

2015 CORN MARKETS & PROFIT PROSPECTS

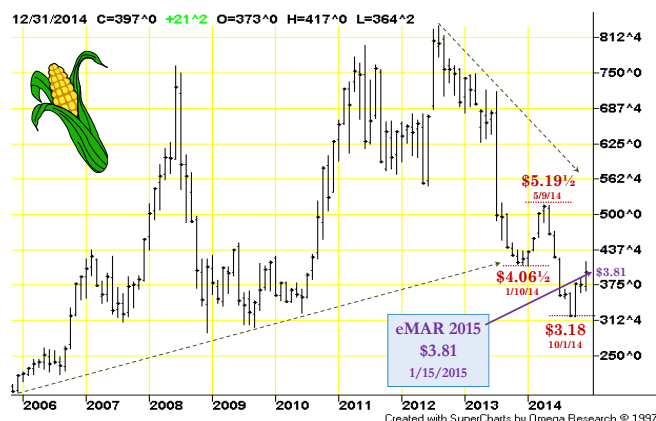
2015 KSU CORN SCHOOL
ATCHISON, KANSAS
JANUARY 16, 2015

Daniel O'Brien, Extension Ag Economist



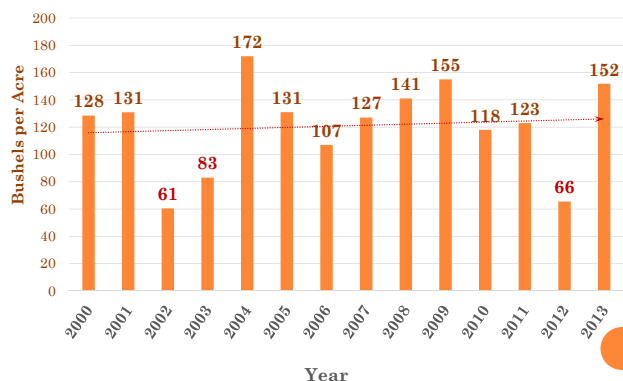
CBOT CORN FUTURES

MONTHLY CHART: NOVEMBER 2005 – DECEMBER 2014 + 1/15/2015



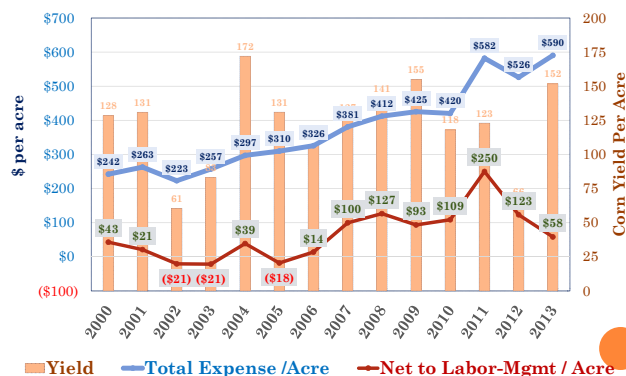
NON-IRRIGATED CORN IN NE KANSAS

KFMA ENTERPRISE YIELDS (2000 – 2013)



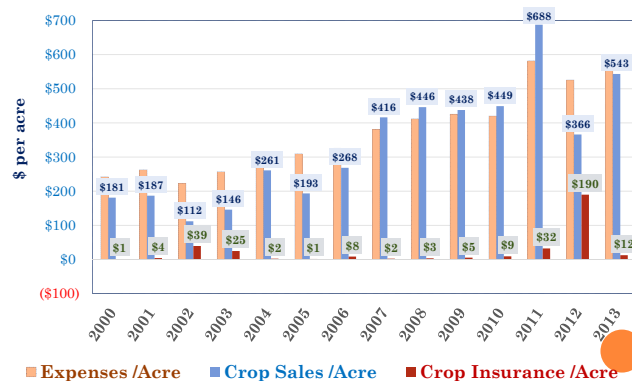
NON-IRRIGATED CORN IN NE KANSAS

KFMA ENTERPRISE YIELDS, COSTS & RETURNS / ACRE



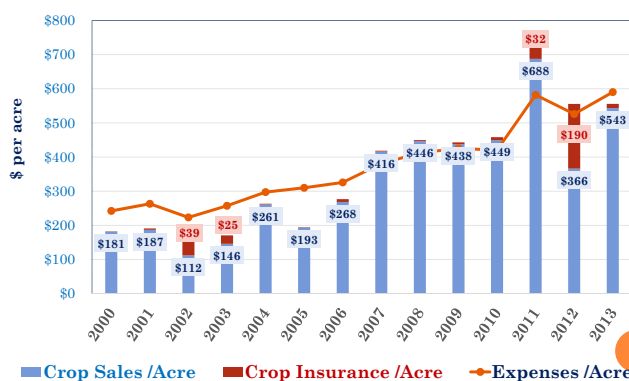
NON-IRRIGATED CORN IN NE KANSAS

KFMA ENTERPRISE COSTS, SALES & INSURANCE / ACRE



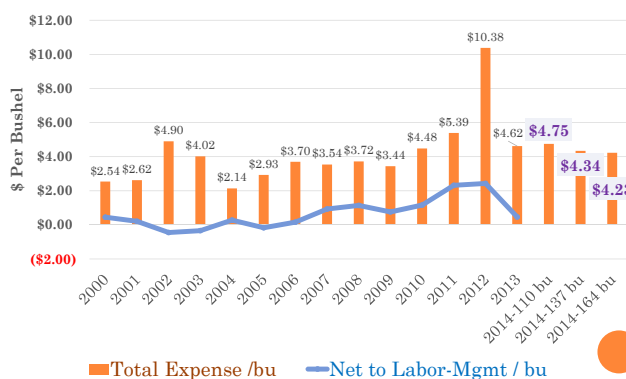
NON-IRRIGATED CORN IN NE KANSAS

KFMA ENTERPRISE COSTS, SALES & INSURANCE / ACRE



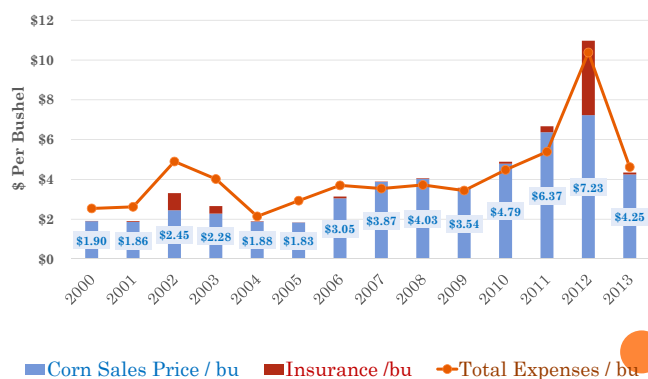
NON-IRRIGATED CORN IN NE KANSAS

KFMA & KSU TOTAL EXPENSES & RETURNS / BUSHEL



NON-IRRIGATED CORN IN NE KANSAS

KFMA & KSU EXPENSES, SALES & INSURANCE / BUSHEL



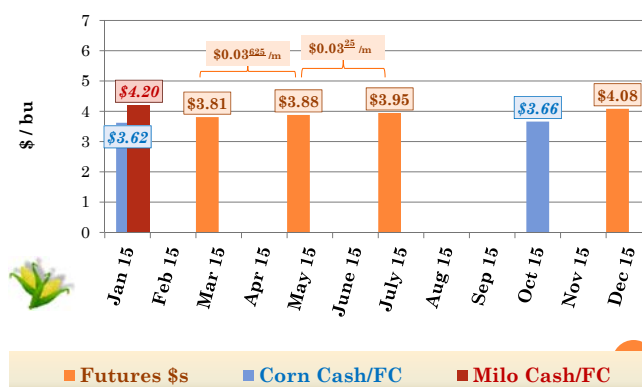
FEED GRAIN MARKET “DRIVERS”

- A large 2014 U.S. corn crop & higher end stocks caused Kansas cash bids to ↓ (\$3.39-\$3.62 /bu)
- **In Question:** Prospects for higher prices from mid-January through Summer & Fall 2015???
- ↑ **World Corn/Coarse Grain** Supplies & Ending Stocks in “new crop” 2014/15

Q2: Will questions about 2015 U.S. corn planted acres & crop development boost prices seasonally in the spring?

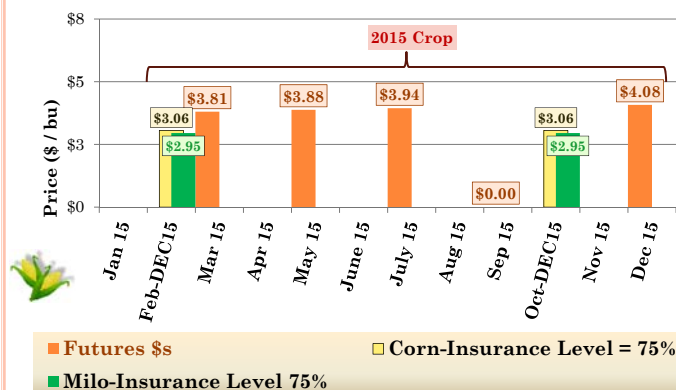
CORN FUTURES - FEEDGRAIN CASH\$

ATCHISON-CASH, LANCASTER-FC^{CN} 1/15/2015



CORN FUTURES & CROP INSURANCE

CROP REVENUE PRICE CALCULATIONS, JANUARY 15, 2015



RMA PRICE DISCOVERY PERIODS FOR 2015 CROPS – PROJECTED PRICES

A. 2015 Kansas Corn

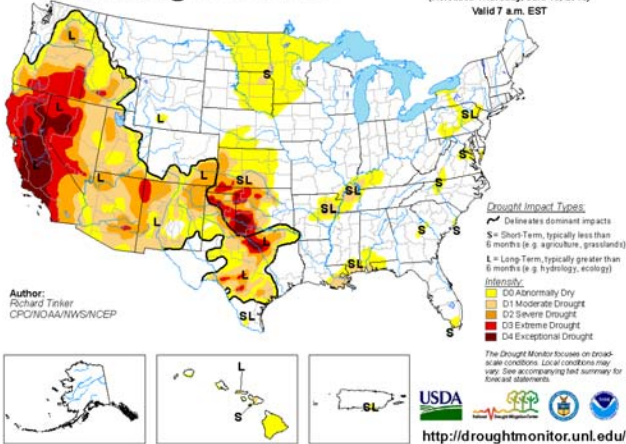
- DEC 2015 CBOT Corn Futures (Currently ≈ \$4.07 ¼ /bu)
 - Projected \$ Discovery Period: 2/1/2015 – 2/28/2015
 - @ 75% APH: Price coverage = 75% x \$4.07 ¼ /bu
- ≈ **\$3.06**

B. 2015 Kansas Grain Sorghum

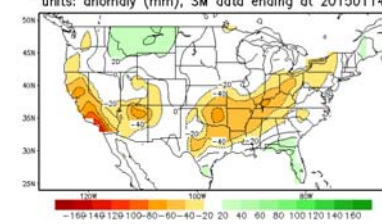
- DEC 2015 CBOT Corn Futures (Currently ≈ \$4.07 ¼ /bu)
 - Projected \$ Discovery Period: 2/1/2015 – 2/28/2015
 - @ 75% APH: Price coverage = 75% x \$4.10 /bu x .9660
- ≈ **\$2.95**

U.S. Drought Monitor

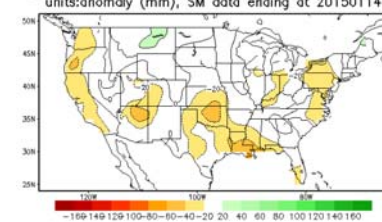
January 13, 2015
(Released Thursday, Jan. 15, 2015)
Valid 7 a.m. EST



Logged Averaged Soil Moisture Outlook for End of FEB2015



Logged Averaged Soil Moisture Outlook for End of APR2015



LIGHT CRUDE OIL (NYMEX FUTURES)

MONTHLY CHART: NOVEMBER 2005 – DECEMBER 2014 + 1/15/2014



U.S. DOLLAR INDEX (ICE FUTURES)

WEEKLY CHART: JANUARY 2013 – JANUARY 15, 2014



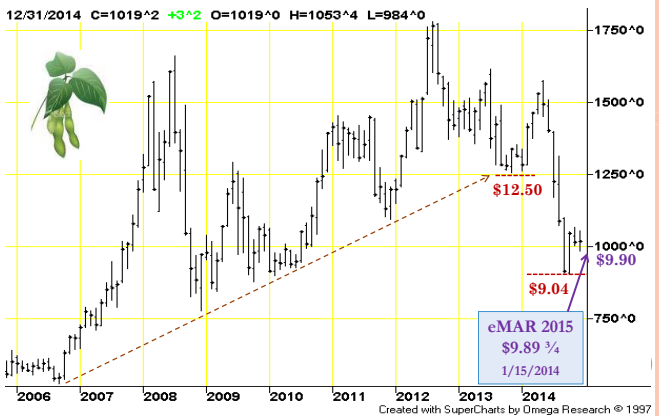
KANSAS CITY WHEAT FUTURES

MONTHLY CHART: NOVEMBER 2005 – DECEMBER 2014 + 1/15/2015



CBOT SOYBEAN FUTURES

WEEKLY CHART: NOVEMBER 2005 – DECEMBER 2014 + 1/15/2015



RMA PRICE DISCOVERY PERIODS FOR 2015 CROPS – PROJECTED PRICES

A. 2015 Kansas HRW Wheat

- JULY 2015 Kansas Wheat Futures (= \$6.30 /bu projected price)
 - Projected \$ Discovery Period: 8/15/2014– 9/15/2014
- Current JULY 2015 Kansas Wheat Futures (= \$5.83 ¼ /bu)
 - Harvest \$ Discovery Period: 6/1/2015– 6/30/2015
- At 75% APH: Price coverage = 75% x \$6.30 /bu = **\$4.72⁵⁰**

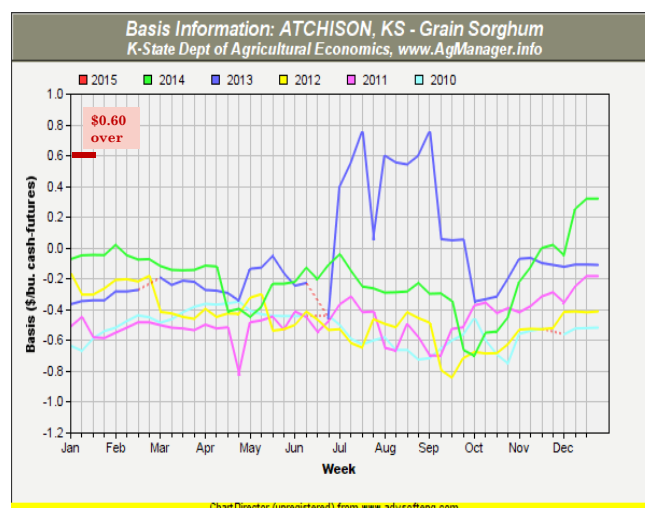
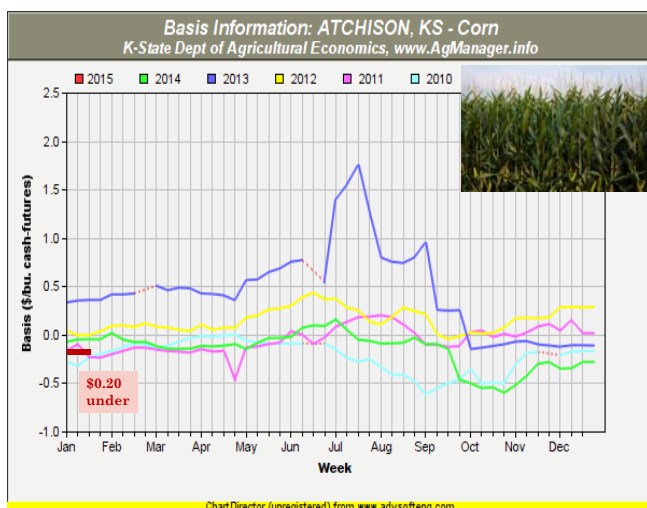
B. 2015 Kansas Soybeans

- NOV 2015 CBOT Soybean Futures (Currently ≈ \$9.74 ¼ /bu)
 - Projected \$ Discovery Period: 2/1/2015 – 2/28/2015
- At 75% APH: Price coverage = 75% x \$9.74 ¼ /bu = **\$7.31**

CORN MARKET

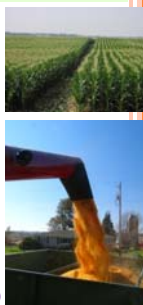


Kansas State University Department of Agricultural Economics

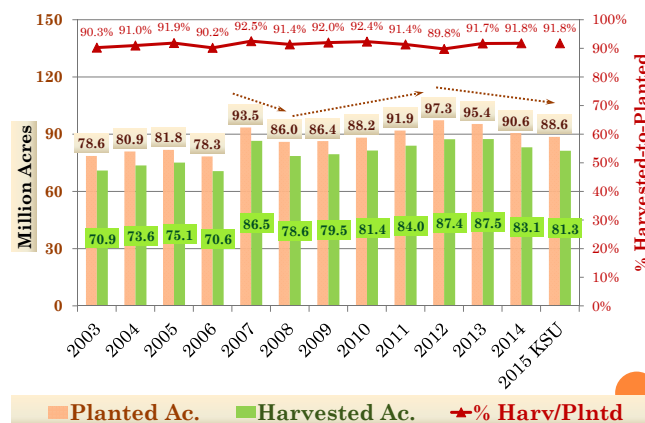


U.S. CORN SUPPLIES

- Planted Area**²⁰¹⁴ = 90.6 mln ac
 - ↓ 2.0 to 88.6 mln ac in 2015? *KSU*
- Harvested Area**²⁰¹⁴ = 83.1 mln ac
 - ↓ 1.8 to 81.3 mln ac in 2015? *KSU*
- Yield**²⁰¹⁴ = 171.0 bu/ac
 - 2015 Trend (1973-2014)= 162.3 bu/ac *KSU*
- Production**²⁰¹⁴ = 14.216 bln bu (record)
 - 2015^{est} = 13.191 bln bu *KSU*
- Total Supply**²⁰¹⁴ = 15.472 bln bu (record)
 - 2015^{est} = 15.093 bln bu *KSU*

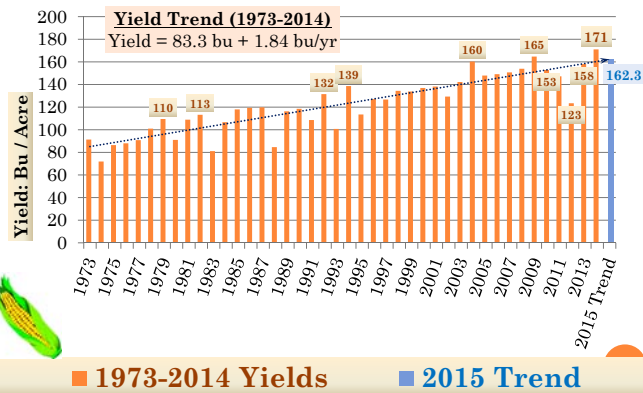


U.S. CORN ACREAGE

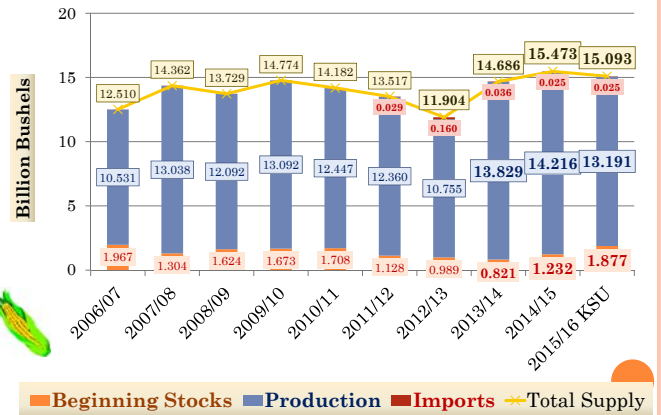


U.S. CORN YIELDS

USDA 2014 = 171.0 BU/AC; 2015 TREND¹⁹⁷³⁻²⁰¹⁴ = 162.3



U.S. CORN TOTAL SUPPLIES

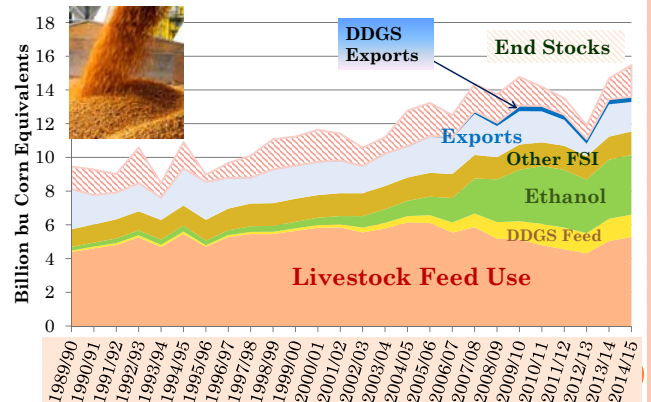


U.S. CORN USE IN 2014/15

- **Ethanol** – 5.175 bln bu. *record!*
 - “Blend wall” / RFS / DDG Exports?
- **Other FSI** – 1.395 bb (↑2%)
- **Exports** – 1.750 bb (↓9%)
 - ↓ vs 1.917 bb in MY 2013/14
- **Feed+Residual** – 5.275 bb (↑3%)
 - ↑ vs 5.134 bb in MY 2013/14
- **Total Use** – 13.595 bb (↑1%) *record!*
 - ↑ vs 13.454 bb in MY 2013/14 (*old record*)

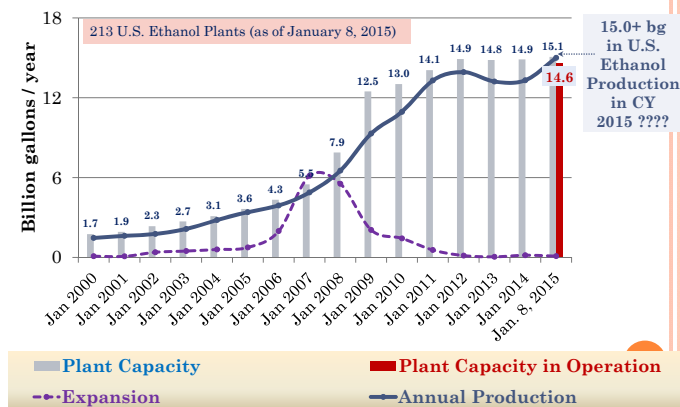


U.S. CORN USE - WITH EST. DDGS #s



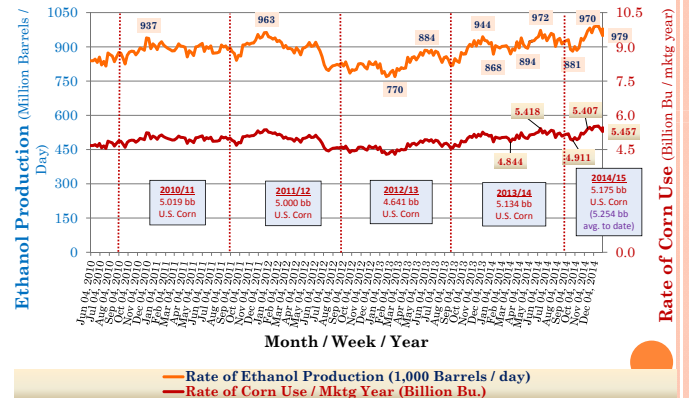
U.S. ETHANOL CAPACITY & PRODUCTION

SOURCE: RENEWABLE FUELS ASSOCIATION AS OF JANUARY 8, 2015



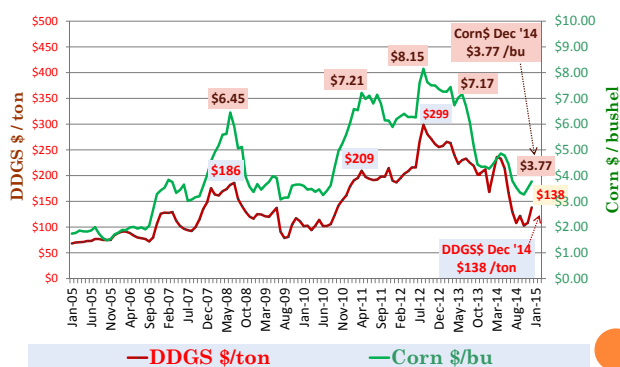
U.S. ETHANOL PRODUCTION & CORN USE

WEEKLY EIA ETHANOL DATA & KSU CORN USE EST'S. (6/4/2010 THRU 1/2/2015)



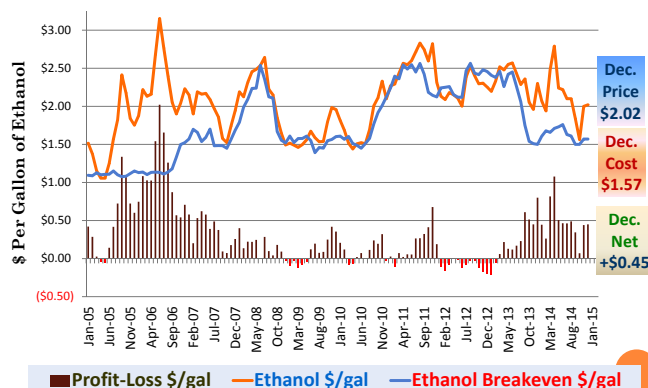
ETHANOL DDGS & CORN PRICES

ISU ETHANOL PLANT MODEL (JANUARY 2005 – DECEMBER 2014)



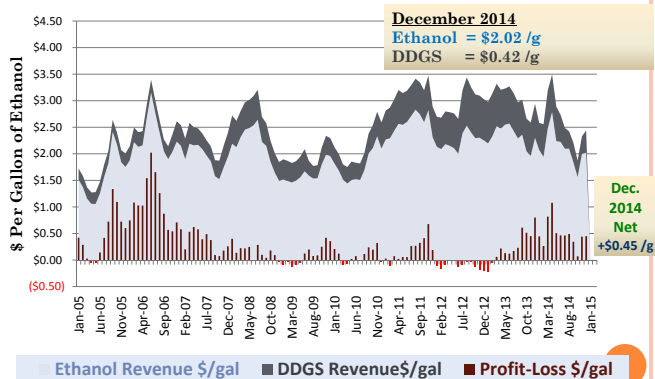
ETHANOL PRICE, COST & PROFITS

ISU ETHANOL PLANT MODEL (JANUARY 2005 – DECEMBER 2014)



ETHANOL REVENUES & NET RETURNS

ISU ETHANOL PLANT MODEL (JANUARY 2005 – DECEMBER 2014)



U.S. CORN SUPPLY-DEMAND

USDA WASDE REPORT: JANUARY 12, 2015

	2012/13	2013/14	2014/15
Planted Ac. (mln.)	97.3	95.4	90.6
Harvested Ac (mln.)	87.4	87.5	83.1
Yield (bu./ac.)	123.1	158.1	171.0
Beginning Stocks	989	821	-4 mb 1,232
Imports	160	36	25
Production	10,755	-96 mb 13,829	-191 mb 14,216
Total Supplies	11,904	-96 mb 14,686	-196 mb 15,472
Ethanol	4,641	5,134	+25 mb 5,175
Other FSI	1,397	1,367	1,395
Exports	730	1,917	1,750
Feed & Residual	4,315	-96 mb 5,036	-100 mb 5,275
Total Use	11,083	-92 mb 13,454	-75 mb 13,595
End Stocks (%S/U)	(7.4%) 821	(9.2%) 1,232	(13.8%) 1,877
U.S. Avg. Farm \$/bu	\$6.89	\$4.46	+\$0.15 \$3.65



U.S. CORN S-D PROJECTIONS

USDA WASDE REPORT (1/12/2015) & KSU ESTIMATES

	2014/15USDA	2014/15KSU	2015/16KSU
Planted Ac. (mln.)	90.6	90.6	-2.0 ma 88.9
Harvested Ac (mln.)	83.1	83.1	-1.8 ma 81.3
Yield (bu./ac.)	171.0	171.0	-8.7 bu 162.3
Beginning Stocks	1,232	1,232	1,877
Imports	25	25	25
Production	14,216	14,216	13,191
Total Supplies	15,472	15,472	15,093
Ethanol	5,175	+0.5% 5,201	5,150
Other FSI	1,395	1,395	1,385
Exports	1,750	+5% 1,838	1,800
Feed & Residual	5,275	5,275	5,275
Total Use	13,595	+0.8% 13,709	13,610
End Stocks (%S/U)	(13.8%) 1,877	(12.9%) 1,763	(10.9%) 1,483
U.S. Avg. Farm \$	\$3.65	+\$0.20 \$3.85	\$4.20

U.S. CORN END STOCKS & %S/U



U.S. SORGHUM SUPPLY-DEMAND

USDA WASDE REPORT: JANUARY 12, 2015

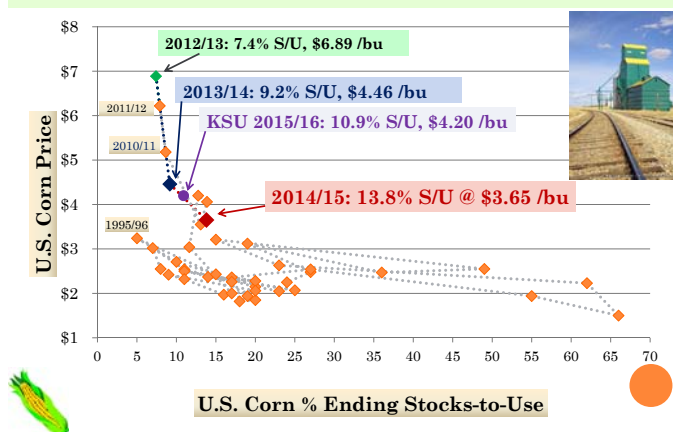
	2012/13	2013/14	2014/15
Planted Ac. (mln.)	6.2	8.1	7.1
Harvested Ac (mln.)	5.0	6.6	6.4
Yield (bu./ac.)	49.6	59.6	67.6
Beginning Stocks	23	15	34
Imports	10	0	0
Production	248	392	+25 mb 433
Total Supplies	280	408	+25 mb 467
Food, Seed, Indust.	95	70	-35 mb 45
Exports	76	212	+40 mb 270
Feed & Residual	94	92	+25 mb 120
Total Use	265	374	+30 mb 435
End Stocks (%S/U)	(5.7%) 15	(9.1%) 34	(7.4%) 32
U.S. Avg. Farm \$	\$6.33	\$4.28	+\$0.30 \$3.80

U.S. CORN %STOCKS/USE VS PRICE\$

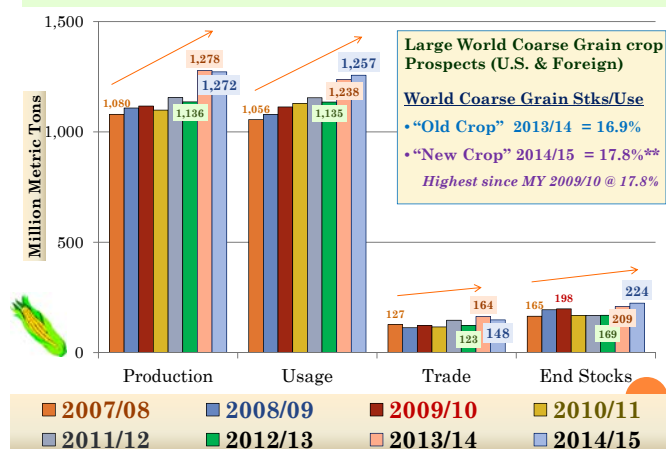


U.S. CORN \$ VS % STOCKS-TO-USE

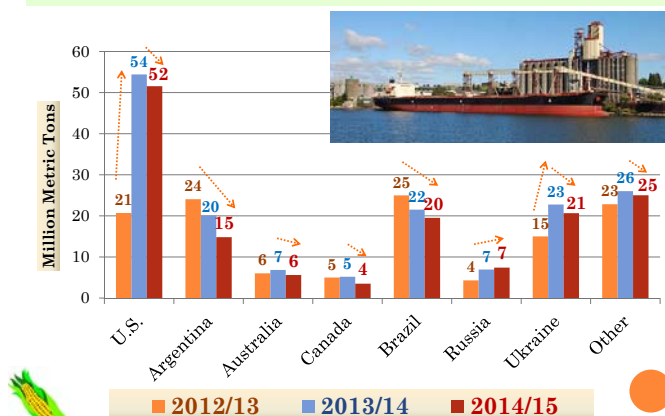
MY 1973/74-2014/15 1/12/2015 USDA REPORTS & KSU FORECAST



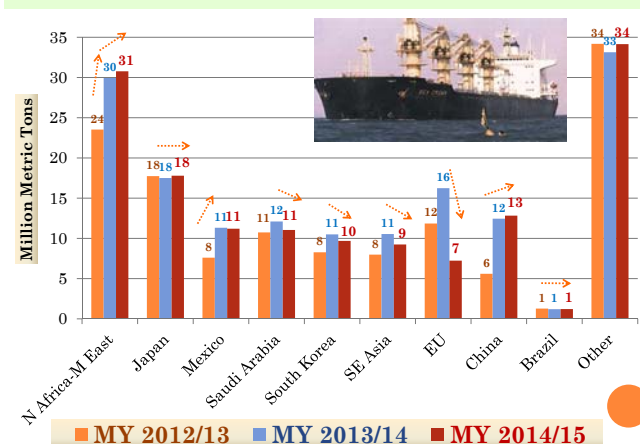
WORLD COARSE GRAIN S-D



COARSE GRAIN EXPORTERS

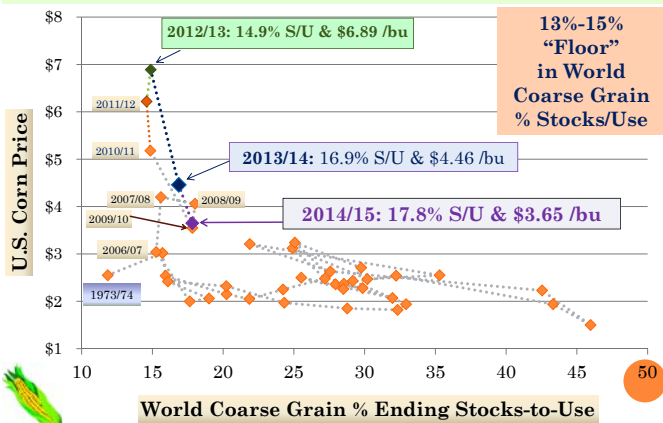


COARSE GRAIN IMPORTERS



U.S. CORN\$ vs WORLD COARSE GRAIN %S/U

MY 1973/74 - 2014/15, JANUARY 12, 2015 USDA WASDE



FEEDGRAIN MARKET PROSPECTS

Large 2014 Crops are here!

- MAR 2015 corn < \$4.00 /bu (\$3.81)



2015 Market Prospects?

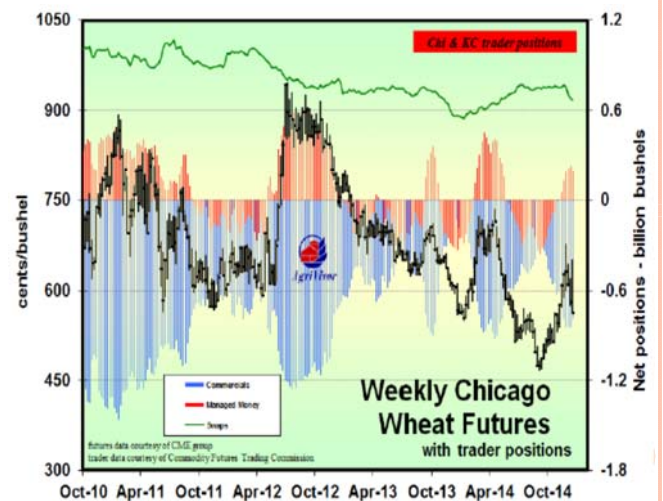
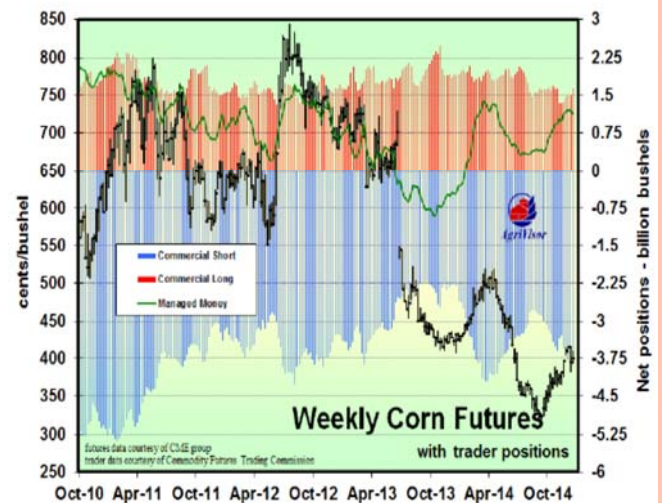
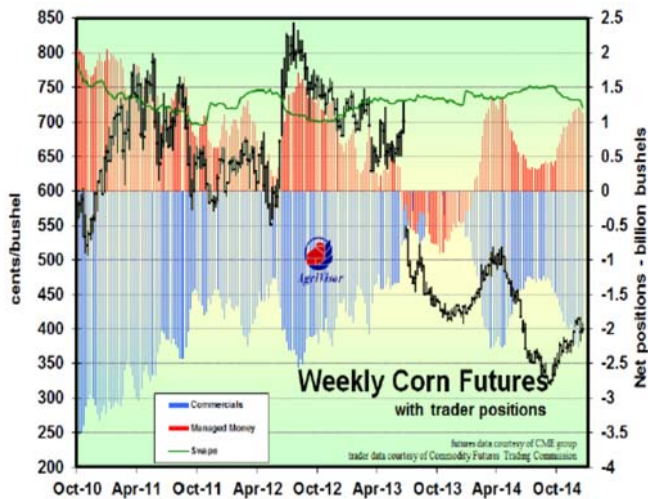
- A "storage-till-Spring" market – holding grain & look for opportunities
- South American Crop Prospects may "drive the market" until Spring 2015



Planted Acres in 2015?

- New Crop Soy/Corn²⁰¹⁵ Ratio = 2.39

⇒ Favors soybeans "slightly"





QUESTIONS?

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