

GRAIN MARKET OUTLOOK FOR 2015

KSU AGECON 420
MARCH 25, 2015

Daniel O'Brien, Extension Ag Economist

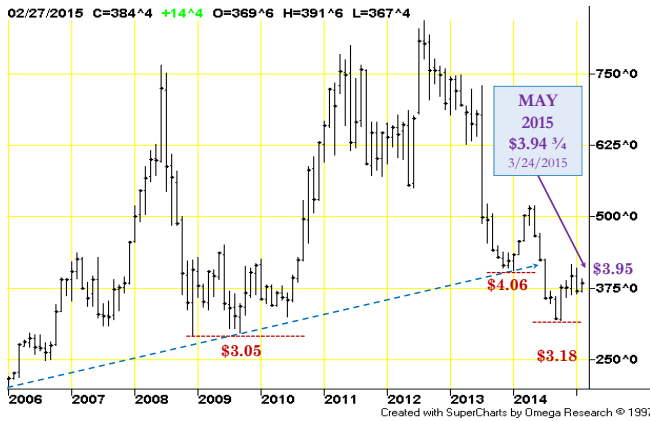


FEEDGRAIN MARKET



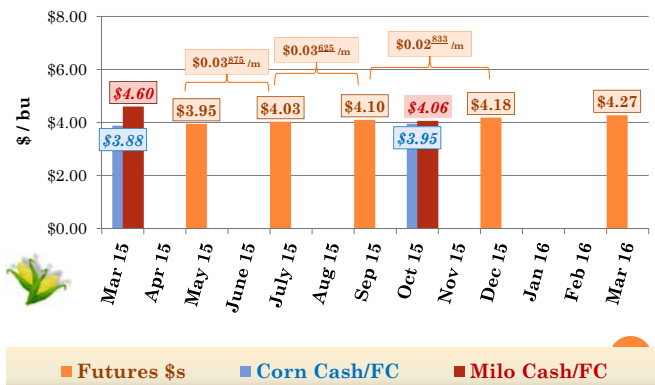
CBOT CORN FUTURES

MONTHLY CHART: JANUARY 2006 – FEBRUARY 2015 + 3/23/2015



CORN FUTURES - FEEDGRAIN CASH\$

HUTCHINSON, KANSAS LOCAL ELEVATORS MARCH 24, 2015



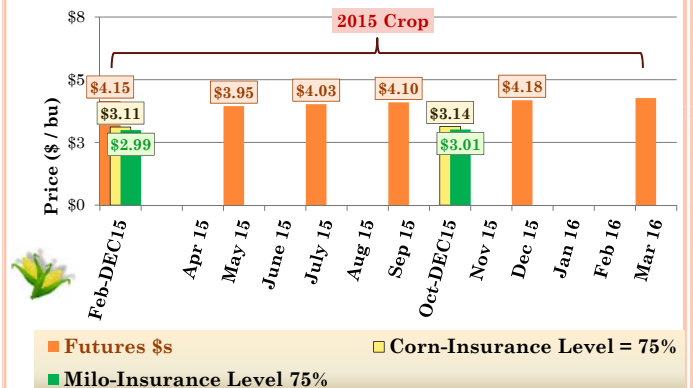
FEED GRAIN MARKET "DRIVERS"

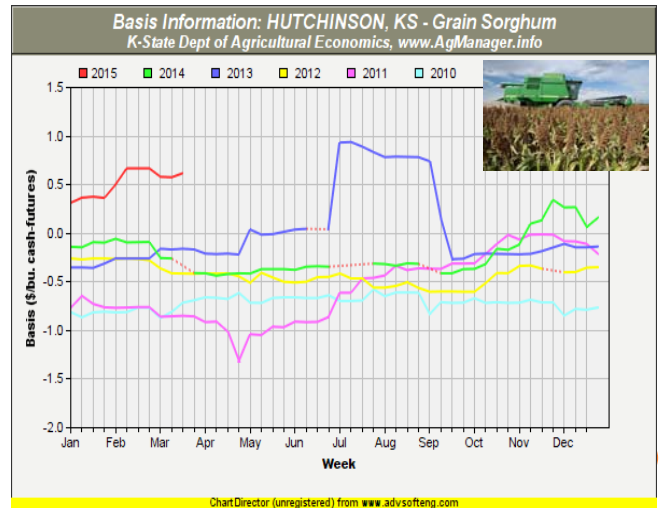
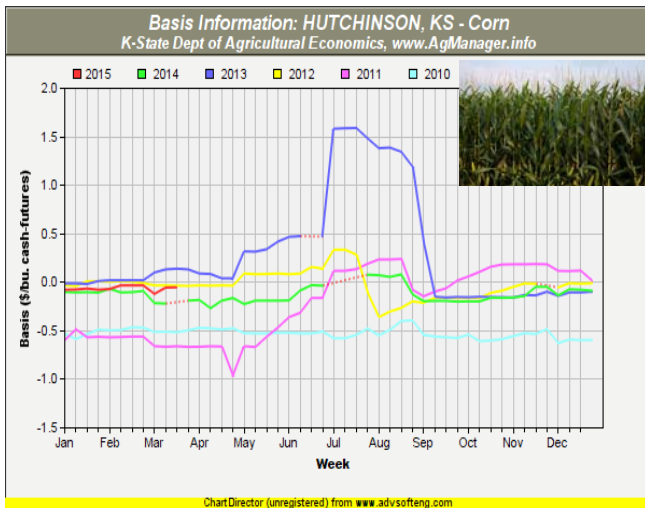


- A large 2014 U.S. corn crop & higher end stocks caused Kansas cash bids to ↓ (\$3.75-\$3.88 /bu)
 - ↑ World Corn/Coarse Grain Supplies & Ending Stocks in "current" 2014/15
 - **In Question:** Prospects for higher prices from late-March through Summer & Fall 2015???
- Q?:** Will questions about 2015 U.S. corn planted acres & crop development boost prices seasonally in the spring-summer period?

CORN FUTURES & CROP INSURANCE

CROP REVENUE PRICE CALCULATIONS, MARCH 23, 2015





U.S. CORN SUPPLY-DEMAND

USDA WASDE REPORT: MARCH 10, 2015 (MILLION BUSHELS)

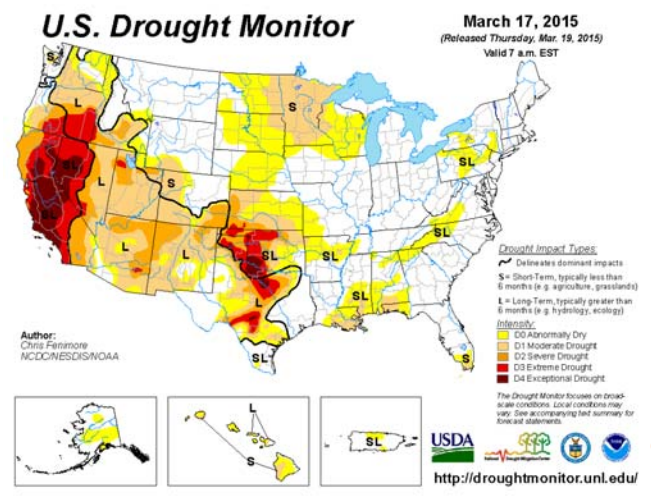
	2012/13	2013/14	2014/15
Planted Ac. (mln.)	97.3	95.4	90.6
Harvested Ac (mln.)	87.4	87.5	83.1
Yield (bu./ac.)	123.4	158.1	171.0
Beginning Stocks	989	821	1,232
Imports	160	36	25
Production	10,755	13,829	14,216
Total Supplies	11,904	14,686	15,472
Ethanol	4,641	5,134	5,200
Other FSI	1,397	1,367	1,395
Exports	730	1,917	1,800
Feed & Residual	4,315	5,036	5,300
Total Use	11,083	13,454	13,695
End Stocks (%S/U)	(7.4%) 821	(9.2%) 1,232	(13.0%) 1,777
U.S. Avg. Farm \$	\$6.89	\$4.46	\$3.50-\$3.90

U.S. CORN 2015/16 FORECASTS

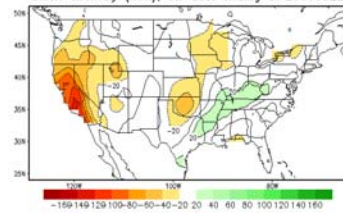
USDA 2015 AG OUTLOOK FORUM FORECASTS & KSU ESTIMATES

	2015/16 ^{USDA}	2015/16 ^{KSU-45%}	2015/16 ^{KSU-55%}
Planted Ac. (mln.)	-1.6 ma 89.0	-2.5 ma 88.1	-2.5 ma 88.1
Harvested Ac (mln.)	-1.6 ma 81.5	-2.4 ma 80.7	-2.4 ma 80.7
Yield (bu./ac.)	-4.2 bu 166.8	-4.2 bu 166.8	-8.7 bu 162.3
Beginning Stocks	1,777	1,777	1,777
Imports	25	25	25
Production	13,595	13,462	13,095
Total Supplies	15,397	15,264	14,897
Ethanol	5,225	5,200	5,150
Other FSI	1,410	1,410	1,410
Exports	1,850	1,800	1,750
Feed & Residual	5,275	5,250	5,200
Total Use	13,760	13,660	13,510
End Stocks (%S/U)	(11.9%) 1,637	(11.7%) 1,604	(10.3%) 1,387
U.S. Avg. Farm \$	\$3.70	\$3.95	\$4.25

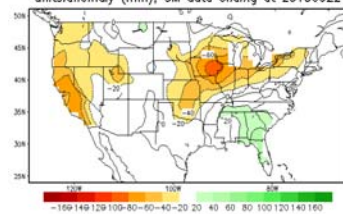
- ### U.S. CORN SUPPLIES: 2014-2015
- Planted Area**²⁰¹⁵ = 88.1^{KSU} (90.0^{USDA}) mln acres
 - vs 90.6 mln ac²⁰¹⁴
 - Harvested Area**²⁰¹⁵ = 80.1^{KSU} (81.5^{USDA}) mln acres
 - vs 83.1 mln ac²⁰¹⁴
 - Yield**²⁰¹⁵ = 162.3^{KSU} (166.8^{USDA}) bu/ac
 - vs 171.0 bu/ac²⁰¹⁴ (record)
 - Production**²⁰¹⁵ = 13.1^{KSU} (13.6^{USDA}) bln bu
 - vs 14.216 bln bu²⁰¹⁴ (record)
 - Total Supply**²⁰¹⁵ = 14.9^{KSU} (15.4^{USDA}) bln bu
 - vs 15.472 bln bu²⁰¹⁴ (record)



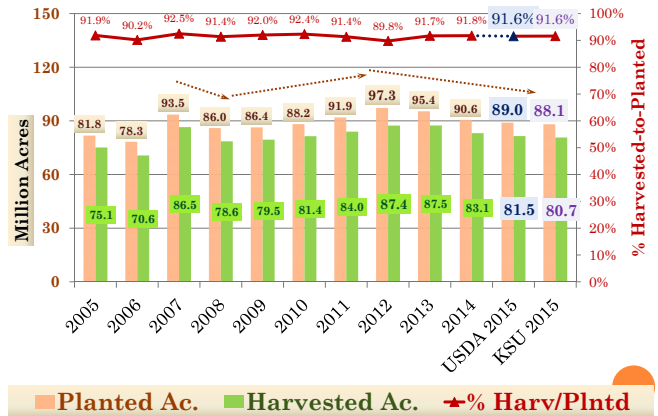
Lagged Averaged Soil Moisture Outlook for End of APR2015
units: anomaly (mm), SM data ending at 20150322



Lagged Averaged Soil Moisture Outlook for End of JUN2015
units: anomaly (mm), SM data ending at 20150322

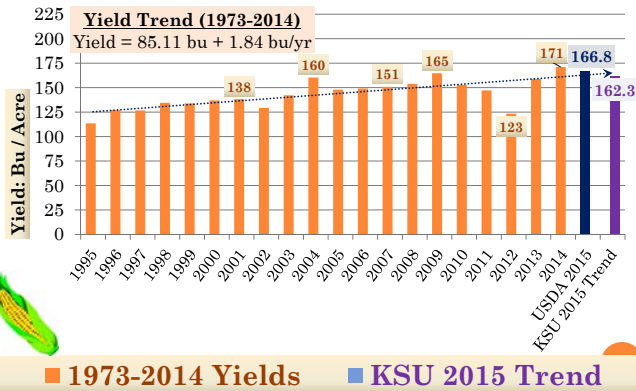


U.S. CORN ACREAGE

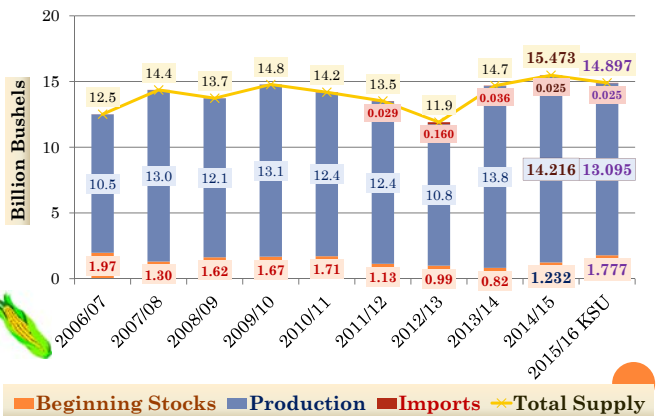


U.S. CORN YIELDS

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



U.S. CORN TOTAL SUPPLIES

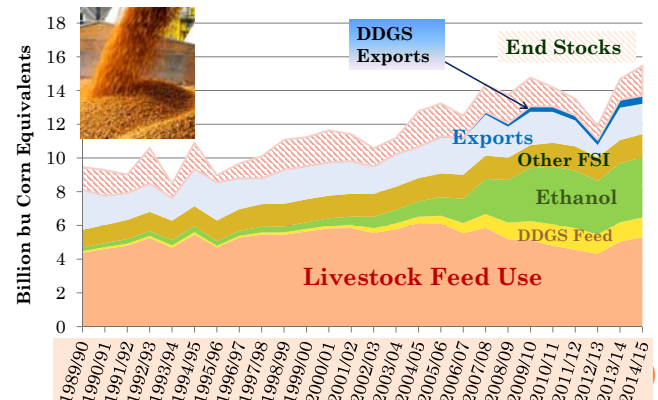


U.S. CORN USE IN MY 2014/15

- **Ethanol** – 5.200 bln bu. (1.3%↑)
 - “Blend wall” / RFS / Exports?
- **Other FSI** – 1.395 bb (↑2%)
- **Exports** – 1.800 bb (↓6%)
 - ↓ vs 1.917 bb in MY 2013/14
- **Feed+Residual** – 5.300 bb (↑5%)
 - ↑ vs 5.036 bb in MY 2013/14
- **Total Use** – 13.695 bb (↑2%)
 - ↑ vs 13.454 bb in MY 2013/14 (old record)



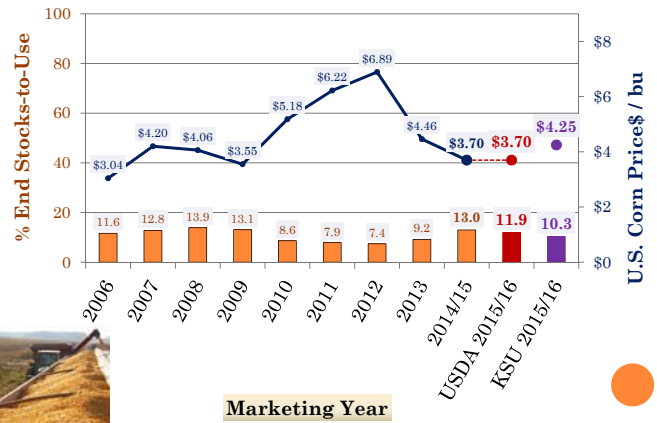
U.S. CORN USE - WITH EST. DDGS #S



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

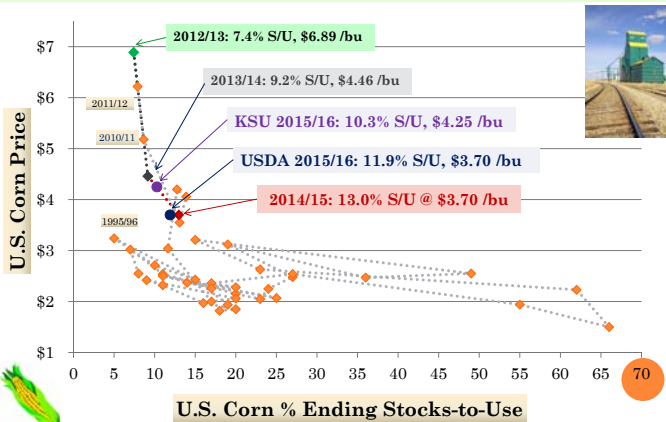


U.S. CORN %STOCKS/USE VS PRICE\$



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

MY 1973/74-2015/16 MARCH 10, 2014 USDA REPORTS & KSU FORECAST



U.S. SORGHUM SUPPLY-DEMAND

USDA WASDE REPORT: MARCH 10, 2015

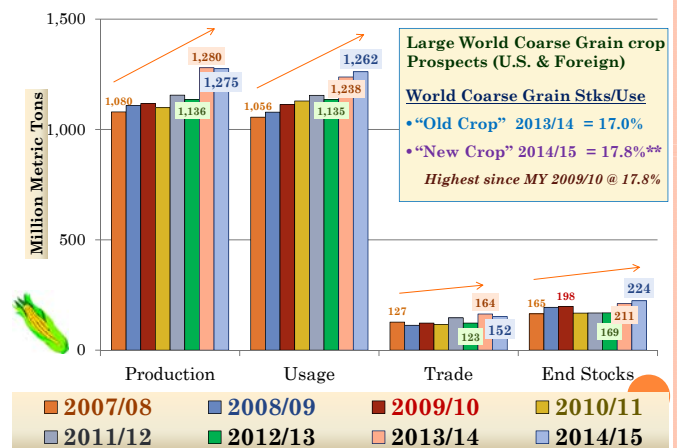
	2012/13	2013/14	2014/15
Planted Ac. (mln.)	6.3	8.1	7.1
Harvested Ac (mln.)	5.0	6.6	6.4
Yield (bu./ac.)	49.6	59.6	67.6
Beginning Stocks	23	15	34
Imports	10	0	0
Production	248	392	433
Total Supplies	280	408	467
Food, Seed, Indust.	95	70	30
Exports	76	212	300
Feed & Residual	94	92	110
Total Use	265	374	440
End Stocks (%S/U)	(5.7%) 15	(9.1%) 34	(6.1%) 27
U.S. Avg. Farm \$	\$6.33	\$4.28	\$3.70-\$4.10

U.S. SORGHUM 2015/16 FORECASTS

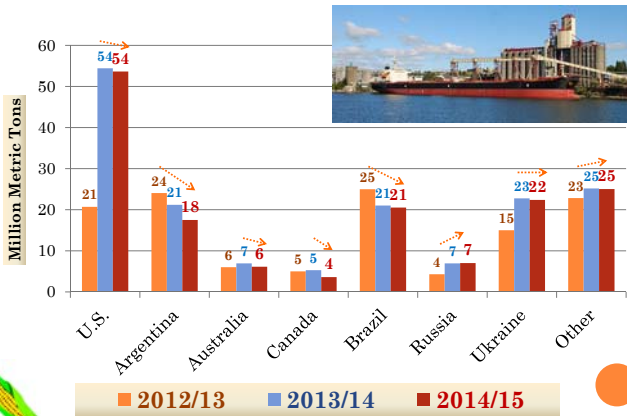
USDA 2015 AG OUTLOOK FORUM FORECASTS & KSU ESTIMATES

	2015/16 KSU-A	2015/16 KSU-B
Planted Ac. (mln.)	+928K 8.061	+1,162K 8.300
Harvested Ac (mln.)	+317K 6.718	+505K 6.906
Yield (bu./ac.)	-1.6 bu 66.0	-1.6 bu 66.0
Beginning Stocks	27	27
Imports	0	0
Production	443	456
Total Supplies	470	483
Food, Seed, & Industrial	30	30
Exports	300	310
Feed & Residual	100	100
Total Use	430	440
End Stocks (%S/U)	(9.3%) 40	(9.7%) 43
U.S. Avg. Farm \$	\$4.25	\$4.15

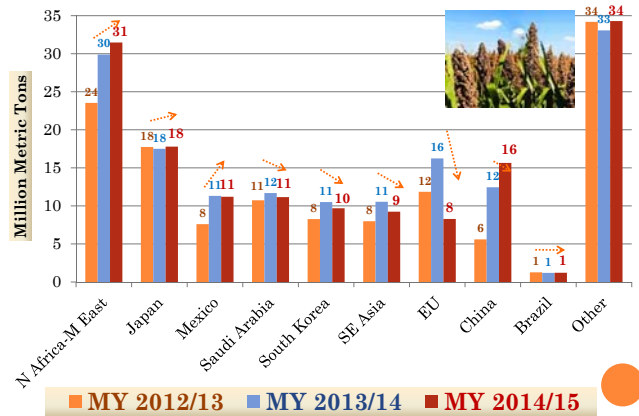
WORLD COARSE GRAIN S-D



COARSE GRAIN EXPORTERS

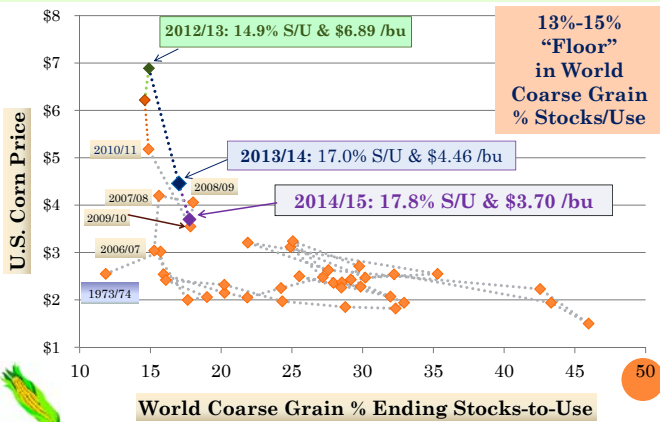


COARSE GRAIN IMPORTERS



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

MY 1973/74 - 2014/15 MARCH 10, 2015 USDA WASDE



FEEDGRAIN MARKET PROSPECTS

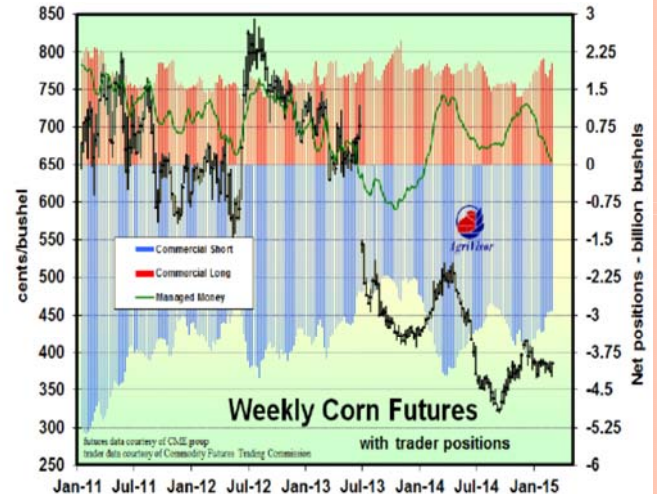
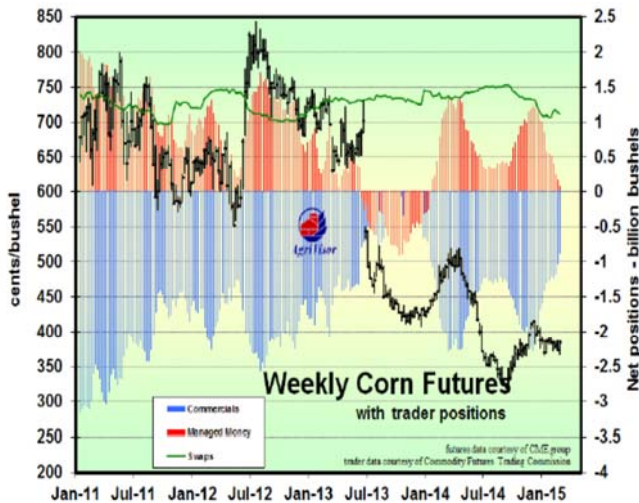
Spring-Summer 2015 Feedgrain Market Prospects?

- A "storage-till-Spring" market – holding grain & look for opportunities
- U.S. seems "at risk" to dry crop conditions in the summer of 2015

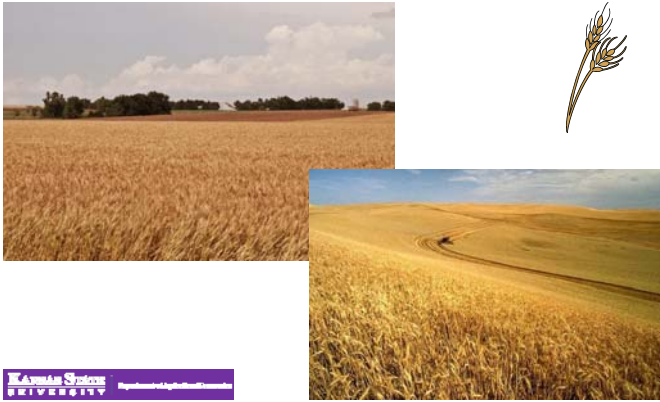
Uncertain U.S. Crops in 2015

- 2015 Corn & Sorghum Planted Acres?
- DEC 2015 corn ≈ \$4.15 /bu (FC ≈ \$4.00)

Will U.S. Grain Sorghum Exports Remain Strong through fall 2015?



WHEAT MARKET



Kansas State University Department of Agricultural Economics

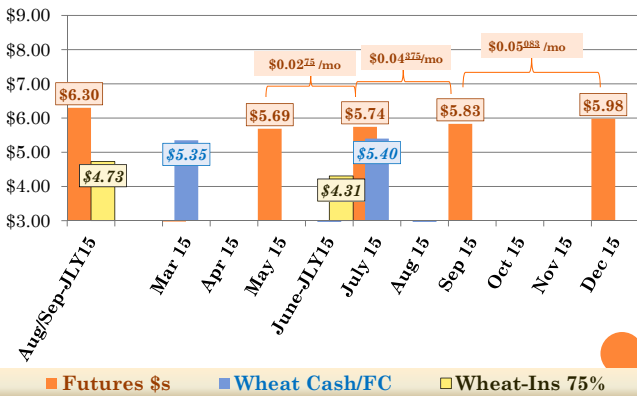
KANSAS CITY WHEAT FUTURES

MONTHLY CHART: JANUARY 2006 – FEBRUARY 2015 + 3/24/2015



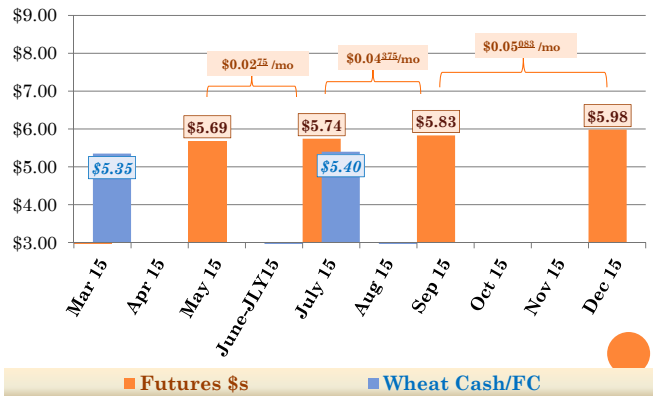
KS WHEAT FUTURES & CASH\$

HUTCHINSON, KANSAS CASH, FC & INSURANCE \$'S, MARCH 24, 2015



KS WHEAT FUTURES & CASH\$

HUTCHINSON, KANSAS CASH, FC \$'S, MARCH 24, 2015



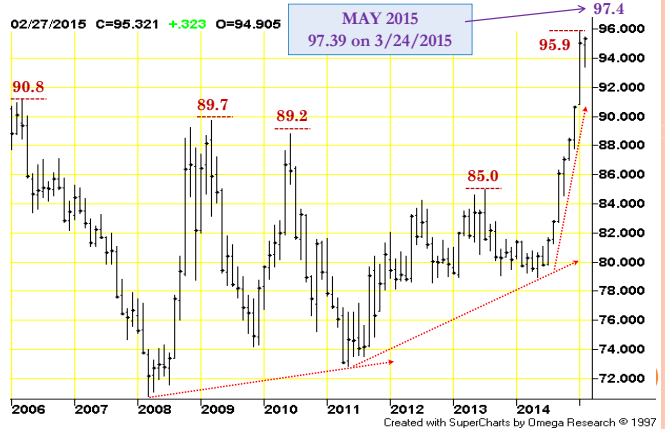
WHEAT MARKET "DRIVERS"

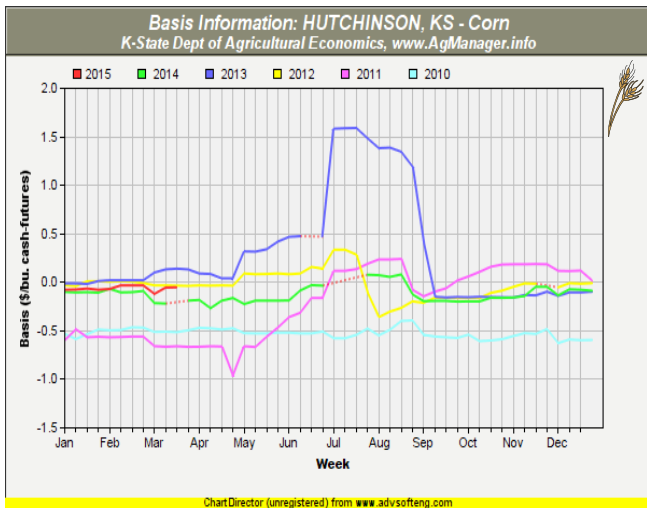
- Growing "new crop" MY 2014/15 [World wheat supplies](#) & [end stocks](#) have caused cash prices to decline (\$5.31-\$5.55 /bu in Hutchinson, KS area)
- **U.S. Issues:** 2015 winter & spring wheat crops, weak exports, & lower wheat feeding
- **World Issues:** Growing Supplies & Stocks
→ Will a surprise "disruption" happen in 2015/16?

Q?: Will the USD\$↑ trend continue, causing lower U.S. wheat exports?

U.S. DOLLAR INDEX (ICE FUTURES)

MONTHLY CHART: JANUARY 2006 – FEBRUARY 2015 + 3/24/2015





U.S. WHEAT SUPPLY-DEMAND

MARCH 2015

	2012/13	2013/14	2014/15
Planted Acres (mln.)	55.3	56.2	56.8
Harvested Ac. (mln.)	48.8	45.3	46.4
Yield (bu./ac.)	46.2	47.1	43.7
Beginning Stocks	743	718	590
Production	2,252	2,135	2,026
Imports	123	169	160
Total Supplies	3,118	3,021	2,776
Food & Seed	1,018	1,029	1,035
Exports	1,012	1,176	900
Feed & Residual	370	226	150
Total Use	2,400	2,431	2,085
End Stocks (%S/U)	(29.9%) 718	(24.3%) 590	(33.1%) 691
U.S. Ave. Farm \$	\$7.77	\$6.87	\$5.90-\$6.10

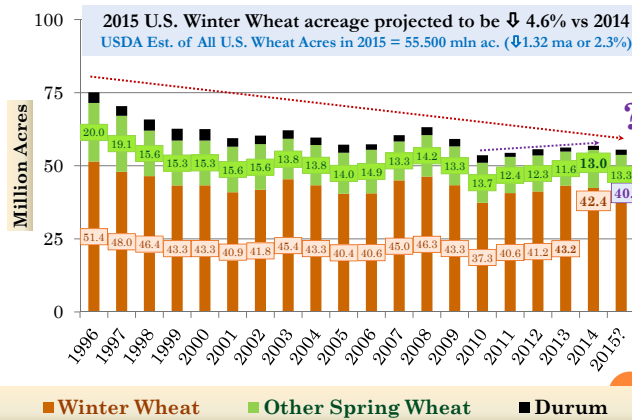
U.S. WHEAT MY 2015/16 FORECASTS

	USDA MY 2015/16	KSU 2015/16 Trend Yield-60%	KSU 2015/16 Low Yield-40%
Planted Ac. (mln.)	55.5	55.5	55.5
Harvested Ac. (mln.)	47.0	46.7	46.7
Yield (bu./ac.)	45.2	45.9	43.5
Beginning Stocks	691	691	691
Production	2,125	2,142	2,030
Imports	150	150	155
Total Supplies	2,966	2,983	2,876
Food & Seed Use	1,039	1,039	1,039
Exports** (Wildcard!)	975	1,050	1,025
Feed & Residual	190	165	160
Total Use	2,204	2,254	2,224
End Stocks (%S/U)	(34.6%) 762	(32.3%) 769	(29.3%) 519
U.S. Avg. Farm \$	\$5.10	\$5.75	\$6.25

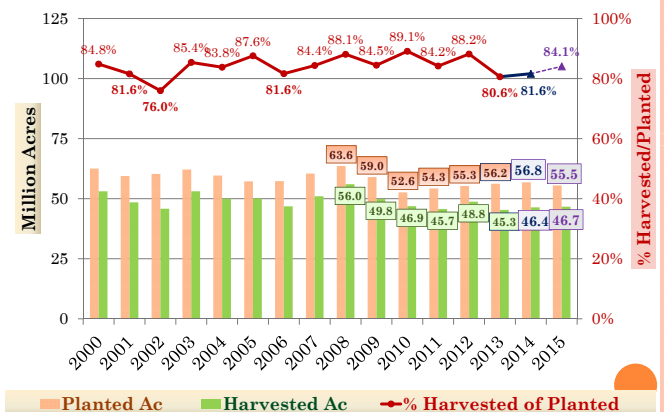
U.S. WHEAT SUPPLIES IN 2015/16

- **Planted Area**²⁰¹⁵ = 55.5^{USDA} mln acres
 - vs 56.8 mln ac²⁰¹⁴
- **Harvested Area**²⁰¹⁵ = 46.7^{KSU} (47.0^{USDA}) mln acres
 - vs 46.4 mln ac²⁰¹⁴
- **Yield**²⁰¹⁵ = 43.5 - 45.9^{KSU} (45.2^{USDA}) bu/ac
 - vs 43.7 bu/ac²⁰¹⁴
- **Production**²⁰¹⁵ = 2.0-2.14^{KSU} (2.125^{USDA}) bln bu
 - vs 2.026 bln bu²⁰¹⁴
- **Total Supply**²⁰¹⁵ = 2.9-3.0^{KSU} (3.0^{USDA}) bln bu
 - vs 2.776 bln bu²⁰¹⁴

U.S. WHEAT SEEDING ACREAGE

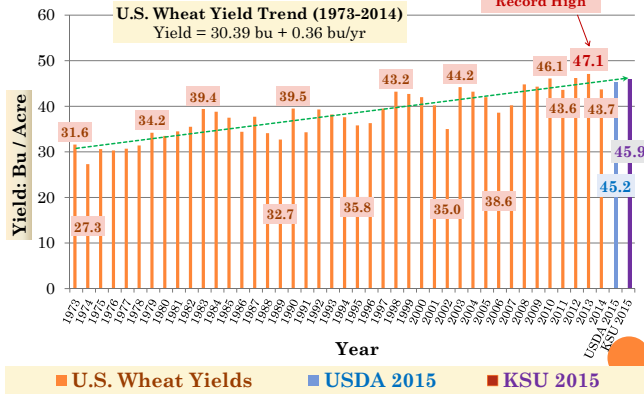


U.S. WHEAT ACREAGE



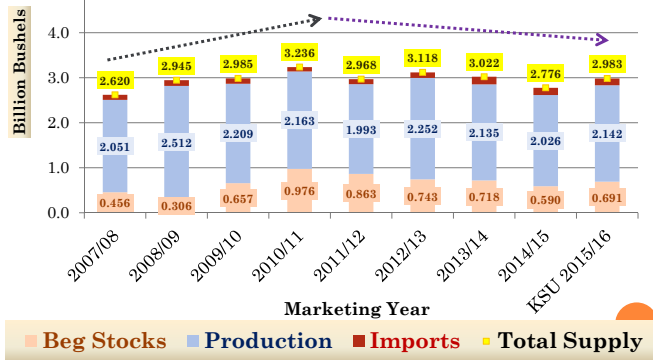
U.S. WHEAT YIELDS

U.S. 2014 = 43.7 BU/AC USDA²⁰¹⁵ = 45.2 KSU²⁰¹⁵ = 45.9



U.S. WHEAT TOTAL SUPPLIES

U.S. Total Supply of wheat in MY 2014/15 of 2.776 bb is lowest amount since MY 2007/08 (2.620 bb), i.e., in 7 years

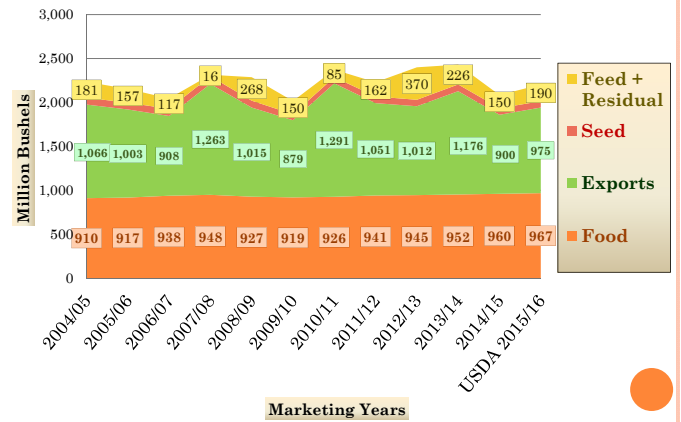


2014/15 U.S. WHEAT USE

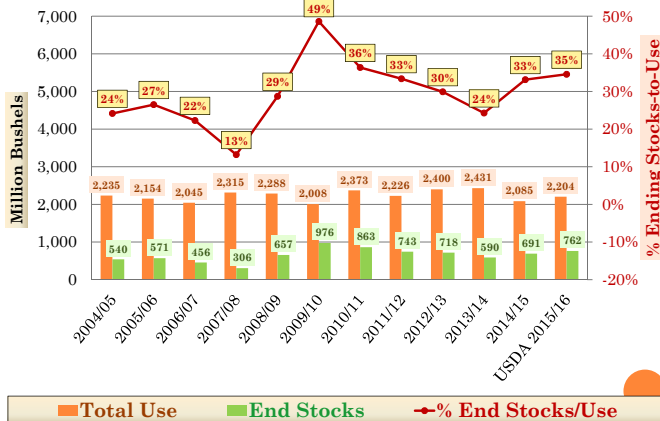
- Food Use** – 960 Million bu. (↑0.8%)
 - Driven by population & milling quality
- Exports** – 900 mln bu. (↓23%)
 - Strong World competition, ↑ USD\$
- Feed+Residual** – 150 mb (↓34%)
 - ↓ versus last 2 years (↑ feedgrains)
- Total Use** – 2.085 Billion bu. (↓14%)
 - ↓ 315-346 mln bu./year vs last 2 yrs



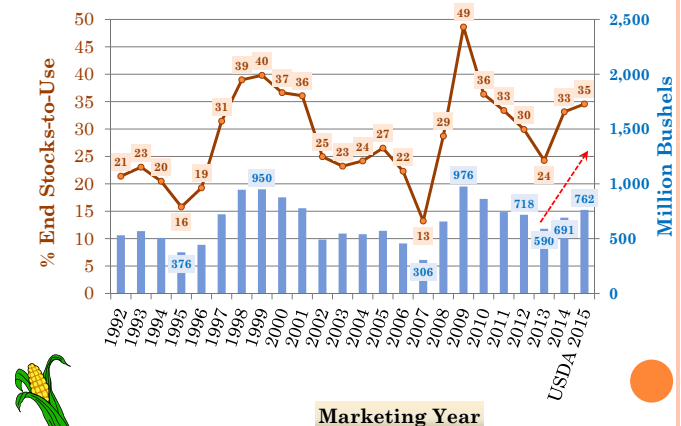
U.S. WHEAT USE SINCE MY 2004/05



U.S. WHEAT USE & END STOCKS



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

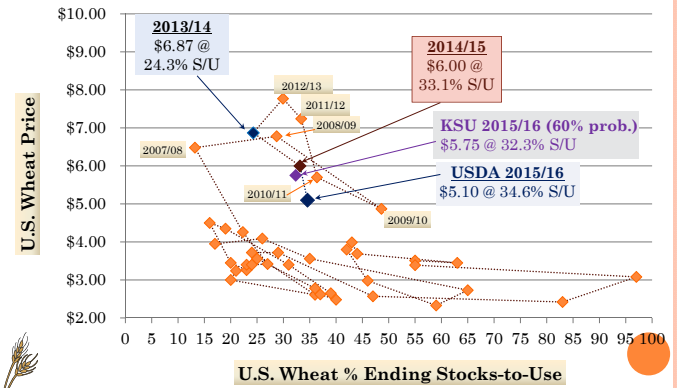


U.S. WHEAT % STX/USE VS PRICE\$

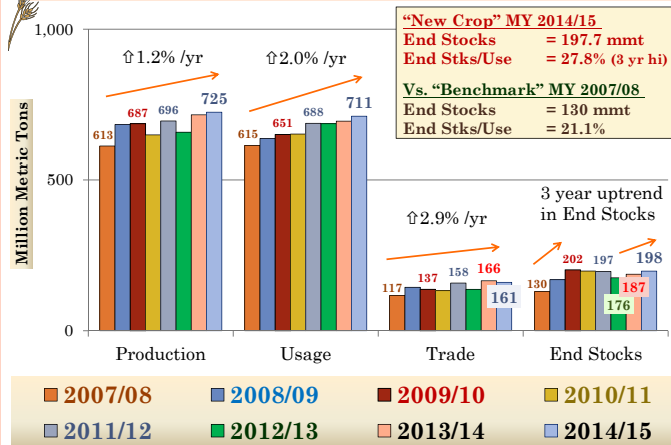


Marketing Year

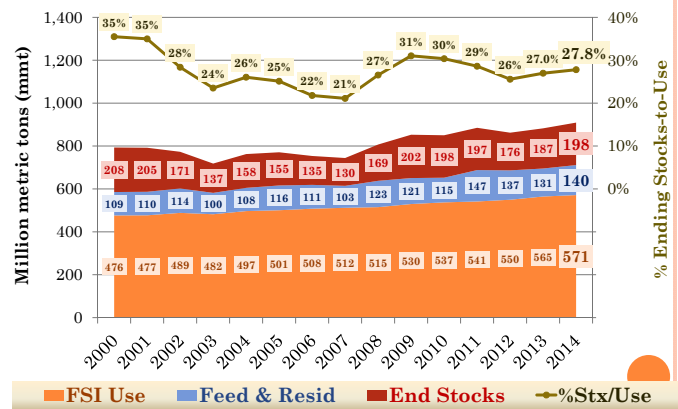
U.S. WHEAT \$ VS U.S. STOCKS-TO-USE MY 1973/74 – “NEXT CROP” MY 2015/16



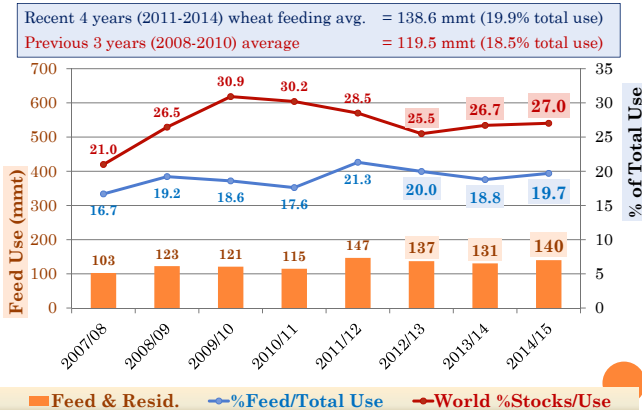
WORLD WHEAT SUPPLY-DEMAND



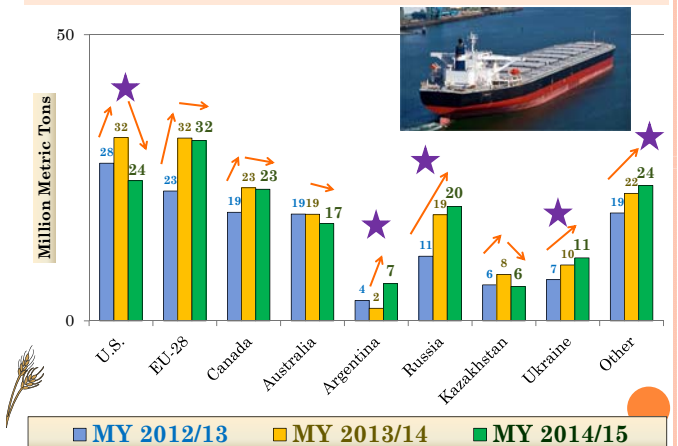
WORLD WHEAT SUPPLY-DEMAND



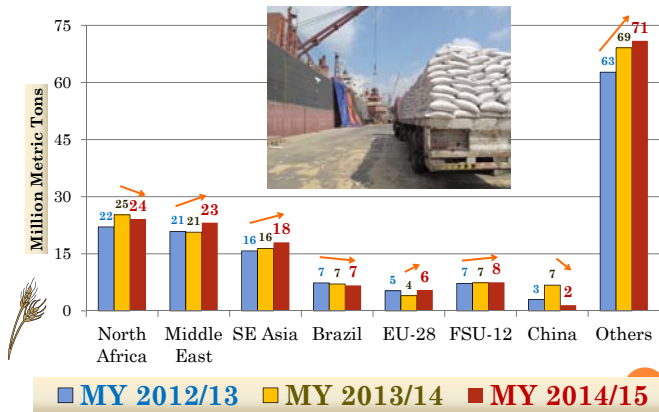
WORLD WHEAT FEED USE



WORLD WHEAT EXPORTS

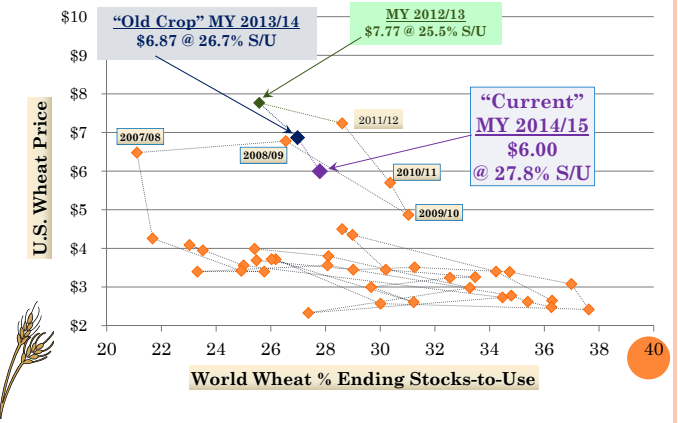


WORLD WHEAT IMPORTS



U.S. WHEAT \$ VS WORLD %STKS/USE

MY 1973/74 – “CURRENT CROP” 2014/15



WHEAT MARKET PROSPECTS

2015 U.S. Winter Wheat Crop?

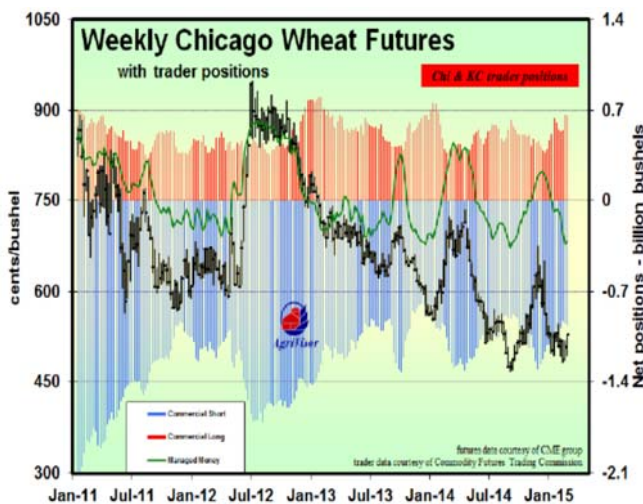
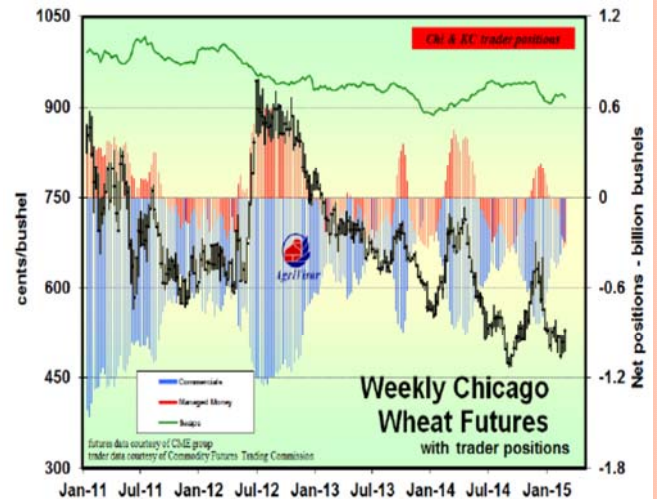
- Assessing winter freeze damage?
- Prospects for successful crops in the U.S. Central & Southern Plains ???

Risk to World Wheat Exporters' Crops in 2014/15

- “Unanticipated” wheat crop problems that MAY & OFTEN DO occur in major World wheat producing countries

Risk of Geopolitical Conflicts

- Black Sea, Middle East....

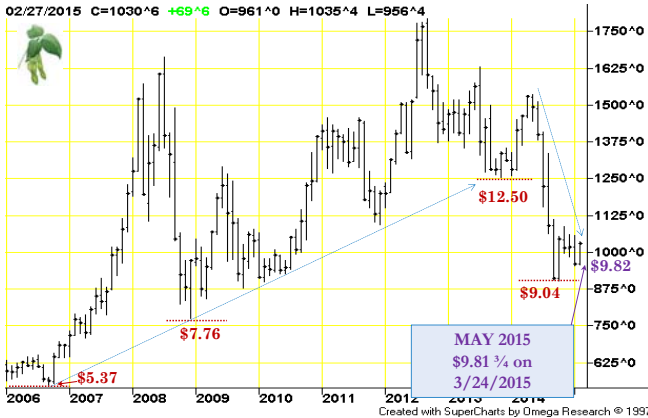


SOYBEAN MARKETS



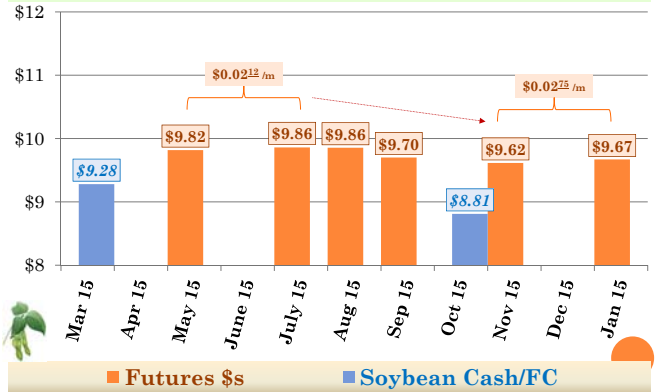
CBOT SOYBEAN FUTURES

WEEKLY CHART: DECEMBER 2005 – JANUARY 2015 + 3/24/2015



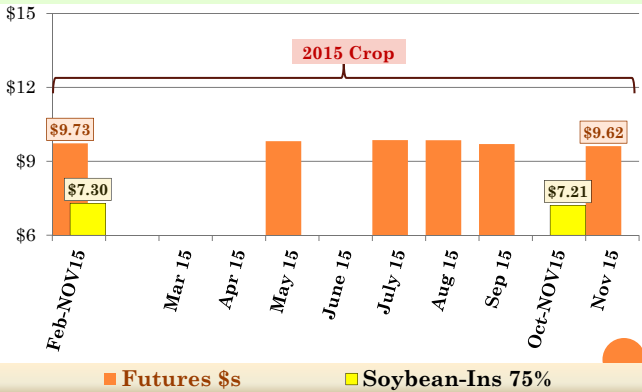
SOYBEAN FUTURES & CASH\$

HUTCHINSON, KANSAS CASH & FC PRICES\$, MARCH 24, 2015



SOYBEAN FUTURES & CROP INSURANCE PRICES

3/23/2015

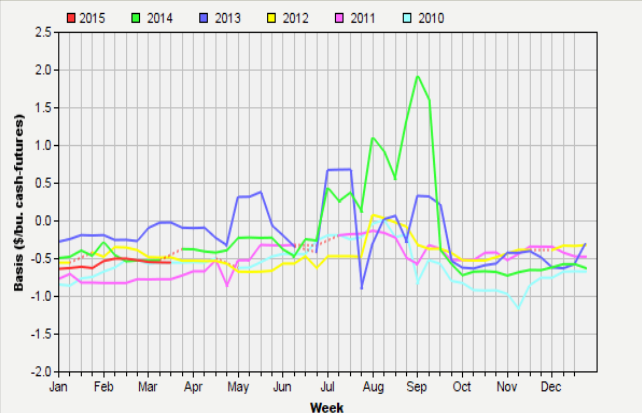


SOYBEAN MARKET "DRIVERS"

- With a record large 2014 U.S. soybean crop, cash prices have ↓'d to \$9.25-\$9.36 (Hutchinson, KS)
 - New crop 2015 bids = \$8.76-\$9.13 /bu
- **World Issues:** Record 2015 South American crop but with some drought problems (may ↓ in size)
- **U.S. Issues:** Corn vs Soybeans 2015 planted acres ⇒ "Next Crop" MY 2015/16 yield, supply-demand & prices???

Q?: In 2015 will the soybean crops in either South America or the U.S. fall "short" of expectations & boost prices?

Basis Information: HUTCHINSON, KS - Soybeans
K-State Dept of Agricultural Economics, www.AgManager.info



U.S. SOYBEAN SUPPLY-DEMAND

USDA WASDE REPORT – MARCH 10, 2015

	2012/13	2013/14	2014/15
Planted Acres (mn.)	77.2	76.8	83.7
Harvested Acres (mn.)	76.1	76.3	83.1
Yield (bu./ac.)	40.0	44.0	47.8
Beginning Stocks	169	141	92
Imports	41	72	25
Production	3,042	3,358	3,969
Total Supplies	3,252	3,570	4,086
Crushings	1,689	1,734	1,795
Exports	1,317	1,647	1,790
Seed & Residual	105	97	116
Total Use	3,111	3,478	3,701
Ending Stocks	(4.5%) 141	(2.7%) 92	(10.4%) 385
U.S. Avg. Farm \$	\$14.40	\$13.00	\$9.45-\$10.95

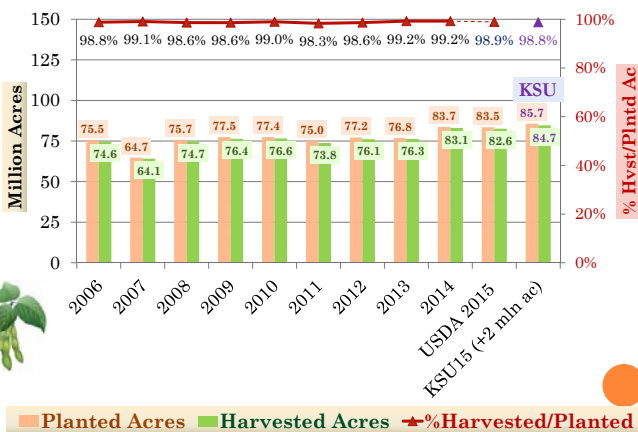
U.S. SOYBEAN 2015/16 FORECASTS

	2015/16 ^{USDA}	2015/16 ^{KSU} No Chg Acres	2015/16 ^{KSU} +2 mln Acres
Planted Acres (mln.)	-0.2 83.5	No Chg. 83.7	+2.0 85.7
Harvested Ac. (mln.)	-0.5 82.6	-0.4 82.7	+1.6 84.7
Yield (bu./ac.)	-1.8 46.0	-2.6 45.1	-2.6 45.1
Beginning Stocks	385	385	385
Imports	20	15	15
Production	3,958	3,958	3,895
Total Supplies	4,205	4,1295	4,218
Crushings	1,840	1,820	1,835
Exports *Wildcard*	1,820	1,800	1,815
Seed & Residual	106	110	110
Total Use	3,775	3,730	3,760
Ending Stocks	(11.4%) 430	(10.7%) 399	(12.2%) 458
U.S. Avg. Farm \$	\$9.00	\$10.10	\$9.60

U.S. SOYBEAN SUPPLIES: 2014-2015

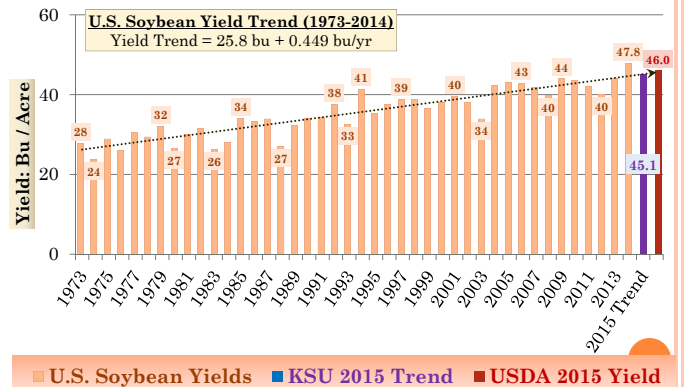
- **Planted Area**²⁰¹⁵ = 85.7^{KSU} (83.5^{USDA}) mln acres
 - vs 83.7 mln ac²⁰¹⁴ (record)
- **Harvested Area**²⁰¹⁵ = 84.7^{KSU} (82.6^{USDA}) mln acres
 - vs 83.1 mln ac²⁰¹⁴ (record)
- **Yield**²⁰¹⁵ = 45.1^{KSU} (46.0^{USDA}) bu/ac
 - vs 47.8 bu/ac²⁰¹⁴ (record)
- **Production**²⁰¹⁵ = 3.818^{KSU} (3.800^{USDA}) bln bu
 - vs 3.969 bln bu²⁰¹⁴ (record)
- **Total Supply**²⁰¹⁵ = 4.218^{KSU} (4.205^{USDA}) bln bu
 - vs 4.086 bln bu²⁰¹⁴ (record)

U.S. SOYBEAN ACREAGE

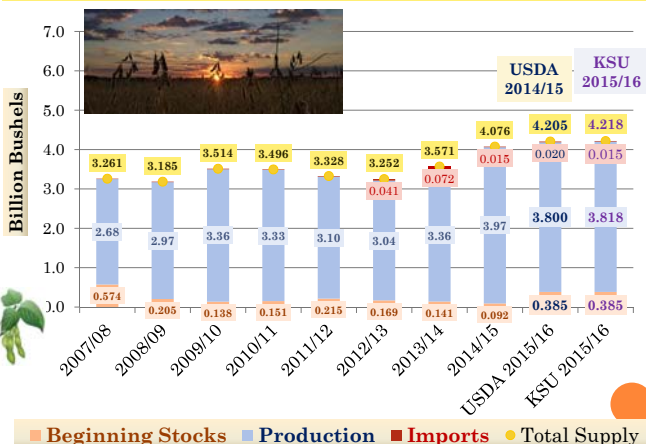


U.S. SOYBEAN YIELDS

USDA 2014: 47.8 BU/AC, 2015 TREND^{KSU} = 45.1 BU/AC



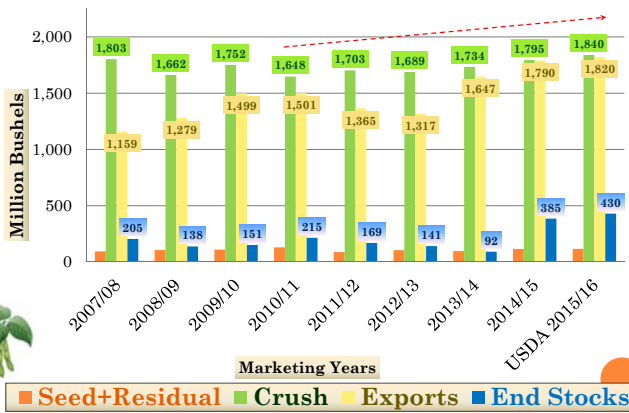
U.S. SOYBEAN TOTAL SUPPLIES



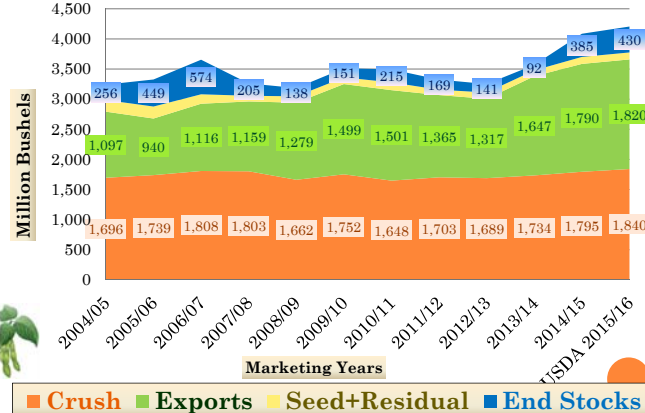
U.S. SOYBEAN USE IN MY 2014/15

- **Crush** – 1.795 bln bu. (↑3.5%)
 - ↑ Soybean Oil & Meal demand
- **Exports** – 1.790 bln bu. (↑9%)
 - South American Competition
 - Climbing value of \$USD
- **Seed & Residual** – 97 mln bu.
- **Total Use** – 3.701 bln bu. (↑6%)
 - ↑ Total Use with ↑ Supply & ↓ \$s

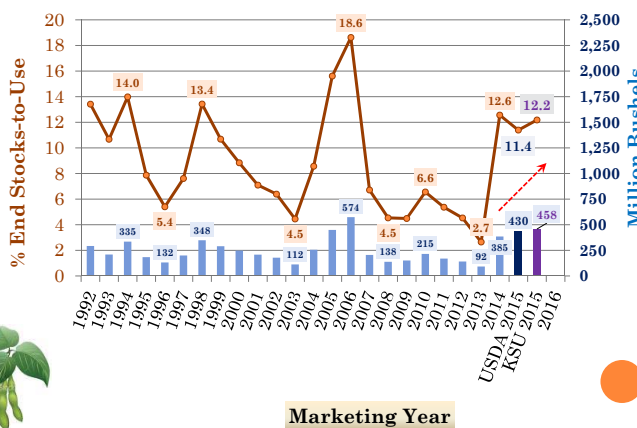
U.S. SOYBEAN USE & END STOCKS



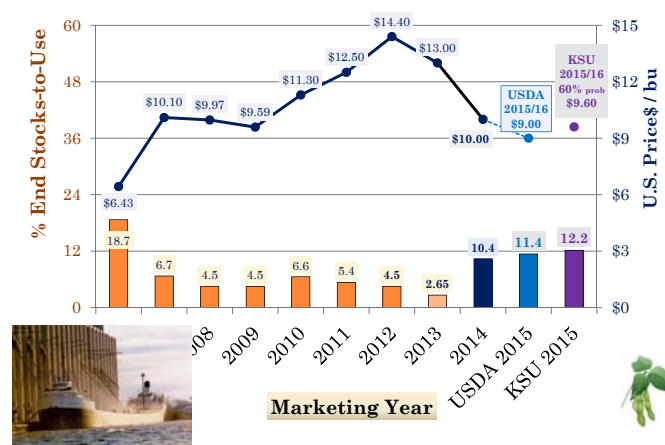
U.S. SOYBEAN USE & END STOCKS



U.S. SOYBEAN END STOCKS, %S/U

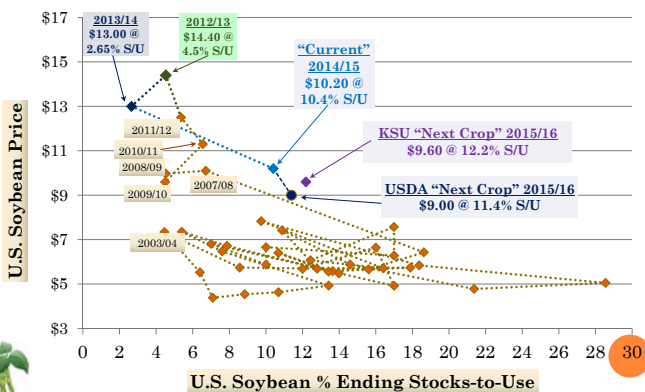


U.S. SOYBEAN %STX/USE VS PRICE\$

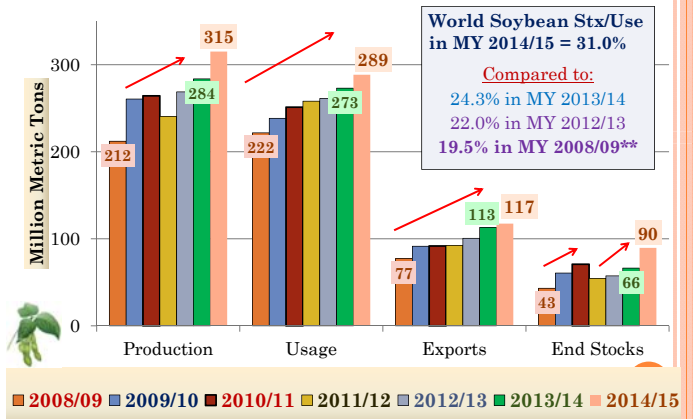


U.S. SOYBEAN \$ VS STX-TO-USE

MY 1973/74 - 2014/15 MARCH 10, 2014 WASDE USDA & KSU 2015/16 FORECASTS

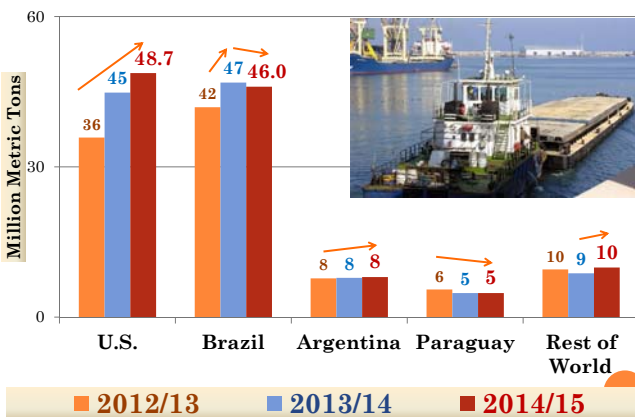


WORLD SOYBEAN SUPPLY-DEMAND

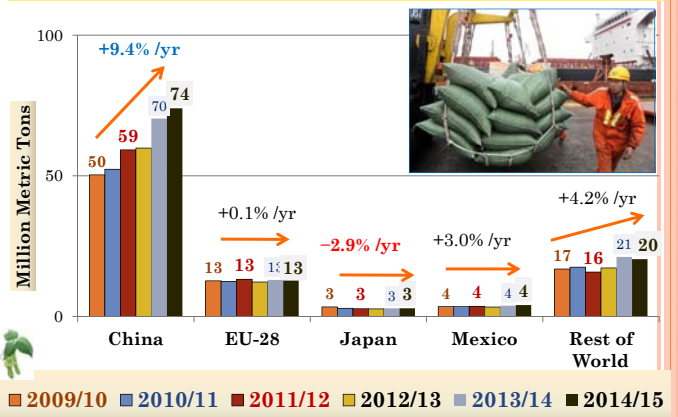


World Soybean Stx/Use in MY 2014/15 = 31.0%
 Compared to:
 24.3% in MY 2013/14
 22.0% in MY 2012/13
 19.5% in MY 2008/09**

SOYBEAN EXPORTER SALES

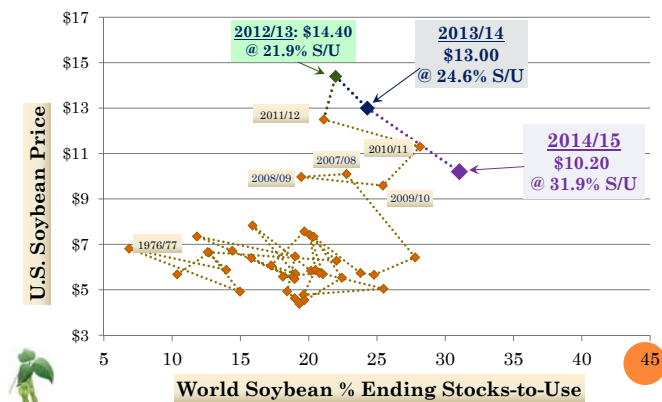


SOYBEAN IMPORTER PURCHASES



U.S. SOYBEAN \$ VS WORLD %STX/USE

MY 1973/74 - 2014/15 MARCH 10, 2015 USDA REPORTS



SOYBEAN MARKET PROSPECTS

South America Prospects

- Prospects for large crop in 2015 ⇒ driving World \$'s in Winter-Spring
- Low currency values ↑ Exports



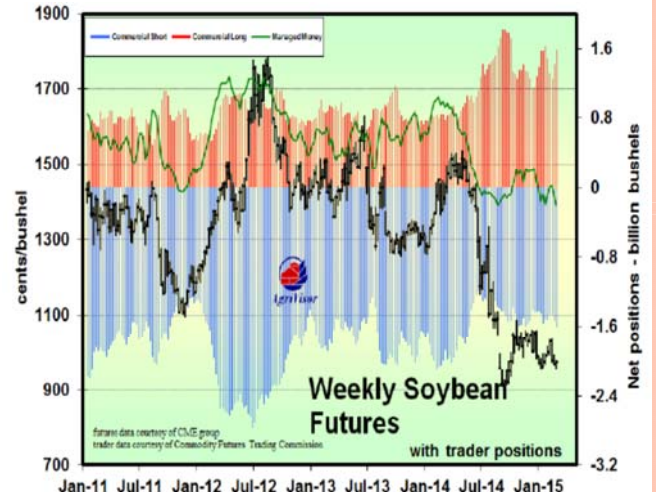
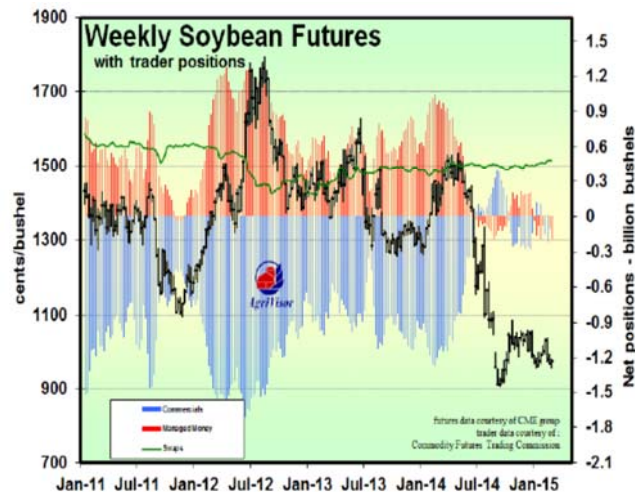
Soy Market Prospects-2014/15

- A Large Supply year ⇒ Low \$'s
- China demand continuing (!?!)



U.S. Soybean Acres in 2015?

- "New Crop" Soy/Corn²⁰¹⁵ Ratio = 2.3





QUESTIONS?



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