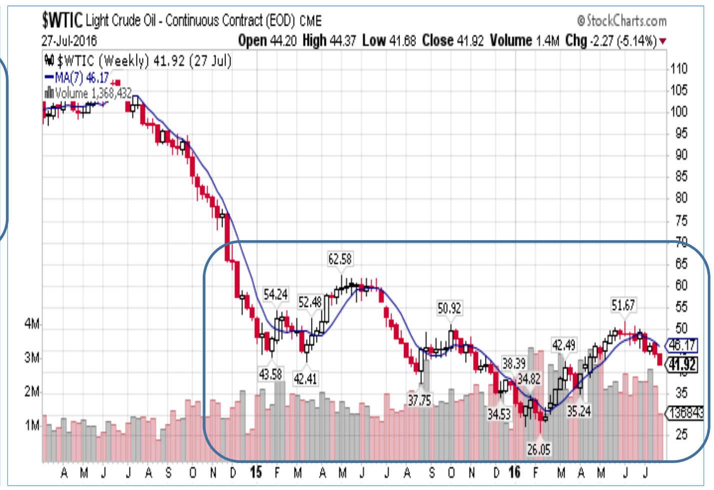
KSU Agriculture Today Radio Notes

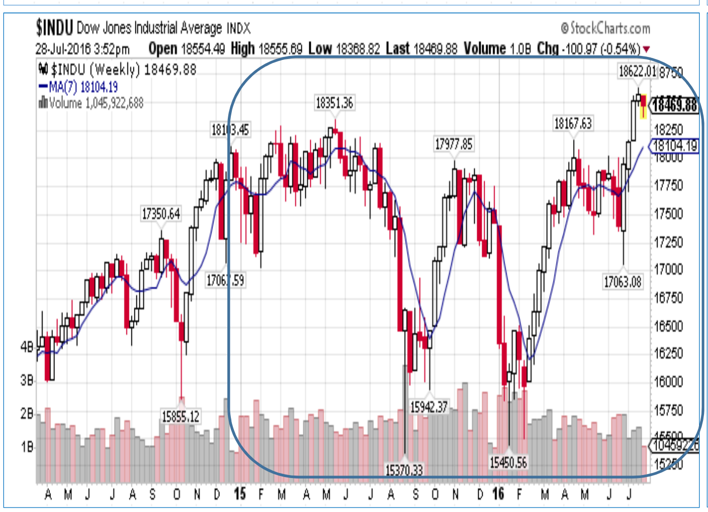
Daniel O'Brien, Extension Agricultural Economist, Kansas State University

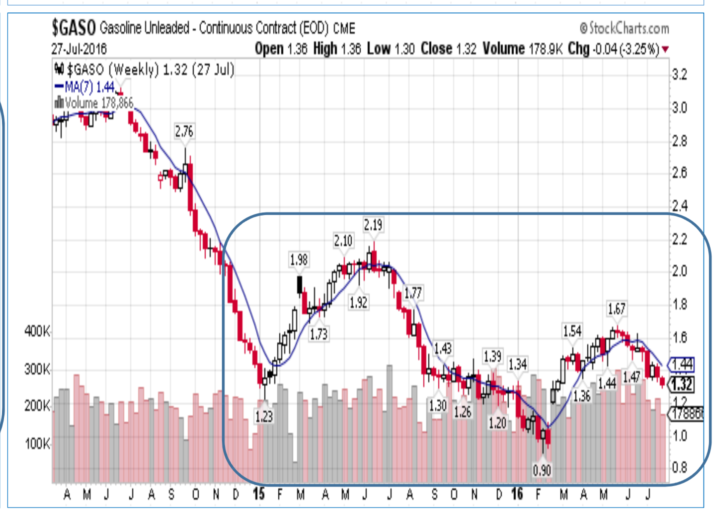
For Radio Program to be aired 10:00-10:15 a.m., Friday, July 29, 2016

I. Grain Futures Closes, Changes & Carry on Thursday, July 28, 2016

Corn Futures				Soybean Futures				Kansas Wheat Futures			
Month	Close	Change	Carry	Month	Close	Change	Carry	Month	Close	Change	Carry
Sept 16	$3.31 ¼	⇩ $0.045	---	Aug 16	$10.03 ½	⇩ $0.07	---	Sept 16	$4.09	⇩ $0.035	---
Dec 16	**$3.38 ¾**	⇩ $0.0425	$\$0.02^{50}$	Sept 16	$ 9.93 ¼	⇩ $0.065	No carry	Dec 16	$4.35	⇩ $0.035	$\$0.08^{667}$
Mar 17	$3.47 ½	⇩ $0.0425	$\$0.02^{917}$	**Nov 16**	$ 9.78	⇩ $0.08	No carry	Mar 17	$4.52	⇩ $0.035	$\$0.05^{667}$
May 17	$3.53 ¼	⇩ $0.0375	$\$0.02^{875}$	Jan 17	$ 9.78 ½	⇩ $0.0775	$\$0.00^{125}$	May 17	$4.63	⇩ $0.0325	$\$0.05^{50}$
July 17	$3.58 ½	⇩ $0.035	$\$0.02^{475}$	Mar 17	$ 9.68	⇩ $0.07	No carry	July 17	$4.72 ½	⇩ $0.04	$\$0.04^{75}$
Sept 17	$3.62 ¼	⇩ $0.0325	$\$0.01^{875}$	May 17	$ 9.63	⇩ $0.0725	No carry	Sept 17	$4.87 ½	⇩ $0.0425	$\$0.07^{50}$
Dec 17	$3.68 ¼	⇩ $0.02	$0.02	July 17	$ 9.63 ¾	⇩ $0.0725	$\$0.00^{375}$	Dec 17	$5.06 ¾	⇩ $0.0425	$\$0.06^{417}$
Mar 18	$3.77 ¾	⇩ $0.02	$\$0.03^{167}$	Aug 17	$ 9.55 ¾	⇩ $0.0725	No carry	Mar 18	$5.21 ¼	⇩ $0.0425	$\$0.04^{833}$







DC_GR112
Dodge City, KS Thu, Jul 28, 2016 USDA-KS Dept of Ag Market News

Central Kansas Terminal and Processor Daily Grain Report

TERMINAL HRW WHEAT ORD US NO 1

	Bids	Change (¢/bu)	Basis	Change
Atchison	3.3400	DN 3.5	-75U	UNCH
Topeka	3.4900	DN 3.5	-60U	UNCH
Concordia	3.0900	DN 3.5	-100U	UNCH
Salina	3.1900-3.2400	DN 3.5	-90U to -85U	UNCH
Great Bend	3.0900	DN 3.5	-100U	UNCH
Newton	2.9000	DN 3.5	-119U	UNCH
Hutchinson	3.0000-3.2900	DN 3.5	-109U to -80U	UNCH
Wichita	3.0700-3.2600	DN 3.5	-102U to -83U	UNCH
Wellington	3.1000-3.1400	DN 3.5	-99U to -95U	UNCH
Arkansas City	3.0400	DN 3.5	-105U	UNCH

TERMINAL HWW WHEAT ORD US NO 2

	Bids	Change (¢/bu)	Basis	Change
Wichita	3.2600	DN 3.5	-83U	UNCH

TERMINAL US NO 2 YELLOW CORN

	Bids	Change (¢/bu)	Basis	Change
Atchison	3.1625	DN 4.5	-15U	UNCH
Topeka	3.1625	DN 4.5	-15U	UNCH
Salina	2.6625-2.7625	DN 4.5	-65U to -55U	UNCH
Newton	2.5025	DN 2.5	-81U	UP 2
Hutchinson	2.7025-2.7625	DN 2.5-DN 4.5	-61U to -55U	UP 2-UNCH
Wellington	2.7125	DN 4.5	-60U	UNCH
Arkansas City	2.7125	DN 4.5	-60U	UNCH

TERMINAL US NO 2 SORGHUM

	Bids	Change (¢/cwt)	Basis	Change
Topeka	4.62	DN 8	-80Z	UNCH
Concordia	4.31	DN 8	-90U	UNCH
Salina	4.58-4.62	DN 8	-75U to -80Z	UNCH
Newton	4.27	DN 8	-92U	UNCH
Hutchinson	4.42-4.93	DN 8	-84U to -55U	UNCH
Wichita	NA	NA	NA	NA
Wellington	4.45	DN 8	-82U	UNCH
Arkansas City	4.45	DN 8	-82U	UNCH

TERMINAL US NO 2 SOYBEANS

	Bids	Change (¢/bu)	Basis	Change
Atchison	9.4800	DN 8	-30X	UNCH
Topeka	9.4800	DN 8	-30X	UNCH
Salina	9.1300-9.2350	DN 8-DN 7	-65X to -80Q	UNCH
Newton	9.1650	DN 7	-87Q	UNCH
Hutchinson	9.1750-9.2350	DN 7	-86Q to -80Q	UNCH
Wichita	9.2450	DN 7	-79Q	UNCH
Wellington	9.2400	DN 8	-54X	UNCH
Arkansas City	9.2400	DN 8	-54X	UNCH

PROCESSOR HRW WHEAT US NO 1

	Bids	Change (¢/bu)	Basis	Change
Wichita-11%	3.7900	DN 3.5	-30U	UNCH
Wichita-12%	3.9900	DN 3.5	-10U	UNCH
Wichita-13%	4.1900	DN 3.5	10U	UNCH

PROCESSOR US NO 2 YELLOW CORN

	Bids	Change (¢/bu)	Basis	Change
Atchison	3.1325	DN 4.5	-18U	UNCH

PROCESSOR US NO 2 SOYBEANS

	Bids	Change (¢/bu)	Basis	Change
Emporia	9.8800	DN 8	10X	UNCH
Wichita	9.5800	DN 8	-20X	UNCH

* All bids are $/bu except Sorghum, which is $/cwt.

Chicago Board of Trade month symbols: F January, G February, H March, J April, K May, M June, N July, Q August, U September, V October, X November, Z December

Source: USDA-KS Department of Ag Market News Service, Dodge City, KS

DC_GR110
Dodge City, KS   Thu, Jul 28, 2016   USDA-KS Dept of Ag Market News

Western Kansas Grain Markets

Thursday's closing elevator grain bids:

HRW WHEAT ORD US NO 1

	Bids	Change (¢/bu)	Basis	Change
Dodge City	2.89	DN 3.5	-120U	UNCH
Colby	2.86	DN 3.5	-123U	UNCH
Garden City	2.89	DN 3.5	-120U	UNCH
Goodland	2.84	DN 3.5	-125U	UNCH
Protection	2.89	DN 3.5	-120U	UNCH
Scott City	2.84-2.87	DN 3.5	-125U to -122U	UNCH
Sublette	2.92-2.99	DN 3.5	-117U to -110U	UNCH
Syracuse	2.89	DN 3.5	-120U	UNCH
Ulysses	2.89	DN 3.5	-120U	UNCH

US NO 2 YELLOW CORN

	Bids	Change (¢/bu)	Basis	Change
Dodge City	2.91	DN 4.5	-40U	UNCH
Colby	2.74	DN 4.5	-57U	UNCH
Garden City	2.91-2.96	DN 4.5	-40U to -35U	UNCH
Goodland	2.66	DN 4.5	-65U	UNCH
Protection	2.96	DN 4.5	-35U	UNCH
Scott City	2.83-2.88	DN 4.5	-48U to -43U	UNCH
Sublette	2.99	DN 4.5	-32U	UNCH
Syracuse	2.96	DN 4.5	-35U	UNCH
Ulysses	3.01	DN 4.5	-30U	UNCH

US NO 2 SORGHUM

	Bids	Change (¢/cwt)	Basis	Change
Dodge City	4.31	DN 8	-90U	UNCH
Colby	4.31	DN 8	-90U	UNCH
Garden City	4.13-4.34	DN 8	-100U to -88U	UNCH
Goodland	NA	NA	NA	NA
Protection	4.40	DN 8	-85U	UNCH
Scott City	4.04-4.09	DN 8	-105U to -102U	UNCH
Sublette	4.31-4.40	DN 8	-90U to -85U	UNCH
Syracuse	4.22	DN 8	-95U	UNCH
Ulysses	4.22	DN 8	-95U	UNCH

US NO 2 YELLOW SOYBEANS

	Bids	Change (¢/bu)	Basis	Change
Dodge City	8.99	DN 7	-105Q	UNCH
Colby	NA	NA	NA	NA
Garden City	8.78-8.98	DN 8	-100X to -80X	UNCH
Protection	8.93	DN 8	-85X	UNCH
Scott City	8.99	DN 7	-105Q	UNCH
Sublette	8.98-8.99	DN 7.5	-80X to -105Q	UP 25-DN 25
Ulysses	8.75	DN 8	-103X	UNCH

US NO 2 YELLOW CORN - FEEDMILL BID

	Bids	Change (¢/bu)	Basis	Change
Ashland	NA	NA	NA	NA

US NO 2 SORGHUM - FEEDMILL BID

	Bids	Change (¢/cwt)	Basis	Change
Ashland	5.11	DN 8	-45U	UNCH

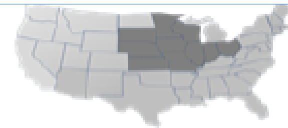
Cotton Grade 41, Leaf 4, Staple 34, West Texas base price 69.25 cents per pound
FOB Railcar or Truck

* All bids are $/bu except Sorghum, which is $/cwt.

Chicago Board of Trade month symbols: F January, G February, H March, J April,
K May, M June, N July, Q August, U September, V October, X November, Z December

Source: USDA-KS Department of Ag Market News Service, Dodge City, KS
Richard Hruska 620-227-8881 DodgeCity.LPGMN@ams.usda.gov
www.ams.usda.gov/mnreports/DC_GR110.txt
www.ams.usda.gov/LPSMarketNewsPage

USDA Daily Ethanol Report
Agricultural Marketing Service
Livestock, Poultry & Grain Market News



Thu. Jul 28, 2016

US #2 Yellow Corn - dollars/bushel

	Cash Bids	Chg	Basis	Avg:
Iowa-Eastern:	2.9175 - 3.4075	↑	-44U to 5U	-19.50
Iowa-Western:	2.8575 - 3.1975	↑	-50U to -16U	-33.00
Illinois:	3.3475 - 3.5575	↑	-1U to 20U	9.50
Indiana:	3.2875 - 3.6075	↑	-7U to 25U	9.00
Ohio:	3.3675 - 3.6075	↑	1U to 25U	13.00
Michigan:	3.2075 - 3.4575	↑	-15U to 10U	-2.50
Kansas:	3.1075 - 3.4575	↑	-25U to 10U	-7.50
Minnesota:	2.8075 - 3.1275	↑	-55U to -23U	-39.00
Nebraska:	2.9575 - 3.2575	↑	-40U to -10U	-25.00
Wisconsin:	3.0275 - 3.1175	↑	-33U to -24U	-28.50
South Dakota:	2.8575 - 3.1075	↑	-50U to -25U	-37.50
Missouri:	3.0775 - 3.2575	↓	-28U to -10U	-19.00

Distillers Grain - dollars/ton

	Dried 10%	Chg	Avg:	Modified 50-55%	Chg	Avg:	Wet 65-70%	Chg	Avg:
Iowa-Eastern:	130.00 - 135.00	—	132.50	55.00 - 65.00	—	60.00	NA	NA	NA
Iowa-Western:	115.00 - 142.00	—	128.50	46.00 - 65.00	—	55.50	34.00 - 39.00	—	36.50
Illinois:	130.00 - 155.00	↓	142.50	NA	NA	NA	NA	NA	NA
Indiana:	130.00 - 155.00	↓	142.50	74.00	—	74.00	NA	NA	NA
Ohio:	135.00 - 149.00	↓	142.00	NA	NA	NA	NA	NA	NA
Michigan:	120.00 - 150.00	—	135.00	60.00 - 64.00	—	62.00	NA	NA	NA
Kansas:	125.00 - 155.00	—	140.00	NA	NA	NA	40.00 - 46.00	↓	43.00
Minnesota:	120.00 - 140.00	—	130.00	55.00	—	55.00	. - 45.00	—	45.00
Nebraska:	115.00 - 131.00	—	123.00	49.00 - 64.00	—		29.50 - 40.00	—	34.75
Wisconsin:	125.00 - 155.00	—	140.00	55.00 - 75.00	—	65.00	NA	NA	NA
South Dakota:	118.00 - 130.50	↑	124.25	55.00 - 65.00	↑	60.00	34.00 - 40.00	—	37.00
Missouri:	145.00 - 170.00	—	157.50	65.00	—	65.00	40.00 - 45.00	↓	42.50

Sorghum - dollars/bushel

	Cash Bids	Chg	Basis	Avg:
Kansas:	2.8075 - 2.8575	↑	-55U to -50U	-52.50
Missouri:	2.9575	↑	-40U to -40U	-40.00

Corn Oil - cents/pound

W/E 7/22/16	Range	Chg:	Avg:
Iowa:	24.00 - 27.00	↓	25.50
Eastern Cornbelt:	24.00 - 28.00	↓	26.00
Nebraska:	25.00 - 25.50	↓	25.25
South Dakota:	NA	NA	NA

Ethanol - dollars/gallon

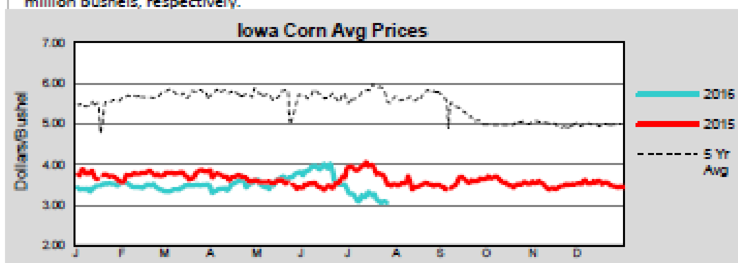
W/E 7/22/16	Range	Chg:	Avg:
Iowa:	1.34 - 1.45	↓	1.40
Eastern Cornbelt	1.50 - 1.53	↓	1.52
Kansas:	1.40 - 1.40	↓	1.40
Minnesota:	1.40 - 1.40	↓	1.40
Nebraska:	1.34 - 1.42	↓	1.38
Wisconsin:	NA	NA	NA
South Dakota:	1.40 - 1.40	↓	1.40

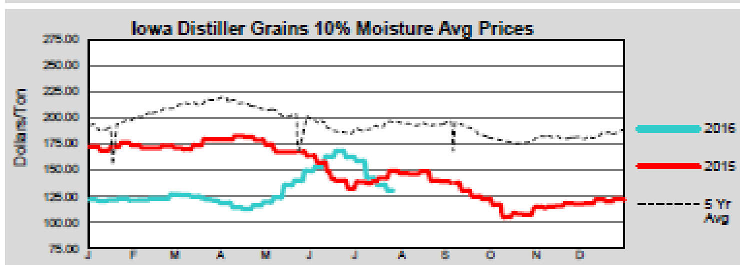
Daily Nearby Futures

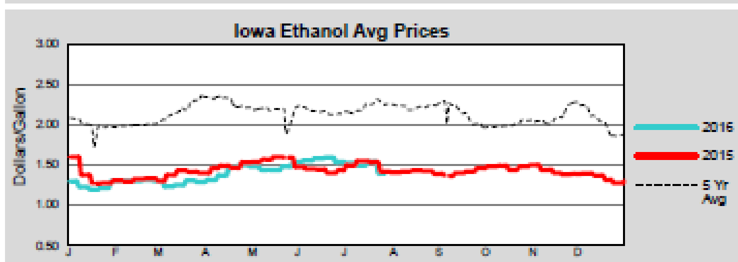
	Today	Yesterday	Last year
CME group			
Corn ($/bu)	3.3225	3.3575	3.7325
Ethanol ($/gal)	1.4250	1.4450	1.5010
NYMEX:			
RBOB Gasoline ($/gal)	1.3253	1.3214	1.8279
Natural Gas (mmBtu)	2.8360	2.6600	2.7680

Daily Market Review

Dry distillers grains saw price declines in the Eastern Cornbelt, mostly 5 dollars lower; however, South Dakota saw a slight incline in price of 1.50. Recent forecasts have returned higher temperature outlooks to the Cornbelt. Corn export and shipments last week totaled 17.3 and 54.3 million bushels, respectively.







BIO-ENERGY REPORT NOTES

Yellow corn : US #2 spot bids at ethanol plants reported as $/per bushel

Distiller grains: Spot bids FOB the ethanol plant reported as $/per ton. Protein content 28-30% for most distiller grains on a dry matter basis.

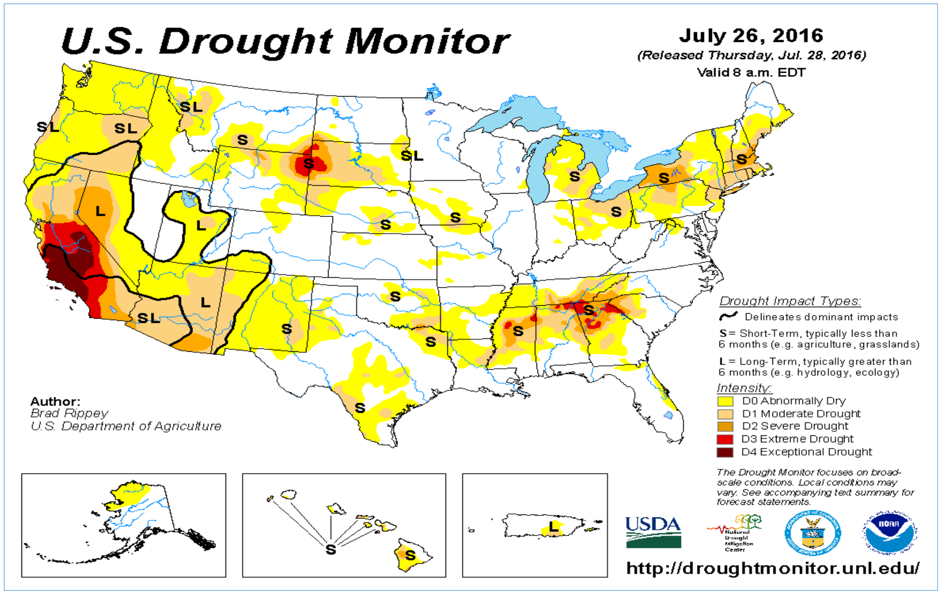
Ethanol: Spot bids FOB the ethanol plant reported as $/gallon.

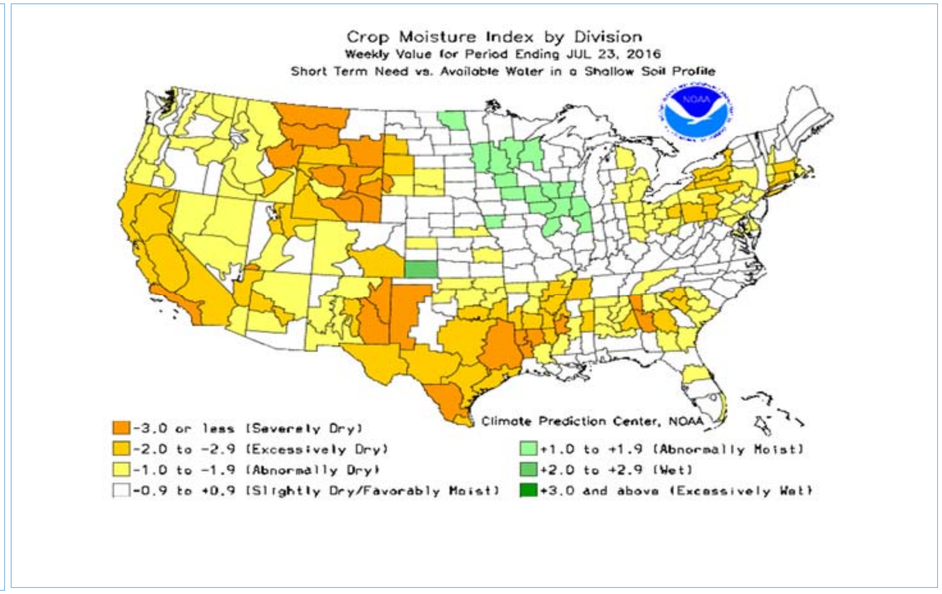
Distiller corn oil: Spot bids FOB the ethanol plant reported as ¢/lb. Distiller corn oil is intended for animal feed or biofuel and is not Generally Regarded As Safe (GRAS) for human consumption. It may also be referred to as inedible crude corn oil.

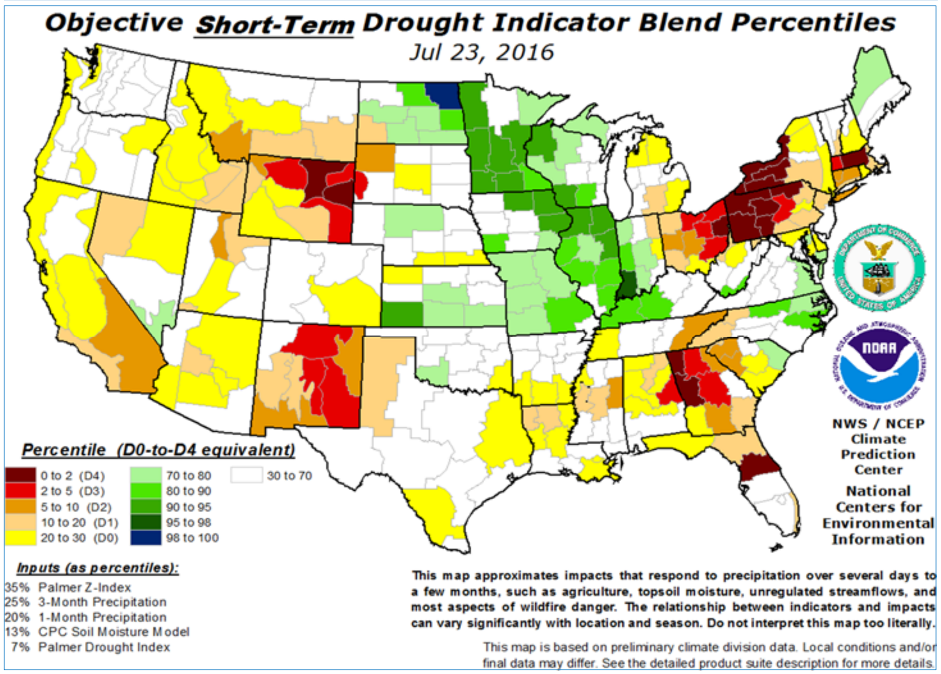
Chicago Board of Trade month symbols: F January, G February, H March, J April, K May, M June, N July, Q August, U September, V October, X November, Z December

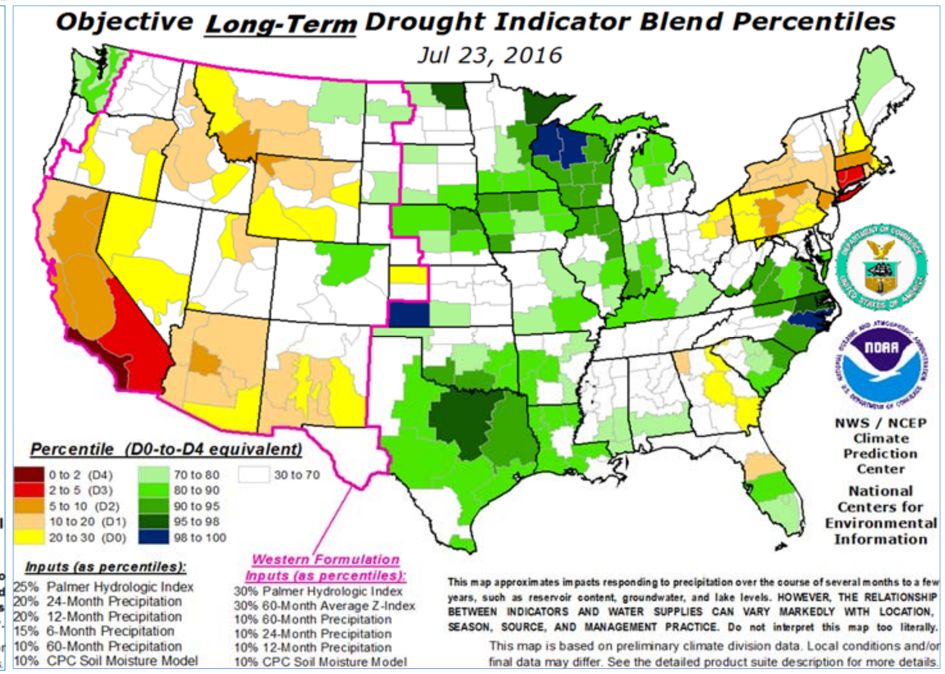
Dillan Howe, Ethanol Market Reporter St. Joseph, MO (816) 676-7000 Email: StJoe.LPGMN@ams.usda.gov Prepared: 28-Jul-16 9:16 AM Central Time

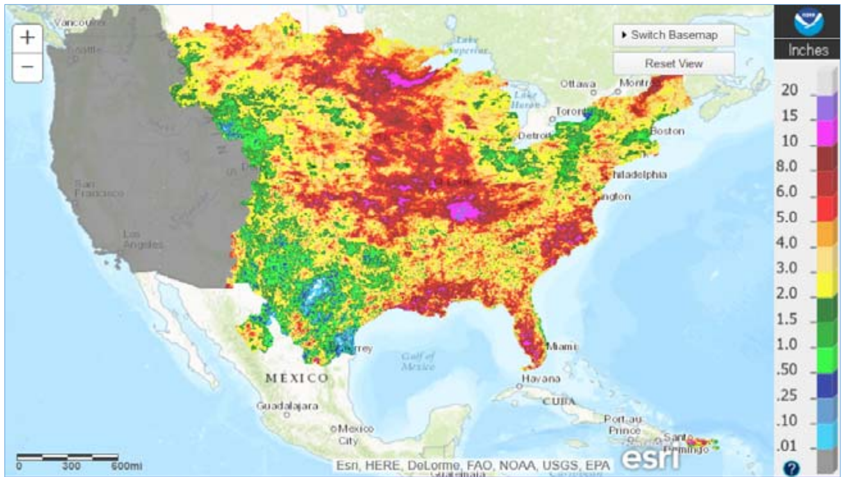
II. U.S. & World Drought Monitor, Moisture Accumulations & Forecasts (Weekly Weather and Crop Bulletin)



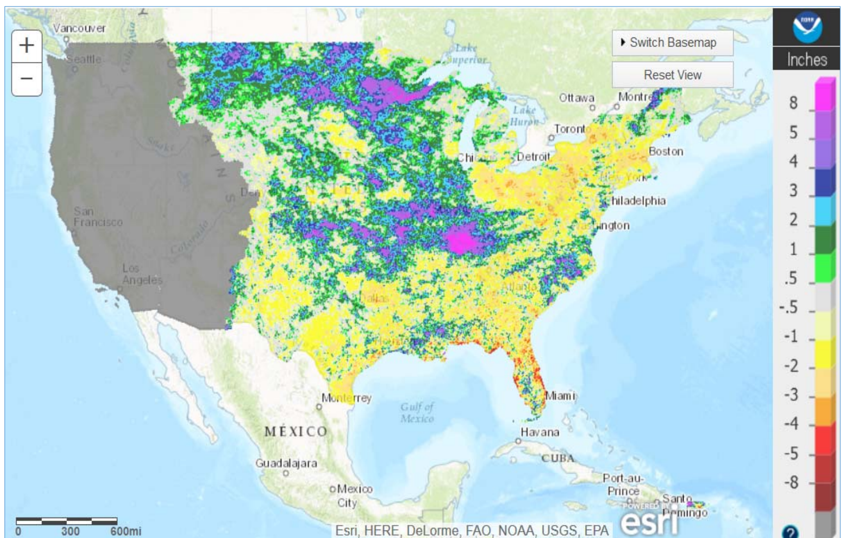




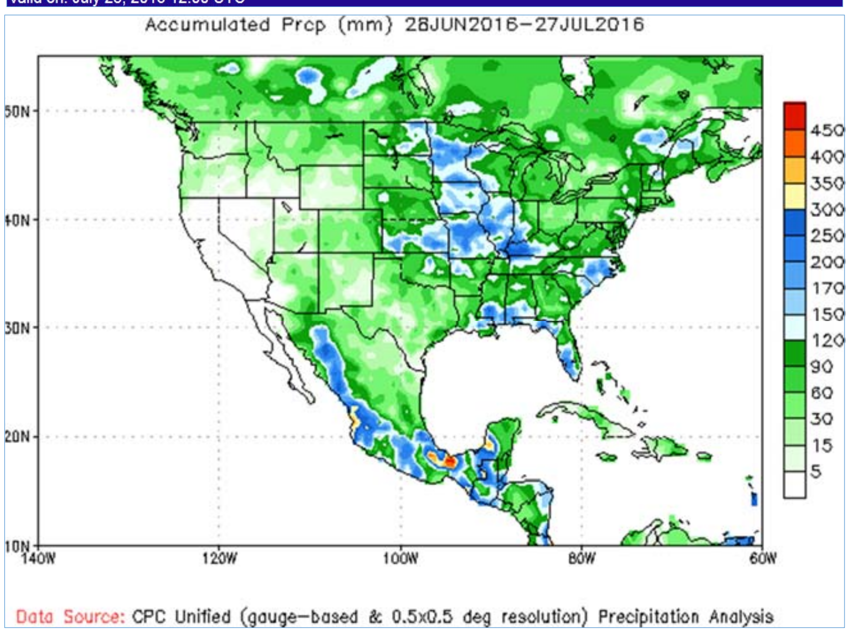


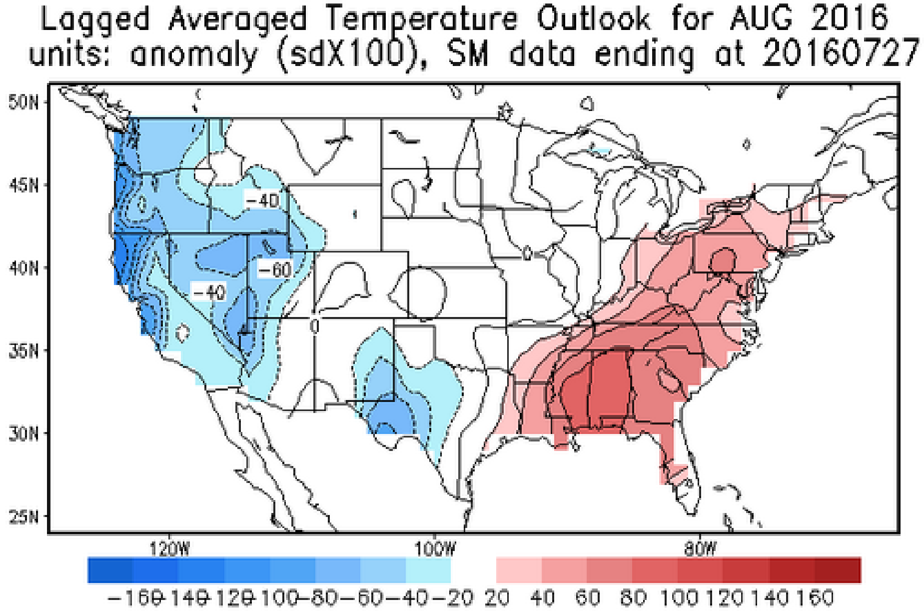


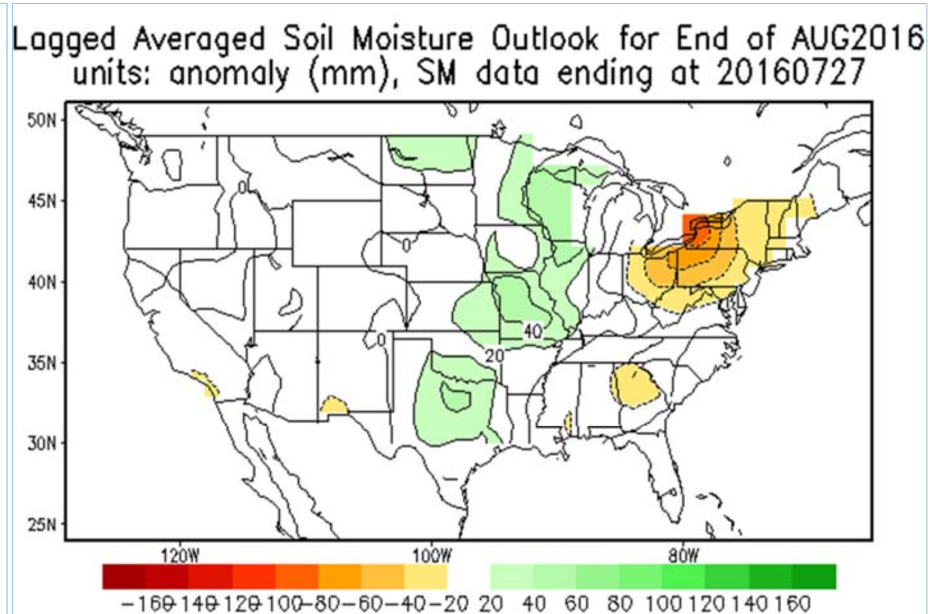
Displaying Last 30-Day Observed Precipitation
Valid on: July 28, 2016 12:00 UTC

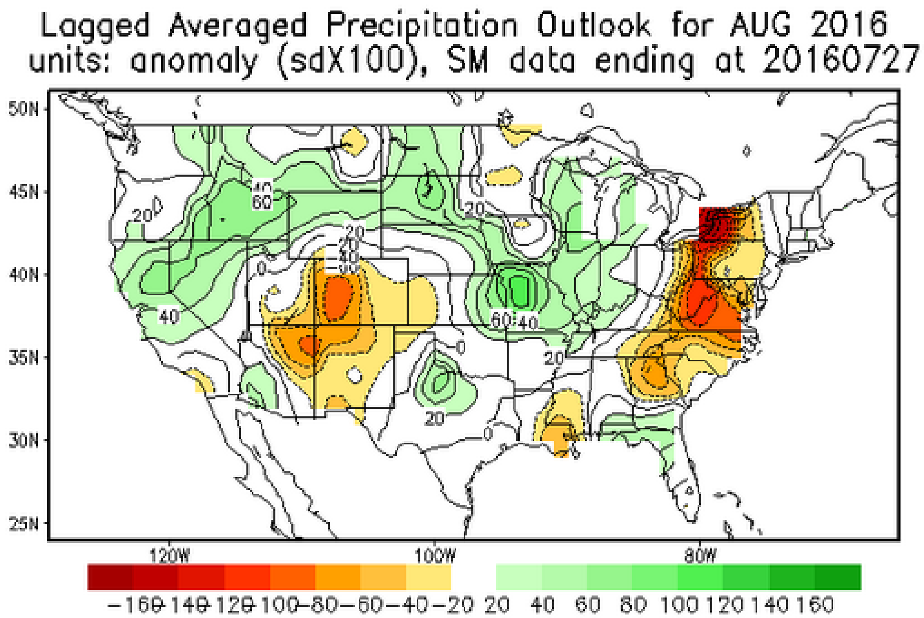


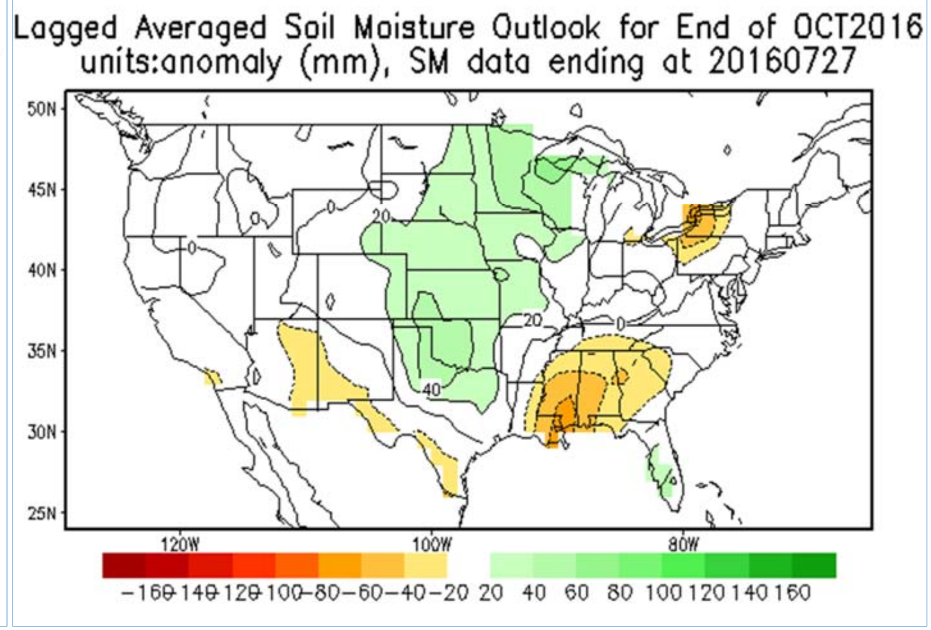
Displaying Last 30-Day Departure from Normal Precipitation
Valid on: July 28, 2016 12:00 UTC




Lagged Averaged Temperature Outlook for AUG 2016
units: anomaly (sdX100), SM data ending at 20160727
50N
45N
40N
35N
30N
25N
120W
100W
80W
−160 −140 −120 −100 −80 −60 −40 −20 20 40 60 80 100 120 140 160


Lagged Averaged Soil Moisture Outlook for End of AUG2016
units: anomaly (mm), SM data ending at 20160727
50N
45N
40N
35N
30N
25N
120W
100W
80W
−160 −140 −120 −100 −80 −60 −40 −20 20 40 60 80 100 120 140 160


Lagged Averaged Precipitation Outlook for AUG 2016
units: anomaly (sdX100), SM data ending at 20160727
50N
45N
40N
35N
30N
25N
120W
100W
80W
−160 −140 −120 −100 −80 −60 −40 −20 20 40 60 80 100 120 140 160


Lagged Averaged Soil Moisture Outlook for End of OCT2016
units:anomaly (mm), SM data ending at 20160727
50N
45N
40N
35N
30N
25N
120W
100W
80W
−160 −140 −120 −100 −80 −60 −40 −20 20 40 60 80 100 120 140 160

INTERNATIONAL CROP AND WEATHER HIGHLIGHTS
USDA/WAOB Joint Agricultural Weather Facility

July 26, 2016

EUROPE – Highlight: Early-Week Heat Stressed Corn In Southwestern Europe

– A brief incursion of early-week heat stressed reproductive corn in **Spain** and **France**.
– Mostly sunny skies promoted winter crop harvesting across much of **northern Europe**.

MIDDLE EAST – Highlight: Heat Subsided In Turkey

– Heat subsided in **Turkey**, easing stress on flowering to filling corn and cotton.

FSU – Highlight: Excessive Heat Was Followed By Rainy, Cooler Weather

– Early in the week, excessive heat stressed reproductive corn and sunflowers in **Ukraine** and **western Russia**; by mid-week, rain boosted soil moisture and signaled the end of the hot weather.
– Cool, showery weather benefited heading to flowering spring wheat in **central Russia** and **Kazakhstan**.
– Heat subsided in **central and western Uzbekistan**, easing stress on flowering cotton.

SOUTH ASIA – Highlight: Drier In Western India

– Monsoon showers were lighter in **western India**, easing excessive wetness for soybeans while further exacerbating dryness for cotton in parts of **Gujarat**.

EAST ASIA – Highlight: Still Too Dry In Parts Of Northeastern China

– Untimely dryness continued for reproductive corn and soybeans in sections of **northeastern China**.
– Heavy showers increased soil moisture and irrigation supplies for summer crops on the **North China Plain**.

SOUTHEAST ASIA – Highlight: Good Rainfall In Indochina; Becoming Too Dry In The Philippines

– An active monsoon kept rice and other summer crops well watered across **Indochina**.
– Unseasonably light showers prevailed for rice and corn in **the Philippines**, where short-term rainfall deficits were being reported for July.

AUSTRALIA – Highlight: Favorable For Winter Crops

– Continuing a season-long pattern of near ideal weather, widespread showers fell across **most of the wheat belt**, maintaining adequate to abundant moisture supplies for winter grains and oilseeds.
– Warm, dry weather in **southern Queensland** favored winter wheat development.

SOUTH AMERICA – Highlight: Dryness Favored Autumn Fieldwork; Cold In Southern Brazil

– Dry weather dominated major agricultural areas of **Argentina and Brazil**, supporting the final stages of corn and cotton harvesting and winter wheat planting.
– Frost raised concern for local damage to coffee and sugarcane in **southeastern Brazil**.

MEXICO – Highlight: Seasonal Showers Benefited Corn And Sugarcane

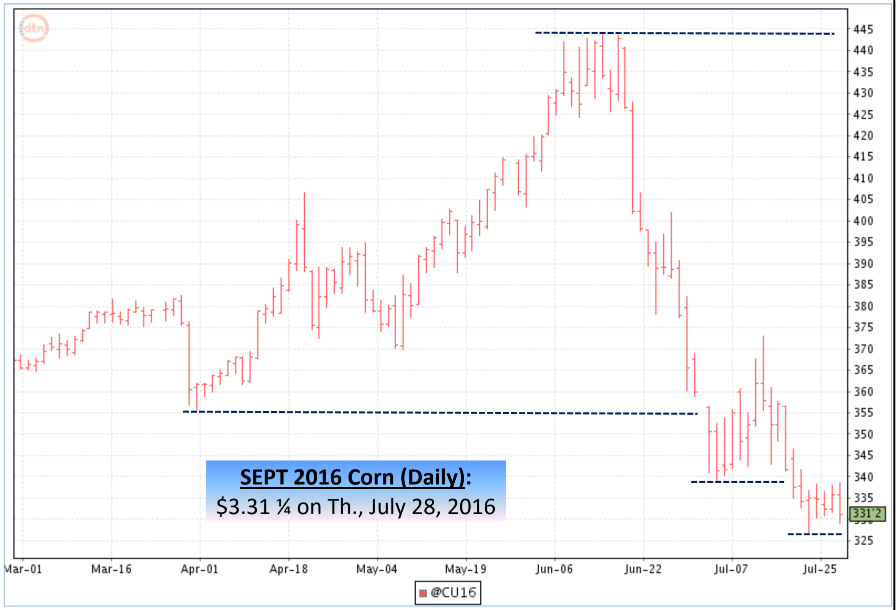
– Seasonal rainfall overspread key summer crop areas, as well as **northwestern** watersheds.

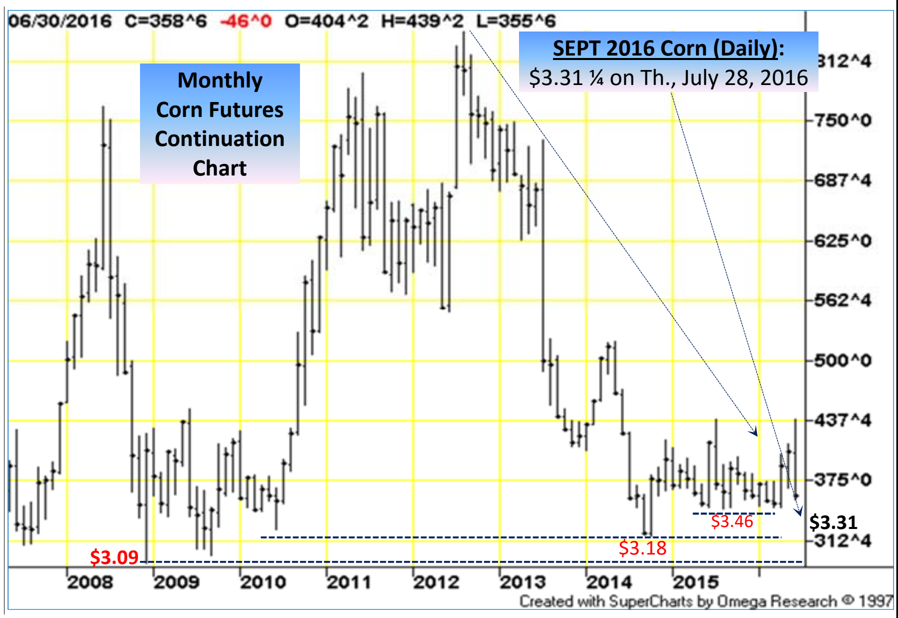
CANADA – Highlight: Rain Needed In Ontario; Warmth Spurred Prairie Crop Growth

– Mostly dry, occasionally warm weather further reduced moisture for **Ontario**'s corn and soybeans.
– Warm weather and scattered showers fostered **Prairie** spring grain and oilseed development.

III. Corn Market Information

Daily SEPT 2016 Corn Futures





Key Corn & Grain Sorghum Supply-Demand Factors:

❖ **U.S. Corn Exports: "Neutral-negative" short term MY 2015/16 U.S. corn export shipments with "positive" long term outlook**

- Weekly Export Shipments week of 7/21/2016 for MY 2015/16 = 54.3 mb vs 58.8 mb/wk needed to meet USDA's July 12th projn of 1.900 bb exports
- Total shipments through 7/21/2016 for MY 2015/16 = 1.547 bb i.e., 81.4% of 1.900 bb USDA projn with 88.5% of MY complete (46/52 weeks)
- Total shipments & new sales (7/21/2016) for "current" MY 2015/16 = 1.900 bb i.e., 100.9% of 1.917 bb USDA projn w. 88.5% of MY complete (46/52 weeks)
- Total sales (7/21/2016) for "new crop" MY 2016/17 = 0.282 bb i.e., 13.7% of 2.050 bb USDA projn w. 0.0% of MY complete (0/52 weeks)

❖ **U.S. Grain Sorghum Exports: "Neutral-negative" short term MY 2015/16 Export Shipments & "positive" long term**

- Weekly Export Shipments wk of 7/21/2016 for MY 2015/16 = 6.7 mb vs 7.75 mb/wk needed to meet USDA's July 12th projn of 330 mb exports
- Total shipments through 7/21/2016 for MY 2015/16 = 283.5 mb i.e., 85.9% of 330 mb USDA projn with 88.5% of MY complete (46/52 weeks)
- Total shipments & new sales (7/21/2016) for "current" MY 2015/16 = 313.9 mb i.e., 95.1% of 330 mb USDA projn w. 88.5% of MY complete (46/52 weeks)
- Total new sales (7/21/2016) for "new crop" MY 2016/17 = 0.953 mb i.e., 0.4% of 220 mb USDA projn w. 0.0% of MY complete (0/52 weeks)

❖ **World & U.S. Corn Supply-Demand Fundamentals**

Mktg Yr	World % S/U	U.S. % S/U	U.S. $/bu	
2007/08	16.5% S/U	12.8% S/U	$4.20 /bu	
2008/09	18.3% S/U	13.9% S/U	$4.06 /bu	
2009/10	17.2% S/U	13.1% S/U	$3.55 /bu	
2010/11	14.5% S/U	8.7% S/U	$5.18 /bu	
2011/12	14.8% S/U	7.9% S/U	$6.22 /bu	
2012/13	15.3% S/U	7.4% S/U	$6.89 /bu	
2013/14	18.6% S/U	9.2% S/U	$4.46 /bu	
2014/15 USDA	21.3% S/U	12.6% S/U	$3.70 /bu	
2015/16 USDA	**21.5% S/U**	**12.4% S/U**	**$3.65 /bu**	**13.601 bln bu crop**
2016/17 USDA	**20.6% S/U**	**14.6% S/U**	**$3.40 /bu**	**14.540 bln bu crop**

❖ **U.S. Grain Sorghum Supply-Demand Fundamentals**

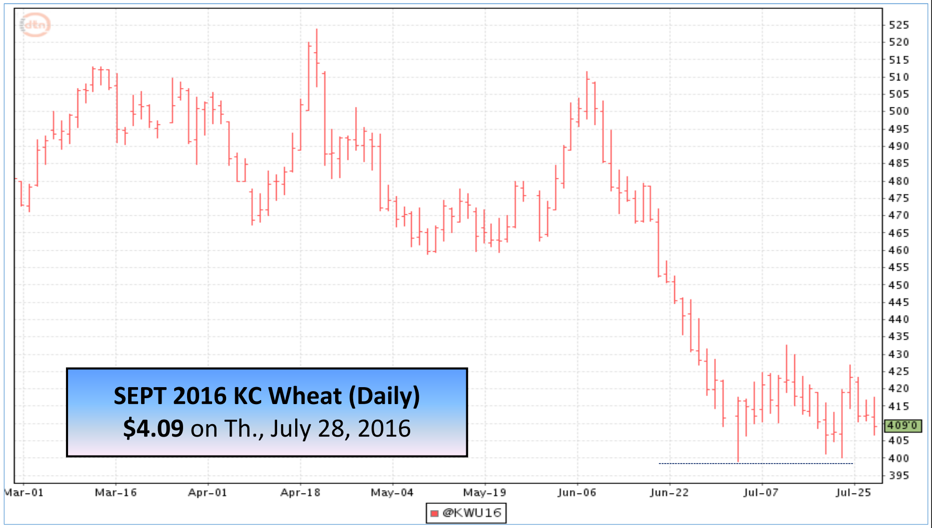
2014/15 USDA	67.6 bu/ac US	4.1% S/U	$4.03 /bu	433 mln bu crop
2015/16 USDA	**76.0 bu/ac US**	**7.8% S/U**	**$3.30 /bu**	**597 mln bu crop**
2016/17 USDA	**65.1 bu/ac US**	**10.9% S/U**	**$3.15 /bu**	**420 mln bu crop**

Adjusted KSU Corn and Grain Sorghum Budget Breakeven Cost Calculations with 10% & 25% Higher Yields

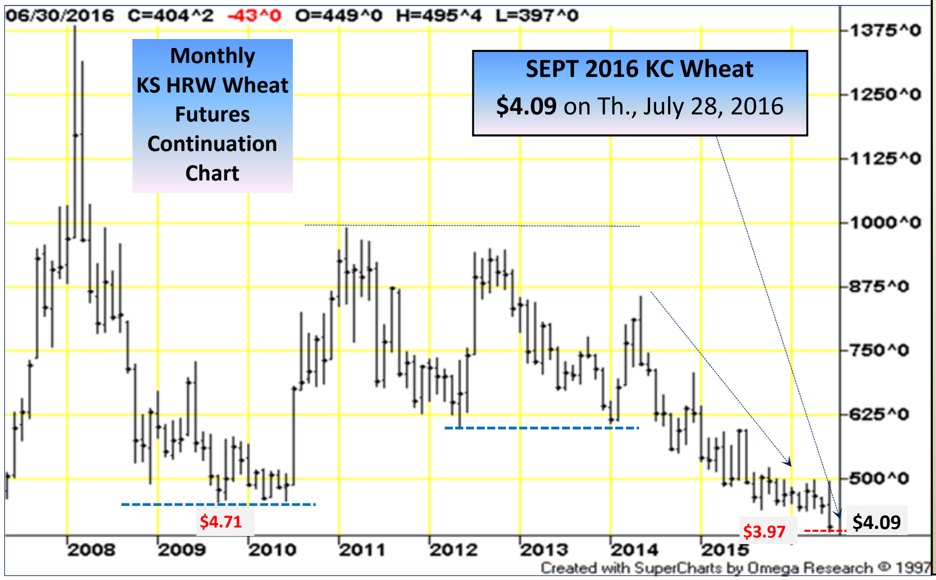
	Projected Yield / acre	Total Cost per acre	Total Cost / bu @ KSU Yield	Cost / bu @ 10% Higher Yield	Cost / bu @ 25% Higher Yield
2016 KSU Corn Budgets					
A. Northeast Kansas – Non-irrigated	137 bu	$495.92	$3.62	$3.29 (150.7 bu)	$2.90 (171.2 bu)
B. Southeast Kansas – Non-irrigated	117 bu	$410.91	$3.51	$3.22 (127.7 bu)	$2.81 (146.2 bu)
C. North Central Kansas – Non-irrigated	107 bu	$385.35	$3.60	$3.27 (117.7 bu)	$2.88 (133.7 bu)
D. South Central Kansas – Non-irrigated	94 bu	$358.04	$3.81	$3.46 (103.4 bu)	$3.05 (117.5 bu)
E. Northwest Kansas – Non-irrigated	84 bu	$308.68	$3.67	$3.34 (92.4 bu)	$2.94 (105.0 bu)
F. Southwest Kansas – Non-irrigated	66 bu	$298.06	$4.52	$4.11 (72.6 bu)	$3.61 (82.5 bu)
D. North Central Kansas – Irrigated	213 bu	$757.06	$3.55	$3.23 (234.3 bu)	$2.84 (266.2 bu)
E. Northwest Kansas – Irrigated	239 bu	$890.67	$3.73	$3.38 (262.9 bu)	$2.98 (298.8 bu)
F. Southwest Kansas – Irrigated	210 bu	$860.03	$4.10	$3.72 (231.0 bu)	$3.28 (262.5 bu)
2016 KSU Grain Sorghum Budgets					
A. Northeast Kansas – Non-irrigated	90 bu	$375.30	$4.17	$3.79 (99.0 bu)	$3.34 (112.5 bu)
B. Southeast Kansas – Non-irrigated	80 bu	$282.67	$3.53	$3.21 (88.0 bu)	$2.83 (100.0 bu)
C. North Central Kansas – Non-irrigated	93 bu	$303.40	$3.26	$2.97 (102.3 bu)	$2.61 (116.2 bu)
D. South Central Kansas – Non-irrigated	81 bu	$268.24	$3.31	$3.01 (89.1 bu)	$2.65 (101.2 bu)
E. Northwest Kansas – Non-irrigated	78 bu	$252.09	$3.23	$2.94 (85.8 bu)	$2.59 (97.5 bu)
F. Southwest Kansas – Non-irrigated	76 bu	$255.41	$3.36	$3.06 (83.6 bu)	$2.69 (95.0 bu)

IV. Wheat Market Outlook

Daily SEPT 2016 HRW Futures



Monthly Kansas HRW Wheat eFutures



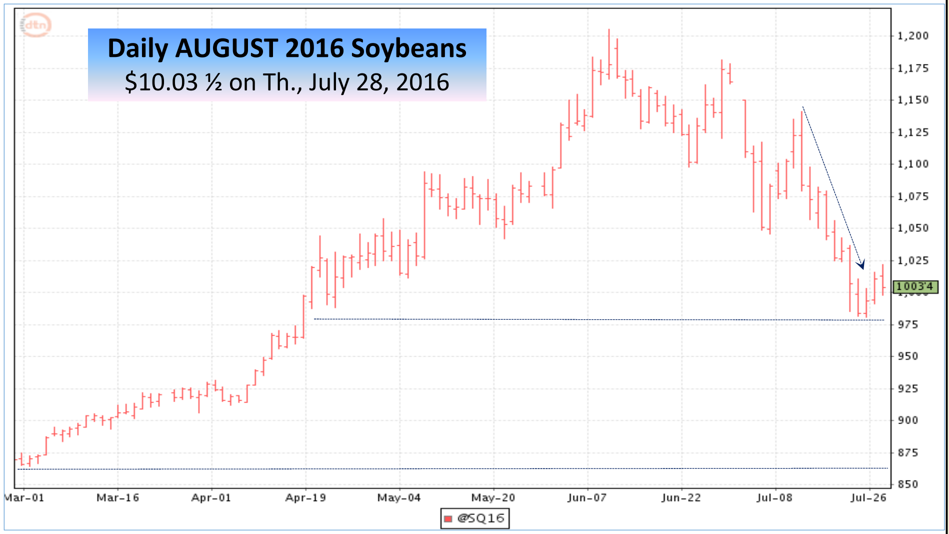
Key Wheat Supply-Demand Factors:

- **U.S. All Wheat Exports: "Positive" Short Term Export Shipments** with "**neutral-positive**" **long run** export prospects in "new crop" MY 2016/17 (Started 6/1/2016)
  - Weekly Export Shipments wk of 7/21/2016 for "new crop" MY 2016/17 = 21.6 mb vs 18.2 mb /wk needed to meet USDA's July 12th projn of 925 mb exports
  - Total shipments through 7/21/2016 for "new crop" MY 2016/17 = 123.7 mb i.e., 13.3% of 925 mb USDA projn with 15.4% of MY complete (8/52 weeks)
  - Total shipments + new sales 7/21/2016 for "new crop" MY 2016/17 = 358.7 mb i.e., 38.8% of 925 mb USDA projn with 15.4% of MY complete (8/52 weeks)
- **U.S. HRW Wheat Exports: "Positive" Short Term Export Shipments** with "**neutral-positive**" **long run** export prospects in "new crop" MY 2016/17 (Started 6/1/2016)
  - Weekly Export Shipments wk of 7/21/2016 for "new crop" MY 2016/17 = 12.1 mb vs 6.17 mb /wk needed to meet USDA's July 12th projn of 325 mb exports
  - Total shipments through 7/21/2016 for "new crop" MY 2016/17 = 53.7 mb i.e., 16.5% of 325 mb USDA projn with 15.4% of MY complete (8/52 weeks)
  - Total shipments + new sales 7/21/2016 for "new crop" MY 2016/17 = 137.0 mb i.e., 42.16% of 325 mb USDA projn with 15.4% of MY complete (8/52 weeks)
- **"Negative" World & U.S. Wheat S/D Fundamentals**

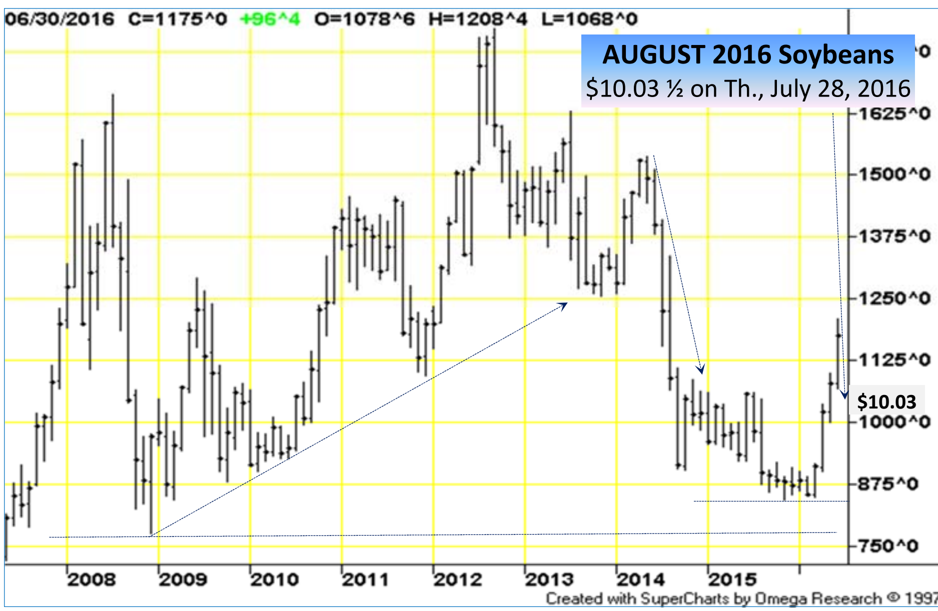
Mktg Yr	World % S/U	U.S. % S/U	U.S. $/bu	
2007/08	20.9% S/U	13.2% S/U	$6.48 /bu	1,263 mb exports
2008/09	26.6% S/U	28.7% S/U	$6.78 /bu	1,015 mb exports
2009/10	31.3% S/U	48.6% S/U	$4.87 /bu	879 mb exports
2010/11	30.4% S/U	36.4% S/U	$5.70 /bu	1,291 mb exports
2011/12	28.7% S/U	33.4% S/U	$7.24 /bu	1,051 mb exports
2012/13	25.8% S/U	29.9% S/U	$7.77 /bu	1,012 mb exports
2013/14	28.1% S/U	24.2% S/U	$6.87 /bu	1,176 mb exports
2014/15	30.8% S/U	37.4% S/U	$5.99/bu	854 mb exports
2015/16 USDA	**34.6% S/U**	**50.6% S/U**	**$4.89 /bu**	777 mb exports
2016/17 USDA	**34.8% S/U**	**49.0% S/U**	**$3.80 /bu**	925 mb exports

V. Soybean Market Outlook

Daily AUGUST 2016 Soybean Futures



Monthly Soybean eFutures



Key Soybean Supply-Demand Issues:

- **U.S. Soybean Exports: "positive" Short Run Export Shipments in MY 2015/16 and "positive" Forward Sales**
  - Export Shipments for week of 7/21/2016 for "current" MY 2015/16 = 25.7 mb vs 20.15 mb/wk needed to meet USDA's July 12th projn of 1.795 bb exports
  - Total shipments through 7/21/2016 for "current" MY 2015/16 = 1.674 bb i.e., 93.3% of 1.795 bb USDA projn with 88.5% of MY complete (46/52 weeks)
  - Total shipments & new sales (7/21/2016) for "current" MY 2015/16 = 1.910 bb i.e., 106.4% of 1.795 bb USDA projn with 88.5% of MY complete (46/52 weeks)
  - Total new sales (7/21/2016) for "new crop" MY 2016/17 = 0.336 bb i.e., 17.5% of 1.920 bb USDA projn with 0.0% of MY complete (0/52 weeks)
- **U.S. Soybean Meal Exports: "positive" Short Run Export Shipments in MY 2015/16 and "positive" Forward Sales**
  - Export Shipments for week of 7/21/2016 for "current" MY 2015/16 = 229,200 mt vs 198,200 mt/wk needed to meet USDA's July 12th projn of 10.614 mmt exports
  - Total shipments through 7/21/2016 for "current" MY 2015/16 = 8.623 mmt i.e., 81.2% of 10.614 mmt USDA projn with 80.8% of MY complete (42/52 weeks)
  - Total shipments & new sales (7/21/2016) for "current" MY 2015/16 = 10.259 mmt i.e., 96.65% of 10.614 mmt USDA projn with 80.8% of MY complete (42/52 weeks)
  - Total new sales (7/21/2016) for "new crop" MY 2016/17 = 0.336 bb i.e., 17.5% of 1.920 bb USDA projn with 0.0% of MY complete (0/52 weeks)
- **World & U.S. Soybean Supply-Demand Fundamentals**

Mktg Yr	World % S/U	U.S. % S/U	U.S. $/bu	
2007/08	22.9% S/U	6.7% S/U	$10.10 /bu	1.159 bb expts
2008/09	19.4% S/U	4.5% S/U	$ 9.97 /bu	1.279 bb expts
2009/10	25.2% S/U	4.5% S/U	$ 9.59 /bu	1.499 bb expts
2010/11	27.8% S/U	6.6% S/U	$11.30 /bu	1.505 bb expts
2011/12	20.4% S/U	5.4% S/U	$12.50 /bu	1.365 bb expts
2012/13	21.1% S/U	4.5% S/U	$14.40 /bu	1.328 bb expts
2013/14	22.5% S/U	2.7% S/U	$13.00 /bu	1.638 bb expts
2014/15	26.1% S/U	4.9% S/U	$10.10 /bu	1.843 bb expts
2015/16USDA	**22.7% S/U**	**9.2% S/U**	**$9.05 /bu**	1.760 bb expts
2016/17USDA	**20.4% S/U**	**7.3% S/U**	**$9.50 /bu**	1.900 bb expts