

"Winning-the-Game" Grain Marketing Webinar

Kansas State University

April 17, 2023

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KANSAS STATE

Department of Agricultural Economics



I. Grain Futures Closes, Changes & Market Carry as of Sunday, April 16, 2023

CME Corn Futures 4/17/2023 at 1:32 a.m.			CME Soybean Futures 4/17/2023 @ 1:40 a.m.			CME Kansas HRW Wheat 4/17/2023 6:30 a.m.					
Month	Close	Change	Carry /mo	Month	Close	Change	Carry/mo	Month	Close	Change	Carry/mo
May ^{Lead} 23	\$6.64	₿ \$0.02 ¼		May ^{Lead} 23	\$15.03 1/4	₩ S0.02 ¾		May ^{Lead} 23	\$8.71 1/2	₿ \$0.07 ¼	-
July 23	\$6.33	₿ \$0.02 ¾	-\$0.1550	July 23	\$14.71 1/2	û \$0.04 ⅓	-\$0.15875	July ^{Hvst} 23	\$8.58	₽ \$0.05 ¼	-\$0.07
Sept 23	\$5.67 1/4	₿ \$0.00 ½	-\$0.32875	Aug 23	\$14.19 1/4	₩ \$0.03 ¾	-\$0.5225	Sept 23	\$8.53 3/4	Ð \$0.04	-\$0.01875
Dec ^{Hvst} 23	\$5.59 3/4	₿ \$0.00 ¼	-\$0.0250	Sep 23	\$13.37 1/4	₩ \$0.02 ¾	-\$0.7925	Dec 23	\$8.53 3/4	8 \$0.03 ½	+\$0.01875
Mar 24	\$5.68	& \$0.00 ¼	+\$0.02917	Nov ^{Hvst} 23	\$13.04	₩ \$0.02 1/2	-\$0.16	Mar 24	\$8.51 1/4	Ð \$0.04	-\$0.00667
May 24	\$5.731/4	₽ \$0.00 ¼	+\$0.02625	Jan 24	\$13.09 3/4	₩ \$0.02	+\$0.03125	May 24	\$8.36	8 \$0.10 ¼	-\$0.04 ³⁷⁵
July 24	\$5.73 1/2	8 S0.01 ½	+\$0.00125	Mar 24	\$13.04 1/2	☆ \$0.01 ¾	-\$0.0275	July ^{Hvst} 24	\$8.03 3/4	8 \$0.08 ¾	-\$0.20
Sept 24	na	na	na	May 24	\$13.07 3/4	₢ \$0.03	+\$0.00875	Sept 24	na	na	na



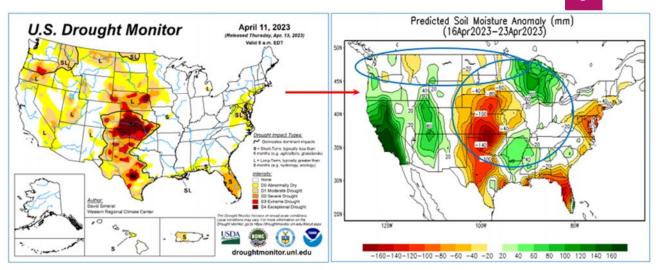
USDA National Daily Ethanol Report

Agricultural Marketing Service Livestock, Poultry, and Grain Market News

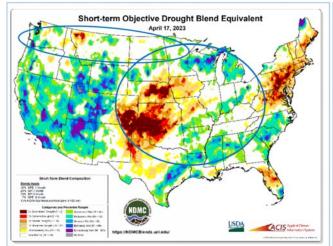
April 14, 2023

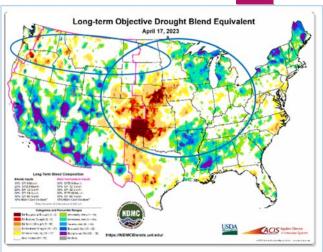
			US#	2 Yellow Corn -Bulk		
Ethanol Plant						
State/Province/Region	Sale Type	Basis (¢/bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Illinois	Bid	-4.00K to 72.00N	UNCH	6.4825-6.9750	DN 0.0375-DN 0.0225	6.6750
Indiana	Bid	-10.00N to 65.00N	DN 10-UNCH	6.1550-6.9050	DN 0.1225-DN 0.0225	6.5936
Iowa East	Bid	27.00N to 50.00K	UNCH	6.5250-7.0225	DN 0.0225-DN 0.0375	6.7077
Iowa West	Bid	42.00N to 87.00N		6.6750-7.1250	DN 0.0225-DN 0.0150	6.8755
Kansas	Bid	38.00K to 65.00K	UNCH	6.9025-7.1725	DN 0.0375	7.0375
Michigan	Bid	-15.00N to 7.00N		6.1050-6.3250	DN 0.0225-DN 0.0650	6.2219
Minnesota	Bid	12.00N to 65.00N		6.3750-6.9050	DN 0.0225-DN 0.1250	6.6117
Missouri	Bid	0.00K to 35.00K	UNCH	6.5225-6.8725	DN 0.0375	6.7150
Nebraska	Bid	55.00N to 80.00K	UNCH	6.8050-7.3225	DN 0.0225-DN 0.0375	6.9520
Ohio	Bid	20.00N to 40.00N		6.4550-6.6550	UP 0.1775-DN 0.0050	6.5554
South Dakota	Bid	15.00N to 75.00N	UNCH	6.4050-7.0050	DN 0.0225	6.7317
Wisconsin	Bid	-10.00N to -6.00K	UNCH	6.1550-6.4625	DN 0.0225-DN 0.0375	6.3295

4/17/2023 (Morning Trade)	Cash Grain &	Harvest Con	tract Prices	@ Kansas Grai	in Elevators	
	Representing the	highest bids avail	lable at each loca	ation		
Cash Market Spot & FC Bids	Colby Area	Salina Area	Topeka Area	Garden City Area	Hutchinson Area	Columbus Area
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Corn Spot Cash\$	\$7.15	\$7.10	\$6.96	\$7.91	\$7.44	\$7.31
Corn Spot Cash Basis	\$0.58	\$0.53	\$0.39	\$1.34	\$0.87	\$0.74
Corn Harvest FC\$: Fall ²⁰²³	\$5.52	\$5.47	\$5.33	\$6.28	\$5.63	\$5.38
Corn Harvest FCS Basis	(\$0.10)	(\$0.15)	(\$0.29)	\$0.66	\$0.01	(S0.24)
Grain Sorghum Spot Cash\$	\$6.80	\$7.00	\$7.05	\$7.06	\$7.04	\$6.72
Sorghum Spot Cash Basis	\$0.23	\$0.43	\$0.48	\$0.49	\$0.47	\$0.15
Grain Sorghum Harvest FC\$: Fall 2022	\$5.22	\$5.47	\$5.28	\$5.53	\$5.38	\$5.18
Sorghum Harvest FC\$ Basis	(50.40)	(\$0.15)	(\$0.34)	(\$0.09)	(50.24)	(50.44)
Soybean Spot Cash\$	\$14.38	\$14.74	\$14.86	\$14.82	\$14.99	\$14.93
Soybean Spot Cash Basis	(50.70)	(\$0.34)	(\$0.22)	(\$0.26)	(\$0.09)	(\$0.15)
Soybean Harvest FC\$: Fall 2022	\$12.11	\$12.57	\$12.51	\$12.16	\$12.55	\$12.35
Soybean Harvest FCS Basis	(\$0.95)	(\$0.48)	(\$0.55)	(\$0.90)	(\$0.50)	(\$0.71)
KC HRW Wheat Harvest Spot Cash\$	\$8.32	\$8.51	\$8.48	\$8.41	\$8.56	\$8.12
HRW Wheat Harvest Spot Cash Basis	(\$0.40)	(\$0.21)	(\$0.23)	(\$0.31)	(\$0.15)	(\$0.60)
KC HRW Wheat FC\$ - Harvest 2023	\$8.16	\$8.14	\$8.23	\$8.23	\$8.21	\$7.99
HRW Wheat Harvest FC\$ Basis	(50.38)	(\$0.40)	(\$0.31)	(\$0.31)	(\$0.33)	(\$0.55)

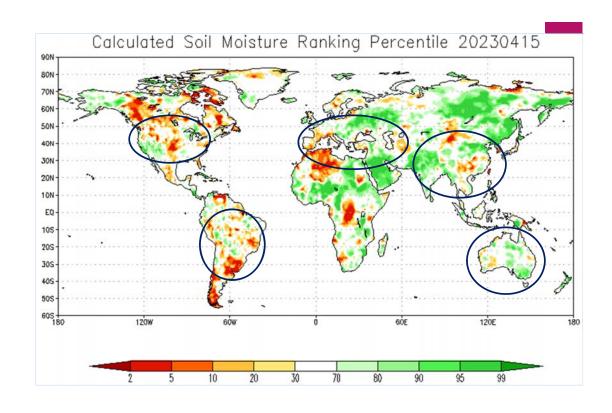














Grain Market Outlook 2023/24



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in Kansas, the U.S. & Globally

- "Tight!" 2023 Global Corn, Other Grain & Oilseed Stocks
 - On going importance of South America's 2023 corn, soybean wheat
 - Occurring &/or Anticipated in 2023:
 - o *Drought* has continued in **Argentina**
 - Smaller Crops & Exports in the future from Ukraine

South America Corn-Soybean Calendar

- □ South America Planting Influences ⇒ "Bid for Acres"
 - Brazil & Argentina Corn & Soybean Crop Calendar
 - o Brazil
 - Corn: 1st crop Planting October-December
- <u>Soybeans</u>: *Planting* October-December
- Corn: 2nd crop *Planting* January-February
- Harvest: March-June

- Argentina
 - Corn: Planting mid September-December
- Harvest: mid March-early June
- Soybeans: 1st crop Planting November-December ⇒
- Harvest: Late March-early May
- Soybeans: 2nd crop Planting December-early Jan. ⇒ Harvest: mid April mid June

Grain Market Outlook 2023/24......

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- ☐ Impact of Ongoing & Possible Geopolitical Conflicts?? In 2023
 - Ukraine-Russia War?: (-) Prospects for ending & grain trade
 - China-Taiwan??? IF this occurs, it would impact the global economy along with U.S. grain trade Note recent China-Taiwan tensions***
 - Would impact U.S. soybeans, grain sorghum, likely all U.S.
 agricultural commodities including U.S. corn (\$↑♥??)^{D. OBrien}

What to anticipate in Year 2023

2023 Spring Planting of Feedgrains & Oilseeds

- With <u>tight stocks</u> across crops any threats to planting 2023 U.S.
 <u>corn</u> or <u>soybeans</u> could cause *STRONG* price volatility
 - o **NOV²⁰²³ Soybean futures** @ \$13.09 /bu 4/17/2023 a.m.
 - o DEC²⁰²³ Corn futures @ \$5.62 ½ /bu 4/17/2023 a.m.
 - > 2023 "New Crop" Soy/Corn \$ Ratio = \$13.09 ÷ \$5.62 1/4 = 2.33 (vs 2.3 Neutral)

Soybeans ≈ Corn

"New crop" price competition likely for 2023 planted acres between
 Feedgrains & Oilseeds ⇒ mid-April through May 2023

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What to anticipate: Year 2023

- □ **USDA Reports** ⇒ Often a "driver" of grain market volatility
 - **WASDE**: Jan. 12, 2/8, 3/8, 4/8, **5/12****, 6/9, 7/12, 8/11, 9/12.....
 - Planted Area: USDA Acreage Report June 30th
- □ <u>"Strong" Demand-Pull for Feedgrains in the Western Corn Belt</u>
 - Summer demand for "New Crop" supplies (i.e. "users scrambling!")
 - Possibility of "Inverted" futures & strong basis during Sep-Nov²⁰²³
 Quarter IF a short crop happens again in 2023 ⇒ What are the odds?

What to anticipate: The rest of Year 2023

Q? Are grain markets at risk to fall sharply in the last ½ of 2023?

- With "<u>tight" beginning stocks</u> across these crops less risk of major declines until at least <u>late spring</u> – early summer
- <u>THEN</u> the *risk* to grain sellers is that crop markets will discount the possibility of "short crops" in 2023 Late May-June???
 - ⇒ <u>IF</u> in Summer ²⁰²³ <u>U.S. & Foreign crop prospects</u> are "OK-to-Good", <u>THEN</u> grain markets likely "slide" lower into Fall 2023

Feedgrain Markets

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KANSAS STATE

Department of Agricultural Economics

CME Corn Futures Continuous Weekly to 4/14/2023

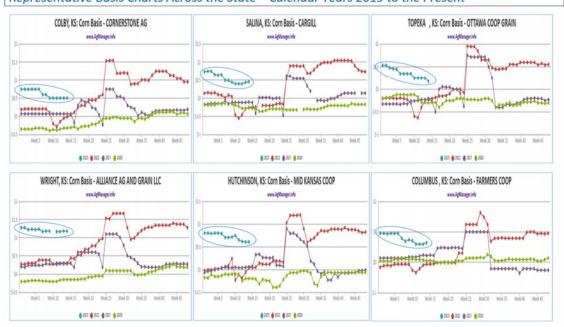


Daily CME MAY 2023 Corn Futures



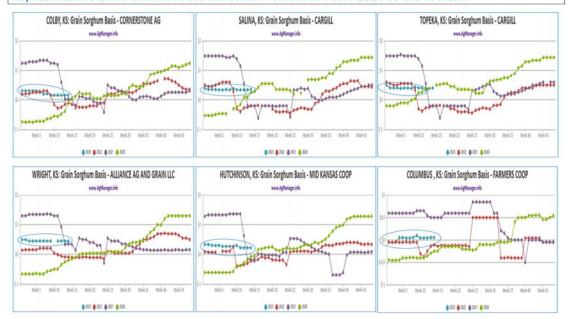


Representative Basis Charts Across the State – Calendar Years 2019 to the Present (4/12/2023)



Grain Sorghum Basis in Kansas

Representative Basis Charts Across the State – Calendar Years 2019 to the Present (4/12/2023)



Corn Seasonal Prices Kansas-U.S.

Long Term Seasonal \$ Trends + MY 2022/23 & "Next" MY 2023/24 As of 4/14/2023



U.S. Corn Supply-Demand Balance Sheet

"Current" MY 2022/23 & Proj. "New Crop" MY 2023/24 as of the 4/11/2023 USDA WASDE + KSU Ests.

ltem	USDA 2022/23 4/11/2023 WASDE 172.3 bu/ac 13.730 bb crop	A. USDA "New Crop" MY 2023/24 **Cemario #1 "High Yields" = 181.5 bu/ac 15.263 bb crop	B. USDA "New Crop" MY 2023/24 Scenario II "Average Yields" = 177.0 bu/ac 14.886 bb crop	
% Probability of Occurring (KSU)	75% ^{KSUest}	35%KSUest	65%KSUest	
Planted Area (million acres)	88.579	91.996	91.996	
Harvested Area (million acres)	79.207	84.096	84.096	
% Harvested/Planted Area	89.42%	91.41%	91.41%	
Yield / harvested acre (bu/ac)	173.3	181.5	177.0	
		Million Bushels		
Beginning Stocks (million bushels)	1,377	1,342	1,342	
Production (million bu.)	13,730	15,263	14,885	
Imports (million bu.)	40	25.0	25.0	
Total Supply (million bu.)	15,147	16,630	16,252	
Ethanol for fuel Use (million bu.)	5,250	5,325	5,325	
Food & Industrial Use (mln bu.)	1,399	1,419	1,419	
Seed Use (million bu.)	31	31	31	
Exports (million bu.)	1,850	2,275	2,275	
Feed & Residual Use (million bu.)	5,275	5,700	5,700	
Total Use (million bu.)	13,805	14,750	14,750	
Ending Stocks (million bu.)	1,342	1,880	1,502	
% Ending Stocks-to-Use	9.72%	12.75%	10.18%	
Days of Supply (% s/u x 365 days)	35.5 days	46.5 days	37.2 days	
U.S. Corn Average Farm Price (\$/bushel)	\$6.60 USDA \$6.14 KSU-Futures 4/14/2023	\$5.60 USDA \$5.02 KSU-Futures 4/14/2023	\$6.00 - \$6.25 KSU Estimate	

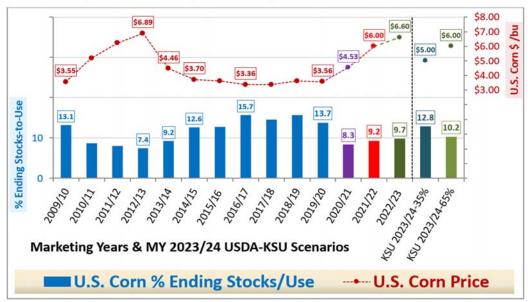
U.S. Corn Stocks & % Stocks-to-Use

MY 2012/13 thru "New Crop" MY 2023/24^{KSU Est} as of the April 11, 2023 USDA Reports



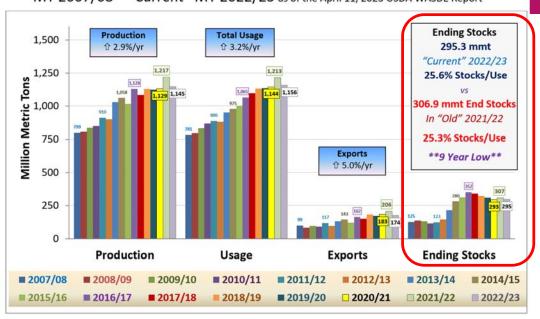
U.S. Corn % Stocks/Use vs Corn \$

MY 2009/10 - "New Crop" MY 2023/24 as of the 4/11/2023 USDA WASDE + KSU Ests.



World Corn Supply-Demand

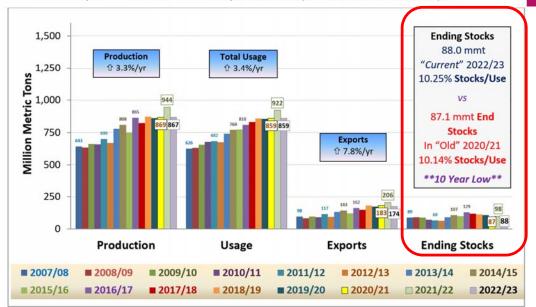
MY 2007/08 - "Current" MY 2022/23 as of the April 11, 2023 USDA WASDE Report

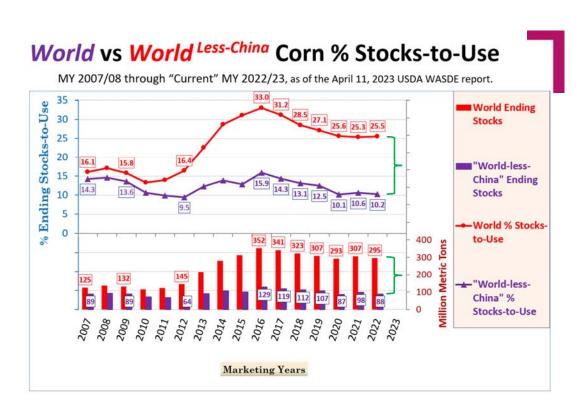


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"World Less-China" Corn Supply-Demand

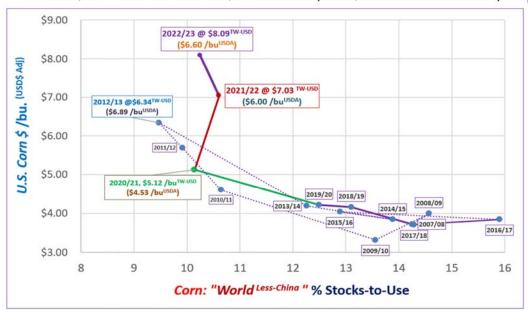
MY 2007/08 - "Current" MY 2022/23 as of the April 11, 2023 USDA WASDE Report





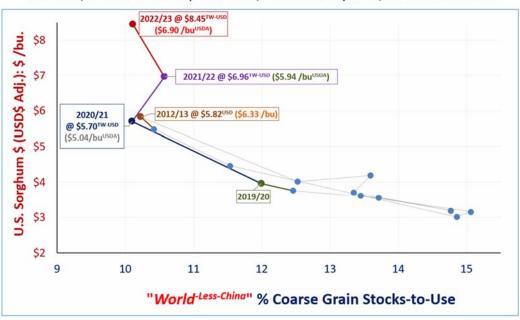
U.S. Corn \$USD\$ Adj. vs World Less-China % S/U

MY 2007/08 - "Current" MY 2022/23 as of the April 11, 2023 USDA WASDE Report



U.S. Sorghum \$'s USD\$ Adj. vs World Coarse Grain Less-China % S/U

MY 1975/76 thru "New Crop" MY 2022/23 as of the April 11, 2023 USDA WASDE





CME Soybean Futures Continuous Weekly to 4/14/2023

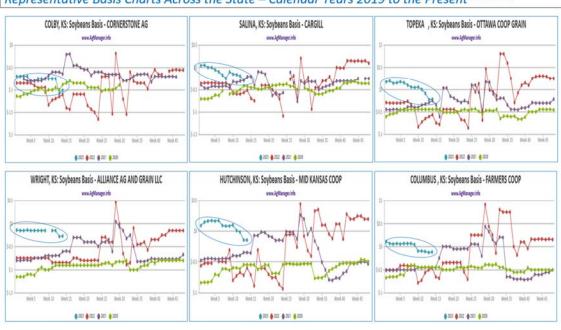


Daily MAY 2023 Soybean Futures



Soybean Basis in Kansas

Representative Basis Charts Across the State – Calendar Years 2019 to the Present (4/12/2023)



Soybean Seasonal Prices Kansas-U.S.

Long Term Seasonal \$ Trends + MY 2022/23 & "Next" MY 2023/24 As of 4/14/2023



U.S. Soybean Supply-Demand Balance Sheet

"New Crop" MY 2023/24 as of the April 11, 2023 USDA WASDE with KSU Scenarios

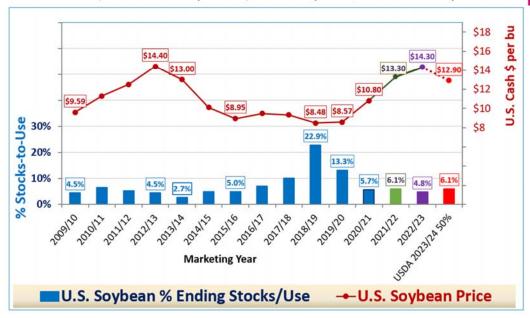
ltem	A. USDA WASDE – KSU Adj. "New Crop" 2023/24 April 11, 2023	B. KSU Scenario #1 "New Crop" 2023/24 Less Yield: 50.5 bu/ac + Rationed Use	C. KSU Scenario #2 "New Crop" 2022/23 Lower Yield: 49.0 bu/ac + More Rationed Use
% Probability of Occurring (KSU)	50%KSUest	35% ^{KSUest}	15%KSUest
Planted Area (million acres)	87.505	87.505	87.505
Harvested Area (million acres)	86.705	86.705	86.705
% Harvested/Planted Area	99.09%	99.08%	99.06%
Yield / harvested acre (bu/ac)	52.0	50.5	49.0
Beginning Stocks (million bushels)	210	210	210
Production (million bu.)	4,509	4,379	4,249
Imports (million bu.)	15	15	15
Total Supply (million bu.)	4,734	4,604	4,474
Domestic Crushings	2,310	2,295	2,270
Exports	2,025	2,010	1,085
Seed	102	102	102
Residual	24	22	17
Total Use	4,461	4,429	4,374
Ending Stocks	273	175	100
% Ending Stocks-to-Use	6.12%	3.95%	2.29%
Days of Supply (% S/U x 365 days)	22.3 days	14.4 days	8.3 days
U.S. Avg. Farm Price (\$/bu)	\$12.70 USDA	\$15.50 KSU	\$17.25 KSU

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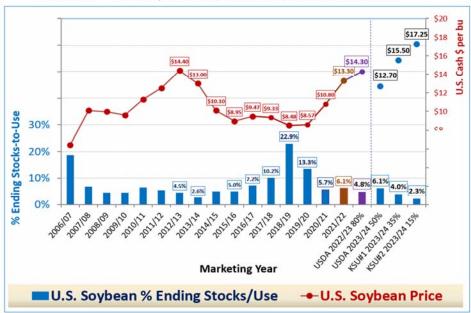
U.S. Soybean % Stocks/Use vs U.S. \$'s

MY 2009/10 - "Next Crop" 2023/24 as of April 11, 2023 USDA Reports



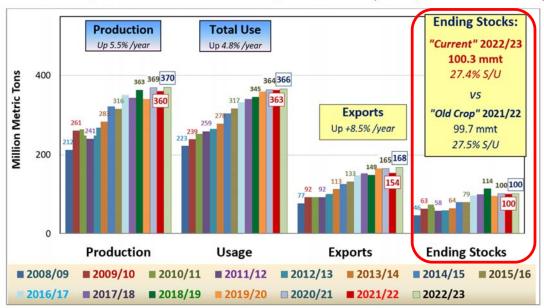
U.S. Soybean % Stocks/Use vs U.S. Cash \$

MY 2006/07 - "New Crop" MY 2023/24 as of the April 11, 2023 USDA Reports



World Soybean Usage & End Stocks

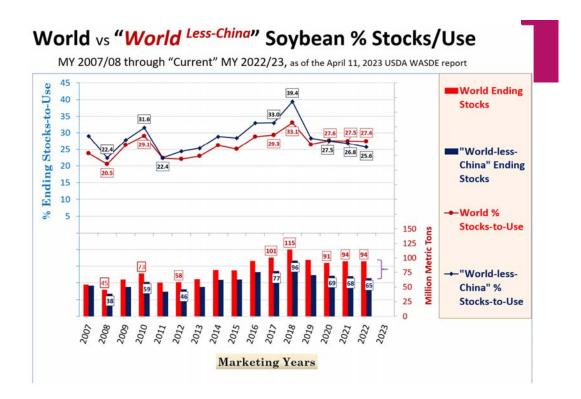
MY 2008/09 thru "Current" MY 2022/23 as of the April 11, 2023 WASDE



World Less-China Soybean Use & End Stocks

MY 2008/09 - "Current" MY 2022/23 as of the April 11, 2023 WASDE





U.S. Soybean \$USD\$ Adj vs "World Less-China" % S/U

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MY 2007/08 thru "Current" MY 2022/23 as of the April 11, 2023 WASDE Report





CME Soybean Futures Continuous Weekly to 4/17/2023

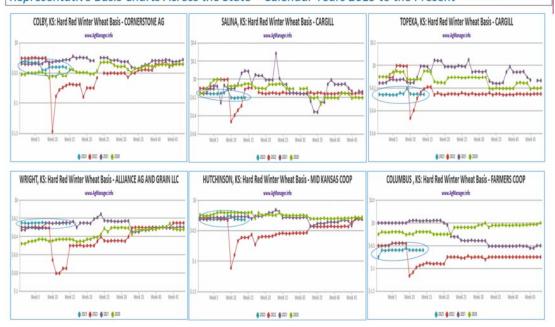






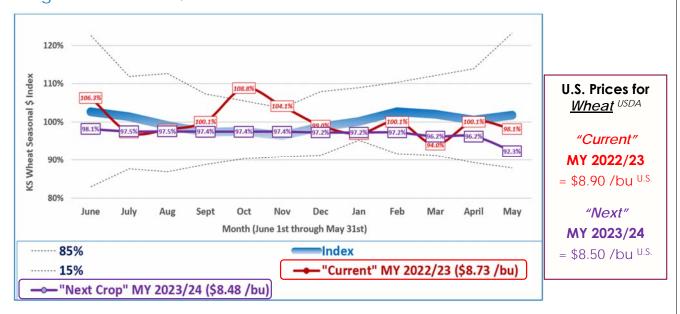
Hard Red Winter Wheat Basis in Kansas

Representative Basis Charts Across the State – Calendar Years 2019 to the Present (4/12/2023)



HRW Wheat Seasonal Prices Kansas-U.S.

Long Term Seasonal \$ Trends + MY 2022/23 & "Next" MY 2023/24 As of 4/14/2023



U.S. Wheat Market Outcomes for MY 2023/24^{KSU}

USDA & KSU Projections based on the April 11, 2023 USDA WASDE Report + KSU Scenarios

Item	USDA "Current" 2022/23 Feb. 8, 2023 WASDE	KSU Scenario #1 "New" 2023/24 USDA: 49.2 bu/ac 33.25% Stocks/Use	KSU Scenario #2 "New" 2023/24 KSU: 46.0 bu/ac 29.15% Stocks/Use	"New" 2023/24 KSU: 42.0 bu/ac 25.15% Stocks/Use
% Probability of Happening KNU est.	80% prob	45% prob.	45% prob	10% prob.
Planted Area (million acres)	45.738	49.855	49.855	49.855
Harvested Area (million acres)	35.480	38.675	38.675	38.675
% Harvested/Planted Area	77.57%	77.57%	77.57%	77.57%
Yield / harvested acre (bu/ac)	46.5	49.2	46.0	42.0
		N.	∕illion	
Beginning Stocks	698	598	598	598
Production	1,650	1,903	1,779	1,624
Imports	125	120	120	120
Total Supply (million bushels)	2,473	2,621	2,497	2,342
Food Use	975	975	975	975
Seed Use	70	70	70	70
Exports	775	825	775	700
Feed & Residual Use	55	100	75	47
Total Use (million bushels)	1,875	1,967	1,892	1,792
Ending Stocks (million bushels)	598	654	605	550
% Ending Stocks-to-Use	31.89%	33.25%	31.97%	30.69%
Days of Supply (% S/U x 365 days)	116 days	129 days	117 days	112 days
U.S. Wheat Avg. Farm Price (\$/bushel)	\$8.90 Vs \$8.81 /bu KSU-HRW Futures	\$8.50 Vs \$8.81 /bu. KSU-HRW Futures Fest	\$8.85 Vs \$8.81 /bu. KSU-HRW Futures Fest	\$9.50 Vs \$8.81 /bu. KSU-HRW Futures Fest



U.S. Wheat Ending Stocks & % S/U

MY 2006/07 thru "Next Crop" MY 2023/24 - April 11, 2023 USDA WASDE



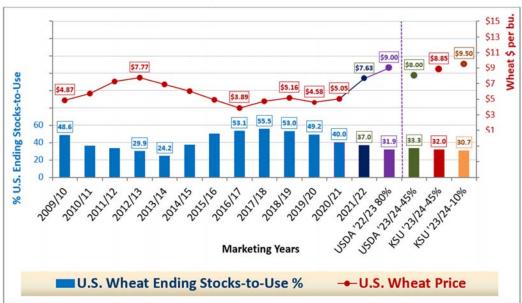
U.S. Wheat % Stocks/Use vs Cash \$'s

MY 2009/10 thru "New Crop" MY 2023/24 - As of the April 11, 2023 USDA WASDE



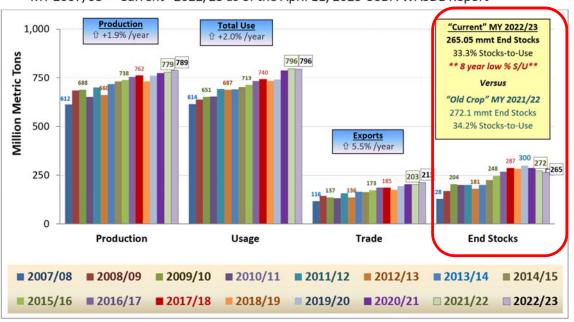
U.S. Wheat % Stocks/Use vs U.S. Cash \$'s

MY 2009/10 thru "New Crop" 2023/24 - As of the April 11, 2023 WASDE + KSU Ests.



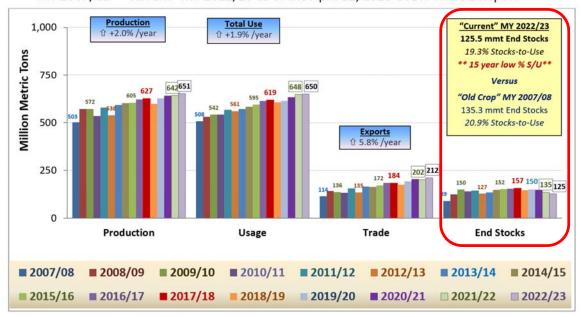
World Wheat Usage & Ending Stocks

MY 2007/08 - "Current" 2022/23 as of the April 11, 2023 USDA WASDE Report



"World Less-China" Wheat Usage & Ending Stocks

MY 2007/08 - "Current" MY 2022/23 as of the April 11, 2023 USDA WASDE Report



World vs "World Less-China" Wheat Stocks & % S/U

MY 2007/08 through "Current" MY 2022/23 as of the April 11, 2023 USDA WASDE report



U.S. Wheat \$ Trade-Wtd USD\$ vs World Less-China % S/U

MY 2008/09 through "Current" 2022/23 as of the April 11, 2023 USDA WASDE

