



## in Kansas, the U.S. & Globally

- 1) "Tight!!!!" Global Grain & Oilseed Stocks in 2022-2023
  - The importance of South America's 2023 soybean & corn crops
  - "Little No" margin for 2023 shortfalls among global wheat producers
- 2) Corn Production damage in the Western-Central Plains in 2022
  - Western Kansas / OK / TX / NE Corn Basis strength Historic++
  - Damaged **2022 U.S. Corn Production**  $\ge 13.944$  billion bu???

# **Grain Market Outlook** 2022-2023......

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- 3) Continuance of dry La Nina Weather Pattern in 2022-2023???
  - "Chances for La Nina are expected to gradually decrease from 86% to 60% during Dec-Feb 2022-2023" Reuters August 11, 2022
  - "A rare 3-peat La Nina is expected this winter." Weather Science 8/12/2022
- 4) Continued high 2023 Fertilizer & other Crop Input Costs?
  - High natural gas & logistics costs, w. supply-chain challenges
  - May continue to <u>limit</u> **2023** U.S. Corn Acres  $-\approx 89 90$  million????

## Grain Market Outlook 2022-2023......

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- 5) U.S. HRW Winter Wheat Seedings Fall 2022 for Harvest 2023
  - Key: Soil Moisture prospects in the Central-Southern Plains Sep-Oct 2022
  - <u>Likely</u>: Strong Crop Revenue Insurance <u>Planning Prices</u>, + other factors
- 6) Impact of Ongoing & Possible Geopolitical Conflicts 2022-2023
  - *Ukraine-Russia War???*: Prospects for de-escalation & grain trade?
  - China-Taiwan??? If happens, would impact global economy & U.S. grain trade (U.S. soybeans, grain sorghum, likely all ag commodities)

# Grain Market Outlook 2022-2023......

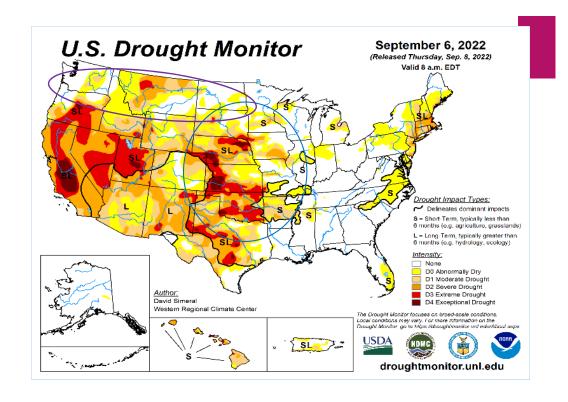
- 7) U.S./Foreign Ag response in 2023 to current grain prices?
  - Crop Acres? Normally,  $\hat{1}$  prices  $\rightarrow \hat{1}$  crop acres, BUT <u>ALL</u>  $\hat{1}$ 's are  $\hat{1}$
  - Crop Costs? IF high fertilizer & other crop costs, limits Corn Acres Global
  - Rationing Grain Use: Evidence of this in the September WASDE #s
- 8) Reasons for High Grain Prices in Spring 2022?
  - #1: Ukraine-Russia War;
  - #2: Delayed plantings in the Northern Plains

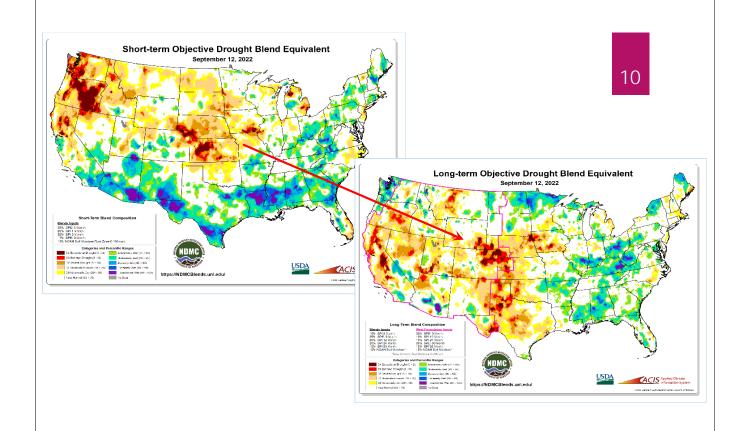
- 7) Overall Prospects for 2023 Grain Markets???
  - Grain Prices supported @ High Levels until grain markets are confident of larger crops & likely rebuilding of stocks
    - Both <u>"2022/23 Old Crop Cash \$'s"</u> & "2023/24 New Crop Forward Bids" vulnerable to declines in late Spring Summer<sup>2023</sup> into 2023 Fall harvest
  - <u>Ukraine-Russia War</u>: Continued impact on World grain markets ?????
  - <u>Impact of South America Crop Development</u>: Brazil & Argentina crop prospects to drive U.S. price volatility during Jan-August 2023

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

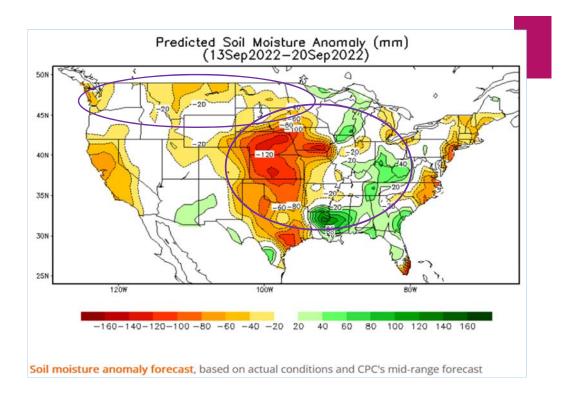
- Argentina
  - <u>Corn</u>: *Planting* mid September-December
- ⇒ Harvest: mid March-early June
- Soybeans: 1st crop Planting November-December ⇒
- Harvest: Late March-early May
- Soybeans: 2<sup>nd</sup> crop Planting December-early Jan. ⇒
- Harvest: mid April mid June

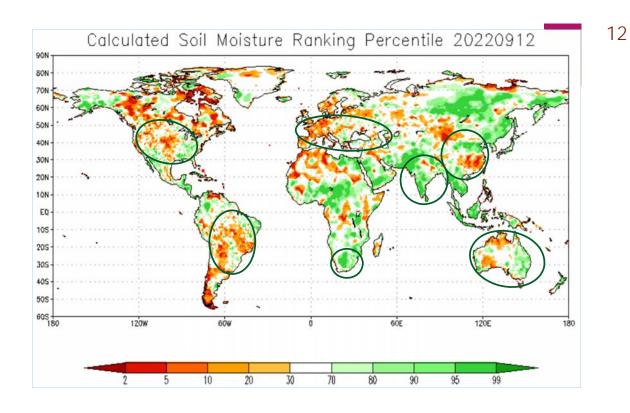








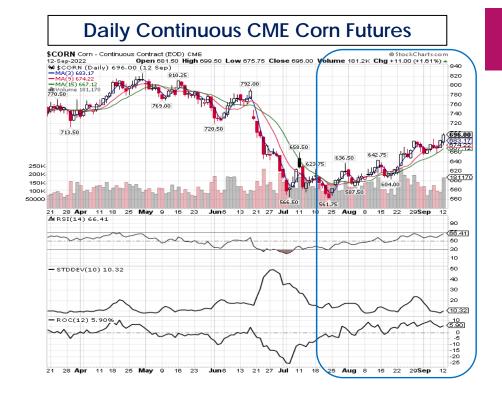












Date						
9/13/2022 (Closing Mkts)						
<b>Grain Futures Contracts</b>	Closing \$					
DEC 2022 Corn (2022 Harvest contract)	\$6.9275					
DEC 2023 Corn (2023 Harvest Contract)	\$6.3300					
9/13/2022 (Closing Mkts)	Cash Grain & I	Harvest Cont	ract Prices @	Kansas Grai	n Elevators	
	Representing the hig	ghest bids availal	ole at each locatio	on		
Cash Market Spot & FC Bids	Colby	Salina	Topeka	Garden City	Hutchinson	Columbus Area
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Corn Spot Cash\$	\$7.83	\$7.83	\$7.38	\$8.18	\$7.93	\$7.73
Corn Spot Cash Basis	\$0.90	\$0.90	\$0.45	\$1.25	\$1.00	\$0.80
Corn Harvest FC\$: Fall <sup>2023</sup>	\$6.08		\$6.03	\$6.08	\$6.43	\$6.03
Corn Harvest FC\$ Basis	(\$0.25)		(\$0.30)	(\$0.25)	\$0.10	(\$0.30)

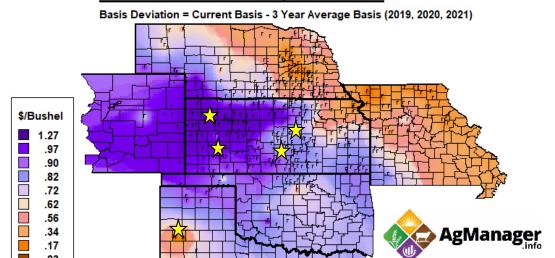
#### My DTN Cash Bids for Postal Code 79045, Radius 300 miles

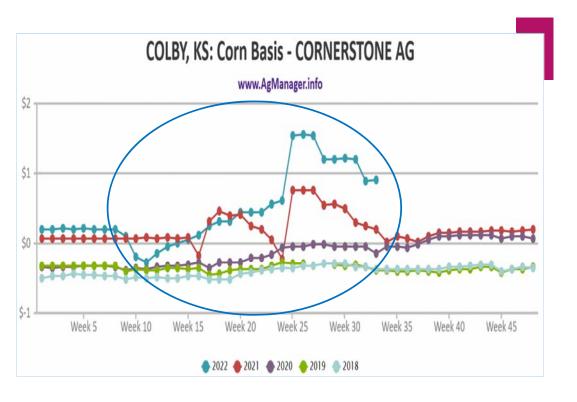
Corn Cash Bids near Hereford, Texas on Tuesday, Sept. 13, 2022

Currency/Units: USD/BU	Recalculate	)	View Cash Bids Overview		
Elevator/Location	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Oct 2023
ATTEBURY GRAIN- BLACK FRIONA, TX	8.28	8.28			
NORAG FLAGG, TX	7.13		-		
SKYLAND GRAIN BUSHLAND, TX		8.38		8.38	
NORAG HART, TX	7.13				
ATTEBURY GRAIN AMARILLO, TX	7.28	8.28		_	
ATTEBURY GRAIN TULIA, TX	8.23	8.23			
SKYLAND GRAIN OLTON, TX		8.38		8.38	
ATTEBURY GRAIN LLC EDMONSON, TX	8.28	8.28			
SKYLAND GRAIN HARTLEY, TX		8.38		8.38	
SKYLAND GRAIN PANHANDLE, TX		8.38		8.38	
DUMAS COOP DUMAS, TX	8.18	8.18			
DUMAS COOP-MWELL DUMAS, TX	8.28	8.28			-

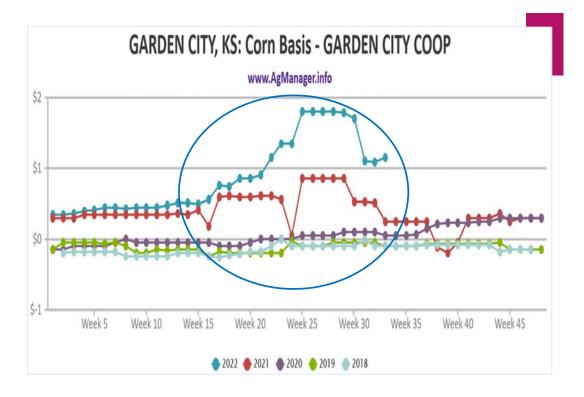
# CBT Dec Futures Price: \$6.71 \$/Bushel 1.50 90 81 43 31 21 -03 -28

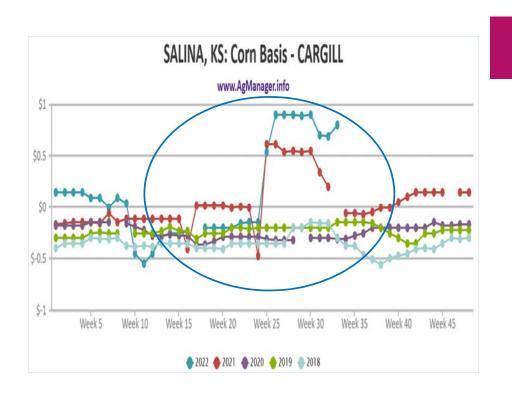
#### Corn Basis Deviation, 09-07-2022

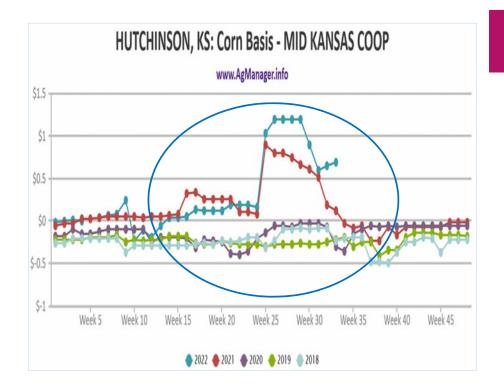












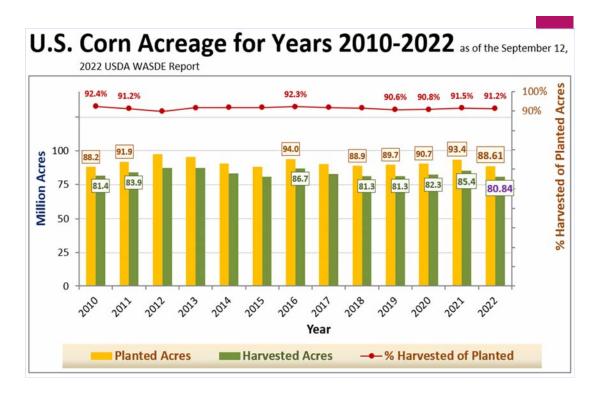


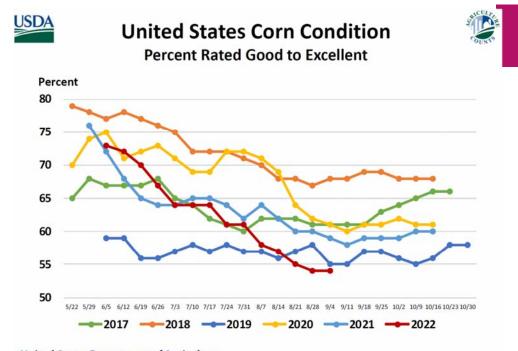
#### U.S. Corn Supply and Demand

	202	1/2022	2022/2023			
Item	Estimate	Change from August 12	Forecast	Change from August 12	Change from 2021/2022	
Planted area (million acres)	93.4	-	88.6	-1.2	-4.7	
Harvested area (million acres)	85.4	-	80.8	-1.0	-4.5	
Yield (bushels per acre)	177.0	-	172.5	-3.0	-4.5	
		/	Million bush	els		
Beginning stocks	1,235	3-0	1,525	-5	290	
Production	15,115		13,944	-415	-1,171	
Imports	25		25			
Total supply	16,375	(774)	15,494	-420	-881	
Feed and residual	5,600		5,225	-100	-375	
Food, seed, and industrial	6,775	-20	6,775	-50	-	
Ethanol	5,330	-20	5,325	-50	-5	
Domestic use	12,375	-20	12,000	-150	-375	
Exports	2,475	25	2,275	-100	-200	
Total use	14,850	5	14,275	-250	-575	
Ending stocks	1,525	-5	1,219	-170	-306	
			Percent -			
Stocks to use ratio	10.3	**	8.5	-1.0	-1.7	
		Do	llars per bu	shel		
Average market price	5.95		6.75	0.10	0.80	

-- No change. \*\* Rounds to zero.

September 12, 2022





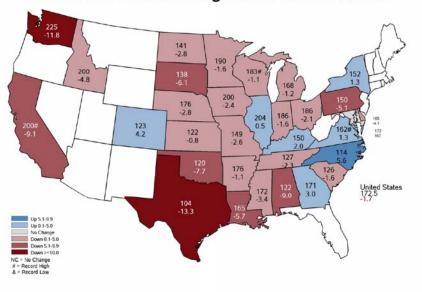
#### U.S. Corn Yields: 2000-2022 Final\*\* Accuracy of August 1st USDA Forecasts U.S. Corn Yield - Bu/Acre 180 170 172.5 160 Sept. 150 140 130 Forecast Error (Bu) 120 (12.4)<sup>(6.2)</sup> (0.3) \$\\ \phi\_0\p Year ■Change: (Final less 8/1 yield) ◆August 1st USDA Forecast ◆Final Yield



## September 2022 Corn Yield



**Bushels and Percent Change from Previous Month** 



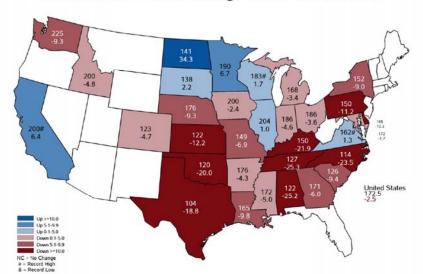
**United States Department of Agriculture National Agricultural Statistics Service** 

September 12, 2022



#### September 2022 Corn Yield **Bushels and Percent Change from Previous Year**





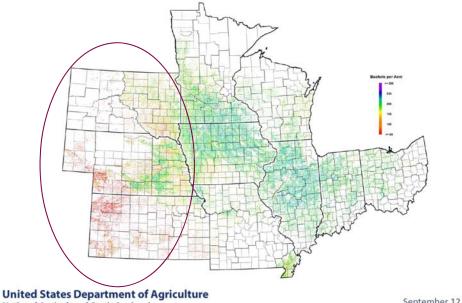
**United States Department of Agriculture National Agricultural Statistics Service** 

September 12, 2022



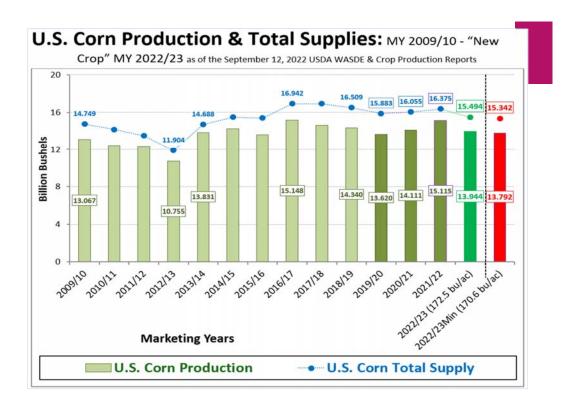
#### September 2022 Corn **NASA Terra MODIS Modeled Yield**

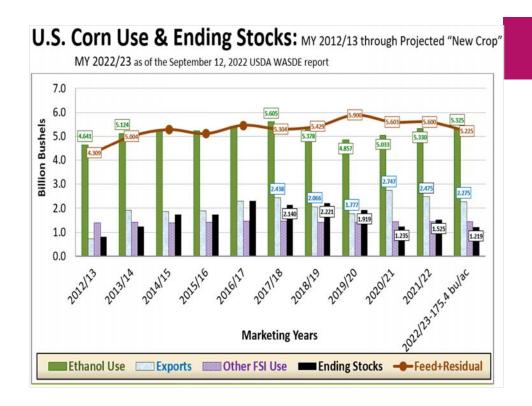




#### National Agricultural Statistics Service

September 12, 2022

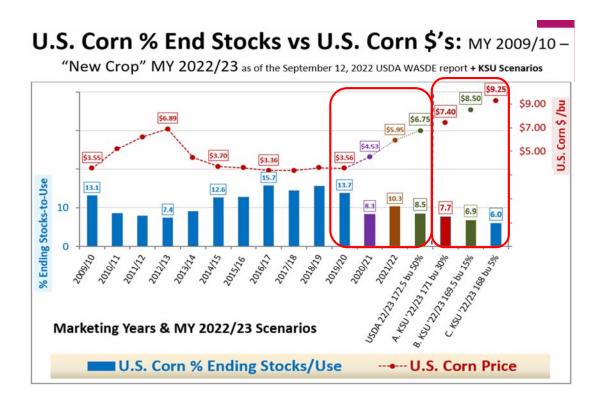


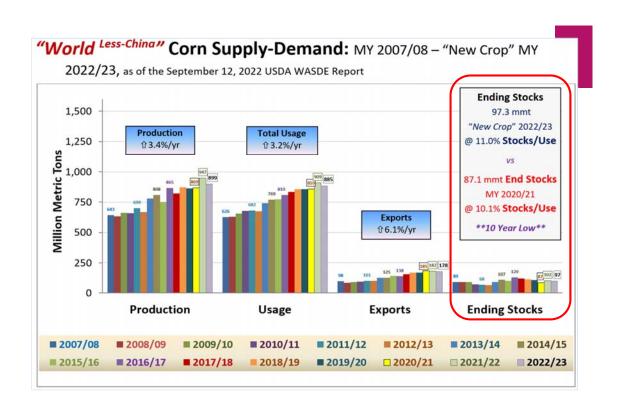


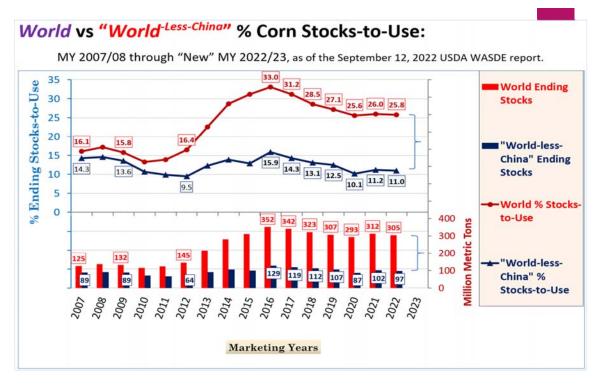
#### U.S. Corn Supply-Demand Balance Sheet: Projected "New Crop" MY 2022/23 as of the

September 12, 2022 USDA WASDE report, with Alternative KSU "New Crop" 2022/23 Marketing Year Scenarios

ltem	USDA 2022/23 9/12/2022 WASDE 172.5 bu/ac 13.994 bb crop	A. KSU "New Crop" MY 2022/23 Scenario 81 "Lower Yields" = 171.0 bu/ac 13.824 bb crop	B. KSU "New Crop" MY 2022/23 Scenario #2 "Much Lower Yields" = 169.5 bu/ac 13.703 bb crop	C. KSU "New Crop" MY 2022/23 Scenario #5 "Major Drought Yields" = 168.0 bu/ac 13.582 bb crop
% Probability of Occurring (KSU)	50% KSWest	30% <sup>KSUest</sup>	15%KSUest	5% <sup>KSUest</sup>
Planted Area (million acres)	88.608	88.608	88.608	88.608
Harvested Area (million acres)	80.844	80.844	80.844	80.844
% Harvested/Planted Area	91.24%	91.24%	91.24%	91.24%
Yield / harvested acre (bu/ac)	172.5	171.0	169.5	168.0
			Million Bushels	
Beginning Stocks (million bushels)	1,525	1,525	1,525	1,525
Production (million bu.)	13,944	13,824	13,703	13,582
Imports (million bu.)	25.0	25	25	25
Total Supply (million bu.)	15,494	15,374	15,253	15,135
Ethanol for fuel Use (million bu.)	5,325	5,325	5,375	5,375
Food & Industrial Use (mln bu.)	1,419.4	1,419.4	1,419.4	1,419.4
Seed Use (million bu.)	30.6	30.6	30.6	30.6
Exports (million bu.)	2,275	2,275	2,275	2,275
Feed & Residual Use (million bu.)	5,225	5,225	5,225	5,225
Total Use (million bu.)	14,275	14,275	14,275	14,275
Ending Stocks (million bu.)	1,219	1,099	978	860
% Ending Stocks-to-Use	8.54%	7.70%	6.85%	6.02%
Days of Supply (% S/U x 365 days)	31.2 days	28.1 days	25.0 days	22.0 days
U.S. Corn Average Farm Price (\$/bushel)	\$6.75 USDA Vs \$7.14 KSU februs	\$7.40 /bu vs \$7.14 KSU Fatures	\$8.50 /bu vs \$7.14 (SU Pature)	\$9.25 /bu vs \$7.14 KEV Patrons









Grain Sorghum Harvest FC\$: Fall 2022	\$5.93		\$5.88	\$5.93		
Sorghum Spot Cash Basis	\$0.40	\$0.25	\$0.10	\$0.40	\$0.26	(\$0.40)
Grain Sorghum Spot Cash\$	\$7.33	\$7.18	\$7.03	\$7.33	\$7.19	\$6.53
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Cash Market Spot & FC Bids	Colby	Salina	Topeka	Garden City	Hutchinson	Columbus Area
	Representing the hi	ighest bids availal	ble at each locatio	on		
9/13/2022 (Closing Mkts)	9/13/2022 (Closing Mkts) Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators					
DEC 2023 Corn (2023 Harvest Contract)	\$6.3300					
DEC 2022 Corn (2022 Harvest contract)	\$6.9275					
<b>Grain Futures Contracts</b>	Closing \$					
9/13/2022 (Closing Mkts)						
Date						

# Sorghum Cash Bids

near Hereford, Texas on Tuesday, Sept. 13, 2022

#### My DTN Cash Bids for Postal Code 79045, Radius 300 miles

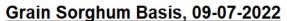
View Cash Bids Overview

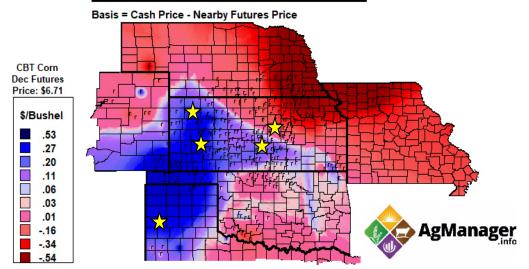
Recalculate

Currency/Units: USD/BU

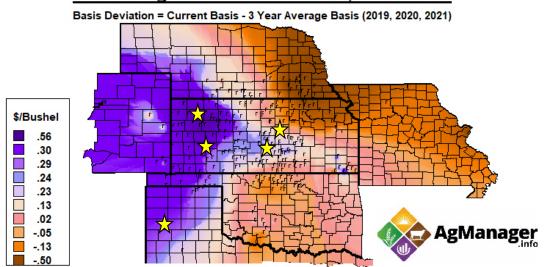
Elevator/Location	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Oct 2023
NORAG HEREFORD, TX	7.18	7.23			
SKYLAND GRAIN BUSHLAND, TX		7.33		7.33	
ATTEBURY GRAIN TULIA, TX	7.28	7.33			
SKYLAND GRAIN OLTON, TX		7.38		7.38	
ATTEBURY GRAIN LLC EDMONSON, TX	7.33	7.38			
SKYLAND GRAIN HARTLEY, TX		7.33		7.33	
SKYLAND GRAIN PANHANDLE, TX		7.33		7.33	::==:
SKYLAND GRAIN- CONWAY PANHANDLE, TX		7.33		7.33	
SKYLAND GRAIN-ABELL PANHANDLE, TX		7.33		7.33	
FARMERS CO OP ELEVATOR LITTLEFIELD, TX	6.98	:			1 444
SKYLAND GRAIN- ARROYO DALHART, TX		7.33		7.33	
SKYLAND GRAIN PANHANDLE, KS		7.33		7.33	



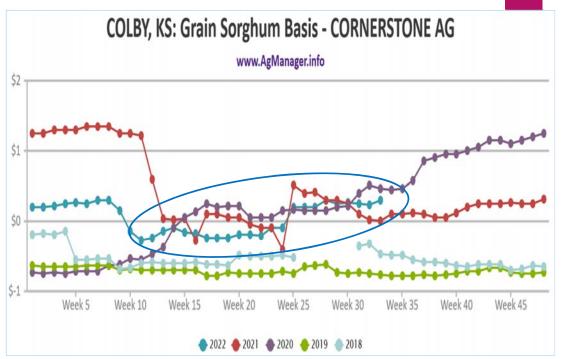


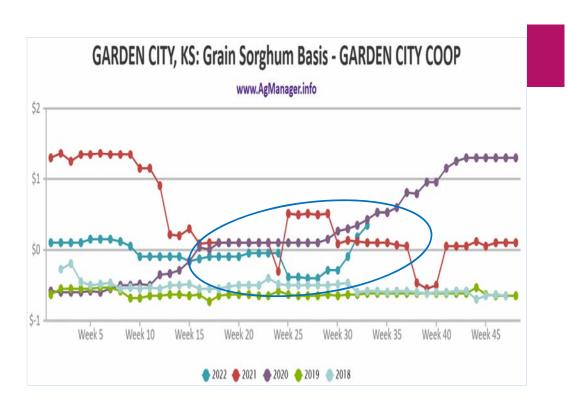


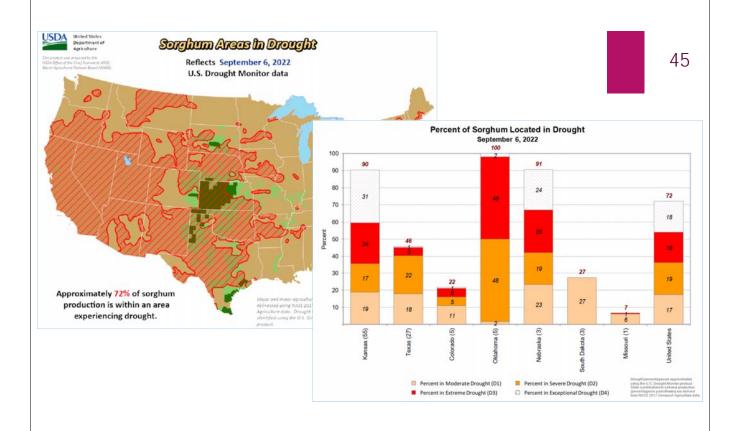
#### **Grain Sorghum Basis Deviation, 09-07-2022**

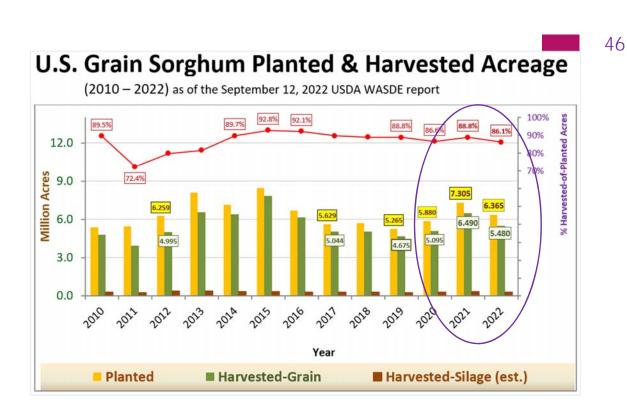


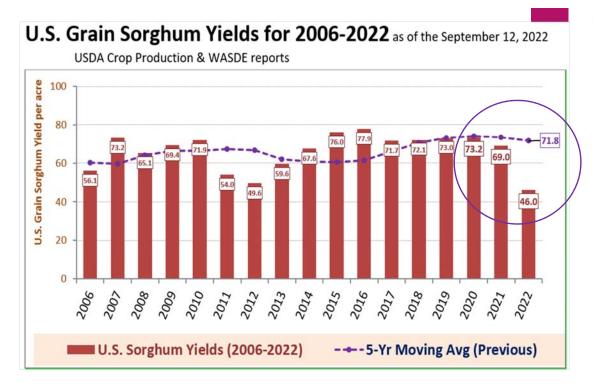


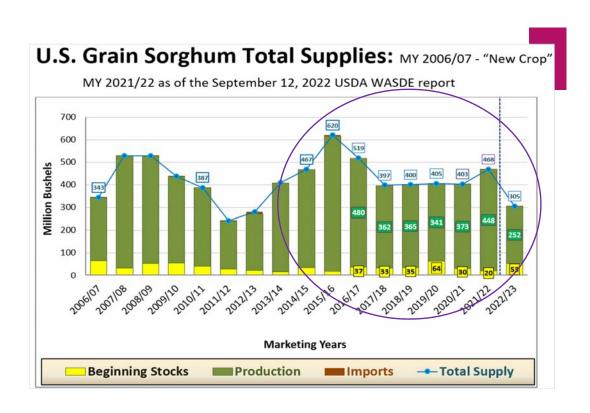


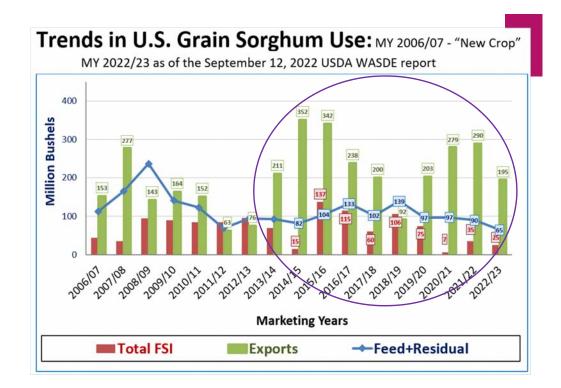












## 22/22

#### Projected U.S. Grain Sorghum Supply-Demand for MY 2022/23

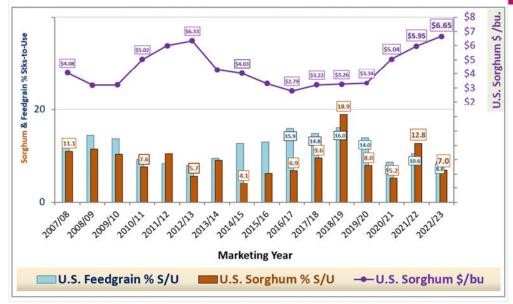
"New Crop" MY 2022/23 as of the September 12, 2022 USDA WASDE report, with Alternative KSU "New Crop" 2021/22 Marketing Year Scenarios

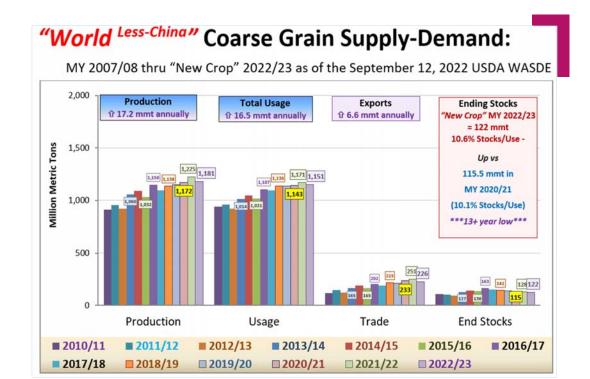
Item	A. USDA "New Crop" MY 2022/23 August 12, 2022 WASDE	B. KSU Adjusted USDA "New Crop" MY 2022/23 + 20 mb Exports to 215 mb				
% Probability of Occurring (KSU)	65%KSUest	35%KSUest				
Planted Area (million acres)	6.365	6.365				
Harvested Area (million acres)	5.480	5.480				
% Harvested/Planted Area	86.1%	86.1%				
Yield / harvested acre (bu/ac)	46.0	46.0				
	Million Bushels					
Beginning Stocks (million bushels)	53	53				
Production (million bu.)	252	252				
Imports (million bu.)	0.05	0.05				
Total Supply (million bu.)	305	305				
Food & Industrial Use (mln bu.)	24.14	24.14				
Seed Use (million bu.)	0.86	0.86				
Exports (million bu.)	195	215				
Feed & Residual Use (million bu.)	65	55				
Total Use (million bu.)	285	295				
Ending Stocks	20	10				
% Ending Stocks-to-Use	7.02%	3.39%				
Days of Supply (% S/U x 365 days)	25.6 days	12.4 days				
U.S. Grain Sorghum Avg. Farm Price (\$ / bushel)	\$6.65 USDA	\$7.50 KSU				



#### U.S. Sorghum % End Stocks/Use vs U.S. Avg. Cash \$s:

MY 2004/05 - "New Crop" MY 2021/22 as of the August 12, 2022 USDA WASDE







- □ <u>USDA Reports</u> ⇒ Bringing grain market volatility
  - Release dates: Oct. 12th, Nov. 9th, Dec. 9th & January 2023
    - Risk of further 2022 crop production declines for U.S. corn, soybean & HRS wheat from the northern states – yields or abandoned acres
    - o Would be supportive-to-bullish to grains depending on <u>degree</u> of crop declines
- □ <u>"Active"</u> Domestic & Foreign grain purchases @ harvest
  - User's looking to secure available "new crop" supplies
  - "Inverted" futures & strong basis possible during Sep-Nov<sup>2022</sup> Quarter

# What to anticipate: Fall 2022 - Year 2023

- □ Fall Seeding<sup>2022</sup> of Hard Red Winter Wheat in Kansas
  - Support from strong "new crop" HRW Wheat futures
     & Prospects for high 2023 crop Revenue Insurance Planning prices
     oJULY<sup>2023</sup> KC HRW Wheat futures @ \$9.23 /bu <sup>9/13/2022</sup>
  - Strong price competition for acres from other Kansas crops in 2023 (Feedgrains & oilseeds)
  - Soil moisture prospects in Fall 2022 will likely be the key factor
     La Nina weather pattern continuation could cause dry conditions in fall-winter 2022

- 2023 Spring Planting of Feedgrains & Oilseeds
  - With <u>tight stocks</u> across crops any threats to successfully planting
     2023 U.S. <u>corn</u> or <u>soybeans</u> could cause *STRONG* market price volatility
    - o NOV<sup>2023</sup> Soybean futures @ \$13.92 ¾ /bu <sup>9/13/2022</sup>
    - o DEC<sup>2023</sup> Corn futures @ \$6.33 /bu <sup>9/13/2022</sup>
      - Fall 2023 "New Crop" Soy/Corn \$ Ratio = \$13.92 ¾ ÷ \$6.33 = 2.20 (Corn advantage)
  - Strong "new crop" price competition likely for 2023 planted acres between Feedgrains & Oilseeds ⇒ beginning soon after the 2022 fall harvest

- Q? Are Corn, Soybeans & Wheat futures at risk to fall sharply in the last ½ of year 2023?
  - With "<u>tight" beginning stocks</u> across these crops less risk of declines until at least <u>late spring – early summer</u>
  - <u>THEN</u> the *risk* to grain sellers is that crop markets will discount the risk of "short crops" in 2023
    - ⇒ <u>IF</u> in Summer <sup>2023</sup> <u>U.S. & Foreign crop prospects</u> become "OK-to-Good", <u>THEN</u> grain prices will likely "slide" into Fall 2023 (by traders with <u>no motive</u> to "buy the market")

