

'Winning-The-Game' Grain Marketing Workshop

Atwood, Kansas

Wednesday, February 8, 2023

DANIEL O'BRIEN EXTENSION AGRICULTURAL ECONOMIST

KANSAS STATE

Department of Agricultural Economics

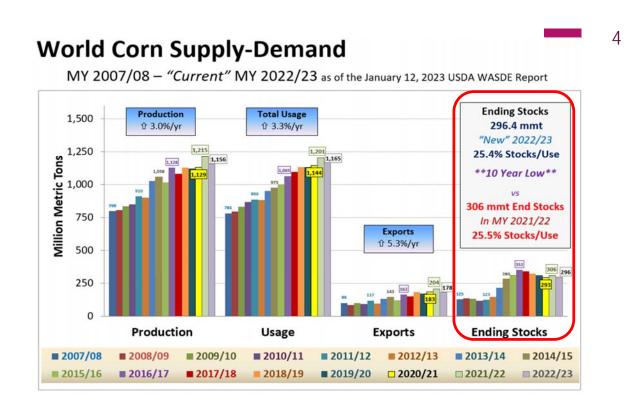


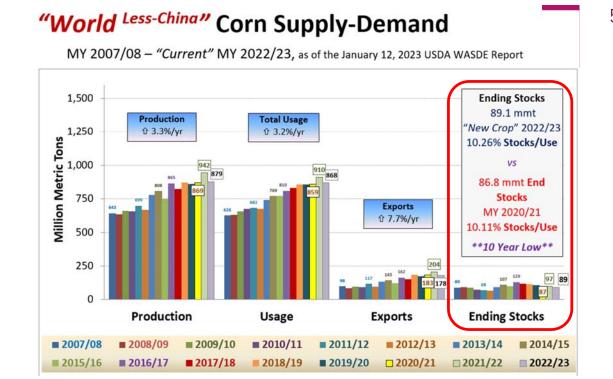
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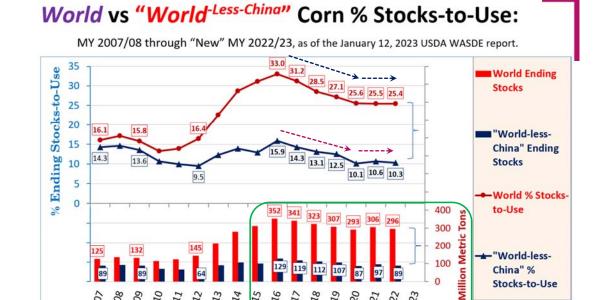
Corn Market Perspective



Corn Market Outlook 2023 3 in Kansas, the U.S. & Globally 1) "Tight!" 2023 Global Corn, Oilseed & Wheat Stocks • The importance of South America's 2023 corn & soybean crops!! • Occurring &/or Anticipated in 2023: • Drought in Argentina • Smaller Crops & Exports from Ukraine







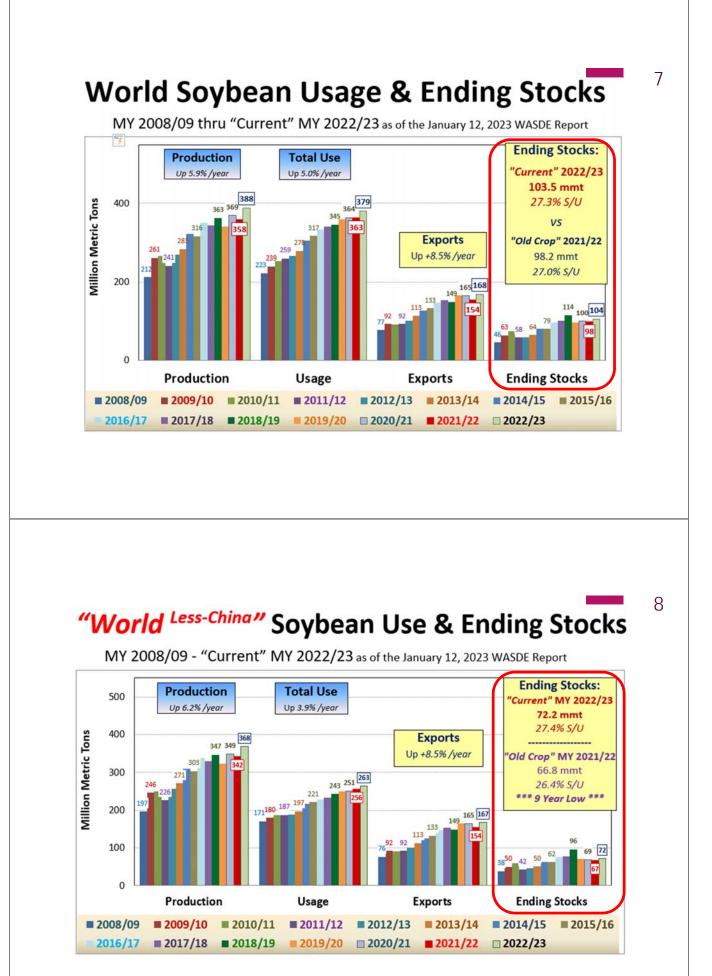
Marketing Years

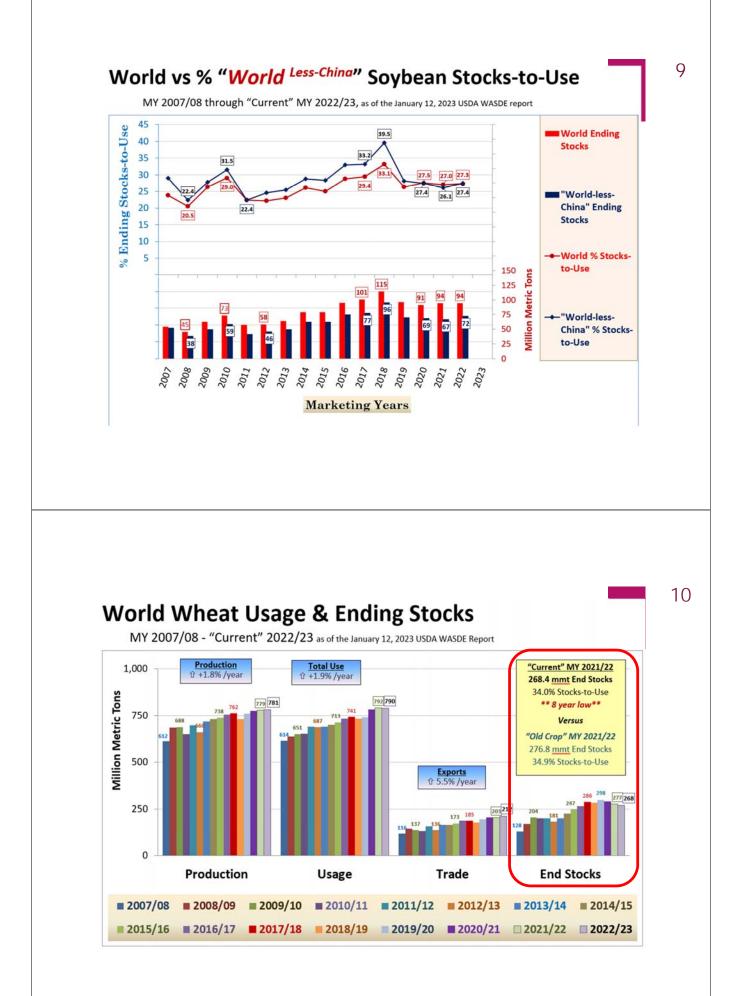
²⁰²¹ ²⁰²² ²⁰²³

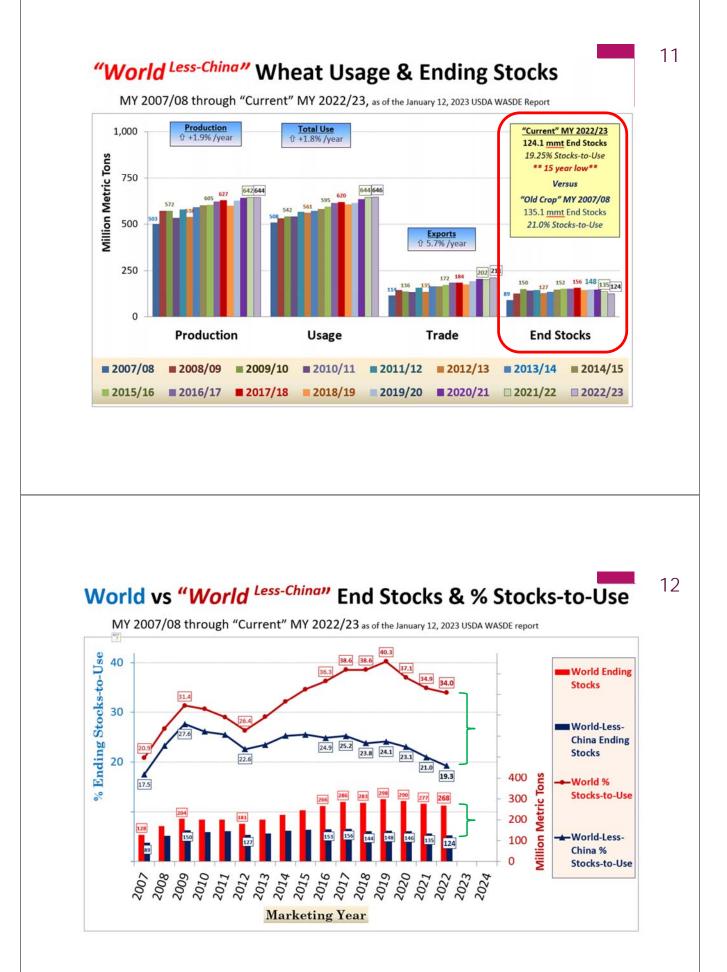
STO

2009 2010 2011 2012 2012

Stocks-to-Use







Grain Market Outlook ²⁰²³

2) Carryover impact of the Crop Production damage in the Western-Central Plains during 2022-2023

• Western Kansas / OK / TX / NE

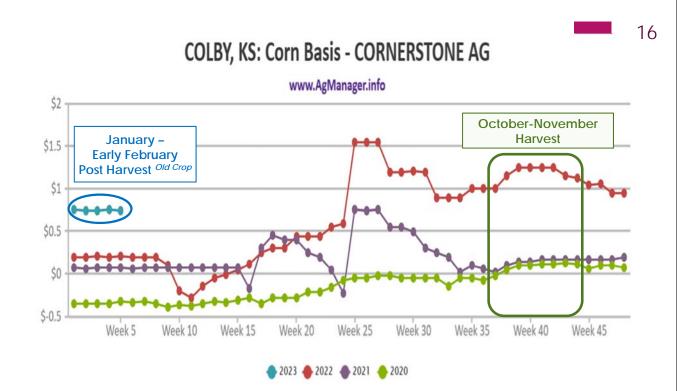
→ <u>Stronger</u> Corn & Soybean BASIS throughout the U.S. Corn Belt

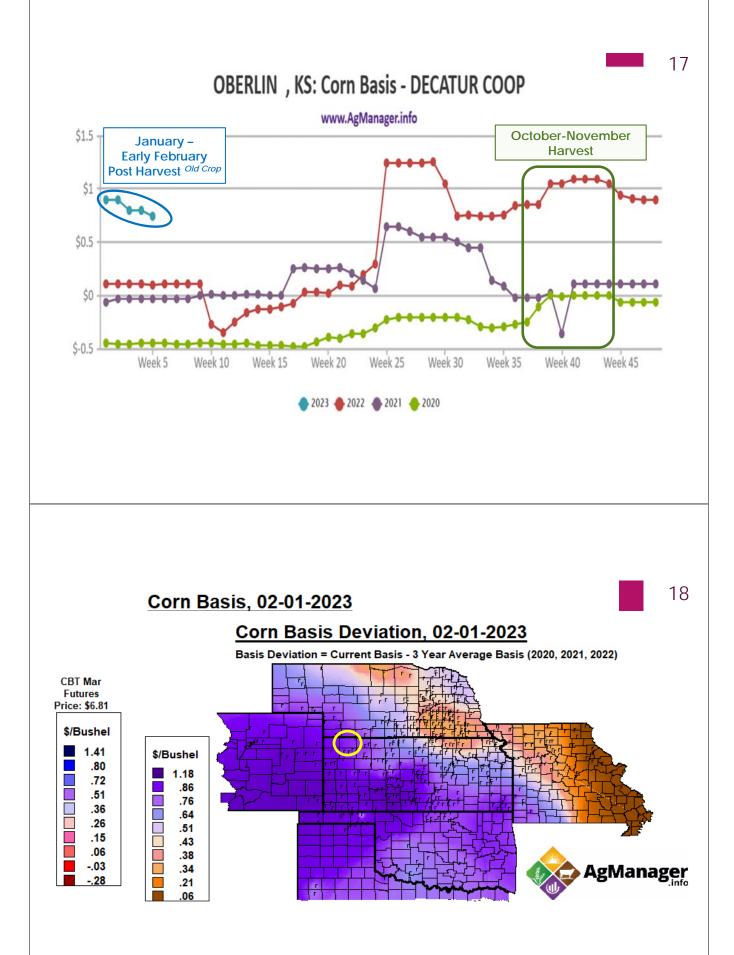
▶ Q? 2023 U.S. Corn, Soybean & Wheat Production?

 \rightarrow Seasonal risk in Spring-Summer ²⁰²³ – Dry subsoils in many areas

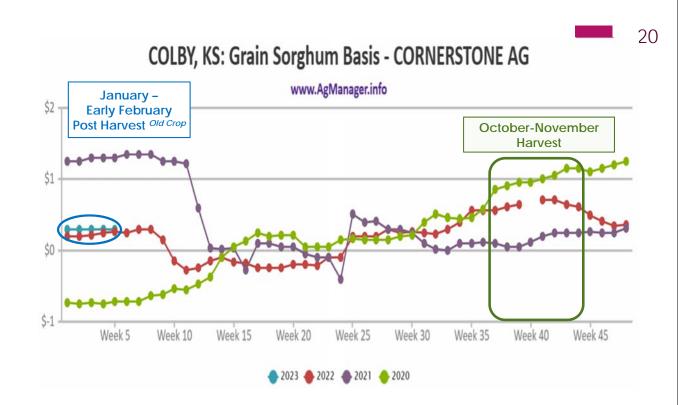


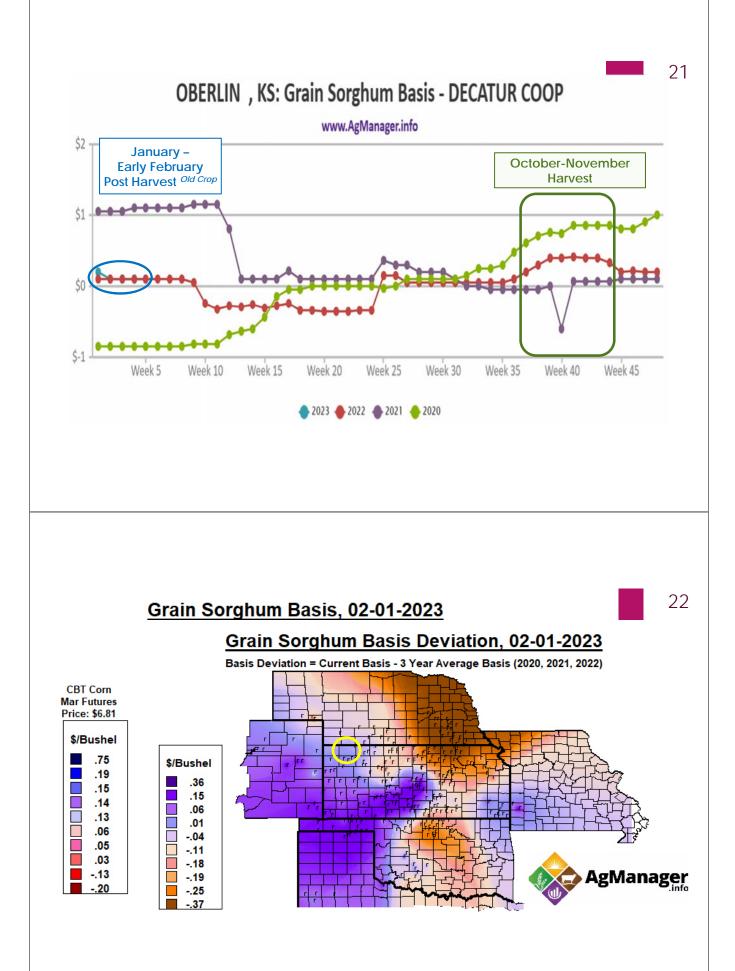
Kansas Cash & Futures Pri	ces					
Date						
2/7/2023 (closes)						
Grain Futures Contracts	Closing \$					
MAR 2023 Corn (2023 Lead contract)	\$6.7400					
DEC 2023 Corn ^(2023 Harvest Contract)	\$5.9350					
2/7/2023 (closes)	Cash Grain &	Harvest Cont	ract Prices @	Kansas Grain I	Elevators	
	Representing the	highest bids avail	able at each loca	tion		
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\$	\$7.49	\$7.39	\$7.14	\$8.04	\$7.84	\$7.6
Corn Spot Cash Basis	\$0.75	\$0.65	\$0.40	\$1.30	\$1.10	\$0.95
Corn Harvest FC\$: Fall 2023	\$5.68	\$5.73	\$5.53	\$6.48	\$5.93	\$5.6
Corn Harvest FC\$ Basis	(\$0.26)	(\$0.20)	(\$0.40)	\$0.55	(\$0.00)	(\$0.31)



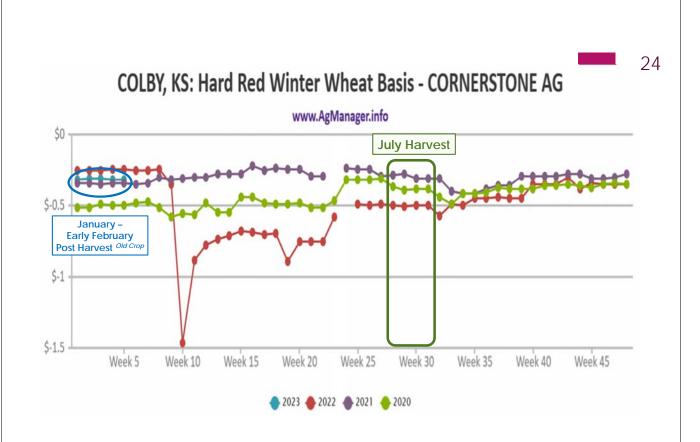


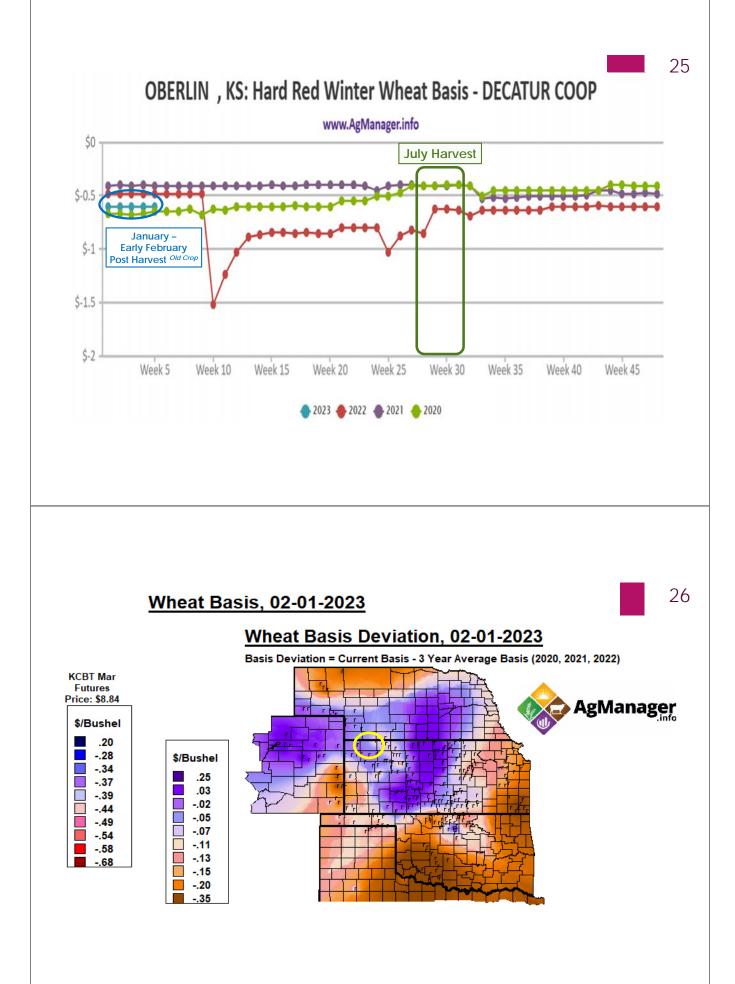
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	Representing the	highest bids avail	able at each loca			
Cash Market Spot & FC Bids	Colby Area	Salina Area	Topeka ^{Area}	Garden City ^{Area}	Hutchinson Area	Columbus Area
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Grain Sorghum Spot Cash\$	\$7.04	\$7.09	\$7.14	\$7.14	\$7.28	\$6.9
Sorghum Spot Cash Basis	\$0.30	\$0.35	\$0.40	\$0.40	\$0.54	\$0.18
Grain Sorghum Harvest FC\$: Fall 2022	\$5.53	\$5.63	\$5.63	\$5.83	\$5.63	\$5.4
	(\$0.40)	(\$0.31)	(\$0.31)	(\$0.11)	(\$0.31)	(\$0.45





Kansas Cash & Futures Price	es					
Date						
2/7/2023 (closes)						
Grain Futures Contracts	Closing \$					
MAR 2023 KC HRW Wheat (2023 Lead Contract)	\$8.8575					
SEPT 2023 KC HRW Wheat ^(2023 Harvest Contract)	\$8.6175					
2/7/2023 (closes)	Cash Grain &	Harvest Cont	ract Prices @	Kansas Grain I	Elevators	
	Representing the	highest bids availe	able at each loca	tion		
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
KC HRW Wheat Harvest Spot Cash\$	\$8.54	\$8.80	\$8.60	\$8.61	\$8.71	\$8.3
HRW Wheat Harvest Spot Cash Basis	(\$0.32)	(\$0.06)	(\$0.26)	(\$0.25)	(\$0.15)	(\$0.55)
KC HRW Wheat FC\$ - Harvest 2023	\$8.08	\$8.21	\$8.28	\$8.28	\$8.26	\$8.05
HRW Wheat Harvest FC\$ Basis	(\$0.54)	(\$0.41)	(\$0.34)	(\$0.34)	(\$0.36)	(\$0.57)





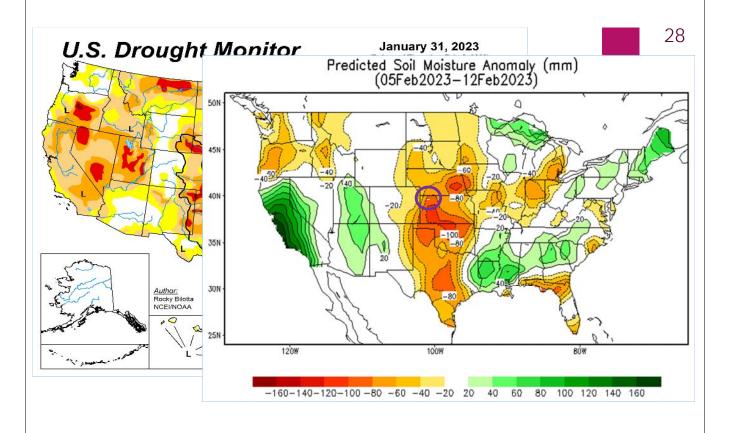
Grain Market Outlook ²⁰²³......

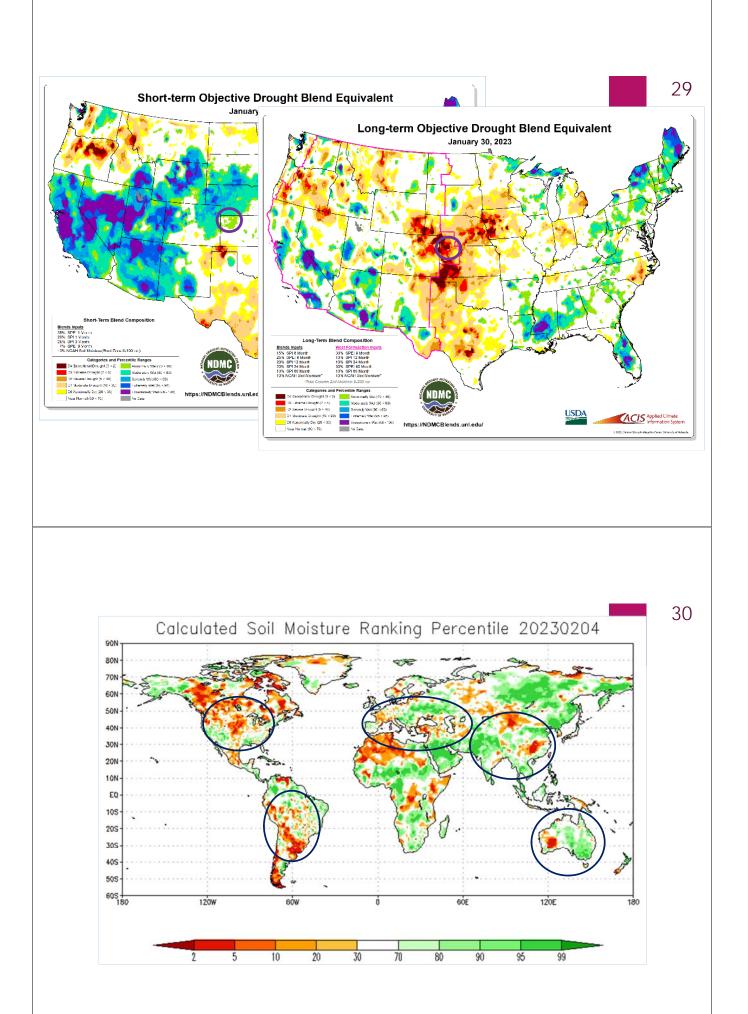
3) Continuance of dry La Nina Weather Pattern in 2023???

 "La Nina is expected to continue into winter, with equal chances of La Nina & ENSO-neutral during January-March 2023. In February-April 2023, there is a 71% Chance of ENSO-neutral."

U.S. Climate Prediction Center / NCEP January 3, 2023

 "La Nina is breaking down, and an El Nino is forecast to emerge in 2023. Returning after several years, an El Nino can completely change the weather patterns for the weather seasons of 2023 & 2024." Severe Weather Europe, Andrej Flis ^{January 11, 2023}





Grain Market Outlook ²⁰²³......

4) Moderating prices for Fertilizer & other Crop Inputs – (but still historically high!)

- Lower natural gas prices, w. but continued supply-chain challenges
- Lower fertilizer / crop input costs will <u>encourage</u> 2023 U.S. Corn Acres – ≈ 92 million acres in 2023
 - o 88.6 million acres in 2022
 - o 93.3 million acres in 2021
 - o 90.7 million acres in 2020





Illinois Production Cost Report

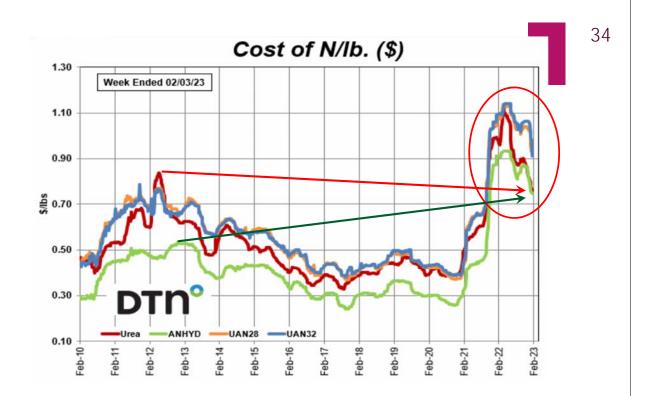
AMS Livestock, Poultry and Grain Market News IL Dept. of Ag Market News

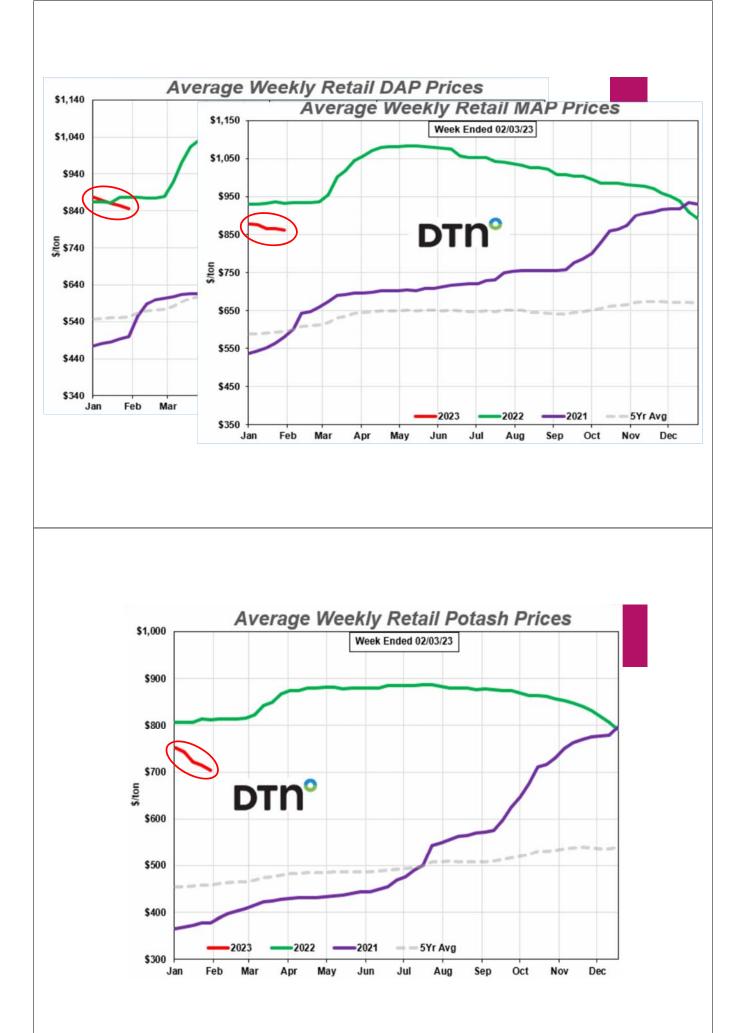
January 26, 2023

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Fertilizer¹ Distributor (Dollars Per Ton)

Product	Sale Type	Price Range	Average	Change
Anhydrous Ammonia	Ask - FOB	1190.00-1490.00	1301.11	DN 7.22
Urea 46-0-0	Ask - FOB	670.00-700.00	686.67	DN 23.33
Liquid Nitrogen 28-0-0	Ask - DELV(Applied)	550.00-710.00	605.17	DN 9.33
DAP (Diammonium Phosphate 18%N 46%P)	Ask - FOB	800.00-850.00	822.50	DN 9.17
MAP (Monoammonium Phosphate 11%N 52%P)	Ask - FOB	790.00-925.00	870.00	UP 18.00
Potash (Potassium)	Ask - FOB	625.00-850.00	696.67	DN 17.46
Fuel				
Distributor(Dollars Per Gallon)				
Farm Diesel < 1000 gallons	Ask- FOB	3.76-4.34	4.03	UP 0.49





Grain Market Outlook ²⁰²³

5) U.S. & Foreign Ag response in 2023 to current crop prices?

- Crop Acres? Usually, î Prices → î Crop Acres, BUT <u>ALL</u> crop \$'s are high (especially soybeans)
- <u>Crop Costs</u>? <u>*IF*</u> lower fertilizer & other crop costs, *THEN* it <u>supports</u>
 Corn acres & <u>decreases</u> Soybean acres in the U.S. Corn Belt ²⁰²³
- **<u>Rationing Grain Use</u>**: Evidence of reduced corn & soybean use....
- Cropland Markets & Cash Rents: High crop prices being reflected

What to anticipate in Year 2023 (1st of 3)

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

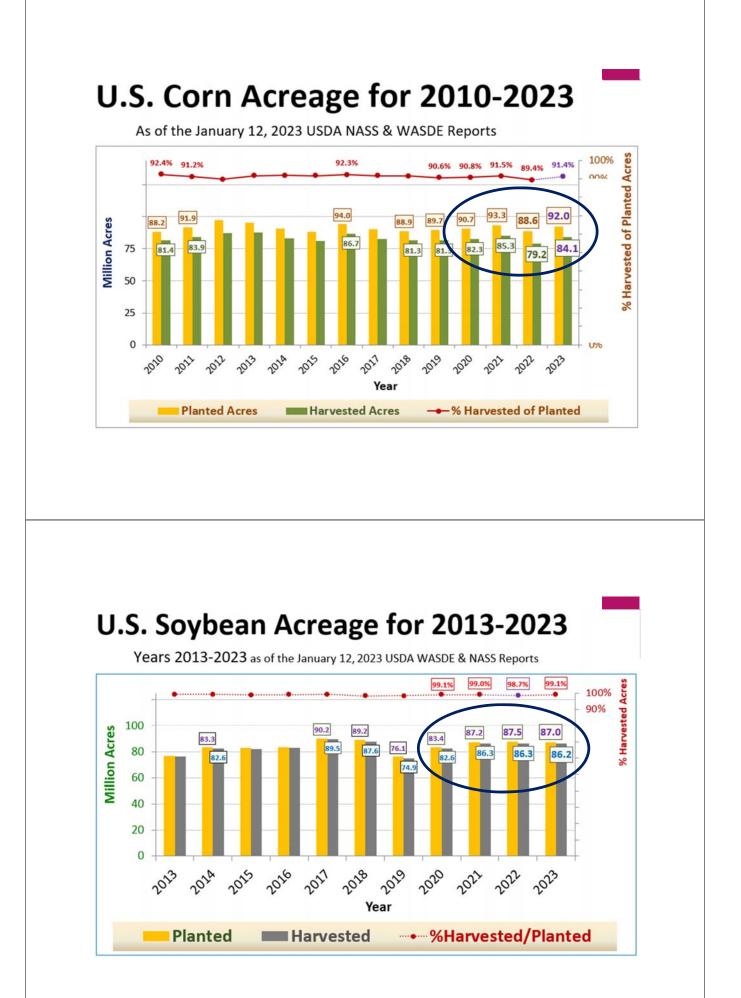
o NOV²⁰²³ Soybean futures @ \$13.70 ½ /bu ^{2/7/2023 close}

- o DEC²⁰²³ Corn futures @ \$5.93 ½ /bu ^{2/7/2023 close}
- ➤ 2023 "New Crop" Soy/Corn \$ Ratio = \$13.70 ½ ÷ \$5.93 ½ = 2.31 (vs 2.52 Avg)

++ Corn

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 Strong "new crop" price competition likely for 2023 planted acres between Feedgrains & Oilseeds ⇒ Likely in March-May 2023



Grain Market Outlook ²⁰²³......

6) Impact of Ongoing & Possible Geopolitical Conflicts?? In 2023

- Ukraine-Russia War???: Prospects for de-escalation & grain trade?
- China-Taiwan??? *IF* this occurs, it would impact the global economy along with U.S. grain trade
 - Impacting U.S. soybeans, grain sorghum, likely all U.S. agricultural commodities including U.S. corn

Grain Market Outlook ²⁰²³......

- 7) Overall Prospects for 2023 Crop Markets???
 - <u>U.S. Crop Prices supported @ Moderate-to-High Levels</u> <u>until</u> someday grain markets are confident of larger crops & rebuilding of stocks
 - "2023/24 'New Crop' Forward Bids" are vulnerable to moderate declines in late Spring – Summer²⁰²³ & on into Fall harvest²⁰²³
 - Ukraine-Russia War Effect: *Smaller* Ukraine corn, wheat crops+*exports*
 - <u>South America Impact</u>: Brazil ^(Positive++) & Argentina^(Negative-) crop prospects will effect U.S. prices through at least August²⁰²³



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 <u>UNTIL</u> at least <u>late spring – early summer</u>
- <u>THEN</u> the *risk* to grain sellers is that crop markets will discount the possibility of *"short crops"* in 2023

⇒ IF in Summer ²⁰²³ U.S. & Foreign crop prospects are "OK-to-Good", <u>THEN</u> grain markets likely "slide" lower into Fall 2023

What to anticipate: Year 2023 (3rd of 3)

- □ <u>USDA Reports</u> ⇒ Often a "driver" of grain market volatility
 - <u>WASDE</u>: Jan. 12**, 2/8, 3/8, 4/8, 5/12, 6/9, 7/12, 8/11, 9/12.....
 - <u>Planted Area</u>: Prospective Plantings May 31, Acreage June 30

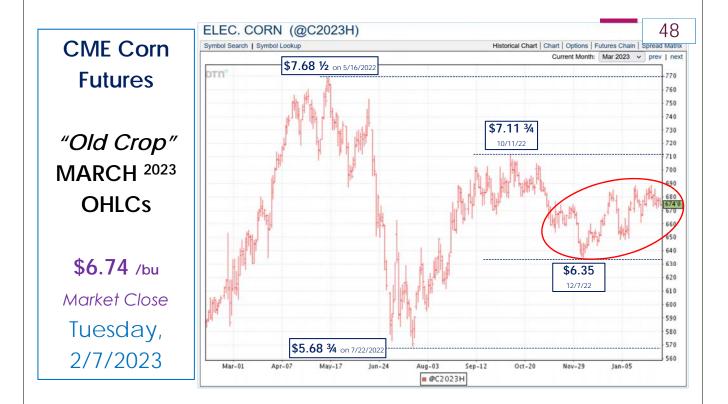
<u>"Strong" Demand-Pull for Feedgrains in the Western Corn Belt</u>

- 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 in 2023 ⇒ What are the odds?

Corn Market Prices



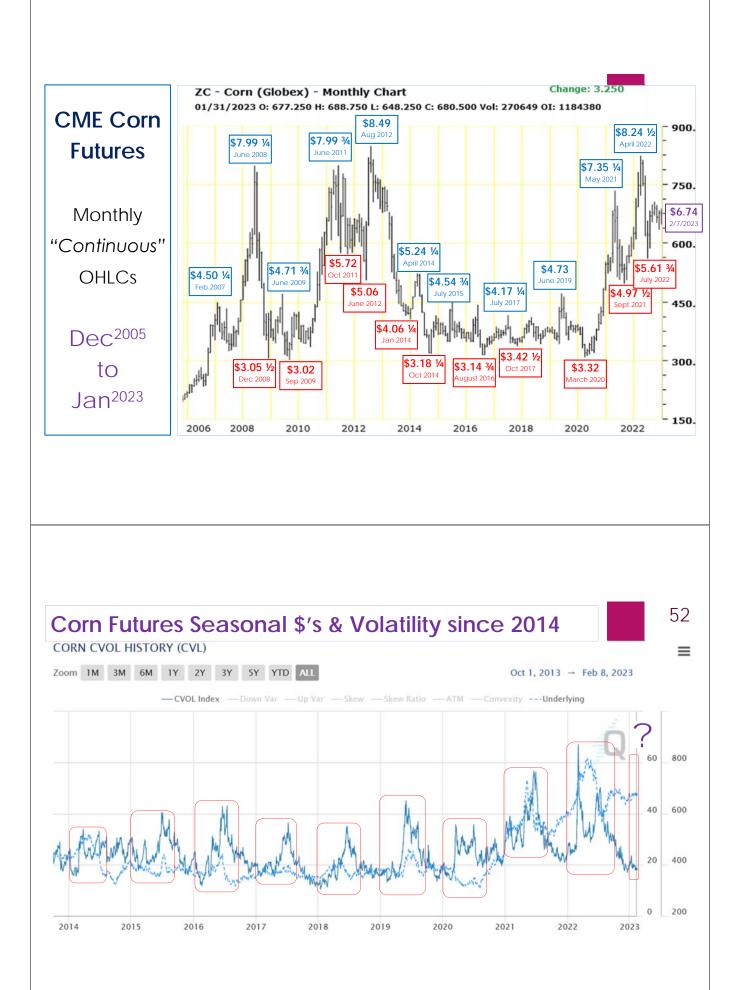
CME Corn Futures 2/7/2023 Closes								
Month	Close	Change	Carry /mo					
Mar ^{Lead} 23	\$6.74	₽ \$0.05						
May 23	\$6.73	₽ \$0.04 ¾	-\$0.0050					
July 23	\$6.62 1/2	₽ \$0.05 1/2	-\$0.05 ²⁵					
Sept 23	\$6.08	₽ \$0.05	-\$0.27 ²⁵					
Dec ^{Hvst} 23	\$5.93 ½	₽ \$0.04 ¼	-\$0.04 ⁸³³					
Mar 24	\$6.00 1/2	₽ \$0.04	+\$0.02 ³³³					
May 24	\$6.03 3/4	₽ \$0.03 ³ ⁄ ₄	+\$0.01 ⁶²⁵					
July 24	\$6.02 3/4	\$ \$0.04	-\$0.0050					





CME Corn Futures Continuous Weekly to 2/7/2023





U.S. Corn Supply	y and Demand
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	2021/2022	2022/2023	Change from	Change from
Item	estimate	forecast	December 9	2021/2022
Planted area (million acres)	93.3	88.6	**	-4.7
Harvested area (million acres)	85.3	79.2	-1.6	-6.1
Yield (bushels per acre)	176.7	173.3	1.0	-3.3
		Million	n bushels	-
Beginning stocks	1,235	1,377	**	142
Production	15,074	13,730	-200	-1,344
Imports	24	50		26
Total supply	16,333	15,157	-200	-1,176
Feed and residual	5,718	5,275	-25	-443
Food, seed, and industrial	6,766	6,715	-10	-51
Ethanol	5,326	5,275		-51
Domestic use	12,484	11,990	-35	-494
Exports	2,471	1,925	-150	-546
Total use	14,956	13,915	-185	-1,041
Ending stocks	1,377	1,242	-15	-135
		Pe	rcent	- 7
Stocks to use ratio	9.2	8.9	**	-0.3
		Dollars	per bushel	
Average market price	6.00	6.70		0.70

-- No change. ** Rounds to zero.

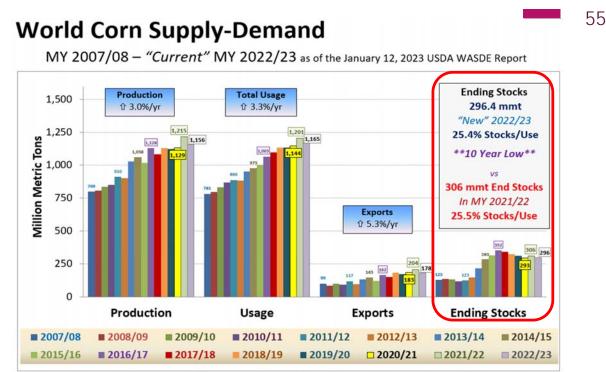
January 12, 2023

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World Corn Production

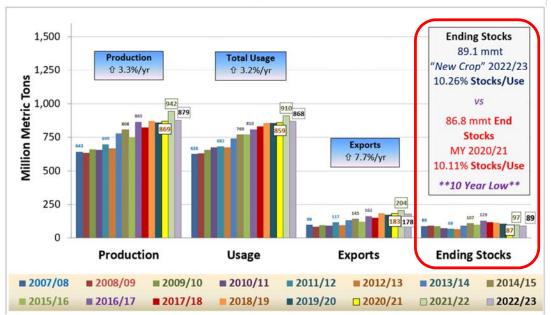
	202	21/2022	2022/2023				
Country or Region	Estimate	Change from December 9	Forecast	Change from December 9	Change from 2021/2022		
			- Million Tons -				
World	1,214.9	-2.0	1,155.9	-5.9	-58.9		
United States	382.9	-	348.8	-5.1	-34.1		
Foreign	832.0	-2.0	807.2	-0.8	-24.8		
Argentina	49.5	-2.0	52.0	-3.0	2.5		
Brazil	116.0		125.0	-1.0	9.0		
Mexico	26.8		27.6		0.8		
Canada	14.0		14.5		0.6		
European Union	71.0		54.2		-16.8		
Serbia	6.0		5.4		-0.6		
FSU-12	63.7	1.00	46.3		-17.4		
Ukraine	42.1		27.0		-15.1		
Russia	15.2		14.0		-1.2		
South Africa	16.1	-	16.7		0.6		
China	272.6		277.2	3.2	4.6		
India	33.6		32.0		-1.6		

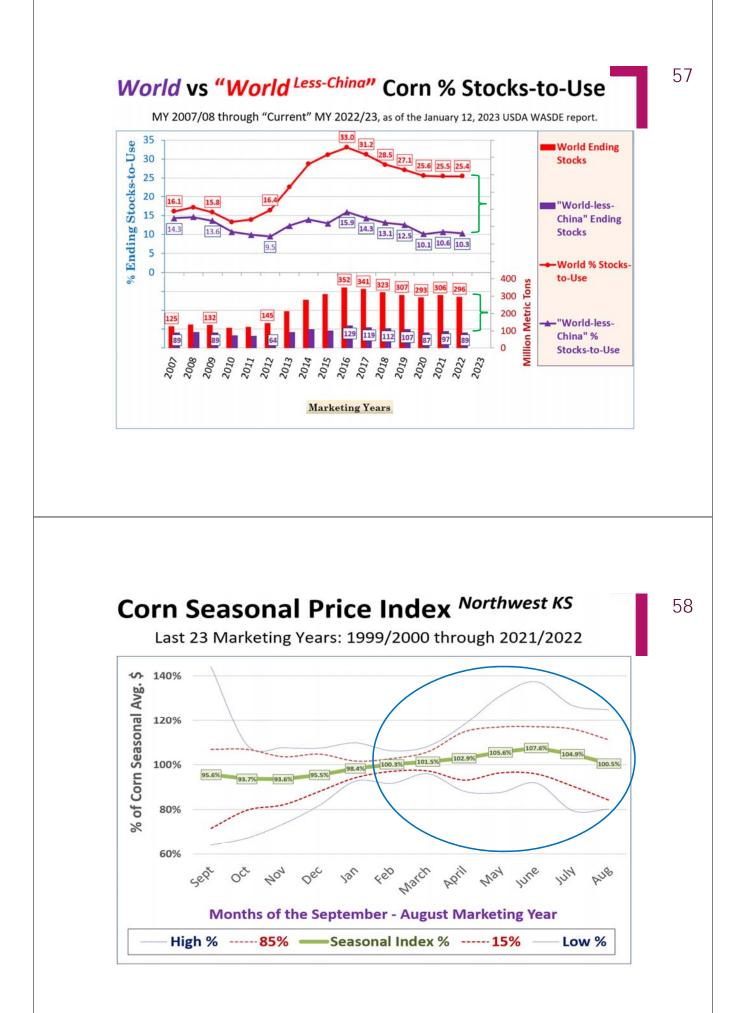
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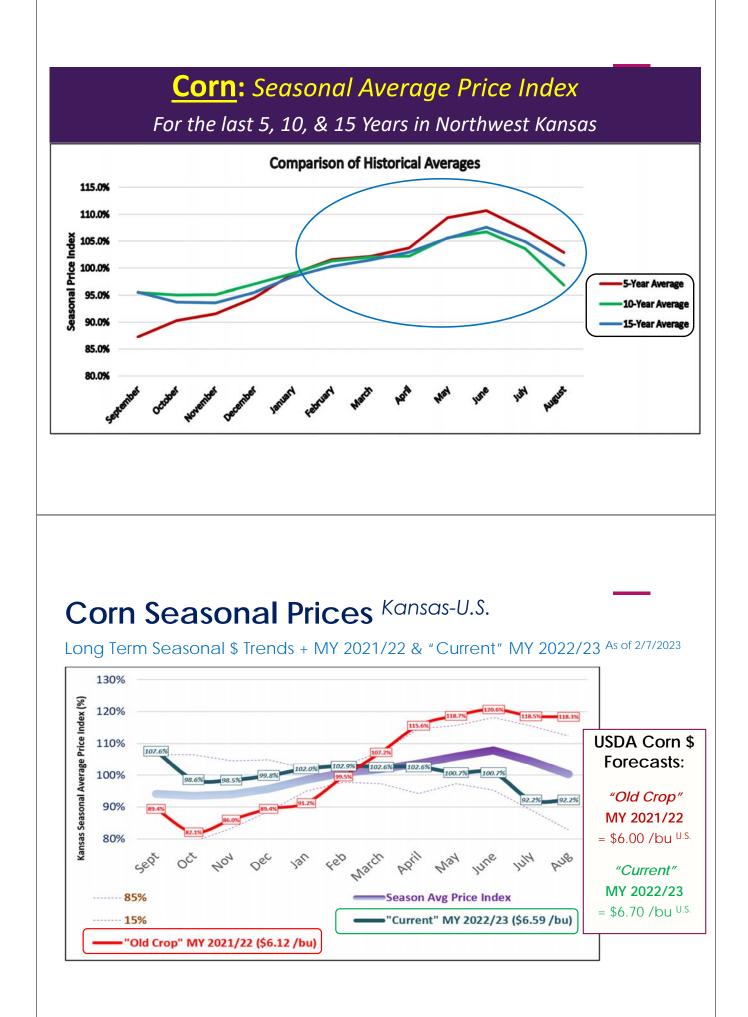




MY 2007/08 - "Current" MY 2022/23, as of the January 12, 2023 USDA WASDE Report







My DTN Cash Bids				My DTN Cas	h Bids for Pe	ostal Code 6	4473, Radius	300 miles	61
Elevator/Location	Feb 2023	Mar 2023	Apr 2023	May 2023	Jun 2023	Jul 2023	Oct 2023	Nov 2023	
DECATUR COOP ASSOCIATION HERNDON, KS	7.44							5.70	
HI PLAINS COOP GEM, KS	7.49								Floueter
FRONTIER AG INC- REXFORD REXFORD, KS							5.68		Elevator FC Basis:
HI PLAINS COOP REXFORD, KS	7.46								\$0.15 to \$0.25
FRONTIER AG INC COLBY, KS							5.68		<u>under</u>
DECATUR COOP ASSOCIATION OBERLIN, KS	7.51					E	·	5.73	DEC ²³
CHS OBERLIN, KS	7.56	7.56						5.78	
CORNERSTONE AG COLBY, KS	7.51								
HI PLAINS COOP LEVANT, KS	7.49	We	dnesda	y, Febru	ary 8, 2	023			
HI PLAINS COOP COLBY, KS	7.49		As c	of 10:30 o	a.m.	-			
FRONTIER AG INC BIRD CITY, KS							5.68		

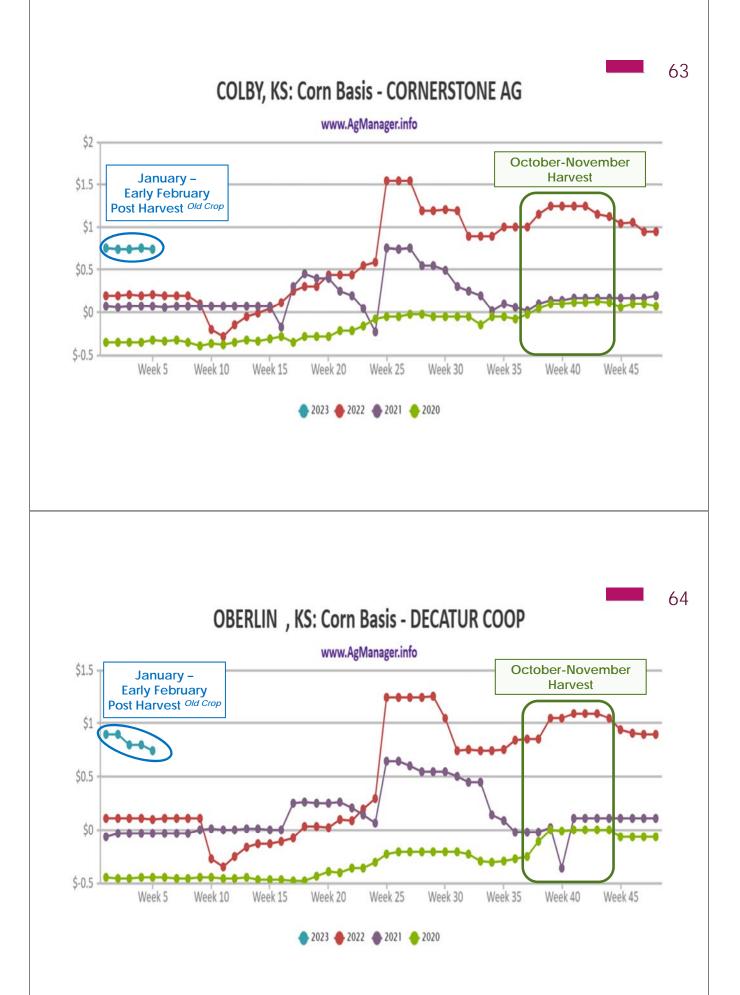


National Daily Ethanol Report

Agricultural Marketing Service Livestock, Poultry, and Grain Market News

February 7, 2023

			US #	#2 Yellow Corn -Bulk		
Ethanol Plant						
State/Province/Region	Sale Type	Basis (¢/bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Illinois	Bid	-13.00H to 40.00H	UNCH-DN 2	6.6600-7.1900	UP 0.0150-DN 0.0050	6.9014
Indiana	Bid	-15.00H to 18.00H	UNCH-DN 7	6.6400-6.9700	UP 0.0150-DN 0.0550	6.8633
Iowa East	Bid	-15.00H to 10.00H	DN 5-UNCH	6.6400-6.8900	DN 0.0350-UP 0.0150	6.7718
Iowa West	Bid	5.00H to 48.00H	UNCH-UP 1	6.8400-7.2700	UP 0.0150-UP 0.0250	7.1067
Kansas	Bid	45.00H to 90.00H	UNCH	7.2400-7.6900	UP 0.0150	7.4900
Michigan	Bid	-30.00H to -17.00H	UNCH	6.4900-6.6200	UP 0.0150	6.5475
Minnesota	Bid	-25.00H to 31.00H	UNCH	6.5400-7.1000	UP 0.0150	6.8717
Missouri	Bid	5.00H to 50.00H	UNCH	6.8400-7.2900	UP 0.0150	7.0000
Nebraska	Bid	20.00H to 90.00H	UNCH	6.9900-7.6900	UP 0.0150	7.1950
Ohio	Bid	-10.00H to 12.00H	UNCH	6.6900-6.9100	UP 0.0150	6.8133
South Dakota	Bid	-10.00H to 50.00H	UP 8-UNCH	6.6900-7.2900	UP 0.0950-UP 0.0150	6.9492
Wisconsin	Bid	-45.00H to -21.00H	UNCH	6.3400-6.5800	UP 0.0150	6.4600



U.S. Corn Supply-Demand Balance Sheet

"Current" MY 2022/23 & Proj. "New Crop" MY 2023/24 as of the 1/13/2023 USDA WASDE + KSU Ests.

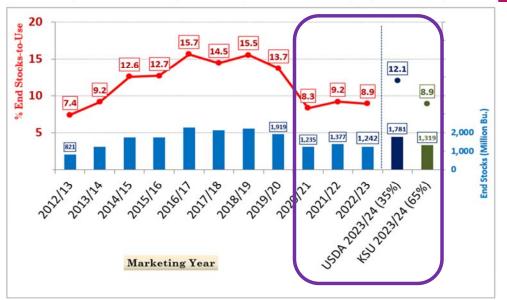
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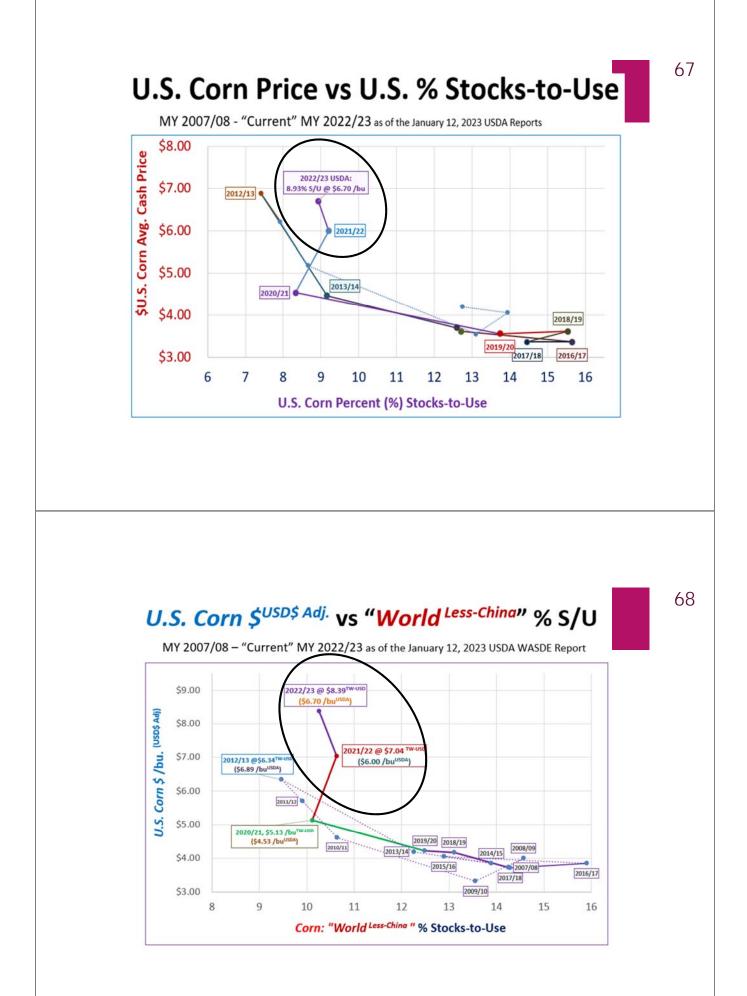
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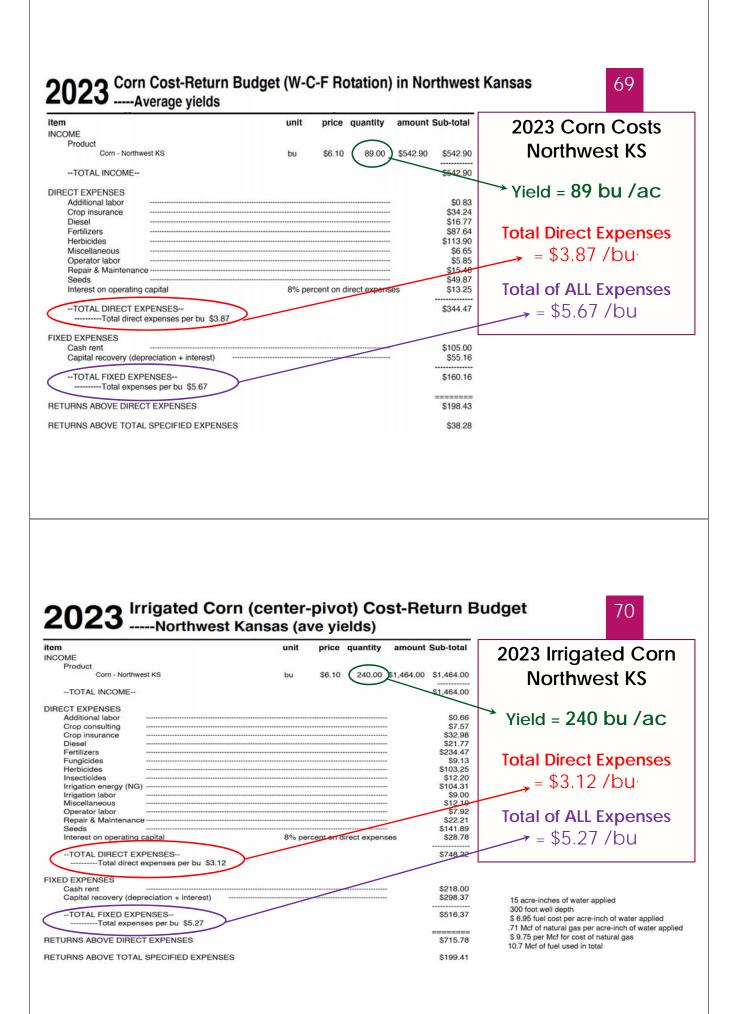
item	USDA 2022/23 1/12/2023 WASDE 172.3 <u>bu</u> /ac 13.730 bb crop 75% ^{KSU} est	A. USDA "New Crop" MY 2023/24 Scenario #1 "High Yields" = 181.5 gu/ac 15.265 bb crop 35% ^{XSUest}	B. USDA "New Crop" MY 2023/24 ^{Semarko #1} "Average Vields" = 176.0 <u>Bul</u> /ac 14.802 bb crop 65% ^{KSUest}
% Probability of Occurring (KSU) Planted Area (million acres)	88.579	92.000	92.000
Harvested Area (million acres)	79.207	84.100	84.100
% Harvested/Planted Area	89.42%	91.41%	91.41%
Yield / harvested acre (bu/ac)	172.3	181.5	176.0
		Million Bushels	27 010
Beginning Stocks (million bushels)	1,377	1,242	1,242
Production (million bu.)	13,730	15,265	14,802
Imports (million bu.)	50.0	25.0	25.0
Total Supply (million bu.)	15,157	16,531	16,094
Ethanol for fuel Use (million bu.)	5,275	5,325	5,325
Food & Industrial Use (min bu.)	1,419.4	1,419.4	1,419.4
Seed Use (million bu.)	30.6	30.6	30.6
Exports (million bu.)	1,925	2,275	2,275
Feed & Residual Use (million bu.)	5,275	5,700	5,700
Total Use (million bu.)	13,915	14,750	14,750
Ending Stocks (million bu.)	1,242	1,781	1,344
% Ending Stocks-to-Use	8.93%	12.07%	8.94%
Days of Supply (% S/U x 365 days)	32.6 days	44.1 days	32.6 days
U.S. Corn Average Farm Price (\$/bushel)	\$6.70 USDA \$6.46 KSU	\$5.70 USDA	\$6.45 KSU



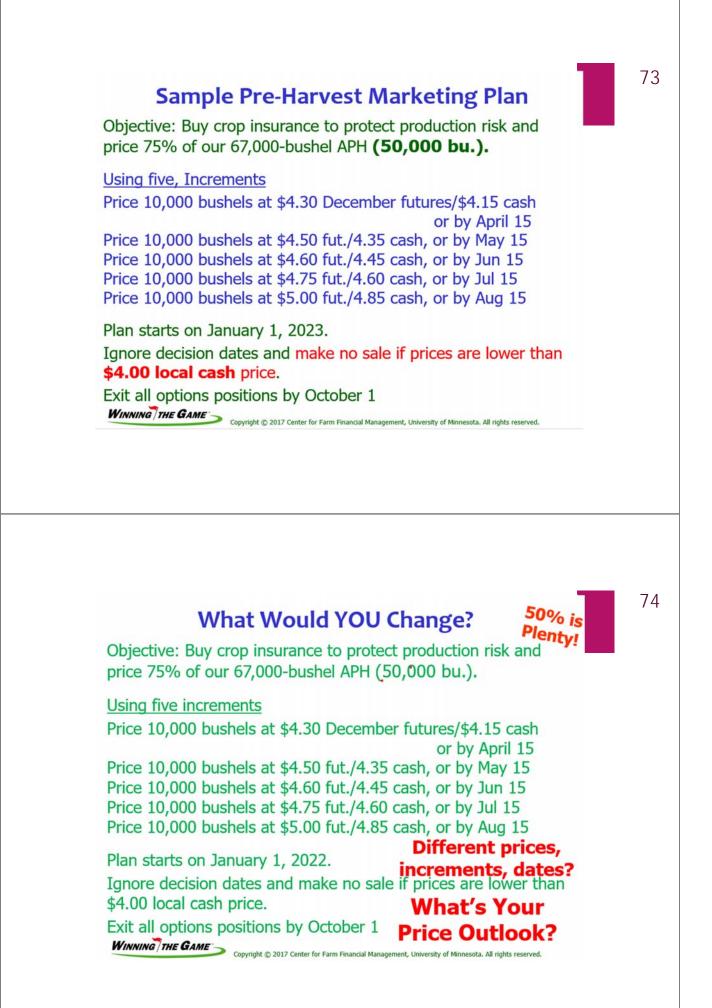
MY 2012/13 thru "New Crop" MY 2023/24^{Est} as of the January 12, 2023 USDA Reports











✓ What's a Realistic Max Price Target?

Let's start with the seasonals

		Jan 1	Preharvest		Percent
	2008/22	Price	Max Price	Change	Change
	2008	\$4.80	\$7.88	\$3.08	64%
	2009	\$4.56	\$4.73	\$0.17	4%
	2010	\$4.45	\$5.22	\$0.77	17%
	2011	\$5.53	\$7.75	\$2.23	40%
	2012	\$5.90	\$8.39	\$2.49	42%
Preharvest: On	2013	\$5.92	\$5.94	\$0.01	0%
average, 25% of	2014	\$4.48	\$5.13	\$0.65	14%
KS corn is	2015	\$4.20	\$4.52	\$0.32	8%
harvested by the	2016	\$3.77	\$4.49	\$0.72	19%
last week of	2017	\$3.84	\$4.15	\$0.31	8%
September; and	2018	\$3.87	\$4.27	\$0.40	10%
25% of KS milo	2019	\$3.98	\$4.69	\$0.70	18%
by mid-October.	2020	\$4.05	\$4.05	\$0.00	0%
	2021	\$4.35	\$6.37	\$2.02	46%
WINNING THE GAME	2022	\$5.48	\$7.66	\$2.18	40%

	2023	\$6.07	\$6.07	\$0.00	0%
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Let's put'em in order of "Change"

Let's put			0		
	Fifteen Ye	ears: CN	IE Decembe	er Corn F	utures
		Jan 1	Preharvest		Percent
	2008/22	Price	Max Price	Change	Change
220/ of the times	2008	\$4.80	\$7.88	\$3.08	64%
33% of the time; prices rise \$2.00 or more (>40%)	2012	\$5.90	\$8.39	\$2.49	42%
	2011	\$5.53	\$7.75	\$2.23	40%
	2022	\$5.48	\$7.66	\$2.18	40%
	2021	\$4.35	\$6.37	\$2.02	46%
670% of the time	2010	\$4.45	\$5.22	\$0.77	17%
67% of the time; prices rise \$0.40 or	2016	\$3.77	\$4.49	\$0.72	19%
more (>10%)	2019	\$3.98	\$4.69	\$0.70	18%
10/0 (> 10/0)	2014	\$4.48	\$5.13	\$0.65	14%
	2018	\$3.87	\$4.27	\$0.40	10%
87% of the time; prices rise \$0.17 or MORE	2015	\$4.20	\$4.52	\$0.32	8%
	2017	\$3.84	\$4.15	\$0.31	8%
	2009	\$4.56	\$4.73	\$0.17	4%
13% of the time;	2013	\$5.92	\$5.94	\$0.01	0%
there was no change	2020	\$4.05	\$4.05	\$0.00	0%
WINNING THE GAME	Consident (\$ 2017 Co	about for Free Fire	ncial Management Linking		table second

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		Preha			Ŭ			
Objective: E of my antici						on risk and p		/o
Price 5,000	bushels	at \$ \$5.90	cash pr	ice (\$		C ²⁰²³ future	s)	
					(contra	ct month) using	FC, Hedge, E	Basis Contract
rice 5,000	bushels	at \$ \$6.15	f/ \$6.10	c, or by	3/15/23	, 2023, using	FC, Hedge, B	asis Contract
rice <u>10,000</u>	bushels	at \$_\$6.40	f/ \$6.3	c, or by	4/15/23	, 2023, using	FC, Hedge, B	asis Contract
rice 10,000	bushels	at \$ \$6.65	f/ \$6.60	c, or by	5/15/23	, 2023, using	FC, Hedge, E	Basis Contract
rice 10,000	bushels	at \$ \$6.90	f/ \$6.8	c, or by	6/1/23	, 2023, using	FC, Hedge, E	asis Contrac
rice <u>10,000</u>	bushels	at \$ \$7.15	f/_\$7.10	c, or by	6/15/23	, 2023, using	FC, Hedge, I	Basis Contrac
rice 10,000	bushels	at \$ \$7.40	f/_\$7.35	c, or by	7/15/23	, 2023, using	FC, Hedge, I	Basis Contrac
lan starts	on F	ebruary 8, 2	2023	Comp	leted by	July 15, 2	.023	
un ene de ei	icion da	toc and m	ako no	calo if pr	icos aro l	ower than \$	\$5.00 Co	st of Prodr



Preharvest Mark	eting Plan	Win	NNING THE GAME
Objective: Buy crop insurance to protect my of my anticipated crop (based on APH yield)		and price 50 bushels.	%
Price 5,000 bushels at \$ \$5.90 cash price (\$	- DEC 2023	utures)	
	contract montl) נ	r) FC, Hedge	e, Basis Contract
Price 5,000 bushels at \$ \$6.15 f/ \$6.10 c, or by	3/15/23 , 2023, 0	FC, Hedge	e, Basis Contract
Price 10,000 bushels at \$_\$6.40 f/ \$6.35 c, or by	4/15/23 , 2023, 0	FC, Hedge	e, Basis Contract
Price 10,000 bushels at \$ \$6.65 f/ \$6.60 c, or by	5/15/23 , 2023, 1	FC, Hedge	e, Basis Contract
Price <u>10,000</u> bushels at \$ \$6.90 f/ \$6.85 c, or by	6/1/23 , 2023, 0	Ising FC, Hedge	e, Basis Contract
Price <u>10,000</u> bushels at \$ \$7.15 f/ <u>\$7.10</u> c, or by	6/15/23 , 2023 , u	Ising FC, Hedge	e, Basis Contract
Price 10,000 bushels at \$ \$7.40 f/ \$7.35 c, or by	7/15/23 , 2023, 1	Ising FC, Hedge	e, Basis Contract
Plan starts on February 8, 2023 . Comp	eted by July	15, 2023	
Ignore decision dates and make no sale if pr \$?.?? (month/commodity) future		nan \$\$5.00 (local cash pri	Cost of Prodn.

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