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Corn Market Outlook 2023

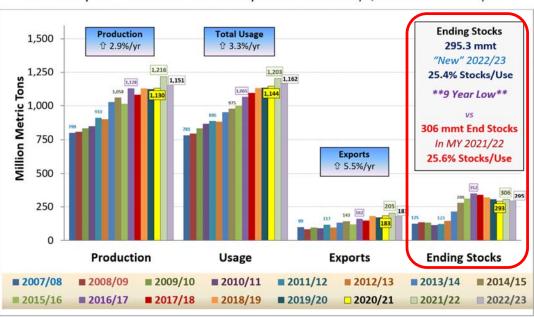
in Kansas, the U.S. & Globally

1) "Tight!" 2023 Global Corn, Oilseed & Wheat Stocks

- The importance of South America's 2023 corn & soybean crops!!
- Occurring &/or Anticipated in 2023:
 - o Drought in Argentina
 - o Smaller Crops & Exports from Ukraine

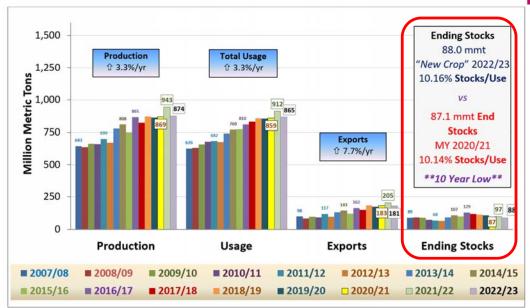
World Corn Supply-Demand

MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE Report



"World Less-China" Corn Supply-Demand

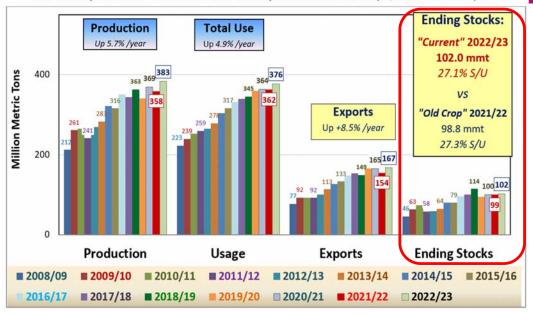
MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE Report



World vs "World Less-China" Corn % Stocks-to-Use MY 2007/08 through "Current" MY 2022/23, as of the February 8, 2023 USDA WASDE report. 35 % Ending Stocks-to-Use World Ending 30 Stocks 25 20 15.8 "World-less-15 China" Ending Stocks 10 10.1 10.7 10.2 5 World % Stocks-0 352 341 323 307 293 306 295 400 to-Use 300 200 'World-less-100 Million China" % Stocks-to-Use 2016 2018 2017 2019 **Marketing Years**

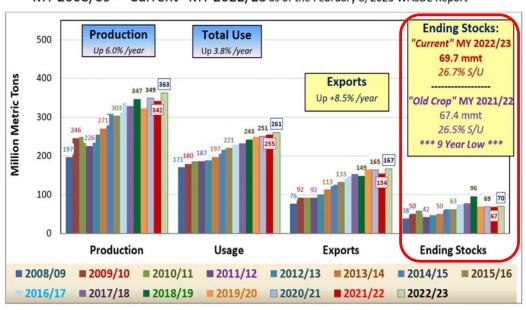
World Soybean Usage & Ending Stocks

MY 2008/09 thru "Current" MY 2022/23 as of the February 8, 2023 WASDE Report

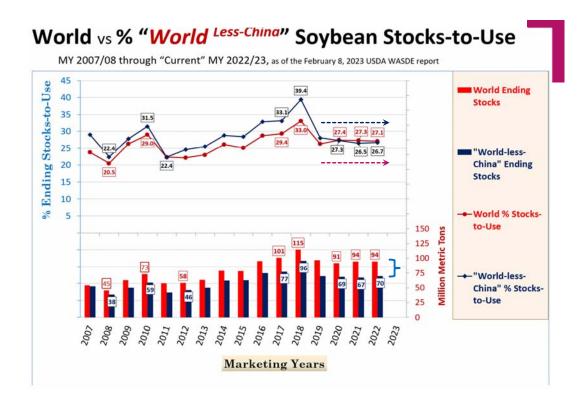


"World Less-China" Soybean Use & End Stocks

MY 2008/09 - "Current" MY 2022/23 as of the February 8, 2023 WASDE Report

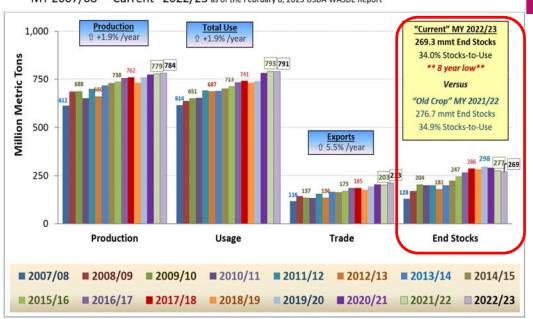






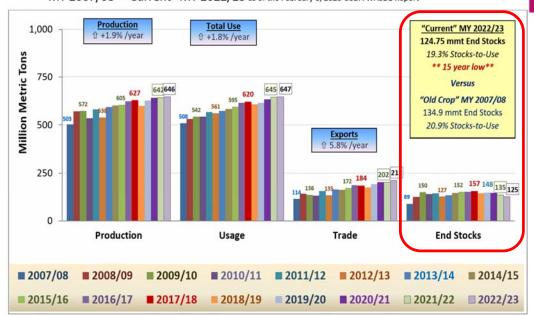
World Wheat Usage & Ending Stocks

MY 2007/08 - "Current" 2022/23 as of the February 8, 2023 USDA WASDE Report



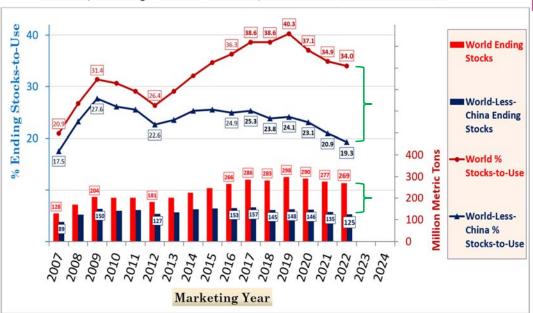
"World Less-China" Wheat Usage & Ending Stocks

MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE Report





MY 2007/08 through "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE report



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?
 - → Seasonal risk in Spring-Summer ²⁰²³ Dry subsoils in many areas

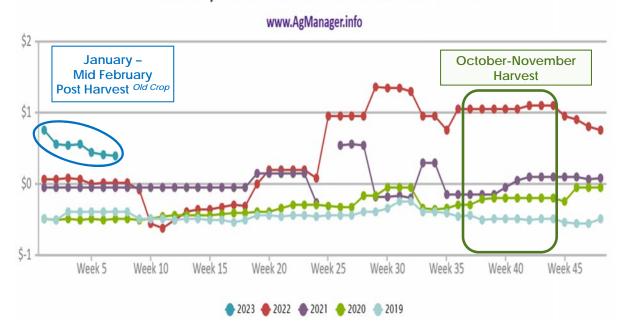


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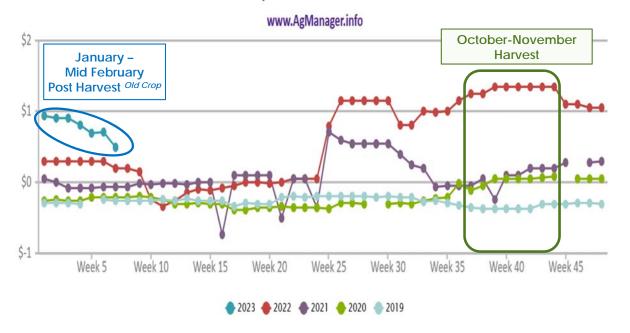
Kansas Cash & Futures Prices						
Date						
2/17/2023 (Market Closes)						
Grain Futures Contracts	Closing \$					
MAR 2023 Corn (2023 Lead contract)	\$6.7775					
DEC 2023 Corn (2023 Harvest Contract)	\$5.9675					
2/17/2023 (Market Closes)	Cash Grain &	Harvest Con	ract Prices @	Kansas Grain	Elevators	
	Representing the h					
Cash Market Spot & FC Bids	Plainville 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\$	\$7.27	\$7.34	\$7.12	\$8.03	\$7.63	\$7.63
Corn Spot Cash Basis	\$0.49	\$0.56	\$0.34	\$1.25	\$0.85	\$0.85
Corn Harvest FC\$: Fall 2023	\$5.66	\$5.81	\$5.65	\$6.41	\$5.96	\$5.7
Corn Harvest FC\$ Basis	(\$0.31)	(\$0.16)	(\$0.32)	\$0.44	(\$0.01)	(\$0.26
Grain Sorghum Spot Cash\$	\$7.07	\$7.12	\$7.17	\$7.18	\$7.22	\$6.8
Sorghum Spot Cash Basis	\$0.29	\$0.34	\$0.39	\$0.40	\$0.44	\$0.05
Grain Sorghum Harvest FC\$: Fall ²⁰²²	\$5.65	\$5.71	\$5.66	\$5.86	\$5.70	\$5.5
Sorghum Harvest FC\$ Basis	(\$0.32)	(\$0.26)	(\$0.31)	(\$0.11)	(\$0.27)	(\$0.46

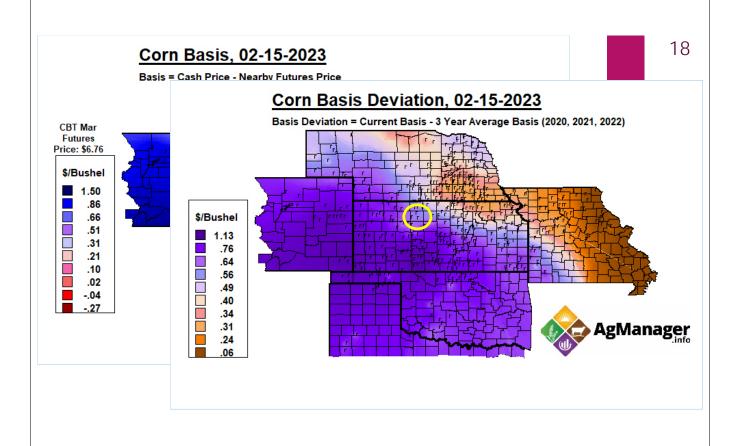
PLAINVILLE, KS: Corn Basis - MIDLAND MARKETING





WAKEENEY, KS: Corn Basis - CARGILL





Grain Market Outlook 2023......

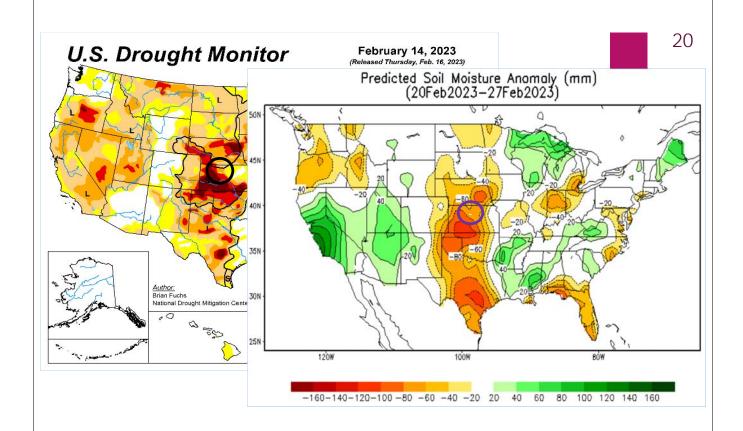
3) Continuance of dry La Nina Weather Pattern in 2023???

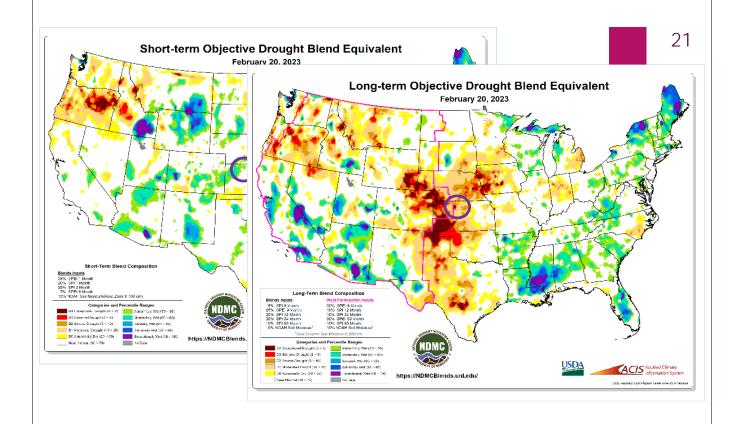
 "La Nina is expected to continue into winter, with equal chances of La Nina & ENSO-neutral during January-March 2023. In February-April 2023, there is a 71% Chance of ENSO-neutral."

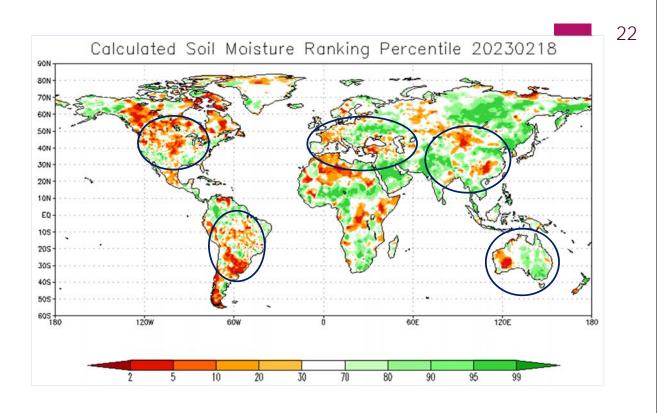
U.S. Climate Prediction Center / NCEP January 3, 2023

"ENSO-neutral conditions are expected to begin within the next few months,
& persist through the Northern Hemisphere spring & early summer."

USDA Weekly Weather and Crop Bulletin February 9, 2023 ENSO Diagnostic Discussion







Grain Market Outlook 2023......

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

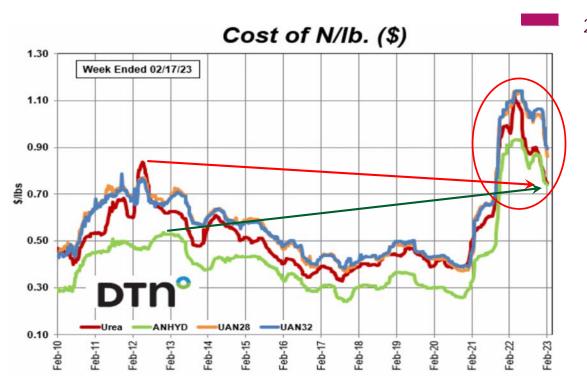
- Lower natural gas prices, w. but continued supply-chain challenges
- Lower fertilizer / crop input costs will <u>encourage</u> 2023 U.S. Corn Acres $-\approx$ 92 million acres in 2023
 - o 88.6 million acres in 2022
 - o 93.3 million acres in 2021
 - o 90.7 million acres in 2020

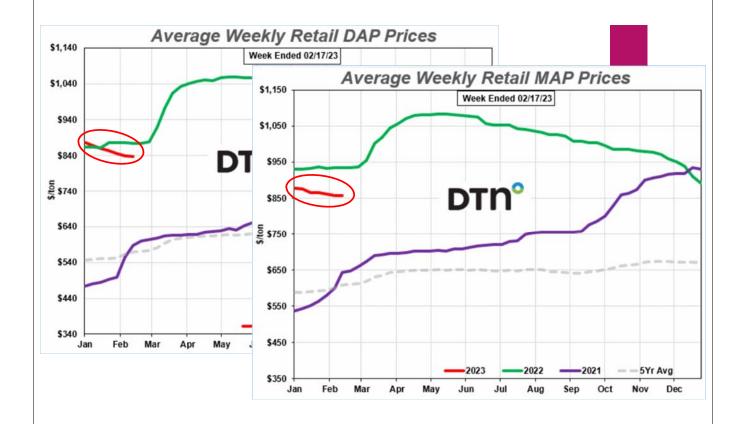


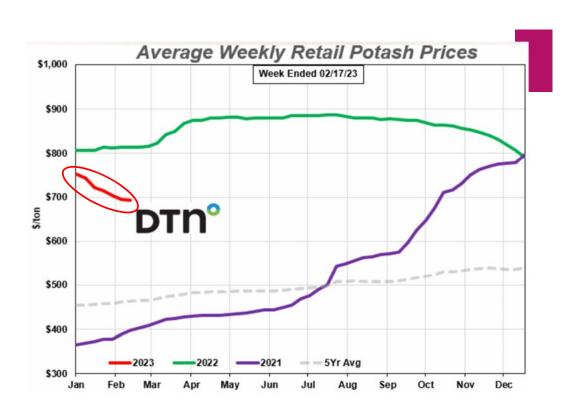
AMS Livestock, Poultry and Grain Market News IL Dept. of Ag Market News

February 9, 2023

Product	Sale Type	Price Range	Average	Change
Anhydrous Ammonia	Ask - FOB	1135.00-1320.00	1255.00	DN 46.1
Urea 46-0-0	Ask - FOB	610.00-690.00	655.00	DN 31.6
Liquid Nitrogen 28-0-0	Ask - DELV(Applied)	550.00-620.00	571.03	DN 34.1
DAP (Diammonium Phosphate 18%N 46%P)	Ask - FOB	800.00-850.00	828.00	UP 5.50
MAP (Monoammonium Phosphate 11%N 52%P)	Ask - FOB	790.00-860.00	833.33	DN 36.6
Potash (Potassium)	Ask - FOB	625.00-775.00	665.83	DN 30.8
Fuel				







Grain Market Outlook 2023

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

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

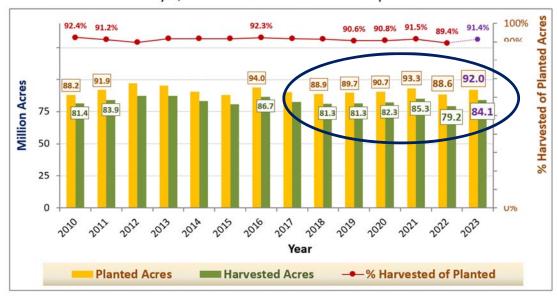
- 30
- 2023 Spring Planting of Feedgrains & Oilseeds
 - With <u>tight stocks</u> across crops any threats to planting 2023 U.S.
 <u>corn</u> or <u>soybeans</u> could cause *STRONG* price volatility
 - o **NOV²⁰²³ Soybean futures** @ \$13.86 ¼ /bu ^{2/17/2023 close}
 - o DEC²⁰²³ Corn futures @ \$5.95 3/4 /bu ^{2/17/2023 close}
 - > 2023 "New Crop" Soy/Corn \$ Ratio = \$13.86 1/4 ÷ \$5.95 3/4 = 2.33 (vs 2.52 Avg)

++ Corn

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

U.S. Corn Acreage for 2010-2023

As of the February 8, 2023 USDA NASS & WASDE Reports



U.S. Soybean Acreage for 2013-2023

Years 2013-2023 as of the February 8, 2023 USDA WASDE & NASS Reports



Grain Market Outlook 2023......

33

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
 - o Impacting U.S. soybeans, grain sorghum, likely all U.S. agricultural commodities including U.S. corn

Grain Market Outlook 2023......

34

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
- <u>Ukraine-Russia War Effect</u>: <u>Smaller</u> Ukraine corn, wheat crops+exports
- South America Impact: Brazil (Positive++) & Argentina(Negative-) crop prospects will effect U.S. prices through at least August²⁰²³

36

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
- ⇒ <u>Harvest</u>: March-June
- Corn: 2nd crop *Planting* January-February
- ⇒ Harvest: March-June

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

What to anticipate: Year 2023 (2nd of 3)

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
 - ⇒ <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

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

- □ **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: 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 2/17/2023 Closes									
Month	Close	Change	Carry /mo						
Mar ^{Lead} 23	\$6.77 3/4	企 \$0.01 ¾							
May 23	\$6.77 1/2	☆ \$0.02 ½	-\$0.00 ¹²⁵						
July 23	\$6.66	☆ \$0.02	-\$0.05 ⁷⁵						
Sept 23	\$6.10 3/4	☆ \$0.02	-\$0.27 ⁶²⁵						
Dec ^{Hvst} 23	\$5.95 3/4	☆ \$0.02 1/4	-\$0.05						
Mar 24	\$6.03	企 \$0.02 1/4	+\$0.02417						
May 24	\$6.06 1/2	企 \$0.02 1/4	+\$0.01 ⁷⁵						
July 24	\$6.06 1/4	चे \$0.02 ¹ / ₄	-\$0.00 ¹²⁵						

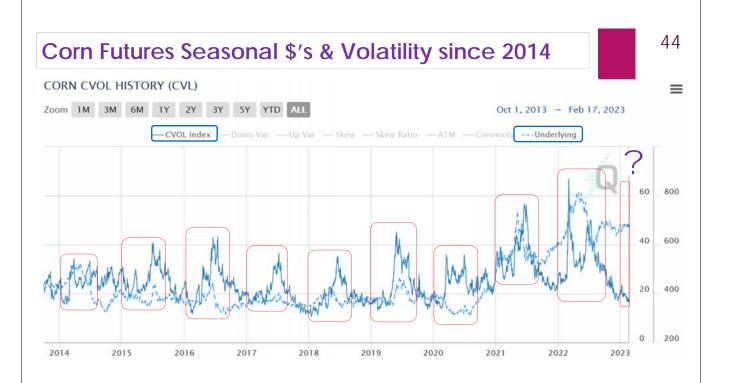
40 ELEC. CORN (@C2023H) **CME Corn** Historical Chart | Chart | Options | Futures Chain | Spread Matrix Current Month: Mar 2023 v prev | next \$7.68 ½ on 5/16/2022 **Futures** 760 740 \$7.11 3/4 "Old Crop" 730 720 710 MARCH ²⁰²³ 700 **OHLCs** \$6.77 3/4 /bu 630 \$6.35 620 12/7/22 610 Market Close 600 590 Friday, 580 570 \$5.68 ¾ on 7/22/2022 560 Feb-15 2/17/2023 Mar-01 Sep-12 Nov-29 Jan-08 Oct-20 ■ @C2023H











U.S. Corn Supply and Demand

Item	2021/2022 estimate	2022/2023 forecast	Change from January 12	Change from 2021/2022
Planted area (million acres)	93.3	88.6	_	-4.7
Harvested area (million acres)	85.3	79.2		-6.1
Yield (bushels per acre)	176.7	173.3		-3.3
		Million	bushels	
Beginning stocks	1,235	1,377		142
Production	15,074	13,730		-1,344
Imports	24	50		26
Total supply	16,333	15,157		-1,176
Feed and residual	5,718	5,275		-443
Food, seed, and industrial	6,766	6,690	-25	-76
Ethanol	5,326	5,250	-25	-76
Domestic use	12,484	11,965	-25	-519
Exports	2,471	1,925		-546
Total use	14,956	13,890	-25	-1,066
Ending stocks	1,377	1,267	25	-110
50.00 V 100.00 V 100.		Ре	rcent	-
Stocks to use ratio	9.2	9.1	0.2	-0.1
		Dollars	per bushel	
Average market price	6.00	6.70		0.70

-- No change.

February 8, 2023

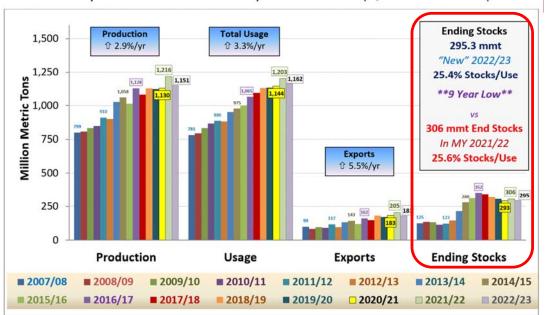
World Corn Production

	2021/2022	2022/2023	Change from	Change from
Country or Region	estimate	forecast	January 12	2021/2022
	8	Mil	lion Tons	
World	1,216.0	1,151.4	-4.6	-64.6
United States	382.9	348.8	-	-34.1
Foreign	833.1	802.6	-4.6	-30.5
Argentina	49.5	47.0	-5.0	-2.5
Brazil	116.0	125.0	_	9.0
Mexico	26.8	27.6	-	0.8
Canada	14.6	14.5		-0.1
European Union	71.0	54.2	-	-16.8
Serbia	6.0	5.4	-	-0.6
FSU-12	63.7	46.4	0.1	-17.3
Ukraine	42.1	27.0	122	-15.1
Russia	15.2	14.0		-1.2
South Africa	16.1	16.7	-	0.6
China	272.6	277.2	-	4.6
India	33.6	32.0		-1.6

-- No change.

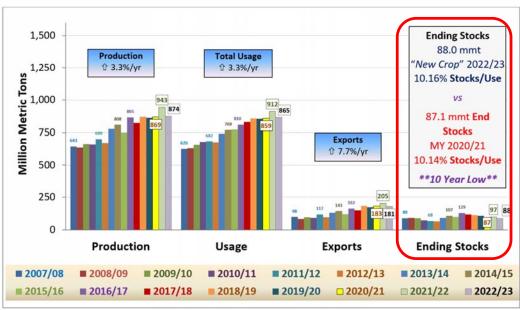
World Corn Supply-Demand

MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE Report



"World Less-China" Corn Supply-Demand

MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA WASDE Report



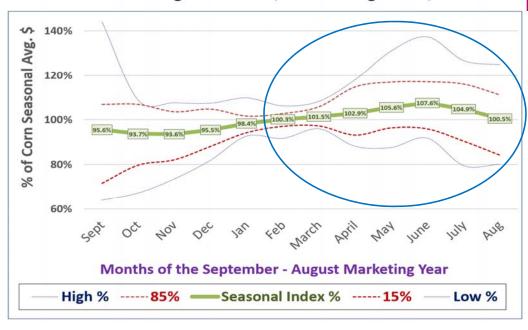
World vs "World Less-China" Corn % Stocks-to-Use

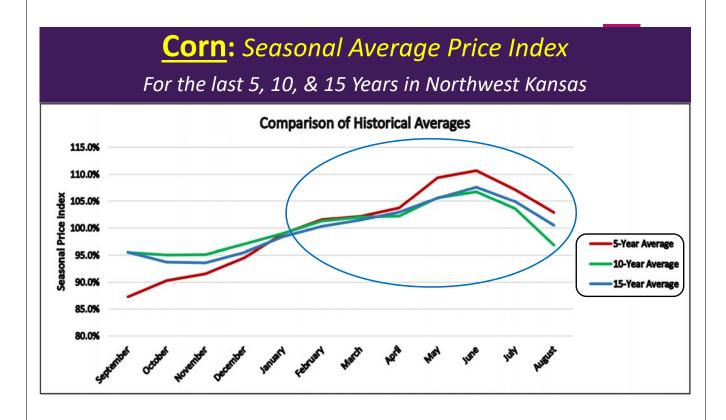
MY 2007/08 through "Current" MY 2022/23, as of the February 8, 2023 USDA WASDE report.



Corn Seasonal Price Index Northwest KS

Last 23 Marketing Years: 1999/2000 through 2021/2022





Corn Seasonal Prices Kansas-U.S.

Long Term Seasonal \$ Trends + MY 2021/22 & "Current" MY 2022/23 As of 2/17/2023



53

My DTN Cash Bids

My DTN Cash Bids for Postal Code 67663, Radius 300 miles

	_										
Elevator/Location	Feb 2023	Mar 2023	Apr 2023	May 2023	Jun 2023	Jul 2023	Aug 2023	Sep 2023	Oct 2023	Nov 2023	Dec 2023
MIDLAND MARKETING PLAINVILLE, KS	7.18										5.61
MIDLAND MARKETING ZURICH, KS	7.18										5.61
MIDLAND MARKETING PALCO, KS	7.18					\ 				-	5.61
MIDLAND MARKETING NATOMA, KS	7.18					-		-	1000		5.61
FARMERS UNION ELEVATOR STOCKTON, KS	7.08						7				<u>100.1</u>
MIDLAND MARKETING YOCEMENTO, KS	7.18										5.66
CARGILL OGALLAH, KS	7.27	1				-		13			
GOLDEN BELT COOP- RIGA ELLIS, KS	7.18				200			(<u>200</u> 2)		5.66	_
GOLDEN BELT COOPERATIVE ELLIS, KS	7.18						-			5.66	
MIDLAND MARKETING HAYS, KS	7.18							_			5.72
MIDLAND MARKETING TOULON, KS	7.18		Fric	day, F	ebruai	ry 17, 2	2023				5.66
UNITED AG SERVICE GORHAM, KS	7.58			575 A	200	1.555	1.777		5.89		

FC Basis: \$0.07 to \$0.35 <u>Under</u> DEC²³





54

February 17, 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 40.00K	UNCH	6.6300-7.1500	DN 0.0025-UP 0.0100	6.8467
Indiana	Bid	-7.00H to 13.00H	UNCH	6.6900-6.8900	DN 0.0025	6.8178
Iowa East	Bid	-25.00H to 13.00K		6.5100-6.8800	DN 0.0300-UP 0.0100	6.7145
Iowa West	Bid	5.00H to 50.00H	UNCH	6.8100-7.2600	DN 0.0025	7.0632
Kansas	Bid	40.00H to 75.00H	UNCH-DN 10	7.1600-7.5100	DN 0.0025-DN 0.1025	7.3767
Michigan	Bid	-30.00H to -17.00H	UNCH	6.4600-6.5900	DN 0.0025	6.5175
Minnesota	Bid	-25.00H to 29.00H	UNCH-DN 2	6.5100-7.0500	DN 0.0025-DN 0.0225	6.8383
Missouri	Bid	0.00H to 40.00H	UNCH	6.7600-7.1600	DN 0.0025	6.9150
Nebraska	Bid	25.00H to 70.00H	UP 5-DN 15	7.0100-7.4600	UP 0.0475-DN 0.1525	7.1479
Ohio	Bid	-10.00H to 7.00H	UNCH	6.6600-6.8300	DN 0.0025	6.7467
South Dakota	Bid	-10.00H to 46.00H	UNCH	6.6600-7.2200	DN 0.0025	6.8915
Wisconsin	Bid	-45.00H to -17.00H	UNCH	6.3100-6.5900	DN 0.0025	6.4350

56

PLAINVILLE, KS: Corn Basis - MIDLAND MARKETING



WAKEENEY, KS: Corn Basis - CARGILL



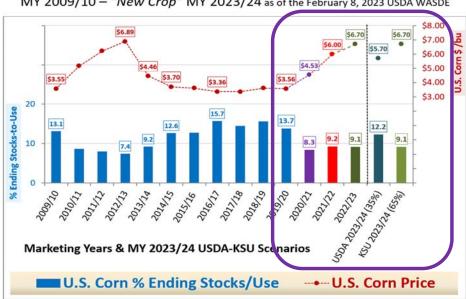
U.S. Corn Supply-Demand Balance Sheet

"Current" MY 2022/23 & Proj. "New Crop" MY 2023/24 as of the 2/8/2023 USDA WASDE + KSU Ests.

Item	USDA 2022/23 1/12/2023 WASDE 172.3 bu/ac 13.730 bb crop	A. USDA "New Crop" MY 2023/24 Scenario #1 "High Yields" = 181.5 bu/ac 15.265 bb crop	B. USDA "New Crop" MY 2023/24 Scenario 11 "Average Yields" = 176.0 bu/ac 14.802 bb crop
% Probability of Occurring (KSU)	75%KSUest	35%KSUest	65%KSUest
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	
Beginning Stocks (million bushels)	1,377	1,267	1,267
Production (million bu.)	13,730	15,265	14,802
Imports (million bu.)	50.0	25.0	25.0
Total Supply (million bu.)	15,157	16,556	16,094
Ethanol for fuel Use (million bu.)	5,250	5,325	5,325
Food & Industrial Use (mln 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.)	13,890	14,750	14,750
Ending Stocks (million bu.)	1,267	1,806	1,344
% Ending Stocks-to-Use	9.12%	12.07%	9.11%
Days of Supply (% S/U x 365 days)	33.3 days	44.1 days	33.3 days
U.S. Corn Average Farm Price (\$/bushel)	\$6.70 USDA \$6.61 KSU	\$5.70 USDA	\$6.70 KSU

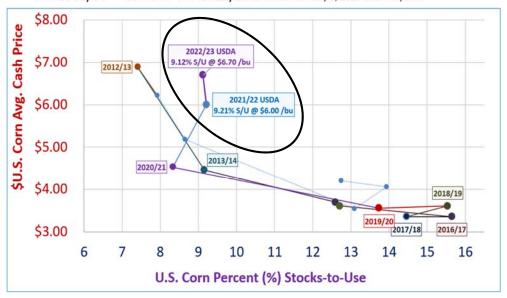
U.S. Corn % Stocks/Use vs Corn Price

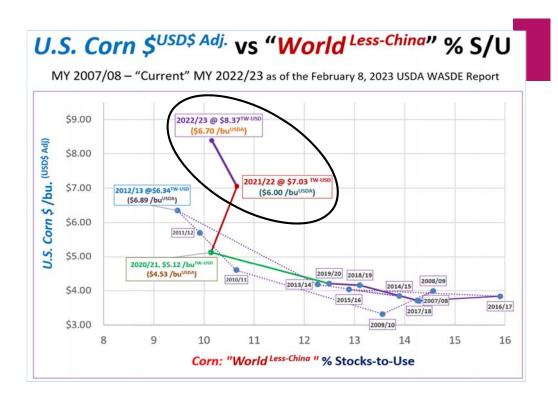
MY 2009/10 - "New Crop" MY 2023/24 as of the February 8, 2023 USDA WASDE



U.S. Corn Price vs U.S. % Stocks-to-Use

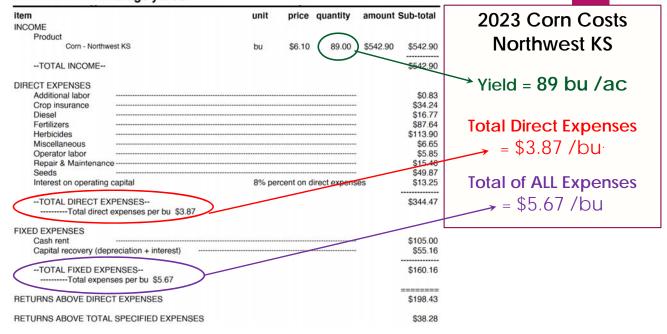
MY 2007/08 - "Current" MY 2022/23 as of the February 8, 2023 USDA Reports



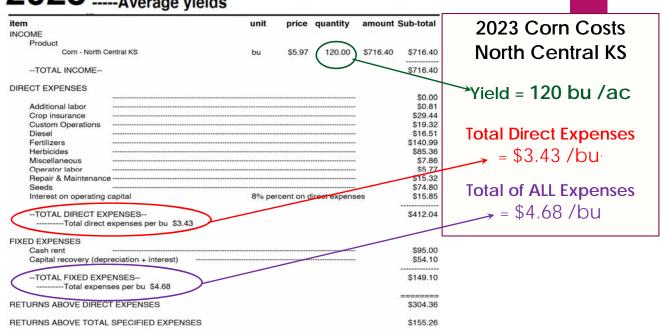


2023 Corn Cost-Return Budget (W-C-F Rotation) in Northwest Kansas

61



2023 Corn Cost-Return Budget in North Central Kansas

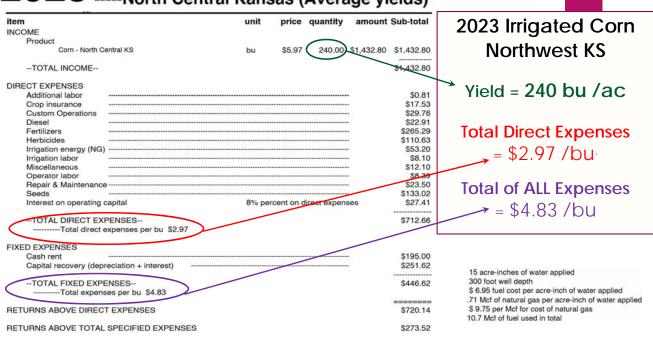


2023 Irrigated Corn (center-pivot) Cost-Return Budget -----Northwest Kansas (ave yields)

63



2023 Irrigated Corn (center-pivot) Cost-Return Budget -----North Central Kansas (Average yields)



2023 Preharvest Marketing Plan









KANSAS STATE

Department of Agricultural Economics

Preharvest Marketing Plan

WINNING	THE	GAME"

Price	bushels at \$	cash	price (\$	(contract mon	
Price	bushels at \$	f/	c, or by _	, 2023,	using
Price	bushels at \$	f/	c, or by _	, 2023,	using
Price	bushels at \$	f/	c, or by _	, 2023,	using
Price	bushels at \$	f/	c, or by _	, 2023,	using
Price	bushels at \$	f/	c, or by _	, 2023,	using
Price	bushels at \$	f/	c, or by _	, 2023,	using
Plan sta	rts on		Comple	eted by	

Sample Pre-Harvest Marketing Plan

Objective: Buy crop insurance to protect production risk and price 75% of our 67,000-bushel APH (50,000 bu.).

Using five, Increments

Price 10,000 bushels at \$4.30 December futures/\$4.15 cash or by April 15

Price 10,000 bushels at \$4.50 fut./4.35 cash, or by May 15

Price 10,000 bushels at \$4.60 fut./4.45 cash, or by Jun 15

Price 10,000 bushels at \$4.75 fut./4.60 cash, or by Jul 15

Price 10,000 bushels at \$5.00 fut./4.85 cash, or by Aug 15

Plan starts on January 1, 2023.

Ignore decision dates and make no sale if prices are lower than \$4.00 local cash price.

Exit all options positions by October 1

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What Would YOU Change?

Objective: Buy crop insurance to protect production risk and price 75% of our 67,000-bushel APH (50,000 bu.).

Using five increments

Price 10,000 bushels at \$4.30 December futures/\$4.15 cash

or by April 15

Price 10,000 bushels at \$4.50 fut./4.35 cash, or by May 15

Price 10,000 bushels at \$4.60 fut./4.45 cash, or by Jun 15

Price 10,000 bushels at \$4.75 fut./4.60 cash, or by Jul 15

Price 10,000 bushels at \$5.00 fut./4.85 cash, or by Aug 15

Plan starts on January 1, 2022.

Different prices,

Ignore decision dates and make no sale if prices are lower than \$4.00 local cash price. What's Your

Exit all options positions by October 1

Price Outlook?

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√What's a Realistic Max Price Target?

Let's start with the seasonals

Fifteen Years: CME December Corn Futures

		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%
Destaurant On	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%
w <u> </u>	2022	\$5.48	\$7.66	\$2.18	40%

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

	Fifteen Years: CME December Corn Futures				
	i iliceli i	Jan 1	Preharvest	CI COIII I	Percent
33% of the time; prices rise \$2.00 or more (>40%)	2008/22	Price	Max Price	Change	Change
	2008	\$4.80	\$7.88	\$3.08	64%
	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%
67% of the time; prices rise \$0.40 or more (>10%)	2010	\$4.45	\$5.22	\$0.77	17%
	2016	\$3.77	\$4.49	\$0.72	19%
	2019	\$3.98	\$4.69	\$0.70	18%
	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; there was no change	2013	\$5.92	\$5.94	\$0.01	0%
	2020	\$4.05	\$4.05	\$0.00	0%

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Preharvest Marketing Plan



Objective: Buy crop insurance to protect my production risk and price 50 % of my anticipated crop (based on APH yield) or 60,000 bushels.

```
Price 5,000 bushels at $ $5.90 cash price ($ ______ - DEC 2023 futures)
                                                   (contract month)
                                                                         FC, Hedge, Basis Contract
                                                                         FC, Hedge, Basis Contract
Price 5,000 bushels at $ $6.15 f/ $5.90 c, or by 3/15/23, 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $6.40 f/ $6.15 c, or by 4/15/23, 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $6.65 f/ $6.40 c, or by 5/15/23, 2023, using
Price 10,000 bushels at $ $6.90 f/ $6.65 c, or by 6/1/23 , 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $7.15 f/ $6.90 c, or by 6/15/23, 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $7.40 f/ $7.15 c, or by 7/15/23 2023, using
                                                                         FC, Hedge, Basis Contract
Plan starts on February 22, 2023 . Completed by
                                                              July 15, 2023
                                                                          $5.00 Cost of Prodn.
Ignore decision dates and make no sale if prices are lower than $
      $???? (month/commodity) futures / $__$??? local cash price.
```

Sample Pre-Harvest Corn Marketing Plan



Objective: Buy up crop insurance coverage to 80% to protect production risk; and preharvest price 80% of APH.

Using five increments

Price 20% at \$6.10 December futures, or by March 15 Price 20% at \$6.30 December futures, or by April 15 Price 20% at \$6.90 December futures, or by May 15 Price 30% at \$7.50 December futures, or by June 15 Price 10% at \$8.25 December futures, or by July 15

Ignore decision dates and make no sale if prices are lower than \$5.50 local cash price.

Exit all options positions prior to Harvest



Preharvest Marketing Plan



Objective: Buy crop insurance to protect my production risk and price 50 % of my anticipated crop (based on APH yield) or 60,000 bushels.

```
Price 5,000 bushels at $ $5.90 cash price ($ ______futures) (contract month)
                                                                         FC, Hedge, Basis Contract
                                                                         FC, Hedge, Basis Contract
Price 5,000 bushels at $ $6.15 f/ $5.90 c, or by 3/15/23, 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $6.40 f/ $6.15 c, or by 4/15/23, 2023, using
                                                                         FC, Hedge, Basis Contract
Price 10,000 bushels at $ $6.65 f/ $6.40 c, or by 5/15/23, 2023, using
Price 10,000 bushels at $ $6.90 f/ $6.65 c, or by 6/1/23, 2023, using
                                                                          FC, Hedge, Basis Contract
Price 10,000 bushels at $ $7.15 f/ $6.90 c, or by 6/15/23, 2023, using
                                                                          FC, Hedge, Basis Contract
                                                                          FC, Hedge, Basis Contract
Price 10,000 bushels at $ $7.40 f/ $7.15 c, or by 7/15/23, 2023, using
Plan starts on February 22, 2023 . Completed by
                                                              July 15, 2023
                                                                           $5.00 Cost of Prodn.
Ignore decision dates and make no sale if prices are lower than $
       $ ???? (month/commodity) futures / $ $ ???? local cash price.
```

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