### 2023 Corn Markets & Strategies

'Winning-The-Game' Grain Marketing Workshop

Beloit, Kansas

Monday, February 27, 2023

DANIEL O'BRIEN EXTENSION AGRICULTURAL ECONOMIST

KANSAS STATE

Department of Agricultural Economics





# Forecasted planted acres for 23/24 above 22/23, *except for cotton*

2018	2019	2020	2021	2022	2023F	%Δ
88.9	89.7	90.7	93.3	88.6	91.0	2.7%
89.2	76.1	83.4	87.2	87.5	87.5	0.0
47.8	45.5	44.5	46.7	45.7	49.5	8.2%
14.1	13.7	12.1	11.2	13.8	10.9	-20.8%
2.9	2.6	3.0	2.5	2.2	2.5	12.5%
5.7	5.3	5.9	7.3	6.3	6.5	2.8%
	88.9 89.2 47.8 14.1 2.9	88.9         89.7           89.2         76.1           47.8         45.5           14.1         13.7           2.9         2.6	88.9         89.7         90.7           89.2         76.1         83.4           47.8         45.5         44.5           14.1         13.7         12.1           2.9         2.6         3.0	88.9         89.7         90.7         93.3           89.2         76.1         83.4         87.2           47.8         45.5         44.5         46.7           14.1         13.7         12.1         11.2           2.9         2.6         3.0         2.5	88.9         89.7         90.7         93.3         88.6           89.2         76.1         83.4         87.2         87.5           47.8         45.5         44.5         46.7         45.7           14.1         13.7         12.1         11.2         13.8           2.9         2.6         3.0         2.5         2.2	88.989.790.793.388.691.089.276.183.487.287.587.547.845.544.546.745.749.514.113.712.111.213.810.92.92.63.02.52.22.5

### Corn Market Outlook

	2021/22	2022/23	2023/24	Change yr/yr			
Area planted (mil acres)	93.3	88.6	91	2.4			
Area harvested (mil acres)	85.3	79.2	83.1	3.9			
Yield (bu/acre)	176.7	173.3	181.5	8.2			
	Million bushels						
Beginning stocks	1,235	1,377	1,267	(110)			
Production	15,074	13,730	15,085	1,355			
Imports	24	50	25	(25)			
Total supply	16,333	15,157	16,377	1,220			
Domestic use (total)	12,484	11,965	12,290	325			
-Feed and residual	5,718	5,275	5,600	325			
-Food, seed, and industrial	6,766	6,690	6,690				
Ethanol and byproducts	5,326	5,250	5,250	-			
Exports	2,471	1,925	2,200	275			
Ending stocks	1,377	1,267	1,887	620			
Stocks-to-use (percent)	9.2	9.1	13.0	3.9			
Average farm price (\$/bushel)	6.00	6.70	5.60	(1.10)			

- Production boosted with larger area planted and trend yields
- Domestic feed and residual use rebounding with higher supplies
- Higher exports
- Ethanol use unchanged at 5.25 billion bushels with steady gasoline consumption
- · Ending stocks projected up
- Price forecast lower

### Sorghum Market Outlook

	2021/22	2022/23	2023/24	Change yr/yr
Area planted (mil acres)	7.3	6.3	6.5	0.2
Area harvested (mil acres)	6.5	4.6	5.7	1.1
Yield (bu/acre)	69	41.1	69.2	28.1
		Milli	on bushels	6
Beginning stocks	20	47	25	(22)
Production	448	188	394	206
Imports	-	-	-	-
Total supply	468	235	419	184
Domestic use (total)	127	120	155	35
-Feed and residual	81	70	105	35
-Food, seed, and industrial	45	50	50	-
Exports	294	90	230	140
Ending stocks	47	25	34	9
Stocks-to-use (percent)	11.2	11.9	8.8	(3.1)
Average farm price (\$/bushel)	5.94	6.90	5.60	(1.30)

- Production boosted with return to normal yield and larger area
- Feed and residual use higher with larger crop
- Exports seen bouncing back based on larger supplies
- Stocks rebuilding slightly

### Soybean Market Outlook

	2021/22	2022/23	2023/24	Change yr/yr		
Area planted (mil acres)	87.2	87.5	87.5	0		
Area harvested (mil acres)	86.3	86.3	86.7	0.4		
Yield (bu/acre)	51.7	49.5	52	2.5		
	Million bushels					
Beginning stocks	257	274	225	(49)		
Production	4,465	4,276	4,510	234		
Imports	16	15	15	-		
Total supply	4,738	4,566	4,750	184		
Crush	2,204	2,230	2,310	80		
Exports	2,158	1,990	2,025	35		
Total use	4,464	4,340	4,461	121		
Ending stocks	274	225	290	65		
Stocks-to-use (percent)	6.1	5.2	6.5	1.3		
Average farm price (\$/bushel)	13.30	14.30	12.90	(1.40)		

- Production up mainly on return to trend yield
- Growth in crush to support larger soyoil use
- Exports up slightly
- Stocks larger
- Price forecast lower

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### Wheat Market Outlook

	2021/22	2022/23	2023/24	Change yr/yr		
Area planted (mil acres)	46.7	45.7	49.5	3.8		
Area harvested (mil acres)	37.1	35.5	38.4	2.9		
Yield (bu/acre)	44.3	46.5	49.2	2.7		
	Million bushels					
Beginning stocks	845	698	568	(130)		
Production	1,646	1,650	1,887	237		
Imports	95	120	120	-		
Total supply	2,587	2,468	2,575	107		
Domestic use (total)	1,088	1,125	1,142	17		
-Food use	972	975	977	2		
-Seed use	58	70	65	(5)		
-Feed and residual	59	80	100	20		
Exports	800	775	825	50		
Total use	1,888	1,900	1,967	67		
Ending stocks	698	568	608	40		
Stocks-to-use (percent)	37.0	29.9	30.9	1.0		
Average farm price (\$/bushel)	7.63	9.00	8.50	(0.50)		

- Area up on strong price incentives
- Yield back to trend
- Slow growth in food use
- Feed and residual up with larger supplies
- Exports up, but still relatively low
- Stocks rebounding slightly

USDA Office of the Chief Economist



ted States Department of Agriculture



### **Corn Market Outlook**<sup>2023</sup> *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 & large crops in Brazil

• Smaller Crops & Exports from Ukraine & uncertainty re: China

#### World Corn Production

	2021/2022	2022/2023	Change from	Change from			
<b>Country or Region</b>	estimate	forecast	January 12	2021/2022			
	Million Tons						
World	1,216.0	1,151.4	-4.6	-64.6			
<b>United States</b>	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	23 <del></del> 2	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		-15.1			
Russia	15.2	14.0		-1.2			
South Africa	16.1	16.7		0.6			
China	272.6	277.2	18	4.6			
India	33.6	32.0		-1.6			

February 8, 2023









#### "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.



### Grain Market Outlook <sup>2023</sup>

#### 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 <sup>2023</sup> – Still dry in some areas

Kansas Cash & Futures F	Prices					
Date						
2/24/2023 Market Closes						
Grain Futures Contracts	Closing \$					
MAR 2023 Corn (2023 Lead contract)	\$6.5000					
DEC 2023 Corn (2023 Harvest Contract)	\$5.7625					
2/24/2023 Market Closes	Cash Grain &	Harvest Con	tract Prices	@ Kansas Grain	Elevators	
	Representing the l	highest bids availa	ble at each locati	ion		
Cash Market Spot & FC Bids	Colby Area	Salina Area	Topeka <sup>Area</sup>	Garden City Area	Hutchinson Area	Columbus Area
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Corn Spot Cash\$	\$7.10	\$6.99	\$6.85	\$7.75	\$7.40	\$7.20
Corn Spot Cash Basis	\$0.60	\$0.49	\$0.35	\$1.25	\$0.90	\$0.70
Corn Harvest FC\$: Fall 2023	\$5.66	\$5.61	\$5.46	\$6.31	\$5.76	\$5.51





### Grain Market Outlook <sup>2023</sup>......

#### 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."

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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 <sup>January 11, 2023</sup>





### Grain Market Outlook <sup>2023</sup>......

#### 4) Moderating Fertilizer \$'s & other Crop Input costs

#### • Lower natural gas \$'s, but continued supply-chain challenges

U	S	DA

Iowa Production Cost Summary

AMS Livestock, Poultry and Grain Market News February 21, 2023

IA Dept. of Ag Market News				
Product	Unit	Offer	Average	Change
Anhydrous Ammonia	Per Ton	1,175.00 - 1,200.00	1,191.00	DN 8.55
Urea 46-0-0	Per Ton	650.00 - 796.00	740.50	DN 24.75
Liquid Nitrogen 32-0-0	Per Ton	525.00 - 628.00	587.67	DN 30.33
MAP (Monoammonium Phosphate 11%N 52%P)	Per Ton	725.00 - 1,025.00	872.00	DN 35.50
Potash (Red) 0-0-60	Per Ton	520.00 - 875.00	676.00	DN 99.83
Farm Diesel < 1000 gallons	Per Gallon	3.35 - 3.40	3.38	DN 0.16
Propane (LP Gas) < 1000 gallons	Per Gallon	1.79 - 2.15	1.97	UP 0.04











### What to anticipate: Year 2023

- 7) <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.....
  - Planted Area: Prospective Plantings May 31, Acreage June 30
- <u>"Strong" Demand-Pull for Feedgrains in Kansas<sup>2023</sup></u>
  - Summer demand for "New Crop" supplies (i.e. "users scrambling!")

### Corn Market Outlook

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	Million bushels						
Beginning stocks	1,235	1,377	1,267	(110)			
Production	15,074	13,730	15,085	1,355			
Imports	24	50	25	(25)			
Total supply	16,333	15,157	16,377	1,220			
Domestic use (total)	12,484	11,965	12,290	325			
-Feed and residual	5,718	5,275	5,600	325			
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Stocks-to-use (percent)	9.2	9.1	13.0	3.9			
Average farm price (\$/bushel)	6.00	6.70	5.60	(1.10)			

- Production boosted with larger area planted and trend yields
- Domestic feed and residual use rebounding with higher supplies
- Higher exports
- Ethanol use unchanged at 5.25 billion bushels with steady gasoline consumption
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- Price forecast lower



National Daily Ethanol Report

Agricultural Marketing Service Livestock, Poultry, and Grain Market News

			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 36.00K	UNCH	6.4725-6.9525	DN 0.1375-DN 0.1500	6.6675
Indiana	Bid	-10.00H to 13.00H	UNCH	6.5025-6.7325	DN 0.1375	6.6436
Iowa East	Bid	-15.00H to 13.00K	UNCH	6.4525-6.7225	DN 0.1375-DN 0.1500	6.5761
Iowa West	Bid	5.00H to 50.00H	UNCH	6.6525-7.1025	DN 0.1375	6.9020
Kansas	Bid	30.00H to 70.00K		6.9025-7.2925	DN 0.1375-DN 0.1475	7.1325
Michigan	Bid	-30.00K to -22.00K	UNCH	6.2925-6.3725	DN 0.1500	6.3425
Minnesota	Bid	-25.00H to 29.00H	UNCH	6.3525-6.8925	DN 0.1375	6.6808
Missouri	Bid	-2.00H to 40.00H	UNCH	6.5825-7.0025	DN 0.1375	6.7475
Nebraska	Bid	20.00H to 70.00H		6.8025-7.3025	DN 0.1375-DN 0.1400	6.9882
Ohio	Bid	-10.00H to 3.00K		6.5025-6.6225	DN 0.1375-DN 0.1675	6.5592
South Dakota	Bid	-12.00H to 42.00H	UNCH	6.4825-7.0225	DN 0.1375	6.7248
Wisconsin	Bid	-45.00H to -17.00H	UNCH	6.1525-6.4325	DN 0.1375	6.2775

### U.S. Ethanol Production & Stocks Weekly

Based on U.S. DOE - EIA on U.S. Ethanol Industry Trends as of February 17, 2023



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February 24, 2023



#### **U.S. Corn Supply-Demand Balance Sheet**

"Current" MY 2022/23 & Proj. "New Crop" MY 2023/24 as of the 2/26/2023 USDA Info. + KSU Ests.

ltem	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 #1 "Average Yields" = 176.0 bu/ac 14.802 bb crop		
% Probability of Occurring (KSU)	75% <sup>KSUest</sup>	35% <sup>KSUest</sup>	65% <sup>KSUest</sup>		
Planted Area (million acres)	88.579	91.000	91.000		
Harvested Area (million acres)	79.207	83.100	83.100		
% Harvested/Planted Area	91.322%	91.32%	91.32%		
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	15,085	14,626		
Imports (million bu.)	50.0	25.0	25.0		
Total Supply (million bu.)	15,157	16,377	15,918		
Ethanol for fuel Use (million bu.)	5,250	5,250	5,250		
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	2,200	2,200		
Feed & Residual Use (million bu.)	5,275	5,600	5,600		
Total Use (million bu.)	13,890	14,490	14,490		
Ending Stocks (million bu.)	1,267	1,887	1,428		
% Ending Stocks-to-Use	9.12%	13.02%	9.86%		
Days of Supply (% s/U x 365 days)	33.3 days	47.5 days	36.0 days		
U.S. Corn Average Farm Price (\$/bushel)	\$6.70 USDA \$6.61 KSU	\$5.60 USDA	\$5.85 KSU		



MY 2009/10 - "New Crop" MY 2023/24 as of the February 26, 2023 USDA Info. \$8.00 \$6.89 \$6.70 \$7.00 /Pr \$5.60 \$5.85 Corn \$ / \$6.00 \$4.5 \$5.00 \$4.46 \$3.70 \$3.56 U.S. 0 \$3.55 \$3.36 \$4.00 . \$3.00 20 % Ending Stocks-to-Use 15.7 13.7 13.1 13.0 12.6 9.9 9.2 9.1 10 8.3 (52)4 203 234 238 288) 0 stilles <016/1> <018102 2009110 <01/13 Statoz 2015102 02/672 150000 <0511-02 15(22)3134(65%) 5010111 2013,14 sols 13 Marketing Years & MY 2023/24 USDA-KSU Scenarios U.S. Corn % Ending Stocks/Use ---- U.S. Corn Price

USDA Office of the Chief Economist

#### Prices are expected to come down on the strength of the 2022/23 crop

Сгор	2012-2016 avg	2017	2018	2019	2020	2021	2022	2023	∆ <b>2023</b>
Corn (\$ / bu.)	4.40	3.36	3.61	3.56	4.53	6.00	6.70	5.60	-16.4%
All Rice (\$ cwt)	13.48	12.90	12.60	13.60	<mark>14.4</mark> 0	16.10	19.40	18.40	-5.2%
Sorghum (\$ / bu.)	4.15	3.22	3.26	3.34	5.04	5.94	6.90	5.60	-18.8%
Soybeans (\$ / bu.)	11.18	9.33	8.48	8.57	10.80	13.30	14.30	12.90	- <b>9.8</b> %
Upland Cotton (\$ / lb)	0.68	0.69	0.70	0.60	0.66	0.91	<b>0.83</b>	0.80	-3.6%
Wheat (\$ / bu.)	5.88	4.72	5.16	4.58	5.05	7.63	9.00	8.50	-5.6%
Barley (\$ / bu.)	5.73	4.47	4.62	4.69	4.75	5.31	7.30		
Oats (\$/ bu.)	3.31	2.59	2.66	2.82	2.77	4.55	4.85		

Source: USDA OCE-WAOB, Marketing Year prices, Barley and Oat prices not forecast for the Ag Outlook Forum.



MY 2007/08 - "Current" MY 2022/23 as of February 26, 2023 USDA Information



# **Corn Market Prices**



CME Corn Futures 2/24/2023 Closes							
Month	Close	Change	Carry /mo				
Mar <sup>Lead</sup> 23	\$6.50	₽ \$0.10 ¼					
May 23	\$6.49 1/4	<b>\$ \$0.10</b>	-\$0.00 <sup>375</sup>				
July 23	\$6.38 <sup>3</sup> ⁄ <sub>4</sub>	<b>\$ \$0.12</b>	-\$0.0525				
Sept 23	\$5.90 <sup>3</sup> / <sub>4</sub>	₽ \$0.09 ¼	-\$0.24				
Dec <sup>Hvst</sup> 23	\$5.76 1/4	₽ \$0.09 ¼	-\$0.04 <sup>833</sup>				
Mar 24	\$5.84 1/2	₽ \$0.08 ¾	+\$0.0275				
May 24	\$5.89 1/4	<b>垠 \$0.08</b> ¾	+\$0.02375				
July 24	\$5.91 1/4	<b>歩 \$0.08</b>	+\$0.02				





### CME Corn Futures Continuous Weekly to 2/24/2023



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

Item	unit	price	quantity	amount Sub-total	2023 Corn Costs
Product			$\frown$		
Corn - North Central KS	bu	\$5.97	240.00	\$1,432.80 \$1,432.80	NC Kansas Irrigated
TOTAL INCOME			$\smile$	\$1,432.80	
DIRECT EXPENSES					→ Yield = 240 bu /ac
Additional labor				- \$0.81	
Crop insurance				- \$17.53 - \$29.76	
Custom Operations Diesel				- \$29.76	
Fertilizers				- \$265.29	Total Direct Exponses
Herbicides				- \$110.63	Total Direct Expenses
Irrigation energy (NG)				- \$53.20	¢2.07 /bu
Irrigation labor				- \$8.10	s = \$2.97 /bu <sup>.</sup>
Miscellaneous				\$12.10	
Operator labor				- \$8.39	
Repair & Maintenance				\$23.50	Total of ALL Expenses
Seeds				- \$133.02	I Utal ULALL Expenses
Interest on operating capital	8% pe	rcent on o	lirect expen	ses \$27.41	¢ 4 00 /bu
					<b>s</b> = \$4.83 /bu
TOTAL DIRECT EXPENSES				\$712.66	
Total direct expenses per bu \$2.97					
FIXED EXPENSES					
Cash rent		~		- \$195.00	
Capital recovery (depreciation + interest)				- \$251.62	
TOTAL FIXED EXPENSES Total expenses per bu \$4.83				\$446.62	
RETURNS ABOVE DIRECT EXPENSES				\$720.14	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				\$273.52	



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#### What Would YOU Change?



**Price Outlook?** 

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. 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

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#### ✓ 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%
narvested 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%

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	2023	\$6.07	\$6.07	\$0.00	0%
Let's put'e	em in oro	der of '	'Change"		
	Fifteen Ye	ears: CN	IE Decembe	er Corn F	utures
		Jan 1	Preharvest		Percent
	2008/22	Price	Max Price	Change	Change
220/ of the time	2008	\$4.80	\$7.88	\$3.08	64%
33% of the time;	2012	\$5.90	\$8.39	\$2.49	42%
prices rise \$2.00 or more (>40%)	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; here was no change	2013	\$5.92	\$5.94	\$0.01	0%
	2020	\$4.05	\$4.05	\$0.00	0%

#### **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) using _	FC, Hedge, Basis Contract					
Price 5,000 bushels at \$ \$6.15 f/ \$5.95 c, or by	3/15/23 , 2023, using	FC, Hedge, Basis Contract					
Price 10,000 bushels at \$ \$6.40 f/ \$6.20 c, or by	4/15/23 , 2023, using	FC, Hedge, Basis Contract					
Price 10,000 bushels at \$ \$6.65 f/ \$6.45 c, or by	5/15/23 , 2023, using	FC, Hedge, Basis Contract					
Price 10,000 bushels at \$ \$6.90 f/ \$6.70 c, or by	6/1/23 , <b>2023, using</b>	FC, Hedge, Basis Contract					
Price 10,000 bushels at \$ \$7.15 f/ \$6.95 c, or by	6/15/23 , 2023, using _	FC, Hedge, Basis Contract					
Price 10,000 bushels at \$ \$7.40 f/ \$7.20 c, or by	7/15/23 , 2023, using _	FC, Hedge, Basis Contract					
Plan starts on February 14, 2023 . Completed by July 15, 2023 .							
Ignore decision dates and make no sale if pr	ices are lower than \$	\$5.00 Cost+ Minimum					
\$ ?.?? (month/commodity) futures / \$ \$ ?.?? local cash price.							

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WINNING THE GAME



## Questions?

Daniel O'Brien – Extension Ag Economist

Blog: www.ksugrains.wordpress.com

KSUGrains on Twitter

www.AgManager.info

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