

Key Dates Coming Up re: Grain Markets

- January 12th USDA Annual Crop Summary, WASDE, Stocks, Wheat Seedings
- February 9th USDA WASDE
- February 24-25 USDA Agricultural Outlook Forum with MY 2021/22 forecasts
- March 9th USDA WASDE
- March 31st USDA Grain Stocks & Prospective Plantings
- April 8th USDA WASDE
- $\bullet\,$ May 12th USDA WASDE with 1st "New Crop" MY 2021/22 monthly forecast
- June 10th USDA WASDE
- June 30th USDA Grain Stocks & Acreage

Item	2020/2021 estimate	2021/2022 forecast	Change from December 9	Change from 2020/2021
Planted area (million acres)	90.7	93.4	0.1	2.7
Harvested area (million acres)	82.3	85.4	0.3	3.1
field (bushels per acre)	171.4	177.0	**	5.6
	,	Million	bushels	-
Beginning stocks	1,919	1,235	-2	-685
Production	14,111	15,115	53	1,004
mports	24	25		1
Total supply	16,055	16,375	51	320
eed and residual	5,602	5,650	-	48
ood, seed, and industrial	6,466	6,760	80	294
Ethanol	5,028	5,325	75	297
Domestic use	12,068	12,410	80	342
Exports	2,753	2,425	-75	-328
Total use	14,821	14,835	5	14
Ending stocks	1,235	1,540	46	305
		Pe	rcent	-
Stocks to use ratio	8.3	10.4	0.3	2.0
		Dollars	per bushel	
Average market price	4.53	5.45	-	0.92

Corn Futures Closes, Changes & Market Carry

on Monday, January 31, 2022

	Corn	Futures	
Month	Close	Change	Carry /mo
Mar ^L 22	\$6.26	₽ \$0.10	
May 22	\$6.24 1/2	₽ \$0.08 ¾	No Carry
July 22	\$6.19 1/4	₽ \$0.07	No Carry
Sept 22	\$5.85 1/2	ग्रे \$0.01 ¼	No Carry
Dec ^H 22	\$5.73 1/2	ग्रे \$0.04	No Carry
Mar 23	\$5.81	☆ \$0.04	\$0.0250
May 23	\$5.83 3/4	爺 \$0.03 ¾	\$0.01375
July 23	\$5.83 1/4	ग्रे \$0.03 ½	No Carry

CME Corn MARCH²⁰²² Daily OHLC

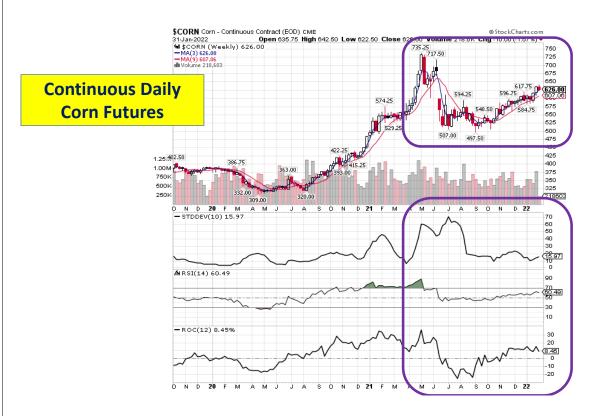
12/13/2019 to 1/31/2022



CME Corn DEC²⁰²² Daily OHLC 12/1/2018 to

1/31/2022





Date											
1/31/2022											
Grain Futures Contracts	Closing \$										
MAR 2022 Corn (Lead contract)	\$6.2550										
DEC 2022 Corn (2022 Harvest Contract)	\$5.7275										
1/31/2022	Cash Grain &	Harvest Cont	ract Prices @	Kansas Grain	Elevators						
	Representing the h	Representing the highest bids available at each location									
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\$	\$6.46	\$6.41	\$6.36	\$6.66	\$6.61	\$6.21					
Corn Spot Cash Basis	\$0.21	\$0.16	\$0.11	\$0.41	\$0.36	(\$0.04)					
Corn Harvest FC\$: Fall 2022	\$5.52	\$5.48	\$5.43	\$5.88	\$5.60	\$5.48					
Corn Harvest FC\$ Basis	(\$0.21)	(\$0.25)	(\$0.30)	\$0.15	(\$0.13)	(\$0.25)					

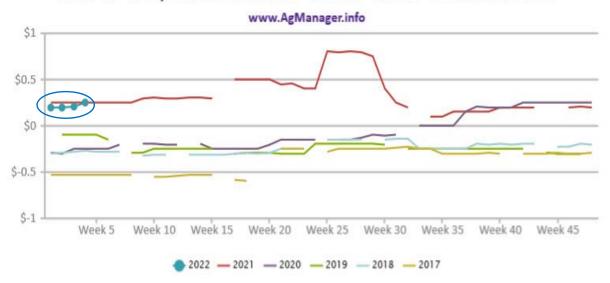
LEOTI, KS: Corn Basis - SEABOARD FOODS



SCOTT CITY, KS: Corn Basis - SCOTT COOP ASSOCIATION



SCOTT CITY, KS: Corn Basis - SCOTT COOP ASSOCIATION



SHARON SPRINGS, KS: Corn Basis - UNITED PLAINS AG



D.t.						
Date 1/31/2022	1					
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DEC 2022 Corn (2022 Harvest Contract)	\$5.7275					
1/31/2022	Cash Grain & H	larvest Cont	ract Prices @	Kansas Grain	Elevators	
	Representing the hi	ighest bids availd	able at each loca	ntion		
Cash Market Spot & FC Bids	Colby	Salina	Topeka	Garden City	Hutchinson	Columbus Area
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Corn Harvest FC\$: Fall ²⁰²²	\$5.52	\$5.48	\$5.43	\$5.88	\$5.60	\$5.48
Corn Harvest FC\$ Basis	(\$0.21)	(\$0.25)	(\$0.30)	\$0.15	(\$0.13)	(\$0.25)
Grain Sorghum Spot Cash\$	\$6.51	\$6.81	\$6.76	\$6.36	\$6.56	\$6.21
Sorghum Spot Cash Basis	\$0.26	\$0.56	\$0.51	\$0.11	\$0.31	(\$0.04)
Grain Sorghum Harvest FC\$: Fall 2022	\$5.67	\$5.53	\$5.13	\$5.38	\$5.38	\$5.33
Sorghum Harvest FC\$ Basis	(\$0.06)	(\$0.20)	(\$0.60)	(\$0.35)	(\$0.35)	(\$0.40)

LEOTI, KS: Grain Sorghum Basis - CHS UNITED PLAINS AG



COLBY, KS: Grain Sorghum Basis - CORNERSTONE AG



Soybean & HRW Wheat Futures Closes, Changes & Market Carry on Monday, January 31, 2022

	Soybear	Future:	S	Kansa	as HRW	Wheat	Futures
Month	Close	Change	Carry /mo	Month	Close	Change	Carry /mo
Mar ^L 22	\$14.48 1/4	ग्रे \$0.08 ¼		Mar ^L 22	\$7.93 1/2	₽ \$0.22 ¼	
May 22	\$14.54	企 \$0.07	\$0.02875	May 22	\$7.97	₽ \$0.21 ¾	\$0.01 ⁷⁵
July 22	\$14.53 1/2	爺 \$0.03	No Carry	July ^H 22	\$7.97	₽ \$0.20 ¼	No Carry
Aug 22	\$14.27 1/4	û \$0.03 ¼	No Carry	Sept 22	\$8.00 1/4	₽ \$0.20	\$0.01625
Sep 22	\$13.69 3/4	ग्रे \$0.03 ¾	No Carry	Dec 22	\$8.07 1/4	₽ \$0.19	\$0.02333
Nov ^H 22	\$13.38	ग्रे \$0.04	No Carry	Mar 23	\$8.10	₽ \$0.16 ¾	\$0.00917
Jan 23	\$13.37 3/4	ग्रे \$0.02 ¾	No Carry	May 23	\$8.00 3/4	₽ \$0.14 ¼	No Carry
Mar 23	\$13.21 1/2	₽ \$0.00 ¼	No Carry	July 23	\$7.68 1/4	₽ \$0.13	No Carry

CME
Soybean
NOV²⁰²²
Daily OHLC

11/16/2018 to 1/31/2022

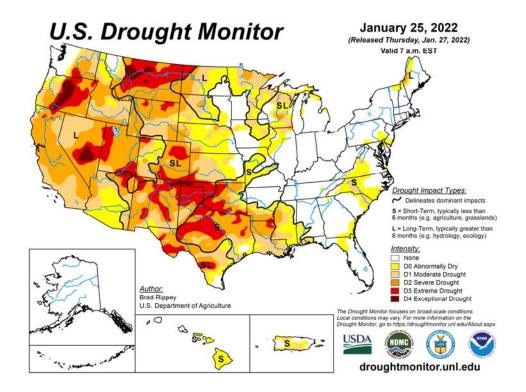


Kansas Cash & Futures	Prices					
Date						
1/31/2022						
Grain Futures Contracts	Closing \$					
MAR 2022 Soybeans (Lead Contract)	\$14.8875					
NOV 2022 Soybeans (2022 Harvest Contract)	\$13.6475					
1/31/2022	Cash Grain &	Harvest Cont	ract Prices @	Kansas Grair	Elevators	
	Representing the h	nighest bids availd	able at each loca	tion		
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
Soybean Spot Cash\$	\$14.14	\$14.54	\$14.63	\$14.14	\$14.69	\$14.48
Soybean Spot Cash Basis	(\$0.75)	(\$0.35)	(\$0.26)	(\$0.75)	(\$0.20)	(\$0.41)
Soybean Harvest FC\$: Fall 2022	\$12.75	\$13.05	\$13.05	\$12.70	\$12.86	\$12.95
Soybean Harvest FC\$ Basis	(\$0.90)	(\$0.60)	(\$0.60)	(\$0.95)	(\$0.79)	(\$0.70)

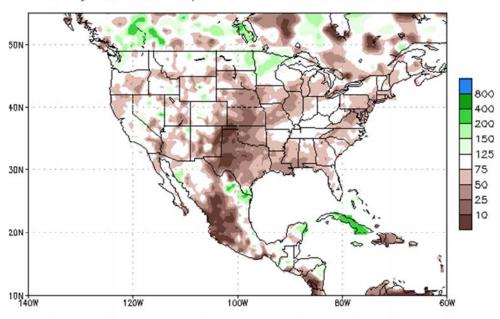
CME HRW
Wheat
JULY²⁰²²
Daily OHLC
7/15/2019 to
1/31/2022



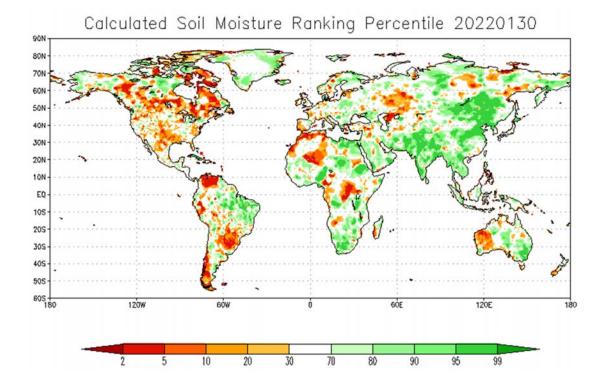
Kansas Cash & Futures Pr	ices					
Date						
1/31/2022						
Grain Futures Contracts	Closing \$					
MAR 2022 KC HRW Wheat (Lead Contract)	\$7.7750					
JULY 2022 KC HRW Wheat (Harvest Contract)	\$7.8050					
1/31/2022	Cash Grain & H	Harvest Cont	ract Prices @	Kansas Grain	Elevators	
1.44	Representing the h	ighest bids availd	ble at each loca	tion		
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
KC HRW Wheat Spot Cash\$	\$7.53	\$7.68	\$7.68	\$7.68	\$7.67	\$7.33
HRW Wheat Spot Cash Basis	(\$0.25)	(\$0.10)	(\$0.10)	(\$0.10)	(\$0.11)	(\$0.45)
KC HRW Wheat FC\$ - Harvest 2022	\$7.44	\$7.42	\$7.60	\$7.52	\$7.57	\$7.42
HRW Wheat Harvest FC\$ Basis	(\$0.36)	(\$0.39)	(\$0.21)	(\$0.29)	(\$0.23)	(\$0.39)



90-day Accumulated Prop % of Normal 01NOV2021-29JAN2022



Data Source: CPC Unified (gauge—based & 0.5x0.5 deg resolution) Precipitation Analysis Climatology (1991—2020)



2022 Corn Market "Drivers"

1) U.S. Economy

• A relatively strong U.S. GDP, but fears of inflation causing inflation

2019 Corn Market "Drivers"

1) U.S. Economy

• A relatively strong U.S. GDP, but fears of inflation causing recession

2) 2022 South America Crop Production Prospects

Crop)

Monthly Crop Calendar for Corn

	Pla	ant			Sil	k			На	arv	est													
	Oc	t	No	V	De	C.	Jar	1	Fe	b	Mar		Apr		May		Jun		Jul		Aug		Se	р
EU	н	Н	н	н									Р	Р	P	Р					н	Н	н	н
US	н	н	н											Р	P	Р			S	S	S			н
Mexico Summer	н	н	н	н	н	н	н	н	н	н	н			Р	P	Р	P	Р	Р	Р	Р	Р		
Ukraine	н	н	н											Р	P	Р			S	S				н
Russia	н	н	н	н											P	Р			S	S	S			
China	н	н			C	Ή	S	CHS	Hed	laina					Р	Р	Р	Р					н	н
Indonesia <i>Dry Region</i>	н	н						Jer	nna I	lging Roe					P	Р	P	Р	Р	Р	н	н	н	н
Philippines <i>Main</i>					Р	Р	Р	Р	Р	Р	н	н	н	н	P	Р	P	Р	Р	Р	н	н	н	н
Canada	н	н	н	н											Р	Р	Р	Р	S	S	S	S		н
India	н	н	н	н	н	н	н	н									P	Р	Р	Р	Р	Р	Р	Р
Brazil 1st crop	Р	Р	Р	Р	Р	Р	н	н	н	н	н	н	н	н	н	н						Р	Р	Р
Argentina	Р	Р	Р	Р		S	S	S			н	н	н	н	н	н							Р	Р
Philippines 2nd Crop	Р	Р	Р	Р	н	н	н	н	н	н													Р	Р
South Africa	Р	Р	Р	Р	Р	Р	Р	S	S					н	н	н	н	н	н	н				
Mexico Winter							Р	Р	Р	Р	Р	Р		н	н	н	н	н	н	н				
Brazil 2nd crop								Р	Р	Р	Р				н	н	н	н	н	н	н	н		
Indonesia Rainy Region	н	Н	н	н	н	н			Р	Р	Р	Р	Р	Р										
Nigeria											Р	Р	Р	Р	P	Р	Р	Р	н	Н	Н	Н	Н	Н

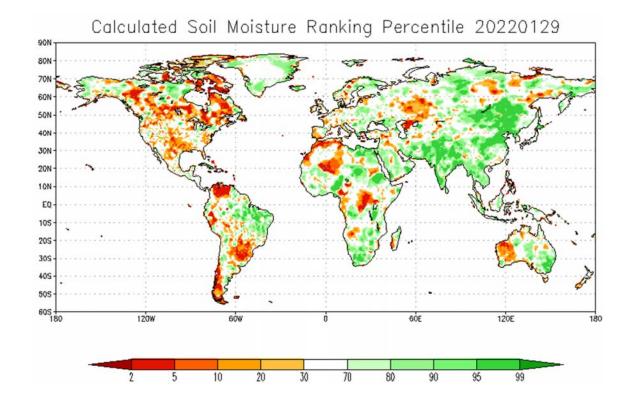
**Production estimates are in million metric tons and come from the FAS/USDA's most recent monthly World Agricultural Production report.

**Production estimates are for ALL CORN, Numbers will be listed next to the variety that comes first in the chart.

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KANSAS STATE



Monthly Crop Calendar for Soybeans

	Plan	Plant		Blo	Bloom			Harvest															
Ukraine	Jan	_	Feb		Лar		Apr		May		Jun		Jul		g	Se	р	Oct		Nov		Dec	
		\Box		П	┑	P	P	P	P	Г		г		н	н	Н	Н	г		Г		Г	Г
EU		П				P	P	P	P	Г		Г		Г		н	н	н	Н			Г	Г
Russia		П	П			P	P	P	P							н	н	н	н	н	Н		Г
US			П					P	P	P		В	В	В		Г	н	н	н	н	П		Г
China		T TC	, '			3 8		P	P	P	P	Г	Г	Г		Н	Н	н	н	Г		Г	Г
Canada		HS)	CHS	He	edg	ing	P	P	P	P	В	В	В	В	Г	н	н	н	н		Г	Г
Indonesia				Jer	nna	R	oe '	P	P	P	P	Р	P	н	н	Н	Н	н	н	Г		Г	Г
Mexico	H H	н	н		П			P	P	P	P	P	P	Р	P	P	P	н	н	н	Н	н	Н
India		П						Г		Р	P	Р	P	P	P	Г		Г		н	н	н	н
Paraguay	н	н	Н	н	н	н	Н	н	Н	н	Н			Г		Г		P	P	Р	Р	P	P
Brazil	н н	н	н	н	н	н	н	н	н	г		Г	П	Г		Г	Г	Г	P	P	P	P	P
Argentina	Р	В	В			н	н	н	н	н	Н			Г		Г		Г		P	P	P	
South Africa		н	н	н	н											Г		Г			P	P	

Sources: USDA, AMIS, & CHS, Inc.

KANSAS STATE

2022 Corn Market "Drivers"

1) U.S. Economy

• A relatively strong U.S. GDP, but fears of future inflation



2) 2022 South America Crop Production Prospects

3) 2022 U.S. Corn Acres

- **BUT** now So. America, U.S.-China issues may change that

- **4) "Strong" U.S. Corn Usage in "Current" MY 2021/22** (thru 8/31/2022)
 - High Ethanol Plant Profitability
 - o "Strong" corn ethanol use @ 5.325 bb (vs 5.028 bb & 4.857 bb last 2 years)
 - U.S. Exports @ 2.425 bb^{USDA} (vs 2.753 bb & 1.777 bb last 2 years)
 - Feed Use @ 5.650 bb (vs 5.602 bb & 5.900 bb last 2 years)



5) "Tighter" U.S. Corn Stocks & % Ending Stocks-to-Use

- 1.540 bb @ 10.40% Stocks/Use in "Current" MY 2021/22
- Impact of +/- 250 mb?
 - o **1.290 bb** vs **1.793 bb** U.S. corn ending stocks
 - \leq 9% S/U vs \geq 12% S/U \Rightarrow Significant +/- Corn price effects

6) U.S. Corn Price Outlook USDA

- \$4.53 /bu in "Old Crop" MY 2020/21
- \$5.45 /bu in "Current Crop" MY 2021/22 (+\$0.92 /bu vs current)

7) "Other" Market Factors

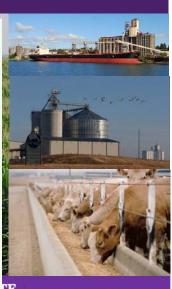
- "Moderate" U.S. Grain Sorghum Exports

 "paced" China demand
- Inflation in crop production costs, especially for fertilizer
 - Key Question: IF <u>less fertilizer applied to crop acres</u>, THEN <u>will it impact</u> final 2022 production?
- Other Broad Market Factors
 - o Potential for geopolitical problems in Black Sea & Asia-Pacific region
 - U.S. Elections & domestic economic uncertainty
 - U.S. Government or FED policies that could impact the U.S. economy

2022 Corn Markets - Early-Mid April 2022

Key Corn Market Factors to Watch in April 2022

- 1) If Brazil remains dry & impacts their 2nd corn crop
- 2) U.S. Soybean Export & Price prospects
 - ✓ <u>U.S. vs China</u> Trade Status
 - ✓ <u>U.S. Planted Acres</u> of Soybeans vs Corn?
- 3) Domestic Corn Usage Issues
 - ✓ Ethanol production & corn use stronger? (summer driving)
 - ✓ <u>Livestock profitability</u> & feed use
 - ✓ Exports are a "Wild Card" watch the South America crop

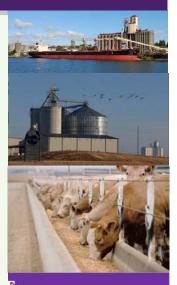


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2022 Corn Markets - Early-Mid May 2022

Key Corn Market Factors to Watch in May 2022

- 1) More accurate view of Brazil 2nd corn crop size
- 2) U.S. Corn Planting underway
 - ✓ Planting problems would support market ("early" for panic)
 - ✓ U.S. Soybean vs Corn Plantings still affecting market
- 3) Domestic Corn Usage Issues
 - ✓ Ethanol production & corn use ("Show me" the corn use!)
- 4) "Decision" time for New Crop Corn Market Direction

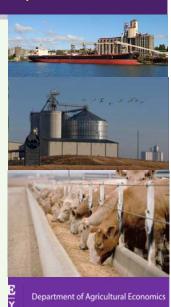


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2022 Corn Markets - Early-Mid July 2022

Key Corn Market Factors to Watch in July 2022

- 1) 2022 U.S. Crop Prospects are the Corn market focus
- 2) Brazil 2nd Crop Corn Prospects Known
 - ✓ Whether "large" or not will affect corn \$s
- 3) U.S. July Corn development is time for "Volatility"
 - ✓ "Shifting" *Up/Down* market narratives based on weather
 - ✓ Battle of the "Bulls vs Bears" pre-August USDA 2022 report
- 4) Futures may fall on 2022 prospects while Basis may narrow to finish up "Old Crop" MY 2021/22 usage

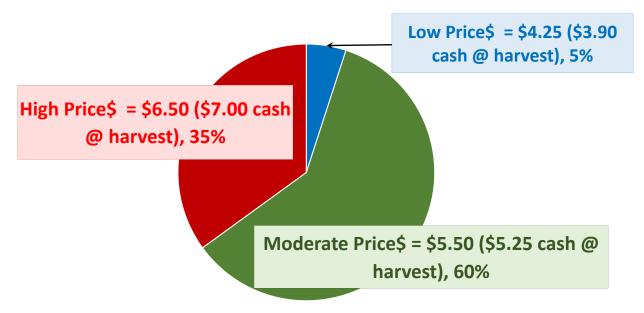


Likelihood of Corn Market Price Outcomes for "New Crop" MY 2022/23 KSU-O'Brien

Versus

\$5.45 /bu in "Old Crop" MY 2021/22 USDA

MY 2022/23 Corn Market Cash\$ Forecasts



2022 Corn Markets - Early November 2022

"Low Price" Market Scenario in 2022 (5% prob.)

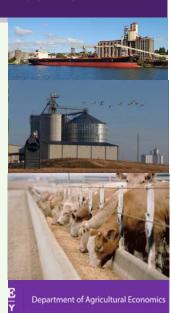
- 1) 2022 U.S. Corn production of $\approx 15^+$ billion bu.
- 2) "New Crop" 2022/23 Ending Stocks ≈ 2.25 bln. bu
 - ✓ % Ending Stocks-to-Use ≥ 14-15%
- 3) Overwhelming U.S. Corn Supplies a "Buyer's Mkt"
 - ✓ Low corn prices supporting U.S. corn use (a silver lining!)
 - ✓ Stronger U.S. corn exports would result (some now & later!)
- 4) MYA\$s fall to lows (\$4.25) BUT farmers then store en mass & force "some" returns to post-harvest storage



2022 Corn Markets - Early November 2022

"Moderate" Price Scenario in 2022 (60% prob.)

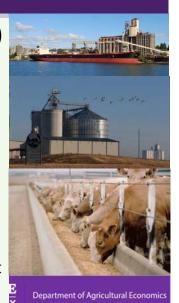
- 1) 2022 U.S. Corn production of $\approx 14.25\text{-}14.5 \text{ bln. bu.}$
- 2) "New Crop" 2022/23 End Stocks ≈ 1.500 bln. bu
 - ✓ % Ending Stocks-to-Use ≈ 9%-11%
- 3) "OK-Not Tight" U.S. Corn Supplies a "Neutral Mkt"
 - ✓ "Moderate/Lower" corn \$ "Good-Healthy" corn use
 - ✓ U.S. corn exports varying on 2022 South America crop size
- 4) MYA\$ rise to \$5.50 in "New Crop" MY 2022/23 Moderately tight & uncertain S/D in the Corn market



2022 Corn Markets - Early November 2022

"High" Market Price Scenario in 2022 (35% prob.)

- 1) 2022 U.S. Corn production of < 14.000 bln. bu.
- 2) "New Crop" 2022/23 End Stocks < 1.250 bln. bu
 - ✓ % Ending Stocks-to-Use ≈ 7%-8%
- 3) "Tight" U.S. Corn Supplies a "Seller's Market"
 - √ "High" corn prices\$ "Rationing" corn usage
 - ✓ IF small 2022 South America crop, then drives \$'s higher
- 4) MYA\$s rise to \$6.50 (\$7 @ harvest) Reflecting impact of a short, tight, "at risk" corn S/D in U.S.







Questions?

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Blog: www.ksugrains.wordpress.com

KSUGrains on Twitter

www.AgManager.info



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