### 2022 Grain Market Outlook

K-State CropTalk Webinar Series

Monday, March 14, 2022

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<u>EXTENSION</u> AGRICULTURAL ECONOMIST



**Department of Agricultural Economics** 



### I. Grain Futures Closes, Changes & Market Carry on Friday, March 11, 2022

	Corn Futures			Soybean Futures			Kans	as HRW	Wheat	Futures	
Month	Close	Change	Carry /mo	Month	Close	Change	Carry /mo	Month	Close	Change	Carry /mo
Mar <sup>D</sup> 22	\$7.64 1/2	û \$0.06¾		Mar <sup>D</sup> 22	\$16.90 3/4	₿ \$0.09 ¼		Mar <sup>D</sup> 22	\$10.75 3/4	û \$0.23 ½	
May <sup>L</sup> 22	\$7.62 1/2	û \$0.06¾	-\$0.01	May <sup>L</sup> 22	\$16.76	₿ \$0.10 ¼	-\$0.07375	May <sup>L</sup> 22	\$10.89 1/4	tr \$0.23 ⅓	\$0.06 3/4
July 22	\$7.28 3/4	<b>압 \$0.02</b> ¾	-\$0.16 <sup>875</sup>	July 22	\$16.51 1/4	₿ \$0.08 ¼	-\$0.12375	July <sup>H</sup> 22	\$10.81	चे \$0.23 ¾	-\$0.04125
Sept 22	\$6.77	₿ \$0.00 ½	-\$0.2575	Aug 22	\$16.10 1/4	₿ \$0.02 ½	-\$0.41	Sept 22	\$10.69	tr \$0.23 ⅓	-\$0.06
Dec <sup>H</sup> 22	\$6.55 1/4	û \$0.03 ½	-\$0.0725	Sep 22	\$15.34	₿ \$0.02 ½	-\$0.76 <sup>25</sup>	Dec 22	\$10.61 1/4	₩ \$0.23 ½	-\$0.02583
Mar 23	\$6.52 3/4	û \$0.03¾	-\$0.08 <sup>333</sup>	Nov <sup>H</sup> 22	\$14.91	₿ \$0.01 ¼	-\$0.2150	Mar 23	\$10.37	₩ \$0.23	-\$0.08167
May 23	\$6.50	û \$0.03 ⅓	-\$0.0125	Jan 23	\$14.75	₿ \$0.01	-\$0.08	May 23	\$9.67	û \$0.25 ⅓	-\$0.25
July 23	\$6.46 1/4	चे \$0.02 ¾	-\$0.01875	Mar 23	\$14.31 1/4	ग्रे \$0.02 ¾	-\$0.21875	July 23	\$8.17 1/4	û \$0.23¾	<b>-\$0</b> .74 <sup>875</sup>

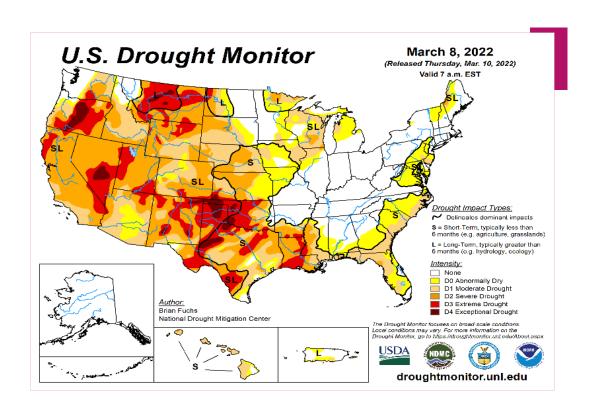
## Our Focus.....

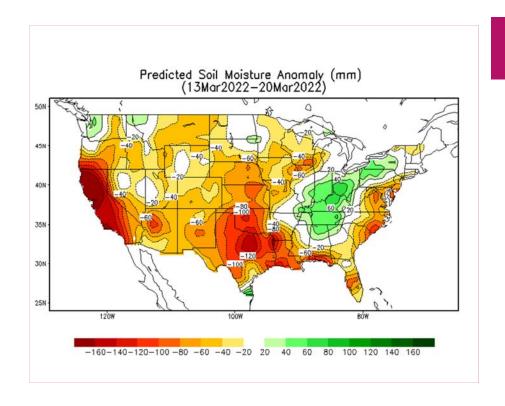
### 1) Key Grain Market Factors in 2022-2023

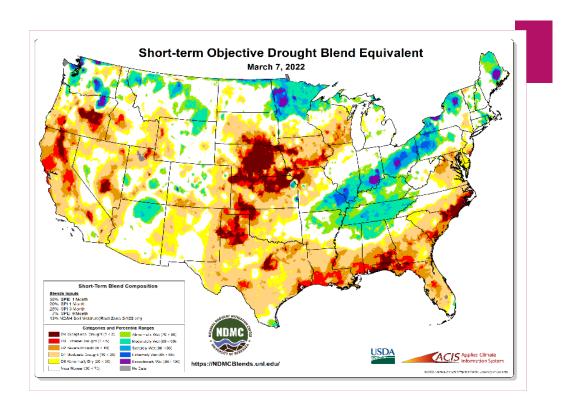
• Supply-Demand Issues U.S.-World ⇒ "tight" Stocks/Use - "high" Price\$

### 2) Grain Market Analysis & Outlook

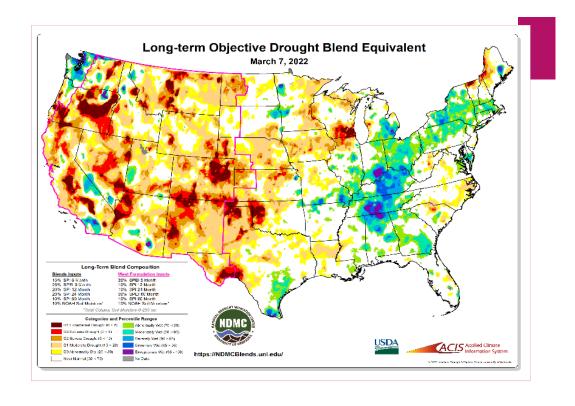
- Corn
  - Sorghum
    - Wheat
      - Soybeans

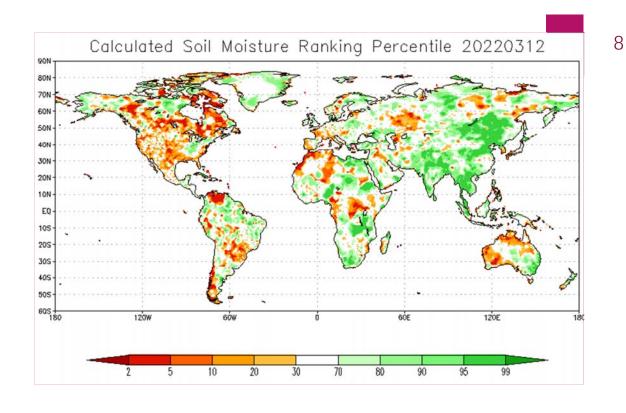












### ☐ U.S. Crop Plantings for 2022

• Wheat <sup>2022-23</sup> 48.0 mln ac ⊃ Up 2.8% vs 46.7 ma<sup>2021</sup>

• Soybeans <sup>2022</sup> 88.0 mln ac → Up 0.9% vs 87.2 ma<sup>2021</sup>

• Corn 2022 92.0 mln ac Down 1.5% vs 93.4 ma<sup>2021</sup>

• Sorghum <sup>2022</sup> 6.5 mln ac ⊃ Down 11.0% vs 7.3 ma<sup>2021</sup>

• Cotton <sup>2022</sup> Up+? Strong MY 2021/22 Markets, moisture?

Q?: Has recent price strength changed farmer's planting intentions?



# U.S. Corn S/D & Stocks USDA Outlook Conf, February 2022

- □ <u>Corn</u>: "*OK*" Stocks & % S/U @ \$5.00 /bu<sup>U.S. Farm\$</sup> ?????
  - o Production <sup>2022/23</sup> ⇒ 15.240 bln bu (*vs 15.115 bb last year*)
  - o Ending Stocks <sup>2022/23</sup> ⇒ 1.865 bln bu (vs 1.440 bb last year)
  - o % Stocks/Use 2022/23 ⇒ 12.6% S/U (û vs 9.6% S/U last year)
  - o U.S. Farm \$ <sup>2022/23</sup> ⇒ \$5.00 /bu (\$4.53 & \$5.65 last 2 years)

KANSAS STATE Comment of Agricultural Economics

# Kansas Corn Seasonal Prices: MY 1999/00 – MY 2019/20 plus "Current

Crop" MY 2021/22 & "New Crop" MY 2022/23 as of March 11, 2022



### Daily CME MAY 2022 Corn Futures





Kansas Cash & Futures	Prices					
Date						
3/11/2022						
Grain Futures Contracts	Closing \$					
MAY 2022 Corn (Lead contract)	\$7.6250					
DEC 2022 Corn (2022 Harvest Contract)	\$6.5525					
3/11/2022	Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators					
	Representing the hi	ghest bids availa	ble at each location	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\$	\$7.63	\$7.09	\$7.63	\$8.08	\$7.32	\$7.63
Corn Spot Cash Basis	\$0.00	(\$0.54)	\$0.00	\$0.45	(\$0.31)	\$0.00
Corn Harvest FC\$: Fall 2022	\$6.35	\$6.35	\$6.25	\$6.70	\$6.40	\$6.30
Corn Harvest FC\$ Basis	(\$0.20)	(\$0.20)	(\$0.30)	\$0.15	(\$0.15)	(\$0.25)

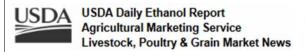
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### HAYS , KS: Corn Basis - MIDLAND MARKETING



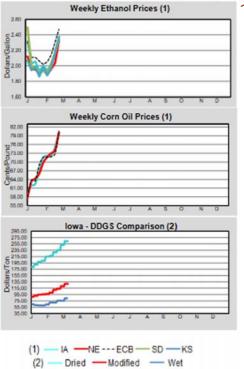
### SALINA, KS: Corn Basis - CARGILL





Fri. Mar 11, 2022

	Cash E	Bida	Chg	Bas	ele		Avg:
lowa-Eastern:	7.0600 -	7.3100	*	-20N	to	5N	-17.42
lowa-Western:	7.0575 -	7.4000	4	-50K	to	14N	-11.64
Illinois:	7.3000 -	7.5575	4	4N	to	OptK	1.83
Indiana:	6.9600 -	7.3600	4	-30N	to	10N	-17.50
Ohio:	7.0100 -	7.2600	4	-25N	to	OptN	-16.67
Michigan:	6.9600 -	7.0575	4	-30N	to	-50K	-38.67
Kansas:	7.4075 -	7.5575	4	-15K	to	OptK	-8.67
Minnesota:	6.9600 -	7.2100	4	-30N	to	-5N	-21.83
Nebraska:	7.0075 -	7.3100	4	-55K	to	5N	-13.67
Wisconsin:	6.8400 -	7.0600	4	-42N	to	-20N	-42.80
South Dakota:	6.9375 -	7.2700	4	-82K	to	1N	-12.67
Missouri:	7.1575 -	7.4600	4	-40K	to	20N	-2.50

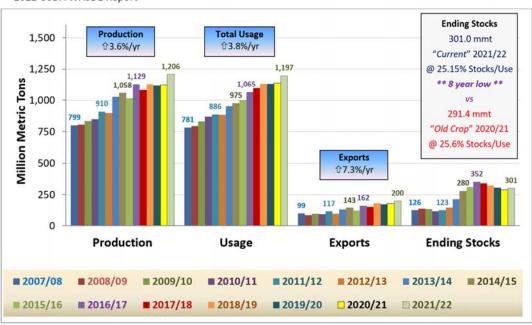


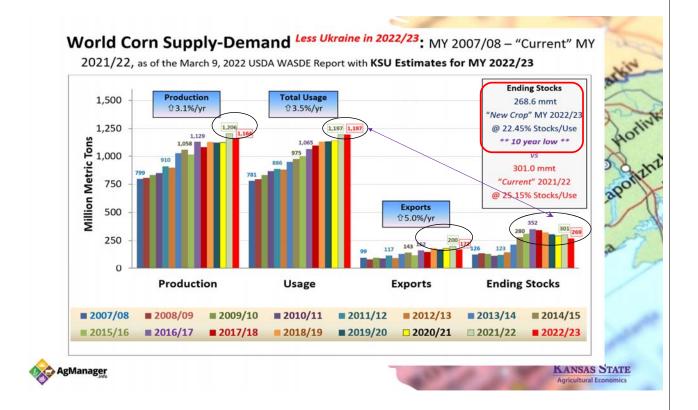
# <u>U.S. Corn Exports</u>: "Bullish" short-term corn shipments with "Bullish" long-term "New Crop" MY 2021/22 total sales

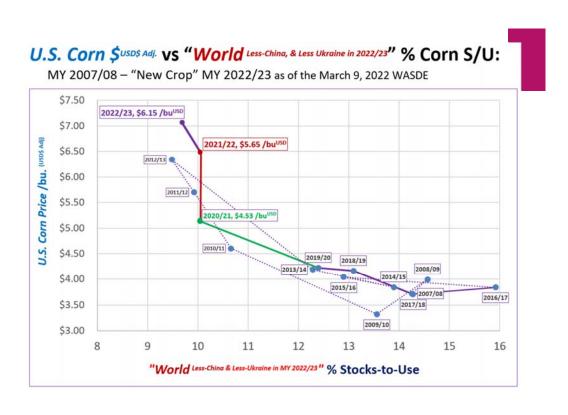
- Weekly Export Shipments week of 3/3/2022 = 69.4 mb (Bullish)
   vs 54.5 mb/wk needed to meet USDA's March 9<sup>th</sup> projn of 2.500 bb exports
- Total shipments through 3/3/2022 for "New Crop" MY 2021/22 = 1.083,9 mb
   i.e., 43.4% of 2.500 bb USDA projn with 50.0% of MY complete (26/52 weeks)
- Total sales through 3/3/2022 for "New Crop" MY 2021/22 = 1.976,3 bb (Bullish) i.e., 79.05% of 2.500 bb USDA projn w. 50.0% of MY complete (26/52 weeks)

### World Corn Supply-Demand: MY 2007/08 - "Current" MY 2021/22, as of the March 9,

2022 USDA WASDE Report

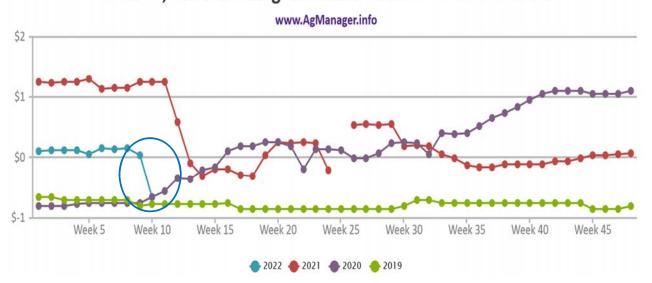






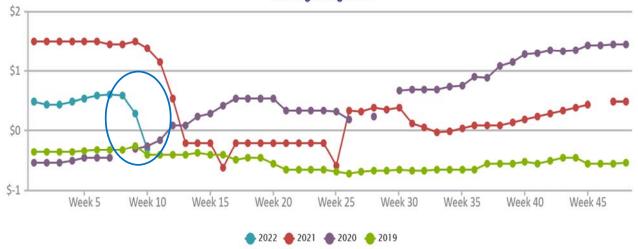
Date						
3/11/2022						
Grain Futures Contracts	Closing \$					
MAY 2022 Corn (Lead contract)	\$7.6250					
DEC 2022 Corn (2022 Harvest Contract)	\$6.5525					
3/11/2022	Cash Grain & H	larvest Cont	ract Prices @	Kansas Grai	n Elevators	
	Representing the hi	ghest bids availa	ble at each location	on		
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\$	\$7.63	\$7.09	\$7.63	\$8.08	\$7.32	\$7.63
Corn Spot Cash Basis	\$0.00	(\$0.54)	\$0.00	\$0.45	(\$0.31)	\$0.00
Corn Harvest FC\$: Fall 2022	\$6.35	\$6.35	\$6.25	\$6.70	\$6.40	\$6.30
Corn Harvest FC\$ Basis	(\$0.20)	(\$0.20)	(\$0.30)	\$0.15	(\$0.15)	(\$0.25)
Grain Sorghum Spot Cash\$	\$7.40	\$7.23	\$7.23	\$7.53	\$7.29	\$7.57
Sorghum Spot Cash Basis	(\$0.23)	(\$0.40)	(\$0.40)	(\$0.10)	(\$0.34)	(\$0.05)
Grain Sorghum Harvest FC\$: Fall <sup>2022</sup>	\$6.60	\$6.35	\$6.35	\$6.20	\$6.35	\$6.15
Sorghum Harvest FC\$ Basis	\$0.05	(\$0.20)	(\$0.20)	(\$0.35)	(\$0.20)	(\$0.40)

### HAYS , KS: Grain Sorghum Basis - MIDLAND MARKETING



### SALINA, KS: Grain Sorghum Basis - CARGILL





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# U.S. Grain Sorghum Exports: "Positive" short-term shipments & "Bullish" sales in "New Crop" MY 2021/22

- Weekly Export Shipments week of 3/3/2022 for MY 2021/22 = 8.113 mb (Positive)
   vs 7.40 mb/wk needed to meet USDA's March 9<sup>th</sup> projn of 310 mb exports
- Total shipments through 3/3/2022 for "New Crop" MY 2021/22 = 117.6 mb
   i.e., 37.9% of 310 mb USDA projn with 50.0% of MY complete (26/52 weeks)
- Total sales through 3/3/2022 for "New Crop" MY 2021/22 = 262.8 mb (Bullish)
   i.e., 87.8% of 310 mb USDA projn w. 50.0% of MY complete (26/52 weeks)



# U.S. Wheat S/D & Stocks USDA Outlook Conf, Feb. 2022 28

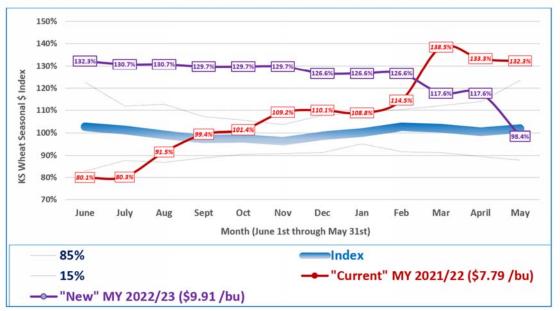
Department of Agricultural Economics

- □ Wheat: "OK" Stocks & % S/U @ \$6.80 /bu<sup>U.S. Farm\$</sup> ???????
  - o Production <sup>2022/23</sup> ⇒ 1.940 bln bu (vs 1.646 bb last year)
  - o Ending Stocks <sup>2022/23</sup> ⇒ 736 mln bu (vs 653 mb last year)
  - o **% Stocks/Use** 2022/23 ⇒ 37.2% S/U (û vs 33.8% S/U last year)
  - o U.S. Farm \$ <sup>2022/23</sup> ⇒ \$6.80 /bu (\$5.05 & \$7.50 last 2 years)

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#### Seasonal Prices for Kansas Hard Red Winter Wheat:

MY 1999/00 - 2019/20 + "Current" MY 2021/22 & "New" MY 2022/23 Ests. thru 3/11/2022





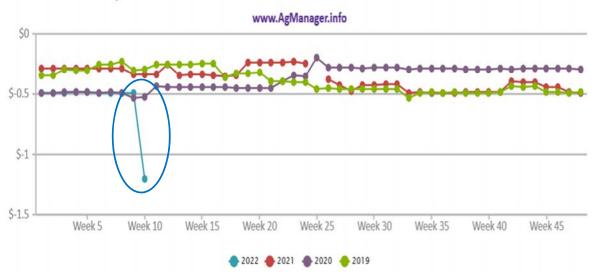






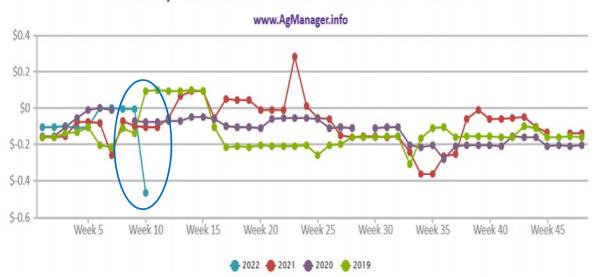
D. A.						
Date 3/11/2022						
Grain Futures Contracts	Closing \$					
MAY 2022 KC HRW Wheat (Lead Contract)	\$10.8925					
JULY 2022 KC HRW Wheat (Harvest Contract)	\$10.8100					
3/11/2022	Cash Grain & I					
	Representing the hi	ghest bids availa	ble at each location	on		
Cash Market Spot & FC Bids	Colby	Salina	Topeka	Garden City	Hutchinson	Columbus Area
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
KC HRW Wheat Spot Cash\$	\$9.81	\$10.56	\$10.56	\$10.04	\$10.56	\$9.99
HRW Wheat Spot Cash Basis	(\$1.08)	(\$0.33)	(\$0.33)	(\$0.85)	(\$0.33)	(\$0.90)
KC HRW Wheat FC\$ - Harvest 2022	\$9.81	\$10.44	\$10.36	\$10.11	\$10.56	\$9.46
HRW Wheat Harvest FC\$ Basis	(\$1.00)	(\$0.37)	(\$0.45)	(\$0.70)	(\$0.25)	(\$1.35)

### HAYS , KS: Hard Red Winter Wheat Basis - MIDLAND MARKETING



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### SALINA, KS: Hard Red Winter Wheat Basis - CARGILL



## U.S. All Wheat Exports: "Negative" short-term Export Shipments with "Neutral" longer term export prospects for "Current" MY 2021/22

- Weekly Export Shipments wk of 3/3/2022 for "Current" MY 2021/22 = 14.1 mb (Negative)
   vs 22.18 mb /wk needed to meet USDA's March 9th projn of 800 mb exports
- Total shipments through 3/3/2022 for "Current" MY 2021/22 = 533.9 mb
   i.e., 66.7% of 800 mb USDA projn with 76.9% of MY complete (40/52 weeks)
- Total shipments + new sales thru 3/3/2022 for "Current" MY 2021/22 = 683.0 mb
   i.e., 85.4% of 800 mb USDA #'s with 76.9% of MY complete (40/52 weeks) (Neutral)
- Total new sales thru 3/3/2022 for "New Crop" MY 2022/23 = 25.0 mb (0/52 weeks)

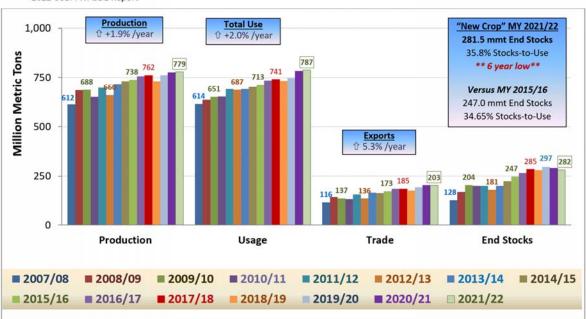
#### U.S. Hard Red Winter (HRW) Wheat Exports: "Negative" short-term Shipments with

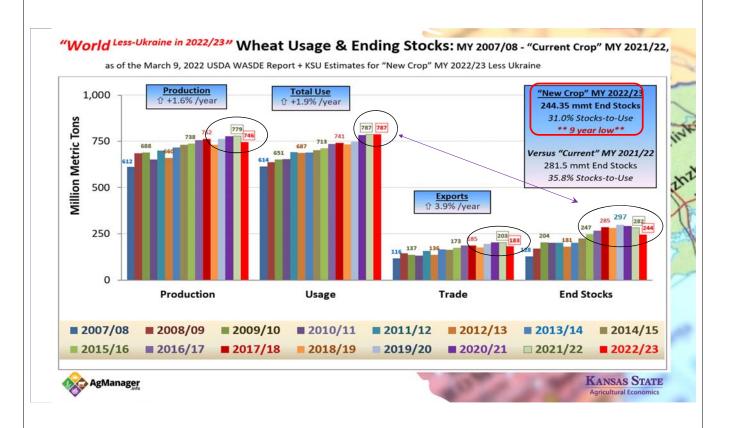
"Neutral" long-term prospects for "Current" MY 2021/22 total sales

- Weekly Export Shipments wk of 3/3/2022 for "New Crop" MY 2021/22 = 6.70 mb (Negative)
   vs 9.35 mb /wk needed to meet USDA's February 9th projn of 320 mb HRW wheat exports
- Total shipments through 3/3/2022 for "Current" MY 2021/22 = 207.8 mb
   i.e., 64.9% of 320 mb USDA HRW-W exports with 76.9% of MY complete (40/52 weeks)
- Total shipments + new sales thru 3/3/2022 for "Current" MY 2021/22 = 273.0 mb i.e., 85.3% of 320 mb USDA HRW-W exports w. 76.9% of MY complete (40/52 weeks) (Neutral)

### World Wheat Usage & Ending Stocks: MY 2007/08 - "New Crop" MY 2021/22, as of the March 9,

2022 USDA WASDE Report















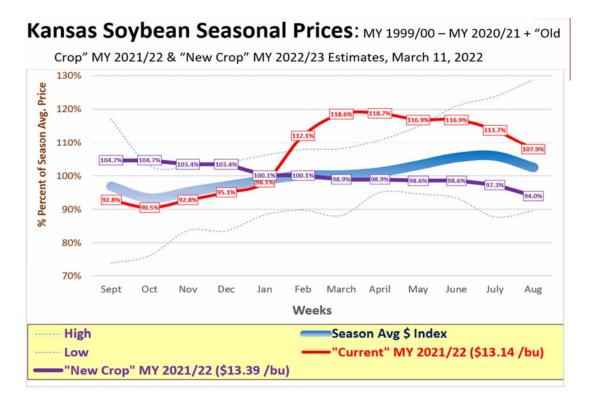
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# U.S. Soybean S/D & Stocks USDA Outlook Conf, Feb. 2022

- □ Soybean: "Tight" Stocks & % S/U @ \$12.75 /bu<sup>U.S. Farm\$</sup> ????
  - o Production <sup>2022/23</sup> ⇒
    - **4.490 bln bu** (*vs 4.435 bb last year*)
  - o Ending Stocks <sup>2022/23</sup> ⇒
- **265** mln bu (*vs 285 mb last year*)
- o % Stocks/Use 2022/23 ⇒
- **5.86%** S/U (企 vs **6.45%** S/U last year)
- o U.S. Farm \$ <sup>2022/23</sup> ⇒
- **\$12.75** /bu (*\$10.80* & *\$13.25* last 2 yrs)





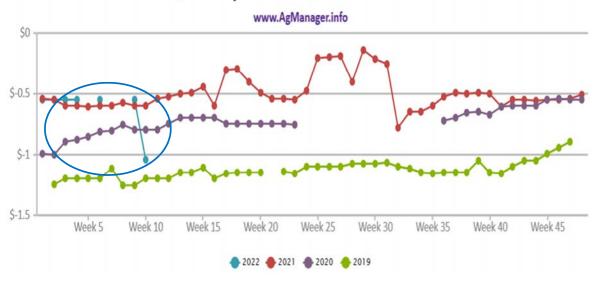




Kansas Cash & Futures	Prices					
Date						
3/11/2022						
<b>Grain Futures Contracts</b>	Closing \$					
MAY 2022 Soybeans (Lead Contract)	\$16.7600					
NOV 2022 Soybeans (2022 Harvest Contract)	\$14.9100					
3/11/2022	Cash Grain & I					
	Representing the hi	ghest bids availa	ble at each location	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
		And the second second second second	40.000	\$15.81	\$16.36	\$16.26
Soybean Spot Cash\$	\$15.51	\$16.21	\$16.46	\$15.61	720.00	
Soybean Spot Cash\$  Soybean Spot Cash Basis	\$15.51 (\$1.25)	\$16.21 (\$0.55)	\$16.46 (\$0.30)	(\$0.95)	(\$0.40)	(\$0.50)
Soybean Spot Cash\$  Soybean Spot Cash Basis  Soybean Harvest FC\$: Fall 2022		Note the Party	104			(\$0.50) \$14.21



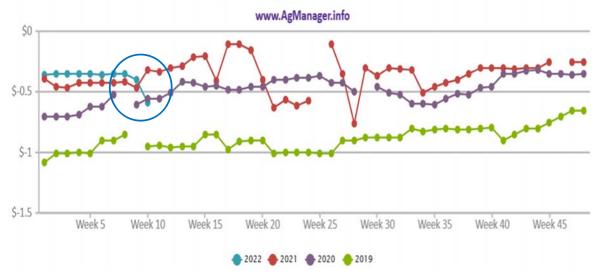
### DOWNS, KS: Soybeans Basis - SCOULAR GRAIN CO





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### SALINA, KS: Soybeans Basis - CARGILL



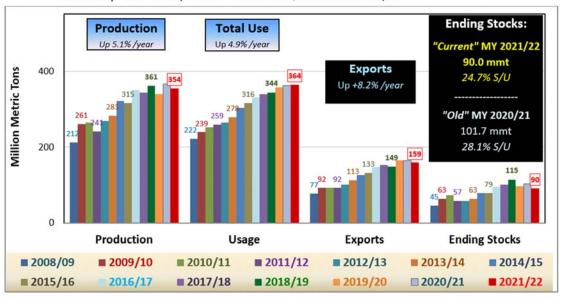


- U.S. Soybean Exports: "Bullish short-term export shipments and "Bullish" for "Current" MY 2021/22 sales
  - Weekly Export Shipments week of 3/3/2022 for "Current" MY 2021/22 = 30.7 mb (Bullish)
     vs 21.58 mb /wk needed to meet USDA's March 9th projn of 2.090 bb exports
  - Total shipments through 3/3/2022 for "Current" MY 2021/22 = 1.528,9 bb
     i.e., 73.15% of 2.090 bb USDA projn with 50.0% of MY complete (26/52 weeks)
  - Total sales through 3/3/2022 for "Current" MY 2021/22 = 1.924,3 mb (Bullish)
     i.e., 92.1% of 2.090 bb USDA<sup>KSU</sup> projn w. 50.0% of MY complete (26/52 weeks)

- U.S. Soybean Meal Exports: "Bullish" short-term export shipments in "New Crop" 48 MY 2021/22, with "Positive" "Current" MY 2021/22 sales
  - Export Shipments for week of 3/3/2022 for "Current" MY 2021/22 = 253,100 mt (Bullish)
     vs 253,963 mt/wk needed to meet USDA's March 9th projn of 13,060 mmt exports
  - Total shipments through 3/3/2022 for "Current" MY 2021/22 = 5.441,100 mmt
     i.e., 41.7% of 13.060 mmt USDA projn with 42.3% of MY complete (22/52 weeks)
  - Total shipments & new sales (3/3/2022) for "Current" MY 2021/22 = 8.328,3 mmt
     i.e., 63.8% of 13.060 mmt USDA projn with 42.3% of MY complete (22/52 wks) (Positive)
- U.S. Soybean Oil Exports: "Bullish" short-term export shipments in "current" MY 2020/21 and "Bullish" intermediate-term "current" MY total sales
  - Export Shipments for week of 3/3/2022 for "Current" MY 2021/22 = 16,500 mt (Bullish)
     vs 8,027 mt/wk needed to meet USDA's March 9th projn of 650,000 mt exports
  - Total shipments through 3/3/2022 for "Current" MY 2021/22 = 409,200 mt
     i.e., 62.95% of 650,000 mt USDA projn with 42.3% of MY complete (22/52 weeks)
  - Total shipments & new sales (3/3/2022) for "Current" MY 2021/22 = 581,700 mt i.e., 89.5% of 650,000 mt USDA projn with 42.3% of MY complete (22/52 wks) (Bullish)

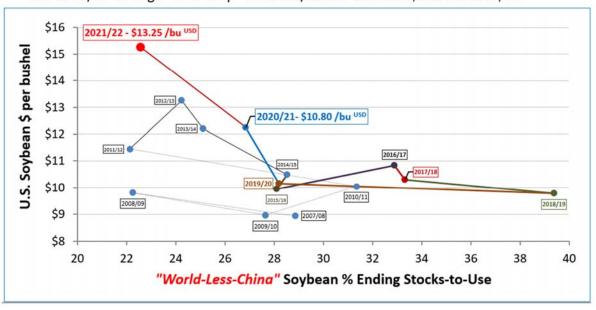
### World Soybean Usage & Ending Stocks: MY 2008/09 through

"New Crop" MY 2021/22 as of the March 9, 2022 WASDE Report



### U.S. Soybean \$USD\$ Adj vs "World Less-China" % Stocks-to-Use:

MY 2007/08 through "New Crop" MY 2021/22 as of the March 9, 2022 WASDE Report



# Recent Cash Grain Bid / Basis Issues March 2022

- Spot HRW basis bid offers in KS, OK, TX southern U.S. Plains were affected by sharply higher wheat futures prices – occurring on Tuesday, 3/8/2022
  - Grain dealers <u>rolled their basis bids</u> to sharply discounted deferred K.C. wheat contracts relative to the higher volume CME KS HRW-W MAY 2022 Contract.
  - Selected grain dealers were posting <u>no bids</u> for HRW-W citing current high wheat prices as the reason.
  - Some U.S. Southern Plains wheat millers temporarily stopped accepting wheat deliveries to draw down existing wheat inventories



KANSAS STATE

#### HRW Wheat Futures Closes, Changes & Market Carry

On Monday, March 7th & Thursday, March 10th, 2022

Monday, March 7, 2022

Kans	Kansas HRW Wheat Futures							
Month	Close	Change	Carry /mo					
Mar <sup>D</sup> 22	\$12.37 3/4	企 \$0.37						
May <sup>L</sup> 22	\$12.51 1/2	企 \$0.37	+ \$0.06875					
July <sup>H</sup> 22	\$12.33 3/4	企 \$0.59 1/4	- \$0.08875					
Sept 22	\$11.92 1/4	û \$0.75 ¾	- \$0.2075					
Dec 22	\$11.42 1/4	爺 \$0.85	- \$0.16667					
Mar 23	\$10.96 1/4	û \$0.83 ¼	- \$0.15333					
May 23	\$10.17	û \$0.59 ½	- \$0.39625					
July 23	\$8.56 3/4	û \$0.41 ½	- \$0.80125					

Thursday, March 10, 2022

Kansa	as HRW	Wheat	Futures
Month	Close	Change	Carry/mo
Mar <sup>D</sup> 22	\$10.52 1/4	₽ \$0.54	
May <sup>L</sup> 22	\$10.95 1/2	<b>企 \$0.29</b> ¾	+ \$0.21625
July <sup>H</sup> 22	\$10.85	<b>企 \$0.30 ¾</b>	- \$0.0525
Sept 22	\$10.73	<b>企 \$0.27</b> ½	- \$0.06
Dec 22	\$10.59 1/2	<b>企 \$0.21 ¾</b>	- \$0.0450
Mar 23	\$10.14	<b>爺 \$0.01 ½</b>	- \$0.15167
May 23	\$9.41 1/2	<b>企 \$0.13</b> ¾	- \$0.3625
July 23	\$8.00	û \$0.06½	- \$0.7075

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### Key Factors in the Cash Grain Bid / Basis Issue

- Inverses in the Wheat Futures Market CME SRW, HRW
  - Record high lead contract prices for Lead Futures with high volatility
- "Down Stream" Supply Chain Disruptions Impacting Grain Elevators
  - o Lack of bids from wheat millers, exporters, etc. to "move" grain on to
  - O Questions regarding availability of rail transportation to move grain
- A necessary "turnaround" in the future
  - o Eventually "down stream" buyers/users will again need wheat supplies
  - o "Demand-pull" will force proactive bidding & procurement for wheat in these industries when current inventories run short & buyers "come calling"

