

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
- May 12th USDA WASDE with 1st "New Crop" MY 2021/22 monthly forecast
- June 10th USDA WASDE
- June 30th USDA Acreage & Grain Stocks

I. Grain Futures Closes, Changes & Market Carry on Monday, January 24, 2022

	Corn	Futures			Soybear	Future	s	Kansas HRW Wheat Futures							
Month	Close	Change	Carry /mo	Month	Close	Change	Carry /mo	Month	Close	Change	Carry /mo				
Mar ^L 22	\$6.20	₽ \$0.01		Mar ^L 22	\$14.04 1/2	企 \$0.01 ½		Mar ^L 22	\$8.25	☆ \$0.07					
May 22	\$6.16 1/4	₽ \$0.01 1/4	No Carry	May 22	\$14.12 3/4	企 \$0.01 ¾	\$0.02 ⁷⁵	May 22	\$8.26 1/2	企 \$0.06	\$0.00 ⁷⁵				
July 22	\$6.09 1/4	₽ \$0.01 ½	No Carry	July 22	\$14.15 1/2	ŵ \$0.01 ½	\$0.01375	July ^H 22	\$8.26 1/4	û \$0.06 ⅓	No Carry				
Sept 22	\$5.78	₽ \$0.02 1/4	No Carry	Aug 22	\$13.92 ½	ŵ \$0.03 ¾	No Carry	Sept 22	\$8.29 1/4	û \$0.06 ⅓	\$0.0150				
Dec ^H 22	\$5.65 1/2	₽ \$0.02	No Carry	Sep 22	\$13.36	ŵ \$0.02 ¾	No Carry	Dec 22	\$8.29 3/4	û \$0.20 ½	\$0.00167				
Mar 23	\$5.73 1/4	₽ \$0.01 ³ / ₄	\$0.03583	Nov ^H 22	\$13.08 1/2	ŵ \$0.01	No Carry	Mar 23	\$8.30 1/2	ŵ \$0.18 ³ ⁄₄	\$0.00167				
May 23	\$5.75 1/2	₽ \$0.02 ¾	\$0.01125	Jan 23	\$13.09 1/2	û \$0.01 ½	\$0.0050	May 23	\$8.19 3/4	û \$0.17 ½	No Carry				
July 23	\$5.75 1/4	₽ \$0.02 ¹ / ₄	No Carry	Mar 23	\$13.02	û \$0.03 ¾	No Carry	July 23	\$7.90	û \$0.05 ½	No Carry				

2022 Soybean / Corn Price Ratios:

a) CME MAR²⁰²² Soybeans (\$14.04 ½) / CME MAR²⁰²² Corn (\$6.20)

= 2.27

b) CME NOV²⁰²² Soybeans (\$13.08 ½) / CME DEC²⁰²² Corn (\$5.65 ½)

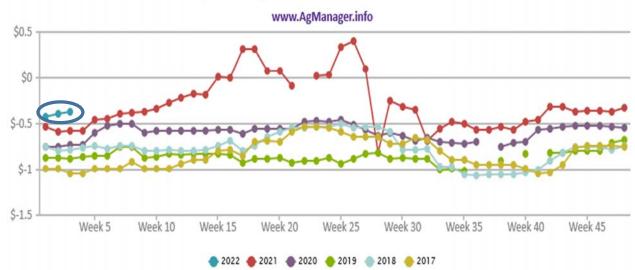
= 2.31

Kansas Cash & Futures F	Prices					
Date						
1/24/2022						
Grain Futures Contracts	Closing \$					
MAR 2022 Soybeans (Lead Contract)	\$14.0475					
NOV 2022 Soybeans (2022 Harvest Contract)	\$13.0950					
1/24/2022	Cash Grain &	Harvest Co	ntract Prices	@ Kansas Gı	ain Elevator	s
	Representing the	highest bids avo	ilable at each lo	cation		
Cash Market Spot & FC Bids	Colby	Salina	Topeka	Garden City	Hutchinson	Columbus Are
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Soybean Spot Cash\$	\$13.29	\$13.68	\$13.78	\$13.28	\$13.87	\$13.5
Soybean Spot Cash Basis	(\$0.76)	(\$0.37)	(\$0.27)	(\$0.77)	(\$0.18)	(\$0.54
Soybean Harvest FC\$: Fall ²⁰²²	\$12.20	\$12.44	\$12.49	\$12.14	\$12.31	\$12.3
Soybean Harvest FC\$ Basis	(\$0.90)	(\$0.66)	(\$0.61)	(\$0.96)	(\$0.79)	(\$0.73

BELOIT, KS: Soybeans Basis - AGMARK LLC

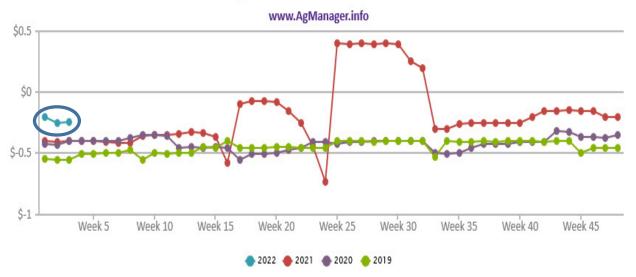


HOLTON, KS: Soybeans Basis - JACKSON FARMERS

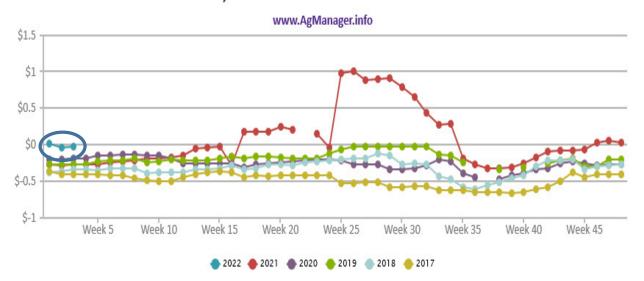


Kansas Cash & Futures Pri	COS					
	ces					
Date 1/24/2022						
Grain Futures Contracts	Closing \$					
MAR 2022 Corn (Lead contract)	\$6.1975					
DEC 2022 Corn (2022 Harvest Contract)	\$5.6550					
1/24/2022	Cash Grain &	Harvest Co	ntract Prices	@ Kansas Gı	rain Elevator	S
	Representing the	highest bids avo				
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\$	\$6.40	\$6.34	\$6.29	\$6.54	\$6.54	\$6.09
Com Spot Cash Basis	\$0.20	\$0.14	\$0.09	\$0.34	\$0.34	(\$0.11)
Corn Harvest FC\$: Fall ²⁰²²	\$5.46	\$5.41	\$5.36	\$5.81	\$5.53	\$5.41
Com Harvest FC\$ Basis	(\$0.20)	(\$0.25)	(\$0.30)	\$0.15	(\$0.13)	(\$0.25)
Grain Sorghum Spot Cash\$	\$6.45	\$6.69	\$6.69	\$6.29	\$6.50	\$6.14
Sorghum Spot Cash Basis	\$0.25	\$0.49	\$0.49	\$0.09	\$0.30	(\$0.06)
Grain Sorghum Harvest FC\$: Fall ²⁰²²	\$5.56	\$5.46	\$5.06	\$5.31	\$5.36	\$5.25
Sorghum Harvest FC\$ Basis	(\$0.10)	(\$0.20)	(\$0.60)	(\$0.35)	(\$0.30)	(\$0.41)

BELOIT, KS: Corn Basis - CVA COOP

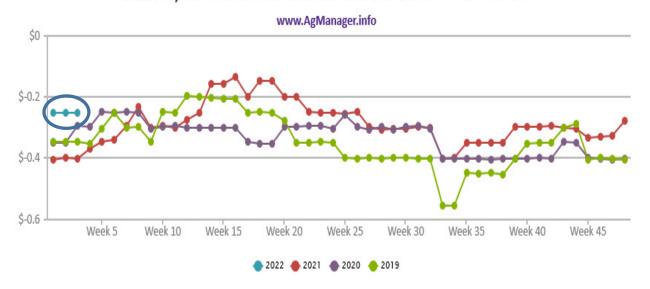


HOLTON, KS: Corn Basis - JACKSON FARMERS

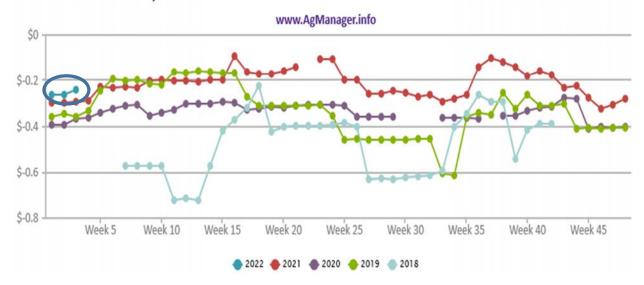


Kansas Cash & Futures Pr	ices					
Date						
1/24/2022						
Grain Futures Contracts	Closing \$					
MAR 2022 KC HRW Wheat (Lead Contract)	\$8.2425					
JULY 2022 KC HRW Wheat (Harvest Contract)	\$8.2600					
1/24/2022	Cash Grain &	Harvest Co	ntract Prices	@ Kansas Gi	rain Elevator	'S
	Representing the	highest bids avo	ailable at each lo	cation		
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\$	\$7.99	\$8.13	\$8.13	\$8.13	\$8.14	\$7.74
HRW Wheat Spot Cash Basis	(\$0.25)	(\$0.11)	(\$0.11)	(\$0.11)	(\$0.10)	(\$0.50)
KC HRW Wheat FC\$ - Harvest 2022	\$7.88	\$7.94	\$8.05	\$7.95	\$7.97	\$7.86
HRW Wheat Harvest FC\$ Basis	(\$0.38)	(\$0.32)	(\$0.21)	(\$0.31)	(\$0.29)	(\$0.40)

BELOIT, KS: Hard Red Winter Wheat Basis - CVA COOP

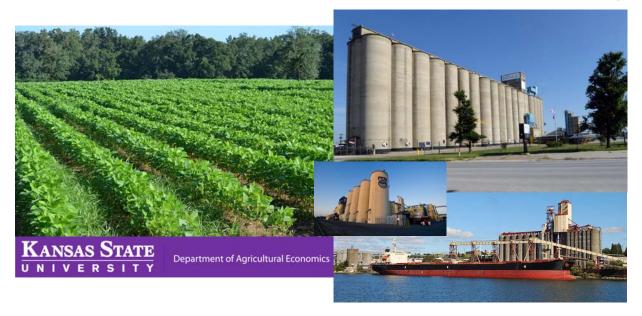


HOLTON, KS: Hard Red Winter Wheat Basis - JACKSON FARMERS



2022 Soybean Markets – Late January 2022



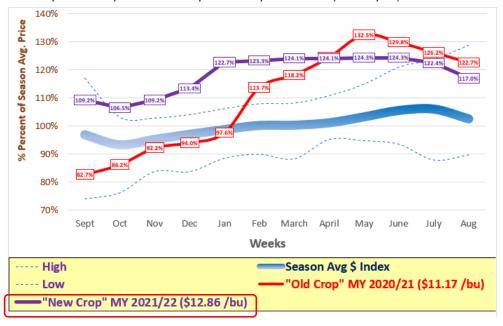






Kansas Soybean Seasonal Prices: MY 1999/00 - MY 2020/21 + "Old





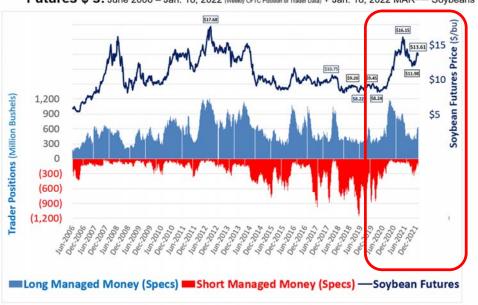
Net Position of Traders for CME SOYBEANS with Futures:

June 2006 - January 18, 2022 (Weekly CFTC Position of Trader Data) + January 18, 2022 MAR²⁰²² Soybean Futures



CME SOYBEANS Managed Money Traders (Specs) Long/Short Positions w.

Futures \$'s: June 2006 - Jan. 18, 2022 (Weekly CFTC Position of Trader Data) + Jan. 18, 2022 MAR²⁰²² Soybeans



2022 Soybean Market "Drivers"

1) U.S. Economy

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

2019 Corn Market "Drivers"

1) U.S. Economy

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

2) 2022 South America Crop Production Prospects

Monthly Crop Calendar for Soybeans

	Plan	Plant		Bloom			Harvest															
	Jan	Feb	_	_			May		Ju	n	Ju		Αu	g	Se	р	00	t	No	V	De	:C
Ukraine		\Box	Т		P	P	P	P	Г		Г		н	Н	Н	Н	г		Г		Г	Г
EU			П		P	P	P	P	Г				Г		Н	Н	н	Н	Г		Г	Γ
Russia			П		P	P	P	P							н	Н	н	Н	н	Н		Г
US			Т				P	P	P		В	В	В		Г	н	н	н	Н	Г		Γ
China	C	TTC					P	P	P	P		Г	Г		н	Н	н	Н	Г		Г	Γ
Canada		HS	CH	S H	Hedging na Roe		P	P	P	P	В	В	В	В	Г	н	н	н	Н		Г	Γ
Indonesia			Je	nna	R	oe '	P	P	P	P	P	P	н	н	Н	Н	н	н	Г			Г
Mexico	H H	н н			Г		P	P	P	P	P	P	P	P	P	P	н	Н	н	Н	н	1
India			1				Г		P	P	P	P	P	P	Г		Г	Г	Н	Н	н	٠
Paraguay	н н	H H	Н	Н	н	н	Н	Н	н	Н			Г		Г		P	P	Р	P	P	F
Brazil	н н	н н	н	н	н	н	н	н	Г				Г		Г	Г	Г	P	P	P	P	ı
Argentina	Р	ВВ	Г		н	н	н	н	н	Н			Г		Г		Г		P	P	Ρ	ı
South Africa		н н	Н	Н											Г		Г			P	P	ı

Sources: USDA, AMIS, & CHS, Inc.

Monthly Crop Calendar for Corn

	Pla	ant	t		Sil	Silk				arv	est													
	Oc	t	Νc	Nov De		Dec Jan		Feb Ma			Mar /		r	May		Jun		Jul		Aug		Sep		
EU	н	н	н	н									Р	Р	P	Р					н	н	н	н
US	н	н	н											Р	Р	Р			S	S	S			н
Mexico Summer	н	н	н	н	н	н	н	н	н	н	н			Р	Р	Р	Р	Р	Р	Р	Р	Р		
Ukraine	н	н	н											Р	P	Р			S	S				н
Russia	н	н	н	н			İ								Р	Р			S	S	S			
China	н	н			C	CHS		S) cue u		Hedging nna Roe					Р	Р	Р	Р					н	н
Indonesia <i>Dry Region</i>	н	н						Jei	nna I	Roe					P	Р	Р	Р	Р	Р	н	н	н	н
Philippines <i>Main</i>					Р	Р	P	Р	Р	Р	н	н	н	Н	Р	Р	Р	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									Р	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	P	Р	н	н	н	н	н	Н													Р	Р
South Africa	Р	Р	P	Р	Р	Р	P	S	S					Н	н	Η	н	н	н	н				
Mexico Winter							P	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 <i>Rainy Region</i>	н	н	н	н	н	н			Р	Р	Р	Р	Р	Р										
Nigeria											Р	Р	Р	Р	Р	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.

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

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2022 Corn Market "Drivers"

1) U.S. Economy

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



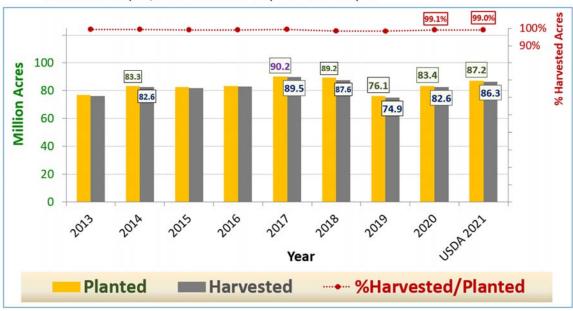
2) 2022 South America Crop Production Prospects

3) 2022 U.S. Soybean Acres

- **BUT** South America, U.S.-China, & fertilizer issues may affect that

U.S. Soybean Planted & Harvested Acreage: Years 2013-2021

as of the January 12, 2022 USDA NASS Crop Production Report

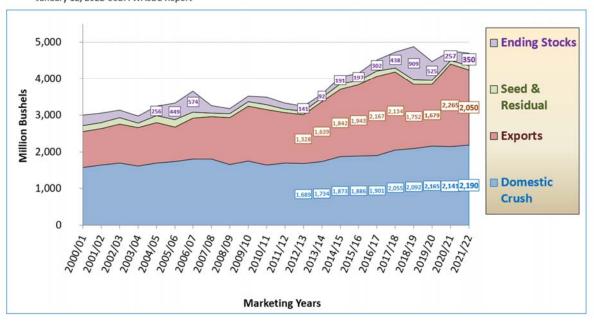


- **4)** "Strong" U.S. Soybean Usage in "Current" MY 2021/22 (thru 8/31/2022)
 - High Soybean Crush
 - o "Strong" soy crushings use @ 2.190 bb (vs 2.141 bb & 2.165 bb last 2 years)
 - U.S. Exports @ 2.050 bb^{USDA} (vs 2.265 bb & 1.679 bb last 2 years)
 - Total Use @ 4.357 bb (vs 4.504 bb & 3.952 bb last 2 years)



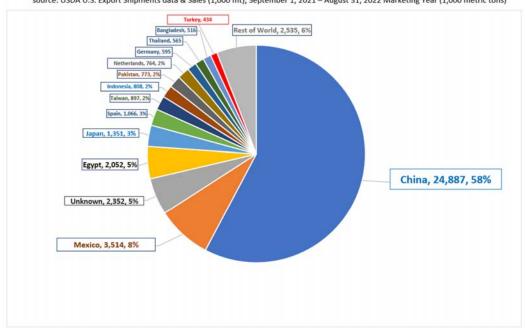
U.S. Soybean Use & Ending Stocks: MY 2000/01 - "New Crop" MY 2021/22, as of the

January 12, 2022 USDA WASDE Report



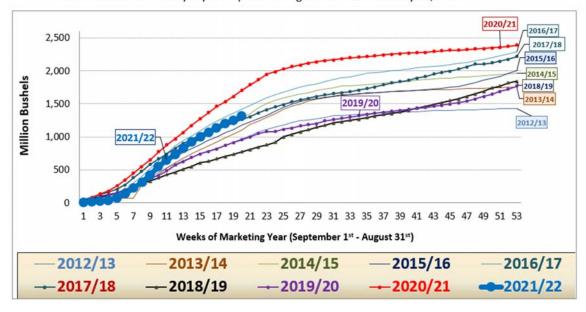
Top U.S. Soybean Export Buyers: "New Crop" MY 2021/22 through January 13, 2022 -

source: USDA U.S. Export Shipments data & Sales (1,000 mt); September 1, 2021 – August 31, 2022 Marketing Year (1,000 metric tons)



U.S. Soybean Exports: for MY 2012/13 through "New Crop" MY 2021/22 as of

recent USDA FAS Weekly Export reports through the week of January 13, 2022



5) "Moderate" U.S. Soybean Stocks & % Ending Stocks-to-Use

• 350 bb @ 8.03% Stocks/Use in "Current" MY 2021/22

Q? Impact of +/-100 mb U.S. soybean ending stocks?

- o **250 bb** vs **450 bb** U.S. Soybean ending stocks
 - ≤6% S/U vs ≥ 10% S/U
 - ❖ Significant +/- Soybean price effects

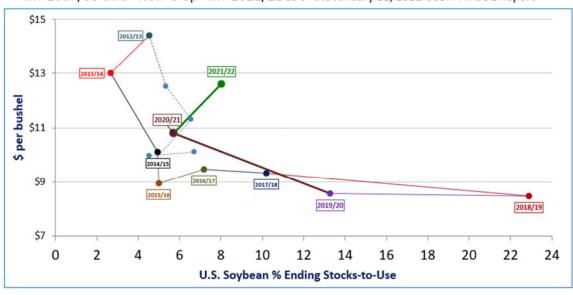
U.S. Soybean % Stocks/Use vs U.S. Cash Prices:

MY 2006/07 - "New Crop" MY 2021/22 as of the January 12, 2022 USDA WASDE Report



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

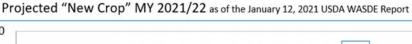
MY 2007/08 thru "New Crop" MY 2021/22 as of the January 12, 2022 USDA WASDE Report



6) U.S. Soybean Price Outlook USDA

- \$10.80 /bu in "Old Crop" MY 2020/21
- \$12.60 /bu in "Current Crop" MY 2021/22 (+\$1.80 /bu vs "old crop")
- USDA^{2021/22} January 12, 2022 WASDE Report U.S. numbers
 - Record Yields = 51.4 bu/ac
 - o Sizable Crop @ **4.435 bb** U.S. production (vs 4.751 bb last year)
 - Strong Use @ 4.357 bb (vs 4.504 bb last year)
 - Ending Stocks @ 350 bb End Stocks (257 bb & 525 bb last 2 years)
 - % Ending Stocks-to-Use @ 8.03% (5.71% & 13.28% last 2 years)

U.S. Soybean Production & Total Supplies: MY 2010/11 thru



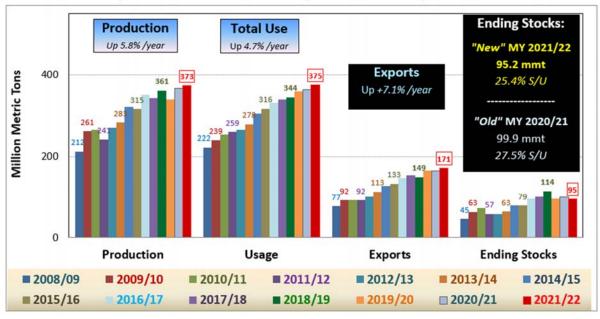


7) "Other" Market Factors

- "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
 - o U.S. Government &/or FED policies that impact U.S. economy & commodities
 - o Economic unrest with U.S. fall elections & domestic economic uncertainty

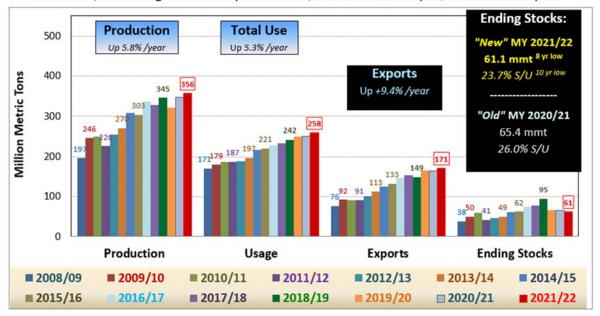
World Soybean Usage & Ending Stocks: MY 2008/09 through

"New Crop" MY 2021/22 as of the January 12, 2022 WASDE Report



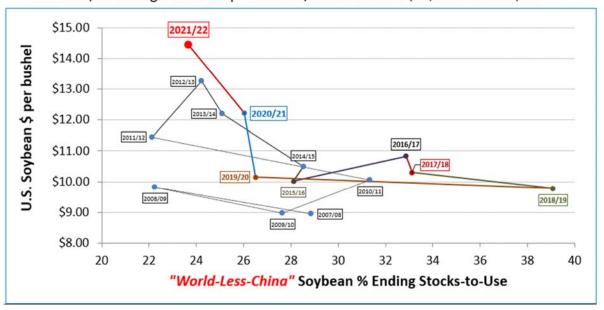
"World-Less-China" Soybean Usage & Ending Stocks:

MY 2008/09 through "New Crop" MY 2021/22 as of the January 12, 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 January 12, 2022 WASDE Report



World Soybean Supply-Demand Trends: MY 2007/08 - "New"

MY 2021/22 as of the January 12, 2022 USDA WASDE Report



South America Soybean Supply-Demand Trends: MY

2007/08 - "New" MY 2021/22 as of the January 12, 2022 USDA WASDE Report



Brazil Soybean Supply-Demand Trends: MY 2007/08 - "New" MY

2021/22 as of the January 12, 2022 USDA WASDE Report



Argentina Soybean Supply-Demand Trends: MY 2007/08 -

"New" MY 2021/22 as of the January 12, 2022 USDA WASDE Report



China Soybean Supply-Demand Trends: MY 2007/08 - "New Crop" MY

2021/22 as of the January 12, 2022 USDA WASDE Report



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

MY 1992/93 through "New Crop" MY 2021/22, as of the January 12, 2022 USDA WASDE report.



2022 Soybean Markets - Early-Mid April 2022

Key Soy Market Factors to Watch in April 2022

- 1) If Brazil remains dry & impacts soybean crop
- 2) U.S. Soybean Export & Supply-Demand prospects
 - ✓ U.S. vs China Trade Status
 - ✓ <u>U.S. Planted Acres</u> of Soybeans vs Corn?
- 3) Domestic Soybean Usage Issues
 - ✓ Soybean Crush to retain strength? (Soyoil demand?)
 - ✓ Exports are a "Wild Card" watch the South America crop
 & Chinese market interactions



Department of Agricultural Economics

2022 Soybean Markets - Early-Mid May 2022

Key Soy Market Factors to Watch in May 2022

- 1) More accurate view of South America soybean crop
- 2) U.S. Corn Planting underway w. Soybeans following
 - ✓ Planting problems would support market ("early" for panic)
 - ✓ U.S. Soybean vs Corn Plantings still affecting market
- 3) Domestic Corn Usage Issues
 - ✓ Soy Crush & export use ("Show us" the soybean use!)
- 4) "Decision" time for New Crop Soy Market Direction



KANSAS STATE

Department of Agricultural Economics

2022 Soybean Markets - Early-Mid July 2022

Key Soy Market Factors to Watch in July 2022

- 1) 2022 U.S. Crop Prospects are the Soy market focus
- 2) Brazil Soybean Crop #'s mostly Known
 - ✓ Whether "large" or not will affect U.S. soybean exports & \$s
- 3) U.S. August soy 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



Department of Agricultural Economics

Anticipating the likely
Soybean Market Price Outcome
by November 1, 2022

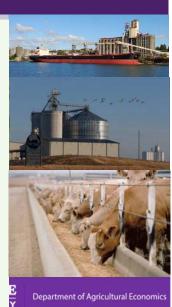
Fall 2022 Corn Market Price Possibilities



2022 Soybean Markets - Early November 2022

"Large" Stocks Scenario in 2022 (15% prob.)

- 1) 2022 U.S. Soybean production of ≈ 4.5 billion bu.
- 2) "New Crop" 2022/23 Ending Stocks ≈ 450 mln. bu
 - ✓ % Ending Stocks-to-Use ≥ 10%
- 3) "Growing" U.S. Soybean Supplies a "Buyer's Mkt"
 - ✓ Low prices supporting U.S. soybean use (a "silver lining!")
 - ✓ Stronger U.S. soy exports would result (some now & later!)
- 4) <u>Futures fall</u> @ \$11.50 BUT some farmers delay sales to force market net returns to post-harvest storage

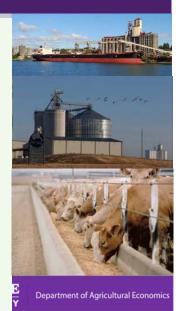


2022 Soybean Markets - Early November 2022

"Average" Stocks Scenario in 2022 (50% prob.)

- 1) 2022 U.S. Soy production of ≈ 4.20 -4.30 bln. bu.
- 2) "New Crop" 2022/23 End Stocks ≈ 350 bln. bu
 - ✓ % Ending Stocks-to-Use ≈ 8%-9% S/U
- 3) "OK-Not Tight" U.S. Soy Supplies a "Neutral Mkt"
 - ✓ "Moderate/Lower" Soy \$ "Good-Healthy" soybean use
 - ✓ U.S. soy exports varying on 2022 South America crop size
- 4) <u>Futures</u> *moderate* @ \$12.75 in November ²⁰²² –

 Reflecting lower risk & uncertainty in the Soybean market



2022 Soybean Markets - Early November 2022

"Tight" Stocks Scenario in 2022 (35% prob.)

- 1) 2022 U.S. Soy production of < 4.20 bln. bu.
- 2) "New Crop" 2022/23 End Stocks < 250 mln. bu
 - ✓ % Ending Stocks-to-Use < 6%
- 3) "Tight" U.S. Soybean Supplies a "Seller's Market"
 - √ "High" Soybean prices\$ "Rationing" Soybean usage
 - ✓ IF small 2022 South America crop, then drives \$'s higher
- 4) <u>Futures</u> *rise* @ \$13.75 in November Reflecting impact of a smaller U.S. crop & tight World S/U

