

2021 Outlook Conference

Fargo, North Dakota

August 16-17, 2021

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EXTENSION AGRICULTURAL ECONOMIST



Department of Agricultural Economics



### Most Recent Wheat Market Headlines.....

Russian Wheat Exports Fall 20% So Far This Season: Agency - AgResource, 8/16/2021

Wheat up, hovers close to 8-1/2-year high on supply concern - Reuters, 8/16/2021

Russian wheat prices jump after steep cuts to USDA forecast - Reuters, 8/16/2021

Commercials caught short by rally in grain and oilseed prices – AgResource, 8/16/2021

Rain-hit French wheat crop shows uneven test weights - France AgriMer - Reuters, 8/16/2021

Record Ukraine cumulative average wheat yield after 87% harvested.- AgResource, 8/15/2021

EU wheat soars to nearly 9-year high (\$305 MT - \$8.30 BU) as September expiry adds to harvest tension – AgResource, 8/13/2021

### More Recent Wheat Market Headlines.....

MGE reaches \$9.50, a new high for this 2021 rally. Next upside target is \$10.35?- AgResource, 8/13/2021

India .... wheat record at 109.5 MMT vs 107.9 MMT last year - AgResource, 8/12/2021

Some big increases in Canadian crop prices in recent days... - AgResource, 8/12/2021

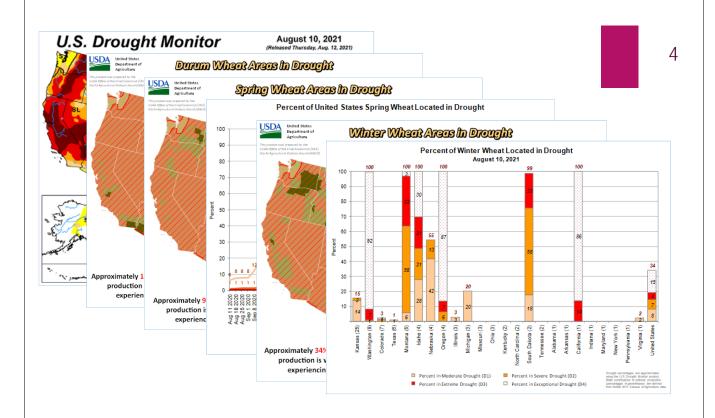
EU wheat, barley harvest losses create 'explosive' world supply outlook - AgResource, 8/12/2021

Global spring wheat production in jeopardy due to simultaneous droughts in Canada, US, Kazakhstan, & Russia. – Reuters, 8/11/2021

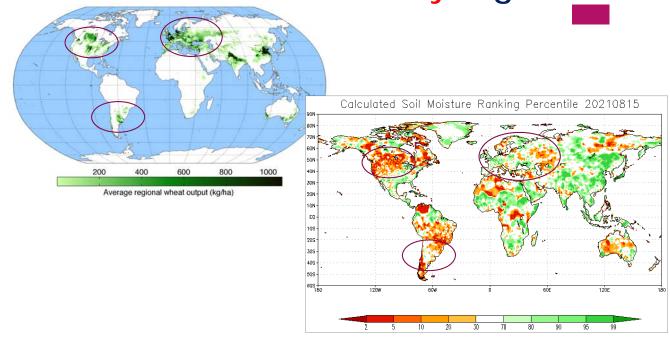
South Korea pay's \$347 MT (\$9.44 /BU) for US Soft White & \$401 MT (\$10.91 /bu) for US HRS; paid \$300 MT (\$8.16 /bu) for Aussia Hard Wheat – Reuters, 8/10/2021

Why Wheat Quality Matters - Black Sea and French - AgResource, 8/5/2021

Millers, bakers fret as drought withers North America's spring wheat - Reuters, 8/5/2021



### World Wheat Production & Dry Regions



### **Key Wheat Crop Issues in 2021**

- ☐ Crop Problems in Key Wheat Exporters
  - Russia ⇒ short production 72.5 mmt<sup>2021</sup> (vs 85.35 mmt<sup>2020</sup>)
  - European Union ⇒ wet harvest & quality problems in Germany &
     France (low milling quality)
  - Canada 

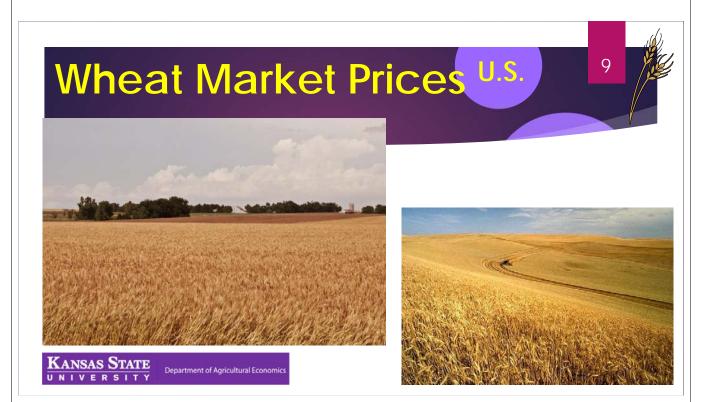
    → Hot, dry conditions 24 mmt<sup>2021</sup> (vs 35.2 mmt<sup>2020</sup>)
  - **U.S.** ⇒ Hot, dry conditions 46.2 mmt<sup>2021</sup> (vs 49.7 mmt<sup>2020</sup>)
- ☐ Larger Crops in Ukraine, Australia, Argentina & China

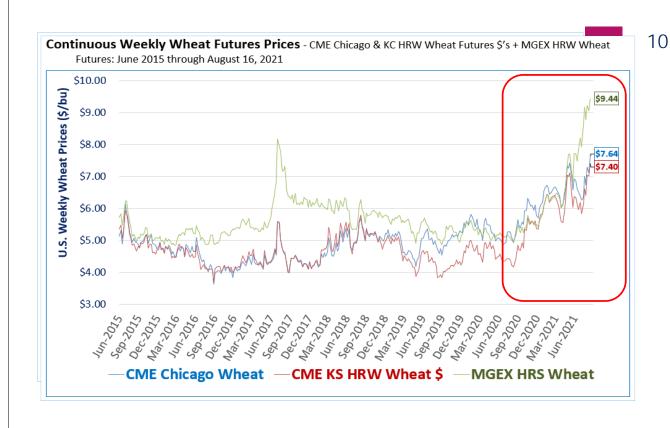
### More Wheat Market Issues .....

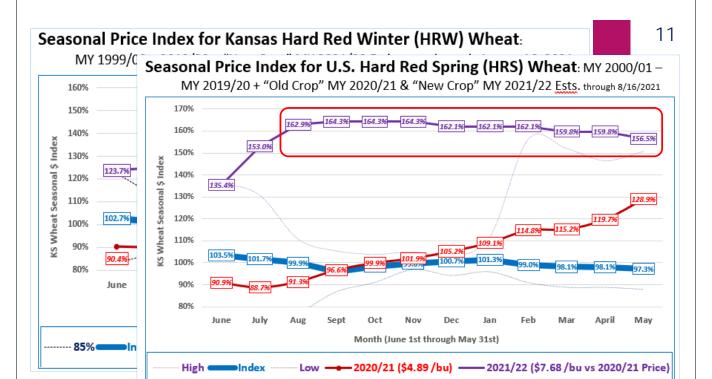
- U.S. Dollar 2 Lower, supporting U.S. wheat exports
- Wheat feeding
  - o **Domestic U.S.** ⇒ 160 mb<sup>2021</sup> (4.35 mmt) vs 99 mb<sup>2020</sup> (2.7 mmt)
  - China & elsewhere ???? ⇒ Reports of increased wheat feed use
- High Ocean Freight Rates
  - o Baltic Dry Index (BDI) = 3,606 August 16, 2021 (vs 393 March 2020)
  - Logistics disadvantage to <u>U.S. wheat exports</u> in ocean shipping costs into **Middle Eastern** & other foreign markets

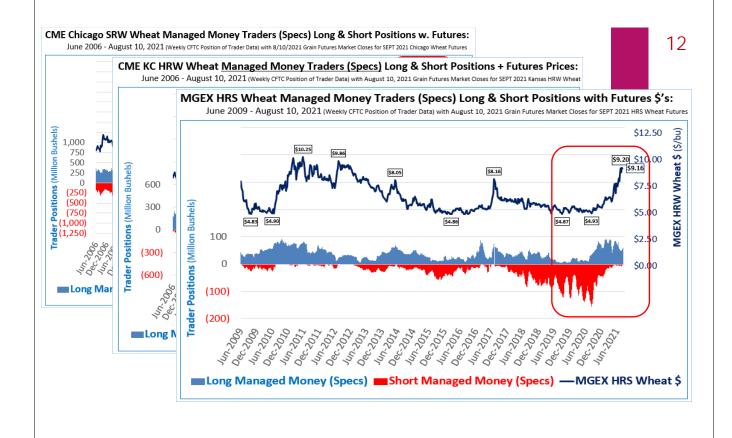
### More Wheat Market Issues .....

- Prospects for Winter Wheat seeding in Fall 2021
  - Varying soil moisture conditions across <u>U.S. winter wheat areas</u>
  - IF <u>LaNina weather trend</u> continues increases risk of dry fall weather in the U.S. winter wheat areas
- Risk of broader systematic commodity market events
  - Potential exists for *geopolitical conflicts* between the U.S. & other trading countries – which would introduce **serious risk**, **uncertainty &** likely volatility into U.S. & world grain markets

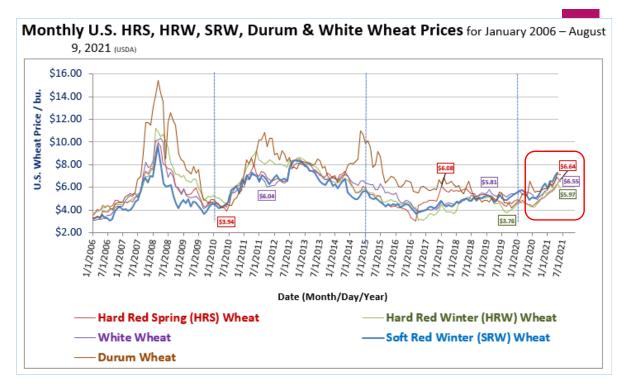










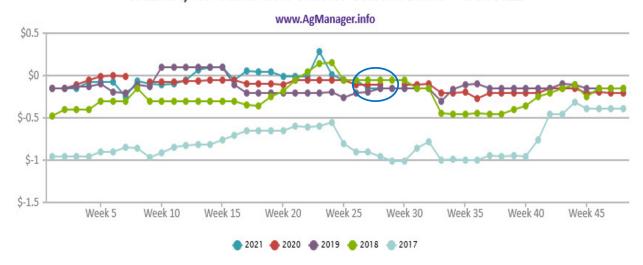


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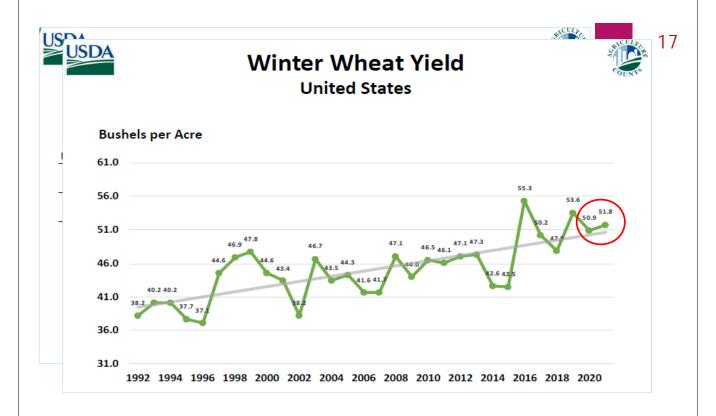
### TOPEKA, KS: Hard Red Winter Wheat Basis - CARGILL

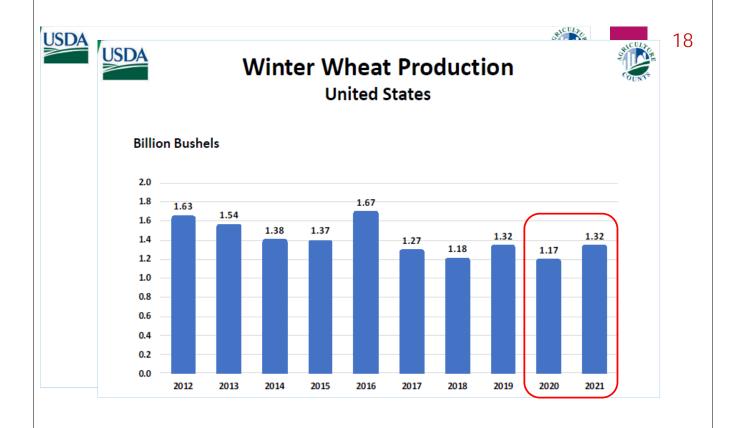


### SALINA, KS: Hard Red Winter Wheat Basis - CARGILL







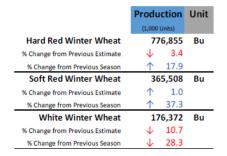


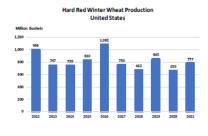


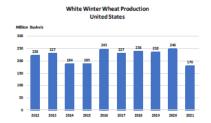
### **August 2021 Winter Wheat Production**

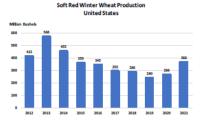


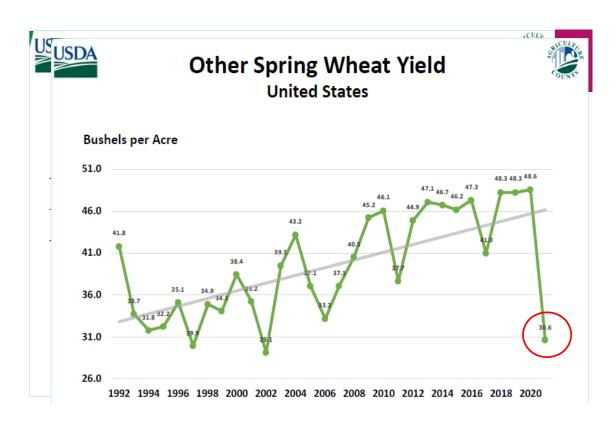
#### **United States by Class**

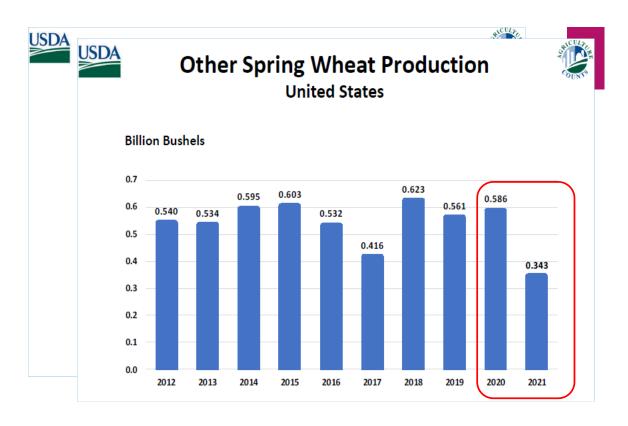


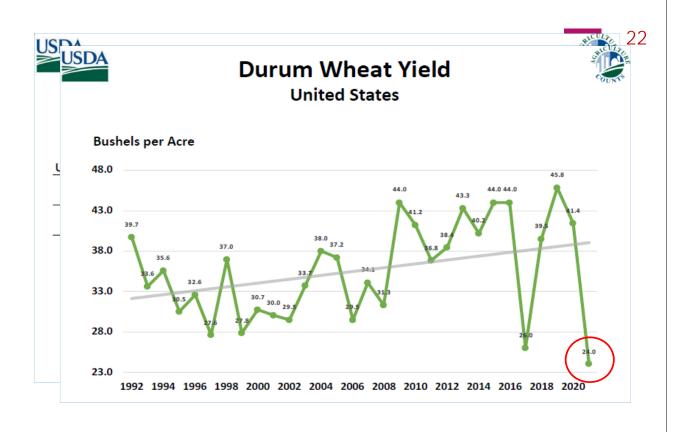










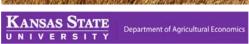


## 2021 U.S. Wheat Quality & Grades 8/13/2021

- HRW Wheat <sup>2021</sup> ⇒ 11.4% protein, 60.6 lb test wt., 1.8% defects • Versus 5 year average = 11.0% protein, 60.9 lb. test wt., 1.2% defects
- SRW Wheat <sup>2021</sup> ⇒ 9.4% protein, 59.5 lb test wt., 1.2% defects • Versus 5 year average = 9.6% protein, 58.2 lb. test wt., 1.5% defects
- Soft White Wheat <sup>2021</sup> ⇒ 11.3% protein, 59.9 lb test wt., 0.9% defects
   Versus 5 year average = 9.8% protein, 61.4 lb test wt., 0.6% defects
- HRS Wheat <sup>2021</sup> ⇒ 15.4% protein, 62.0 lb test wt., 0.8% defects • Versus 5 year average = 14.5% protein, 61.2 lb test wt., 0.9% defects

# Wheat Supply-Demand J.S.







### U.S. Wheat Total Supplies for MY 2012/13 – Projected MY 2020/2021 as of the August 12, 2021 USDA Crop Production & WASDE Reports

as of the August 12, 2021 OSDA Crop Production & WASDE Reports



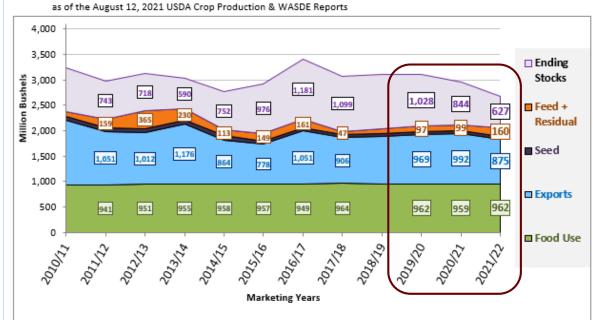
#### U.S. Wheat Supply and Demand

Item	2020/2021 estimate	2021/2022 forecast	Change from July 12	Change from 2020/2021		
item	estillate	Torecast	July 12	2020/2021		
Planted area (million acres)	44.3	46.7		2.4		
Harvested area (million acres)	36.7	38.1		1.4		
Yield (bushels per acre)	49.7	44.5	-1.3	-5.2		
	Million bushels					
Beginning stocks	1,028	844		-184		
Production	1,826	1,697	-49	-129		
Imports	100	145		45		
Total supply	2,954	2,686	-49	-269		
Food use	959	962	-1	3		
Seed	61	62		1		
Feed and residual	99	160	-10	61		
Domestic use	1,119	1,184	-11	65		
Exports	992	875		-117		
Total use	2,110	2,059	-11	-51		
Ending stocks	844	627	-38	-217		
_	Percent					
Stocks to use ratio	40.0	30.4	-1.7	-9.5		
	Dollars per bushel					
Average market price	5.05	6.70	0.10	1.65		

<sup>--</sup> No change.

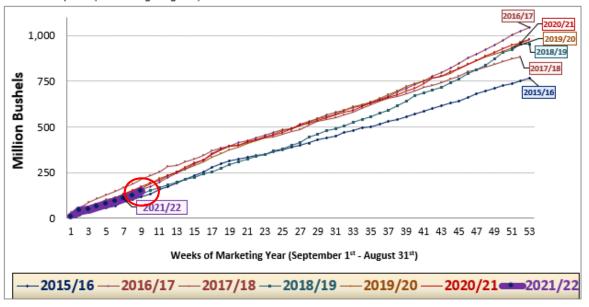
August 12, 2021

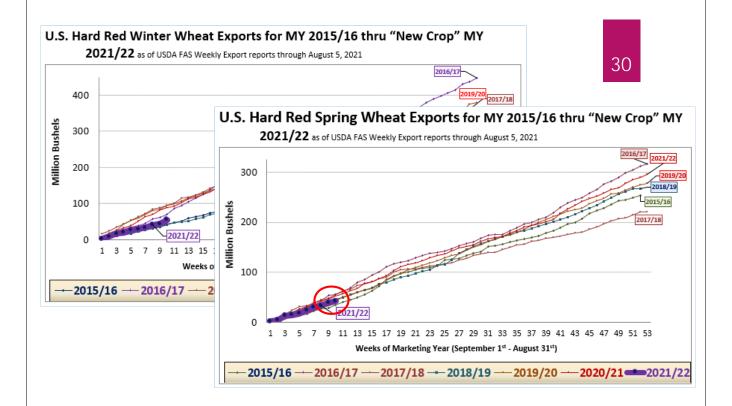
## U.S. Wheat Use & Ending Stocks: MY 2010/11 – "New Crop" MY 2021/22 as of the August 12, 2021 USDA Crop Production & WASDE Reports



#### U.S. All Wheat Exports for MY 2015/16 thru "New Crop" MY 2021/22 as of USDA FAS Weekly

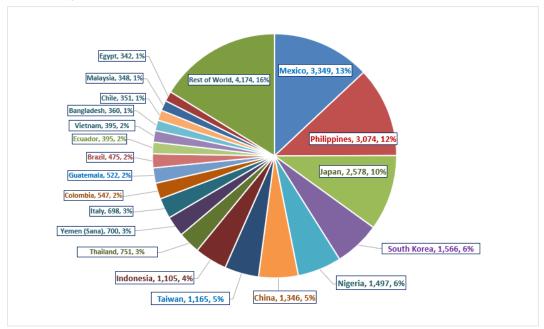
Export reports through August 5, 2021



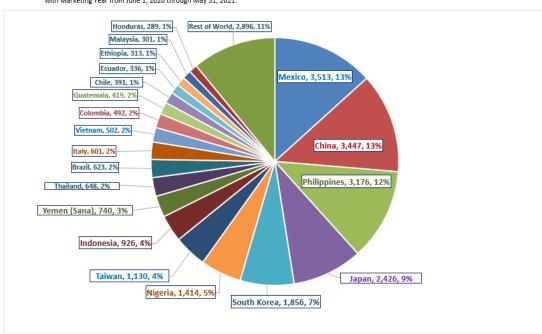


Top 20 U.S. Wheat Export Buyers – Most Recent 3 Year Average: MY 2018/19 through "Old Crop" MY

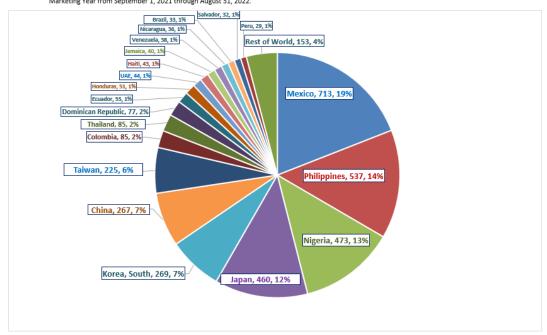
2020/21 as of the August 5, 2021 USDA WASDE report (via USDA FAS PSD Online) (1,000 mt)



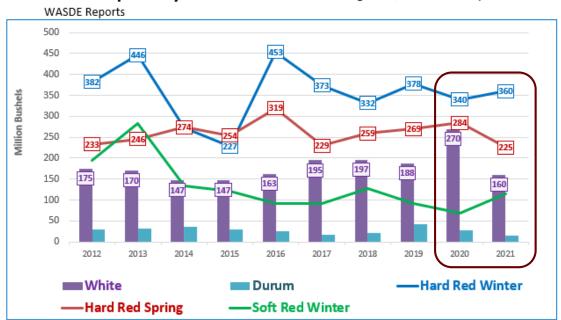
Top 20 U.S. Wheat Export Buyers — "Old Crop" MY 2020/21 as of the August 5, 2021 USDA U.S. Export Shipments (1,000 mt), with Marketing Year from June 1, 2020 through May 31, 2021.



Top U.S. Wheat Export Buyers — "New Crop" MY 2021/22 as of the August 5, 2021 USDA U.S. Export Shipments (1,000 mt), with Marketing Year from September 1, 2021 through August 31, 2022.



### U.S. Wheat Exports by Class Since 2012 as of the August 12, 2021 USDA Crop Production &





### U.S. Wheat Ending Stocks & Percent (%) Stocks-to-Use: мү 2006/07 thru

"New Crop" MY 2021/22 as of the August 12, 2021 USDA Crop Production & WASDE Reports



#### U.S. Wheat Supply-Demand Balance Sheet: "Old Crop" MY 2020/21 - "New

Crop" MY 2021/22 as of the August 12, 2021 USDA WASDE report, with KSU scenarios

$ \lceil                                   $	Item	USDA "Old Crop" MY 2020/21	A. USDA Scenario #1 "New" MY 2021/22 6/30 Grains Stocks adj	B. KSU Scenario #2 "New" MY 2021/22 Higher Exports*50 mb	C. KSU Scenario #3 "New" MY 2021/22 Lower Exports 50 mb
ullet	% Probability of Occurring MSU est.		60% prob	20% prob.	20% prob.
	Planted Area (million acres)	44.349	46.743	46.743	46.743
	Harvested Area (million acres)	36.746	38.102	38.102	38.102
	% Harvested/Planted Area	82.86%	81.51%	81.51%	81.51%
	Yield / harvested acre (bu/ac)	49.7	44.5	44.5	44.5
	Beginning Stocks	1,028	844	844	844
	Production	1,826	1,697	1,697	1,697
	Imports	105	145	145	145
	Total Supply (million bushels)	2,954	2,686	2,686	2,686
	Food Use	960	962	962	962
_	Seed Use	61	62	62	62
	Exports	992	875	925	825
	Feed & Residual Use	98	160	160	160
	Total Use (million bushels)	2,110	2,059	2,109	2,009
$\bigcap$	Ending Stocks (million bushels)	844	627	577	677
	% Ending Stocks-to-Use	40.00%	30.45%	27.36%	33.70%
	Days of Supply (% S/U x 365 days)	146 days	111 days	100 days	123 days
	U.S. Wheat Avg. Farm Price (\$/bushel)	\$5.05	\$6.70	\$7.35	\$6.20

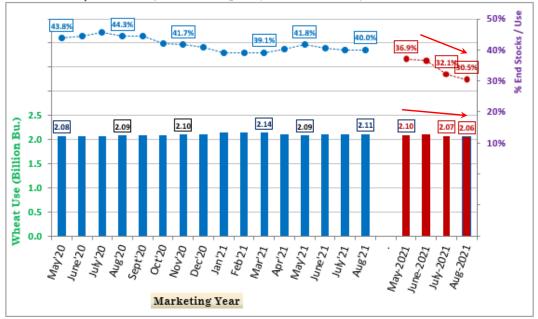
#### U.S. Wheat Ending Stocks vs U.S. Cash Prices: MY 2009/10 thru "New Crop" MY

2021/22 as of the August 12, 2021 USDA Crop Production & WASDE Reports, with KSU Projections



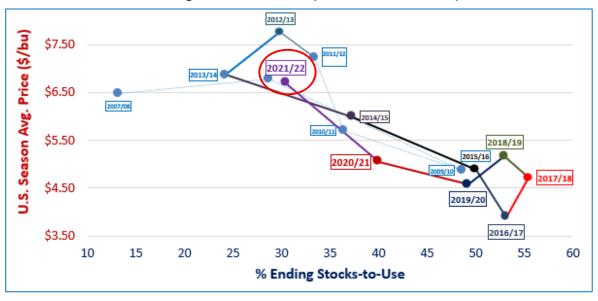
#### U.S. Wheat Ending Stocks & % Ending Stocks-to-Use: MY 2005/06 through "New

Crop" MY 2021/22 as of the August 12, 2021 USDA WASDE report



#### U.S. Wheat Price vs U.S. % Stocks-to-Use: MY 2007/08 thru "New Crop" MY

2021/22 as of the August 12, 2021 USDA Crop Production & WASDE Reports







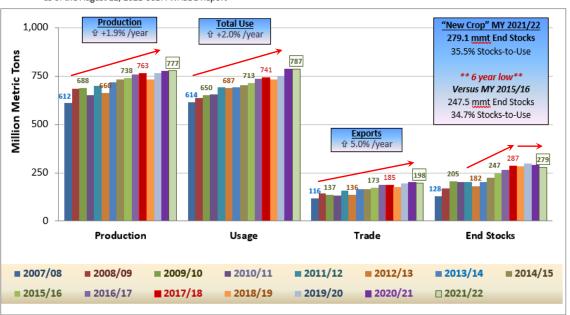


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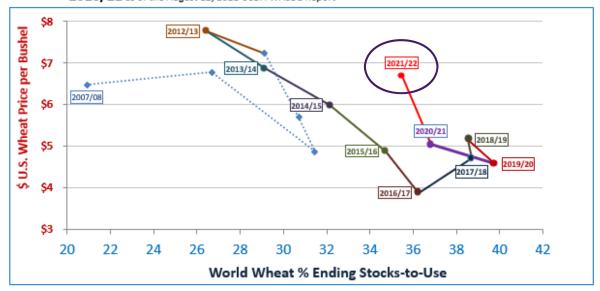
#### World Wheat Usage & Ending Stocks: MY 2007/08 - "New Crop" MY 2021/22

as of the August 12, 2021 USDA WASDE Report



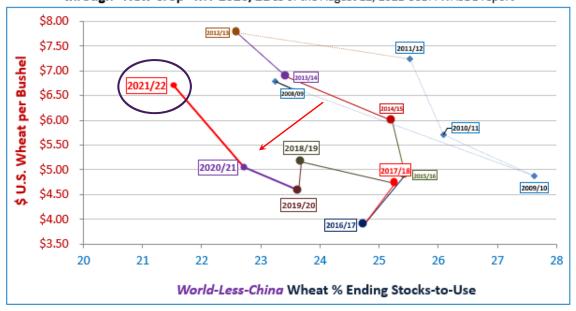
#### U.S. Wheat Price vs World % Stocks-to-Use: MY 2007/08 through "New Crop" MY

2020/21 as of the August 12, 2021 USDA WASDE Report

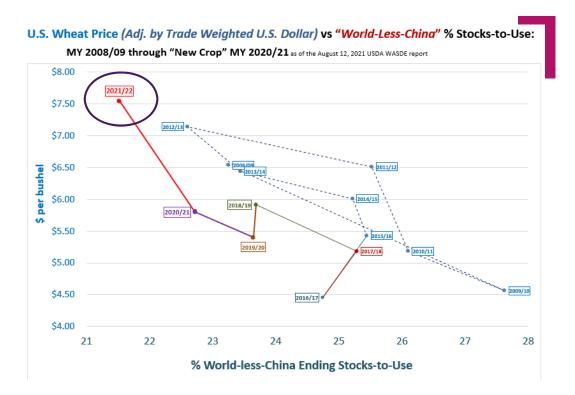


#### U.S. Wheat Price vs "World-Less-China" % Stocks-to-Use: MY 2008/09

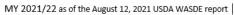
through "New Crop" MY 2020/21 as of the August 12, 2021 USDA WASDE report







#### World vs "World-Less-China" Ending Stocks & % Stocks-to-Use: MY 2007/08 through "New Crop"













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### Wheat Market Trends in 2021-2022

- ► What <u>economic responses</u> have been set in motion by recent wheat market events? *Do high grain prices "cure" high prices?* 
  - High prices for U.S. & World wheat are likely to encourage <u>wheat</u>
     <u>acreage increases</u>
    - HOWEVER high prices for corn, grain sorghum, soybeans & other crops will compete against wheat acres in 2021-2022
  - Soil moisture in the U.S. central & southern plains during Fall 2021 will be key for fall seeding (along with wheat market prospects at that time).
  - How will wheat producers respond in Major exporting countries?

