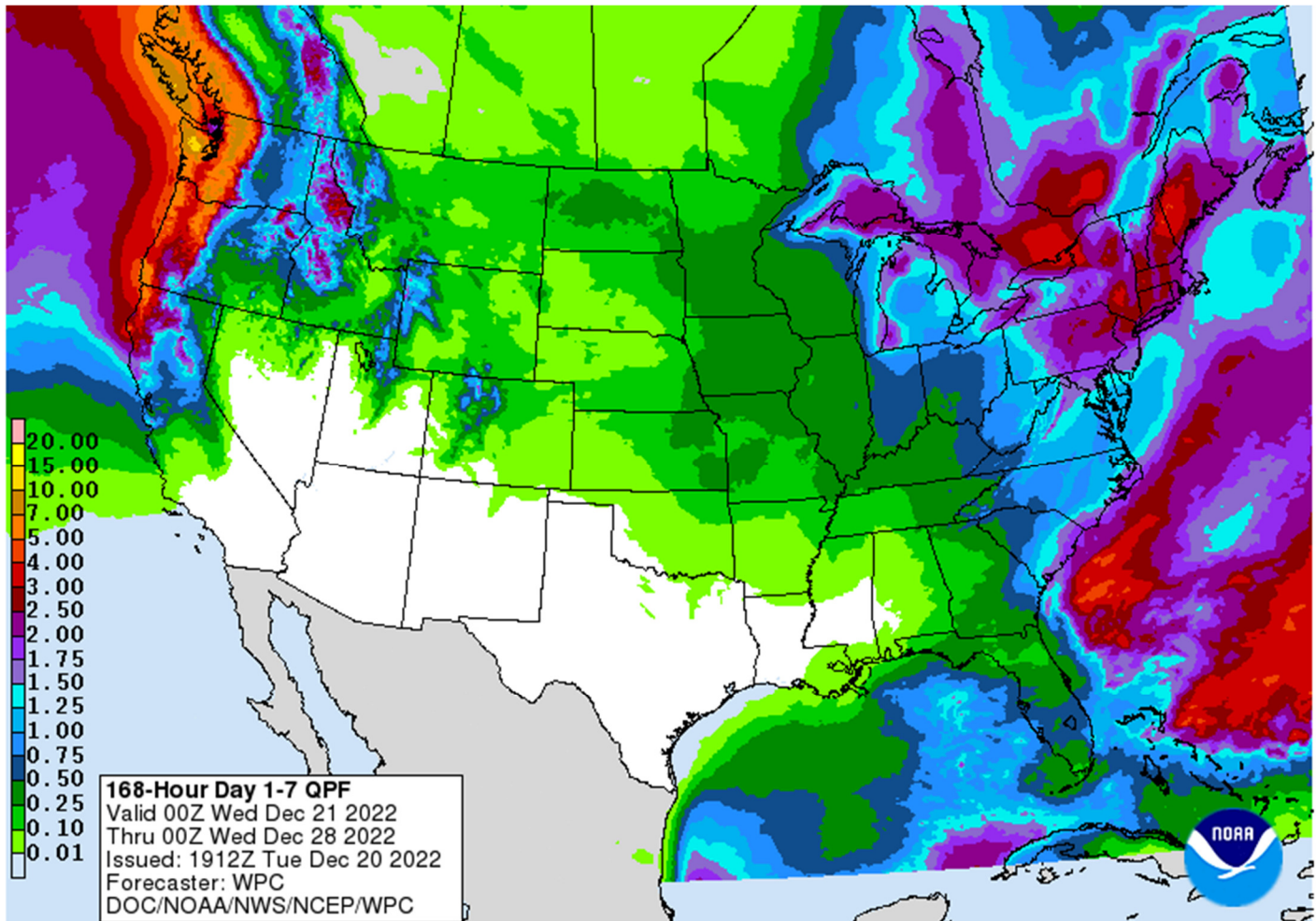




Attached is our updated US soybean oil balance sheet. We adjusted the 2022-23 SBO yield lower. Higher trade in the soybean complex from a lower USD and unfavorable weather forecasts for Argentina. Some of the weather models turned drier for Argentina's two rain events. Corn and wheat ended higher. Gains in Chicago wheat were limited as a major winter storm will sweep across the US Great Plains and Midwest starting Wednesday. We look for March soybeans to test their recent contract high of \$14.9725 by the end of the week if Argentina misses out on some of their rains. The US will see a large winter storm starting Wednesday. Temperatures will be extremely cold well into next week before trending above average for the second week of the forecast. Livestock stress and unfavorable travel conditions are expected through Friday.

Weather



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La Nina is predicted to stick around but fad away by US planting season. We see this as an indicator for a normal North American growing season. South American crop production will be monitored.

La Nina Probability Outlook

	2022 Mid-DEC	2022 Mid-NOV	2022 Mid-OCT	2022 Mid-Sep	2022 Mid-Aug	2022 Mid-Jul	2022 Mid-Jun	2022 Mid-May	2022 Mid-April
NDJ	99	92	86	80	72	65	58	61	53
DFJ	77	76	75	65	60	56	51	58	
JFM	50	59	69	54	47	45	45		
FMA	26	40	43	38	32	34			
MAM	14	24	26	22	18				
AMJ	9	13	16	16					
MJJ	8	10	12						
JJA	8	9							
JAS	9								

Source: IRI, CPC, and FI

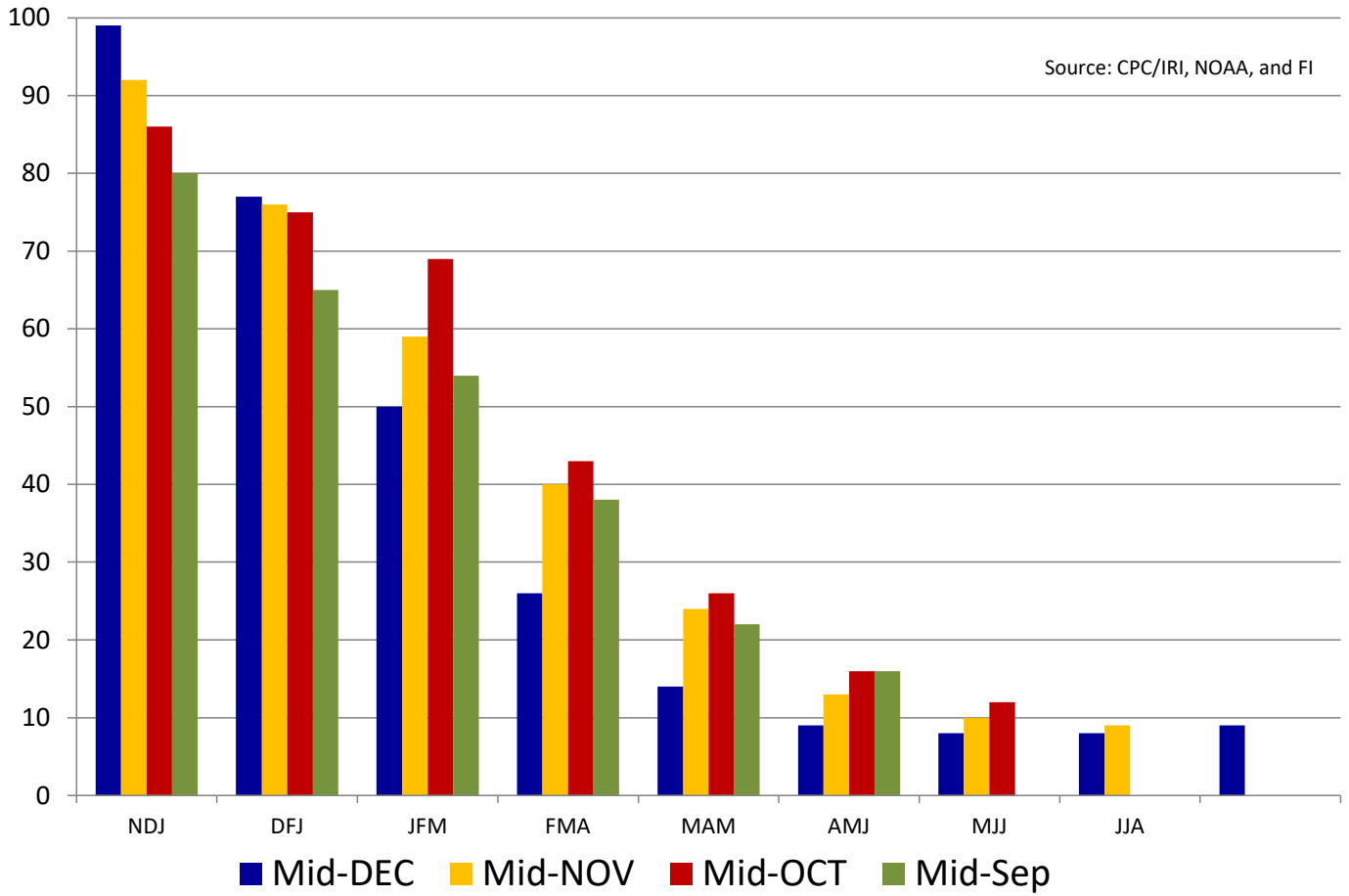
El Nino Probability Outlook

	2022 Mid-DEC	2022 Mid-NOV	2022 Mid-OCT	2022 Mid-Sep	2022 Mid-Aug	2022 Mid-Jul	2022 Mid-Jun	2022 Mid-May	2022 Mid-April
NDJ	0	0	0	0	1	6	5	5	10
DFJ	0	0	0	2	4	5	6	5	
JFM	0	1	2	3	6	7	7		
FMA	3	3	3	6	9	8			
MAM	8	6	7	11	14				
AMJ	20	15	15	17					
MJJ	32	26	26						
JJA	40	37							
JAS	49								

Source: IRI, CPC, and FI

La Nina % Probability

Source: CPC/IRI, NOAA, and FI



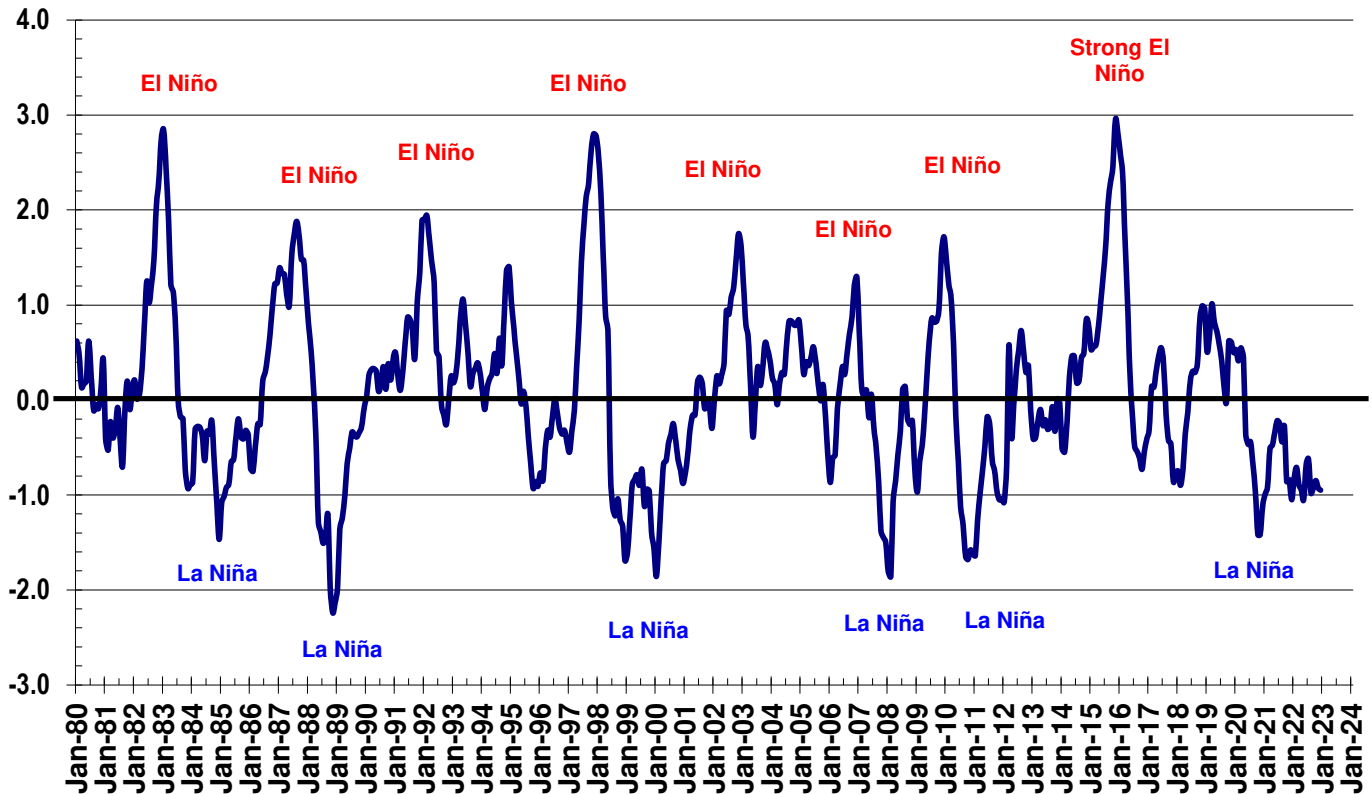
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Eastern Pacific Sea-Surface Temperature Anomalies 3.4 through mid Nov.



Source: NOAA, FI Current month partial-from weekly data

World Weather, INC.

MOST IMPORTANT WEATHER FOR THE COMING WEEK

- Argentina rainfall as predicted by the computer forecast model runs today is drier than that of Sunday or Monday, especially in the second week of the outlook
 - The reduction in rainfall was most noted in the GFS forecast and World Weather, Inc. believes too much rain was removed from the outlook
- An unsettled week-two weather outlook in the upper atmosphere over Argentina suggests there is going to be more opportunity for scattered showers in early January.
 - As La Nina weakens during that month the rainfall will become a little more significant
- Rainfall in Argentina during the balance of December will be sufficient to leave soil and crop conditions mostly near where they are today, although a bout of short term improvement is expected following the rain of Thursday through Sunday
 - Coverage will be close to 100% during the four day period
 - Rainfall will range from 0.30 to 1.00 inch most often with a few totals of 1.00 to 1.50 inches
 - All of the moisture will be welcome and temporary improvements to topsoil moisture will result, but the change may not last long
 - Follow up rainfall will be very important and early indications suggest the follow up moisture may not be all that great for a while

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- Argentina temperatures should be milder than they were earlier this month and that will help conserve soil moisture a little longer between rain events
- Argentina's bottom line remains a little tenuous with most crop areas expecting some rain, but not many will get enough to soak the soil for a prolonged period of time. Greater rain will be needed to improve production potentials
- Brazil weather is still advertised to be mostly good for summer crops
 - Western and southern Rio Grande do Sul and a part of Paraguay and Uruguay may be exceptions, though, with restricted rainfall and net drying expected for a while
 - Northern Brazil rainfall will be frequent and moderate to heavy at times during the coming week with slightly less intensive rain expected in the last days of December and early January
 - Some areas of excessive moisture are likely during much of the two week forecast, but crops should weather the situation relatively well
 - Temperatures will continue to be mostly seasonable with a slight cooler than usual bias – especially in the north.
- Brazil's bottom line should be favorable for summer crops and production potentials for the entire nation will remain high, despite some pockets of limited soil moisture in the southwest and some pockets of excessive moisture in the northeast
- U.S. bitter cold will have big implications for the nation during the next five days
 - Temperature extremes will include -40 Fahrenheit in Montana, -30s and -20s in other areas in the northern Plains, subzero degree temperatures as far south as the southern Texas Panhandle, central Oklahoma, northern Arkansas, southern Illinois and central Indiana
 - Freezes will occur through all of Texas and into northeastern Mexico as well as along the entire central Gulf of Mexico coast and into northern Florida later this week and into the weekend
 - Crop damage to sugarcane is likely in both Texas and Louisiana
 - Fruit and vegetable crops will be negatively impacted by freezes in South Texas
 - Florida citrus areas will be vulnerable to frost and freezes this weekend into early next week
 - Livestock stress is expected to be high from the northwestern U.S. Plains to Texas, the Delta and interior parts of the southeastern states
 - Midwest animal stress is expected as well
 - Snow and strong wind will combine in the eastern Great Plains and western through northern parts of the Midwest to induce blizzard conditions
 - Travel delays on roads and in a few airports are expected due to blizzard like conditions
 - Some road closures are possible in the western and northern Midwest because of snow and blowing snow
 - Strong heating fuel demand is expected across the Midwest and Great Plains because of the changing weather the remainder of this week
- U.S. weather will trend warmer next week and only a few small weather disturbances are expected
- Europe temperatures will be trending warmer this weekend and especially next week
- Elsewhere in Europe weather conditions are likely to be a little more tranquil for a while
 - Recent heavy snow in eastern Europe and the western CIS buried a lot of farmland, roadways and railways with snow delaying travel and stressing livestock, but conditions are expected to slowly improve
- Flood potentials could be high in the spring if the deep snow cover remains in southwestern Russia since the ground underneath it is excessively wet
- India and China weather will be relatively quiet over the next couple of weeks with limited precipitation and seasonable temperatures

- Australia weather will continue to support good late season wheat, barley and canola harvest progress, although a few more periodic showers will pop up at times in the coming week
- Interior Queensland and north-central New South Wales need significant rain to improve topsoil moisture in support of unirrigated summer crops
 - The situation is not a crisis, though precipitation would help ensure the best early season crop development
- South Africa crop weather is expected to be very good over the next two weeks with alternating periods of rain and sunshine likely supporting aggressive crop development and some periodic fieldwork
- Southeast Asia will continue to experience periodic rainfall and some periods of sunshine supporting most crops throughout the region
 - Mainland areas of Southeast Asia will experience the driest conditions and that is normal for this time of year
- North Africa weather will continue to include an erratic rainfall distribution.
 - Greater precipitation is still needed
- West-central Africa temperatures have not been very warm this season and there have been no seriously strong Harmattan wind speeds noted protecting coffee, cocoa and sugarcane from any adversity.
- East-central Africa rain will continue routinely supporting coffee and cocoa
- Today's Southern Oscillation Index was +11.13 today and it will move erratically higher over the next few days

Source: World Weather INC

Bloomberg Ag Calendar

Tuesday, Dec. 20:

- China's third batch of November trade data, including soy, corn and pork imports by country
- New Zealand global dairy trade auction
- EU weekly grain, oilseed import and export data
- Malaysia's Dec. 1-20 palm oil exports

Wednesday, Dec. 21:

- EIA weekly US ethanol inventories, production, 10:30am
- Weekly USDA Broiler Report

Thursday, Dec. 22:

- USDA weekly net-export sales for corn, soybeans, wheat, cotton, pork and beef, 8:30am
- US cold storage data for beef, pork and poultry, 3pm
- US red meat production, poultry slaughter, 3pm
- Port of Rouen data on French grain exports
- Sugar, cane and ethanol production data by Brazil's Conab (tentative)

Friday, Dec. 23:

- ICE Futures Europe weekly commitments of traders report, 1:30pm (6:30pm London)
- CFTC commitments of traders weekly report on positions for various US futures and options, 3:30pm
- USDA hogs and pigs inventory, cattle on feed, 3pm

Monday, Dec. 26:

- HOLIDAY: US, UK, Australia, Hong Kong, Singapore, several other countries
- **CBOT hard open for nighttime session**

Tuesday, Dec. 27:

- Malaysia Dec. 1-25 palm oil exports
- HOLIDAY: UK, Australia, Hong Kong

Wednesday, Dec. 28:

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- Weekly USDA Broiler Report

Thursday, Dec. 29:

- EIA weekly US ethanol inventories, production, 10:30am
- Vietnam's general statistics department releases monthly coffee, rice and rubber export data

Friday, Dec. 30:

- USDA weekly net-export sales for corn, soybeans, wheat, cotton, pork and beef, 8:30am
- CFTC commitments of traders weekly report on positions for various US futures and options, 3:30pm
- ICE Futures Europe weekly commitment of traders report, 1:30pm (6:30pm London)

Saturday, Dec. 31:

- Malaysia's Dec. 1-31 palm oil export data by cargo surveyor AmSpec

Source: Bloomberg and FI

USDA Calendar

https://www.nass.usda.gov/Publications/Calendar/reports_by_date.php?view=c&month=13&year=2022

Soybean and Corn Advisor

2022/23 Brazil Corn Estimate Unchanged at 125.5 Million Tons

2022/23 Brazil Soybean Estimate Unchanged at 151.0 Million Tons

2022/23 Argentina Soybean Estimate Lowered 2.0 mt to 45.0 Million

2022/23 Argentina Corn Estimate Unchanged at 47.0 Million Tons

Japan's use for corn in animal feed

	Oct-22	Sep-22	Oct-21
Total Shipments	2,022,343	1,968,237	2,016,369
Main Ingredients			
Corn	46.5%	46.6%	46.9%
Sorghum	1.0%	1.0%	1.1%
Wheat	2.1%	2.1%	2.1%
Barley	4.0%	4.0%	3.8%

Source: Japan AgMin, Reuters & FI

Macros

TC Delays Full Restart Of Keystone Pipeline, Targets Dec. 28-29

BoJ Keeps Monetary Policy Steady

- Maintains Short-Term Interest Rate Target At -0.1%
- Maintains 10-Year JGB Yield Target Around 0%

US Housing Starts Nov: 1427K (est 1400K; prevR 1434K)

US Building Permits Nov: 1342K (est 1480K; prevR 1512K)

US Housing Starts (M/M) Nov: -0.5% (est -1.8%; prevR -2.1%)

US Building Permits (M/M) Nov: -11.2% (est -2.1%; prevR -3.3%)

Canadian Retail Sales (M/M) Oct: 1.4% (est 1.5%; prevR -0.6%)

Canadian Retail Sales Ex Auto (M/M) Oct: 1.7% (est 1.4%; prevR -0.8%)

Philadelphia Fed Non-Manufacturing Regional Business Activity Index -17.1 In Dec Vs -13.6 In Nov

Philadelphia Fed Non-Manufacturing Firm-Level Business Activity Index 3.4 In Dec Vs -2.6 In Nov

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Philadelphia Fed Non-Manufacturing New Orders Index -6.1 In Dec Vs -6.3 In Nov

Philadelphia Fed Non-Manufacturing Full-Time Employment Index 3.4 In Dec Vs 10.0 In Nov

Philadelphia Fed Wage And Benefit Cost Index 42.9 In Dec Vs 41.5 In Nov

98 Counterparties Take \$2.159 Tln At Fed Reverse Repo Op (prev \$2.135 Tln, 95 Bids)

Corn

- CBOT corn futures traded higher as computer model forecasts vary for Argentina's two rain events over the next week. Christmas is generally thought to be the pivot point for Argentina crop production. Uncertainty over the long term (January forecast) is keeping traders on edge. Many crop production forecasts have been slashed already for soybeans, and corn could be next. Argentina is expected to get 0.30-1.50" rain later this week (Thur-Sun) , which is badly needed as 62 percent of the soybean crop had been planted and corn was 63 percent complete.
- Recession concerns were renewed. The US is expected to roll out a 1.7 trillion dollar spending bill. The 4000+ page bill was passed by the House. US housing data was better than expected exception longer term outlook with building permits coming in much lower than expected.
- The US will see a major storm later in the work week accompanied by cold temperatures which should support feed demand. More snow could fall bias west over the weekend. US Midwest temperatures in the second week will be above average.
- Anec sees Brazil December corn exports reaching 6.579 million tons from 6.715 million previous. Reuters shipping data suggests 1.15 million tons of Brazilian corn is booked by China and will ship over the next 30 days (17 vessels). 44 million tons of corn could be exporter by Brazil, according to Anec.
- Ukraine may see a 22 percent decrease in 2023 grain plantings to 8.7 million hectares, according to UBN media outlet, but oilseeds could see a 32 percent increase to 9.7 million hectares - Ukrainian Agribusiness Club. Grain production may end up near 34 million tons, a 37 percent decrease from 2022.
- There is some talk over US gasoline demand (below pre pandemic levels) and low ethanol blending rates along with poor margins and cold temperatures slowing ethanol production into early 2023. A poor start of the corn crop year for industrial demand may prompt USDA to trim usage when they update S&D figures mid-January. https://www.spglobal.com/commodityinsights/en/market-insights/latest-news/agriculture/121922-feature-ethanol-plants-in-us-to-face-hard-choices-in-2023?utm_campaign=oktopost-global-agriculture-news&utm_content=oktopost-twitter&utm_medium=social&utm_source=twitter
- January options expire Friday.
- A Bloomberg poll looks for weekly US ethanol production to be down 20,000 thousand barrels to 1041k (1023-1059 range) from the previous week and stocks down 20,000 barrels to 24.405 million.
- (Bloomberg) -- The US hog herd as of Dec. 1 seen falling 1.5% from a year earlier to 73.31m head, according to the average in a Bloomberg Survey of seven analysts.
The USDA is scheduled to release its quarterly estimates at 3pm ET on Dec. 23
- Bloomberg: LIVESTOCK SURVEY: US Cattle on Feed Placements Seen Falling 4.6%
November placements onto feedlots seen falling y/y to 1.88m head, according to a Bloomberg survey of ten analysts. That would be the third y/y decline in a row after falling 6.1% in October.

U of I: China and the World's Increasing Need for Cropland

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Zulauf, C. "China and the World's Increasing Need for Cropland." *farmdoc daily* (12):192, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, December 19, 2022.

CATTLE ON FEED ESTIMATES (1,000 HEAD, PERCENT OF A YEAR AGO)

Item	Actual	Estimates	Average of Estimates	Range of Estimates
	2021	2022		
Nov. 1 On Feed (Ending Inventory)	11,948	11,706	NA	NA
Placed on Feed during Nov.	1,967	1,888	95.8%	91.8-98.0%
Fed Cattle Marketed during Nov.	1,869	1,890	100.9%	99.9-101.3%
Dec. 1 On Feed (Ending Inventory)	11,985	11,649	97.2%	96.5-98.0%

Source: Reuters, USDA and FI Placements and Sales estimates in million head are derived using Reuters average %

Export developments.

- None reported

US Weekly Petroleum Status Report - Ethanol

	Ethanol Production		Change		Ethanol Stocks		Change		Days of Inv.
	FI Production Est.	Mbbl	Last Week	Last Year	FI Stocks Est.	Mbbl	Last Week	Last Year	
10/21/2022		1033	17	-6.6%		22,291	447	11.9%	21.1
10/28/2022		1040	7	-6.1%		22,232	-59	10.4%	21.4
11/4/2022		1051	11	1.2%		22,192	-40	9.4%	21.2
11/11/2022		1011	-40	-4.6%		21,298	-894	6.1%	22.0
11/18/2022		1041	30	-3.5%		22,829	1531	13.2%	20.5
11/25/2022		1018	-23	-1.6%		22,934	105	13.0%	22.4
12/2/2022		1077	59	-1.2%		23,257	323	13.6%	21.3
12/9/2022		1061	-16	-2.4%		24,409	1152	16.9%	21.9
12/16/2022	UNCH to -5				+100+ to +300				

Source: EIA and FI

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Corn	Change	Oats	Change	Ethanol	Settle			
MAR3	652.00	4.75	MAR3	338.00	4.75	DEC2	2.17	Spot DDGS IL
MAY3	652.50	4.50	MAY3	335.75	3.00	JAN3	2.17	NYM Chi. ETH
JUL3	646.50	3.50	JUL3	336.00	3.00	FEB3	2.18	+ Corn
SEP3	609.00	1.75	SEP3	330.25	1.50	MAR3	2.20	Ethanol Crush
DEC3	596.25	1.00	DEC3	337.00	0.50	APR3	2.21	1.58
MAR4	604.50	1.00	MAR4	329.25	0.50	MAY3	2.21	

Soybean/Corn	Ratio	Spread	Change	Wheat/Corn	Ratio	Spread	Change	
MAR3	MAR3	2.27	827.25	11.00	MAR3	1.15	97.75	(3.50)
MAY3	MAY3	2.27	830.00	10.75	MAY3	1.16	104.50	(4.25)
JUL3	JUL3	2.30	838.25	10.75	JUL3	1.18	115.00	(3.75)
SEP3	SEP3	2.32	804.50	8.50	SEP3	1.26	160.00	(1.25)
NOV3	DEC3	2.33	792.25	6.50	DEC3	1.31	184.25	(1.00)
MAR4	MAR4	2.29	780.00	6.25	MAR4	1.30	182.00	(2.25)

US Corn Basis & Barge Freight

Gulf Corn	BRAZIL Corn Basis	Chicago	Memphis-Cairo Barge Freight (offer)
JAN +106 / 112 h up2/unch	JAN +100 / 120 z unch	Toledo	700 unchanged
FEB +105 / 110 h up2/up3	JLY +45 / 50 n unch/dn10	Decatur	650 unchanged
MCH +99 / 101 h up12/dn2	AUG +70 / 85 u unch	Dayton	650 unchanged
APR +89 / 91 k up2/dn1	0	Cedar Rapids	
MAY +87 / 89 k dn2/dn3		Burns Harbor	
USD/ton: Ukraine Odessa \$ 200.00			
US Gulf 3YC Fob Gulf Seller (RTRS) 312.6 309.1 305.5 302.8 298.9 296.2			
China 2YC Maize Cif Dalian (DCE) 404.4 397.5 394.3 393.8 396.8 397.5			
Argentina Yellow Maize Fob UpRiver 273.9 294.3 - 294.3 - -			

Source: FI, DJ, Reuters & various trade sources

Updated 12/6/22

March corn \$6.00-\$7.15 range. May \$5.80-\$7.10

Soybeans

- CBOT soybeans, soybean meal and soybean oil were all higher from a weaker USD and unfavorable South American weather. There was talk some of the weather models for Argentina turned drier. Traders will be watching the upcoming rainfall for Argentina later this week. Note long term models are not promising.
- Chicago soybean meal basis was down \$2.00/short ton to 6 under. KC, Missouri was up \$5 to 5 under.
- Interior US soybean basis was a little firmer in the east and flat in the west, according to Reuters.
- European Union soybean imports in the 2022-23 season (July – June) reached 5.06 million tons by December 18, against 6.08 million previous season. Rapeseed imports reached 3.27 million tons, compared with 2.33 million ton a year earlier. Soybean meal imports were 7.36 million tons versus 7.47 million tons prior season.
- AmSpec reported Malaysian palm oil exports for the 1-20 December period at 921,811 tons, about unchanged from the previous period month earlier.
- China November soybean imports were 7.35 million tons, down 14 percent from year ago. Of that, 3.38 million tons were from the US, down from 3.63 million year earlier. Brazil supplied 2.45 million tons, down 32.3%. Jan-Nov total China soybean imports were 23.01 million tons, down from 26.2 million previous year. China imports from Argentina reached 1.15 million tons during November.

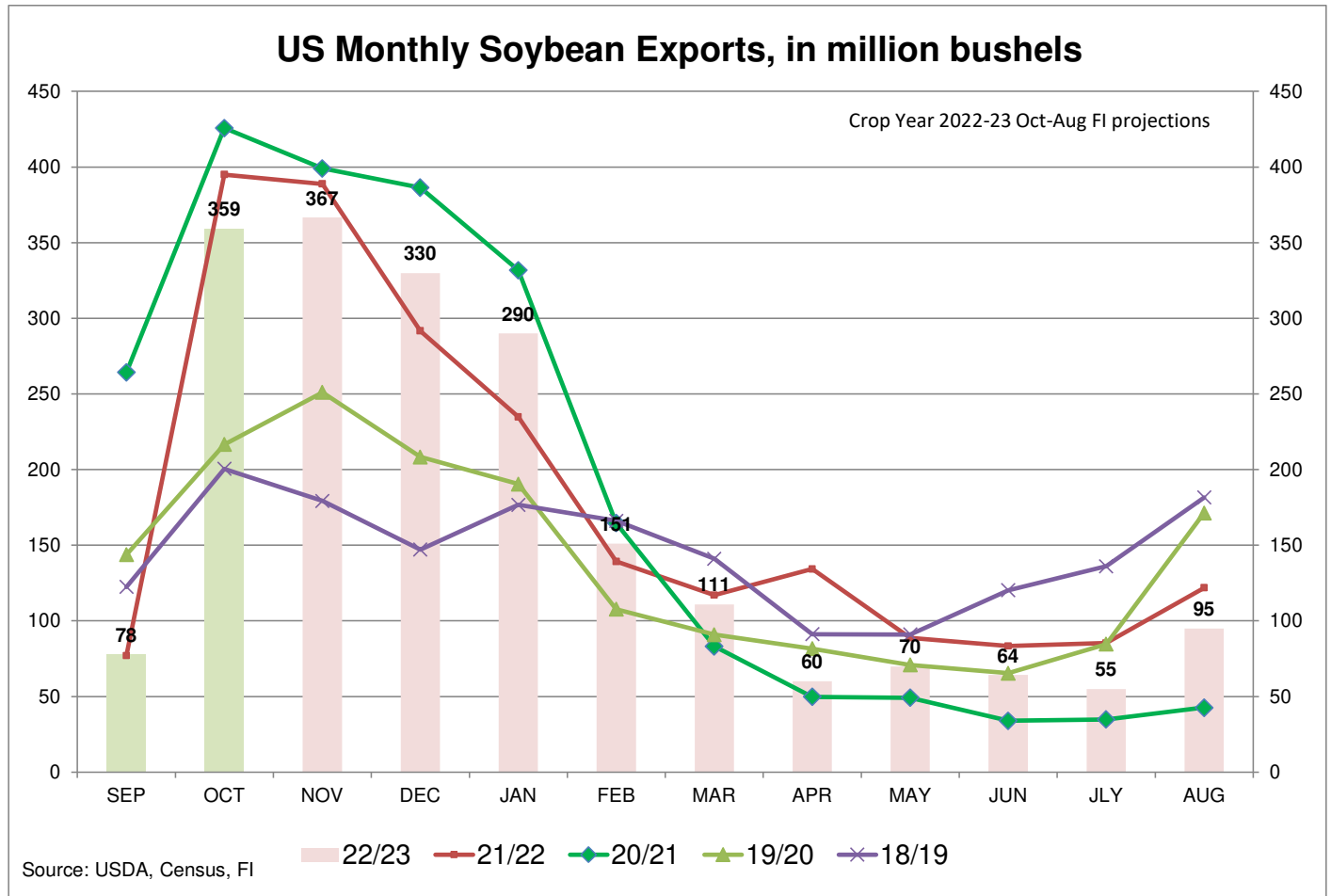
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- Anec sees Brazil December soybean exports reaching 1.750 million tons from 1.772 million previous. Meal exports were seen at 1.523 million tons from 1.599 million tons previous.
- US soybean exports improved during the November through mid-December period. Since September 1, US soybean exports to China reached 17.3 million tons, below 17.7 million comparable week year ago. We raised our export forecast for the 2022-23 season to 2.030 billion bushels from 1.990 billion previous, below USDA's 2.045 billion bushels and compares to 2.158 billion year ago.



We lowered out US soybean oil yield to 11.65 from above 11.70 previous, based on the recent November NOPA crush report, and may slightly adjust it in January after the NASS October crush report. Below is a table of October NOPA crush versus NASS.

NOVEMBER NOPA OIL YIELD VERSUS USDA CROP-YEAR YIELD

Oil Yield	NOPA	CR USDA Yield	Dif.
Nov-02	11.34	11.37	0.03
Nov-03	11.13	11.21	0.08
Nov-04	11.22	11.33	0.11
Nov-05	11.59	11.67	0.08
Nov-06	11.19	11.30	0.11
Nov-07	11.49	11.54	0.05
Nov-08	11.26	11.36	0.10
Nov-09	11.04	11.09	0.05
Nov-10	11.48	11.57	0.09
Nov-11	11.31	11.48	0.17
Nov-12	11.64	11.82	0.18
Nov-13	11.53	11.67	0.14
Nov-14	11.10	11.24	0.14
Nov-15	11.54	11.61	0.07
Nov-16	11.55	11.59	0.05
Nov-17	11.46	11.43	-0.03
Nov-18	11.64	11.61	-0.03
Nov-19	11.53	11.46	-0.07
Nov-20	11.63	11.73	-0.02
Nov-21	11.76	11.85	-0.04
Nov-22	11.63	11.65	0.02
		Average	0.06
		Min	-0.07
		Max	0.18

Bold is forecast

Source: NOPA, USDA, and FI (bold = FI est.)

Export Developments

- Turkey seeks 24,000 tons of crude sunflower oil on December 23 for delivery between January 2 and February 15, 2023.

European Union Weekly Exports/Imports

	Season 2021-2022 (July - June)			2020/2021	2019/2020
<0#SEEDS-EU-STAT>	01Jul20 - 19Dec22			13Dec21	13Dec20
	IMPORT	WEEK	Y/Y	IMPORT	IMPORT
		VAR	%VAR		
Soybeans	4856	+137	-16%	5805	6664
Rapeseed	3149	+69	+37%	2300	3226
Sunflowerseed	1385	+50	+556%	211	554
Total seeds	9390	+256	+13%	8316	10444
Soymeal	7111	+163	+0%	7129	8412
Rapeseed meal	302	+12	-5%	319	197
Sunflowerseed meal	1060	+137	+37%	772	1068
Total meals	8473	+312	+3%	8220	9677
Soyoil	205	+4	-21%	260	246
Rapeseed oil	239	+7	-15%	280	144
Sunflowerseed oil	842	+39	+10%	768	806
Palm oil	1520	+37	-40%	2528	2867
Total oils	2806	+87	-27%	3836	4063
Total	20669	+655	+1%	20372	24184

Source: European Commission, Reuters, and FI

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Soybeans		Change	Soybean Meal		Change	Soybean Oil		Change
JAN3	1478.00	17.25	JAN3	451.70	2.60	JAN3	66.07	1.66
MAR3	1479.25	15.75	MAR3	448.60	2.50	MAR3	64.75	1.34
MAY3	1482.50	15.25	MAY3	441.70	2.20	MAY3	63.87	1.16
JUL3	1484.75	14.25	JUL3	437.30	2.10	JUL3	63.22	1.10
AUG3	1464.25	13.00	AUG3	429.90	1.20	AUG3	62.66	1.03
SEP3	1413.50	10.25	SEP3	419.10	0.00	SEP3	62.12	0.93
NOV3	1388.50	7.50	OCT3	407.30	(1.10)	OCT3	61.62	0.88

Soybeans	Spread	Change	SoyMeal	Spread	Change	SoyOil	Spread	Change
Jan-Mar	1.25	(1.50)	Jan-Mar	-3.10	(0.10)	Jan-Mar	-1.32	(0.32)

Electronic Beans Crush		Oil as %	Meal/Oil \$	Meal	Oil
Month	Margin	of Oil&Meal	Con. Value	Value	Value
JAN3	242.51	JAN3 42.24%	\$ 5,528	993.74	726.77
MAR3	219.92	MAR3 41.92%	\$ 6,010	986.92	712.25
MAY3	191.81	MAY3 41.96%	\$ 5,848	971.74	702.57
JUL3	172.73	JUL3 41.96%	\$ 5,798	962.06	695.42
AUG3	170.79	AUG3 42.16%	\$ 5,394	945.78	689.26
SEP3	191.84	SEP3 42.57%	\$ 4,638	922.02	683.32
OCT3/NOV3	185.38	OCT3 43.07%	\$ 3,758	896.06	677.82
NOV3/DEC3	178.89	DEC3 43.06%	\$ 3,760	892.54	674.85
JAN4	168.41	JAN4 43.06%	\$ 3,728	888.14	671.77
MAR4	163.09	MAR4 43.17%	\$ 3,542	879.56	668.03

US Soybean Complex Basis	
DEC +145 / 151 f up3/up1	DECATUR +20 f unch
JAN +133 / 144 f up2/dn4	IL SBM (truck) F-9 12/20/2022 SIDNEY +5 f unch
FEB +103 / 143 h up2/dn2	CIF Meal F+40 12/20/2022 CHICAGO -10 f unch
MCH +100 / 118 h unch/dn2	Oil FOB NOLA 500 12/16/2022 TOLEDO -20 f unch
APR +88 / 110 k unch	Decatur Oil 450 12/16/2022 BRNS HRBR -65 f unch
	C. RAPIDS -30 f unch

Brazil Soybeans Paranagua fob		Brazil Meal Paranagua		Brazil Oil Paranagua	
JAN +85 / +140 x unch		FEB +23 / +29 f	dn1/dn3	JAN -750 / -600 f	dn50/unch
FEB +68 / +80 h up3/up5		MCH +16 / +19 h	up1/dn4	FEB -770 / -550 f	up10/unch
MCH +44 / +50 h up3/unch		APR +3 / +8 k	dn1/unch	MCH -830 / -600 h	up20/unch
APR +34 / +38 k up3/unch		MAY +3 / +8 k	dn1/unch	APR na	nq
MAY +44 / +48 k dn1/unch		JUNE +2 / +5 n	dn1/unch	MAY -850 / -700 k	unch
Argentina meal (ST)	499 50.3	Argentina oil	Spot fob	58.4	-6.33

Source: FI, DJ, Reuters & various trade sources

Updated 12/20/22

Soybeans – January \$14.50-\$15.10, March \$14.15-\$15.25

Soybean meal – January \$445-\$485, March \$4.00-\$500

Soybean oil – January 62.00-68.00 range, March 55.00-70.00

Wheat

- US wheat futures ended mostly higher after opening mixed. Higher corn and soybeans lent support. A major storm system will hit the Great Plains starting Wednesday, boosting soil moisture. Not all winter growing areas have enough snow coverage. KS, TX and OK are at risk. Several ships are ready to leave

Terry Reilly Grain Research

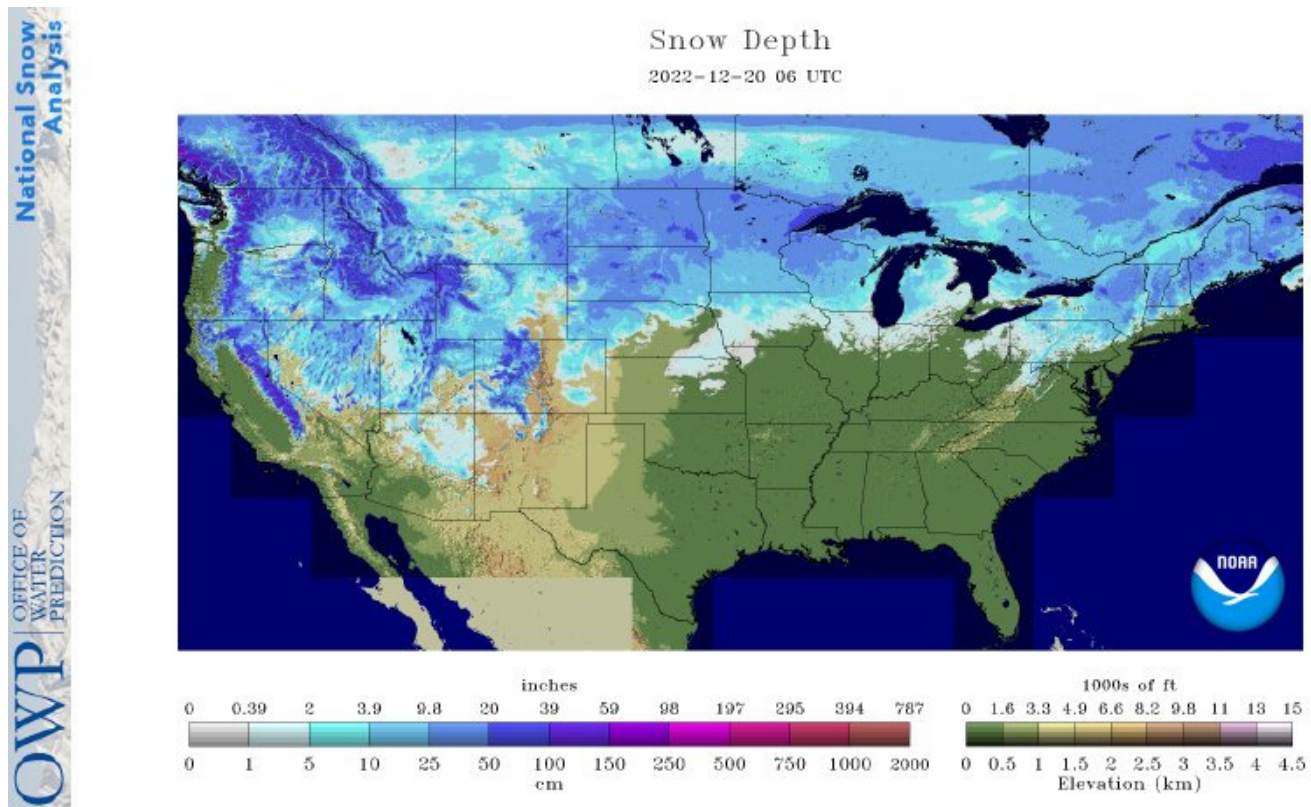
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Ukraine this week. There are some delays but that should improve by the end of this week, with at least 950,000 tons sailing.

- The US will see very cold temperatures later this week (Wed-Thur), potentially damaging winter crops. Some areas of the Great Plains could see temperatures as low as -15F. High winds accompanies with this system will create blizzard conditions, possibly with some snow blown off fields. The storm is expected to reach the Midwest by Thursday.
- Paris March wheat was 0.75 euro lower at 296.50 euros a ton, near a 9-month low.
- EU soft wheat exports reached 15.70 million tons through December 18, above 14.88 million for the same week in 2021-22.



European Union Weekly Exports/Imports

<0#GRA-EU-STAT>	Season 2021-2022 (July - June)				Season 2020-2021			
	===== 01Jul20 - 19Dec22 ==		===== 01Jul19 - 13Dec21					
	EXPORT	WEEK VAR	IMPORT	WEEK VAR	EXPORT	%VAR	IMPORT	%VAR
A.1 Soft wheat	15380	+243	3536	+125	14513	+6%	1304	+171%
A.2 Wheat flour (*)	212	+8	142	+8	242	-12%	120	+18%
B.1 Durum	324	+1	450	+38	257	+26%	738	-39%
B.2 Durum wheat meal	74	+6	2	+0	119	-38%	1	+100%
C. TOTAL A+B	15990	+258	4130	+171	15131	+6%	2163	+91%
D.1 Barley	2763	+10	1043	+46	4739	-42%	460	+127%
D.2 Malt	1281	+52	11	+0	1313	-2%	14	-21%
E. Maize	602	+9	13131	+448	2756	-78%	6025	+118%
F.1 Rye	68	+0	45	+1	80	-15%	94	-52%
G. Oat	24	+1	89	+7	53	-55%	17	+424%
I. TOTAL D-H	4742	+72	14336	+502	8948	-47%	6616	+117%

Source: European Commission, Reuters, and FI

Export Developments.

- Taiwan Flour Millers' Association seeks 56,000 tons of grade 1 US milling wheat on Dec. 22 for shipment from the U.S. Pacific Northwest coast between Feb. 10 and Feb. 24, 2023. Wheat types sought include dark northern spring, hard red winter and white wheat.
- Japan seeks 144,441 tons of wheat later this week from the US and Canada for arrival by March 5.

Japan food wheat import details are via Reuters as follows (in tons):

COUNTRY	TYPE	QUANTITY
U.S.	Hard Red Winter(Semi Hard)	28,400 *
U.S.	Hard Red Winter(Semi Hard)	11,270 **
U.S.	Dark Northern Spring(protein minimum 14.0 pct)	13,810 **
U.S.	Dark Northern Spring(protein minimum 14.0 pct)	30,401 *
Canada	Western Red Spring(protein minimum 13.5 pct)	34,420 *
Canada	Western Red Spring(protein minimum 13.5 pct)	26,140 *

Shipments: *Loading between Jan 16, 2023 and Feb 15, 2023

**Arriving by Mar 5, 2023

Source: Japan AgMin, Reuters and FI

- Results awaited: Iraq seeks 50,000 tons of milling wheat on Sunda, December 18.

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Rice/Other

- South Korea's Agro-Fisheries & Food Trade Corp. seek 83,672 tons of rice from the United States for arrival in South Korea in 2023 between Feb. 1 and June 30.
- Bangladesh seeks 50,000 tons of rice on December 21 for shipment with 40 days of contract signing.
- Bangladesh also seeks 50,000 tons of rice on December 27.

Chicago Wheat		Change	KC Wheat		Change	MN Wheat		Settle	Change
MAR3	749.75	1.25	MAR3	846.00	2.50	MAR3	916.75		8.50
MAY3	757.00	0.25	MAY3	840.00	2.50	MAY3	909.25		6.75
JUL3	761.50	(0.25)	JUL3	832.75	1.75	JUL3	905.25		5.50
SEP3	769.00	0.50	SEP3	834.75	1.75	SEP3	892.00		5.50
DEC3	780.50	0.00	DEC3	840.50	2.75	DEC3	897.00		5.50
MAR4	786.50	(1.25)	MAR4	838.75	2.75	MAR4	893.75		0.00
MAY4	786.50	(1.50)	MAY4	833.75	3.25	MAY4	0.00		0.00
Chicago Rice		Change							
JAN3	17.77	0.645	MAR3	18.06	0.590	MAY3	18.33		0.590
US Wheat Basis									
Gulf SRW Wheat			Gulf HRW Wheat			Chicago mill		-25 z unch	
	DEC +125 / 150 h unch			JAN +160 h	unch		Toledo	-30 z unch	
	JAN +115 / 130 h unch			FEB +160 h	unch		PNW US Soft White 10.5% protein BID		
	FEB 110 // 125 h			MCH +160 h	unch		PNW Dec	845	-5.00
	0-Jan			APR +154 k	unch		PNW Jan	845	-5.00
	0-Jan						PNW Feb	849	-5.00
							PNW Mar	853	-5.00
Paris Wheat		Change	OI	OI Change	World Prices \$/ton		Change		
MAR3	297.00	(0.75)	152,070	(127)	US SRW FOB	\$331.90		\$1.90	
MAY3	294.75	(0.75)	88,514	847	US HRW FOB	\$376.00		\$0.20	
SEP3	278.00	0.00	61,722	341	Rouen FOB 11%	\$317.68		(\$3.25)	
DEC3	277.75	0.75	53,700	106	Russia FOB 12%	\$310.00		(\$4.00)	
EUR	1.0607				Ukr. FOB feed (Odessa)	\$280.00		\$0.00	
					Arg. Bread FOB 12%	\$487.49		\$1.38	

Source: FI, DJ, Reuters & various trade sources

Updated 12/16/22

Chicago – March \$7.00 to \$8.50

KC – March 8.00-\$9.50

MN – March \$8.50 to \$10.00

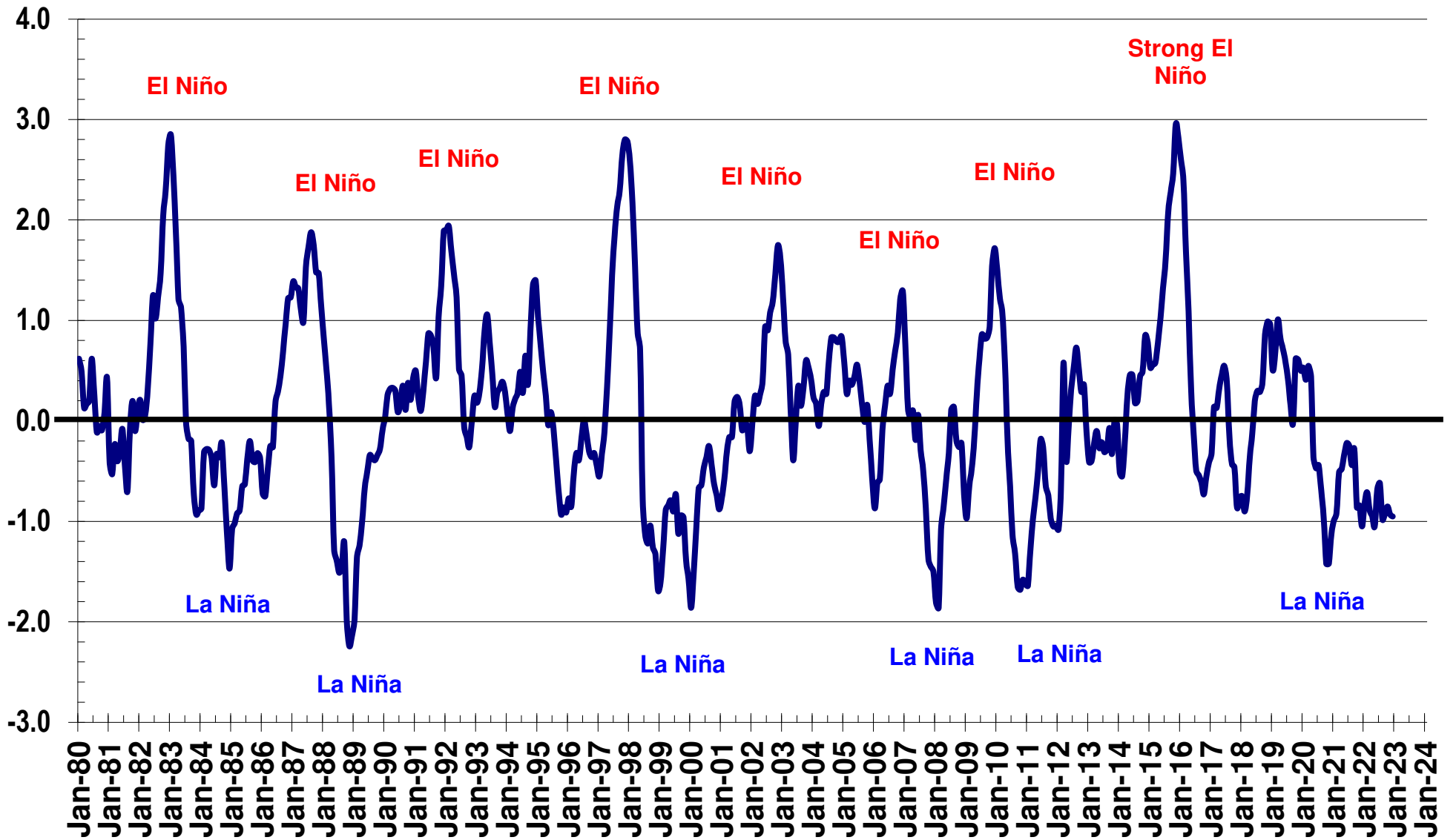
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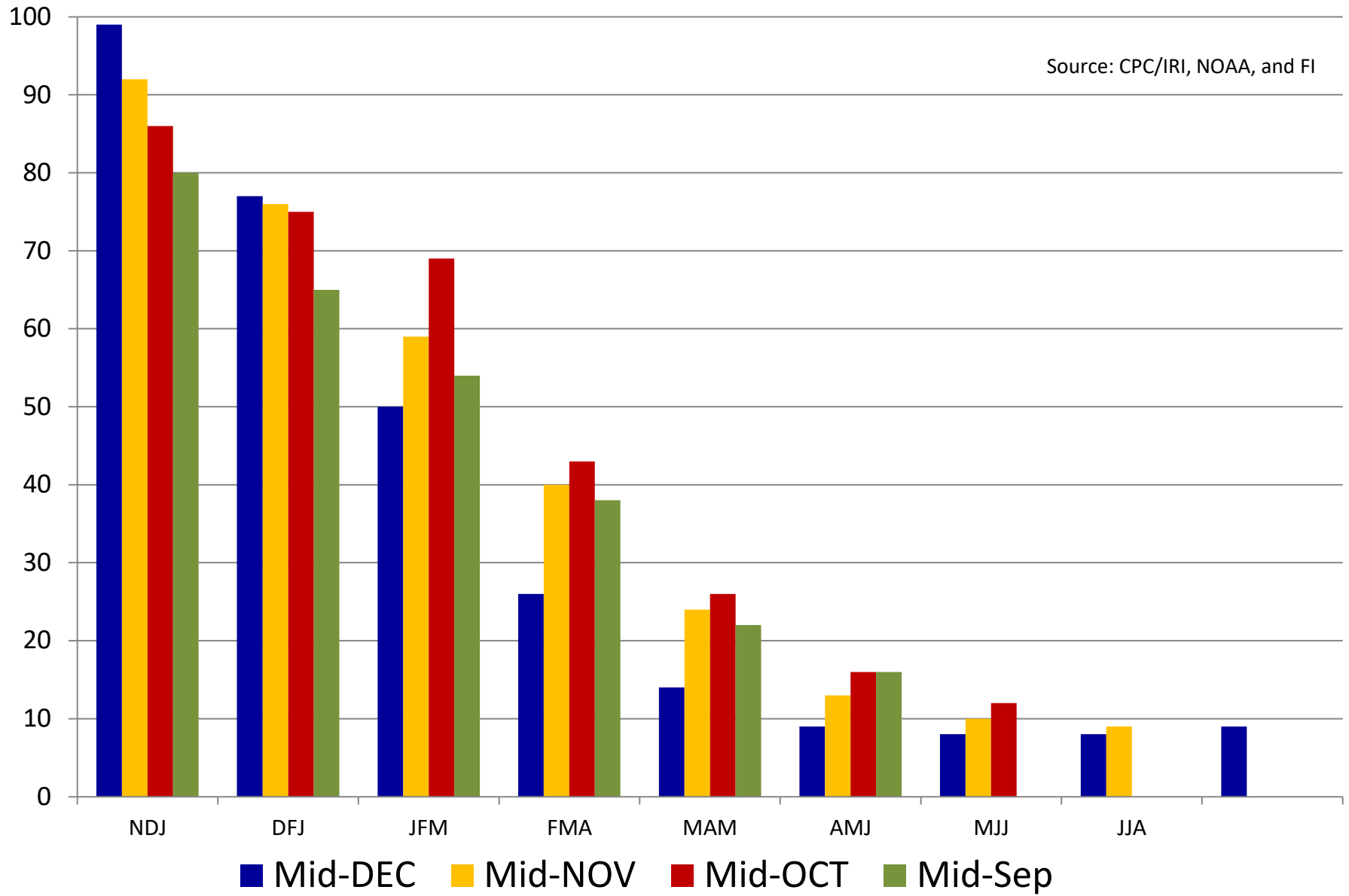
Eastern Pacific Sea-Surface Temperature Anomalies 3.4 through mid Nov.



Source: NOAA, FI Current month partial-from weekly data

La Nina % Probability

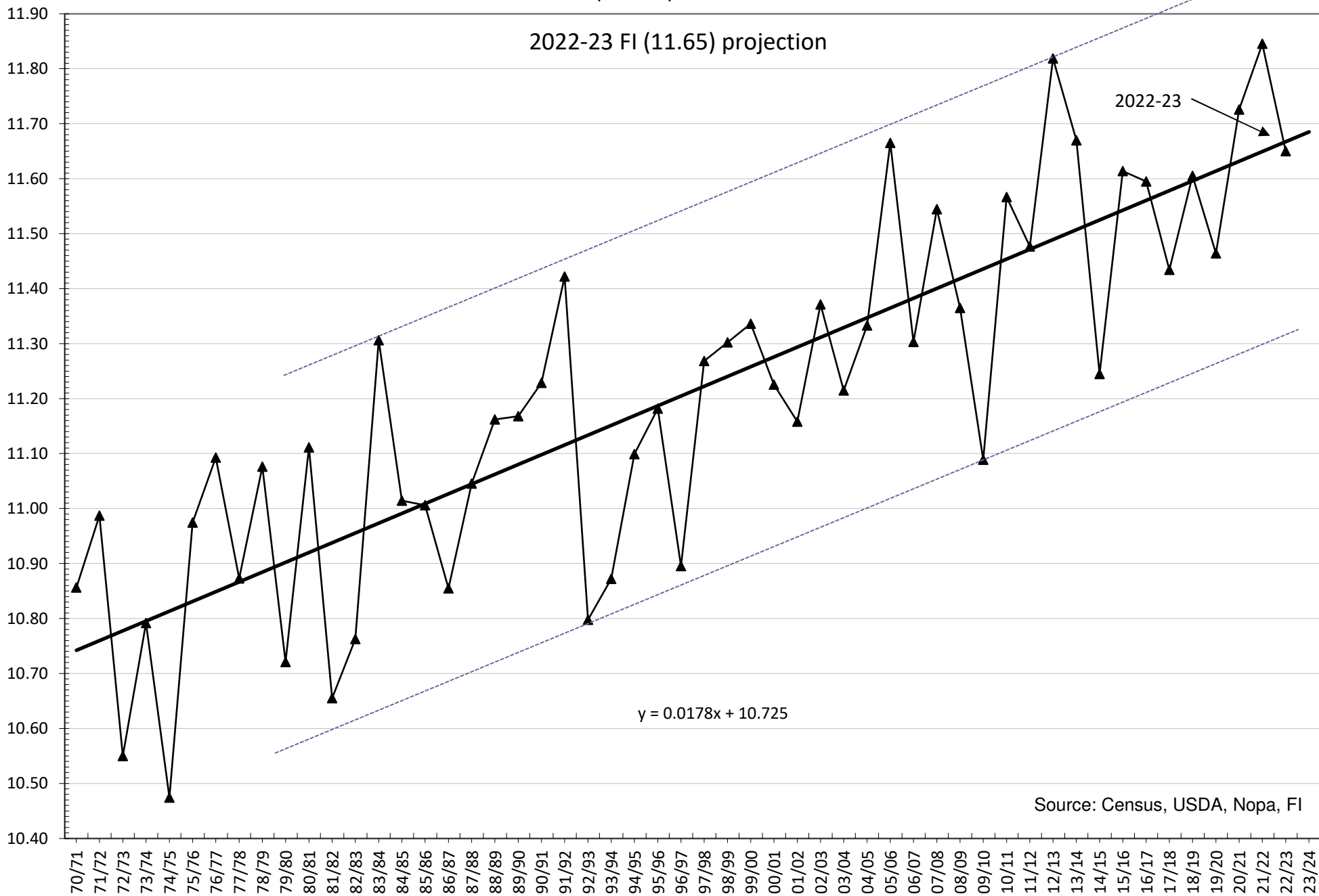
Source: CPC/IRI, NOAA, and FI



U.S. SOYBEAN OIL YIELD

pounds per bushel

2022-23 FI (11.65) projection



Source: Census, USDA, Nopa, FI

U.S. SOYBEAN OIL SUPPLY/USAGE BALANCE

(October-September)(million pounds)

	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	USDA Dec. 21/22	FI Proj. 22/23	USDA Dec. 22/23
BEGINNING STOCKS	3408	2674	2589	1655	1164	1854	1687	1711	2195	1775	1853	2131	1991	1991
PRODUCTION	18888	19740	19820	20130	21399	21950	22123	23772	24197	24911	25023	26143	26103	26310
IMPORTS	159	149	196	165	264	287	319	335	397	320	302	303	600	300
TOTAL SUPPLY	22455	22563	22555	21950	22827	24091	24129	25818	26590	27006	27177	28577	28694	28601
BIOFUEL* 19/20 - 21/22 RENEWABLE (FI)	1680	2738	4874	4689	5077	5040	5670	6199	7335	8658	8920	10348	7500	11600
FOOD, FEED, OTHER DOM. USAGE	14868	15772	13913	14220	13880	15122	14193	15181	15540	13659	14394	14465	14150	14000
EXPORTS	3233	1464	2164	1877	2014	2243	2556	2243	1940	2837	1731	1773	800	1100
TOTAL USAGE	19781	19974	20951	20786	20973	22404	22420	23623	24815	25154	25045	26586	26800	26700
ENDING STOCKS	2674	2589	1655	1164	1854	1687	1711	2195	1774	1853	2131	1991	1894	1901
STOCKS TO USE %	13.5	13.0	7.9	5.6	8.8	7.5	7.6	9.3	7.1	7.4	8.5	7.5	7.1	7.1
OCT-SEP CRUSH (mil bu)	1633	1720	1677	1725	1903	1890	1908	2079	2085	2173	2134	2207	2241	2245
AVG. ANNUAL YIELD	11.57	11.48	11.82	11.67	11.24	11.61	11.59	11.43	11.61	11.46	11.73	11.85	11.65	11.72

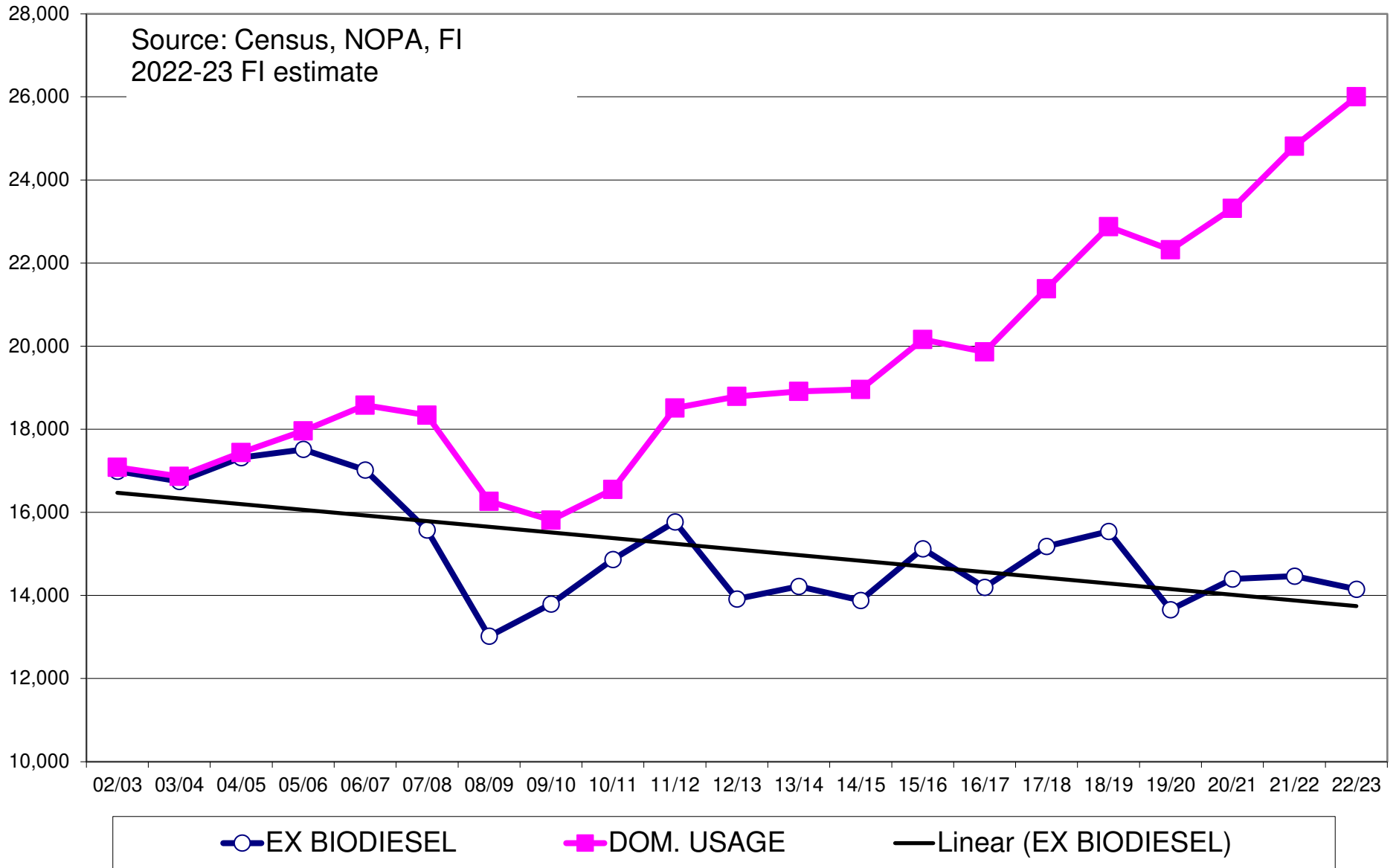
Source: USDA, Census, NOPA, and FI. *USDA includes biodiesel and renewable (FI attempts to break it out)

SOYBEAN OIL SUPPLY/USAGE BALANCE (MILLION POUNDS) (FI Estimates-Not USDA)

FI Estimates				OCT			JAN			APR/			JLY				
<u>2021-22</u>	OCT	NOV	DEC	DEC	JAN	FEB	MAR	MAR	APR	MAY	JUN	JUN	JLY	AUG	SEP	SEP	YEAR
BEG. STKS.	2,131	2,386	2,406	2,131	2,466	2,500	2,566	2,466	2,434	2,424	2,384	2,434	2,316	2,228	2,104	2,316	2,131
PROD.	2,348	2,235	2,324	6,907	2,277	2,064	2,278	6,619	2,143	2,159	2,069	6,370	2,158	2,096	1,993	6,247	26,143
IMPORTS	36	34	32	102	16	22	22	60	24	25	24	73	25	21	23	69	303
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TOT. SUP.	4,515	4,656	4,762	9,140	4,759	4,586	4,866	9,145	4,600	4,608	4,477	8,877	4,499	4,345	4,119	8,631	28,578
BIOFUELS	832	818	938	2,588	791	741	908	2,440	839	856	810	2,505	956	925	934	2,815	10,348
EX-BIODIESEL	1,239	1,203	1,193	3,635	1,184	1,043	1,258	3,485	1,169	1,294	1,278	3,741	1,196	1,259	1,149	3,605	14,465
TOT.DOM.	2,071	2,021	2,131	6,223	1,975	1,784	2,166	5,925	2,008	2,150	2,088	6,246	2,152	2,184	2,083	6,420	24,813
EXPORTS	57	229	165	452	284	236	266	786	168	74	73	315	118	57	45	220	1,773
TOT. USE	2,128	2,250	2,296	6,674	2,260	2,020	2,432	6,711	2,176	2,224	2,162	6,561	2,270	2,241	2,128	6,640	26,587
END STKS.	2,386	2,406	2,466	2,466	2,500	2,566	2,434	2,434	2,424	2,384	2,316	2,316	2,228	2,104	1,991	1,991	1,991
NOPA stocks	1,834	1,832	2,031		2,026	2,059	1,908		1,814	1,774	1,767		1,684	1,565	1,459		
NOPA % of NASS	76.9%	76.2%	82.4%		81.0%	80.3%	78.4%		74.8%	74.4%	76.3%		75.6%	74.4%	73.3%		
QTR S-T-U %	39.30	54.95	54.25	54.25	36.73	39.03	21.87	21.87	36.58	34.90	35.29	35.29	33.48	31.52	29.99	29.99	
crush mil bu	196.9	190.6	198.2	586	194.3	174.4	192.9	562	180.9	180.9	174.1	536	181.3	175.1	167.6	524	2,207
oil yield	11.92	11.73	11.73	11.79	11.72	11.84	11.81	11.79	11.85	11.93	11.88	11.89	11.90	11.97	11.89	11.92	11.85
*BIOFUELS JAN 2020 FORWARD USES EIA NEW REPORT AND INCLUDED RENEWABLE																	
FI Estimates				OCT			JAN			APR/			JLY				
<u>2022-23</u>	OCT	NOV	DEC	DEC	JAN	FEB	MAR	MAR	APR	MAY	JUN	JUN	JLY	AUG	SEP	SEP	YEAR
BEG. STKS.	1,991	2,094	2,155	1,991	2,340	2,573	2,586	2,340	2,509	2,578	2,515	2,509	2,367	2,212	2,085	2,367	1,991
PROD.	2,338	2,197	2,294	6,830	2,306	2,083	2,273	6,663	2,153	2,145	2,083	6,381	2,170	2,079	1,980	6,229	26,102
IMPORTS	30	32	45	107	44	46	59	149	55	63	64	181	56	57	51	164	600
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TOT. SUP.	4,359	4,323	4,494	8,928	4,690	4,702	4,918	9,152	4,716	4,786	4,662	9,071	4,593	4,347	4,116	8,760	28,694
BIOFUELS	927	888	968	2,783	874	824	1,017	2,715	977	1,076	994	3,046	1,122	1,102	1,081	3,306	11,850
EX-BIODIESEL	1,315	1,184	1,090	3,589	1,097	1,175	1,292	3,565	1,090	1,161	1,261	3,513	1,224	1,138	1,121	3,483	14,150
TOT.DOM.	2,242	2,072	2,058	6,372	1,971	1,999	2,309	6,280	2,067	2,237	2,256	6,559	2,346	2,240	2,202	6,788	26,000
EXPORTS	23	97	95	215	146	117	100	363	71	35	39	145	35	23	19	77	800
TOT. USE	2,265	2,168	2,154	6,587	2,117	2,116	2,410	6,643	2,137	2,272	2,295	6,704	2,382	2,262	2,221	6,865	26,799
END STKS.	2,094	2,155	2,340	2,340	2,573	2,586	2,509	2,509	2,578	2,515	2,367	2,367	2,212	2,085	1,895	1,895	1,895
NOPA stocks	1,528	1,630	1,734		1,904	1,918	1,868		1,913	1,866	1,758		1,643	1,548	1,407		
NOPA % of NASS	73.0%	75.7%	74.1%		74.0%	74.2%	0.74474		74.2%	0.74214	74.3%		74.3%	74.2%	74.3%		
QTR S-T-U %	31.56	32.84	35.53	35.53	39.95	40.50	37.76	37.76	38.70	36.88	35.31	35.31	31.83	30.04	27.60	27.60	
crush mil bu	196.6	190.7	199.2	586	199.2	179.6	195.4	574	185.2	183.8	178.5	548	185.5	177.4	169.5	532	2,241
oil yield	11.89	11.52	11.52	11.65	11.57	11.60	11.64	11.60	11.62	11.67	11.67	11.65	11.70	11.72	11.68	11.70	11.65

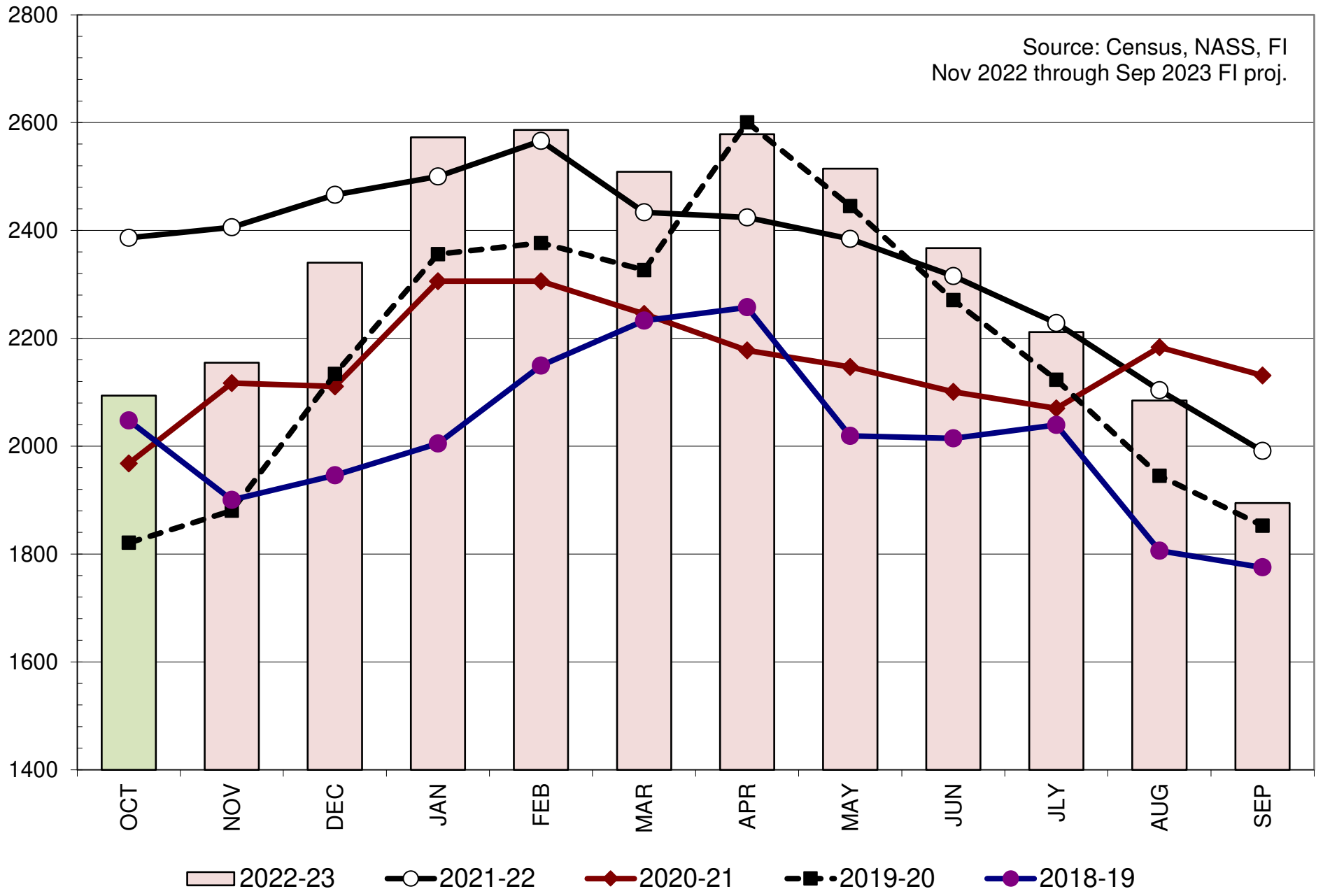
Source: USDA, Census, NOPA, EIA, FI May 2015 to present takes into account USDA NASS Fats & Oils report data. Bolf FI fcst.

Soybean Oil Domestic Usage, Million Pounds, October-September



US SOYBEAN OIL STOCKS, Million Pounds

Source: Census, NASS, FI
Nov 2022 through Sep 2023 FI proj.



Source: Census, Citi

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