

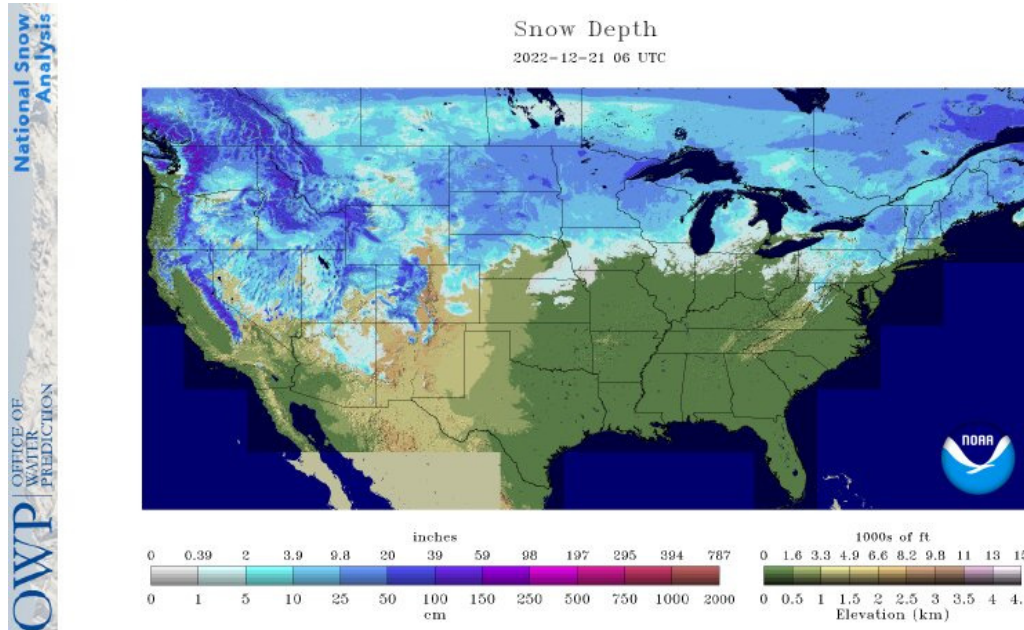


Main CBOT agriculture markets open Tuesday morning after Christmas. Other selected markets do open Monday night. <https://www.cmegroup.com/tools-information/holiday-calendar.html>

Official US winter starts today. The intensity of the snow for the US winter storm has been downgraded but temperatures will remain brutally cold. Around noon there was a weather forecaster suggesting the storm will be fast moving across the Midwest, decreasing the amount of accumulated snow. The unusually cold temperatures pose a risk for US winter grain damage over the next week for uncovered areas. Lack of snow coverage stretches across a majority of Kansas, Texas, and Oklahoma. As of 1:10 pm CT, the USD was up about 14 points, WTI crude up about \$2.08, and US equities higher. The soybean complex and grains opened higher supported by dry weather across southern South America and a surge in covid cases in China. Soybean oil turned lower on product spreading despite higher energy markets.

### Weather

Weather models are now predicting less than expected snow accumulations across the Great Plains and Midwest for today into Saturday. The jet stream may now keep the bulk of the rain bias southern US. The morning weather forecast turned slightly unfavorable for the US Great Plains. Midwest forecast is mostly unchanged. South America’s weather forecast is unchanged.

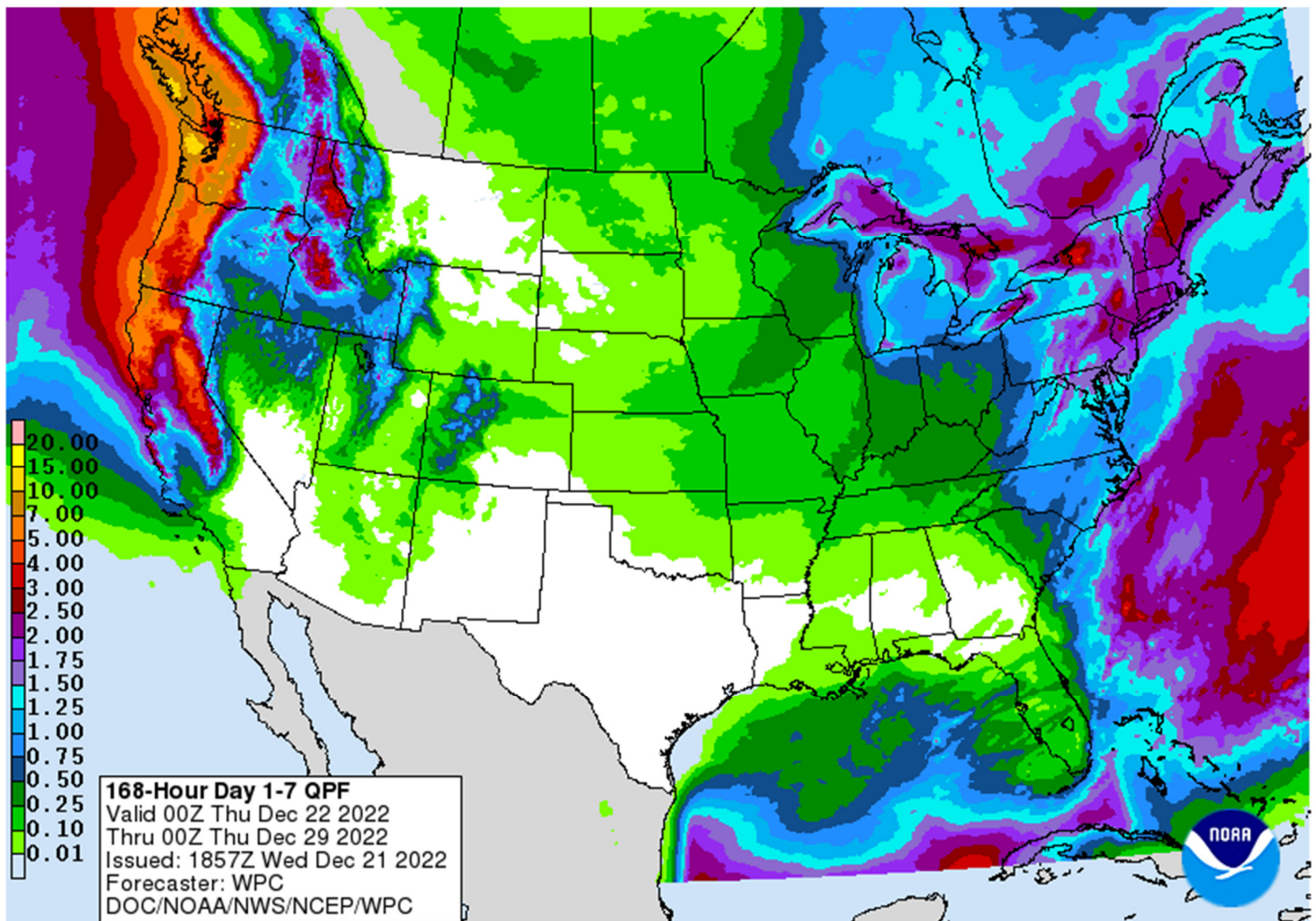


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**World Weather, INC.**

**MOST IMPORTANT WEATHER FOR THE COMING WEEK**

- Rain is expected in Argentina Thursday into Sunday offering some relief to dryness that has been occurring this week
  - Resulting rainfall is not likely to be enough to end drought, but some temporary relief is expected
    - Rainfall of 0.30 to 0.85 inch and local totals of 0.85 to nearly 1.50 inches is expected with coverage of 75% of the nation
  - Some showers will begin in the southwest today
- Rain overnight in Argentina was most significant from southern Cordoba into eastern La Pampa and far westernmost Buenos Aires
  - Rain totals through dawn today varied from 0.05 to 0.50 inch, although a local total of 1.18 inches occurred in southeastern Cordoba
  - Temperatures were still quite warm across the nation with 90-degree highs common
- Argentina weather next week will be a little milder with some showers popping up infrequently with light intensity
  - Some net drying is expected, but the dry down may be slowed by cooler temperatures and the infrequent shower activity

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- Southern Brazil will be dry through the weekend
  - Most areas from southern Mato Grosso and Paraguay into Rio Grande do Sul will receive restricted amounts of rain and temperatures will be briefly warm enough to accelerate drying
  - Rain will then evolve next week and sufficient amounts should occur to bring relief back to much of the region that driest out of the next several days
    - Not all of southern Brazil will do well with next week's rain and pockets of dryness are expected for a while favoring Rio Grande do Sul
- Northern Brazil weather will stay plenty wet over the next couple of weeks
  - Rain will fall frequently and significantly enough to maintain saturated soil and to possibly raise the risk of a little flooding
    - Areas from eastern Mato Grosso and southern Tocantins into Minas Gerais and will be wettest
      - Crop damage is not likely
- Brazil rainfall Tuesday was mostly concentrated on areas from Mato Grosso to Minas Gerais and a part northern and eastern Sao Paulo
  - Amounts varied greatly with more than 3.00 inches in central Minas Gerais and 2.43 inches in northeastern Sao Paulo
  - Most areas received 0.20 to 0.80 inch with local totals of 1.00 to 2.00 inches
  - Temperatures were cooler than usual in many areas
- Extremely cold temperatures will be impacting central parts of North America during through the weekend bringing all kinds of problems
  - Blizzard conditions are likely from the eastern U.S. Plains to the Great Lakes region tonight night into Friday
  - Snow will fall as far south as the Tennessee River Basin
  - Extreme low temperatures in the -30s and -20s Fahrenheit are likely in the northern Plains
  - Subzero-degree low temperatures will occur southward to the Texas Panhandle, central Oklahoma, central Illinois, and northern Indiana
  - Freezes will occur southward to South Texas and the entire central Gulf of Mexico Coast
  - Sugarcane will experience notable freezes in Louisiana
  - Fruits and vegetable crops will be damaged in South Texas
  - Citrus areas in Florida will be exposed to some frost and freezes, although it is unclear whether there is a viable threat to the crop yet – late weekend and early next week temperatures will be coldest
    - Upper 20s and 30s are quite likely
  - Wind speeds gusting between 30 and 60 mph will occur with the blizzard from eastern Nebraska and eastern Kansas through Iowa and northern Missouri to the Great Lakes region
  - Snowfall will range from 1 to 4 inches from the central Plains into the western Corn Belt and 3 to 8 inches with local totals to 10 inches or more will occur in the Great Lakes region
    - Snowfall of 1 to 3 inches will be possible in the northern Delta and a part of the Tennessee River Basin
  - Considerable blowing and drifting of snow is expected
  - Wind chill warnings will be issued for many areas and frost bite potentials will rise greatly
  - A huge increase in energy demand is expected in the central U.S. for a few days beginning today and lasting into the weekend
  - Cold air in the eastern United States is expected to be brief and not as potent as that in the central states
  - Livestock stress will be very high in the western Corn and soybean production areas
  - Strong warming is likely next week

- Southwestern U.S. hard red winter wheat areas may be left snow free or get a minimal amount of snow ahead of the bitter cold raising the potential for some crop damage
  - Less than 1 inch of snow will occur from southwestern Texas into the Texas Panhandle and western Oklahoma where there may be some risk of winterkill
- U.S. Midwest snow cover should be sufficient to protect winter crops from extreme temperatures through the weekend
- Strong warming is expected in the western United States this weekend and early next week with the warming trend spreading east across the nation during the balance of next week
  - The short duration of cold weather will limit the impact on supplemental heating fuel demand
- California precipitation will resume next week with waves of rain and mountain snow to bolster soil moisture and increase mountain snowpack for better runoff potentials in the spring
- U.S. Midwest, Delta, and southeastern states will get rain during the latter part of next week and into the first days of January as a couple of weather systems move through the eastern United States
- Western U.S. weather will trend cooler again next week and especially in the following weekend
- Europe temperatures are trending warmer and this will continue through the coming week with readings rising above normal in time
  - The warm weather will continue into early January
- Western, central and northern Europe will experience greater rainfall and a little snow during the coming week
  - Most of the precipitation will occur as rain with 1.00 to 2.50 inches and locally more possible by Tuesday in France, Germany, Belgium, Netherlands, and the U.K.
    - Heavy rain will continue to occur in northern Portugal and northwestern Spain into the weekend possibly expanding some flooding in the region
- Southern Europe precipitation will be more limited during the coming ten days and northern Europe's precipitation should diminish over time late next week and into the following weekend as well
- 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
- Waves of snow and rain will impact the western CIS over the next ten days bolstering soil moisture and raising snow depths for a higher risk of flooding in the spring
- India and China weather will be relatively quiet over the next couple of weeks with limited precipitation and seasonable temperatures
- A tropical cyclone may evolve in the Bay of Bengal during the coming week and it will need to be closely monitored for possible impact on India
- 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

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- North Africa weather will continue to include an erratic rainfall distribution over the next week to ten days
  - Greater precipitation is still needed especially in southwestern and northeastern Morocco, northwestern Algeria and Tunisia where recent rain has not been well distributed
- 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 +12.36 today and it will move higher over the next few days

Source: World Weather INC

## Bloomberg Ag Calendar

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 Tuesday morning, not Monday night as previously indicated**
- <https://www.cmegroup.com/tools-information/holiday-calendar.html>

Tuesday, Dec. 27:

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

Wednesday, Dec. 28:

- 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

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## USDA US Export Sales Projections in 000 Metric Tons

		Trade Estimates*	FI Estimates	Last Week		Year Ago
		12/15/2022	12/15/2022	Last Week	Last Week	12/16/2021
<b>Beans</b>	2022-23	<b>800-1250</b>	800-1200	2022-23	2943.4	811.5
	NC	<b>0-150</b>	0-50	NC	0.0	1.0
<b>Meal</b>	2022-23	<b>150-300</b>	150-300	Sales	209.7	Sales 300.1
	NC	<b>0-50</b>	0.0			
	Shipments	NA	150-250	Shipments	174.0	Shipments 397.5
<b>Oil</b>	2022-23	<b>0-10</b>	0-5	Sales	-0.2	Sales 109.5
	NC	<b>0-10</b>	0.0			
	Shipments	NA	0-5	Shipments	0.4	Shipments 4.6
<b>Corn</b>	2022-23	<b>625-900</b>	650-900	2022-23	958.9	982.9
	NC	<b>0-50</b>	0	NC	0.0	132.5
<b>Wheat</b>	2022-23	<b>200-500</b>	200-450	2022-23	469.0	425.5
	NC	<b>0-50</b>	0.0	NC	0.0	33.0

Source: FI & USDA \*Trade estimates provided by Reuters

n/c= New Crop

### Macros

105 Counterparties Take \$2.207 Tln At Fed Reverse Repo Op (prev \$2.159 Tln, 98 Bids)

US Existing Home Sales Change Nov: 4.09M (est 4.20M; prev 4.43M)

- Existing Home Sales (M/M): -7.7% (est -5.2%; prev -5.9%)

Sales down 35.4% year over year; tenth straight monthly decline

- Median Home Price (Y/Y) (USD): 370.7K or +3.5% (prev 379.1K or +6.6%)

US CB Consumer Confidence Dec: 108.3 (est 101.0; prev R 101.4)

- Present Situations: 147.2 (prev R 138.3)

- Expectations: 82.4 (prev R 76.7)

US MBA Mortgage Applications Dec 16: 0.9% (prev 3.2%)

US MBA 30-Yr Mortgage Rate Dec 16: 6.34% (prev 6.42%)

Canadian CPI NSA (M/M) Nov: 0.1% (est 0.0%; prev 0.7%)

Canadian CPI (Y/Y) Nov: 6.8% (est 6.6%; prev 6.9%)

Canadian CPI Core - Median (Y/Y) Nov: 5.0% (est 4.9%; prev 4.8%)

Canadian CPI Core - Trim (Y/Y) Nov: 5.3% (est 5.3%; prev 5.3%)

US DoE Crude Oil Inventories (W/W) 16-Dec: -5.895M (est +2.500M; prev +10.231M)

- Distillate: -242K (est +1.500M; prev +1.364M)

- Cushing: +853K (prev +426K)

- Gasoline: +2.530M (est +2.000M; prev +4.496M)

- Refinery Utilization: -1.3% (est 0.0%; prev -3.3%)

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EIA: US Crude Stockpiles In SPR Fell In Latest Week To Lowest Since Dec 1983 -

## Corn

- CBOT corn futures were higher on ongoing concerns over dry weather across southern South America and slow US export developments. Higher wheat aided corn futures. 7,000 March corn contracts hit stops around \$6.5950 around 9:25 am CT. The contract session high was hit at \$6.6225. March corn closed near its day high.
- The US storm starting today accompanied by cold temperatures could support feed demand.
- Russia set their fertilizer export quota at 11.8 million tons for the January through May period. Russia accounts for about 13 percent of the global production of potash, phosphate and nitrogen-containing fertilizers, or 50 million tons. Jan-Nov Russia fertilizer exports were 25 million tons.
- Ukraine's AgMin estimated 2022 corn production at only 22-23 million tons, down from 41.9 million tons in 2021, due to a large reduction in the harvested area. The estimate is down from 25-27 million tons projected back in September. Only 70 percent of the 2022 area had been harvested, or 18.4 million tons. Next year the AgMin expects Ukraine producers to plant much more sunflowers, and less corn.
- Corn basis in Blaire, NE, was around 83 over the March (up 13 cents today), which is very strong. Demand from ethanol plants and feedlots have supported cash prices for that area.
- The Baltic Dry Index increased 8 percent to 1,726 points.
- January options expire Friday.

## EIA weekly ethanol update

- The US weekly EIA ethanol data was viewed neutral to slightly bullish for US corn futures.
- Weekly US ethanol production decreased 32,000 barrels from the previous week to 1.029 million barrels per day (bbl), second consecutive weekly decline.
- Ethanol stocks decreased 342,000 barrels to 24.067 million, snapping a 4 consecutive week of a build.
- For comparison, A Bloomberg poll looked for weekly US ethanol production to decrease 20,000 barrels from the previous week and stocks to decrease 4,000 barrels.
- US ethanol production of 1.029 million barrels per day is about 2.1% below from about the same time a year ago.
- Over the past 4 weeks, production changes averaged down 3,000 and stock changes up 310,000.
- Early September 2022 to date (15 weeks) US ethanol production is running 4.0% below the same period a year ago. At this time last year ethanol production was advancing 8.6% above the Sep 1, 2021-Dec 17, 2021 period.
- Padd2 production was 975,000 barrels, down 26,000 from a week earlier. Padd1 was unchanged and Padd3 off 5,000.
- There were no ethanol imports reported this week.
- Ethanol stocks of 24.067 million barrels are up about 16.2% from a year ago and 4.9% above the last previous 4-week average. The record for ethanol stocks was 27.689 million barrels set on 4/17/20, but today's inventories are still considered high.
- Days of inventory of 23.7 compares to 20.5 a month ago and 19.9 during comparable period a year ago.
- Weekly ending stocks of total gasoline were up 2.53 million barrels to 226.1 million barrels. Implied gasoline demand was up 459,000 barrels to 8.714 million barrels.

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- The net blender input of fuel ethanol was down 3,000 from the previous week at 876,000 bpd, same as its previous 4-week average of 876,000 bpd.
- Net production of finished reformulated and conventional motor gasoline with ethanol, decreased 2,000 to 8.612 million barrels, or 90.5 percent of the net production of all finished motor gasoline, down from 91.1 percent for the previous week.
- For 2022-23, we are using 5.250 billion bushels, compared to 5.275 billion by USDA and compares to 5.326 billion for 2021-22.

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- Distillate: -242K (est +1.500M; prev +1.364M)

- Cushing: +853K (prev +426K)

- Gasoline: +2.530M (est +2.000M; prev +4.496M)

- Refinery Utilization: -1.3% (est 0.0%; prev -3.3%)

EIA: US Crude Stockpiles In SPR Fell In Latest Week To Lowest Since Dec 1983 -

## US Weekly Petroleum Status Report - Ethanol

	Ethanol Production		Change		Ethanol Stocks		Change		Days of Inv.
	Mbbl	Last Week	Last Year	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	1,531	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	1,152	16.9%	21.9		
12/16/2022	1029	(32)	-2.1%	24,067	(342)	16.2%	23.7		

Source: EIA and FI

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## US Weekly Ethanol By PADD

	16-Dec 2022	9-Dec 2022	Change	Weekly Percent	4-Week Percent	YOY Percent
<b>Ethanol Stocks</b>						
Total Stocks	24067	24409	(342)	-1.4%	4.9%	16.2%
East Coast PADD 1	7527	7470	57	0.8%	8.0%	25.7%
Midwest PADD 2	9160	9337	(177)	-1.9%	-2.1%	12.5%
Gulf Coast PADD 3	4318	4359	(41)	-0.9%	10.2%	15.8%
Rocky Mt. PADD 4	305	320	(15)	-4.7%	-5.3%	-22.6%
West Coast PADD 5	2756	2923	(167)	-5.7%	16.8%	12.4%
<b>Plant Production</b>						
Total Production	1029	1061	(32)	-3.0%	1.1%	-2.1%
East Coast PADD 1	12	12	0	0.0%	0.0%	
Midwest PADD 2	975	1001	(26)	-2.6%	1.4%	-1.6%
Gulf Coast PADD 3	20	25	(5)	-20.0%	0.0%	
Rocky Mt. PADD 4	14	15	(1)	-6.7%	0.0%	
West Coast PADD 5	8	8	0	0.0%	-11.1%	

Source: EIA and FI

Export developments.

- None reported

## 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%
<b>Dec. 1 On Feed (Ending Inventory)</b>	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 %

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Corn		Change	Oats	Change	Ethanol	Settle		
MAR3	662.75	10.75	MAR3	346.75	10.25	DEC2	2.18	Spot DDGS IL
MAY3	662.25	10.25	MAY3	344.00	8.25	JAN3	2.17	NYM Chi. ETH
JUL3	656.00	9.75	JUL3	343.50	7.50	FEB3	2.18	+ Corn
SEP3	615.50	6.25	SEP3	339.50	9.25	MAR3	2.19	Ethanol Crush
DEC3	602.75	6.50	DEC3	346.25	9.25	APR3	2.21	1.49
MAR4	610.75	6.25	MAR4	338.50	9.25	MAY3	2.21	
Soybean/Corn		Ratio	Spread	Change	Wheat/Corn	Ratio	Spread	Change
MAR3	MAR3	2.24	821.75	(6.00)	MAR3	1.16	104.75	6.25
MAY3	MAY3	2.25	825.25	(5.75)	MAY3	1.17	112.75	7.25
JUL3	JUL3	2.27	833.75	(5.50)	JUL3	1.19	123.50	7.75
SEP3	SEP3	2.30	801.00	(4.50)	SEP3	1.28	170.00	10.25
NOV3	DEC3	2.31	787.50	(5.75)	DEC3	1.32	194.25	10.00
MAR4	MAR4	2.27	773.00	(8.00)	MAR4	1.31	192.25	10.25
US Corn Basis & Barge Freight								
Gulf Corn			BRAZIL Corn Basis			Chicago		
JAN	+112 / 113 h	up6/up1	JAN	+95 / 120 z	dn5/unch	Toledo	+15 h unch	
FEB	+105 / 110 h	unch	JLY	+42 / 65 n	dn3/unch	Decatur	-22 h unch	
MCH	+99 / 101 h	unch	AUG	+70 / 85 u	unch	Dayton	+32 h unch	
APR	+90 / 92 k	up1/up1		0		Cedar Rapids	+5 h unch	
MAY	+87 / 89 k	unch				Burns Harbor	-10 h unch	
USD/ton: Ukraine Odessa \$ 200.00						Memphis-Cairo Barge Freight (offer)		
US Gulf 3YC Fob Gulf Seller (RTRS) 316.6 313.1 309.5 306.8 302.6 299.8						BrgF MTCT DEC	700	unchanged
China 2YC Maize Cif Dalian (DCE) 402.9 397.8 395.5 395.8 398.5 399.3						BrgF MTCT JAN	650	unchanged
Argentina Yellow Maize Fob UpRiver 273.9 294.3 - 294.3 - -						BrgF MTCT FEB	650	unchanged

Source: FI, DJ, Reuters & various trade sources

Updated 12/6/22

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

## Soybeans

- Soybeans and meal ended higher while soybean oil turned lower, exception January soybean oil, on product spreading despite higher US energy prices. January and March soybean oil settled higher (modified close March was slightly lower). Some of buying in January could be technical and positioning ahead of FND deliveries a week from Friday. Nearby soybean spreads were under pressure.

Soyoil	Bid	Ask	Change	High	Low	Volume
F3/H3	1.43	1.48	0.20	1.58	1.15	16,982
F3/K3	2.40	2.48	0.28	2.54	1.92	1,524
H3/K3	0.96	1.01	0.06	1.03	0.77	6,029
K3/N3	0.66	0.72	0.01	0.76	0.61	3,738

- The entire soybean complex opened higher supported by dry weather across southern South America and a surge in covid cases in China. Argentina is still slated to see two rain events over the next week but amounts will not be great enough to end the drought.
- We heard Argentina sold more than 240,500 tons of soybeans on Monday, bringing late November (28<sup>th</sup>) to December 19<sup>th</sup> bookings to 4.27 million tons. The \$230 exchange rate will last through December 31.

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- India's market regulator extended their ban on trading derivative products in selected commodities, including palm oil, wheat, and paddy, until December 20, 2023.
- Malaysian palm oil rallied in part to heavy rains this week potentially disrupting palm production. ITS reported Malaysian palm oil exports during the December 1-20 period at 952,592 tons, down 4.5% from November 1-20.

#### Export Developments

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

Soybeans		Change	Soybean Meal		Change	Soybean Oil		Change
JAN3	1480.50	2.00	JAN3	455.90	3.50	JAN3	66.18	0.13
MAR3	1484.50	4.75	MAR3	452.60	3.30	MAR3	64.74	(0.07)
MAY3	1487.50	4.50	MAY3	445.20	3.20	MAY3	63.71	(0.19)
JUL3	1489.75	4.25	JUL3	440.30	2.80	JUL3	63.01	(0.20)
AUG3	1469.00	4.00	AUG3	432.80	2.60	AUG3	62.38	(0.23)
SEP3	1416.50	1.75	SEP3	422.20	2.50	SEP3	61.88	(0.24)
NOV3	1390.25	0.75	OCT3	410.70	2.60	OCT3	61.29	(0.33)

Soybeans	Spread	Change	SoyMeal	Spread	Change	SoyOil	Spread	Change
Jan-Mar	4.00	2.75	Jan-Mar	-3.30	(0.20)	Jan-Mar	-1.44	(0.20)

Electronic Beans Crush		Oil as %	Meal/Oil \$	Meal	Oil
Month	Margin	of Oil&Meal	Con. Value	Value	Value
JAN3	250.46	JAN3 42.06%	\$ 5,882	1002.98	727.98
MAR3	223.36	MAR3 41.70%	\$ 6,416	995.72	712.14
MAY3	192.75	MAY3 41.71%	\$ 6,294	979.44	700.81
JUL3	172.02	JUL3 41.71%	\$ 6,224	968.66	693.11
AUG3	169.34	AUG3 41.88%	\$ 5,852	952.16	686.18
SEP3	193.02	SEP3 42.29%	\$ 5,092	928.84	680.68
OCT3/NOV3	187.48	OCT3 42.73%	\$ 4,296	903.54	674.19
NOV3/DEC3	178.02	DEC3 42.75%	\$ 4,240	897.82	670.45
JAN4	167.33	JAN4 42.83%	\$ 4,098	891.66	667.92
MAR4	162.30	MAR4 42.94%	\$ 3,890	882.20	663.85

US Soybean Complex Basis						
DEC	+145 / 151 f unch				DECATUR	+15 f dn5
JAN	+137 / 142 f up4/dn2	IL SBM (truck)	F-9	12/20/2022	SIDNEY	+5 f unch
FEB	+107 / 143 h up4/unch	CIF Meal	F+40	12/20/2022	CHICAGO	-10 f unch
MCH	+100 / 118 h unch	Oil FOB NOLA	500	12/16/2022	TOLEDO	-20 f unch
APR	+90 / 94 k up2/dn16	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	+80 / +140 x dn5/unch	FEB	+23 / +26 f unch/dn3	JAN	-750 / -600 f unch
FEB	+72 / +80 h up5/unch	MCH	+13 / +18 h dn3/dn1	FEB	-850 / -650 f dn70/dn100
MCH	+46 / +48 h up2/dn2	APR	+4 / +14 k up1/up6	MCH	-880 / -680 h udn50/dn80
APR	+33 / +40 k dn1/up2	MAY	+4 / +14 k up1/up6	APR	na nq
MAY	+44 / +48 k unch	JUNE	+2 / +8 n unch/up3	MAY	-950 / -650 k dn100/up50
	Argentina meal (ST)	502	49.9	Argentina oil: Spot fob	59.1 -5.59

Source: FI, DJ, Reuters & various trade sources

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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 were sharply higher on US temperature concerns, Iraq buying US wheat, and President Volodymyr Zelenskyy's visit to the US. What does the visit have to do with wheat? Speculation is that Ukraine may get additional funding/supplies to support their efforts for the Russia/Ukraine conflict. A potential escalation of war is renewing concerns over Black Sea grain shipments.
- Chicago wheat hit a 2-week high during the session.
- March Paris milling wheat officially closed up 8.25 euro, or 2.8%, at 304 euros a ton (\$322.48/ton).
- Unusually cold temperatures pose a risk for US winter grain damage over the next week. Lack of snow coverage stretches across a majority of Kansas, Texas, and Oklahoma.
- Ukraine grain exports since July 1 are running 32 percent below previous season at 20.6 million tons through December 21, including 7.6 million tons of wheat (down 51 percent), 11.3 MMT of corn (up 25%) and 1.6 million tons of barley (down 70%).
- South Africa's CEC estimated the wheat production at 2.249 million tons for 2022, down from 2.285 million last year, a 1.6% decrease.

## Export Developments.

- Iraq purchased 150,000 tons of US and Australian wheat. The US wheat went for \$496/ton and Australian wheat at \$460/ton.
- 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

## Rice/Other

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- (Bloomberg) China Nov. Cotton Imports +85% Y/y, Corn -5.8% Y/y: -- China's exports of rare-earth products fell 19.7% from a year ago in Nov.
- Results awaited: Bangladesh seeks 50,000 tons of rice on December 21 for shipment with 40 days of contract signing.
- 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 also seeks 50,000 tons of rice on December 27.

Chicago Wheat			KC Wheat			MN Wheat		
		Change			Change	Settle		Change
MAR3	767.50	17.00	MAR3	863.50	16.50	MAR3	927.25	11.25
MAY3	775.00	17.50	MAY3	857.00	16.25	MAY3	918.00	9.50
JUL3	779.50	17.50	JUL3	848.50	14.50	JUL3	913.00	8.25
SEP3	785.50	16.50	SEP3	849.25	13.50	SEP3	898.25	7.50
DEC3	797.00	16.50	DEC3	852.50	12.00	DEC3	904.25	8.25
MAR4	803.00	16.50	MAR4	851.25	12.50	MAR4	898.50	0.00
MAY4	802.50	16.00	MAY4	846.25	12.50	MAY4	0.00	0.00

Chicago Rice			US Wheat Basis		
		Change			
JAN3	17.80	0.020	MAR3	18.15	0.075
			MAY3	18.48	0.145

US Wheat Basis		
Gulf SRW Wheat	Gulf HRW Wheat	Chicago mill
DEC +125 / 150 h unch	JAN +160 h unch	Toledo -25 z unch
JAN +115 / 130 h unch	FEB +160 h unch	PNW US Soft White 10.5% protein BID
FEB 110 // 125 h unch	MCH +160 h unch	PNW Dec 845 unchanged
0-Jan	APR +154 k unch	PNW Jan 845 unchanged
0-Jan		PNW Feb 849 unchanged
		PNW Mar 853 unchanged

Paris Wheat		Change	OI	OI Change	World Prices \$/ton		Change
MAR3	304.75	8.25	152,983	913	US SRW FOB	\$332.70	\$0.80
MAY3	301.50	7.50	89,044	530	US HRW FOB	\$377.30	\$1.30
SEP3	284.00	6.75	61,107	(615)	Rouen FOB 11%	\$317.95	(\$3.25)
DEC3	283.25	5.75	53,678	(22)	Russia FOB 12%	\$310.00	(\$4.00)
EUR	1.0616				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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## USDA Export Sales Estimates/Results in 000 tons

	ESTIMATED 12/15/2022			12/8/2022 Last Week			12/16/2021 Year Ago		
<b>Beans</b>	22/23	800-1200		22/23	2,943.4		21/22	811.5	
	n/c	0-50		23/24	0.0		22/23	1.0	
					Sales to China 1,252.6			Sales to China 730.4	
<b>Meal</b>			Shipped			Shipped			Shipped
	22/23	150-300	150-250	22/23	209.7	174.0	20/21	300.1	397.5
	n/c	0.0		n/c	0.0		n/c	0.0	
<b>Oil</b>			Shipped			Shipped			Shipped
	22/23	0-5	0-5	22/23	(0.2)	0.4	20/21	109.5	4.6
	n/c	0.0		n/c	0.0		n/c	0.0	
					Sales to China 0.0		Sales to China 0.0		
<b>Corn</b>	22/23	650-900		22/23	958.9		21/22	982.9	
	n/c	0.0		23/24	0.0		22/23	132.5	
					Sales to China 10.1			Sales to China 4.9	
<b>Wheat</b>	22/23	200-450		22/23	469.0		22/23	425.5	
	n/c	0.0		n/c	0.0		22/23	33.0	

o/c=Old Crop, n/c= New Crop

Source: Futures International and USDA

## CASH CRUSHING MARGINS

as of 12/20

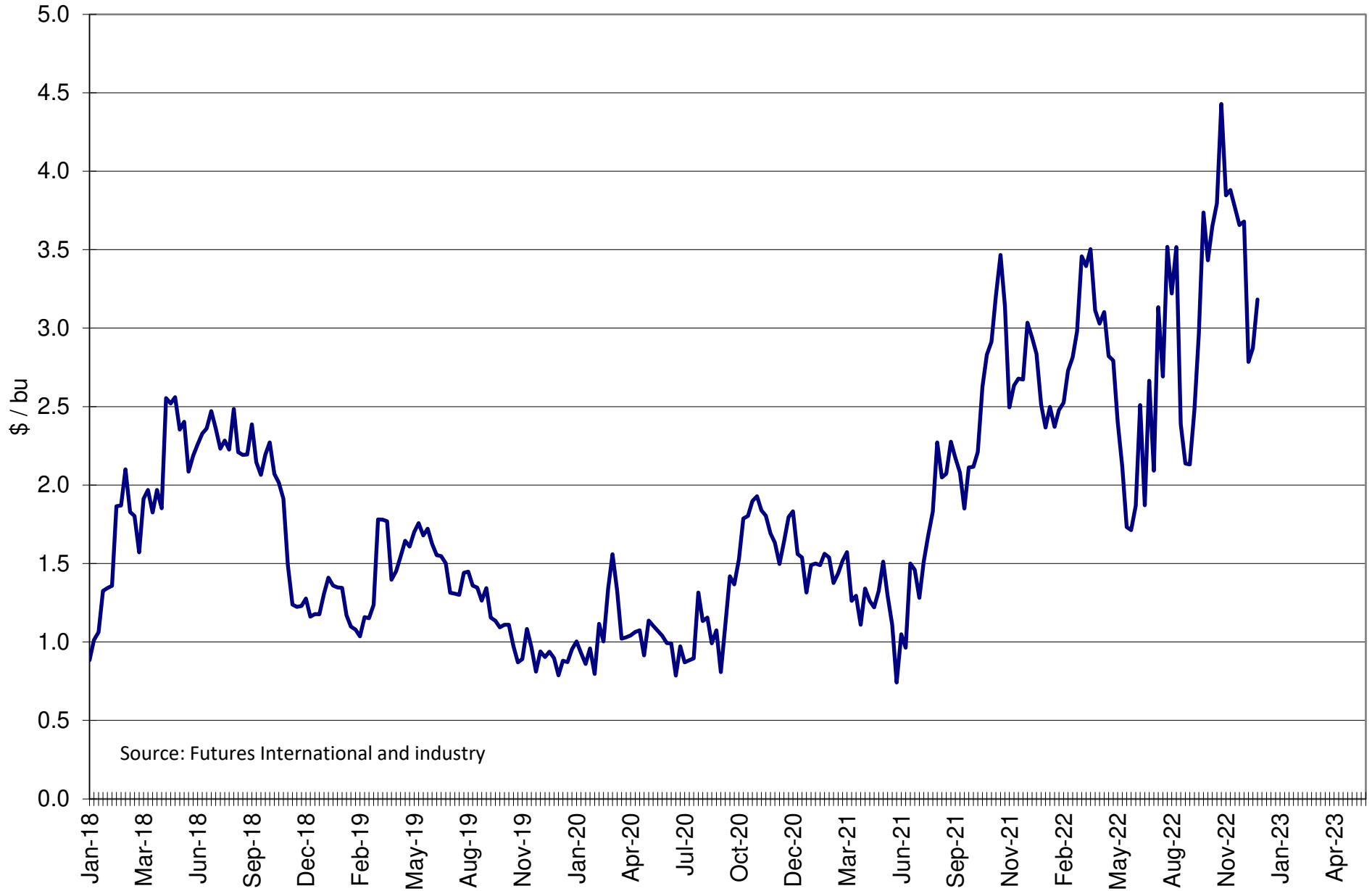
	<b>Decatur Illinois</b>	<b>Mt. Vernon Indiana</b>	<b>Sidney Ohio</b>	<b>Des Moines Iowa</b>	<b>Council Bluff Iowa</b>
Meal Basis 48%	-9	15	-6	-20	-20
Oil Basis (cents/lb)	4.50	4.00	4.00	7.00	7.00
Bean Basis (cents/bu)	15	35	5	18	45
Meal Value (\$/bu)	10.43	11.00	10.50	10.17	10.17
Oil Value (\$/bu)	7.69	7.69	7.69	8.50	8.50
Oil % of Total Value	42.43	41.14	42.26	45.51	45.51
Cash Crush (\$/bu)	3.18	3.55	3.35	3.70	3.43

Jan positions for soybeans

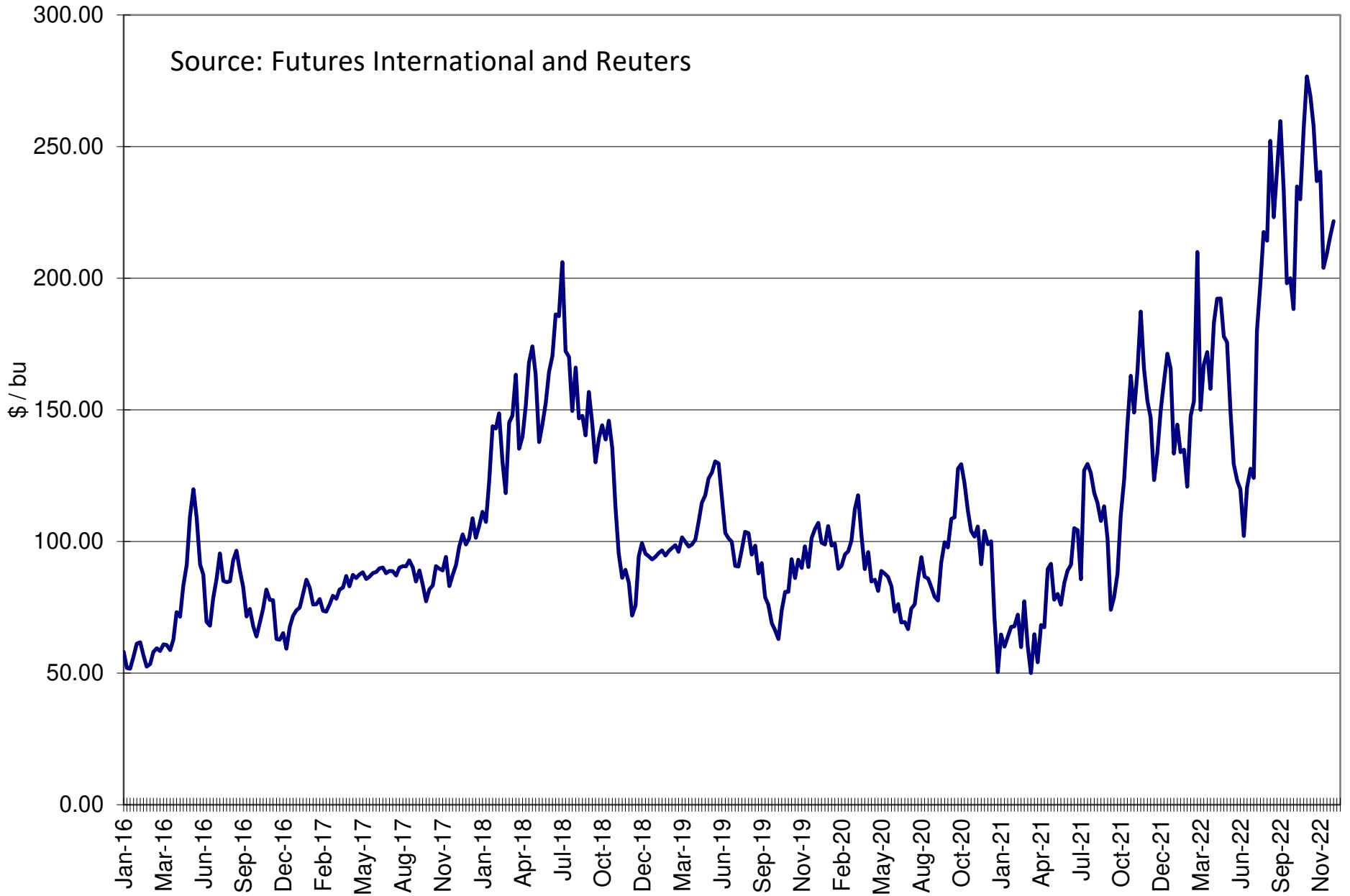
12/20/2022	3.18	3.55	3.35	3.70	3.43
12/13/2022	2.87	3.24	3.14	3.47	3.22
12/6/2022	2.78	3.22	3.10	3.14	2.89
11/29/2022	3.68	3.85	3.95	4.01	3.76
11/22/2022	3.66	3.83	3.88	3.94	3.79
11/15/2022	3.77	3.98	4.04	4.09	3.94
11/8/2022	3.88	4.38	4.20	4.20	4.15
11/1/2022	3.85	4.35	4.17	4.27	4.17
10/25/2022	4.43	4.96	4.58	4.72	4.47
10/18/2022	3.80	4.58	4.00	4.48	4.10
10/11/2022	3.65	4.23	3.85	4.34	4.11
10/4/2022	3.43	3.87	3.58	4.16	4.01
9/27/2022	3.74	4.20	4.23	4.95	4.95
9/20/2022	2.96	3.33	4.63	5.41	5.26
9/13/2022	2.48	3.11	3.80	5.28	4.63
9/6/2022	2.13	2.79	4.00	4.62	4.67
8/30/2022	2.14	3.04	4.61	4.31	4.76
8/23/2022	2.39	3.00	4.60	3.99	4.54
8/16/2022	3.52	3.09	5.16	4.45	4.90
8/9/2022	3.22	2.59	4.41	4.79	4.64
8/2/2022	3.52	3.39	4.69	5.34	5.14
7/26/2022	2.69	2.43	3.59	3.79	3.79
7/19/2022	3.13	2.92	3.15	3.26	3.31
7/12/2022	2.09	2.51	2.83	2.76	3.01
7/5/2022	2.67	3.07	3.29	4.30	4.35
6/28/2022	1.87	2.65	2.44	3.92	3.82
6/21/2022	2.51	2.47	1.98	3.88	3.48
6/14/2022	1.87	1.91	1.39	3.13	2.73
6/7/2022	1.71	2.09	1.98	3.18	3.13
5/31/2022	1.73	2.00	2.05	3.27	3.10
5/24/2022	2.11	2.58	2.43	3.40	3.50

Source: FI, NOPA, various trade sources

# Decatur Illinois Cash Crush Margin



# CBOT Soybean Rolling Second Position Crush Margin



# CBOT Rolling Second Position Oil Share of Product Value Percent





## US Weekly Petroleum Status Report

	Ethanol Production 000 Barrels Per Day	Change from Last Week	Change from Last Month	Change from Last Year	Ethanol Stocks 000 Barrels	Change from Last Week	Change from Last Month	Change from Last Year	Days of Ethanol Inventory
4/1/2022	1003	(33)	-2.4%	2.9%	25,903	(626)	2.5%	25.5%	26.4
4/8/2022	995	(8)	-3.0%	5.7%	24,803	(1100)	-4.4%	20.9%	26.0
4/15/2022	947	(48)	-9.1%	0.6%	24,342	(461)	-6.9%	19.0%	26.2
4/22/2022	963	16	-7.0%	1.9%	23,965	(377)	-9.7%	21.4%	25.3
4/29/2022	969	6	-3.4%	1.8%	23,887	(78)	-7.8%	16.9%	24.7
5/6/2022	991	22	-0.4%	1.2%	24,140	253	-2.7%	24.5%	24.1
5/13/2022	991	0	4.6%	-4.0%	23,791	(349)	-2.3%	22.4%	24.4
5/20/2022	1014	23	5.3%	0.3%	23,712	(79)	-1.1%	24.9%	23.5
5/27/2022	1071	57	10.5%	3.6%	22,961	(751)	-3.9%	17.2%	22.1
6/3/2022	1039	(32)	4.8%	-2.6%	23,636	675	-2.1%	18.4%	22.1
6/10/2022	1060	21	7.0%	3.4%	23,197	(439)	-2.5%	12.6%	22.3
6/17/2022	1055	(5)	4.0%	0.7%	23,476	279	-1.0%	11.2%	22.0
6/24/2022	1051	(4)	-1.9%	-0.7%	22,746	(730)	-0.9%	5.4%	22.3
7/1/2022	1044	(7)	0.5%	-2.2%	23,490	744	-0.6%	11.1%	21.8
7/8/2022	1005	(39)	-5.2%	-3.5%	23,606	116	1.8%	11.7%	23.4
7/15/2022	1034	29	-2.0%	0.6%	23,553	(53)	0.3%	4.6%	22.8
7/22/2022	1021	(13)	-2.9%	0.7%	23,328	(225)	2.6%	2.6%	23.1
7/29/2022	1043	22	-0.1%	3.0%	23,394	66	-0.4%	3.3%	22.4
8/5/2022	1022	(21)	1.7%	3.7%	23,256	(138)	-1.5%	4.4%	22.9
8/12/2022	983	(39)	-4.9%	1.0%	23,446	190	-0.5%	8.8%	23.7
8/19/2022	987	4	-3.3%	5.8%	23,807	361	2.1%	12.2%	23.8
8/26/2022	970	(17)	-7.0%	7.2%	23,533	(274)	0.6%	11.5%	24.5
9/2/2022	989	19	-3.2%	7.2%	23,138	(395)	-0.5%	13.5%	23.8
9/9/2022	963	(26)	-2.0%	2.8%	22,843	(295)	-2.6%	14.2%	24.0
9/16/2022	901	(62)	-8.7%	-2.7%	22,501	(342)	-5.5%	11.9%	25.4
9/23/2022	855	(46)	-11.9%	-6.5%	22,691	190	-3.6%	12.2%	26.3
9/30/2022	889	34	-10.1%	-9.1%	21,685	(1006)	-6.3%	8.8%	25.5
10/7/2022	932	43	-3.2%	-9.7%	21,863	178	-4.3%	10.2%	23.3
10/14/2022	1016	84	12.8%	-7.3%	21,844	(19)	-2.9%	8.8%	21.5
10/21/2022	1033	17	20.8%	-6.6%	22,291	447	-1.8%	11.9%	21.1
10/28/2022	1040	7	17.0%	-6.1%	22,232	(59)	2.5%	10.4%	21.4
11/4/2022	1051	11	12.8%	1.2%	22,192	(40)	1.5%	9.4%	21.2
11/11/2022	1011	(40)	-0.5%	-4.6%	21,298	(894)	-2.5%	6.1%	22.0
11/18/2022	1041	30	0.8%	-3.5%	22,829	1531	2.4%	13.2%	20.5
11/25/2022	1018	(23)	-2.1%	-1.6%	22,934	105	3.2%	13.0%	22.4
12/2/2022	1077	59	2.5%	-1.2%	23,257	323	4.8%	13.6%	21.3
12/9/2022	1061	(16)	4.9%	-2.4%	24,409	1152	14.6%	16.9%	21.9
12/16/2022	1029	(32)	-1.2%	-2.1%	24,067	(342)	5.4%	16.2%	23.7

4-week average change:

-3

4-week average change:

310

YOY Δ

6.8%

-2.7%

CY 21-22

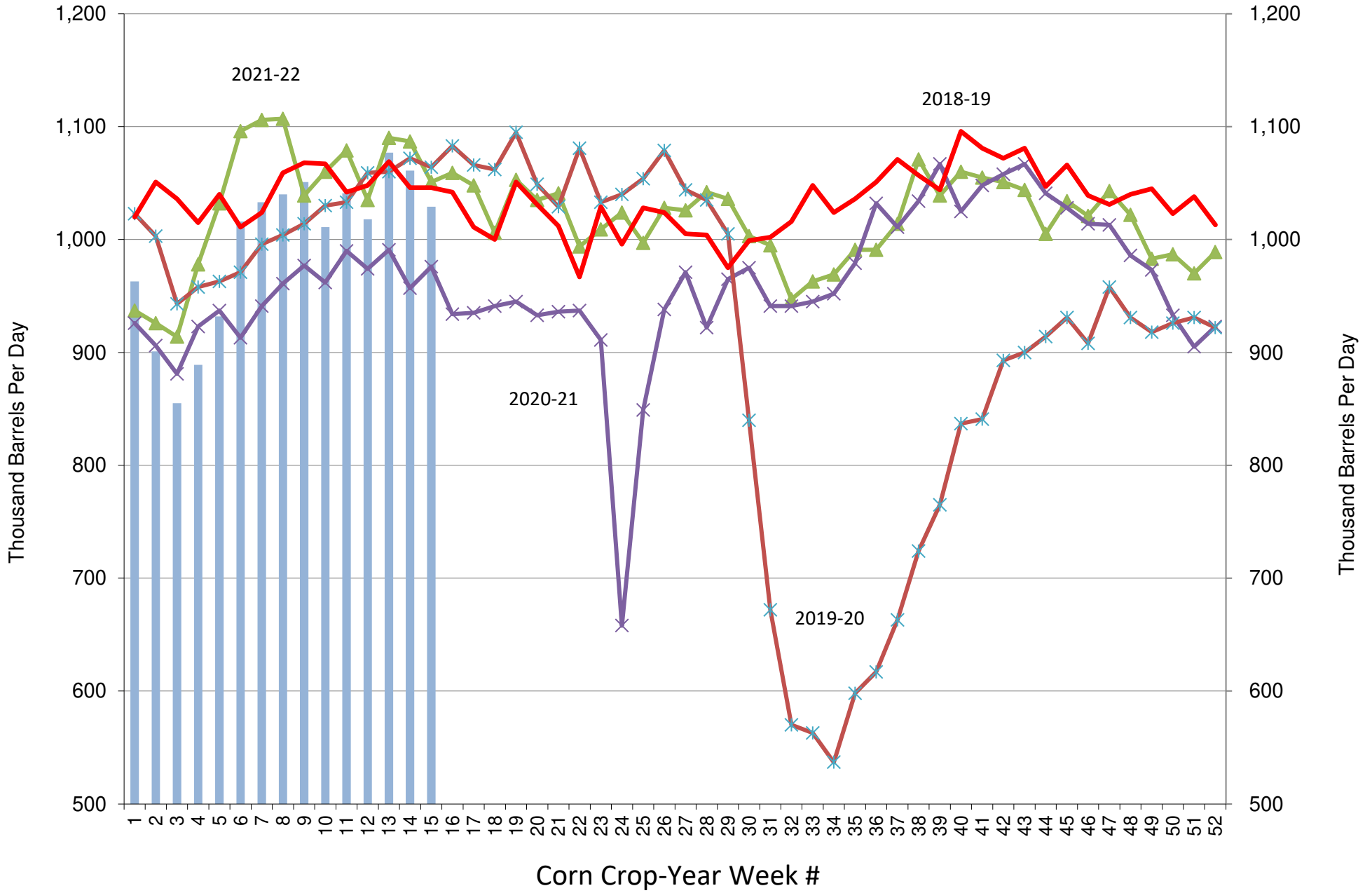
1024 2021-22 season average

CY to Date:

997 2022-23 season average

Source: Reuters, EIA, FI

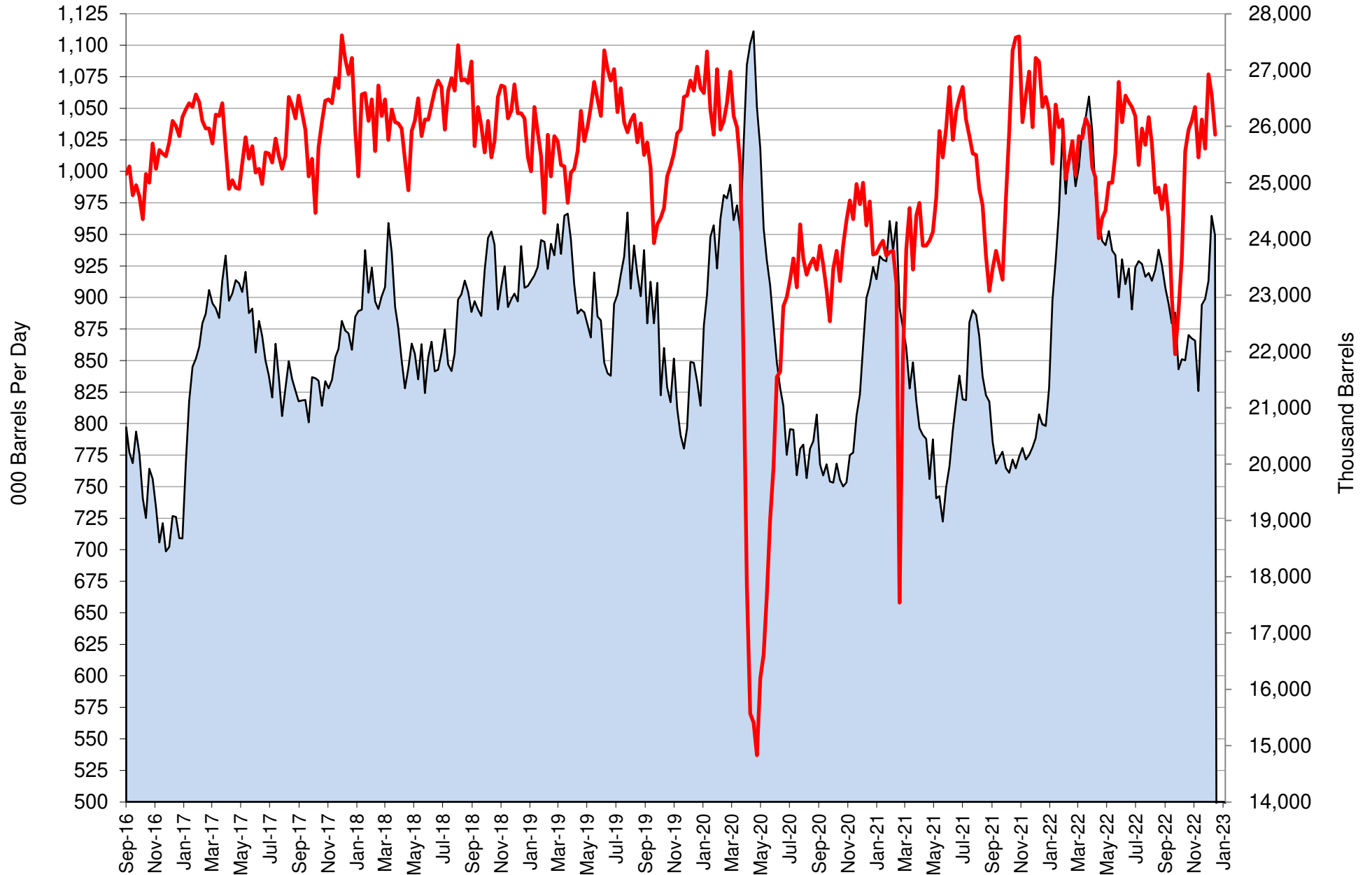
# US Weekly Ethanol Production



Source: EIA & FI

■ 2022-23   
 ▲ 2021-22   
 ✕ 2020-21   
 ✱ 2019-20   
 — 2018-19

# US Weekly Ethanol Production and Stocks

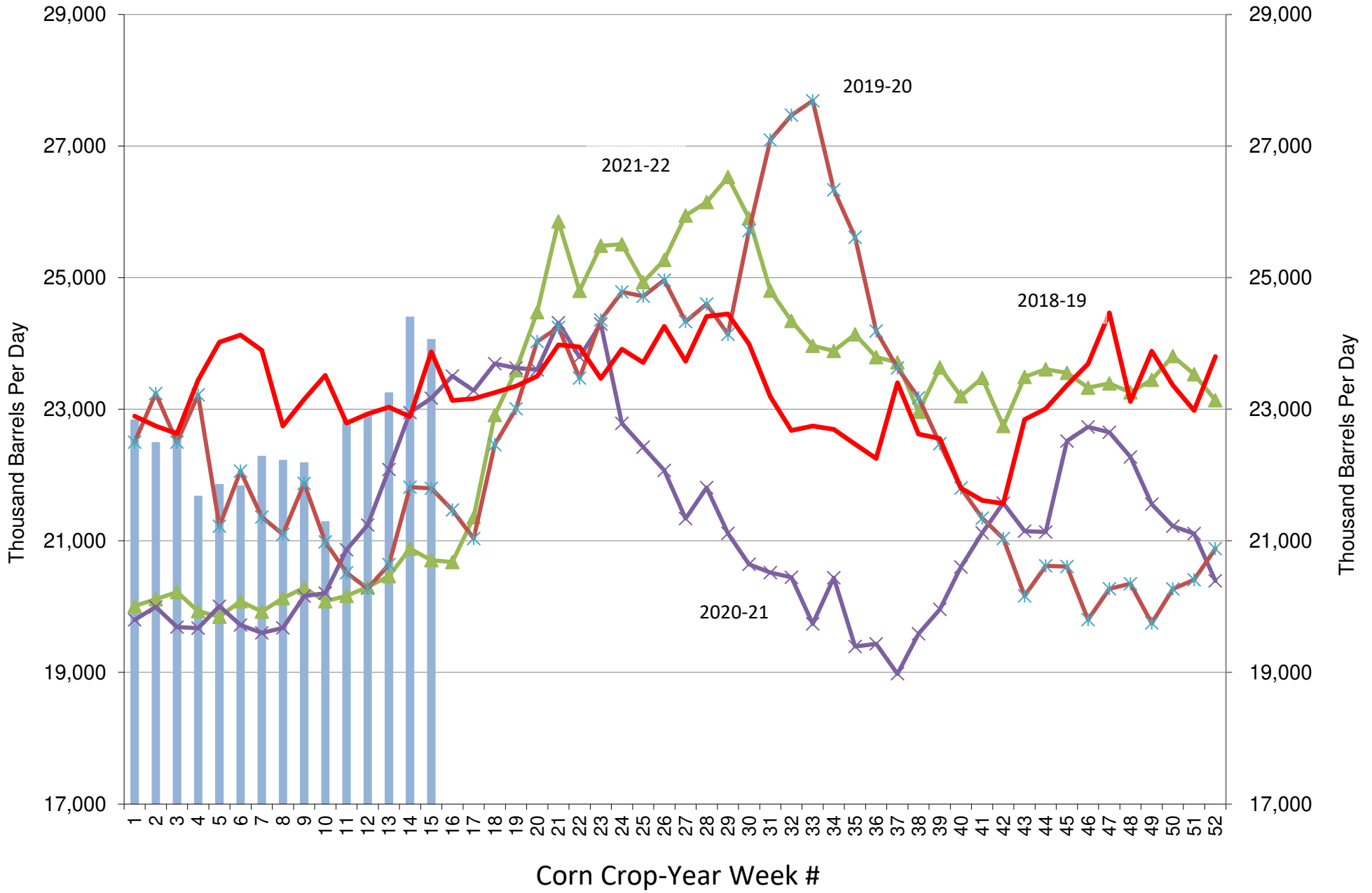


Source: EIA & FI

Stocks (1000bd)

Production (1000bd)

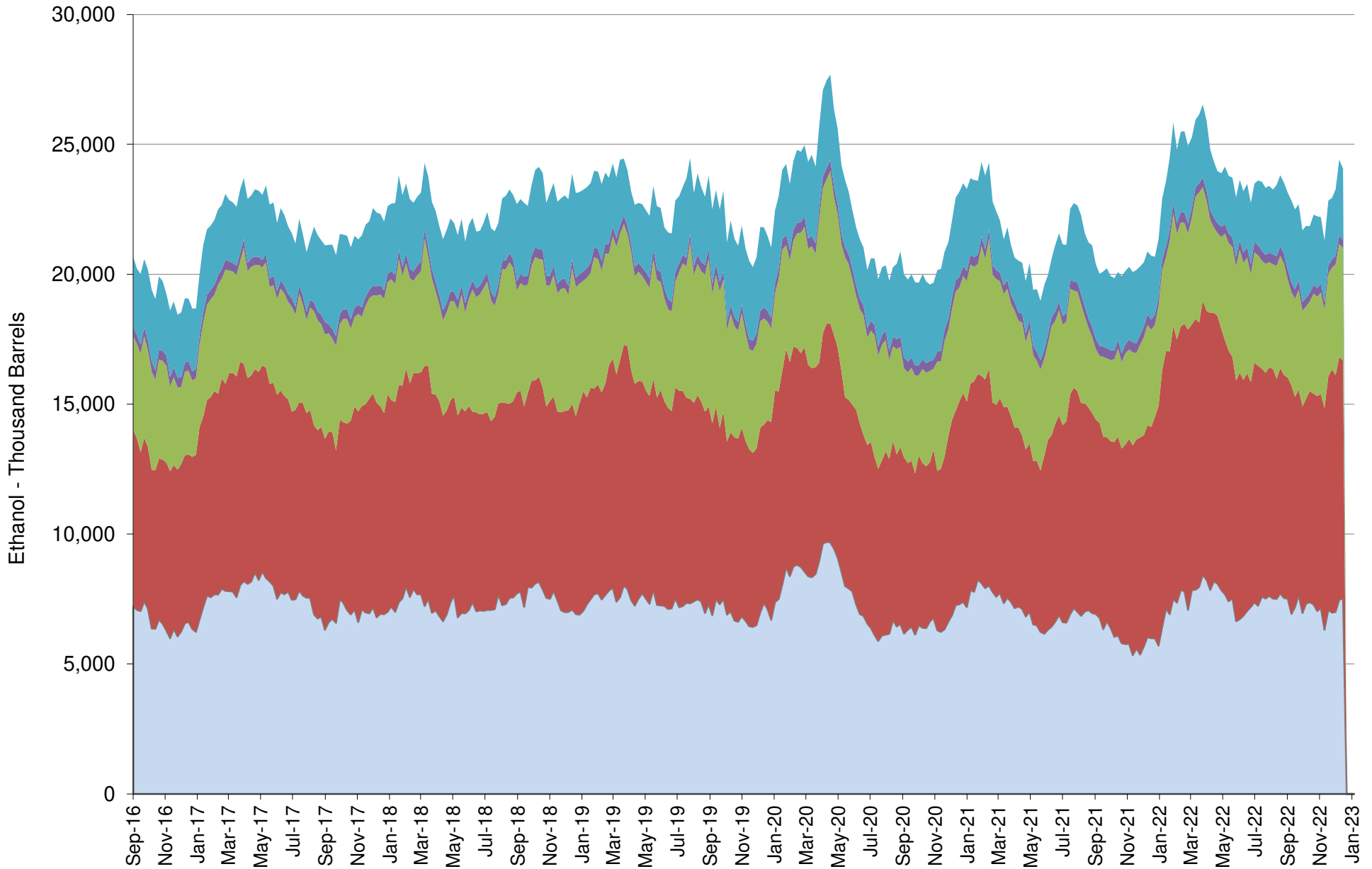
# US Weekly Ethanol Stocks (corn crop year)



Source: EIA & FI

■ 2022-23   
 ▲ 2021-22   
 ✕ 2020-21   
 ✱ 2019-20   
 — 2018-19

# US Weekly Ethanol Stocks by PADD

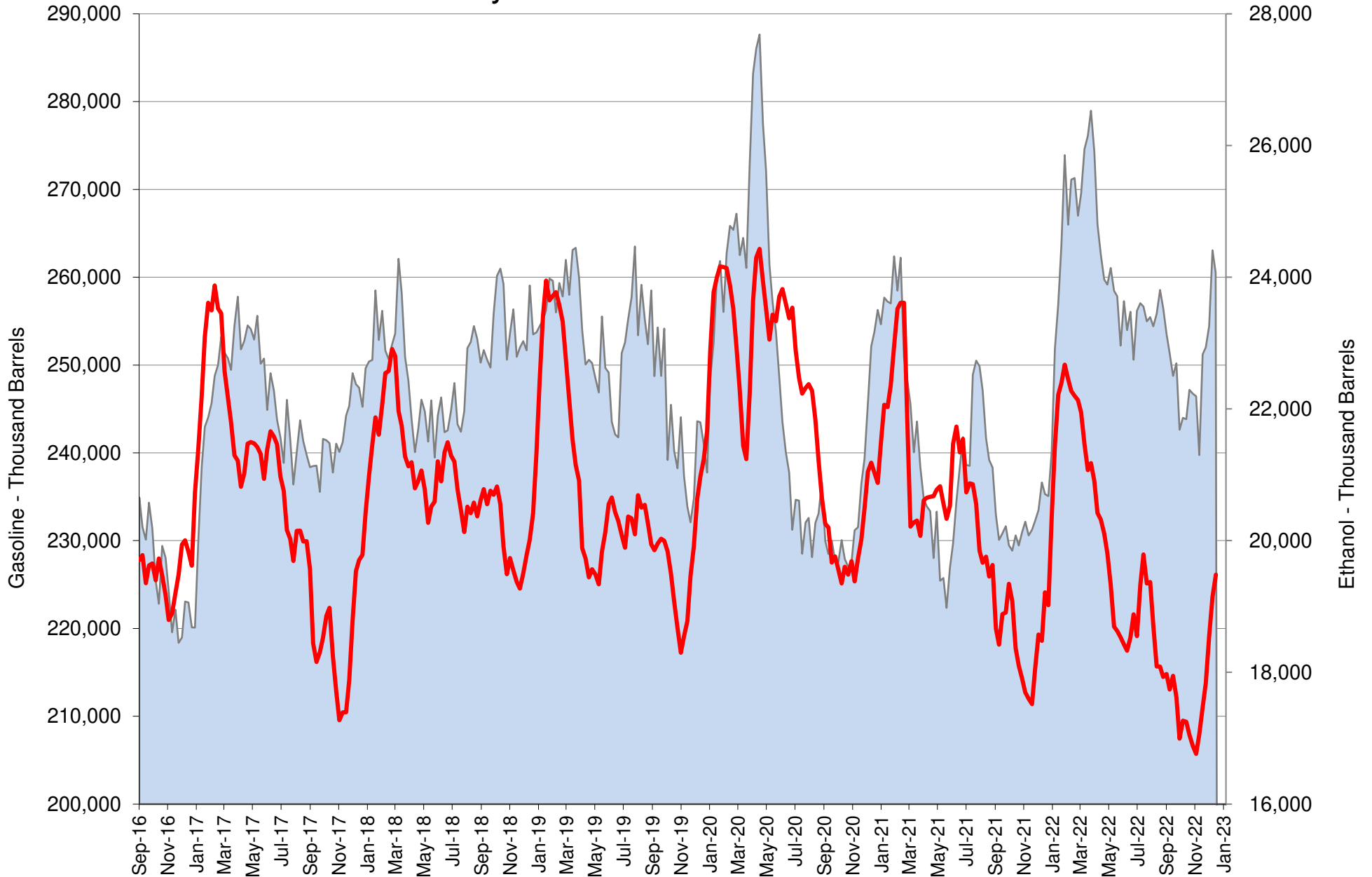


Source: EIA & FI

■ PADD1 ■ PADD2 ■ PADD3 ■ PADD4 ■ PADD5



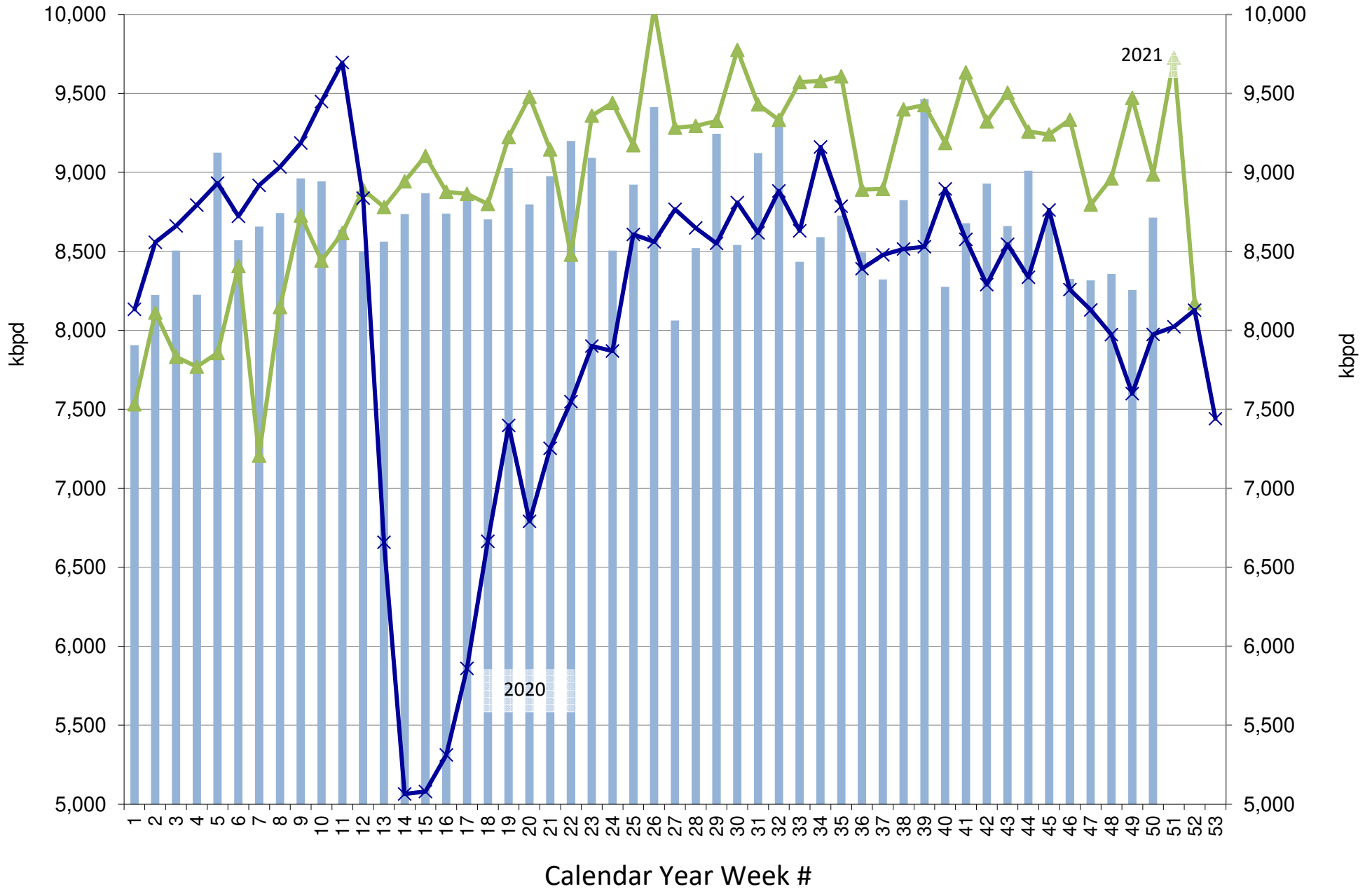
# US Weekly Gasoline and Ethanol Stocks



Source: EIA & FI

Stocks (1000bd) US Gasoline Ending Stocks (thousand barrels)

# US Weekly Gasoline Product Supplied



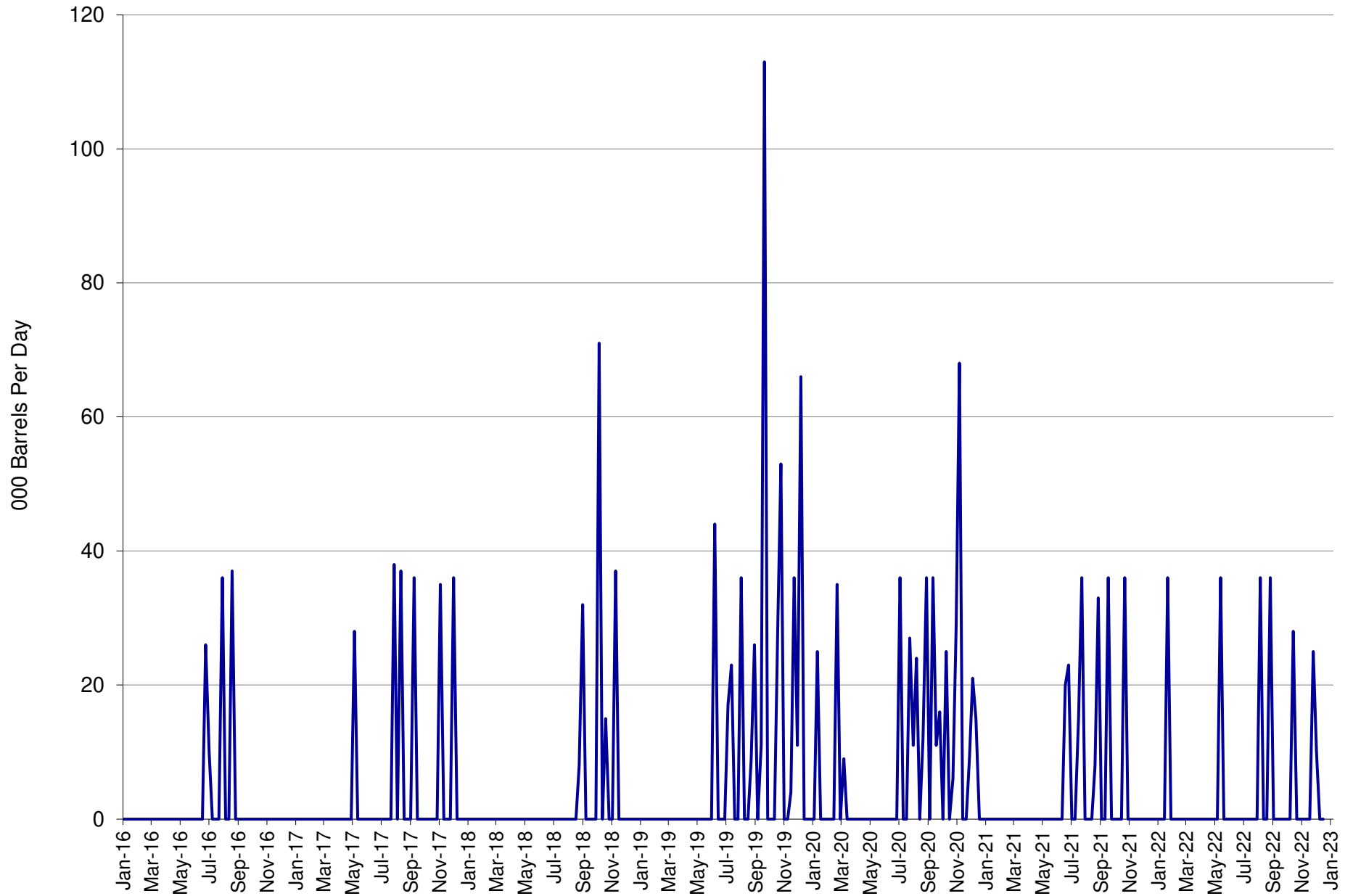
Source: EIA & FI

Gasoline Product Supplied (kbpd)

2021

2020

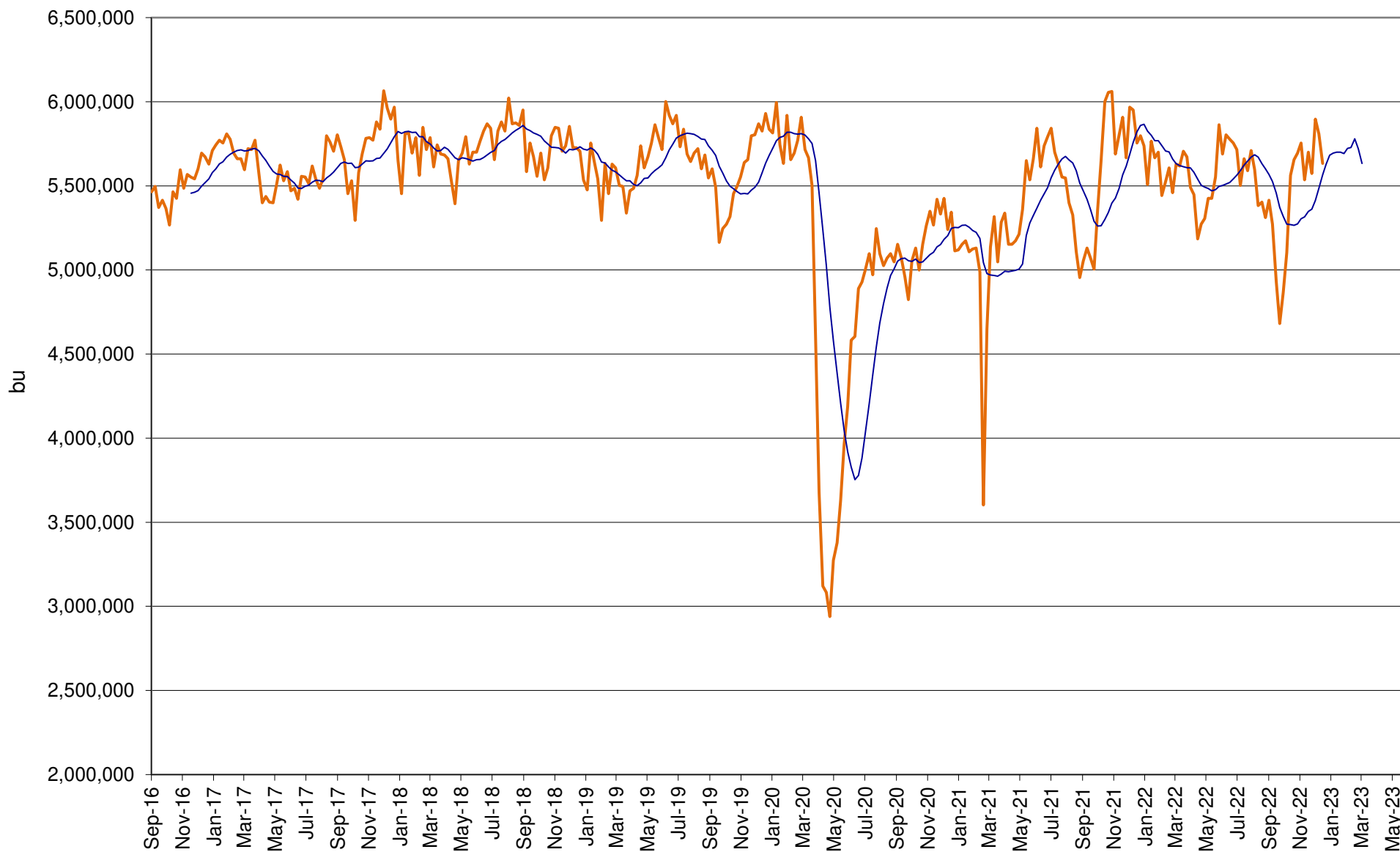
# US Weekly Ethanol Imports



Source: EIA & FI

— Imports (BPD)

# US Annualized Implied Corn Use

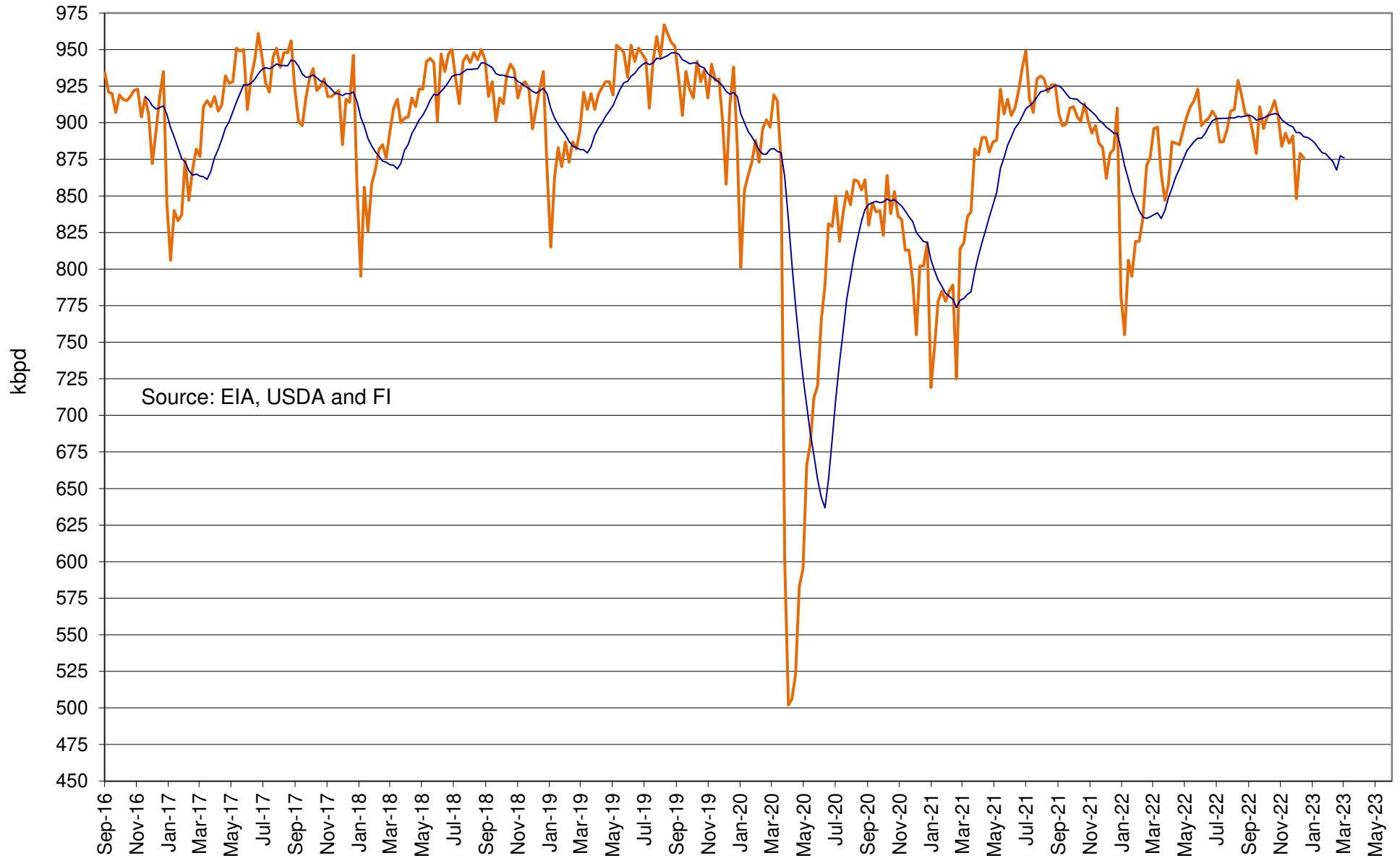


Source: EIA, USDA and FI

— US

— 12 per. Mov. Avg. (US)

# Refinery and Blender Net Input of Oxygenates Fuel Ethanol

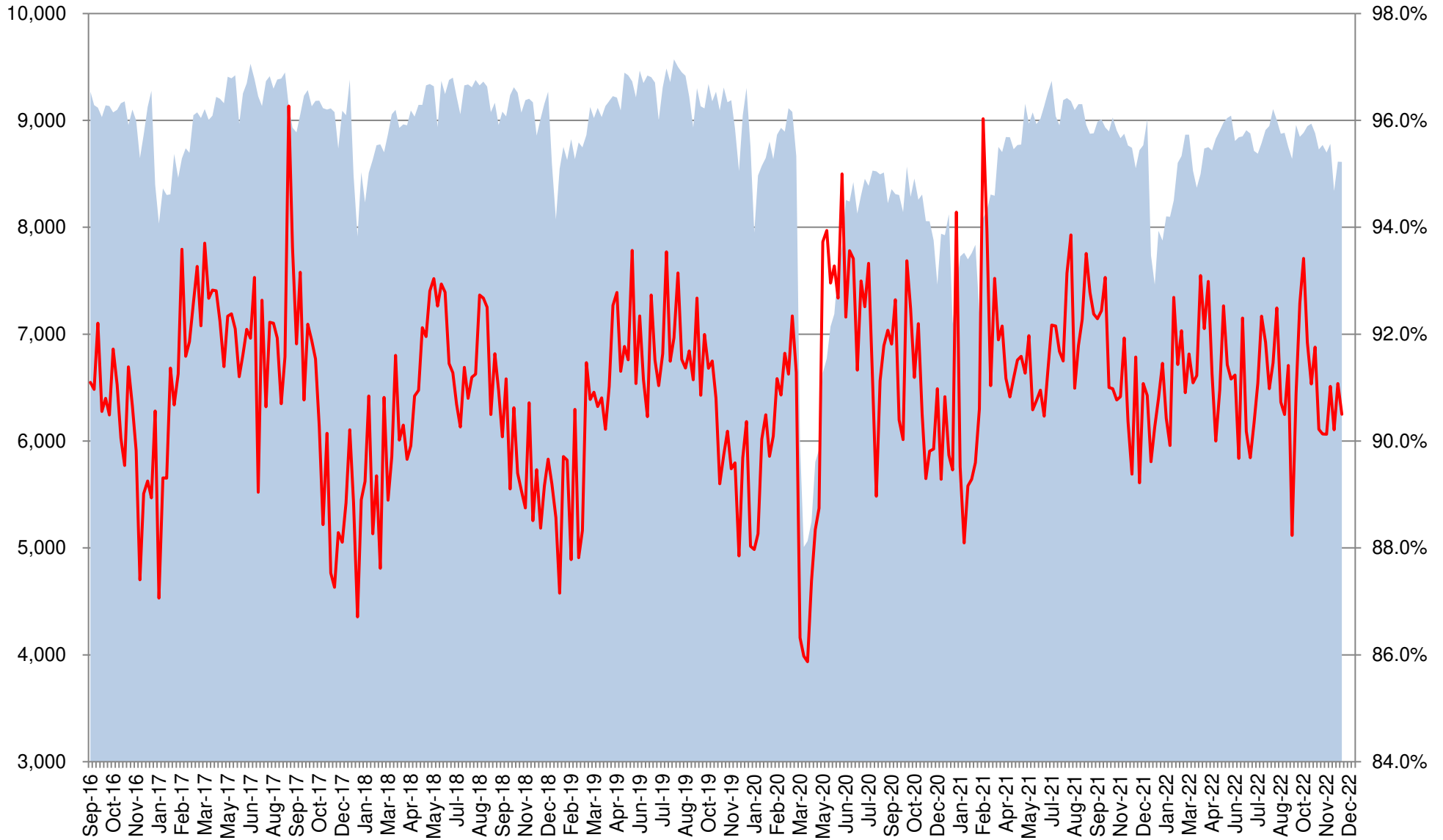


Source: EIA, USDA and FI

— Refinery and Blender Net Input of Oxygenates Fuel Ethanol — 12 per. Mov. Avg.



# US Net Blender Input of Fuel Ethanol and % Blend of Net Production of Finished Motor Gasoline

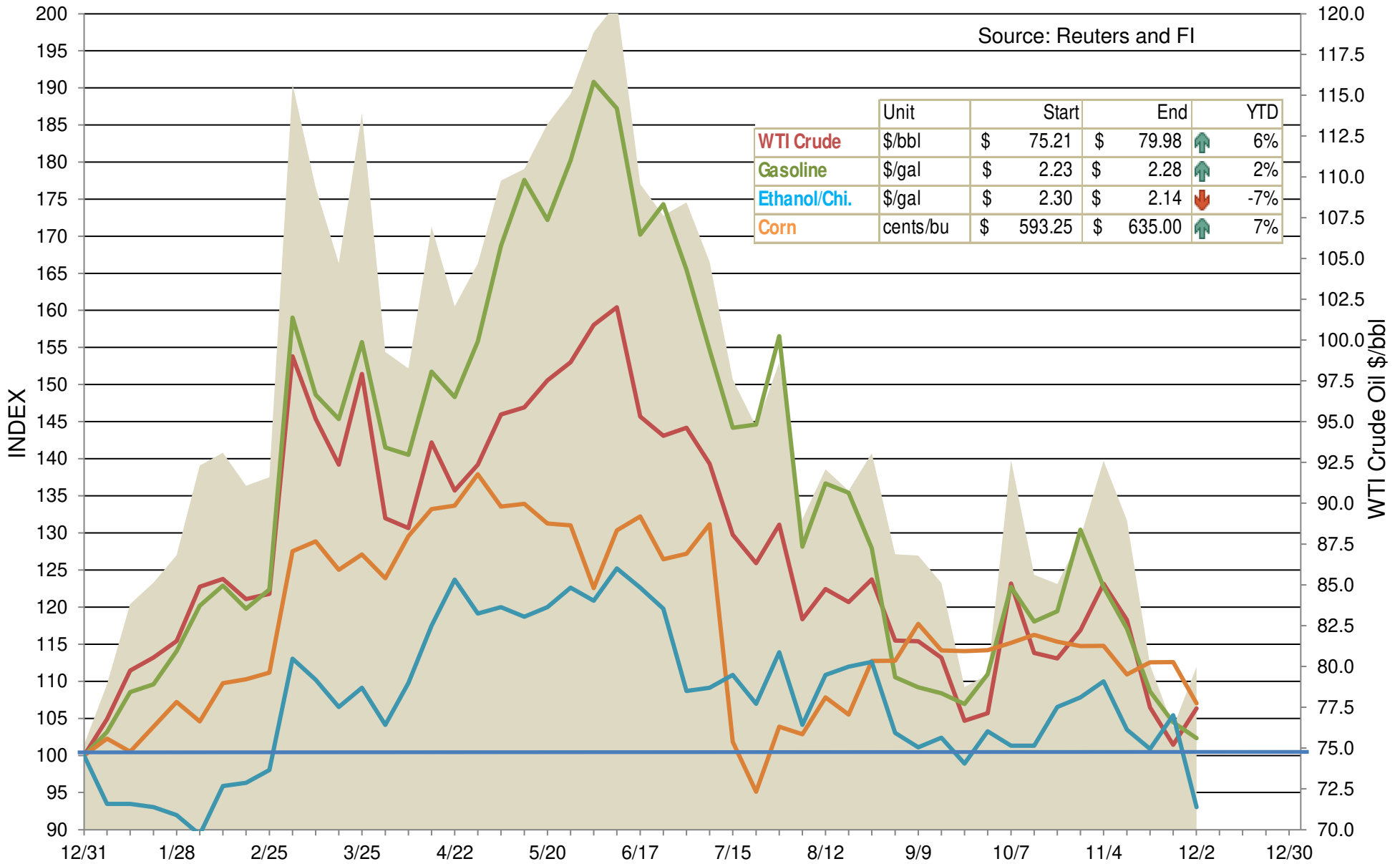


Source: EIA, USDA and FI

■ Total Blend Etoh

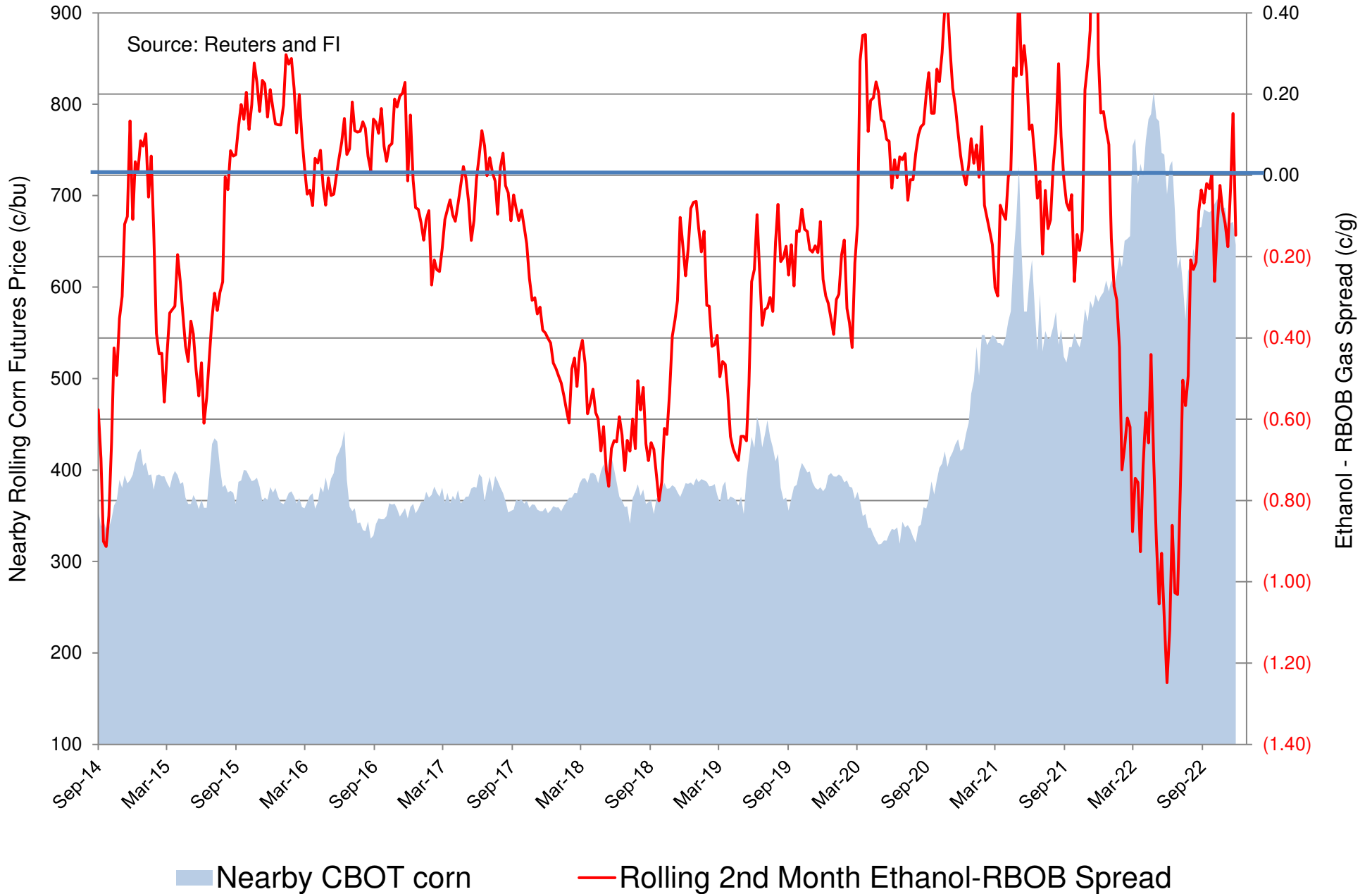
— Etoh Blend %

# Indexed Commodity Prices Starting January 2022 versus WTI Crude Nearby Futures

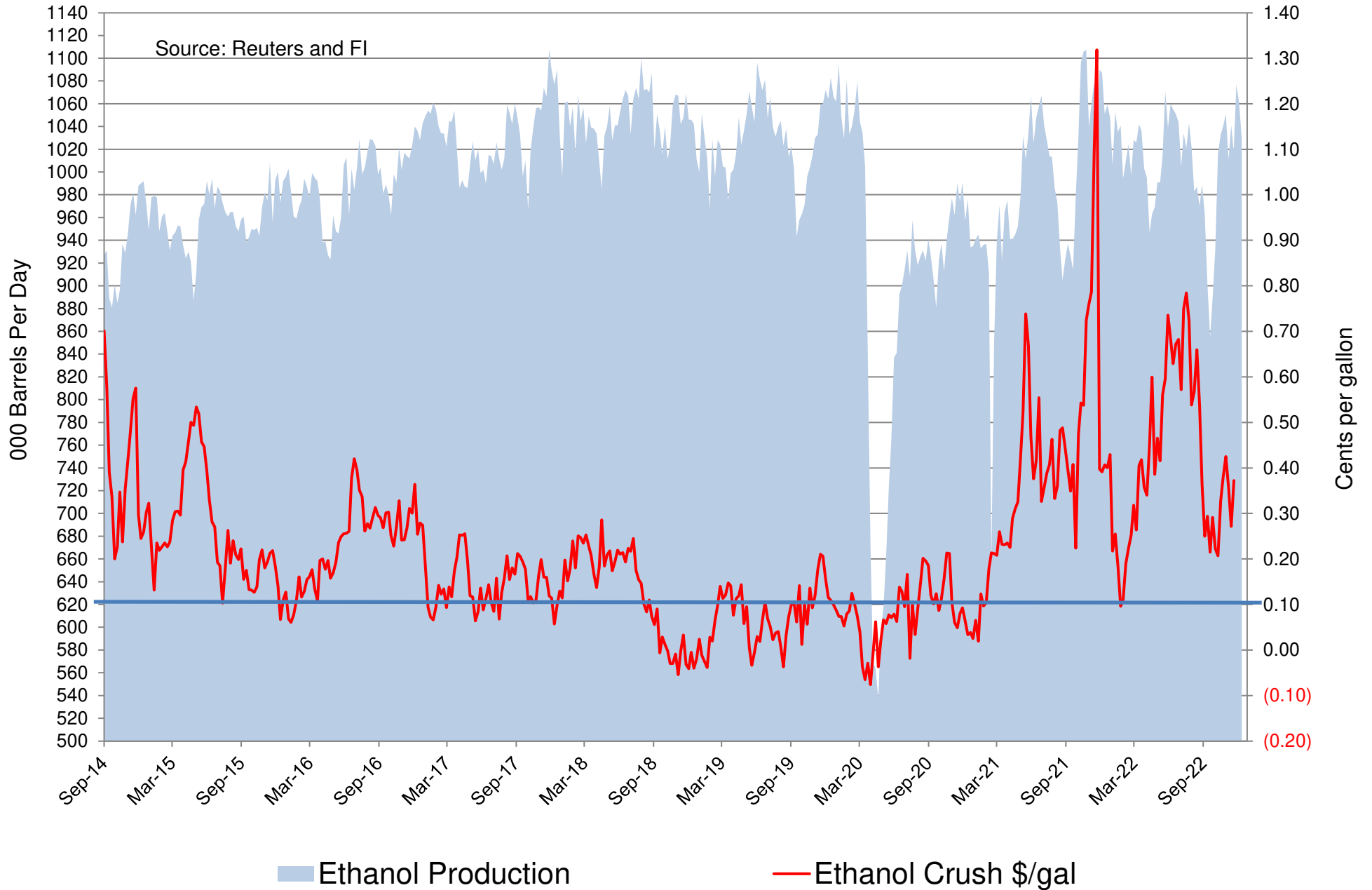


WTI Crude \$/bbl
  WTI Crude Index
  Gasoline Index
  Corn Index
  Ethanol/Chi. Index

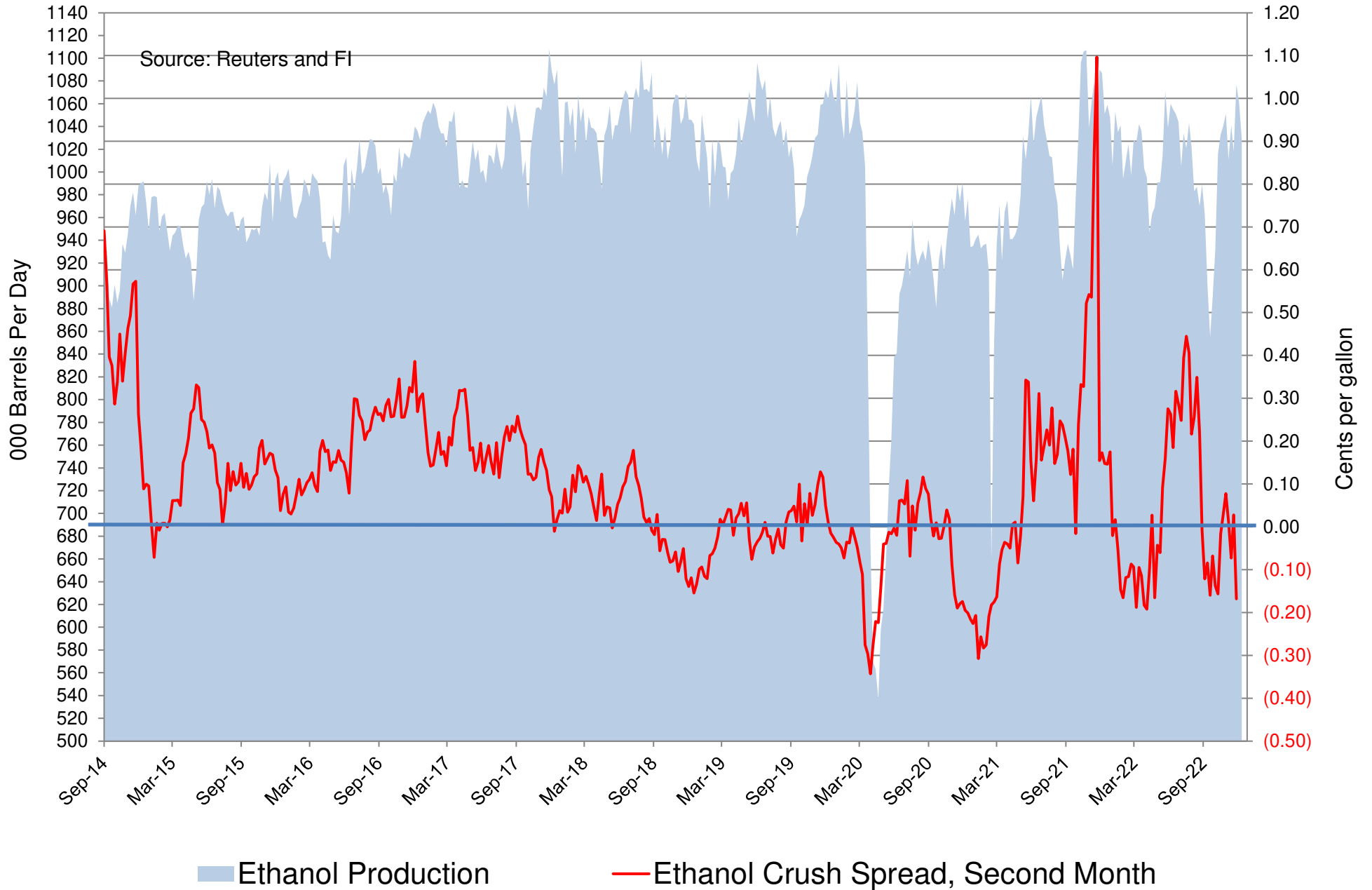
# CBOT Second Month Corn Futures versus Second Month Ethanol - RBOB Futures Spread



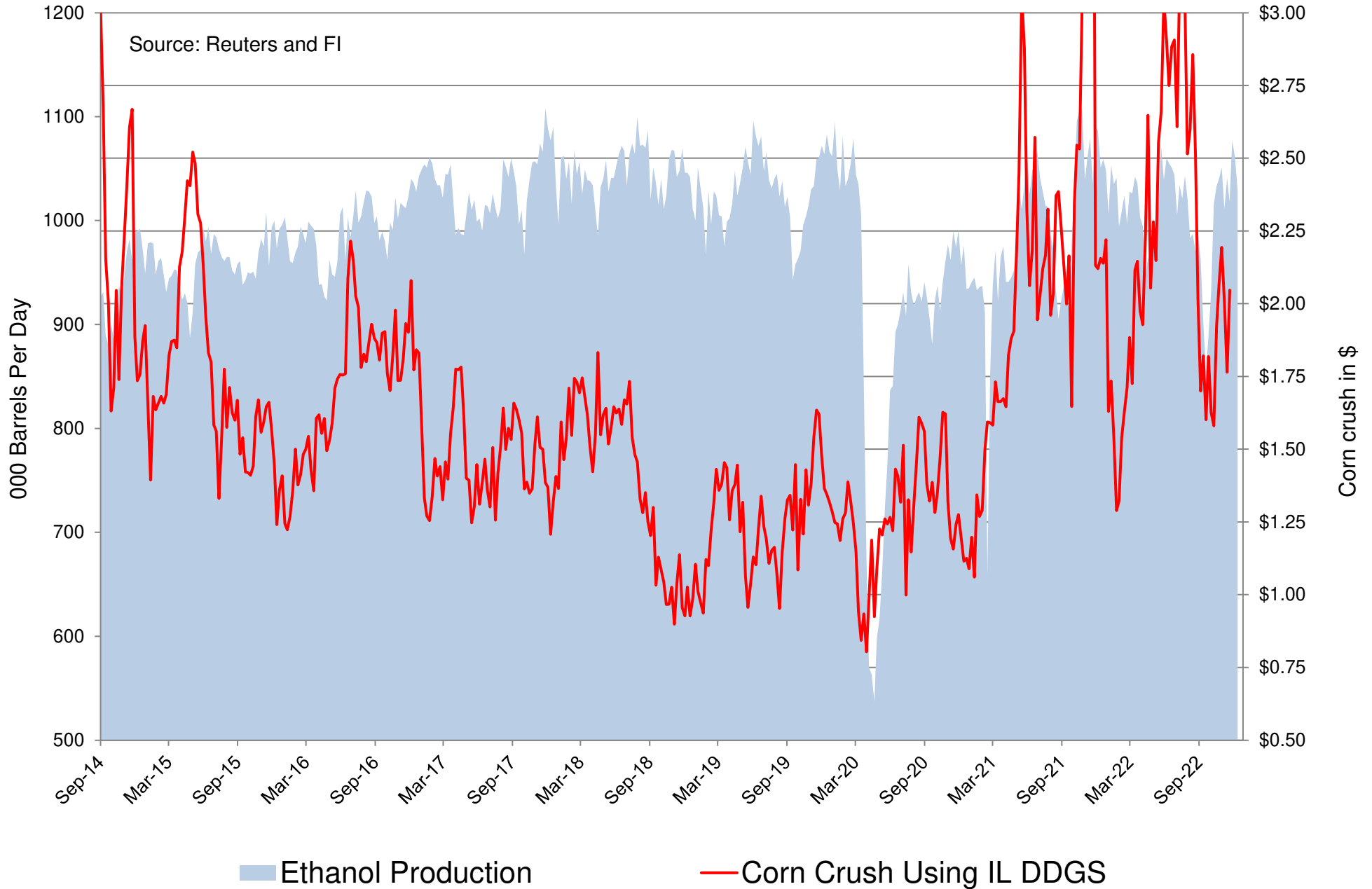
# CBOT Second Month Corn Crush Spread versus Weekly Ethanol Production (uses Chicago ethanol and IL DDGS w/ implied costs)



# Chicago Platts Second Month Corn Crush Spread versus Weekly Ethanol Production (Straight Calculation)



# CBOT Second Month Corn Crush Spread with IL DDGS versus Weekly Ethanol Production (straight 3-commodity calculation)



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