

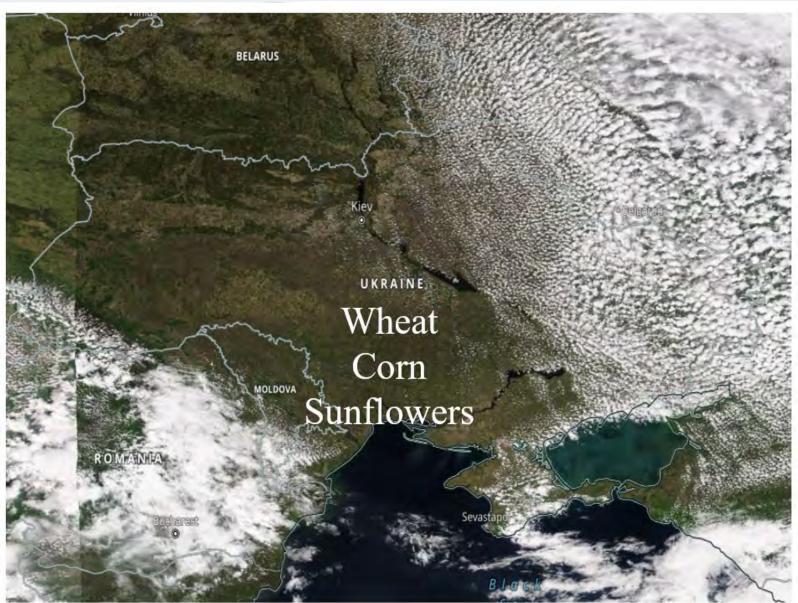
World Agricultural Supply and Demand Estimates

Report of May 12, 2022

Interagency Commodity Estimates Committee Forecasts World Agricultural Outlook Board, Chairing Agency Economic Research Service Foreign Agricultural Service Farm Production and Conservation Agricultural Marketing Service

Overview and highlights

- The first official forecasts for the 2022/23 marketing year (MY) as well as updates for the 2021/22 crop.
- First NASS survey-based 2022 U.S. winter wheat production forecast.
- Ukraine's 2022/23 production of wheat, corn, and sunflower expected to be down sharply year over year reflecting challenges from war.
- Brazil's 2nd-crop corn production unchanged as recent dryness in Center-West is offset by higher area in the south.
- India's 2021/22 cotton production reduced based on arrivals data.



Ukraine Assumptions

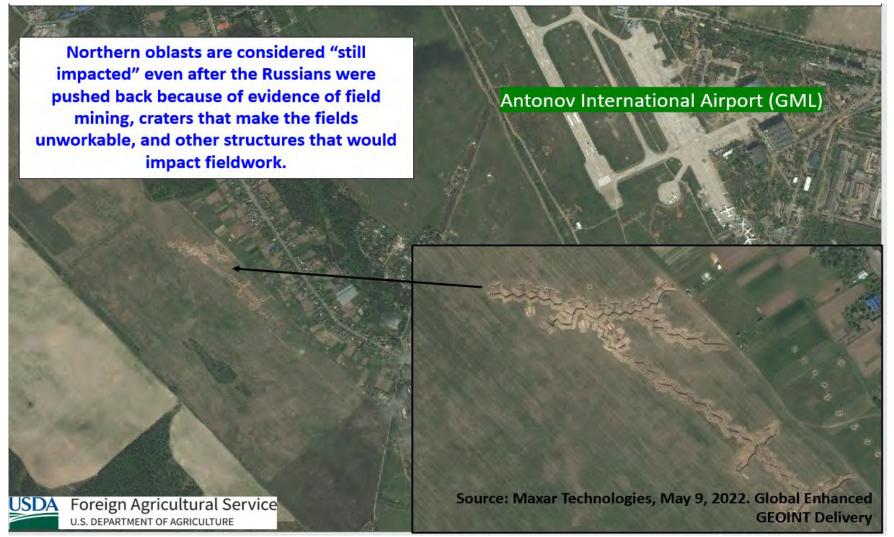
• Area:

- Conflict Zones Destruction Rate/Will not plant for areas in conflict zones: ~30% loss (from LES from contacts/Minag/Ukraine resources) –See map for example
- This 30 percent includes areas that have been destroyed because Russians have mined fields, areas that have been left unworkable due to bomb craters and debris in fields, and areas that cannot be planted due to lack of seeds or manpower.
- Areas that the Russians have been pushed back (in the north) are still being considered as "conflict"
- Fuel availability is 82.09% (from the Ministry of Agriculture).

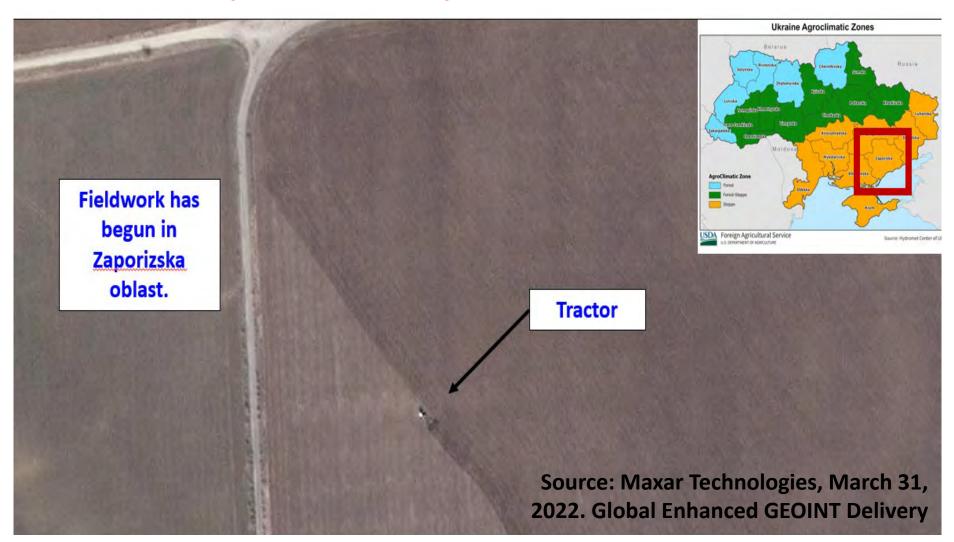
• Yield:

• 2020 is a good proxy year for crop yield because supply chain issues stemming from the COVID-19 pandemic, similar to the current year with the blockage of the Black Sea Ports.

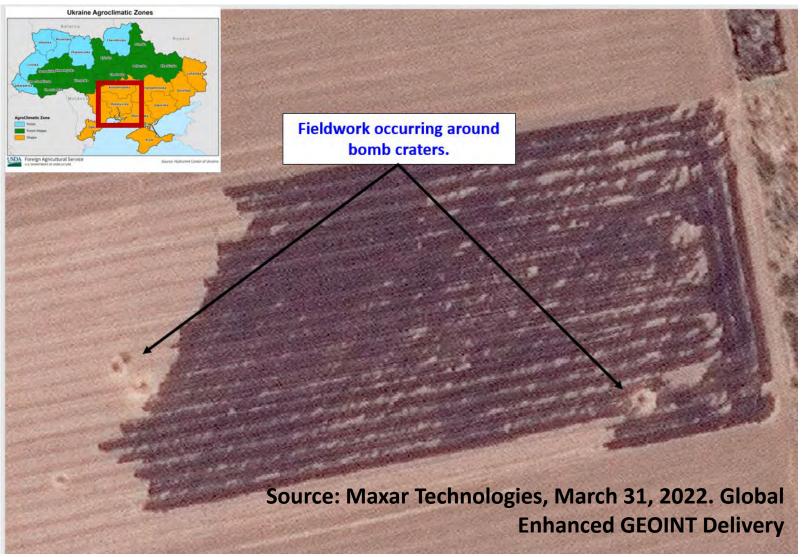
Kyiv Oblast: May 9, 2022



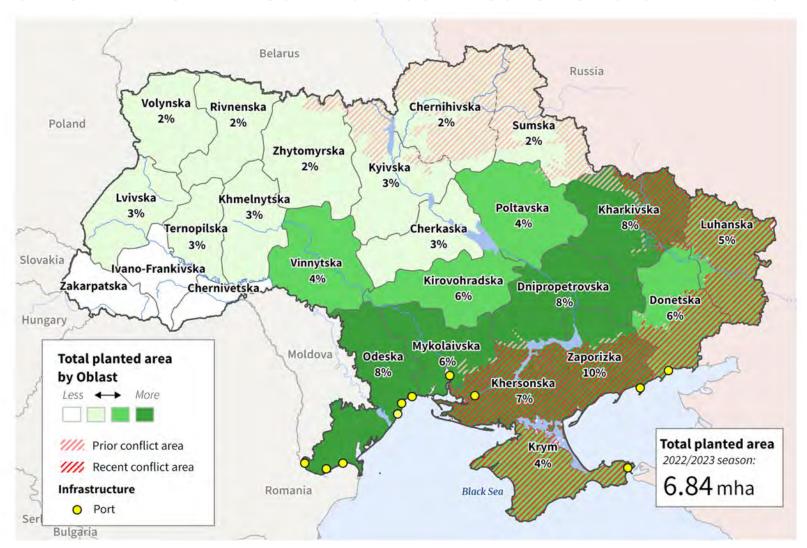
Fieldwork Preparation in Zaporizka Oblast: March 31, 2022



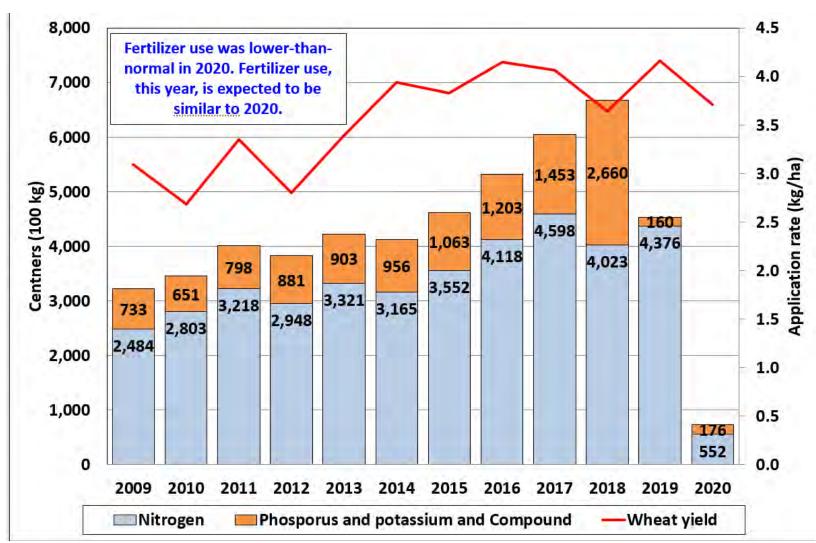
Mykolaiv Oblast Fieldwork Preparation

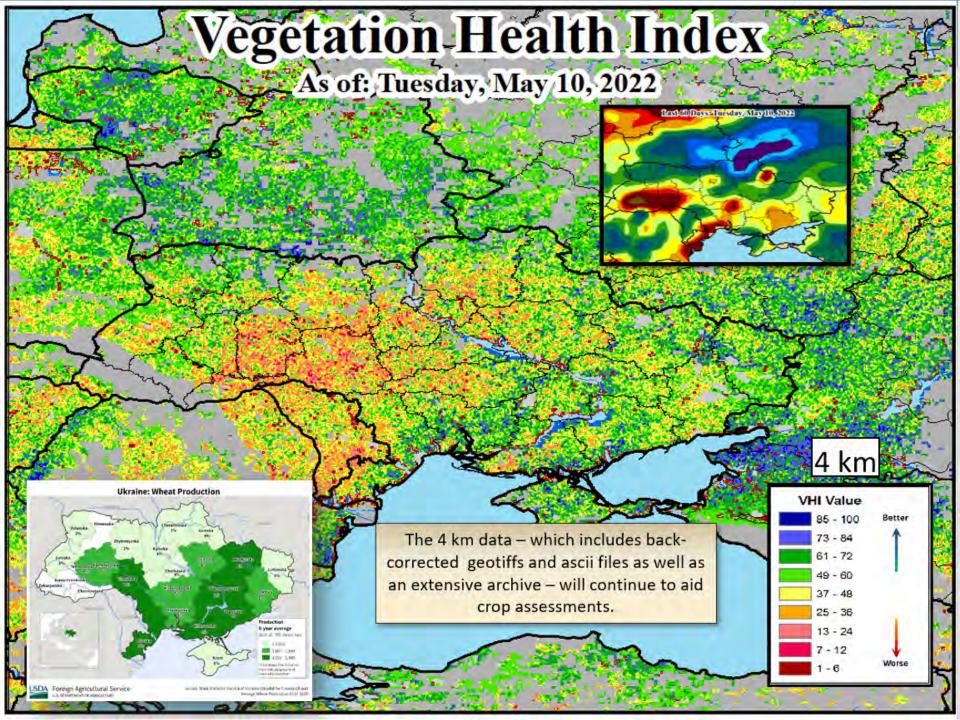


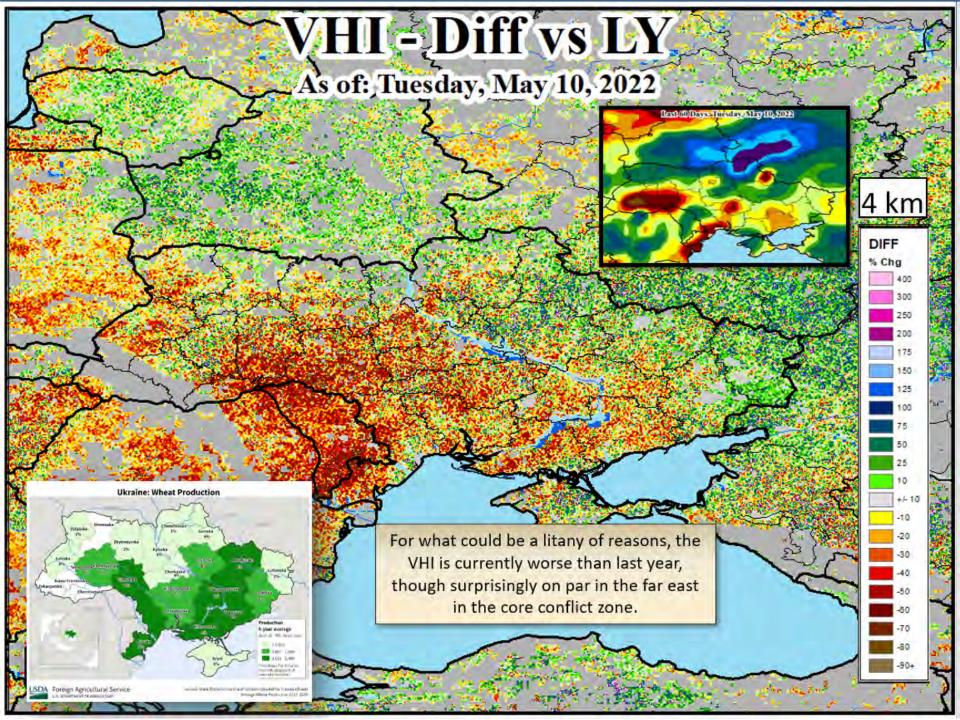
Ukraine Winter Wheat Planted Area Overlaid with Conflict



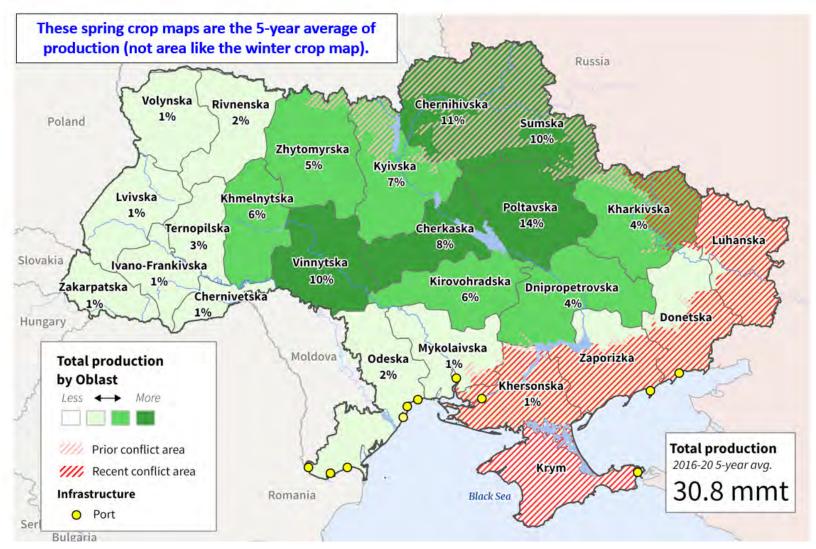
Ukraine: Mineral Fertilizer Applied to Wheat



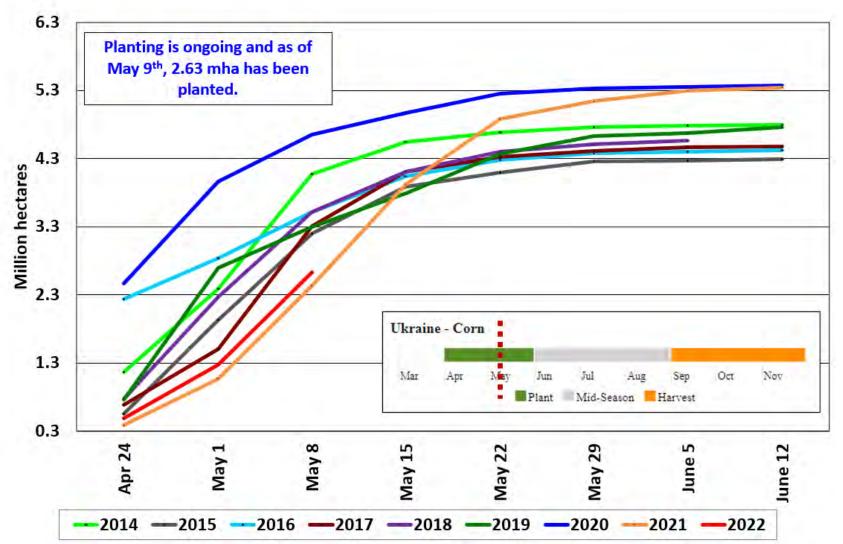




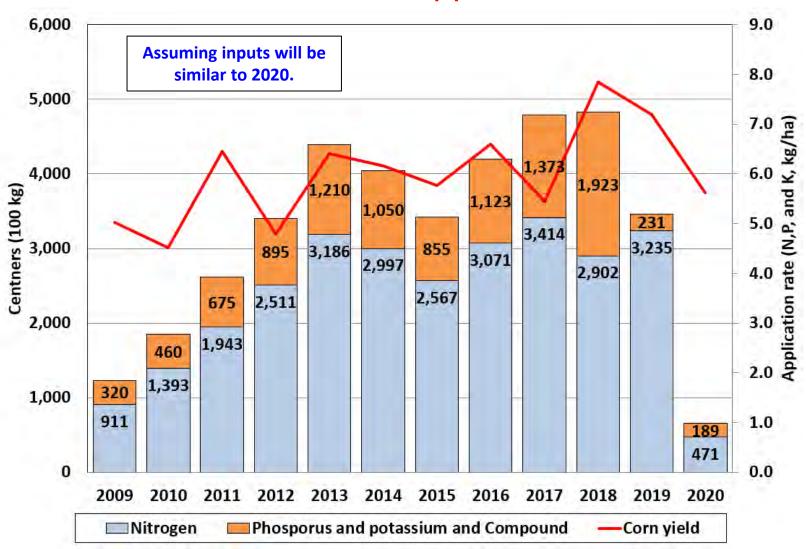
Ukraine: Corn Production and Conflict Areas



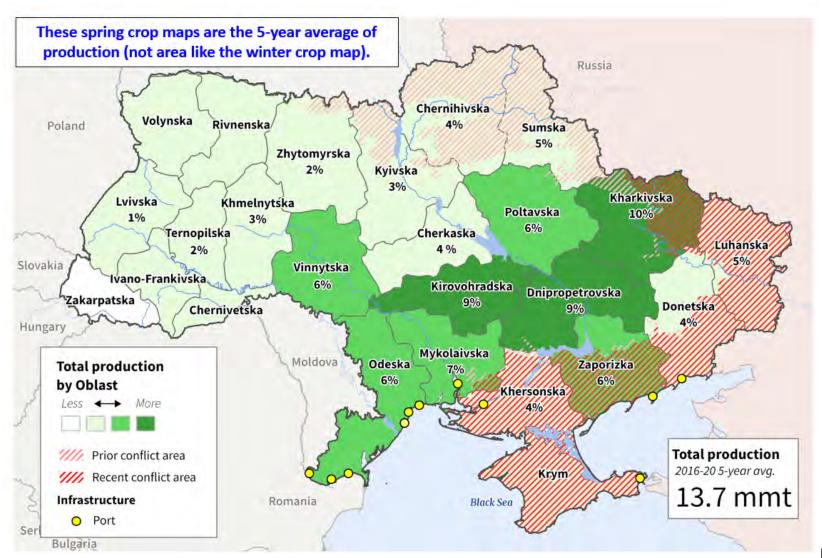
Ukraine Corn Planting Progress



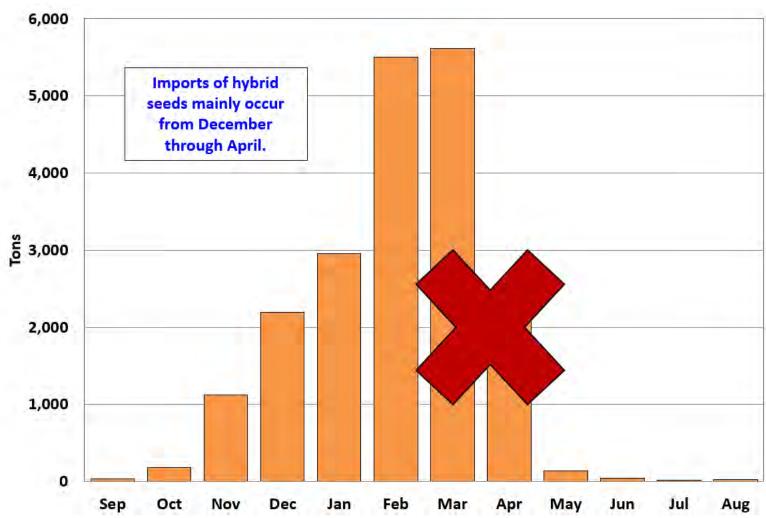
Ukraine: Mineral Fertilizer Applied to Corn



Ukraine: Sunflower Seed Production and Conflict Areas

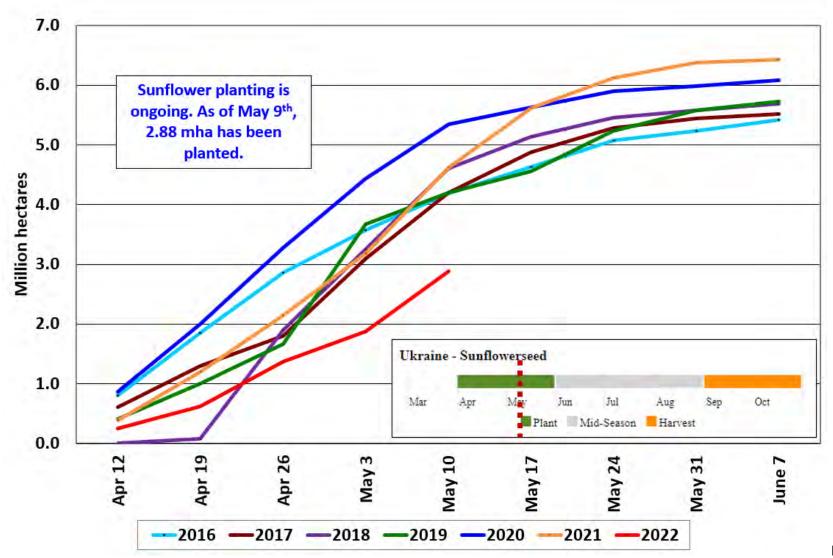


Ukraine Sunflowerseed: Average Monthly Hybrid Seed Imports (2012-2021)



Source: Trade Data Monitor

Ukraine Sunflower Planting Progress



Ukraine Crop Production: Corn, Sunflowers, and Wheat



World Wheat Production

	2021/2022		2022/2023		
		Change from		Change from	
Country or Region	Estimate	April 8	Forecast	2021/2022	
	Million Tons				
World	779.3	0.5	774.8	-4.5	
United States	44.8		47.0	2.3	
Foreign	734.5	0.5	727.8	-6.7	
Argentina	22.2	1.2	20.0	-2.2	
Canada	21.7		33.0	11.3	
Australia	36.3		30.0	-6.3	
European Union	138.4		136.5	-1.9	
Turkey	16.0	-0.2	17.5	1.5	
Russia	75.2		80.0	4.8	
Ukraine	33.0	**	21.5	-11.5	
Kazakhstan	11.8		13.0	1.2	
China	136.9		135.0	-1.9	
India	109.6		108.5	-1.1	
Northwest Africa	11.2	-1.2	7.2	-4.0	

⁻⁻ No change. **Rounds to zero.

World Wheat Supply and Use

	202	2021/2022		2022/2023		
		Change from		Change from		
Item	Estimate	April 8	Forecast	2021/2022		
	Million Tons					
Beginning stocks	291.2	0.6	279.7	-11.5		
Production	779.3	0.5	774.8	-4.5		
Total Supply	1,070.5	1.0	1,054.5	-16.0		
Feed use	161.0	-1.2	153.5	-7.5		
Total use	790.8	-0.3	787.5	-3.3		
Trade	199.9	-0.2	204.9	5.0		
Ending Stocks	279.7	1.3	267.0	-12.7		

U.S. Wheat Supply and Demand

	2021/2022		2022/2023		
		Change from		Change from	
ltem	Estimate	April 8	Forecast	2021/2022	
Planted area (million acres)	46.7		47.4	0.6	
Harvested area (million acres)	37.2		37.1	-0.1	
Yield (bushels per acre)	44.3		46.6	2.4	
	Million bushels				
Beginning stocks	845		655	-190	
Production	1,646		1,729	83	
Imports	95		120	25	
Total supply	2,586		2,504	-82	
Food use	962	3	964	2	
Seed	64		66	2	
Feed and residual	100		80	-20	
Domestic use	1,126	3	1,110	-16	
Exports	805	20	775	-30	
Total use	1,931	23	1,885	-46	
Ending stocks	655	-23	619	-36	
	Percent				
Stocks to use ratio	33.9	-1.6	32.8	-1.1	
	Dollars per bushel				
Average market price	7.70	0.10	10.75	3.05	

⁻⁻ No change.

World Rice Production

	202	1/2022	2022/2023		
	Change from			Change from	
Country or Region	Estimate	April 8	Forecast	2021/2022	
		Millior	n Tons		
World	512.9	-0.2	514.6	1.8	
United States	6.1		5.8	-0.3	
Foreign	506.8	-0.2	508.8	2.1	
Argentina	0.8	-0.1	0.8	**	
Brazil	7.1		7.1	**	
Egypt	2.9		2.9		
Australia	0.47		0.58	0.11	
Bangladesh	35.9		36.0	0.2	
Burma	12.4	-0.2	12.5	0.1	
Cambodia	5.9	**	5.9	0.1	
China	149.0		149.0	**	
India	129.0		130.0	1.0	
Indonesia	34.4		34.6	0.2	
Japan	7.6	0.1	7.5	-0.1	
Sri Lanka	2.9		3.0	0.1	
Pakistan	8.7		8.9	0.2	
Philippines	12.5	0.1	12.4	-0.1	
Thailand	19.7	**	19.8	0.2	
Vietnam	27.3	0.1	27.4	0.1	

⁻⁻ No change. **Rounds to zero.

World Rice Supply and Use

	2021/2022		2022/2023		
	Change from			Change from	
Item	Estimate	April 8	Forecast	2021/2022	
	Million Tons				
Beginning stocks	187.8	0.8	190.1	2.3	
Production	512.9	-0.2	514.6	1.8	
Total Supply	700.7	0.7	704.7	4.0	
Total use	510.6	-0.6	518.4	7.8	
Trade	52.6	0.2	54.2	1.6	
Ending Stocks	190.1	1.2	186.3	-3.8	

U.S. Rice Supply and Demand

	2021/2022		2022/2023		
		Change from		Change from	
Item	Estimate	April 8	Forecast	2021/2022	
Planted area (million acres)	2.53	_	2.45	-0.08	
Harvested area (million acres)	2.49		2.41	-0.08	
Yield (pounds per acre)	7,709		7,596	-113	
	Million cwt				
Beginning stocks	43.7		37.5	-6.2	
Production	191.8		182.7	-9.1	
Imports	34.5	4.0	38.0	3.5	
Total supply	270.0	4.0	258.2	-11.8	
Domestic use	147.5	2.0	143.0	-4.5	
Exports	85.0	-1.0	82.0	-3.0	
Total use	232.5	1.0	225.0	-7.5	
Ending stocks	37.5	3.0	33.2	-4.3	
	Percent				
Stocks to use ratio	16.1	1.2	14.7	-1.4	
	Dollars per cwt				
Average market price	15.70		17.80	2.10	

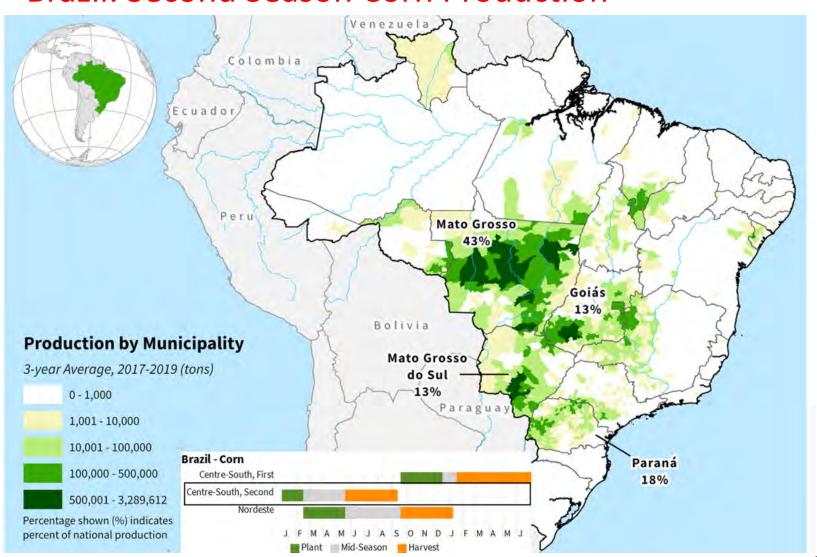
⁻⁻ No change.

World Corn Production

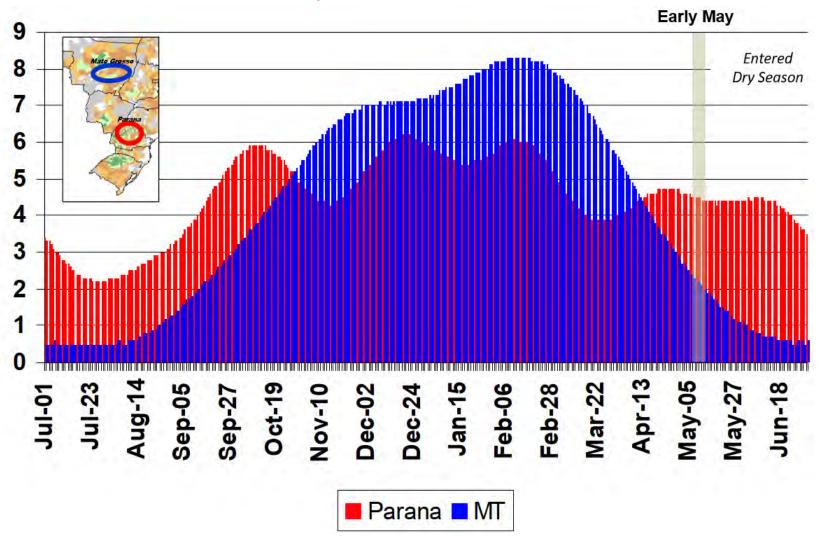
	2021/2022		2022/2023		
		Change from		Change from	
Country or Region	Estimate	April 8	Forecast	2021/2022	
		Millio	n Tons		
World	1,215.6	5.2	1,180.7	-34.9	
United States	383.9		367.3	-16.6	
Foreign	831.7	5.2	813.4	-18.3	
Argentina	53.0		55.0	2.0	
Brazil	116.0		126.0	10.0	
Mexico	27.6		27.6		
Canada	14.0		14.0	**	
European Union	70.5		68.3	-2.2	
Serbia	6.0	-0.2	7.2	1.2	
FSU-12	63.6	0.3	40.2	-23.3	
Ukraine	42.1	0.2	19.5	-22.6	
Russia	15.2		15.5	0.3	
South Africa	16.3		17.3	1.0	
China	272.6		271.0	-1.6	
India	32.5		31.5	-1.0	

-- **No change.** May 12, 2022

Brazil: Second Season Corn Production

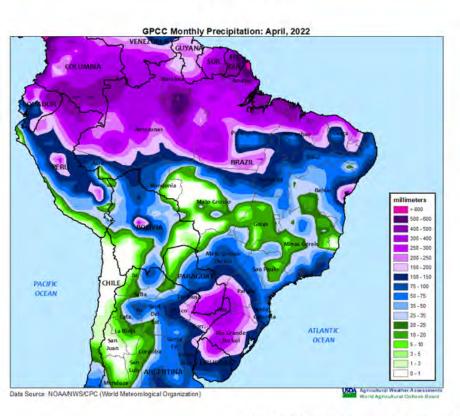


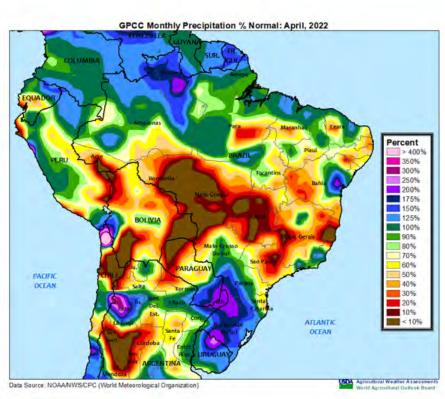
Brazil: Normal Daily Rainfall (mm)



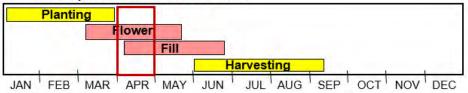
Total Precipitation (mm) April 2022

Percent of Normal Precipitation (%) April 2022



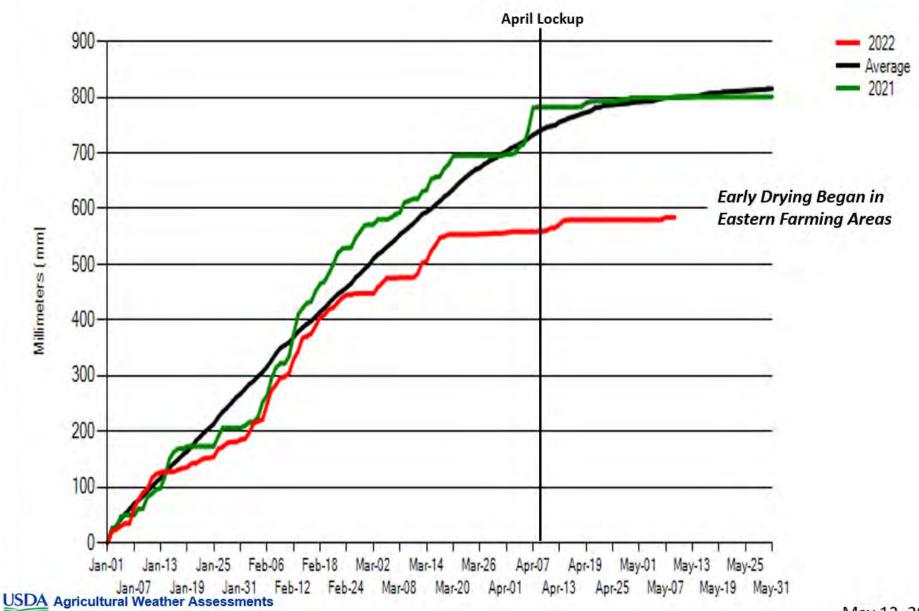


2nd Corn crop calendar for most of Brazil



8 - GOIAS

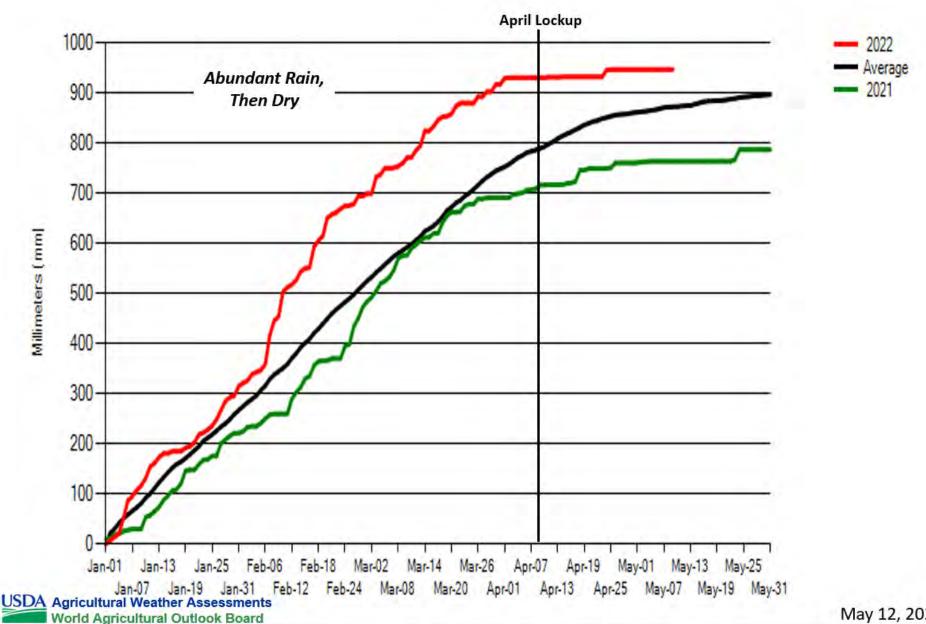
Cumulative Precipitation



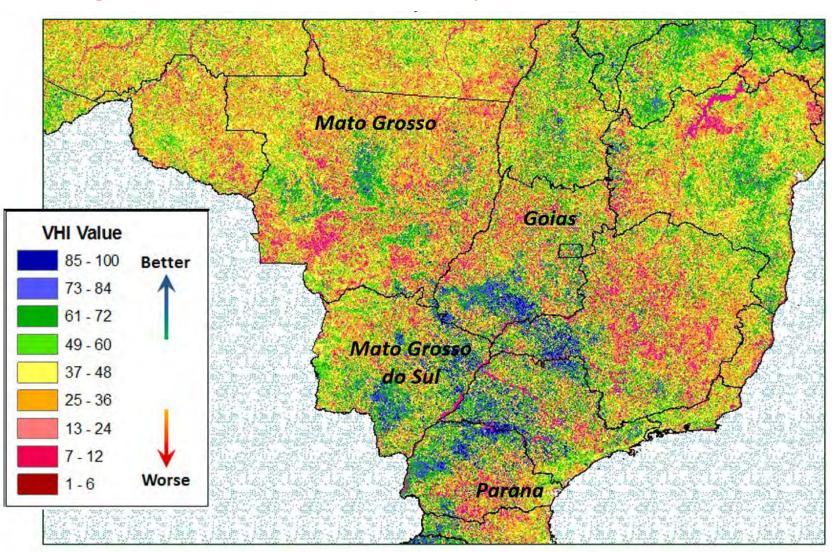
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7-MATO GROSSO

Cumulative Precipitation



Vegetative Health Index May 8, 2022



World Corn Supply and Use

	202	2021/2022		2/2023	
	Change from			Change from	
Item	Estimate	April 8	Forecast	2021/2022	
	Million Tons				
Beginning stocks	293.2	1.0	309.4	16.2	
Production	1,215.6	5.2	1,180.7	-34.9	
Total Supply	1,508.8	6.2	1,490.1	-18.7	
Feed use	750.0	-2.6	746.6	-3.4	
Total use	1,199.4	2.3	1,185.0	-14.4	
Trade	197.8	0.8	182.7	-15.1	
Ending Stocks	309.4	3.9	305.1	-4.3	

U.S. Corn Supply and Demand

	2021/2022		202	2/2023	
		Change from		Change from	
Item	Estimate	April 8	Forecast	2021/2022	
Planted area (million acres)	93.4		89.5	-3.9	
Harvested area (million acres)	85.4		81.7	-3.7	
Yield (bushels per acre)	177.0		177.0	**	
	Million bushels				
Beginning stocks	1,235		1,440	205	
Production	15,115		14,460	-655	
Imports	25		25		
Total supply	16,375		15,925	-450	
Feed and residual	5,625		5,350	-275	
Food, seed, and industrial	6,810		6,815	5	
Ethanol	5,375		5,375		
Domestic use	12,435		12,165	-270	
Exports	2,500		2,400	-100	
Total use	14,935		14,565	-370	
Ending stocks	1,440		1,360	-80	
	Percent				
Stocks to use ratio	9.6		9.3	-0.3	
	Dollars per bushel				
Average market price	5.90	0.10	6.75	0.85	

⁻⁻ No change.

World Soybean Production

	2021/2022		2022/2023		
		Change from		Change from	
Country or Region	Estimate	April 8	Forecast	2021/2022	
	Million Tons				
World	349.4	-1.3	394.7	45.3	
United States	120.7		126.3	5.6	
Foreign	228.7	-1.3	268.4	39.8	
Argentina	42.0	-1.5	51.0	9.0	
Brazil	125.0		149.0	24.0	
Paraguay	4.2		10.0	5.8	
Canada	6.3		6.3	**	
India	11.9		11.5	-0.4	
China	16.4		17.5	1.1	

⁻⁻ No change. **Rounds to zero.

World Soybean Supply and Use

	2021/2022		202	2/2023
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
		Millior	Tons	
Beginning stocks	99.9	-3.2	85.2	-14.7
Production	349.4	-1.3	394.7	45.3
Total Supply	449.3	-4.6	479.9	30.7
Crush	313.7	0.8	326.8	13.1
Total use	362.9	1.1	377.4	14.5
Trade	155.6	0.3	170.0	14.4
Ending Stocks	85.2	-4.3	99.6	14.4
Addendum				
Beginning stocks				
Argentina plus Brazil	54.5		40.7	-13.8
Imports*				
China	92.0	1.0	99.0	7.0

^{*}From all sources.

⁻⁻ No change.

U.S. Soybean Supply and Demand

	2021/2022		2022/2023		
		Change from		Change from	
Item	Estimate	April 8	Forecast	2021/2022	
Planted area (million acres)	87.2		91.0	3.8	
Harvested area (million acres)	86.3		90.1	3.8	
Yield (bushels per acre)	51.4		51.5	0.1	
		Million l	bushels		
Beginning stocks	257		235	-22	
Production	4,435		4,640	205	
Imports	15		15	0	
Total supply	4,707		4,890	183	
Crush	2,215		2,255	40	
Seed and Residual	117		125	8	
Domestic use	2,332		2,380	48	
Exports	2,140	25	2,200	60	
Total use	4,472	25	4,580	108	
Ending stocks	235	-25	310	75	
	Percent				
Stocks to use ratio	5.3	-0.6	6.8	1.5	
	Dollars per bushel				
Average market price	13.25		14.40	1.15	

⁻⁻ No change.

U.S. Soybean Oil Supply and Demand

	2021/2022		202	2/2023
	Change from			Change from
Item	Estimate	April 8	Forecast	2021/2022
		Million	pounds	
Beginning stocks	2,131		1,976	-155
Production	26,205		26,430	225
Imports	450		500	50
Total supply	28,786		28,906	120
Domestic disappearance	25,085		25,800	715
Biofuel	10,700		12,000	1,300
Food, feed, other	14,385		13,800	-585
Exports	1,725		1,400	-325
Total use	26,810		27,200	390
Ending stocks	1,976		1,706	-270
	Cents per pound			
Average market price	75.00	5.00	70.00	-5.00

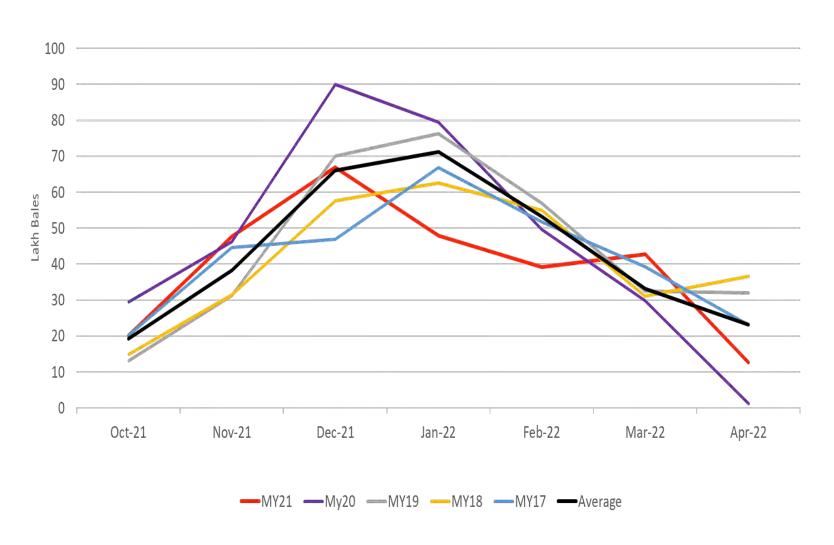
⁻⁻ No change.

World Cotton Production

	2021/2022		2022/2023	
		Change from		Change from
Country or Region	Estimate	April 8	Forecast	2021/2022
		Million	bales	
World	118.4	-1.8	121.1	2.6
United States	17.5	-0.1	16.5	-1.0
Foreign	100.9	-1.6	104.6	3.6
Argentina	1.5		1.4	-0.2
Brazil	13.2		13.2	
Turkey	3.8		4.3	0.5
Australia	5.5		5.5	
China	27.0		27.5	0.5
India	25.5	-1.0	27.5	2.0
Pakistan	6.0		6.2	0.2
Uzbekistan	2.8	-0.7	3.0	0.3
Turkmenistan	0.9		0.9	
African Franc Zone	6.2	**	6.2	**

⁻⁻ No change. **Rounds to zero.

Cotton Arrivals by Lakh Bales (India)



World Cotton Supply and Demand

	2021/2022		2022/2023		
		Change from		Change from	
Item	Estimate	April 8	Forecast	2021/2022	
	Million bales				
Beginning stocks	88.1	0.7	83.6	-4.4	
Production	118.4	-1.8	121.1	2.6	
Total Supply	206.5	-1.0	204.7	-1.8	
Consumption	122.9	-1.1	122.0	-1.0	
Trade	45.5	-0.3	47.6	2.0	
Ending Stocks	83.6	0.3	82.8	-0.8	
Addendum					
China ending stocks	36.5	0.1	36.4	**	

^{**} Rounds to zero.

U.S. Cotton Supply and Demand

	2021/2022		202	2022/2023	
		Change from		Change from	
Item	Estimate	April 8	Forecast	2021/2022	
Planted area (million acres)	11.22	**	12.23	1.02	
Harvested area (million acres)	10.27	0.30	9.14	-1.14	
Yield (pounds per acre)	819	-30	867	48	
	Million bales				
Beginning stocks	3.15		3.40	0.25	
Production	17.52	-0.10	16.50	-1.02	
Imports	0.01		0.01		
Total supply	20.68	-0.10	19.91	-0.77	
Mill use	2.55		2.50	-0.05	
Exports	14.75		14.50	-0.25	
Total use	17.30		17.00	-0.30	
Unaccounted	-0.02	**	0.01	0.03	
Ending stocks	3.40	-0.10	2.90	-0.50	
	Percent				
Stocks to use ratio	19.7	-0.6	17.1	-2.6	
	Cents per pound				
Average market price	92.00	1.00	90.00	-2.00	

⁻⁻ No change. **Rounds to zero.

U.S. Sugar Supply and Demand

	2021/2022		202	2/2023
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
]	Thousand short	tons, raw va	lue
Beginning Stocks	1,705		1,813	108
Production	9,229	-80	9,040	-189
Beets	5,254	-85	5,000	-254
Cane	3,976	4	4,040	64
Imports	3 <i>,</i> 469	411	3,003	-467
TRQ	1,727	160	1,379	-348
Re-export	300	50	250	-50
Mexico	1,220	170	1,323	103
High-tier	221	32	50	-171
Total Supply	14,403	331	13,856	-547
Exports	35		35	
Domestic deliveries	12,555	85	12,555	
Total use	12,590	85	12,590	
Ending stocks	1,813	246	1,266	-547
		Perd	ent	
Stocks/use ratio	14.4	1.9	10.1	-4.3

⁻⁻ No change. May 12, 2022

Mexico Sugar Supply and Demand

	202	1/2022	2022/2023	
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
		Thousand I	 metric tons	
		IIIOUSUIIU I		
Beginning Stocks	1,053		921	-132
Production	6,167		6,000	-167
Imports	50		50	
Total Supply	7,270		6,971	-299
Domestic Use	4,412		4,422	9
Exports	1,937	-2	1,628	-308
Total use	6,349	-2	6,050	-299
Ending stocks	921	2	921	

⁻⁻ No change.

U.S. Meat Production and Prices

	2022		2023		
		Change from		Change from	
Item	Forecast	April 8	Forecast	2022	
Production		Billion	Pounds		
Beef	27.84	0.13	25.95	-1.89	
Pork	27.04	-0.04	27.37	0.33	
Broilers	45.42	0.22	45.68	0.26	
Turkey	5.36	-0.11	5.65	0.29	
Total Meat	106.38	0.21	105.34	-1.04	
Prices	-	Dollars	per cwt		
Steers	140.06	0.75	153.25	13.19	
Hogs	71.14	-1.75	70.50	-0.64	
	Cents per pound				
Broilers	155.0	7.0	148.8	-6.3	
Turkey	141.6	5.5	138.0	-3.6	

U.S. Meat Trade

Million Pounds

	2022		2023	
	Change from			Change from
Item	Forecast	April 8	Forecast	2022
	Exports			
Beef	3,356	56	2,930	-426
Pork	6,581	-14	6,510	-71
Broilers	7,376	11	7,465	89
Turkey	372	-3	395	23
Mature chickens	48	**	48	0
Total Meat	17,737	50	17,352	-385
	Imports			
Beef	3,545	105	3,200	-345

^{**} Rounds to zero.

U.S. Milk Supply and Demand

	2022		2023	
	Change from			Change from
Item	Forecast	April 8	Forecast	2022
		Billion	pounds	
Production	226.7	0.3	229.5	2.8
Fat Basis				
Imports	6.6	0.2	6.6	0.0
Commercial use	221.6	-0.1	222.8	1.2
Exports	12.0	0.5	11.5	-0.5
Skim-solid Basis				
Imports	5.9	0.1	6.0	0.0
Commercial use	181.7	0.9	182.7	1.0
Exports	49.9	-0.4	51.0	1.1

U.S. Dairy Product Prices

	2022		2	2023
		Change from Cl		Change from
Item	Forecast	April 8	Forecast	2022

Product prices	Dollars per pound				
Cheese	2.17	0.02	2.04	-0.14	
Butter	2.65	0.01	2.35	-0.30	
Nonfat dry milk	1.72	-0.03	1.58	-0.14	
Dry whey	0.65	-0.04	0.52	-0.14	
Class prices		Dollars	per cwt		
Class III	22.75		20.50	-2.25	
Class IV	23.80	-0.25	21.40	-2.40	
All milk	25.75	-0.05	23.55	-2.20	

⁻⁻ No change.

U.S. Production Summary

	2021/2022		2022/2023	
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
Crops and Products				
•	1.646		4 720	03
Wheat (million bushels)	1,646		1,729	83
Rice (million cwt)	191.8		182.7	-9.1
Corn (million bushels)	15,115		14,460	-655
Sorghum (million bushels)	448		381	-67
Barley (million bushels)	118		181	63
Oats (million bushels)	40		59	19
Soybeans (million bushels)	4,435		4,640	205
Soybean oil (million pounds)	26,205		26,430	225
Soybean meal (thousand s.t.)	51,859		53,050	1,191
Cotton (million bales)	17.52	-0.10	16.50	-1.02
Sugar (thousand s.t., raw value	9,229	-80	9,040	-189
Milk (billion pounds)	226.7	0.3	229.5	2.8
Meat (billion pounds)				
Beef	27.84	0.13	25.95	-1.89
Pork	27.04	-0.04	27.37	0.33
Broilers	45.42	0.22	45.68	0.26
Turkey	5.36	-0.11	5.65	0.29
Total Meat	106.38	0.21	105.34	-1.04

-- No change. May 12, 2022

U.S. Consumption Summary

	2021/2022		2022/2023	
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
Crops and Products				
Wheat (million bushels)	1,126	3	1,110	-16
Rice (million cwt)	147.5	2.0	143.0	-4.5
Corn (million bushels)	12,435		12,165	-270
Sorghum (million bushels)	135	5	105	-30
Barley (million bushels)	135		160	25
Oats (million bushels)	125		146	21
Soybeans (million bushels)	2,332		2,380	48
Soybean oil (million pounds)	25,085		25,800	715
Soybean meal (thousand s.t.)	38,300	200	39,000	700
Cotton (million bales)	2.55		2.50	-0.05
Sugar (thousand s.t., raw value	12,555	85	12,555	
Milk (billion pounds, fat basis)	221.6	-0.1	222.8	1.2
Meat (Billion pounds)				
Beef	28.10	0.17	26.32	-1.78
Pork	21.83	-0.05	22.29	0.47
Broilers	37.69	0.22	37.87	0.18
Turkey	5.03	-0.09	5.26	0.23
Total Meat	93.68	0.23	92.78	-0.90

⁻⁻ No change.

U.S. Export Summary

	2021/2022		2022/2023	
		Change from		Change from
Item	Estimate	April 8	Forecast	2021/2022
Crops and Products				
Wheat (million bushels)	805	20	775	-30
Rice (million cwt)	85.0	-1.0	82.0	-3.0
Corn (million bushels)	2,500		2,400	-100
Sorghum (million bushels)	300	-10	285	-15
Soybeans (million bushels)	2,140	25	2,200	60
Soybean oil (million pounds)	1,725		1,400	-325
Soybean meal (thousand s.t.)	14,000	-200	14,400	400
Cotton (million bales)	14.75		14.50	-0.25
Meat (Million Ibs)				
Beef	3,356	56	2,930	-426
Pork	6,581	-14	6,510	-71
Broilers	7,376	11	7,465	89
Turkey	372	-3	395	23
Mature Chickens	48	**	48	0
Total Meat	17,737	50	17,352	-385

⁻⁻ No change. ** Rounds to zero.

Price Summary

2021/2022		2022/2023	
	Change from		Change from
Estimate	April 8	Forecast	2021/2022
7.70	0.10	10.75	3.05
15.70		17.80	2.10
5.90	0.10	6.75	0.85
13.25		14.40	1.15
75.00	5.00	70.00	-5.00
420		400	-20
92.00	1.00	90.00	-2.00
140.06	0.75	153.25	13.19
71.14	-1.75	70.50	-0.64
155.0	7.0	148.8	-6.3
141.6	5.5	138.0	-3.6
2.17	0.02	2.04	-0.14
2.65	0.01	2.35	-0.30
1.72	-0.03	1.58	-0.14
0.65	-0.04	0.52	-0.14
22.75		20.50	-2.25
23.80	-0.25	21.40	-2.40
25.75	-0.05	23.55	-2.20
	7.70 15.70 5.90 13.25 75.00 420 92.00 140.06 71.14 155.0 141.6 2.17 2.65 1.72 0.65	Thange from April 8 7.70	Change from April 8 Forecast 7.70 0.10 10.75 15.70 17.80 5.90 0.10 6.75 13.25 14.40 75.00 5.00 70.00 420 400 92.00 1.00 90.00 140.06 0.75 153.25 71.14 -1.75 70.50 155.0 7.0 148.8 141.6 5.5 138.0 2.17 0.02 2.04 2.65 0.01 2.35 1.72 -0.03 1.58 0.65 -0.04 0.52 22.75 20.50 23.80 -0.25 21.40

⁻⁻ No change.

May 12, 2022