United States Department of Agriculture

Foreign Agricultural Service

Circular Series
WAP 5-23
May 2023

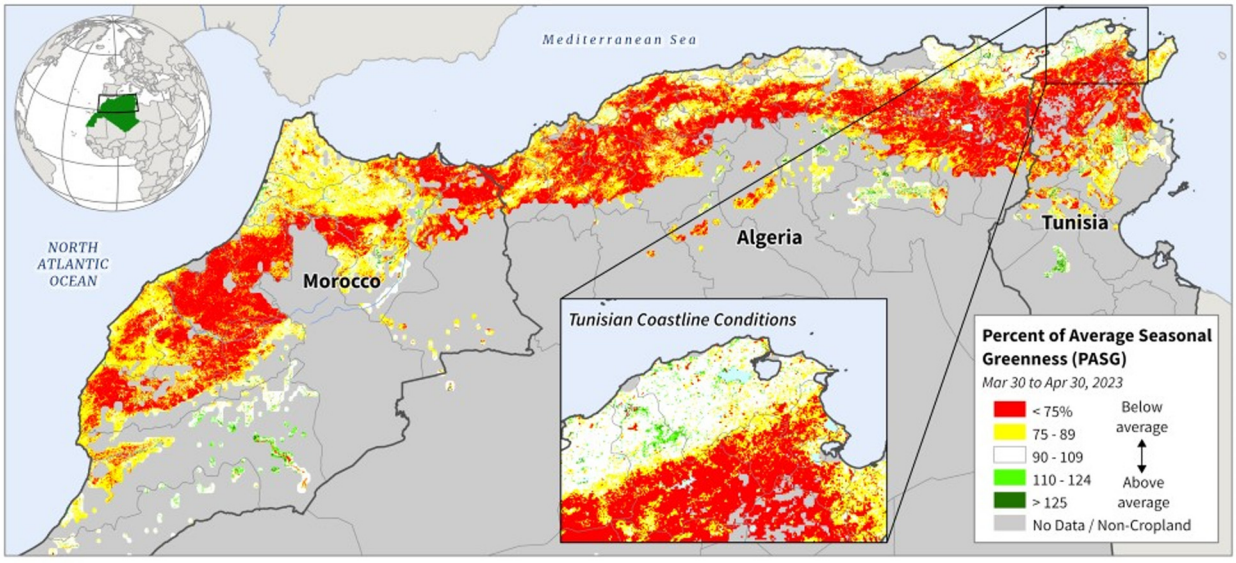
World Agricultural Production

Northwest Africa Wheat: Weather Problems Lead to Another Below-Average Maghreb Wheat Crop in MY 2023/24

Northwest Africa (Morocco, Algeria, Tunisia) marketing year (MY) 2023/24 wheat production is estimated to be low for a second consecutive year. Later than normal rains during planting, and drought and heat during much of the season contributed to this unfavorable outlook. This season will be the fourth of the last 5 years that is below average, with MY 2021/2022 being the remarkably good year and last year being an exceptionally poor year. The combined total production for these three countries in the Maghreb region is forecast at 7.3 million metric tons (mmt) versus 7.6 mmt last year and 11.2 mmt in MY 2021/2022. Sub-par weather prevailed almost entirely across the region during the crop growing season. Rainfall, the limiting variable, was both minimal and infrequent in most areas of Northwest Africa. The satellite-derived Percent Average Seasonal Greenness (PASG) image shows the extent of the poor vegetation health across the region.

Northwest Africa: Wheat-Growing Area PASG

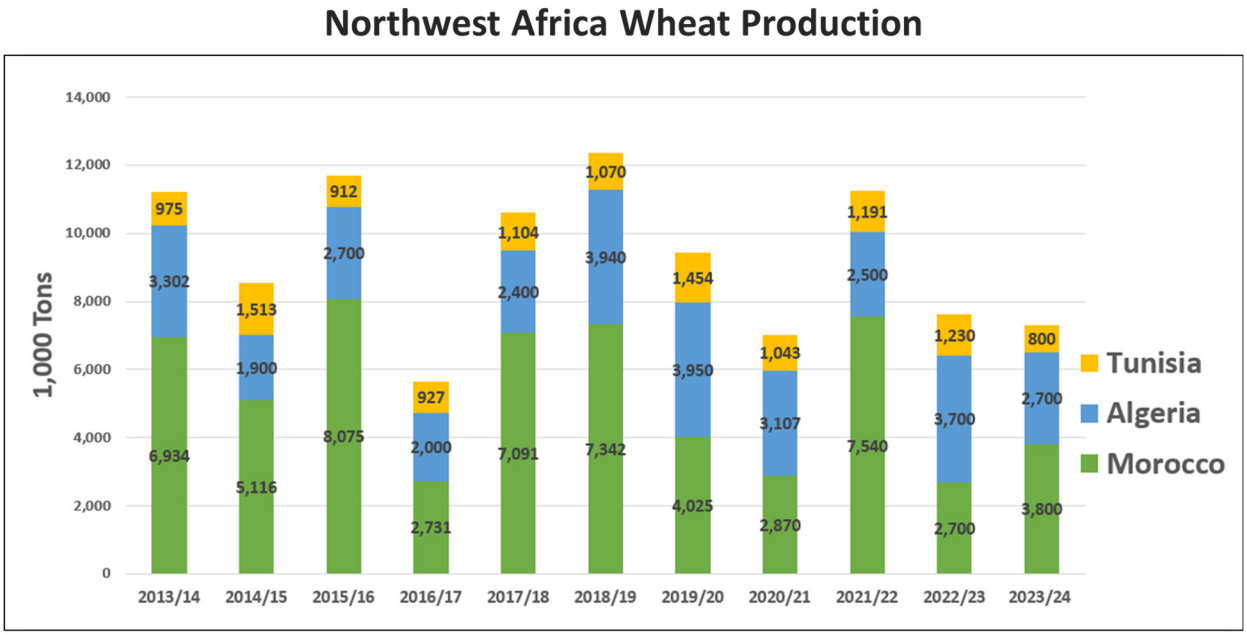
Mar 30 to Apr 30, 2023 (1-Month Average)



Sources: NASA/GSFC/GIMMS Visible Infrared Imaging Radiometer Suite (VIIRS) Percent of Average Seasonal Greenness (PASG); IFPRI SPAM Wheat Crop Mask

Morocco is the dominant producer of the three countries. It is estimated to produce 3.8 mmt of wheat compared to 2.7 mmt last year. Early winter precipitation benefitted the crop, however, limited spring rainfall impeded recovery. Yield is estimated at 1.49 tons per hectare (t/ha), above

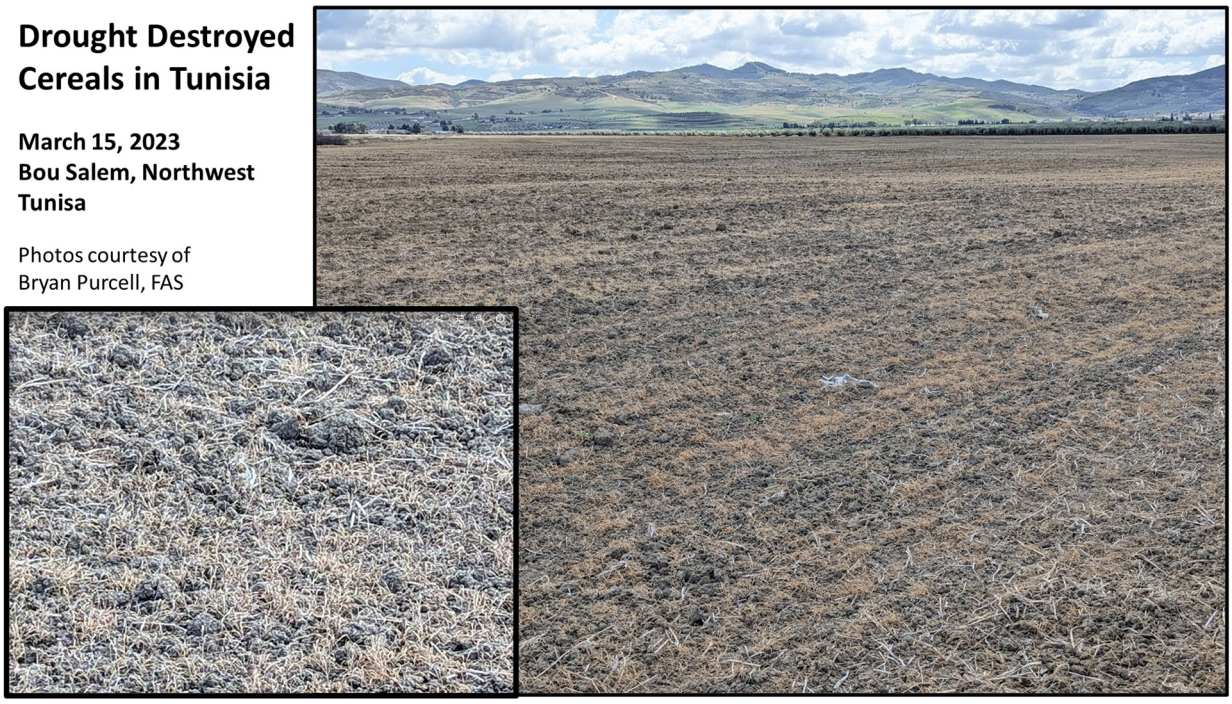
last year's abysmal 1.08 t/ha. Rains arrived late in Morocco, lowering seeding rates and creating sub-optimal conditions. Except for early winter rains, Morocco was especially dry all season; in general, the farther south, the drier the conditions and the poorer the crops. Several years of poor weather has lowered Morocco's 5-year production average to 4.9 mmt. Harvested area for MY 2023/24 is estimated at 2.6 million hectares (mha,) slightly above last year, but 5 percent below the 5-year average.



Source: USDA PSD Online

Algeria is forecast to produce just 2.7 mmt from 2.1 mha, with a 1.30 t/ha yield. This compares unfavorably to MY 2022/23, with 3.7 mmt, similar area, and a yield of 1.78 t/ha. The MY 2023/24 crop is estimated to be 21 percent below the 5-year average production. Algeria, also starved for moisture, saw little relief to salvage its crop during the season. The crops doing the best in Algeria are in the eastern highlands, where rainfall was most frequent and vegetation vigor was the highest.

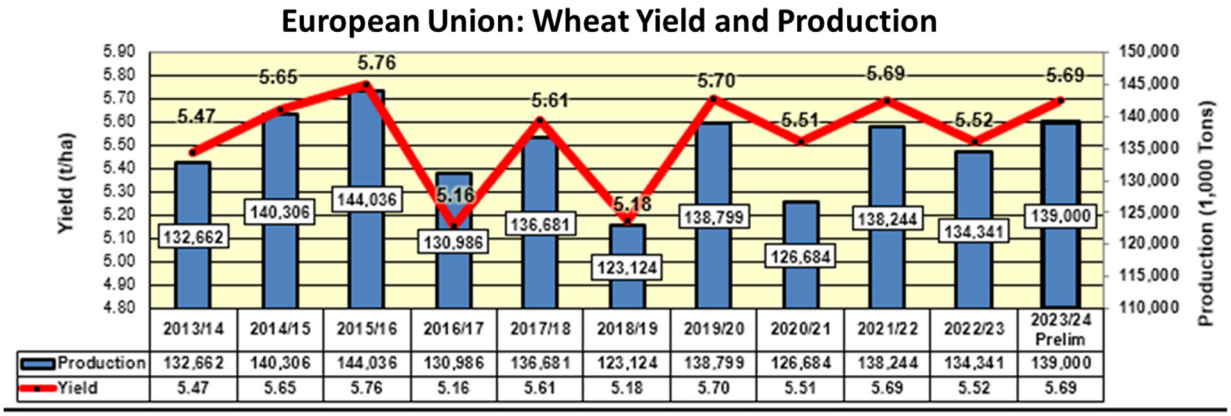
Tunisia's arable land is the smallest of these three Maghreb countries, with total harvested area dropping 19 percent below the 5-year average to 435,000 hectares. Production is forecast at 0.8 mmt, down 0.4 mmt or 35 percent from last year, and down 33 percent from the 5-year average. Yield is forecast at 1.84 t/ha, down 24 percent from last year and 17 percent from the 5-year average. An interesting dynamic has set-up where a very narrow band of healthy wheat exists along a swath of the northern coast. Sufficient rainfall in the far north has kept this area's portion of Tunisia's grain crop healthy. Conversely, the area to the south is in extremely poor condition due to a substantial lack of soil moisture. Crop travel to the region by FAS staff in March 2023 underscored the dire effects experienced in Tunisia's large, central growing region. Visits with farmers in this region, who had already lost their crop due to the drought, were left with the less-than-ideal options of either collecting any surviving grain for next year's planting seeds, or having the marginal crop grazed off by livestock. In many cases, there was no option; the plants were already dead as seen in the photograph of fields near Bou Salem, Tunisia. The inset in the Northwest Africa: Wheat-Growing Area PASG map details the small area of favorable crops in northern Tunisia.

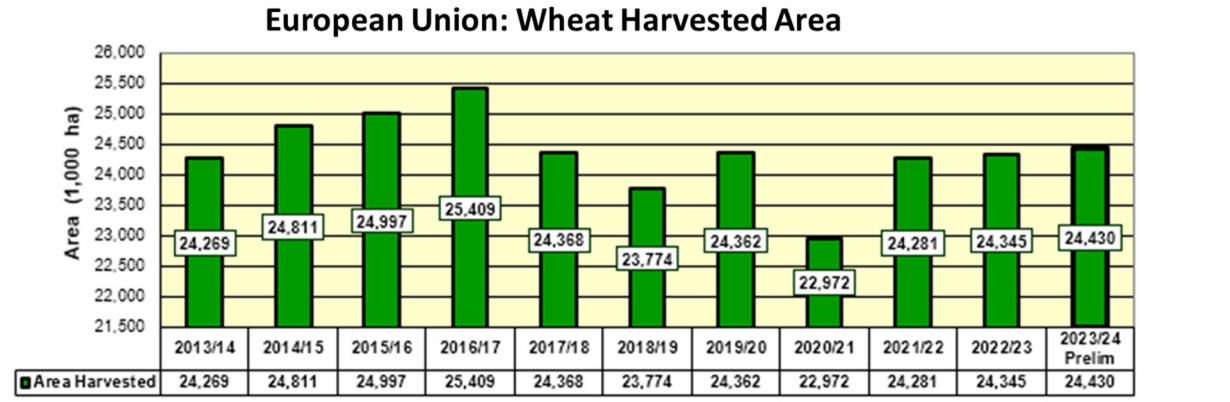


Harvest begins in southern Morocco in May, progressing north and east into Algeria and Tunisia. The bulk of wheat production in North Africa is harvested by the end of June. *(For more information, please contact Bryan.Purcell@usda.gov.)*

European Union Wheat: Favorable Conditions for MY 2023/24 Except the Iberian Peninsula

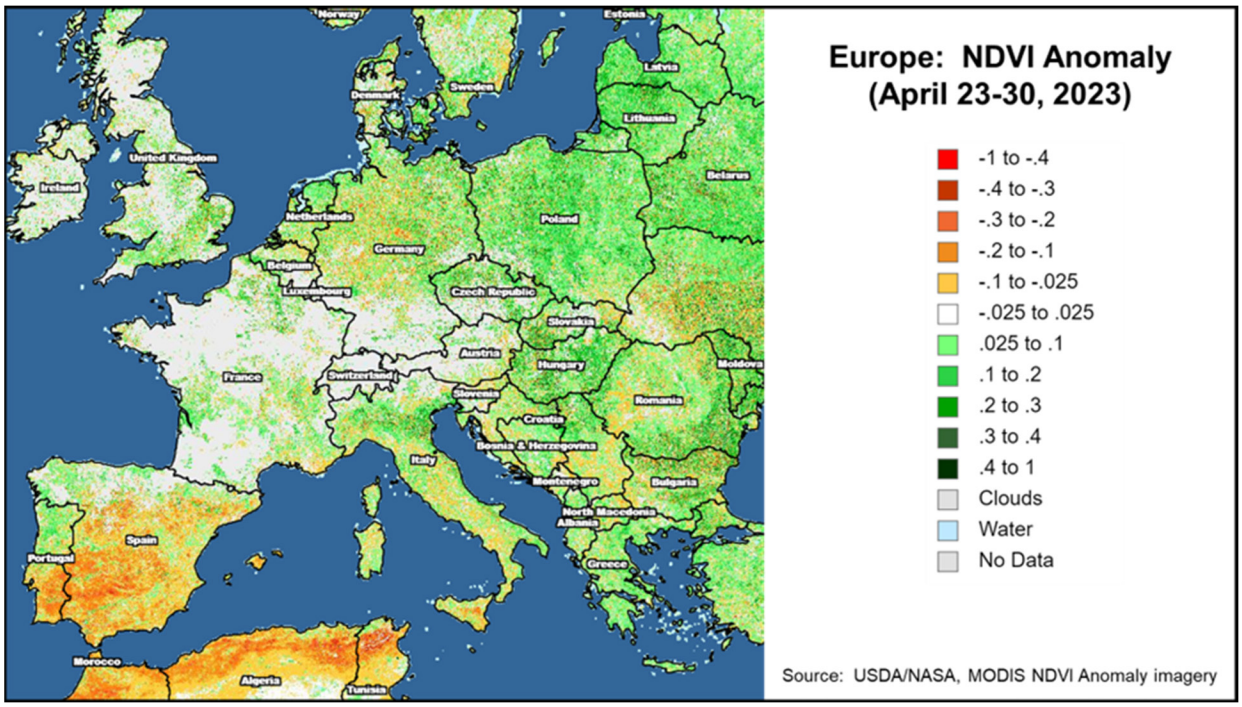
Wheat production in the European Union (EU) for marketing year (MY) 2023/2024 is estimated at 139.0 million metric tons (mmt), up 3 percent from last year, and 5 percent above the 132.2 mmt 5-year average. Harvested area is estimated at 24.4 million hectares (mha), up slightly from last year and 2 percent above the 5-year average. Yield is estimated at 5.69 tons per hectare, 3 percent above last year and the 5-year average.



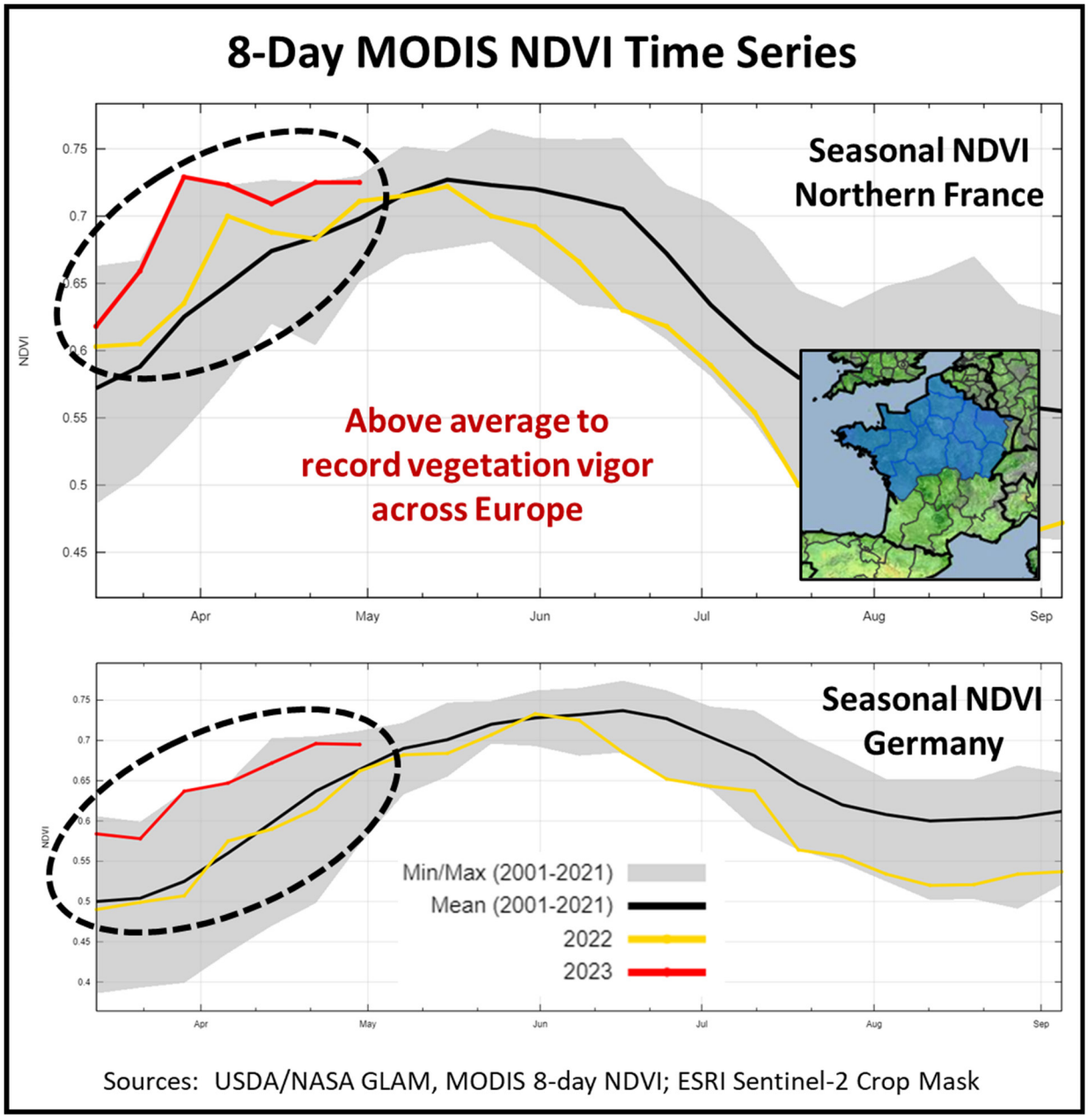


Source: USDA PSD Online

Apart from Spain and Portugal where short- and long-term drought have significantly lowered expectations, favorable crop conditions exist across the EU. Satellite-derived Normalized Difference Vegetation Index (NDVI) anomaly imagery of Europe at the end of April depicts vigorous vegetation everywhere except the Iberian Peninsula.

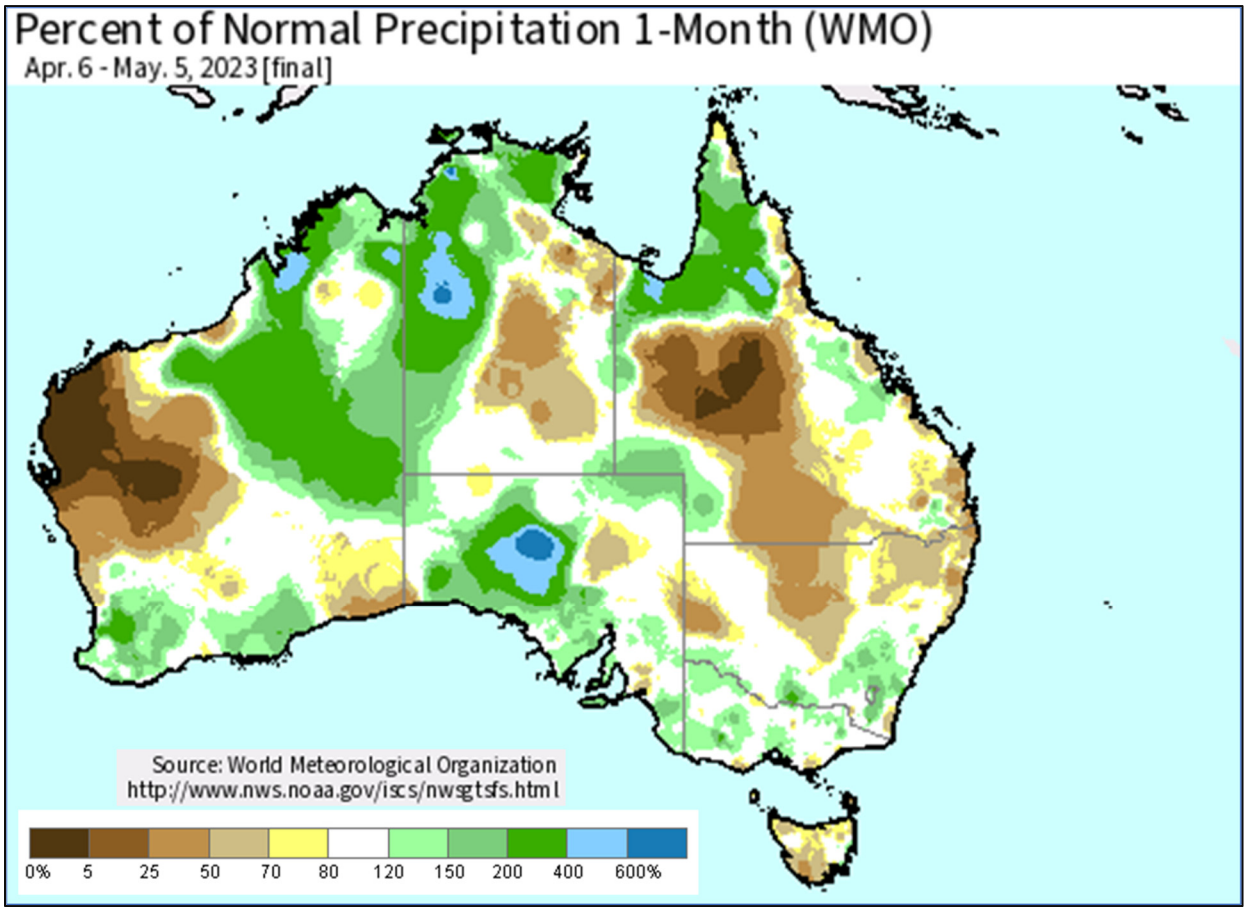


Planting conditions last fall were beneficial with good soil moisture levels, encouraging emergence and development. Winter was particularly mild with above-average temperatures resulting in minimal-to-no winterkill. After a dry winter, soil moisture has been increasing during spring with more rain; however, precipitation must soon taper off to allow for sunlight, inputs, and field work to aid the crop. Satellite-derived MODIS (NDVI) depicts almost every region in the EU (except Spain and Portugal) to be above average or at record-level greenness. Wheat production from the three largest producers is forecast at 36.6 mmt in France (35.0 mmt last year), 22.1 mmt (22.6 mmt) in Germany, and 13.3 mmt (13.4 mmt) in Poland.

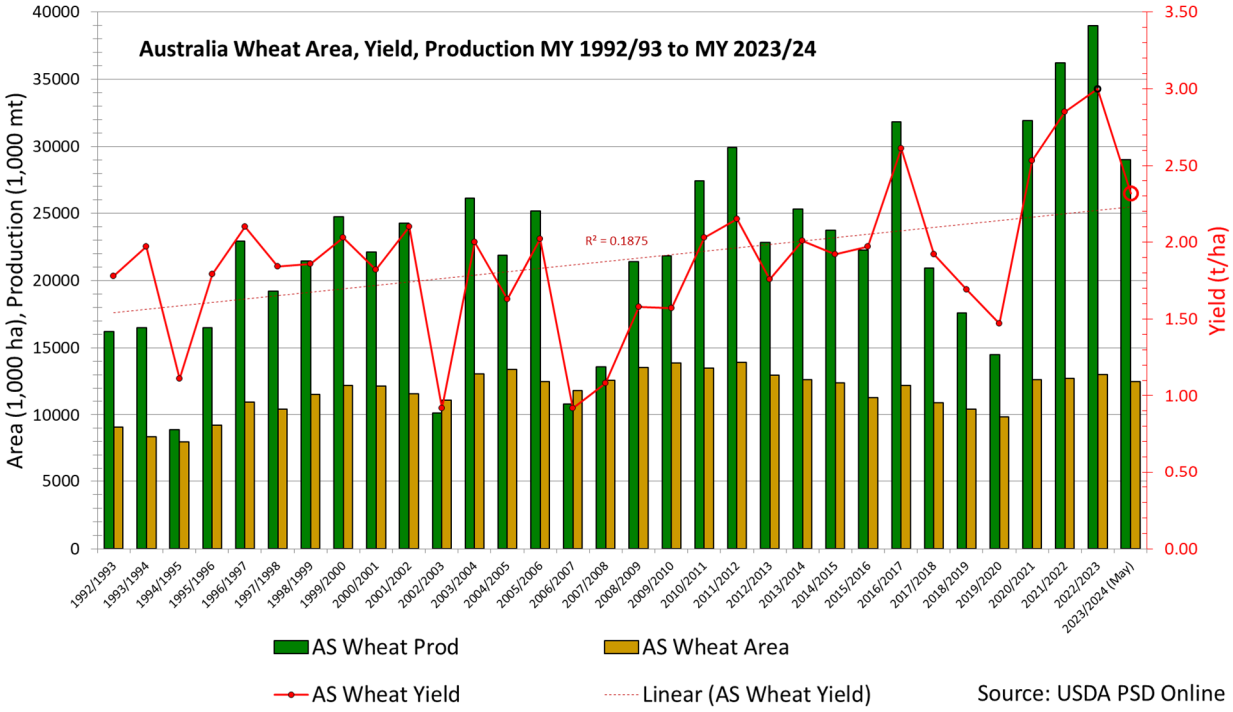


For country-specific area, yield, and production estimates within the European Union (EU), please go to PSD Online at https://apps.fas.usda.gov/PSDOnline/app/index.html#/app/home, and select "Downloadable Data Sets." Select the zipped file for "EU Countries Area & Production."
(For more information, please contact Bryan.Purcell@usda.gov.)

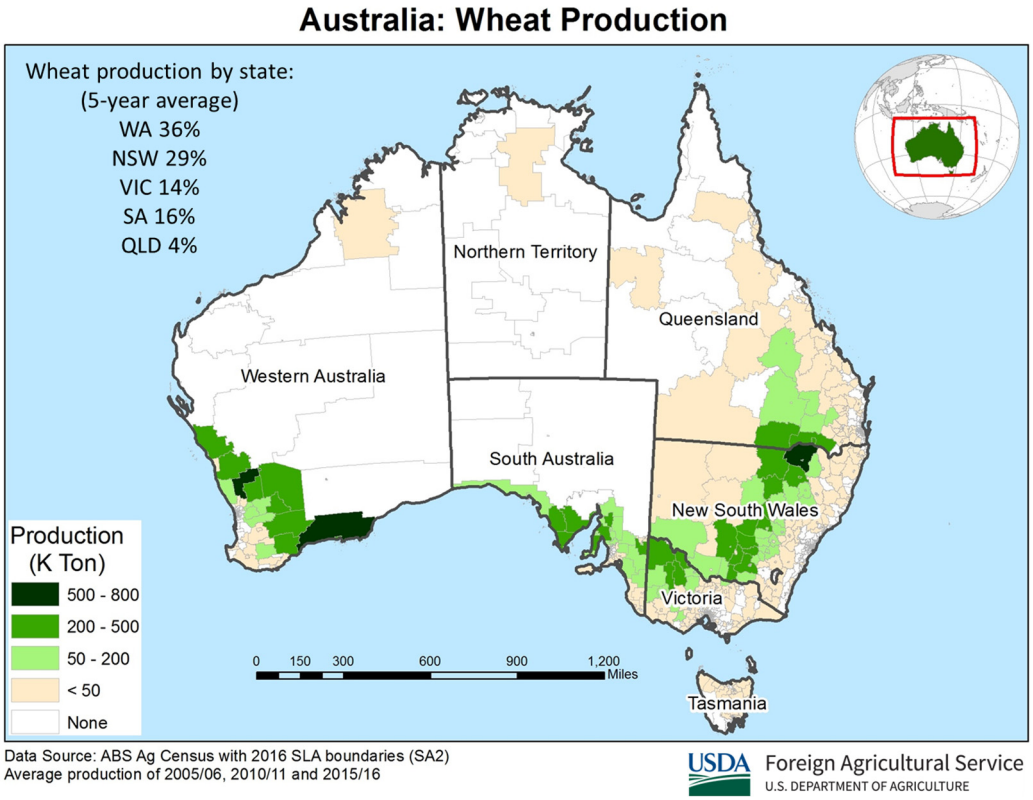
Australia Wheat: MY 2023/24 Production Forecast 26 Percent Lower from Last Year's Record Season



Australia wheat production for marketing year (MY) 2023/24 is forecast at 29.0 million metric tons (mmt), down 26 percent from last year's record, but up 4 percent from the 5-year average. Yield is forecast at 2.32 tons per hectare, down 23 percent from last year's record, but up 1 percent from the 5-year average. Total harvested area is forecast at 12.5 million hectares (mha), down 4 percent from last year, but up 7 percent from the 5-year average.



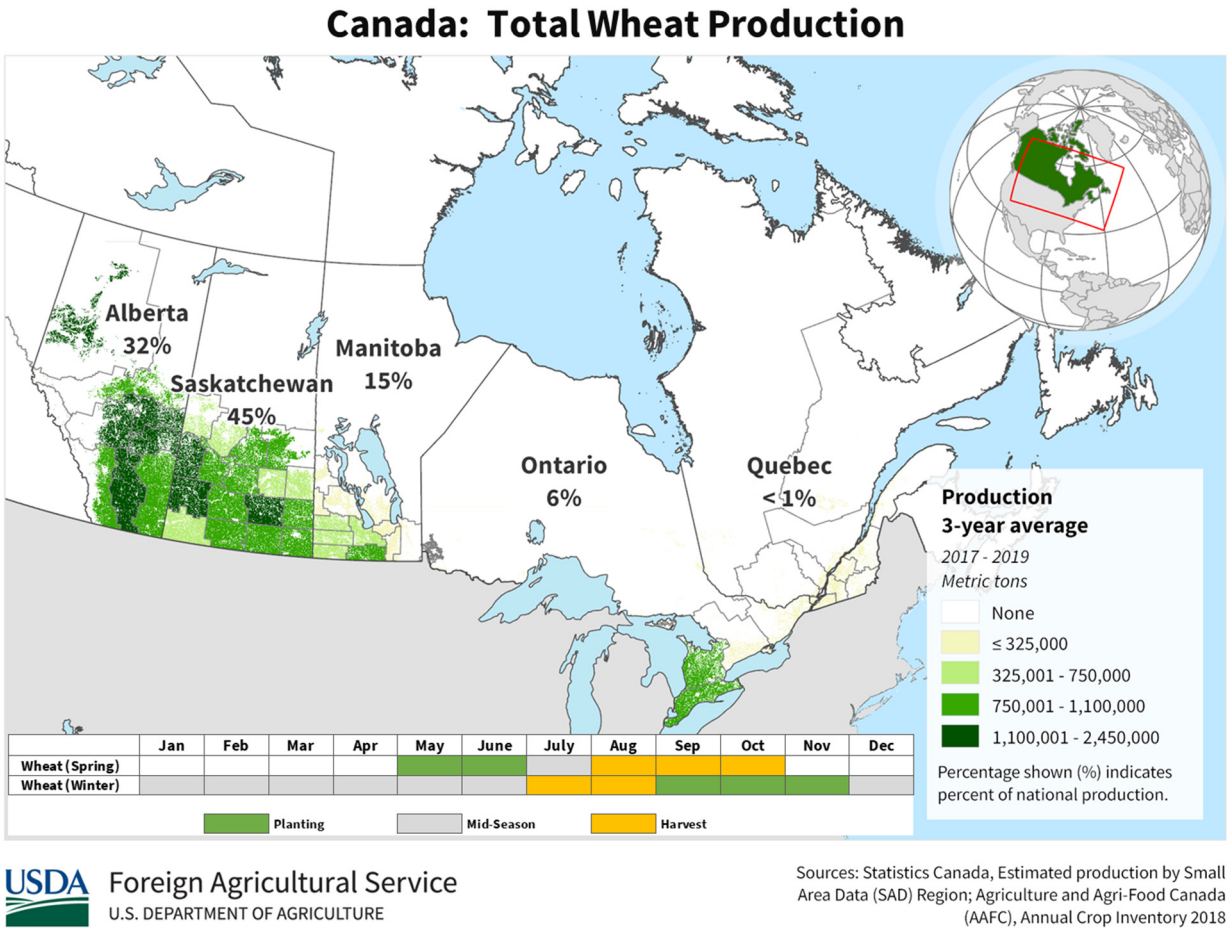
After setting a record production last season, Australia is expected to produce a more modest but still strong wheat crop in MY 2023/24. Wheat production will decline significantly to 29.0 mmt in MY 2023/24, but if realized would be the sixth largest crop. This follows a record-breaking 39.0 mmt crop in MY 2022/23, and a 36.2 mmt crop in MY 2021/22.



At present, the soil moisture across most growing areas is favorable for sowing and establishment of winter crops, including wheat. The area reduction is due to farmers having less suitable area available in their crop rotations after the previous three big-planted-area years. However, farmers are expected to favor maintaining high wheat planted area at the expense of canola and barley area, particularly after a steep drop in canola prices since mid-2022. Also, farmers will be reintroducing fallow areas into crop rotations which will reduce the available area for winter crop planting. Sowing is currently underway and will continue into June in the more southern portions of the winter grain and wheat belt. *(For more information, please contact James.Crutchfield@usda.gov.)*

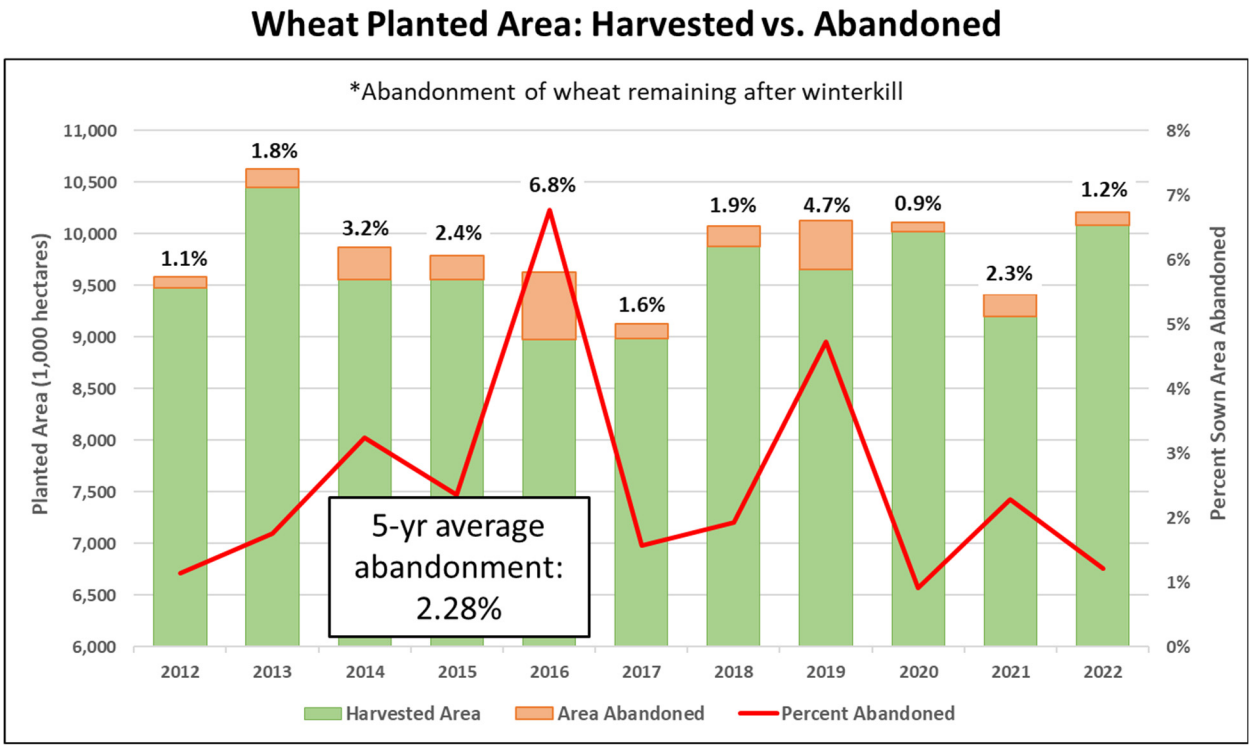
Canada Wheat: MY 2023/24 Production Forecast Up on Increased Planting and Higher Yields

USDA forecasts Canada wheat production for marketing year (MY) 2023/24 at 37.0 million metric tons, up 9 percent from last year and 18 percent above the 5-year average. Harvested area is estimated at 10.6 million hectares, up 5 percent from last year and 9 percent above the 5-year average. Yield is forecast at 3.49 metric tons per hectare, up 4 percent over last year.



Wheat planting is expected to be up more than 6 percent over 2022, according to Statistics Canada's recently released March 2023 *Field Crop Survey*. Spring wheat area, the bulk of the crop, is expected to increase 7 percent, with durum wheat rising 1 percent. Additionally, winter wheat

area, planted last autumn, is up 13 percent over last year. Higher prices and strong demand are cited as reasons for more wheat area displacing minor crops.

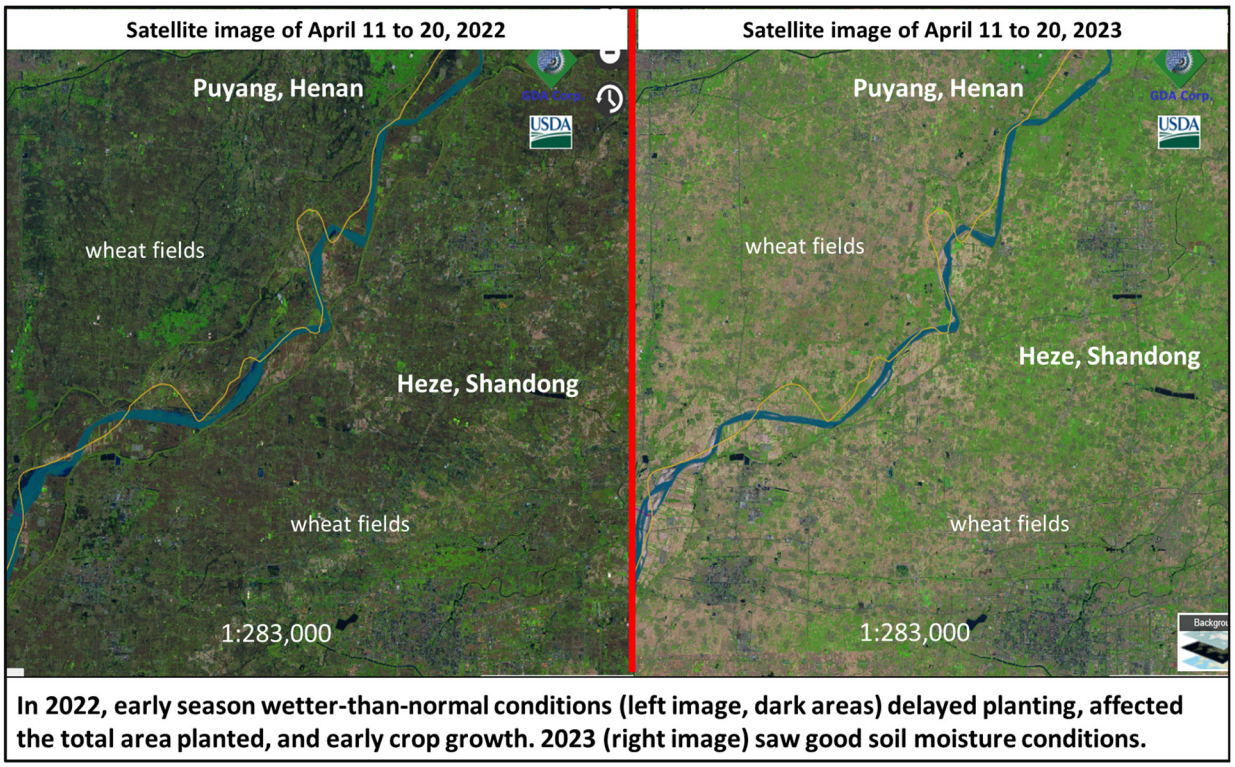


Source: Statistics Canada

USDA expects a small amount of area planted to be abandoned (not harvested). Based on Statistics Canada reporting, Canadian farmers abandon slightly more than 2 percent of the wheat crop that is planted or remaining (winter wheat) in the spring planting season, which begins in May. The abandonment rates reported in the above graphic do not factor winter wheat area lost to winterkill over the previous winter, and instead, factor only what is abandoned during the primary growing season. Spring varieties of wheat, the primary portion of Canada's wheat crop, have lower abandonment rates than most other grains.

Winterkill in Ontario was reportedly low due to the mild 2022/2023 winter, and conditions are favorable for wheat in the Prairies, where the predominance of spring varieties are grown. USDA forecasts yield to be above average, given the positive conditions going into the upcoming season. *(For more information, please contact Aaron.Mulhollen@usda.gov.)*

China Wheat: MY 2023/24 Production Increases Year-over-Year to a New Record

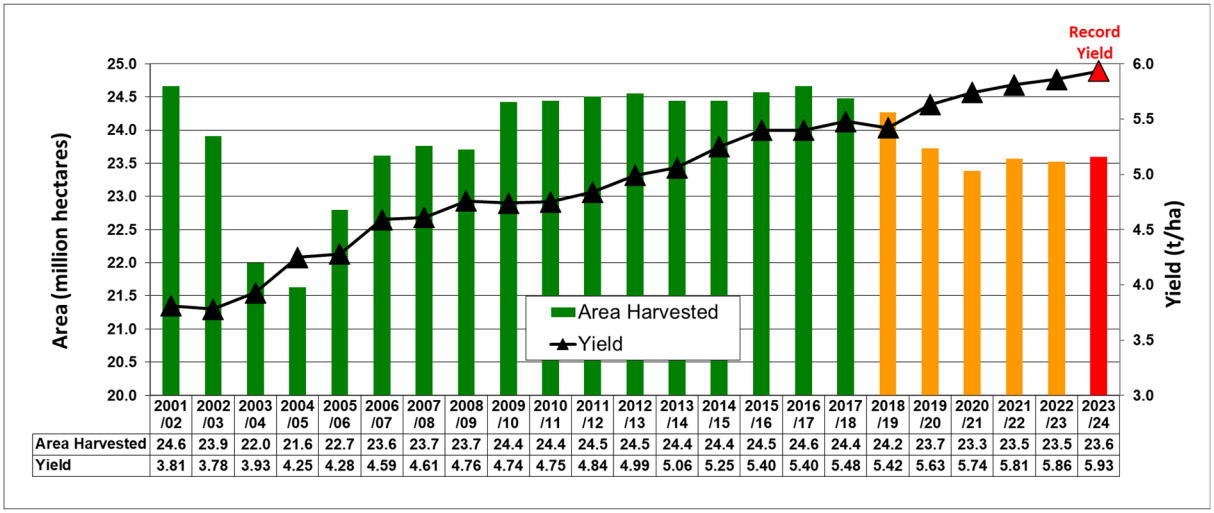


In 2022, early season wetter-than-normal conditions (left image, dark areas) delayed planting, affected the total area planted, and early crop growth. 2023 (right image) saw good soil moisture conditions.

Source: GDA GeoChronicles 10-day 10m Surface Reflectance (SWIR1/NIR/Red)

The USDA forecasts China's marketing year (MY) 2023/24 wheat production at a record 140.0 million metric tons (mmt), up 2.3 mmt or approximately 1.7 percent from last year, and up approximately 3.9 percent from the 5-year average of 134.8 mmt. Area is estimated slightly higher than last year at 23.6 million hectares (mha), up 81,000 ha or approximately 0.3 percent on last year's 23.5 mha. Yield is forecast at a record 5.93 metric tons per hectare (t/ha), up slightly from last year at 5.86 t/ha.

China Wheat Harvested Area and Yield

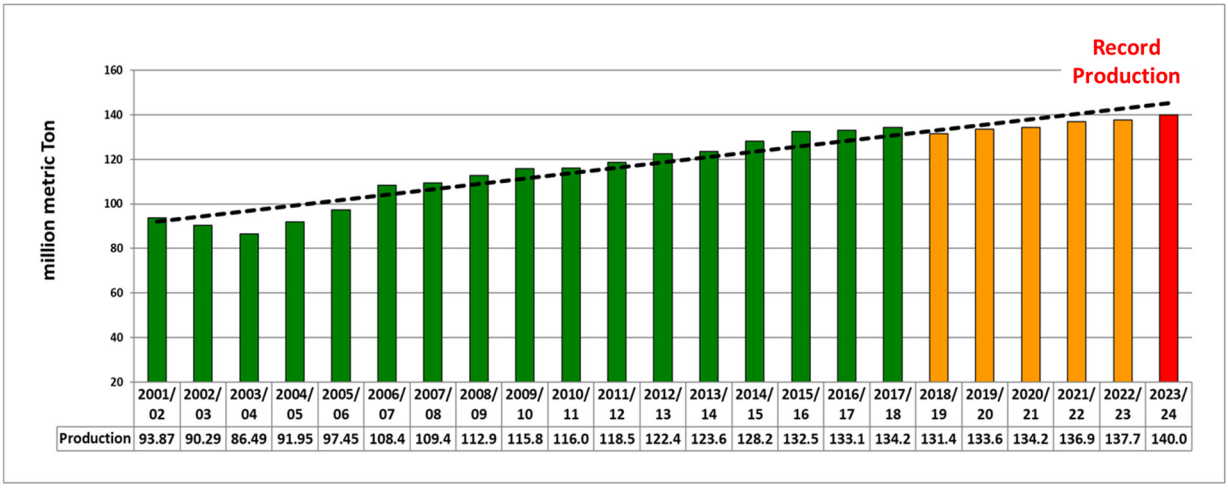


	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Area Harvested	24.6	23.9	22.0	21.6	22.7	23.6	23.7	23.7	24.4	24.4	24.5	24.5	24.4	24.4	24.5	24.6	24.4	24.2	23.7	23.3	23.5	23.5	23.6
Yield	3.81	3.78	3.93	4.25	4.28	4.59	4.61	4.76	4.74	4.75	4.84	4.99	5.06	5.25	5.40	5.40	5.48	5.42	5.63	5.74	5.81	5.86	5.93

Source: USDA PSD Online

The MY 2023/24 winter wheat crop is at an advanced grain filling maturity stage. Winter wheat accounts for 95 percent of total national wheat and spring wheat accounts for 5 percent. Typically winter wheat is sown in September and October; harvesting begins in mid-May and continues through the end of June. Spring wheat is sown in March through April and harvested in August through September. Overall, the winter wheat season's soil moisture conditions during planting were characterized as wet-to-normal across the major growing regions including Henan, Hebei, Shandong, Anhui, and Jiangsu provinces. The mid-season soil moisture conditions were normal, while the end-of-year conditions were generally normal-to-below-average in some areas. The conditions in late April indicated a favorable finish to grain filling and maturity as well as favorable harvesting weather, especially on the North China Plain. According to FAS-Beijing in early March, the winter wheat crop status was better than last year as spring planting was on time and inputs were supplied without issues. Farmers continue to be incentivized by bumper yields and high economic returns despite rising input costs. A survey conducted by the Ministry of Agriculture in Henan province, which accounts for one-fourth of China's wheat production, showed that input costs (seed, pesticide, and fertilizer) per hectare for MY 2022/23 were up by 18 percent.

China Wheat Production



	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Production	93.87	90.29	86.49	91.95	97.45	108.4	109.4	112.9	115.8	116.0	118.5	122.4	123.6	128.2	132.5	133.1	134.2	131.4	133.6	134.2	136.9	137.7	140.0

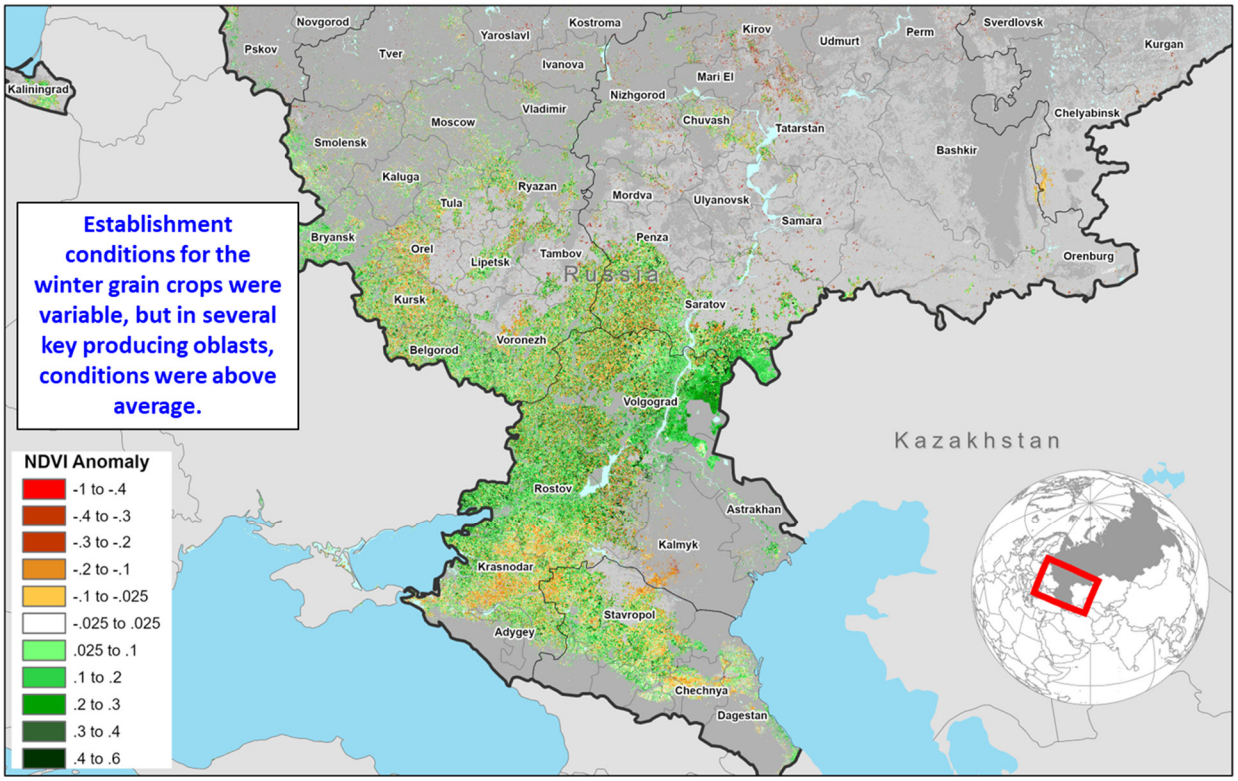
Source: USDA PSD Online

The early season satellite-imagery-based analysis and assessment of critical crop stages of planting, crop development, and early flowering stages indicated that production prospects were favorable. The mid-to-late season satellite assessment indicated significant improvement during critical productivity determining stages of heading, flowering, and grain filling. In general, the overall assessment indicated a near-average area planted and expectations of above-average yields reflecting the season's favorable conditions as well as adequate availability of agricultural inputs, supplemental irrigation water, fertilizers, pesticides, and high-quality seeds. *(For more information, please contact Dath.Mita@usda.gov).*

Russia Wheat: Production Forecast for MY 2023/24 is the Second Highest on Record

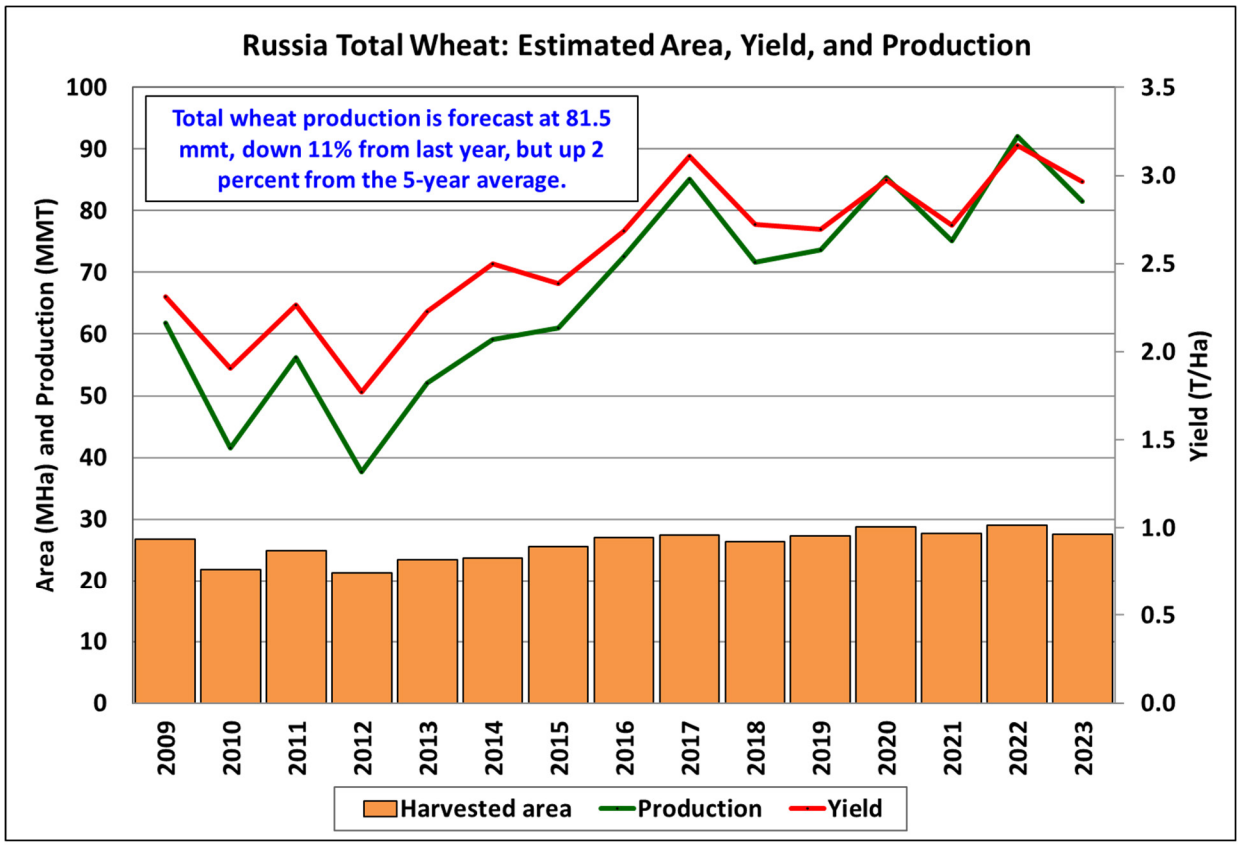
Russia wheat production for marketing year (MY) 2023/24 is forecast at 81.5 million metric tons (mmt), down 11 percent from last year, but up 2 percent from the 5-year average. The forecast includes 58.0 mmt of winter wheat and 23.5 mmt of spring wheat. USDA crop production forecasts for Russia exclude estimated output from Crimea. Total wheat yield is forecast at 2.96 tons per hectare, down 7 percent from last year, but up 4 percent from the 5-year average. Total harvested area is estimated at 27.5 million hectares (mha), down 5 percent from last year and 1 percent from the 5-year average.

European Russia
NDVI Anomaly (November 9-16, 2022)



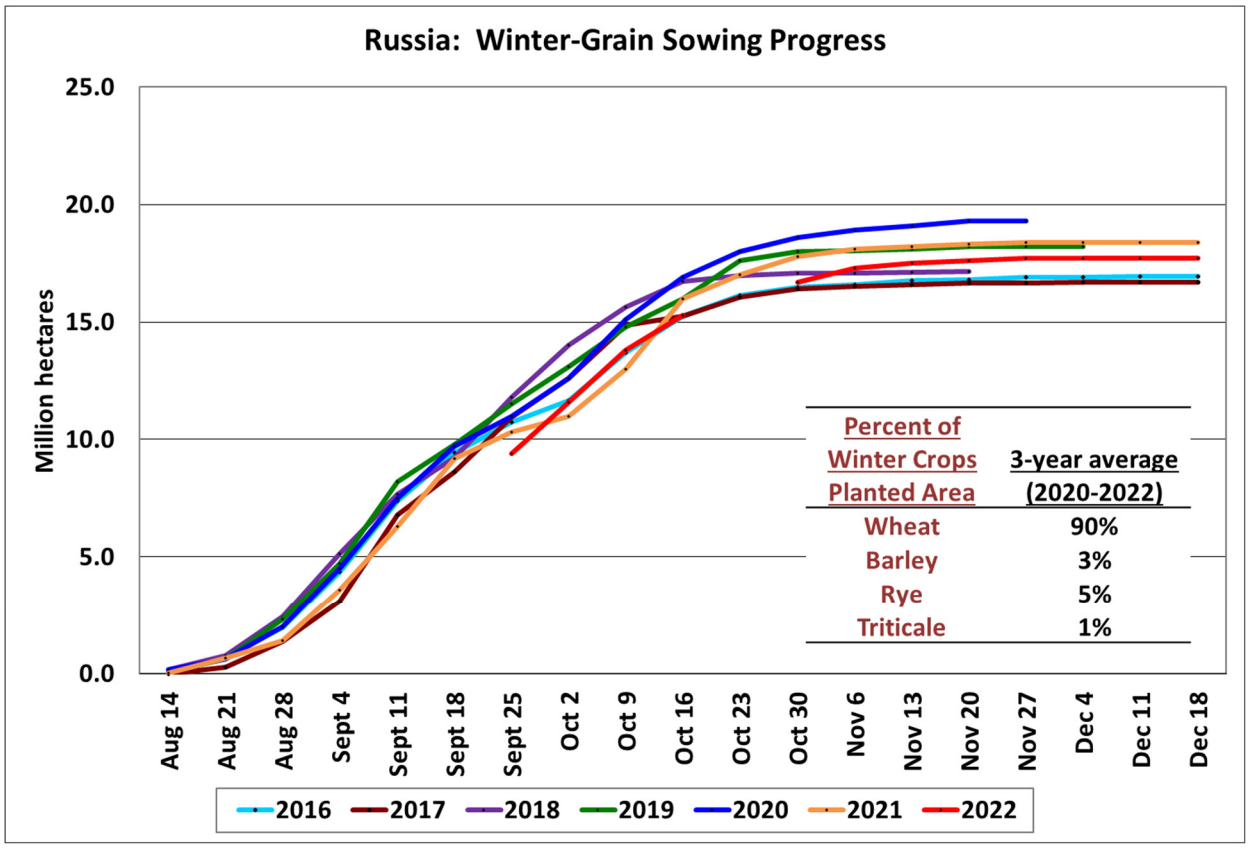
Source: USDA/NASA, VIIRS NDVI Anomaly imagery; GFSAD30 Crop Mask 2015

Winter wheat typically accounts for about 70 percent of total production. According to data from the Russian Ministry of Agriculture (MinAg), this season's winter crop planted area is 17.7 mha. This is below last year's planted area due to heavy rains during planting. Russian data does not provide area estimates per crop, but the main winter crops are wheat, barley, rye, and triticale. Winter wheat accounts for about 90 percent of the total winter grains planted area. Last year winterkill was negligible overall. This year, however, imagery from the NASA Soil Moisture Active Passive (SMAP) mission, indicates some periods of freeze/thaw/freeze events, which would reveal the possibility of ice crusting. Therefore, the reported MinAg planted area number was adjusted to account for the expected winter loss.



Source: USDA PSD Online

Precipitation in autumn was variable, but overall, there was enough moisture for crop germination. Crops across the Central and the Volga regions entered dormancy in generally above-average condition, but crop conditions were mixed across the Southern and the North Caucuses districts. Winter precipitation was below average, especially in the more southern districts. Conditions improved during April, which aided in proper crop development and timely vegetation green up. Thus, early-season conditions for winter wheat are favorable, which suggests favorable yield prospects for this season. Winter wheat yields, however, are still largely dependent on May and June weather. Harvest of winter wheat will begin in July.

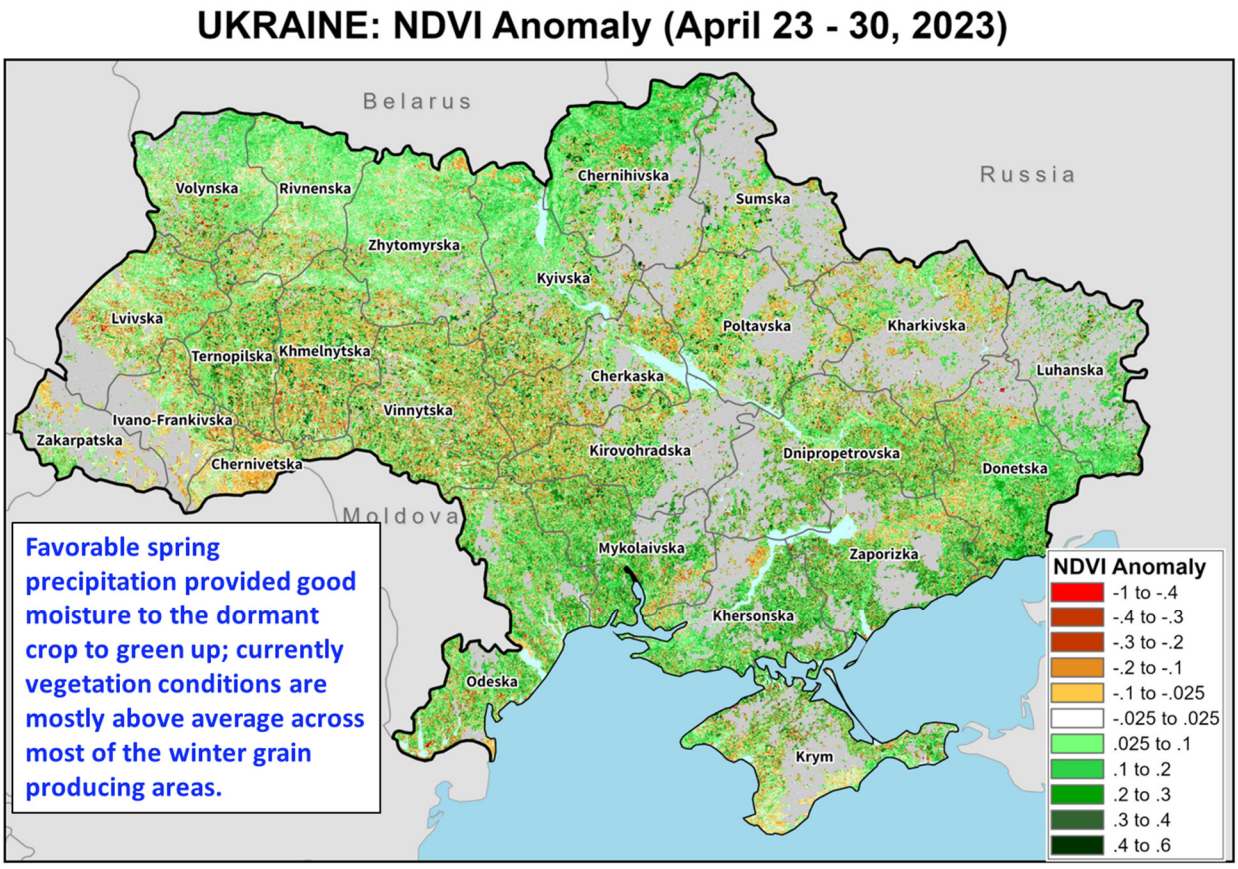


Source: Ministry of Agriculture of the Russian Federation

Spring wheat is mainly planted in the regions bordering Kazakhstan: the Volga, Urals, and Siberian Districts of Russia. Spring wheat planting typically starts in late April. According to MinAg, as of May 5th, spring wheat has been planted on an area of 3.5 mha, which is ahead of last year's pace, when planted area was 1.3 mha during the same time. Harvest of spring wheat will begin in late August.

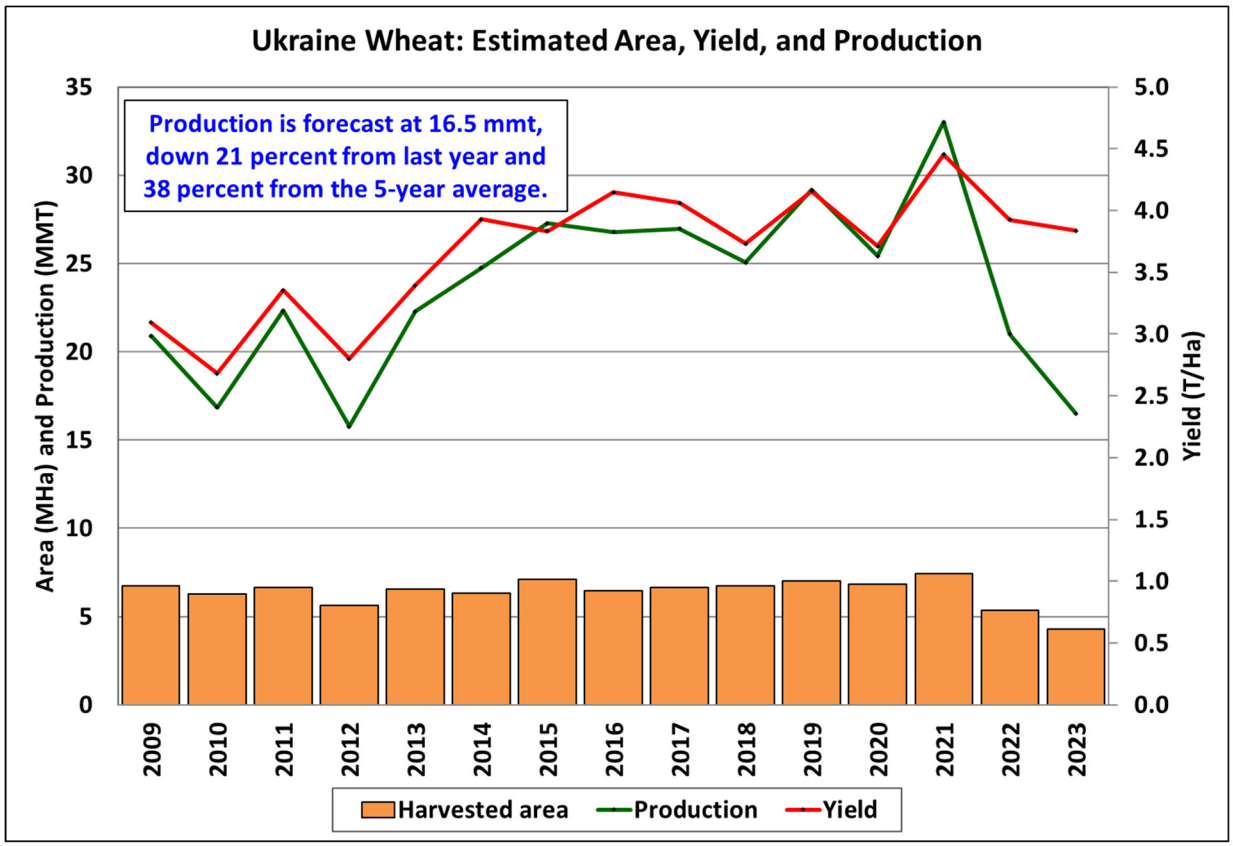
Area, yield, and production estimates for Russia winter wheat and spring wheat are available on PSD Online. Select "Downloadable Data Sets" and open the zipped file for "Russia Wheat; Winter/Spring Area & Production." *(For more information, please contact Iliana.Mladenova@usda.gov.)*

Ukraine Wheat: Production Decreases 21 Percent in MY 2023/24 Due to the Conflict



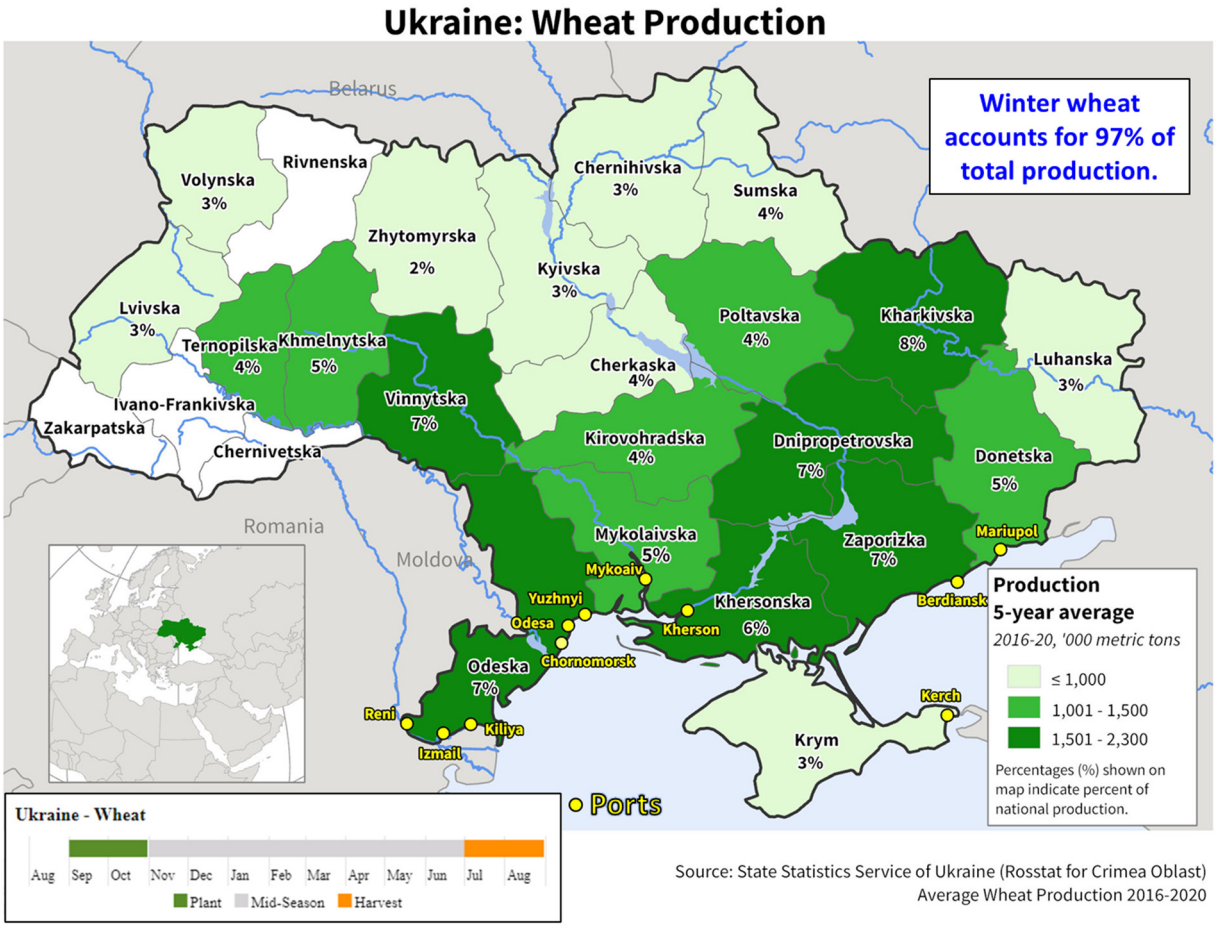
Source: USDA/NASA, VIIRS NDVI Anomaly imagery

Ukraine wheat production for marketing year (MY) 2023/24 is forecast at 16.5 million metric tons, down 21 percent from last year and 38 percent below the 5-year average. The year-to-year decrease in production is due to the ongoing Russian invasion of Ukraine. Yield is forecast at 3.84 tons per hectare, down 3 percent from last year and 4 percent from the 5-year average. Harvested area is estimated at 4.3 million hectares (mha), down 19 percent from last year and 35 percent from the 5-year average.



Sources: USDA PSD Online

At present, Ukraine can be divided into two zones: areas in conflict and areas not in conflict. As elaborated by FAS-Kyiv, due to the ongoing war there is no official and reliable information about the status of Ukraine's agriculture in the conflict zone. As a result, area and production data currently provided by FAS-Kyiv, Ukraine's Ministry of Agriculture (MinAg) and the State Statistical Service of Ukraine, which inform USDA's forecasts, do not reflect the whole country. For the MY 2023/24 season the MinAg planted area information for both the MY 2023/24 winter and spring crops excludes the occupied territory of the Luhansk, Donetsk, Zaporizhzhia, and Kherson regions. This is based on an official note included in the daily MinAg planting reports. MinAg also does not include Crimea. Crimean area and production numbers are extracted from the agricultural crop reports provided by the Russian Statistical Agency, Rosstat.



Winter wheat, which accounts for about 97 percent of the total wheat production in Ukraine, is typically planted between early September and mid-November. As of the 28th of November, official data published by MinAg for the current season, winter wheat, barley, rye, and rapeseed have been planted on an area of 4.5 mha. Wheat, which is the major winter crop, accounted for about 84 percent of the total winter crop area or about 3.76 mha. Wheat in Crimea is predominantly a winter crop, and its area is on average about 0.3 mha. As of May 4th, MinAg's spring wheat forecast for this season is 0.3 mha. Spring planting is ongoing with favorable weather conditions and is currently 83 percent complete.

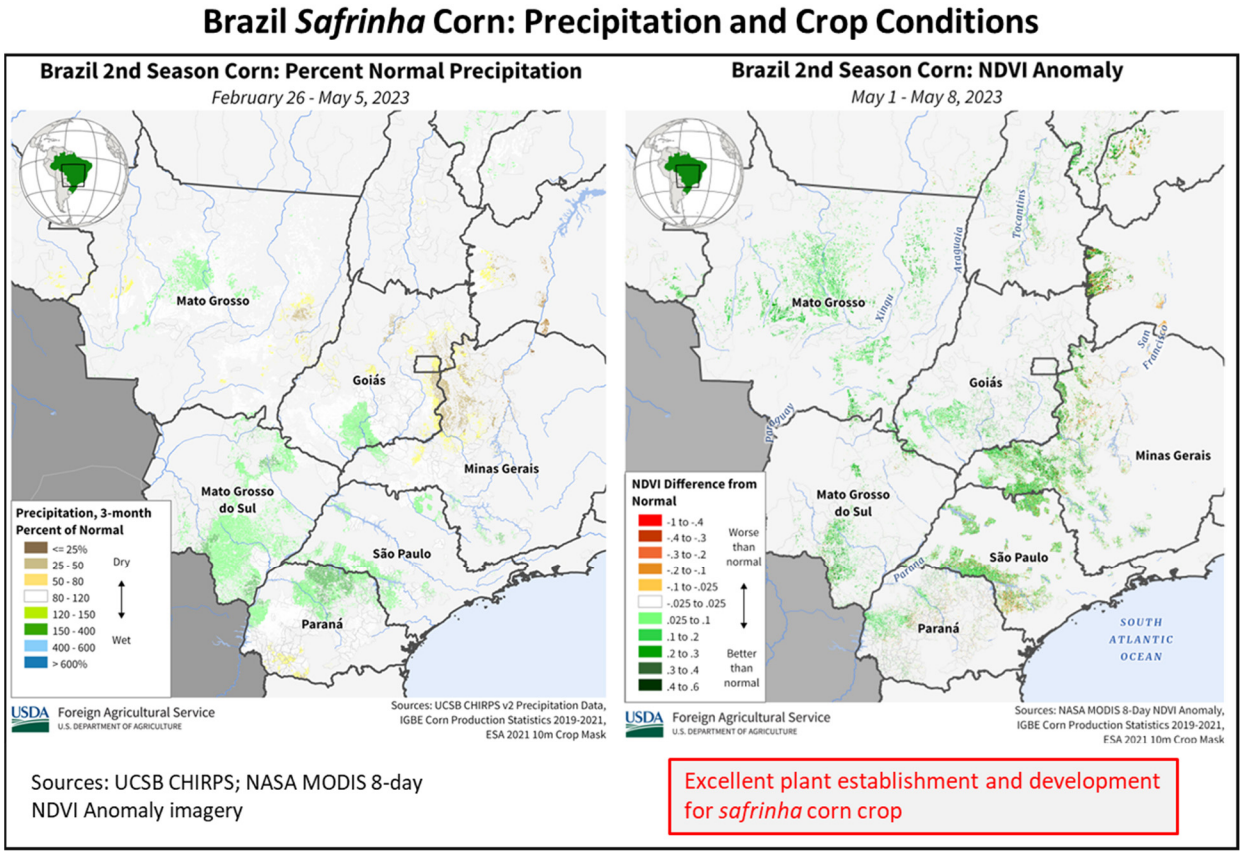
Sufficient precipitation during the months of October and November aided the winter planting campaign and provided necessary moisture for the proper establishment of this season's winter wheat. The 2023 winter was mild with mostly above-average temperatures, minimizing the chance of crop damage due to frost. As shown by the satellite-derived VIIRS Normalized Difference Vegetation Index (NDVI), current vegetation conditions are mostly above average across most of the winter gains producing areas.

Generally, wheat yield has been increasing over the last decade because of the increased usage of improved seed varieties and increased fertilizer application rates. Due to the ongoing conflict, wheat yields are forecast below average on constrained input use. Ukraine's agricultural producers face several major issues, including limited financial resources, shortage of imported seeds,

fertilizers, and agrochemicals, as well as inadequate access to functional agricultural equipment and blockage of major ports in the Black Sea region, which has disrupted supply chains.

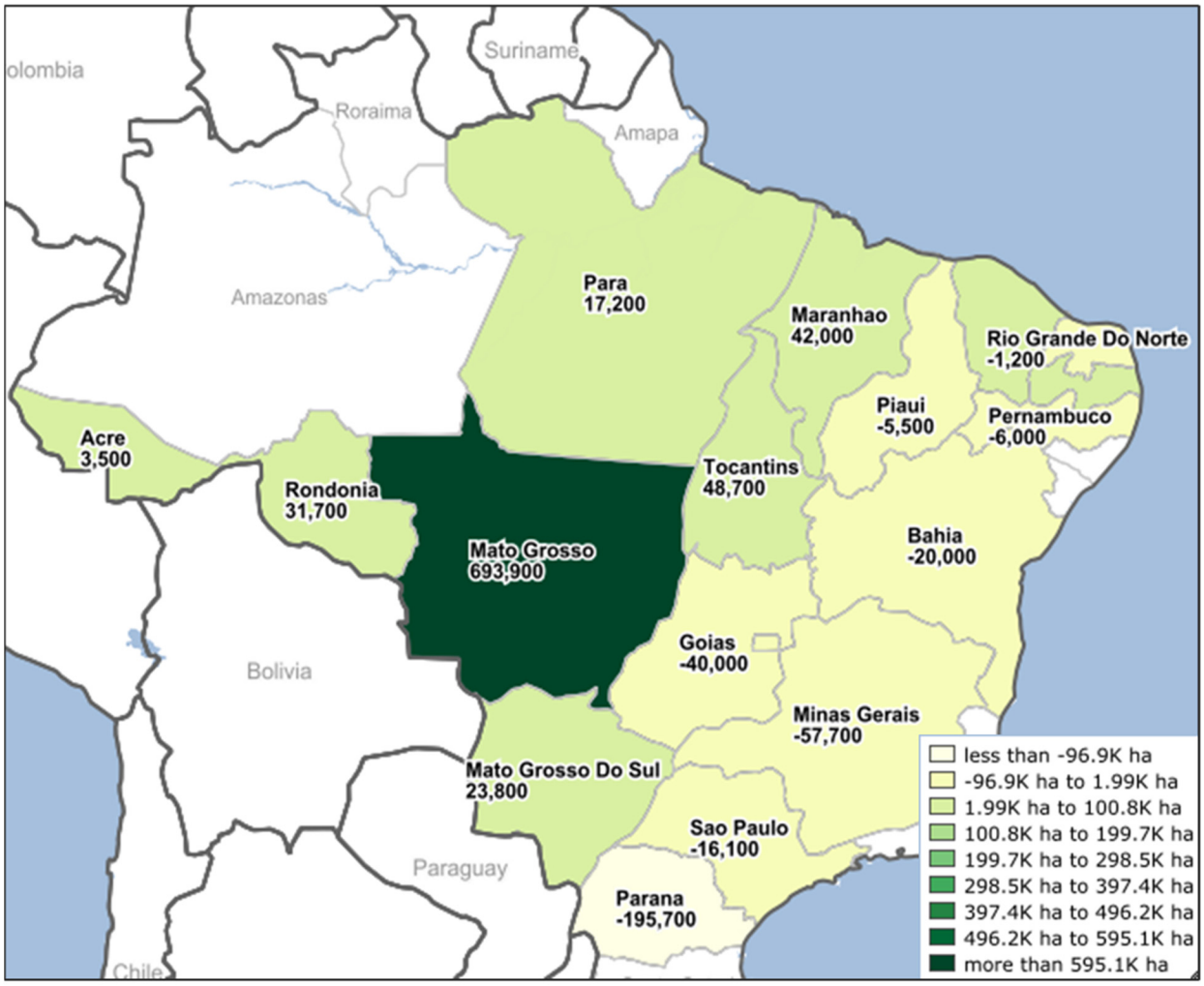
The winter wheat harvest generally occurs from the end of June until mid-August. USDA crop production estimates for Ukraine include estimated output from Crimea. *(For more information, please contact Iliana.Mladenova@usda.gov.)*

Brazil Corn: Record MY 2022/23 Production Anticipated



Brazil total corn production for marketing year (MY) 2022/23 is estimated at a record 130.0 million metric tons (mmt), up 5.0 mmt (4 percent) from last month, and larger than last year's crop by 14.0 mmt (12 percent). Total harvested area, for all three corn crops, is estimated at 22.7 million hectares (mha), up 0.9 mha (4 percent) from last year. Yield is estimated at 5.73 tons per hectare, 8 percent above last year's crop, and just under the record yield of 5.77 t/ha obtained in MY 2018/19.

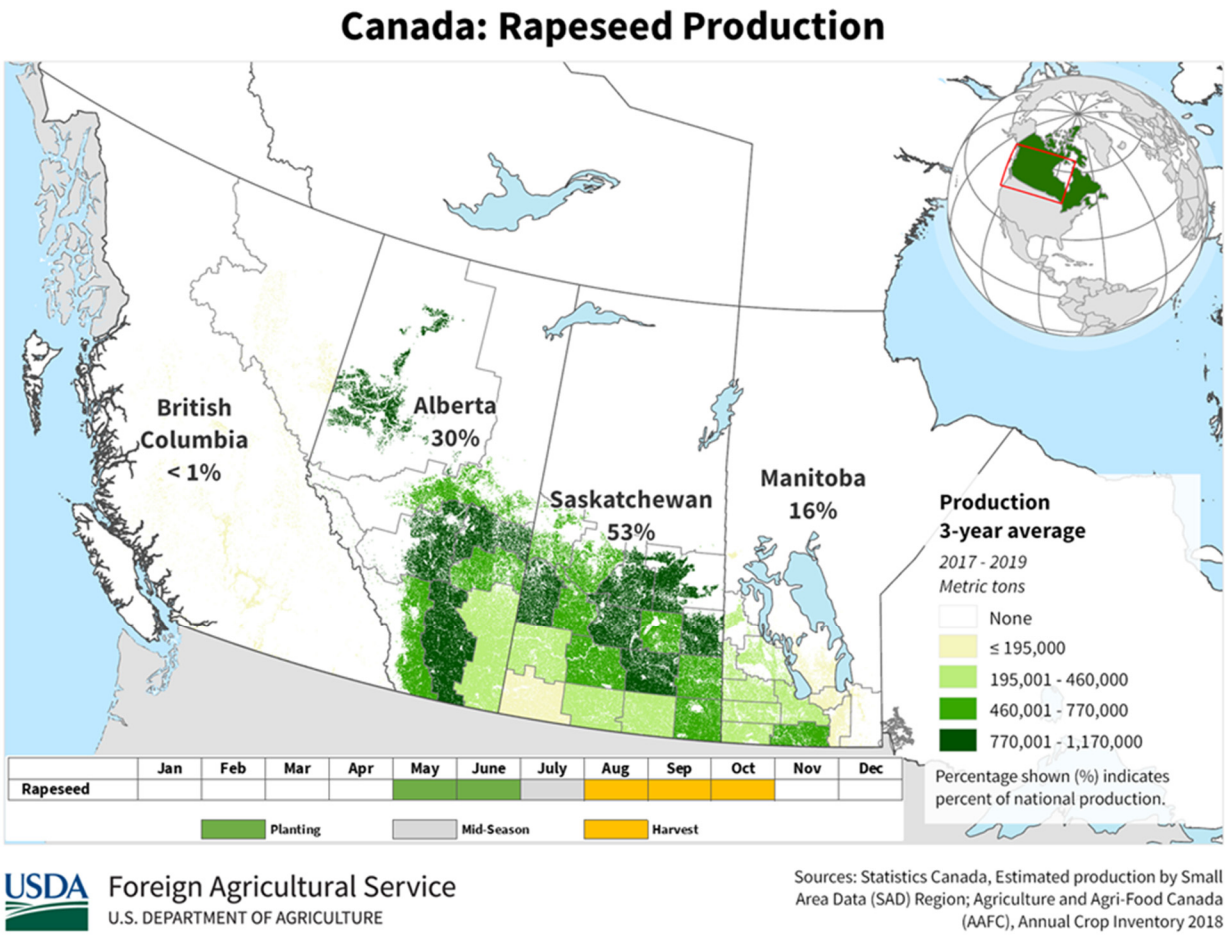
Brazil *Safrinha* Corn:
Annual Area Change from MY 2021/22 to MY 2022/23



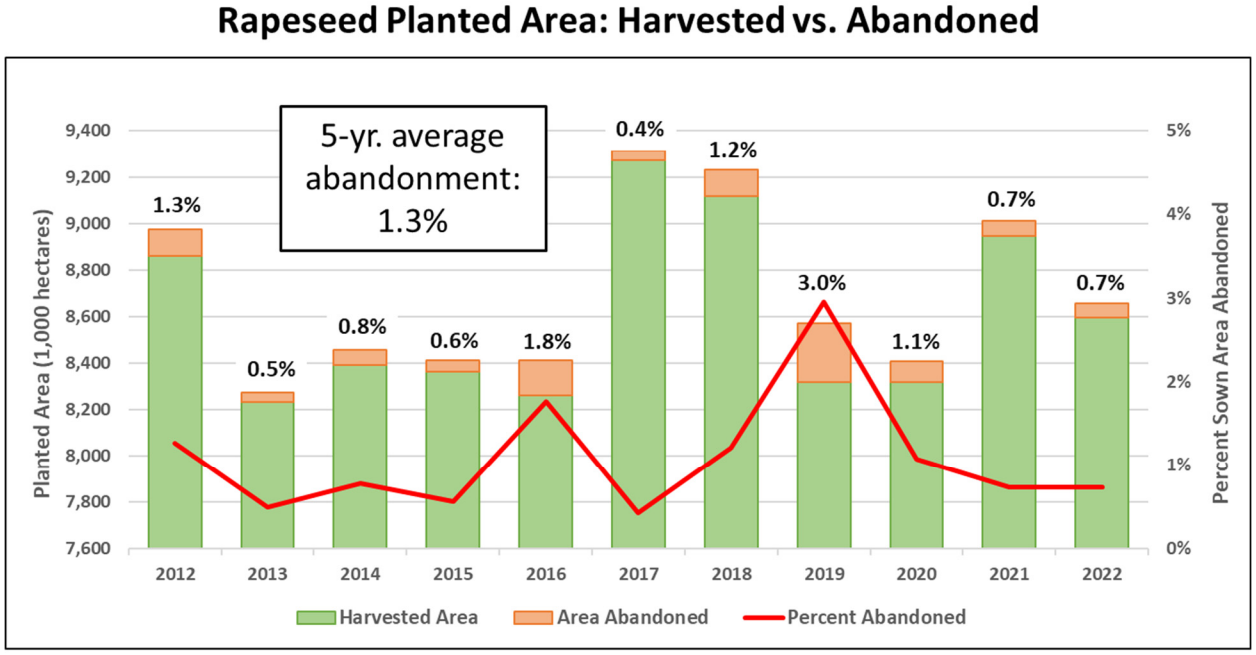
Source: *Companhia Nacional de Abastecimento* (CONAB)

Harvest continues with a delay for the first-season crop, 64 percent complete versus 68 percent last year. Reported production is estimated at 27.2 mmt on area of 4.4 mha according to the *Companhia Nacional de Abastecimento* (CONAB). Meanwhile, two thirds of the second-season crop is now in the critical pollination and grain-filling crop stages. The satellite-derived Normalized Difference Vegetation Index (NDVI) at this critical time period displays above average crop vigor in the second-season corn areas. The *Instituto Mato-Grossense de Economia Agropecuária* (IMEA) reports a record area in the state of Mato Grosso (7.4 mha). Mato Grosso accounts for roughly half of *safrinha* production. The second corn crop is harvested from June to September. *(For more information, please contact Sunita.Yadav-Pauletti@usda.gov.)*

Canada Rapeseed: MY 2023/24 Area and Production Increases



USDA forecasts Canada rapeseed production for marketing year (MY) 2023/24 at 20.3 million metric tons (mmt), up 7 percent from last year. Harvested area is estimated at 8.8 million hectares, up 2 percent from last year and 1 percent above the 5-year average. Yield is forecast at 2.31 metric tons per hectare, up 4 percent from last year and similar to the 5-year average yield when omitting the drought-affected crop of MY 2021/22.

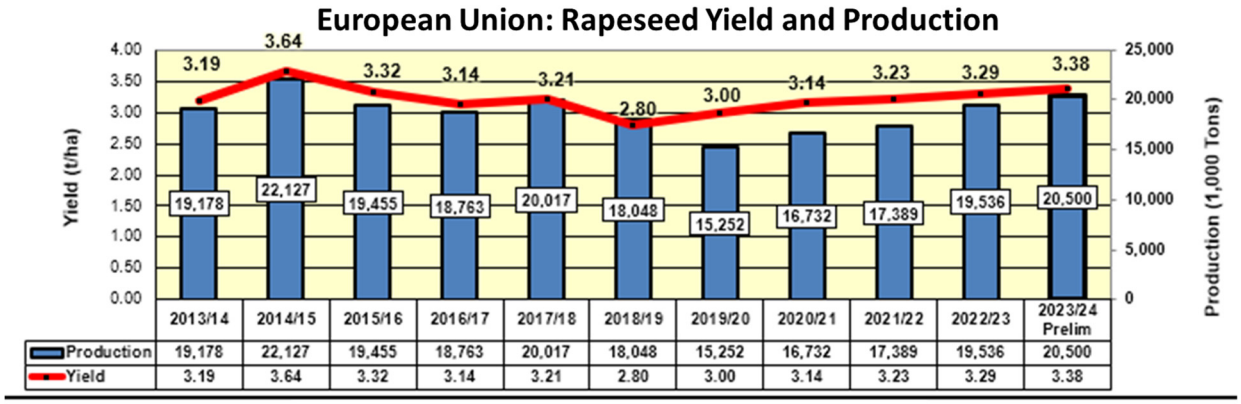


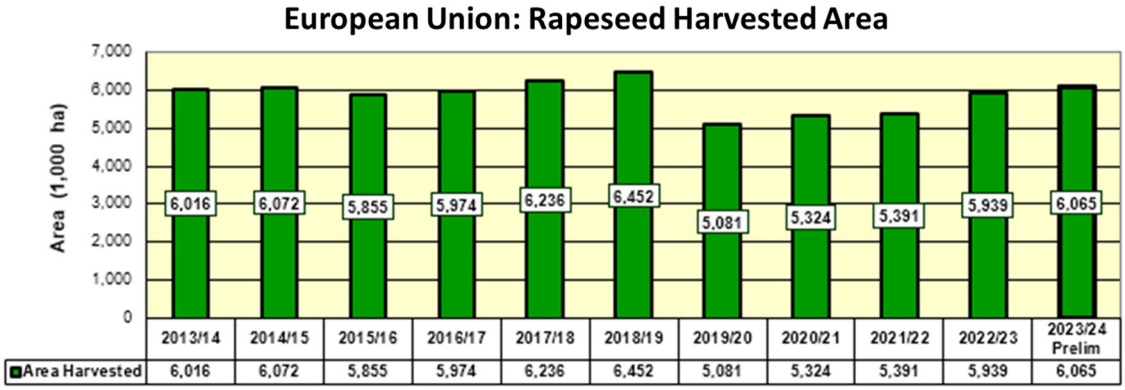
Source: Statistics Canada

Canadian farmers are expected to plant more area to rapeseed in 2023 than last year, according to Statistics Canada's March 2023 *Field Crop Survey*, owing in larger part to better returns than alternatives such as spring wheat – the other major crop grown in the Prairies. USDA factors planted area abandonment, which is relatively low for rapeseed, in determining its harvested area. Additionally, Canadian farmers have historically planted just over 2 percent more area, on average, than indicated in the March survey, requiring a further adjustment to the harvested area estimate. Conditions in the Prairies are generally normal for this time of year, and the USDA production forecast assumes an average yield. *(For more information, please contact Aaron.Mulhollen@usda.gov.)*

European Union Rapeseed: MY 2023/24 Production Up on Area and Yield Increases

European Union (EU) rapeseed production is forecast at 20.5 million metric tons (mmt), up 1.0 mmt or 5 percent above last year, and up 18 percent from the 5-year average of 17.4 mmt. Harvested area is estimated at 6.1 million hectares (mha), up 0.1 mha or 2 percent from last year and 8 percent above the 5-year average. Yield is estimated at 3.38 tons per hectare (t/ha), up 3 percent from last year's 3.29 t/ha, and 9 percent above the 5-year average of 3.09 t/ha.

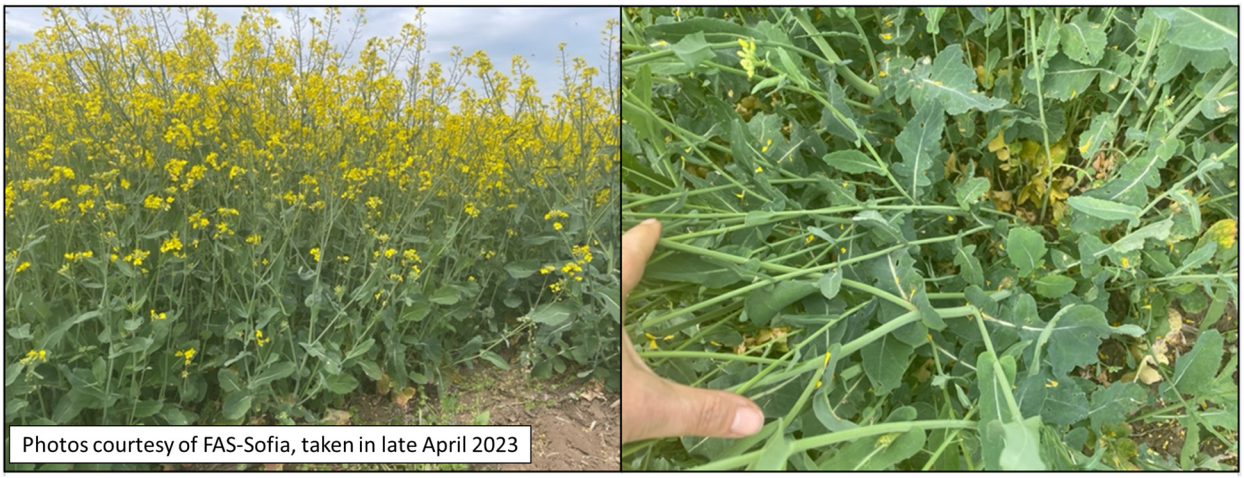




Source: USDA PSD Online

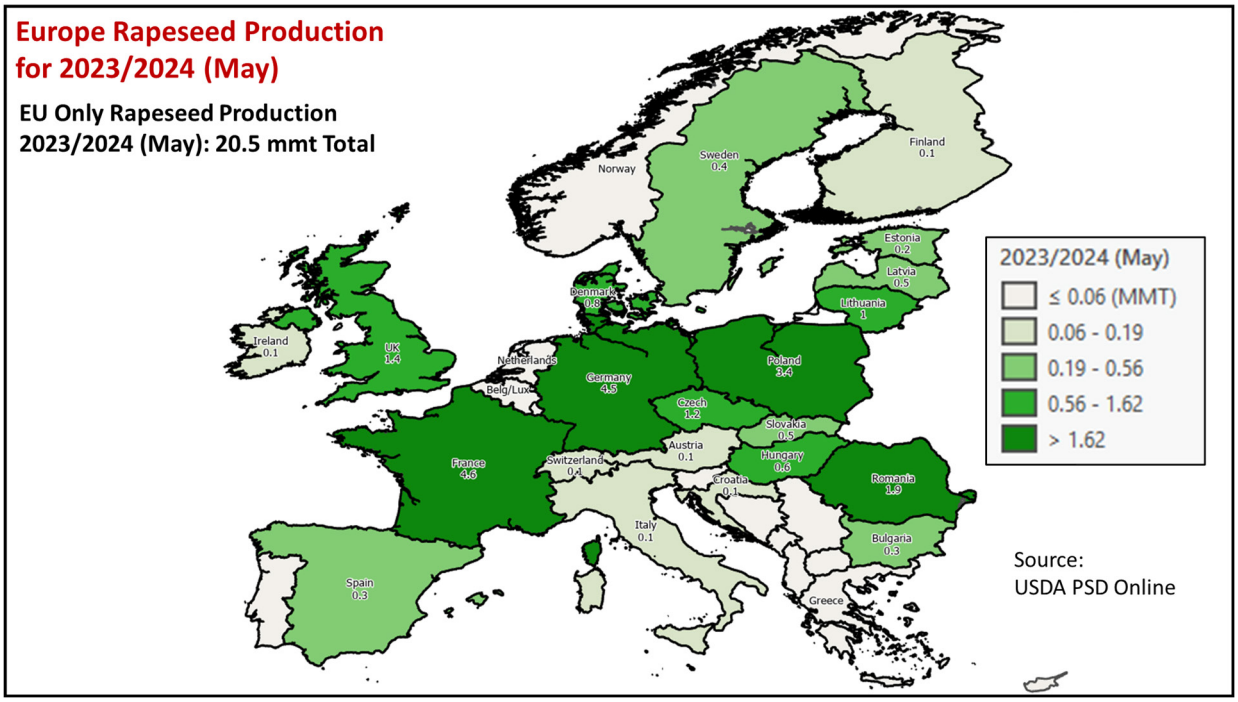
Rapeseed continues to be the dominant oilseed in the EU. A gradual increase in harvested area has been occurring in the last several years since the neonicotinoid ban was first enacted, but area remains below the peak in MY 2018/19. At the time of fall planting, prices were relatively high, encouraging rapeseed planting.

Healthy Rapeseed in Northern Bulgaria



Weather conditions in Europe have been good for rapeseed since planting last autumn. Winter was particularly mild with above-average temperatures which resulted in minimal-to-no winterkill. After a fairly dry winter, soil moisture has been increasing during spring with more rain, however,

precipitation must soon taper off to allow for sunlight, inputs, and field work to aid the crop. Harvest occurs in June and July.

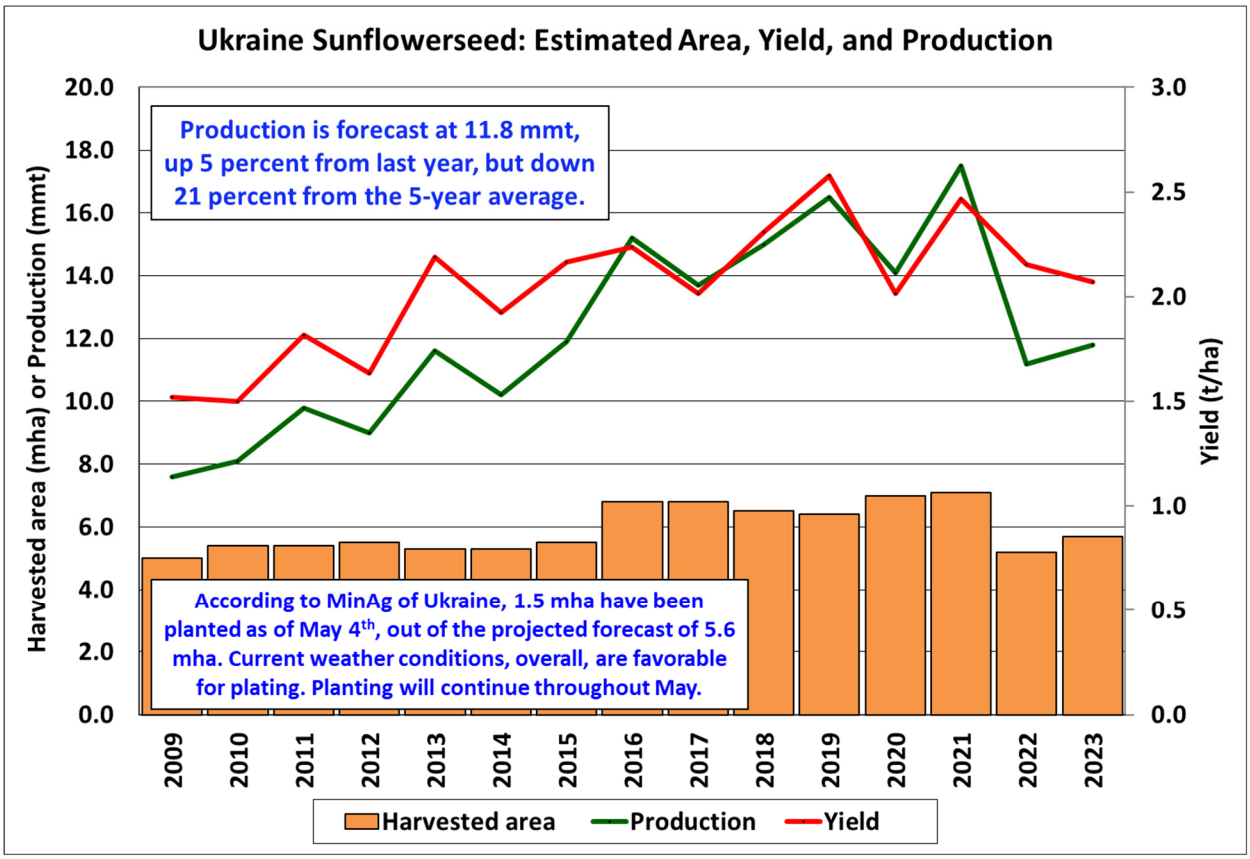


Rapeseed production in the largest EU producers is forecast at 4.6 mmt in France (4.5 mmt last year), 4.5 mmt in Germany (4.3 mmt), and 3.4 mmt in Poland (3.6 mmt).

For country-specific area, yield, and production estimates within the European Union (EU), please go to PSD Online at https://apps.fas.usda.gov/PSDOnline/app/index.html#/app/home, and select "Downloadable Data Sets." Select the zipped file for "EU Countries Area & Production."
(For more information, please contact Bryan.Purcell@usda.gov.)

Ukraine Sunflowerseed: Increase in MY 2023/24 Production Despite the Ongoing Conflict

Ukraine sunflowerseed production for marketing year (MY) 2023/24 is forecast at 11.8 million metric tons (mmt), up 5 percent from last year, but down 21 percent from the 5-year average. Yield is forecast at 2.07 tons per hectare (t/ha), down 4 percent from last year and 10 percent from the 5-year average. Harvested area is forecast at 5.7 million hectares (mha), up 10 percent from last year, but down 11 percent from the 5-year average.



Sources: USDA PSD Online

At present, Ukraine can be divided into two zones: areas in conflict and areas not in conflict. As elaborated by FAS-Kyiv, due to the ongoing war there is no official and reliable information about the status of Ukraine's agriculture in the conflict zone. As a result, area and production data currently provided by FAS-Kyiv, Ukraine's Ministry of Agriculture (MinAg) and the State Statistical Service of Ukraine, which inform USDA's forecasts, do not reflect the whole country. For the MY 2023/24 season the MinAg planted area information for both the MY 2023/24 winter and spring crops excludes the temporarily occupied territory of the Luhansk, Donetsk, Zaporizhzhia, and Kherson regions. This is based on an official note included in the daily MinAg planting reports. MinAg also does not include Crimea. Crimean area and production numbers are extracted from the agricultural crop reports provided by the Russian Statistical Agency, Rosstat.

According to operational planting data published by MinAg, as of May 4th, 1.5 mha have been planted out of the projected forecast of 5.6 mha. Planting will continue throughout May. Overall, area for sunflowerseed is expected to increase year-to-year, due to the high profitability of this crop and easier transportation logistics. April soil moisture across most of Ukraine was above average, which aided planting, but also caused some intermittent interruptions in some parts of the country as reported by Ukrainian producers. Weather conditions, however, have been favorable for planting.

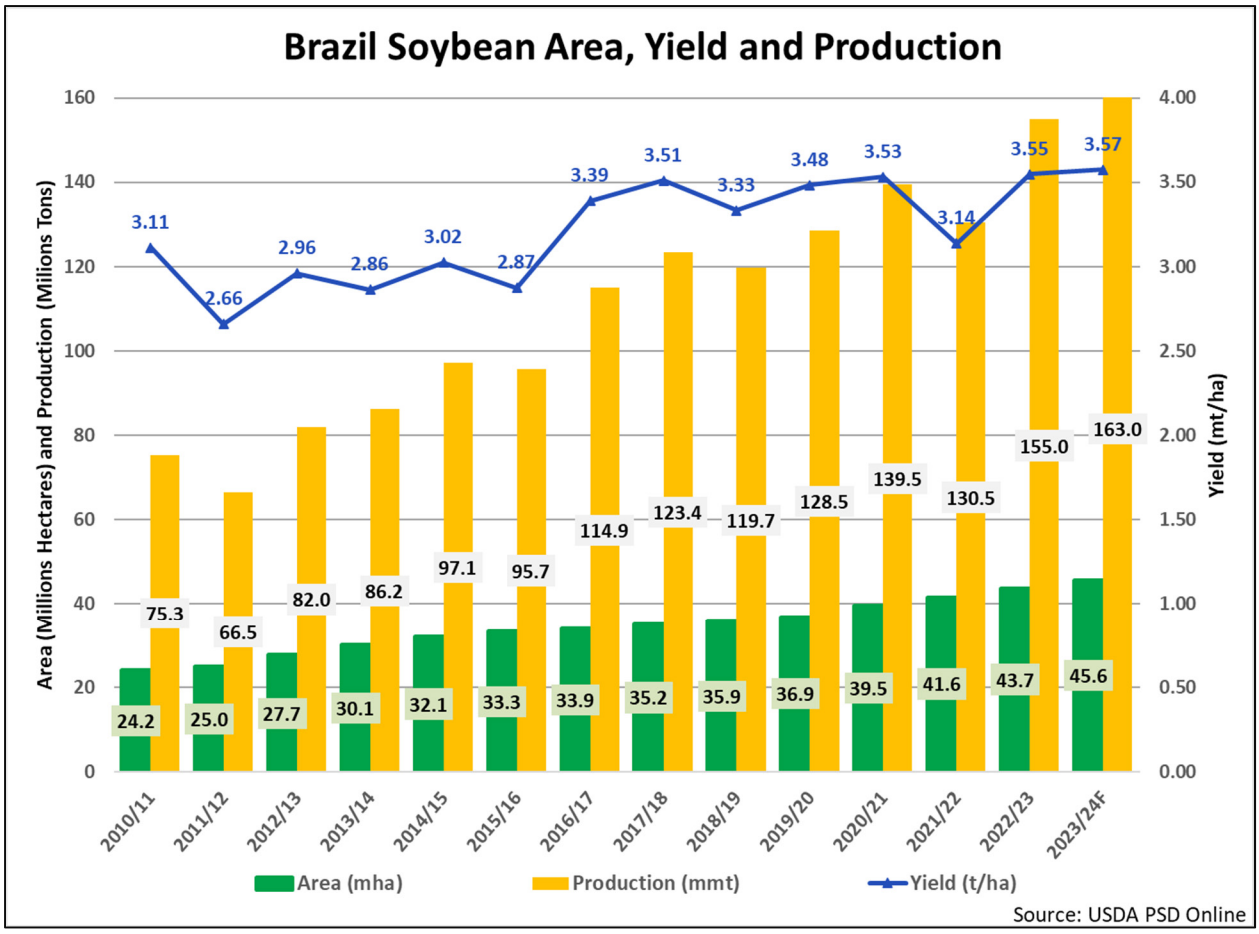
Sunflowerseed yield, which highly depends on quality inputs, is expected to decrease relative to last year. Generally, sunflowerseed yield has been increasing over the last decade as a result of the increased usage of imported hybrid seeds and fertilizers. A drop in yield is expected for the MY

2023/24 season due to a number of issues caused by the ongoing conflict, including the blockage of major ports in the Black Sea, which has disrupted supply chains. In addition, Ukraine's agricultural producers face financial issues, shortages of hybrid seeds, fertilizers, and agrochemicals, as well as limited access to functional agricultural equipment.

USDA crop production estimates for Ukraine include estimated output from Crimea. *(For more information, please contact Iliana.Mladenova@usda.gov.)*

Brazil Soybeans: MY 2022/23 Bumper Crop Pushes Upwards

Brazil soybean production for marketing year (MY) 2022/23 is estimated at 155.0 million metric tons (mmt), higher by 1.0 mmt (1 percent) from last month, and higher by 24.5 mmt (19 percent) from last year. Harvested area is estimated at 43.7 million hectares (mha), unchanged from last month and up 2.1 mha (5 percent) from last season. Yield is estimated at 3.55 tons per hectare (t/ha), about 1 percent above last month and up 13 percent from last year. USDA forecasts the MY 2023/24 soybean production at a record 163.0 mmt; planting for this crop will begin in October 2023.



Nationally, over 94 percent of the soybean crop has been harvested as of early May. The majority of the remaining crop is in the southern state of Rio Grande do Sul, where 80 percent of the crop

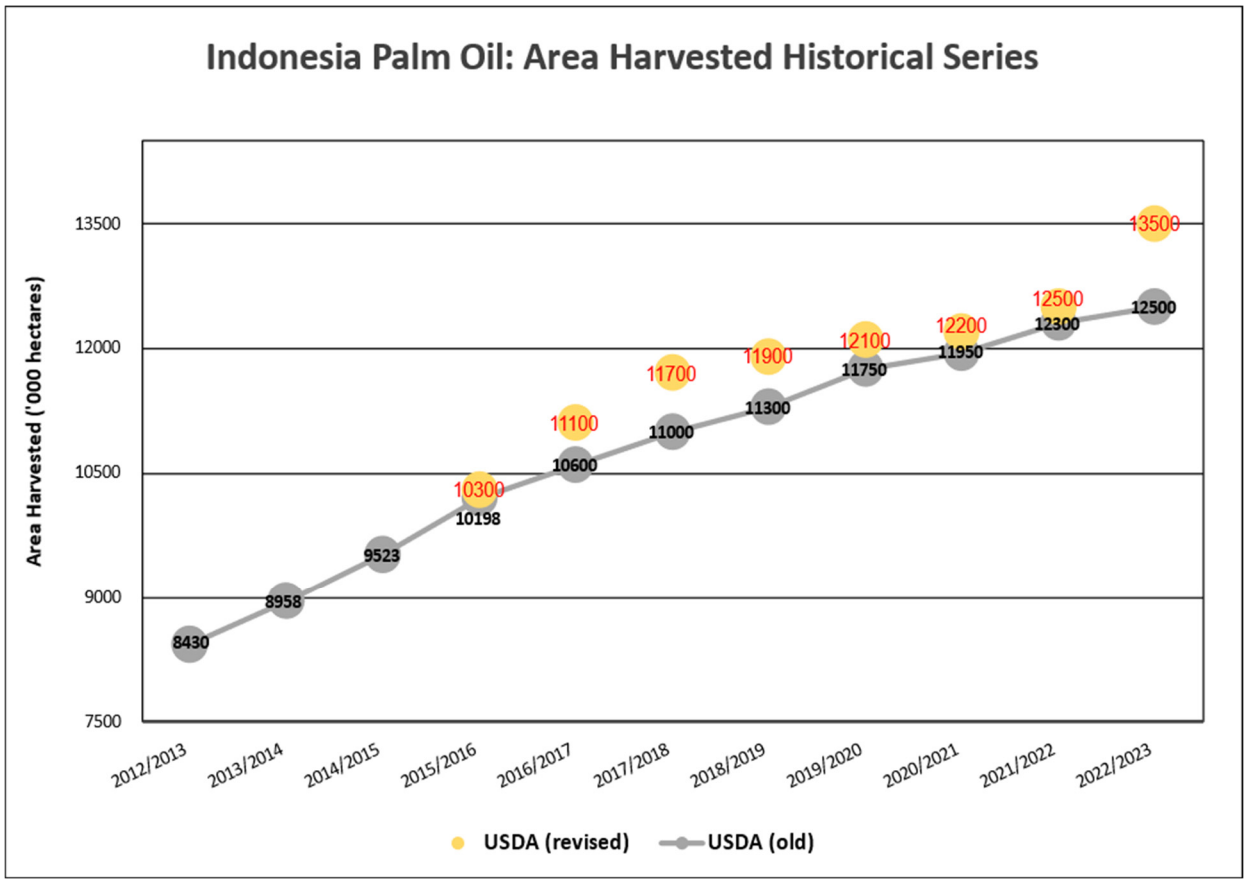
has been harvested compared to the five-year average of 90 percent (as reported by Technical Assistance and Rural Extension agency, EMATER-RS).

Soybean yields in the state of Rio Grande do Sul suffered; forecasts were reduced over 38 percent from the start of the season. Meanwhile, sufficient rainfall over most of Brazil resulted in abundant production and record yields in several states. The top yield from the major producing states, based on data from *Companhia Nacional de Abastecimento* (CONAB), is a record in Bahia (4.12 t/ha), followed by a record in Mato Grosso (3.76 t/ha). The Paraná Department of Agriculture (SEAB/DERAL) also reports a record yield in the state of 3.87 t/ha. In the northeast, most of the crop has been harvested also on a record area and reported record production in several states. (*For more information, please contact Sunita.Yadav-Pauletti@usda.gov.*)

Indonesia Palm Oil: MY 2022/23 Estimated Production Revised Up and Historical Series Revised

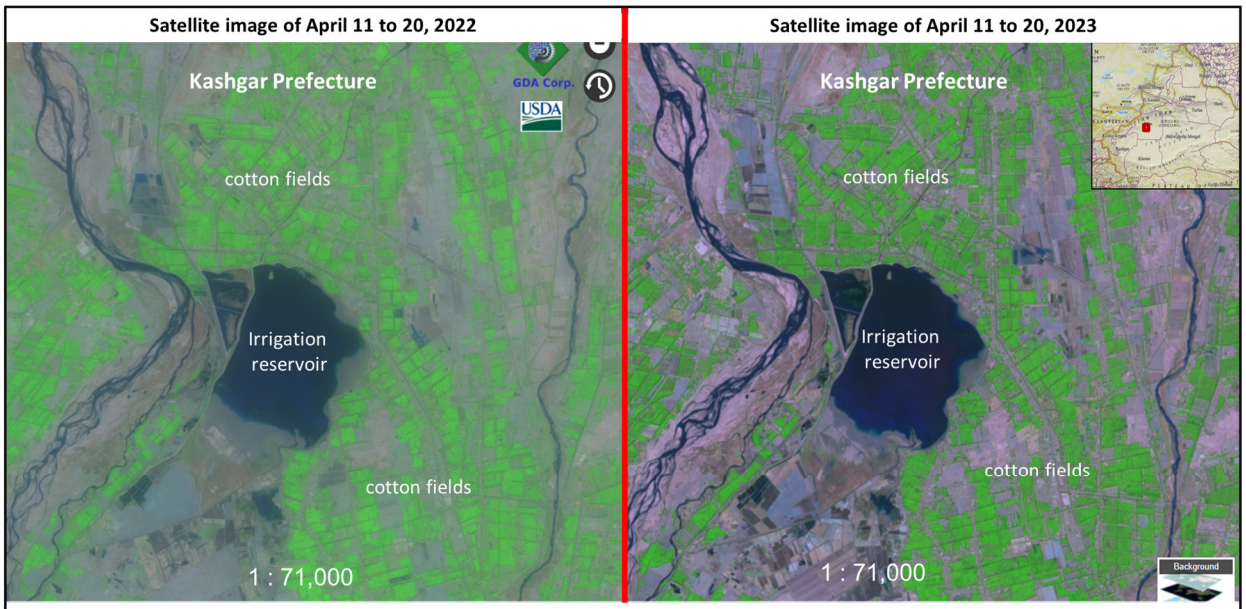
USDA estimates Indonesia palm oil production for marketing year (MY) 2022/23 at 46.0 million metric tons, up 1 percent from last month and up 10 percent from last year. Harvested area is estimated at 13.5 million hectares, up 8 percent from last month and last year. Yield is estimated at 3.41 tons per hectare, down 6 percent from last month and 1 percent from last year.

Indonesia's palm oil production has been revised upward due to higher-than-expected palm oil total planted area. Over the past few years advances in remote sensing methodologies have enhanced the ability to understand Indonesia's palm oil acreage. In Indonesia's latest Ministry of Agriculture plantation statistics publication, generated by the Directorate General of Estate Crops (DGEC), total palm oil planted area was reported at 16.8 million hectares using remote sensing data. The newly released data estimates using remote sensing methods showed an additional 2.2 million hectares of planted palm oil area up from DGEC farm survey and local agency-collected data.



Total palm oil area is separated into two distinct categories, immature and mature, due to the time lag of when palm oil starts to yield. It typically takes up to 4 years for an immature palm oil crop to start maturing. USDA refers to harvested area for the mature crop only. Due to the higher-than-expected Indonesia palm oil planted area, USDA revised its May harvested area estimate for MY 2022/23 up 1.0 million hectares from last month's estimate. USDA has also revised its historical area series for Indonesia palm oil based on remote sensing data. As a result, Indonesia's palm oil production historical series has been revised. *(For more information, please contact Justin.Jenkins@usda.gov)*

China Cotton: MY 2023/24 Production Projected to Decline Year-over-Year

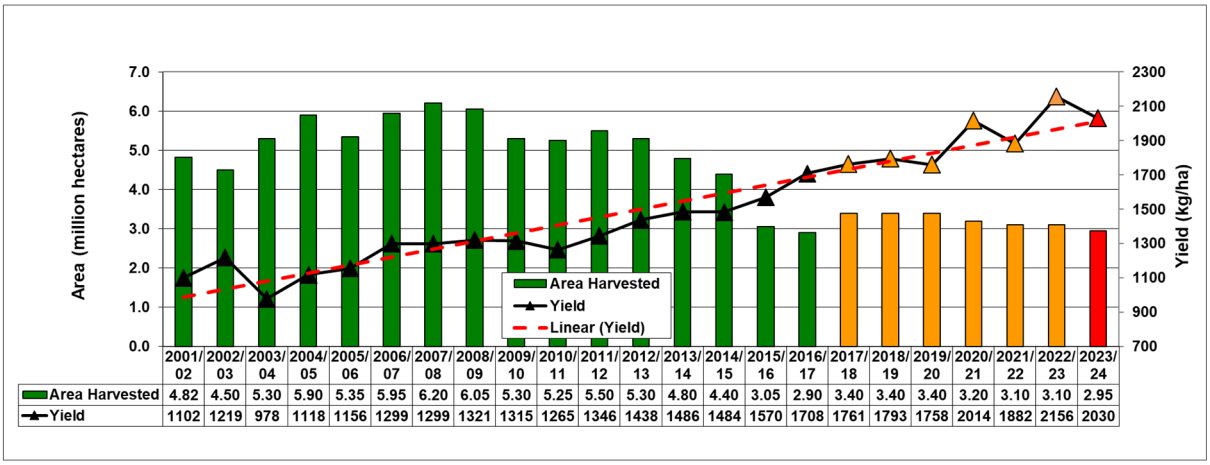


Satellite data indicates no significant differences in crop cotton conditions and irrigation water availability at the start-of-season in 2022 (left image) and 2023 (right image)

Source: GDA GeoChronicles 10-day 10m Surface Reflectance (SWIR1/NIR/Red)

USDA forecasts China's marketing year (MY) 2023/24 cotton production at 27.5 million 480-pound bales (6.0 million metric tons), down 3.2 million bales or 10 percent from last year and down 4 percent from the 5-year average of 28.5 million bales. Area is forecast at 3.0 million hectares (mha), down 5 percent from last year's 3.1 mha, and down approximately 9 percent from the 5-year average of 3.2 mha. Yield is forecast at the long-term trend of 2,030 kilograms per hectare (kg/ha), down 6 percent from last year's record yield of 2,156 kg/ha, but 6 percent above the 5-year average of 1,921 kg/ha. Yields continue to be above or near the long-term trend due to the increasing quantity of cotton produced in Xinjiang province, where yields are nearly double those elsewhere in China. Approximately 90 percent of China's cotton is now produced in Xinjiang province. Most of the major cotton forecasts from industry sources are indicating lower planted area and yields compared to last year.

China Cotton Harvested Area and Yield

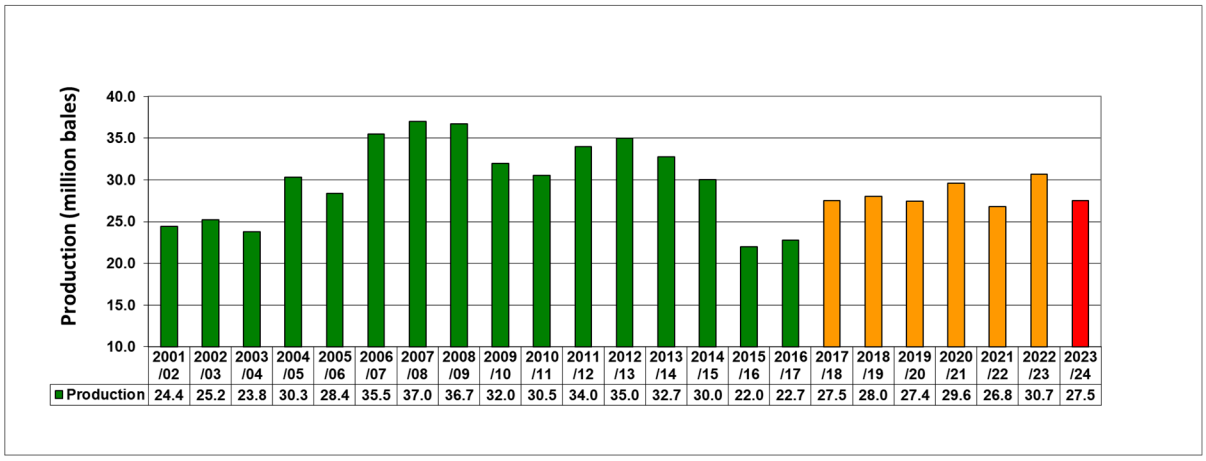


	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Area Harvested	4.82	4.50	5.30	5.90	5.35	5.95	6.20	6.05	5.30	5.25	5.50	5.30	4.80	4.40	3.05	2.90	3.40	3.40	3.40	3.20	3.10	3.10	2.95
Yield	1102	1219	978	1118	1156	1299	1299	1321	1315	1265	1346	1438	1486	1484	1570	1708	1761	1793	1758	2014	1882	2156	2030

Source: USDA PSD Online

The typical China cotton growing season is April to October. In Xinjiang, planting starts in April, while in the Yellow River and Yangtze River basins, planting begins in late April and extends through May. Thus far, the start of MY 2023/24 season is characterized by favorable soil moisture conditions and good irrigation water availability. The concern, however, are reports of below-average mid-to-late April temperatures in Xinjiang. Cotton does not do well with cold temperatures and these conditions may have necessitated replanting.

China Cotton Production



	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Production	24.4	25.2	23.8	30.3	28.4	35.5	37.0	36.7	32.0	30.5	34.0	35.0	32.7	30.0	22.0	22.7	27.5	28.0	27.4	29.6	26.8	30.7	27.5

Source: USDA PSD Online

Xinjiang cotton farmers continue to be encouraged by the government's maintenance of a target price-based cotton subsidy. On March 26, 2020, China's National Development and Reform Commission (NDRC) published that the target price-based subsidy will continue through 2023. The projected year-to-year cotton national area decline is due to anticipated decreases in both Xinjiang and in Eastern China, in the Yangtze and Yellow River basins. Xinjiang's yields were extraordinarily high in MY 2022/23, and much China's projected decline in production is driven by the expected decline in Xinjiang's yields. *(For more information, please contact Dath.Mita@usda.gov.)*

World Agricultural Production
U.S. Department of Agriculture
Foreign Agricultural Service / Global Market Analysis
International Production Assessment Division (IPAD)
Ag Box 1051, Room 4630, South Building
Washington, DC 20250-1051
https://ipad.fas.usda.gov/
Telephone: (202) 720-1662 Fax: (202) 720-1158

This report uses information from the Foreign Agricultural Service's (FAS) global network of agricultural attachés and counselors, official statistics of foreign governments and other foreign source materials, and the analysis of economic data and satellite imagery. Estimates of foreign area, yield, and production are from the International Production Assessment Division, FAS, and are reviewed by USDA's Inter-Agency Commodity Estimates Committee. Estimates of U.S. area, yield, and production are from USDA's National Agricultural Statistics Service. Numbers within the report may not add to totals because of rounding. This report reflects official USDA estimates released in the World Agricultural Supply and Demand Estimates (WASDE-584), May 12, 2023.

The FAS International Production Assessment Division prepared this report. The next issue of World Agricultural Production will be released after 12:00 p.m. Eastern Time, June 9, 2023.

Conversion Table

Metric tons to bushels

Wheat, soybeans	=	MT * 36.7437
Corn, sorghum, rye	=	MT * 39.36825
Barley	=	MT * 45.929625
Oats	=	MT * 68.894438

Metric tons to 480-lb bales

Cotton	=	MT * 4.592917

Metric tons to hundredweight

Rice	=	MT * 22.04622

Area & weight

1 hectare	=	2.471044 acres
1 kilogram	=	2.204622 pounds

For further information, contact:
U.S. Department of Agriculture
Foreign Agricultural Service
Global Market Analysis
International Production Assessment Division
Ag Box 1051, Room 4630, South Building
Washington, DC 20250-1051

Telephone: (202) 720-1662 Fax: (202) 720-1158

GENERAL INFORMATION

Senior Director	Ronald Frantz	202-720-4056	ronald.frantz@usda.gov
Director	Robert Tetrault	202-720-1071	robert.tetrault@usda.gov
Administrative Assistant	Vacant		
USDA Remote Sensing Advisor	Vacant		
Sr. Analyst/Technical Lead	Curt Reynolds, Ph.D.	202-690-0134	curt.reynolds@usda.gov
Sr. Analyst/ Satellite Imagery Archives Manager/Technical Lead	Dath Mita, Ph.D.	202-720-7339	dath.mita@usda.gov
Sr. Analyst/Technical Lead	Jim Crutchfield	202-690-0135	james.crutchfield@usda.gov
GIS Mapping/Imagery Analyst	Lisa Colson	202-720-6652	lisa.colson@usda.gov
WAP Coordinators	Ifeoma Collins	202-720-0240	ifeoma.collins@usda.gov
	Aaron Mulhollen	202-690-0131	aaron.mulhollen@usda.gov

COUNTRY- AND REGION-SPECIFIC INFORMATION

South America, Argentina, Venezuela, and Colombia	Katie McGaughey	202-720-9210	katie.mcgaughey@usda.gov
Western and Central Europe, and North Africa	Bryan Purcell	202-690-0138	bryan.purcell@usda.gov
Russia, Ukraine, Kazakhstan, Moldova, and Belarus	Iliana Mladenova, Ph.D.	202-690-2315	iliana.mladenova@usda.gov
South Asia, Sri Lanka Bangladesh, India, and Nepal	Arnella Trent	202-720-0881	arnella.trent@usda.gov
East Asia, China, and Japan	Dath Mita, Ph.D.	202-720-7339	dath.mita@usda.gov
Sub-Saharan Africa, Nigeria and South Africa	Curt Reynolds, Ph.D.	202-690-0134	curt.reynolds@usda.gov
S.E. Asia, Indonesia, Thailand, Malaysia, Cambodia and Vietnam	Justin Jenkins	202-720-0419	justin.jenkins@usda.gov
Central America, Mexico, and Western United States	Ifeoma Collins	202-720-0240	ifeoma.collins@usda.gov
Australia, New Zealand, Pakistan Papua New Guinea and South Pacific Islands	Jim Crutchfield	202-690-0135	james.crutchfield@usda.gov
Middle East, Central Asia, Afghanistan Iraq, Iran, and Syria	Aaron Mulhollen	202-690-0131	aaron.mulhollen@usda.gov
Canada, Caribbean, Eastern United States	Aaron Mulhollen	202-690-0131	aaron.mulhollen@usda.gov
Brazil	Sunita Yadav-Pauletti, Ph.D.		sunita.yadav-pauletti@usda.gov

The Foreign Agricultural Service (FAS) updates its production, supply and distribution (PSD) database for cotton, oilseeds, and grains at 12:00 p.m. on the day the *World Agricultural Supply and Demand Estimates* (WASDE) report is released. This circular is released by 12:15 p.m.

FAS Reports and Databases:

World Agricultural Production
Current: https://www.fas.usda.gov/data/world-agricultural-production
Archive: https://usda.library.cornell.edu/concern/publications/5q47rn72z?locale=en
USDA's Foreign Agricultural Service (FAS) publishes a monthly report on crop acreage, yield and production in major countries worldwide. Sources include reporting from FAS's worldwide offices, official statistics of foreign governments, and analysis of economic data and satellite imagery. The reports reflect official USDA estimates released in the monthly *World Agricultural Supply and Demand Estimates* (WASDE).

World Markets and Trade
Current: https://www.fas.usda.gov/data
Archive:
https://usda.library.cornell.edu/catalog?f%5Bmember_of_collections_ssim%5D%5B%5D=Foreign+Agricultural+Service&locale=en
USDA's Foreign Agricultural Service (FAS) publishes monthly and quarterly reports which include data on U.S. and global trade, production, consumption and stocks, as well as analysis of developments affecting world trade in oilseeds, grains, cotton, livestock and poultry. The reports reflect official USDA estimates released in the monthly *World Agricultural Supply and Demand Estimates* (WASDE).

Global Agricultural Information Network (GAIN)
https://gain.fas.usda.gov/
USDA's Foreign Agricultural Service (FAS) provides timely reports on foreign markets through the Global Agriculture Information Network (GAIN) database. An average of 2,000 reports are added each year, with reports going back to 1995. GAIN reports are compiled by FAS' global market intelligence network, which includes FAS foreign service officers and locally engaged staff in over 90 overseas offices world-wide. They provide on-the-ground intelligence, insight, and analysis on nearly 200 countries, delivering information on foreign agricultural markets, crop conditions, and agro-political dynamics of interest to U.S. agriculture. GAIN reports contain assessments of commodity and trade issues made by USDA staff and are not necessarily statements of official U.S. government policy.

Production, Supply and Distribution (PS&D) Online
https://apps.fas.usda.gov/psdonline/app/index.html#/app/home
PSD Online is the public repository for USDA's Official Production, Supply and Distribution forecast data and reports for key agricultural commodities. PSD Online data are reviewed and updated monthly by an interagency committee chaired by USDA's World Agricultural Outlook Board (WAOB). The committee consist of representatives from Foreign Agricultural Service (FAS), the Economic Research Service (ERS), the Farm Service Agency (FSA), and the Agricultural Marketing Service (AMS).

EU Countries and Russia Wheat: Area and Production Estimates
https://apps.fas.usda.gov/psdonline/app/index.html#/app/downloads (click on PSD Datasets)
USDA's Foreign Agricultural Service (FAS) provides country-level area and production estimates for the nations of the European Union. For Russia, country-level area and production estimates are provided for Winter and Spring wheat. These datasets are reviewed and updated monthly by an interagency committee chaired by USDA's World Agricultural Outlook Board (WAOB) and can be downloaded through PSD datasets on PSD Online.

FAS Reports and Databases:

International Production Assessment (IPAD)
https://ipad.fas.usda.gov/
USDA's Foreign Agricultural Service (FAS) maintains a dynamic global crop production portal with key information including *World Agricultural Production* (WAP) briefs, Commodity Intelligence Reports (CIR), geospatial applications, crop production maps at a subnational level and crop calendars for the top-20 producing countries. Additionally, Crop Explorer (https://ipad.fas.usda.gov/cropexplorer/) displays rainfall, temperature, evapotranspiration, soil moisture, snow cover, and vegetation conditions in charts and maps.

USDA and NASA Global Agricultural Monitoring (GLAM)
https://glam1.gsfc.nasa.gov/
The USDA and NASA Global Agricultural Monitoring (GLAM) system provides near real-time and science quality Moderate Resolution Imaging Spectroradiometer (MODIS) Normalized Difference Vegetation Index (NDVI) from the satellites Terra and Aqua. The public can view and retrieve MODIS 8-day composited, global NDVI satellite imagery and time series data. GLAM was developed by NASA's Global Inventory Modeling and Mapping Studies (GIMMS) group for USDA's Foreign Agricultural Service.

Global Agricultural and Disaster Assessment System (GADAS)
https://geo.fas.usda.gov/GADAS/index.html
USDA's Foreign Agricultural Service (FAS) provides the Global Agricultural and Disaster Assessment System (GADAS), a web-based Geographic Information System (GIS) tool which integrates a vast array of highly detailed earth observation data streams, particularly targeted towards agricultural and disaster assessment analysis. GADAS is an interactive website which provides analysts with a wide variety of routine geospatial products (maps, charts, tables) they require for comprehensive situational investigations and recurring assessments.

Export Sales Reporting
https://apps.fas.usda.gov/esrquery/
USDA's Export Sales Reporting Program monitors U.S. agricultural export sales on a daily and weekly basis. Export sales reporting provides a constant stream of up-to-date market information for 40 U.S. agricultural commodities sold abroad. The weekly U.S. Export Sales report is the most currently available source of U.S. exports sales data. The data is used to analyze overall levels of export demand, determine where markets exit, and assess the relative position of U.S. commodities in foreign markets.

Global Agricultural Trade System (GATS)
https://apps.fas.usda.gov/gats/default.aspx
The Global Agricultural Trade System (GATS) is a searchable database containing monthly U.S. Census Bureau trade data organized by agricultural commodity and agricultural related product groups. Trade data is searchable by partner countries and partner groups. Historical U.S. agricultural trade data is available back to 1967. In addition, U.N. trade statistics (UN Comtrade) may be queried through GATS. UN trade data is available for nearly 200 countries or areas, dating from the inception of the Harmonized System (HS) of trade codes in 1989 to present. The database is continuously updated. U.S. trade data is updated monthly according to the U.S. Census Bureau's reporting system. UN Comtrade data are updated in GATS after nationally submitted data to the UN are standardized by the UN Statistical Division and added to the UN Comtrade database.

Other USDA Reports:

World Agricultural Supply and Demand Estimates (WASDE):
http://www.usda.gov/oce/commodity/wasde/
Economic Research Service:
http://www.ers.usda.gov/topics/crops
National Agricultural Statistics Service:
http://www.nass.usda.gov/Publications/

Table 01 World Crop Production Summary

Million Metric Tons

Commodity	World -	Total Foreign	North America			Former Soviet		European	Asia (WAP)					South America		Selected Other			All Others
			United States	Canada -	Mexico -	Russia -	Ukraine -		China -	India -	Indo-nesia	Paki-stan	Thai-land	Argen-tina	Brazil -	Aus-tralia	South Africa	Turkey -	
	---Million metric tons---																		
Wheat																			
2021/22	780.3	735.5	44.8	22.4	3.3	75.2	33.0	nr	136.9	109.6	0.0	27.5	0.0	22.2	7.7	36.2	2.3	16.0	243.3
2022/23 prel.	788.3	743.4	44.9	33.8	3.6	92.0	20.9	nr	137.7	104.0	0.0	26.4	0.0	12.6	10.4	39.0	2.1	17.3	243.7
2023/24 proj.																			
May	789.8	744.6	45.2	37.0	3.3	81.5	16.5	nr	140.0	110.0	0.0	26.8	0.0	19.5	10.0	29.0	2.0	19.0	250.0
Coarse Grains																			
2021/22	1,504.0	1,106.3	397.7	25.1	32.8	38.5	53.5	nr	280.9	51.4	12.7	11.0	5.4	59.2	120.6	19.2	16.6	11.6	367.8
2022/23 prel.	1,441.3	1,082.9	358.5	30.5	33.5	44.1	34.1	nr	285.5	51.9	12.9	9.9	5.3	45.7	134.6	18.7	17.2	14.8	344.4
2023/24 proj.																			
May	1,509.5	1,107.5	402.0	28.3	33.2	42.2	28.7	nr	288.3	53.3	13.1	11.0	5.5	62.6	134.3	13.7	17.4	16.8	359.1
Rice, Milled																			
2021/22	513.9	507.8	6.1	0.0	0.2	0.7	0.0	nr	149.0	129.5	34.4	9.3	19.9	0.8	7.3	0.5	0.0	0.5	155.6
2022/23 prel.	508.4	503.3	5.1	0.0	0.1	0.6	0.0	nr	145.9	132.0	34.0	5.5	20.2	0.8	6.8	0.4	0.0	0.6	156.4
2023/24 proj.																			
May	520.5	514.4	6.1	0.0	0.2	0.7	0.0	nr	149.0	133.0	34.5	9.0	20.5	0.8	6.8	0.5	0.0	0.6	158.9
Total Grains																			
2021/22	2,798.1	2,349.5	448.6	47.5	36.2	114.4	86.6	nr	566.8	290.4	47.1	47.8	25.2	82.1	135.7	56.0	18.9	28.1	766.7
2022/23 prel.	2,738.0	2,329.5	408.5	64.4	37.2	136.7	55.0	nr	569.2	287.9	46.9	41.8	25.5	59.0	151.8	58.0	19.2	32.6	744.4
2023/24 proj.																			
May	2,819.8	2,366.5	453.3	65.3	36.7	124.3	45.2	nr	577.3	296.3	47.6	46.9	26.0	82.9	151.1	43.2	19.4	36.4	768.0
Oilseeds																			
2021/22	610.6	479.3	131.4	20.1	0.9	23.1	24.3	nr	62.3	43.2	14.3	3.4	1.0	49.7	135.5	8.7	3.2	3.4	86.4
2022/23 prel.	627.4	501.5	125.9	25.6	0.9	26.3	18.8	nr	68.0	41.4	14.8	2.3	1.0	32.8	160.4	10.0	3.6	4.0	91.5
2023/24 proj.																			
May	671.2	538.4	132.8	26.9	0.8	26.1	19.6	nr	67.7	42.4	14.9	3.1	1.0	53.7	168.5	7.1	3.8	3.3	99.4
Cotton																			
2021/22	115.8	98.3	17.5	0.0	1.2	0.0	0.0	1.7	26.8	24.4	0.0	6.0	0.0	1.5	11.7	5.9	0.1	3.8	15.2
2022/23 prel.	116.4	101.9	14.5	0.0	1.6	0.0	0.0	1.6	30.7	24.5	0.0	3.9	0.0	1.2	13.0	5.5	0.1	4.9	14.9
2023/24 proj.																			
May	115.7	100.2	15.5	0.0	1.3	0.0	0.0	1.5	27.5	25.5	0.0	5.3	0.0	1.3	13.3	5.8	0.1	3.5	15.2

1/ Includes wheat, coarse grains, and rice (milled) shown above.

Table 02 Wheat Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	221.41	220.30	221.38	3.52	3.58	3.57	780.29	788.26	789.76			1.50	0.19
United States	15.03	14.36	15.01	2.98	3.13	3.01	44.80	44.90	45.16			0.26	0.57
Total Foreign	206.38	205.94	206.37	3.56	3.61	3.61	735.49	743.36	744.61			1.24	0.17
European Union	24.28	24.35	24.43	5.69	5.52	5.69	138.24	134.34	139.00			4.66	3.47
United Kingdom	1.79	1.81	1.83	7.81	8.59	8.47	13.99	15.54	15.50			-0.04	-0.26
Serbia	0.60	0.63	0.63	5.75	4.93	5.30	3.44	3.11	3.34			0.23	7.40
China	23.57	23.52	23.60	5.81	5.86	5.93	136.95	137.72	140.00			2.28	1.65
South Asia													
India	31.13	30.46	31.50	3.52	3.41	3.49	109.59	104.00	110.00			6.00	5.77
Pakistan	9.17	9.00	9.00	3.00	2.93	2.98	27.46	26.40	26.81			0.41	1.55
Afghanistan	2.05	2.20	2.20	2.45	2.05	2.18	5.02	4.50	4.80			0.30	6.67
Nepal	0.72	0.72	0.72	2.90	2.92	2.92	2.08	2.10	2.10			0.00	0.00
Former Soviet Union - 12													
Russia	27.63	29.00	27.50	2.72	3.17	2.96	75.16	92.00	81.50			-10.50	-11.41
Russia Winter	15.22	16.30	15.00	3.43	4.17	3.87	52.19	68.00	58.00			-10.00	-14.71
Russia Spring	12.41	12.70	12.50	1.85	1.89	1.88	22.96	24.00	23.50			-0.50	-2.08
Ukraine	7.41	5.30	4.30	4.45	3.94	3.84	33.01	20.90	16.50			-4.40	-21.05
Kazakhstan	12.72	12.81	12.50	0.93	1.28	1.12	11.81	16.40	14.00			-2.40	-14.65
Uzbekistan	1.24	1.40	1.40	4.83	4.42	4.64	5.99	6.19	6.50			0.31	4.99
Belarus	0.65	0.68	0.68	3.54	3.48	3.38	2.30	2.35	2.30			-0.05	-2.13
Canada	9.20	10.08	10.60	2.44	3.35	3.49	22.42	33.82	37.00			3.18	9.39
South America													
Argentina	6.55	5.50	6.50	3.38	2.28	3.00	22.15	12.55	19.50			6.95	55.38
Brazil	2.74	3.09	3.30	2.81	3.37	3.03	7.70	10.40	10.00			-0.40	-3.85
Australia	12.73	13.00	12.50	2.85	3.00	2.32	36.24	39.00	29.00			-10.00	-25.64
Africa													
Egypt	1.40	1.45	1.35	6.43	6.41	6.42	9.00	9.30	8.67			-0.63	-6.77
Morocco	2.86	2.50	2.55	2.64	1.08	1.49	7.54	2.70	3.80			1.10	40.74
Algeria	2.08	2.08	2.08	1.20	1.78	1.30	2.50	3.70	2.70			-1.00	-27.03
Ethiopia	1.95	2.30	2.50	2.83	3.04	3.00	5.52	7.00	7.50			0.50	7.14
Middle East													
Turkey	7.05	6.80	7.20	2.27	2.54	2.64	16.00	17.25	19.00			1.75	10.14
Iran	6.00	6.20	6.20	2.00	2.13	2.34	12.00	13.20	14.50			1.30	9.85
Iraq	2.00	2.00	2.20	1.75	1.50	1.91	3.50	3.00	4.20			1.20	40.00
Syria	1.10	1.20	1.20	1.82	1.75	2.33	2.00	2.10	2.80			0.70	33.33
Mexico	0.55	0.59	0.55	6.00	6.07	6.00	3.28	3.57	3.30			-0.27	-7.61
Others	7.24	7.29	7.35	2.85	2.77	2.76	20.61	20.21	20.29			0.08	0.39

World and Selected Countries and Regions

Table 03 Total Coarse Grain Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	344.52	336.37	337.94	4.37	4.28	4.47	1,503.97	1,441.33	1,509.53			68.20	4.73
United States	38.34	35.39	37.59	10.37	10.13	10.69	397.71	358.47	402.01			43.55	12.15
Total Foreign	306.18	300.99	300.34	3.61	3.60	3.69	1,106.26	1,082.86	1,107.51			24.65	2.28
China	45.77	45.52	45.44	6.14	6.27	6.35	280.85	285.50	288.30			2.80	0.98
European Union	27.74	26.76	26.73	5.58	5.00	5.48	154.77	133.84	146.40			12.56	9.38
United Kingdom	1.43	1.34	1.32	5.88	6.44	6.29	8.41	8.64	8.33			-0.31	-3.61
South America													
Brazil	23.37	24.40	24.77	5.16	5.52	5.42	120.62	134.60	134.33			-0.28	-0.21
Argentina	9.84	9.48	9.38	6.01	4.82	6.67	59.16	45.71	62.58			16.87	36.92
Former Soviet Union - 12													
Russia	14.01	13.60	13.55	2.75	3.25	3.11	38.54	44.13	42.15			-1.98	-4.49
Ukraine	8.66	6.23	5.52	6.18	5.47	5.20	53.51	34.06	28.67			-5.39	-15.81
Kazakhstan	2.63	2.63	2.55	1.43	1.79	1.72	3.76	4.71	4.39			-0.32	-6.81
Belarus	0.99	1.03	1.05	3.05	3.11	3.09	3.00	3.20	3.23			0.03	0.94
Africa													
Nigeria	13.70	13.50	13.40	1.56	1.59	1.54	21.40	21.51	20.70			-0.81	-3.75
South Africa	3.19	3.18	3.20	5.22	5.39	5.43	16.64	17.16	17.37			0.22	1.26
Tanzania	5.74	5.30	5.30	1.47	1.36	1.36	8.45	7.23	7.23			0.00	0.00
Burkina Faso	4.20	4.24	4.20	1.00	1.16	1.13	4.20	4.92	4.75			-0.17	-3.49
Ethiopia	5.60	5.64	5.65	3.10	3.19	3.24	17.37	17.95	18.30			0.35	1.95
Egypt	1.16	1.16	1.18	7.13	7.13	7.15	8.30	8.30	8.46			0.16	1.93
Mali	5.16	4.80	4.80	1.23	1.49	1.42	6.34	7.15	6.80			-0.35	-4.87
India	23.35	23.80	23.84	2.20	2.18	2.24	51.39	51.91	53.30			1.39	2.68
Southeast Asia													
Indonesia	3.90	3.95	4.00	3.26	3.27	3.28	12.70	12.90	13.10			0.20	1.55
Philippines	2.56	2.50	2.57	3.26	3.32	3.27	8.34	8.30	8.40			0.10	1.20
Vietnam	0.90	0.87	0.83	4.92	4.97	5.06	4.45	4.30	4.20			-0.10	-2.33
Thailand	1.23	1.21	1.23	4.36	4.35	4.44	5.35	5.25	5.45			0.20	3.81
Mexico	8.88	8.98	9.04	3.69	3.73	3.68	32.79	33.45	33.24			-0.21	-0.63
Canada	5.91	5.74	5.22	4.25	5.32	5.43	25.12	30.54	28.35			-2.19	-7.17
Australia	6.69	5.74	5.58	2.87	3.25	2.46	19.22	18.67	13.74			-4.93	-26.38
Middle East													
Turkey	4.46	4.55	4.56	2.60	3.25	3.68	11.58	14.77	16.77			2.00	13.53
Iran	1.91	1.86	1.86	2.16	2.38	2.48	4.12	4.42	4.62			0.20	4.50
Others	73.19	73.01	73.61	1.72	1.64	1.69	125.90	119.76	124.37			4.61	3.85

World and Selected Countries and Regions; Coarse Grain includes: Barley, Corn, Millet, Mixed Grains, Oats, Rye and Sorghum

Table 04 Corn Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	207.25	201.24	203.03	5.87	5.72	6.01	1,217.31	1,150.20	1,219.63			69.42	6.04
United States	34.53	32.05	34.03	11.09	10.88	11.39	382.89	348.75	387.75			39.00	11.18
Total Foreign	172.72	169.18	168.99	4.83	4.74	4.92	834.42	801.45	831.88			30.42	3.80
China	43.32	43.07	43.00	6.29	6.44	6.51	272.55	277.20	280.00			2.80	1.01
South America													
Brazil	21.80	22.70	22.90	5.32	5.73	5.63	116.00	130.00	129.00			-1.00	-0.77
Argentina	7.10	6.70	7.00	6.97	5.52	7.71	49.50	37.00	54.00			17.00	45.95
Bolivia	0.44	0.44	0.44	2.60	2.64	2.70	1.13	1.15	1.18			0.03	2.17
European Union	9.23	8.87	8.65	7.73	5.97	7.43	71.37	52.97	64.30			11.33	21.38
Africa													
South Africa	3.00	3.00	3.00	5.38	5.57	5.60	16.14	16.70	16.80			0.10	0.60
Nigeria	6.00	5.80	5.70	2.12	2.20	2.11	12.75	12.74	12.00			-0.74	-5.77
Ethiopia	2.53	2.55	2.56	3.72	4.00	4.06	9.40	10.20	10.40			0.20	1.96
Egypt	0.93	0.93	0.95	8.00	8.00	8.00	7.44	7.44	7.60			0.16	2.15
Tanzania	4.40	4.00	4.00	1.60	1.48	1.48	7.04	5.90	5.90			0.00	0.00
Malawi	1.75	1.75	1.70	2.62	2.12	2.00	4.58	3.72	3.40			-0.32	-8.53
Zambia	1.41	1.12	1.15	2.57	2.43	2.35	3.62	2.71	2.70			-0.01	-0.22
Kenya	2.17	1.90	2.00	1.52	1.53	1.60	3.30	2.90	3.20			0.30	10.34
Uganda	1.10	1.10	1.10	2.55	2.55	2.55	2.80	2.80	2.80			0.00	0.00
Zimbabwe	1.95	1.90	1.80	1.39	0.76	0.83	2.72	1.45	1.50			0.05	3.23
Former Soviet Union - 12													
Ukraine	5.49	4.05	3.40	7.68	6.67	6.47	42.13	27.00	22.00			-5.00	-18.52
Russia	2.90	2.64	2.80	5.25	6.00	5.82	15.23	15.83	16.30			0.47	2.96
South Asia													
India	9.96	10.10	10.00	3.39	3.43	3.43	33.73	34.61	34.30			-0.31	-0.90
Pakistan	1.65	1.60	1.65	6.43	5.83	6.36	10.64	9.33	10.50			1.17	12.53
Nepal	0.97	0.97	0.97	2.82	2.82	2.82	2.72	2.72	2.72			0.00	0.00
Southeast Asia													
Indonesia	3.90	3.95	4.00	3.26	3.27	3.28	12.70	12.90	13.10			0.20	1.55
Philippines	2.56	2.50	2.57	3.26	3.32	3.27	8.34	8.30	8.40			0.10	1.20
Vietnam	0.90	0.87	0.83	4.92	4.97	5.06	4.45	4.30	4.20			-0.10	-2.33
Thailand	1.20	1.18	1.20	4.42	4.41	4.50	5.30	5.20	5.40			0.20	3.85
Mexico	7.09	7.20	7.25	3.77	3.83	3.78	26.76	27.60	27.40			-0.20	-0.72
Canada	1.46	1.44	1.40	9.99	10.07	10.21	14.61	14.54	14.30			-0.24	-1.64
Turkey	0.54	0.53	0.64	12.04	12.83	12.81	6.50	6.80	8.20			1.40	20.59
Others	26.97	26.34	26.34	2.63	2.56	2.67	70.99	67.45	70.28			2.83	4.20

World and Selected Countries and Regions

Table 05 Barley Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	49.17	47.24	46.47	2.96	3.22	3.17	145.79	151.99	147.37			-4.62	-3.04
United States	0.81	0.99	0.97	3.25	3.85	4.10	2.62	3.80	3.98			0.19	4.95
Total Foreign	48.37	46.25	45.50	2.96	3.20	3.15	143.17	148.19	143.39			-4.81	-3.24
European Union	10.30	10.42	10.40	5.05	4.97	5.06	52.05	51.79	52.60			0.81	1.57
United Kingdom	1.15	1.10	1.09	6.05	6.69	6.59	6.96	7.39	7.15			-0.24	-3.18
Former Soviet Union - 12													
Russia	7.69	7.75	7.50	2.28	2.77	2.60	17.51	21.50	19.50			-2.00	-9.30
Ukraine	2.68	1.85	1.80	3.70	3.34	3.28	9.92	6.18	5.90			-0.28	-4.53
Kazakhstan	2.16	2.18	2.10	1.10	1.51	1.43	2.37	3.29	3.00			-0.29	-8.73
Belarus	0.35	0.40	0.40	2.86	2.75	2.75	1.00	1.10	1.10			0.00	0.00
Azerbaijan	0.37	0.38	0.38	3.07	2.93	2.93	1.15	1.10	1.10			0.00	0.00
Canada	3.01	2.64	2.60	2.32	3.79	3.77	6.98	9.99	9.80			-0.19	-1.87
Australia	5.10	4.10	4.00	2.81	3.44	2.50	14.34	14.10	10.00			-4.10	-29.08
Middle East													
Turkey	3.70	3.80	3.70	1.22	1.95	2.16	4.50	7.40	8.00			0.60	8.11
Iran	1.70	1.65	1.65	1.59	1.82	1.94	2.70	3.00	3.20			0.20	6.67
Iraq	0.60	0.60	0.60	1.17	1.13	1.25	0.70	0.68	0.75			0.07	10.29
Syria	0.80	0.90	0.90	0.81	0.78	1.11	0.65	0.70	1.00			0.30	42.86
Africa													
Ethiopia	0.96	0.97	0.98	2.45	2.47	2.46	2.35	2.40	2.40			0.00	0.00
Morocco	1.49	1.10	1.20	1.87	0.64	0.92	2.78	0.70	1.10			0.40	57.14
Algeria	1.03	1.03	1.03	0.93	1.56	1.00	0.95	1.60	1.03			-0.58	-35.94
Tunisia	0.28	0.30	0.20	1.54	1.53	0.85	0.43	0.46	0.17			-0.29	-63.04
South Africa	0.10	0.10	0.11	3.52	3.06	3.41	0.33	0.31	0.38			0.07	21.36
South America													
Argentina	1.34	1.57	1.20	3.96	2.88	3.75	5.30	4.50	4.50			0.00	0.00
Uruguay	0.22	0.21	0.19	4.11	4.25	4.16	0.92	0.90	0.79			-0.11	-11.93
Brazil	0.11	0.12	0.13	3.79	3.92	3.96	0.43	0.48	0.50			0.01	2.70
India	0.59	0.45	0.74	2.80	3.02	2.86	1.66	1.37	2.10			0.73	53.28
China	0.51	0.51	0.50	3.92	3.92	4.00	2.00	2.00	2.00			0.00	0.00
Mexico	0.35	0.31	0.33	3.11	2.95	2.92	1.09	0.90	0.95			0.05	5.56
Afghanistan	0.04	0.08	0.08	1.63	1.38	1.38	0.07	0.11	0.11			0.00	0.00
Others	1.74	1.75	1.73	2.33	2.43	2.48	4.05	4.26	4.27			0.02	0.38

World and Selected Countries and Regions

Table 06 Oats Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	9.63	9.47	9.16	2.36	2.71	2.54	22.73	25.63	23.30			-2.33	-9.08
United States	0.26	0.36	0.36	2.20	2.33	2.39	0.58	0.84	0.87			0.03	4.06
Total Foreign	9.36	9.11	8.79	2.37	2.72	2.55	22.15	24.79	22.43			-2.36	-9.52
European Union	2.54	2.37	2.40	2.95	3.22	3.08	7.52	7.63	7.40			-0.23	-3.03
Former Soviet Union - 12													
Russia	2.17	2.13	2.10	1.72	2.11	1.95	3.73	4.50	4.10			-0.40	-8.89
Ukraine	0.18	0.15	0.15	2.61	2.60	2.33	0.48	0.39	0.35			-0.04	-10.26
Belarus	0.15	0.16	0.16	2.33	2.42	2.26	0.35	0.38	0.35			-0.03	-6.67
Kazakhstan	0.20	0.20	0.19	0.90	1.16	1.16	0.18	0.23	0.22			-0.01	-3.93
Canada	1.21	1.40	1.03	2.39	3.73	3.56	2.90	5.23	3.65			-1.58	-30.16
South America													
Argentina	0.35	0.28	0.29	2.07	2.30	2.14	0.73	0.65	0.61			-0.04	-5.43
Brazil	0.50	0.50	0.51	2.27	2.38	2.39	1.14	1.19	1.22			0.03	2.52
Chile	0.12	0.07	0.10	4.70	4.38	4.74	0.58	0.32	0.45			0.14	42.86
Uruguay	0.01	0.02	0.02	2.21	2.40	2.24	0.03	0.04	0.04			0.00	5.56
Oceania													
Australia	0.84	0.80	0.85	2.06	2.00	1.76	1.74	1.60	1.50			-0.10	-6.25
New Zealand	0.00	0.01	0.01	6.25	5.67	5.67	0.03	0.03	0.03			0.00	0.00
China	0.41	0.41	0.41	1.48	1.48	1.48	0.60	0.60	0.60			0.00	0.00
Africa													
Algeria	0.08	0.08	0.08	1.31	1.31	1.31	0.11	0.11	0.11			0.00	0.00
Morocco	0.02	0.02	0.01	0.33	0.40	0.31	0.01	0.01	0.00			0.00	-33.33
South Africa	0.04	0.03	0.03	1.64	1.11	1.50	0.06	0.03	0.05			0.02	50.00
Other Europe													
United Kingdom	0.20	0.17	0.17	5.62	5.79	5.45	1.12	1.01	0.90			-0.11	-10.63
Norway	0.07	0.07	0.07	4.29	4.29	4.29	0.30	0.30	0.30			0.00	0.00
Serbia	0.02	0.02	0.02	3.11	2.80	3.00	0.06	0.04	0.06			0.02	42.86
Albania	0.02	0.02	0.02	2.20	2.20	2.27	0.03	0.03	0.03			0.00	3.03
Bosnia and Herzegovina	0.01	0.01	0.01	2.82	4.00	3.43	0.03	0.04	0.02			-0.02	-45.45
Turkey	0.11	0.11	0.11	2.38	2.38	2.38	0.25	0.25	0.25			0.00	0.00
Mexico	0.05	0.05	0.05	2.02	2.00	2.00	0.09	0.10	0.09			-0.01	-10.00
Others	0.06	0.06	0.06	1.66	1.66	1.68	0.10	0.10	0.09			-0.01	-6.93

World and Selected Countries and Regions

Table 07 Rye Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	4.03	3.66	3.66	3.10	3.31	3.28	12.51	12.11	12.00			-0.12	-0.98
United States	0.12	0.14	0.12	2.09	2.26	2.20	0.25	0.31	0.27			-0.05	-14.74
Total Foreign	3.92	3.53	3.54	3.13	3.35	3.31	12.26	11.80	11.73			-0.07	-0.62
European Union	1.93	1.76	1.83	4.15	4.28	4.23	8.01	7.54	7.75			0.21	2.84
Former Soviet Union - 12													
Russia	0.99	0.88	0.88	1.73	2.27	2.17	1.72	2.00	1.90			-0.10	-5.00
Belarus	0.33	0.30	0.31	2.46	2.50	2.52	0.80	0.75	0.78			0.03	4.00
Ukraine	0.18	0.10	0.08	3.43	2.85	2.88	0.60	0.29	0.23			-0.06	-19.30
Kazakhstan	0.04	0.03	0.03	0.91	1.76	1.33	0.04	0.06	0.04			-0.02	-33.33
Turkey	0.12	0.11	0.11	2.87	2.91	2.91	0.33	0.32	0.32			0.00	0.00
Canada	0.12	0.15	0.12	3.21	3.42	3.26	0.37	0.52	0.38			-0.15	-27.88
South America													
Chile	0.00	0.00	0.00	5.00	5.00	0.00	0.01	0.01	0.00			-0.01	-100.00
Argentina	0.12	0.09	0.09	1.88	1.84	1.83	0.23	0.16	0.17			0.01	3.13
Other Europe													
Bosnia and Herzegovina	0.00	0.00	0.00	3.00	3.00	3.00	0.01	0.01	0.01			0.00	0.00
Switzerland	0.00	0.00	0.00	5.50	5.50	5.50	0.01	0.01	0.01			0.00	0.00
Serbia	0.01	0.01	0.01	3.80	3.00	3.33	0.02	0.02	0.02			0.00	11.11
Australia	0.05	0.05	0.05	0.71	0.71	0.71	0.03	0.03	0.03			0.00	0.00
Others	0.04	0.04	0.04	2.18	2.18	2.20	0.10	0.10	0.10			0.00	1.04

World and Selected Countries and Regions

Table 08 Sorghum Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	40.75	40.30	41.45	1.53	1.42	1.50	62.28	57.34	62.18			4.84	8.44
United States	2.63	1.85	2.10	4.33	2.58	4.35	11.38	4.77	9.14			4.37	91.70
Total Foreign	38.12	38.45	39.35	1.34	1.37	1.35	50.91	52.57	53.04			0.47	0.88
Africa													
Nigeria	5.70	5.70	5.70	1.18	1.18	1.18	6.73	6.74	6.70			-0.04	-0.62
Ethiopia	1.65	1.66	1.66	2.70	2.53	2.65	4.45	4.20	4.40			0.20	4.76
Sudan	6.92	7.00	7.50	0.51	0.75	0.67	3.53	5.25	5.00			-0.25	-4.73
Burkina Faso	1.90	1.90	1.90	0.87	1.06	1.00	1.64	2.01	1.90			-0.11	-5.66
Mali	1.55	1.50	1.50	0.81	1.05	1.00	1.25	1.58	1.50			-0.08	-5.18
Niger	3.52	3.70	3.70	0.34	0.32	0.51	1.21	1.20	1.90			0.70	58.33
Cameroon	0.74	0.74	0.74	1.62	1.62	1.62	1.20	1.20	1.20			0.00	0.00
Tanzania	1.04	1.00	1.00	1.04	1.00	1.00	1.08	1.00	1.00			0.00	0.00
Egypt	0.15	0.15	0.15	5.00	5.00	5.00	0.75	0.75	0.75			0.00	0.00
Uganda	0.25	0.25	0.25	1.32	0.90	0.90	0.33	0.23	0.23			0.00	0.00
Ghana	0.31	0.31	0.31	1.05	1.49	1.13	0.32	0.46	0.35			-0.11	-24.41
Mozambique	0.25	0.15	0.25	0.64	1.04	0.64	0.16	0.15	0.16			0.01	4.58
South Africa	0.04	0.04	0.04	2.78	3.29	3.75	0.10	0.12	0.15			0.04	30.43
Mexico	1.40	1.42	1.42	3.47	3.42	3.38	4.84	4.85	4.80			-0.05	-1.03
South America													
Argentina	0.93	0.85	0.80	3.68	4.00	4.13	3.40	3.40	3.30			-0.10	-2.94
Brazil	0.95	1.07	1.23	3.20	2.72	2.93	3.04	2.92	3.60			0.68	23.29
South Asia													
India	3.80	3.75	4.10	1.09	1.09	1.07	4.15	4.10	4.40			0.30	7.32
Pakistan	0.08	0.22	0.22	0.83	0.63	0.63	0.06	0.14	0.14			0.00	0.00
China	0.63	0.63	0.63	4.76	4.76	4.76	3.00	3.00	3.00			0.00	0.00
Australia	0.62	0.70	0.60	4.26	3.57	3.00	2.65	2.50	1.80			-0.70	-28.00
European Union	0.15	0.13	0.15	5.41	4.27	5.00	0.80	0.55	0.75			0.20	36.12
Others	5.57	5.60	5.51	1.12	1.11	1.09	6.22	6.22	6.02			-0.21	-3.33

World and Selected Countries and Regions

Table 09 Rice Area, Yield, and Production

World and Selected Countries and Regions

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	165.47	164.55	166.38	4.64	4.61	4.67	513.87	508.41	520.52			12.11	2.38
United States	1.01	0.88	1.03	8.64	8.28	8.50	6.08	5.09	6.12			1.03	20.17
Total Foreign	164.46	163.67	165.35	4.61	4.60	4.65	507.78	503.32	514.41			11.08	2.20
East Asia													
China	29.92	29.45	29.85	7.11	7.08	7.13	148.99	145.95	149.00			3.05	2.09
Japan	1.52	1.50	1.48	6.90	6.86	6.91	7.64	7.48	7.45			-0.03	-0.40
Korea, South	0.73	0.73	0.70	7.12	6.88	6.77	3.88	3.76	3.57			-0.19	-5.13
Korea, North	0.50	0.50	0.50	4.18	4.18	4.18	1.36	1.36	1.36			0.00	0.00
South Asia													
India	46.28	47.00	47.00	4.20	4.21	4.25	129.47	132.00	133.00			1.00	0.76
Bangladesh	11.62	11.60	11.85	4.63	4.70	4.68	35.85	36.35	37.00			0.65	1.79
Pakistan	3.54	3.00	3.50	3.95	2.75	3.86	9.32	5.50	9.00			3.50	63.64
Nepal	1.48	1.45	1.45	3.47	3.79	3.79	3.42	3.65	3.65			0.00	0.00
Sri Lanka	1.13	1.09	1.10	3.56	3.76	4.09	2.73	2.78	3.06			0.28	9.95
Southeast Asia													
Indonesia	11.60	11.55	11.60	4.67	4.64	4.68	34.40	34.00	34.45			0.45	1.32
Vietnam	7.19	7.17	7.16	5.96	6.03	6.03	26.77	27.00	27.00			0.00	0.00
Thailand	10.70	10.85	10.90	2.81	2.82	2.85	19.88	20.20	20.50			0.30	1.49
Burma	7.00	6.80	7.00	2.77	2.71	2.79	12.40	11.80	12.50			0.70	5.93
Philippines	4.80	4.85	4.80	4.15	4.12	4.17	12.54	12.60	12.60			0.00	0.00
Cambodia	3.27	3.31	3.37	2.89	2.94	3.03	5.77	5.93	6.22			0.29	4.87
Laos	0.94	0.95	0.96	3.28	3.26	3.26	1.95	1.95	1.96			0.01	0.51
Malaysia	0.65	0.66	0.66	3.97	3.99	4.08	1.68	1.70	1.75			0.05	2.94
South America													
Brazil	1.62	1.47	1.40	6.67	6.80	7.14	7.34	6.80	6.80			0.00	0.00
Peru	0.42	0.42	0.43	8.37	8.55	8.52	2.43	2.48	2.50			0.02	0.64
Africa													
Egypt	0.50	0.60	0.63	8.41	8.70	8.70	2.90	3.60	3.78			0.18	5.00
Madagascar	1.60	1.60	1.60	2.74	2.75	2.75	2.81	2.82	2.82			0.00	0.00
Nigeria	3.65	3.50	3.50	2.29	2.43	2.37	5.26	5.36	5.23			-0.13	-2.35
European Union	0.40	0.33	0.35	6.64	6.32	6.51	1.73	1.34	1.46			0.12	9.28
Iran	0.56	0.57	0.57	5.14	5.32	5.26	1.90	2.00	1.98			-0.02	-1.00
Others	12.84	12.73	13.00	2.99	2.97	3.01	25.37	24.91	25.76			0.85	3.42

Yield is on a rough basis, before the milling process. Production is on a milled basis, after the milling process.

Table 10 Total Oilseed Area, Yield, and Production

World and Selected Countries and Regions

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World Total	--	--	--	--	--	--	610.63	627.44	671.23			43.79	6.98
Total Foreign	--	--	--	--	--	--	479.28	501.52	538.38			36.86	7.35
Oilseed, Copra	--	--	--	--	--	--	6.07	6.03	6.05			0.02	0.36
Oilseed, Palm Kernel	--	--	--	--	--	--	19.13	20.12	20.50			0.37	1.85
Major OilSeeds	260.57	264.54	270.53	2.25	2.27	2.38	585.43	601.29	644.68			43.39	7.22
United States	41.06	39.99	40.63	3.20	3.15	3.27	131.35	125.93	132.85			6.92	5.50
Foreign Oilseeds	219.50	224.55	229.90	2.07	2.12	2.23	454.08	475.36	511.83			36.47	7.67
South America	68.95	70.17	73.73	2.86	2.96	3.25	197.08	207.58	239.61			32.02	15.43
Brazil	43.46	45.59	47.51	3.11	3.52	3.54	135.33	160.27	168.35			8.08	5.04
Argentina	18.77	18.00	19.16	2.65	1.82	2.80	49.67	32.81	53.74			20.92	63.77
Paraguay	3.51	3.56	3.65	1.23	2.52	2.78	4.31	8.97	10.14			1.18	13.10
Bolivia	1.69	1.57	1.63	2.25	2.10	2.13	3.80	3.30	3.48			0.18	5.37
Uruguay	1.38	1.31	1.64	2.63	1.44	2.15	3.62	1.88	3.53			1.65	87.77
China	24.10	26.19	26.53	2.59	2.59	2.55	62.32	67.96	67.68			-0.28	-0.42
South Asia	41.80	42.83	43.21	1.11	1.03	1.06	46.59	44.02	45.66			1.64	3.73
India	38.48	39.48	39.87	1.10	1.02	1.04	42.19	40.42	41.34			0.92	2.28
Pakistan	2.59	2.43	2.42	1.31	0.96	1.28	3.38	2.34	3.09			0.74	31.70
European Union	11.06	12.51	12.66	2.80	2.54	2.81	30.98	31.79	35.58			3.79	11.93
United Kingdom	0.31	0.36	0.41	3.20	3.74	3.50	0.98	1.36	1.44			0.07	5.44
Former Soviet Union - 12	27.74	26.97	28.02	1.89	1.87	1.82	52.46	50.34	50.99			0.65	1.30
Russia	14.23	14.74	15.00	1.62	1.78	1.74	23.11	26.25	26.10			-0.15	-0.57
Ukraine	9.58	8.10	8.85	2.54	2.32	2.21	24.32	18.80	19.55			0.75	3.99
Uzbekistan	1.08	1.09	1.05	1.11	1.27	1.21	1.20	1.38	1.26			-0.12	-8.54
Canada	11.06	10.76	11.04	1.81	2.38	2.44	20.05	25.63	26.89			1.26	4.91
Africa	24.35	23.77	24.02	0.97	1.05	1.05	23.71	24.88	25.34			0.46	1.83
Nigeria	4.97	4.87	4.92	1.11	1.17	1.16	5.50	5.68	5.70			0.02	0.28
South Africa	1.66	1.76	1.85	1.91	2.08	2.04	3.17	3.65	3.78			0.13	3.48
Tanzania	1.24	1.35	1.35	0.98	0.93	0.93	1.21	1.25	1.25			0.00	0.00
Southeast Asia	3.12	3.08	3.05	1.36	1.36	1.39	4.23	4.18	4.23			0.05	1.12
Burma	1.95	1.94	1.95	1.16	1.18	1.24	2.25	2.28	2.41			0.13	5.47
Indonesia	0.90	0.87	0.84	1.55	1.52	1.49	1.39	1.32	1.26			-0.07	-4.92
Australia	3.94	4.65	4.21	2.20	2.16	1.69	8.68	10.05	7.13			-2.92	-29.05
Turkey	1.32	1.48	1.24	2.55	2.69	2.68	3.37	3.98	3.34			-0.64	-16.13
Others	1.76	1.78	1.79	2.06	2.02	2.22	3.63	3.60	3.97			0.37	10.27

World Total and Total Foreign: (Major Oilseeds plus copra and palm kernel) Major Oilseeds: (soybeans, sunflowerseeds, peanuts(inshell), cottonseed and rapeseed)

Table 11 Soybean Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	130.99	134.55	139.78	2.75	2.75	2.94	359.85	370.42	410.59			40.16	10.84
United States	34.93	34.94	35.09	3.48	3.33	3.50	121.53	116.38	122.74			6.37	5.47
Total Foreign	96.06	99.61	104.69	2.48	2.55	2.75	238.32	254.04	287.84			33.80	13.30
South America													
Brazil	41.60	43.70	45.60	3.14	3.55	3.57	130.50	155.00	163.00			8.00	5.16
Argentina	15.90	15.00	16.40	2.76	1.80	2.93	43.90	27.00	48.00			21.00	77.78
Paraguay	3.42	3.45	3.55	1.22	2.55	2.82	4.18	8.80	10.00			1.20	13.64
Bolivia	1.55	1.43	1.50	2.32	2.17	2.20	3.60	3.10	3.30			0.20	6.45
Uruguay	1.16	0.90	1.28	2.80	1.33	2.27	3.23	1.20	2.90			1.70	141.67
East Asia													
China	8.42	10.24	10.45	1.95	1.98	1.96	16.40	20.28	20.50			0.22	1.08
Korea, South	0.05	0.06	0.07	2.06	2.03	1.93	0.11	0.13	0.13			0.00	0.77
Korea, North	0.17	0.16	0.16	1.15	1.15	1.15	0.19	0.18	0.18			0.00	0.00
Japan	0.15	0.15	0.16	1.63	1.58	1.63	0.24	0.24	0.25			0.02	6.30
India	12.15	12.00	12.50	0.98	1.00	0.96	11.89	12.00	12.00			0.00	0.00
Canada	2.08	2.12	2.20	2.99	3.09	2.95	6.22	6.54	6.50			-0.04	-0.66
Former Soviet Union - 12													
Russia	2.99	3.36	3.40	1.59	1.79	1.74	4.76	6.00	5.90			-0.10	-1.60
Ukraine	1.44	1.70	2.00	2.64	2.41	2.30	3.80	4.10	4.60			0.50	12.20
European Union	0.98	1.08	1.10	2.83	2.26	2.82	2.77	2.44	3.10			0.66	27.10
Southeast Asia													
Indonesia	0.35	0.33	0.32	1.21	1.18	1.17	0.43	0.39	0.38			-0.02	-3.85
Vietnam	0.03	0.03	0.03	1.61	1.60	1.61	0.05	0.05	0.05			0.00	-6.25
Thailand	0.03	0.03	0.03	1.63	1.63	1.63	0.05	0.05	0.05			0.00	0.00
Burma	0.13	0.13	0.12	1.04	1.04	1.04	0.14	0.13	0.13			-0.01	-3.85
Serbia	0.24	0.24	0.24	2.28	1.70	3.09	0.54	0.40	0.73			0.33	81.70
Mexico	0.18	0.12	0.15	1.57	1.52	1.57	0.29	0.18	0.24			0.06	34.29
Africa													
South Africa	0.93	1.15	1.20	2.41	2.40	2.33	2.23	2.76	2.80			0.05	1.63
Nigeria	1.20	1.20	1.20	0.93	1.04	1.04	1.12	1.25	1.25			0.00	0.00
Zambia	0.30	0.38	0.38	1.35	1.27	1.27	0.41	0.48	0.48			0.00	0.00
Uganda	0.05	0.05	0.05	0.60	0.60	0.60	0.03	0.03	0.03			0.00	0.00
Middle East													
Iran	0.07	0.08	0.07	2.29	2.27	2.36	0.16	0.17	0.17			-0.01	-2.94
Turkey	0.03	0.04	0.03	3.91	4.14	4.12	0.13	0.15	0.14			-0.01	-3.45
Others	0.47	0.51	0.52	2.04	2.00	2.04	0.96	1.02	1.06			0.04	4.22

World and Selected Countries and Regions

Table 12 Cottonseed Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	31.93	31.30	30.99	1.30	1.35	1.36	41.65	42.40	42.28			-0.12	-0.29
United States	4.16	2.96	3.53	1.16	1.35	1.24	4.83	4.01	4.39			0.38	9.51
Total Foreign	27.78	28.35	27.46	1.33	1.35	1.38	36.82	38.40	37.89			-0.50	-1.31
South Asia													
India	12.37	13.00	12.40	0.84	0.80	0.87	10.36	10.40	10.83			0.43	4.09
Pakistan	2.00	1.80	1.80	1.30	0.94	1.28	2.60	1.69	2.30			0.61	35.94
China	3.10	3.10	2.95	3.39	3.88	3.65	10.50	12.03	10.78			-1.25	-10.42
Former Soviet Union - 12													
Uzbekistan	1.06	1.07	1.03	1.07	1.24	1.18	1.14	1.33	1.21			-0.12	-8.86
Turkmenistan	0.55	0.55	0.55	0.64	0.64	0.64	0.35	0.35	0.35			0.00	0.00
Tajikistan	0.17	0.17	0.17	1.09	1.11	1.15	0.19	0.19	0.20			0.01	3.72
Kazakhstan	0.11	0.13	0.12	0.84	1.05	0.94	0.09	0.13	0.11			-0.02	-13.74
South America													
Brazil	1.60	1.63	1.63	2.43	2.65	2.70	3.89	4.32	4.40			0.08	1.92
Argentina	0.48	0.40	0.41	0.68	1.06	1.17	0.33	0.43	0.48			0.06	13.18
Middle East													
Turkey	0.45	0.56	0.43	2.76	2.88	2.69	1.24	1.60	1.14			-0.46	-28.56
Syria	0.03	0.03	0.03	2.20	2.20	2.20	0.06	0.06	0.06			0.00	0.00
Iran	0.10	0.10	0.10	1.35	1.35	1.35	0.14	0.14	0.14			0.00	0.00
Australia	0.64	0.68	0.65	2.77	2.42	2.68	1.76	1.65	1.74			0.09	5.45
European Union	0.32	0.31	0.29	1.66	1.70	1.64	0.53	0.53	0.48			-0.05	-8.76
Africa													
Burkina Faso	0.60	0.62	0.61	0.45	0.40	0.42	0.27	0.25	0.26			0.01	2.82
Mali	0.72	0.69	0.70	0.56	0.41	0.51	0.40	0.28	0.35			0.07	25.09
Cameroon	0.23	0.23	0.23	1.39	1.41	1.30	0.32	0.33	0.30			-0.03	-7.69
Cote d'Ivoire	0.47	0.41	0.39	0.60	0.32	0.52	0.28	0.13	0.20			0.07	52.63
Benin	0.64	0.58	0.64	0.73	0.75	0.72	0.47	0.43	0.46			0.03	7.67
Tanzania	0.24	0.35	0.35	0.46	0.43	0.43	0.11	0.15	0.15			0.00	0.00
Egypt	0.09	0.14	0.15	1.00	0.92	0.92	0.09	0.13	0.14			0.01	6.98
Nigeria	0.27	0.27	0.27	0.56	0.56	0.56	0.15	0.15	0.15			0.00	0.00
Uganda	0.10	0.10	0.10	1.40	1.49	1.49	0.14	0.15	0.15			0.00	0.00
Zimbabwe	0.25	0.24	0.24	0.33	0.34	0.34	0.08	0.08	0.08			0.00	0.00
Sudan	0.20	0.20	0.20	1.41	1.53	1.53	0.28	0.31	0.31			0.00	0.00
Mexico	0.15	0.20	0.17	2.71	2.71	2.56	0.42	0.54	0.44			-0.11	-19.44
Burma	0.16	0.15	0.16	0.81	0.76	1.25	0.13	0.11	0.19			0.08	70.18
Others	0.70	0.65	0.71	0.74	0.80	0.72	0.52	0.52	0.51			-0.02	-3.26

World and Selected Countries and Regions

Table 13 Peanut Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	30.64	29.26	29.64	1.69	1.69	1.70	51.85	49.53	50.44			0.91	1.83
United States	0.62	0.56	0.60	4.63	4.50	4.74	2.89	2.53	2.85			0.32	12.79
Total Foreign	30.01	28.69	29.04	1.63	1.64	1.64	48.96	47.00	47.59			0.58	1.24
China	4.81	4.80	4.82	3.81	3.81	3.80	18.31	18.30	18.30			0.00	0.00
Africa													
Nigeria	3.50	3.40	3.45	1.21	1.26	1.25	4.23	4.28	4.30			0.02	0.37
Sudan	3.94	3.00	3.00	0.60	0.83	0.83	2.36	2.50	2.50			0.00	0.00
Senegal	1.21	1.23	1.23	1.38	1.23	1.40	1.68	1.50	1.72			0.21	14.18
Cameroon	0.43	0.43	0.43	1.40	1.40	1.40	0.60	0.60	0.60			0.00	0.00
Ghana	0.34	0.37	0.37	1.48	1.65	1.62	0.50	0.61	0.60			-0.01	-1.80
Chad	0.75	0.76	0.76	1.06	1.10	1.09	0.80	0.83	0.83			0.00	0.12
Malawi	0.40	0.40	0.40	0.88	0.88	0.88	0.35	0.35	0.35			0.00	0.00
Congo (Kinshasa)	0.52	0.53	0.53	0.92	0.91	0.91	0.48	0.48	0.48			0.00	0.00
Niger	0.92	0.97	0.92	0.56	0.69	0.65	0.52	0.67	0.60			-0.07	-10.58
Mali	0.44	0.43	0.43	0.78	1.04	1.00	0.35	0.44	0.43			-0.02	-4.06
Uganda	0.33	0.35	0.35	0.59	0.57	0.57	0.19	0.20	0.20			0.00	0.00
Burkina Faso	0.58	0.63	0.64	0.83	0.89	0.90	0.48	0.56	0.58			0.02	2.86
Guinea	0.79	0.90	0.90	1.15	1.14	1.11	0.91	1.03	1.00			-0.03	-2.44
Egypt	0.06	0.06	0.06	3.20	3.20	3.20	0.21	0.21	0.21			0.00	0.00
Central African Republic	0.13	0.13	0.13	1.15	1.15	1.15	0.15	0.15	0.15			0.00	0.00
South Africa	0.04	0.03	0.04	1.51	2.17	2.00	0.07	0.07	0.07			0.01	7.69
Mozambique	0.38	0.38	0.38	0.34	0.34	0.34	0.13	0.13	0.13			0.00	0.00
Cote d'Ivoire	0.17	0.17	0.17	1.42	1.47	1.45	0.23	0.24	0.24			0.00	-1.23
Benin	0.17	0.17	0.18	1.05	0.96	0.97	0.18	0.16	0.18			0.01	6.71
South Asia													
India	5.71	5.20	5.50	1.52	1.21	1.20	8.70	6.30	6.60			0.30	4.76
Pakistan	0.15	0.13	0.13	0.94	0.88	0.88	0.15	0.12	0.12			0.00	0.00
Southeast Asia													
Indonesia	0.55	0.54	0.52	1.76	1.72	1.69	0.96	0.93	0.88			-0.05	-5.38
Burma	1.06	1.07	1.07	1.51	1.55	1.59	1.60	1.65	1.70			0.05	3.03
Vietnam	0.16	0.16	0.15	2.58	2.58	2.60	0.41	0.40	0.39			-0.01	-2.50
Thailand	0.02	0.02	0.02	1.67	1.67	1.67	0.04	0.04	0.04			0.00	0.00
South America													
Argentina	0.41	0.38	0.38	3.29	3.03	3.47	1.34	1.15	1.32			0.17	14.78
Brazil	0.22	0.22	0.24	4.09	4.05	3.79	0.90	0.89	0.89			0.00	0.00
Mexico	0.06	0.05	0.05	1.63	1.87	1.74	0.10	0.10	0.09			-0.01	-8.91
Others	1.77	1.80	1.80	1.17	1.17	1.17	2.07	2.12	2.12			0.00	-0.09

World and Selected Countries and Regions

Table 14 Sunflowerseed Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	28.72	27.80	28.32	1.99	1.86	1.92	57.20	51.64	54.32			2.68	5.19
United States	0.50	0.65	0.53	1.71	1.96	1.98	0.86	1.28	1.04			-0.24	-18.57
Total Foreign	28.21	27.15	27.80	2.00	1.86	1.92	56.34	50.37	53.28			2.92	5.79
Former Soviet Union - 12													
Russia	9.61	9.11	9.50	1.62	1.78	1.74	15.57	16.25	16.50			0.25	1.51
Ukraine	7.10	5.20	5.70	2.46	2.15	2.07	17.50	11.20	11.80			0.60	5.36
Kazakhstan	0.94	1.09	1.15	1.10	1.20	1.22	1.03	1.30	1.40			0.10	7.36
European Union	4.37	5.18	5.20	2.35	1.79	2.21	10.29	9.29	11.50			2.21	23.83
South America													
Argentina	1.96	2.20	1.95	2.07	1.91	2.00	4.05	4.20	3.90			-0.30	-7.14
Uruguay	0.07	0.07	0.07	1.62	1.64	1.62	0.11	0.12	0.11			-0.01	-8.70
Bolivia	0.14	0.14	0.13	1.39	1.40	1.35	0.20	0.20	0.18			-0.02	-11.62
Brazil	0.04	0.04	0.04	1.03	1.56	1.55	0.04	0.06	0.07			0.00	1.56
Paraguay	0.03	0.03	0.03	1.55	1.56	1.50	0.05	0.05	0.05			-0.01	-10.00
China	0.79	0.95	0.96	3.06	2.79	2.81	2.40	2.65	2.70			0.05	1.89
South Asia													
India	0.27	0.28	0.27	0.52	0.78	0.78	0.14	0.22	0.21			-0.01	-2.33
Pakistan	0.10	0.11	0.10	1.38	1.35	1.35	0.14	0.15	0.14			-0.01	-8.78
Middle East													
Turkey	0.76	0.79	0.70	2.30	2.41	2.50	1.75	1.90	1.75			-0.15	-7.89
Iran	0.04	0.04	0.04	1.00	1.02	1.05	0.04	0.04	0.04			0.00	-2.27
Israel	0.00	0.00	0.00	2.00	5.00	4.00	0.00	0.01	0.00			0.00	-20.00
Africa													
Egypt	0.01	0.02	0.02	2.38	2.53	2.50	0.02	0.04	0.05			0.01	31.58
Morocco	0.02	0.02	0.02	1.25	1.11	1.27	0.03	0.02	0.03			0.01	40.00
South Africa	0.67	0.56	0.60	1.26	1.43	1.46	0.85	0.80	0.88			0.08	9.38
Burma	0.60	0.60	0.60	0.65	0.65	0.65	0.39	0.39	0.39			0.00	0.00
Canada	0.04	0.04	0.04	2.03	2.21	2.24	0.08	0.08	0.09			0.00	1.19
Australia	0.02	0.03	0.02	1.58	1.48	1.24	0.03	0.04	0.03			-0.01	-29.73
Others	0.63	0.66	0.66	2.59	2.07	2.28	1.64	1.36	1.50			0.13	9.68

World and Selected Countries and Regions

Table 15 Rapeseed Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Metric tons per hectare)			Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MMT	Percent	MMT	Percent
World	38.29	41.64	41.81	1.96	2.10	2.08	74.89	87.30	87.06			-0.23	-0.27
United States	0.85	0.88	0.89	1.46	1.98	2.06	1.24	1.74	1.83			0.09	5.22
Total Foreign	37.44	40.76	40.92	1.97	2.10	2.08	73.65	85.55	85.23			-0.33	-0.38
European Union	5.39	5.94	6.07	3.23	3.29	3.38	17.39	19.54	20.50			0.96	4.93
United Kingdom	0.31	0.36	0.41	3.20	3.74	3.50	0.98	1.36	1.44			0.07	5.44
Switzerland	0.02	0.02	0.02	3.14	3.14	3.14	0.07	0.07	0.07			0.00	0.00
Canada	8.95	8.60	8.80	1.54	2.21	2.31	13.75	19.00	20.30			1.30	6.84
China	6.99	7.10	7.35	2.10	2.07	2.10	14.71	14.70	15.40			0.70	4.76
South Asia													
India	7.99	9.00	9.20	1.39	1.28	1.27	11.10	11.50	11.70			0.20	1.74
Pakistan	0.33	0.39	0.39	1.49	1.00	1.38	0.49	0.39	0.54			0.15	38.46
Bangladesh	0.61	0.81	0.80	1.35	1.30	1.29	0.82	1.05	1.03			-0.02	-1.90
Former Soviet Union - 12													
Russia	1.62	2.27	2.10	1.71	1.76	1.76	2.78	4.00	3.70			-0.30	-7.50
Ukraine	1.04	1.20	1.15	2.91	2.92	2.74	3.02	3.50	3.15			-0.35	-10.00
Belarus	0.32	0.33	0.34	1.59	1.69	1.67	0.50	0.55	0.56			0.01	1.82
Kazakhstan	0.12	0.13	0.13	1.24	1.48	1.38	0.15	0.19	0.18			-0.01	-4.76
Australia	3.25	3.90	3.50	2.10	2.13	1.51	6.82	8.30	5.30			-3.00	-36.14
South America													
Chile	0.04	0.03	0.04	3.86	3.79	3.82	0.14	0.13	0.15			0.02	16.00
Paraguay	0.04	0.05	0.04	1.45	1.51	1.50	0.06	0.07	0.06			-0.01	-7.35
Ethiopia	0.03	0.03	0.03	1.80	1.80	1.80	0.05	0.05	0.05			0.00	0.00
Others	0.41	0.61	0.56	2.03	1.93	1.98	0.83	1.17	1.11			-0.06	-5.04

World and Selected Countries and Regions

Table 16 Copra, Palm Kernel, and Palm Oil Production

Country / Region	Production (Million metric tons)			Change in Production			
		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	MMT	Percent	MMT	Percent
Oilseed, Copra							
Philippines	2.60	2.60	2.70			0.10	3.85
Indonesia	1.68	1.68	1.69			0.01	0.60
India	0.94	0.94	0.94			0.00	0.00
Vietnam	0.29	0.29	0.29			0.00	0.00
Papua New Guinea	0.11	0.11	0.11			0.00	0.00
Thailand	0.09	0.09	0.09			0.00	0.00
Sri Lanka	0.11	0.07	0.07			0.00	0.00
Mexico	0.05	0.05	0.05			0.00	0.00
Solomon Islands	0.03	0.03				-0.03	0.00
Cote d'Ivoire	0.03	0.03	0.03			0.00	0.00
World	6.07	6.03	6.05			0.02	0.33
Oilseed, Palm Kernel							
Indonesia	11.20	11.80	12.00			0.20	1.69
Malaysia	4.45	4.75	4.90			0.15	3.16
Nigeria	0.90	0.90	0.90			0.00	0.00
Thailand	0.83	0.86	0.86			0.00	0.00
Colombia	0.31	0.32	0.34			0.02	6.25
Guatemala	0.18	0.18	0.18			0.00	0.00
Papua New Guinea	0.17	0.17	0.18			0.01	5.88
Honduras	0.16	0.16	0.16			0.00	0.00
Brazil	0.15	0.15	0.16			0.01	6.67
Cameroon	0.15	0.15	0.15			0.00	0.00
World	19.13	20.12	20.50			0.38	1.89
Oil, Palm							
Indonesia	42.00	46.00	47.00			1.00	2.17
Malaysia	18.15	19.00	19.30			0.30	1.58
Thailand	3.38	3.42	3.45			0.03	0.88
Colombia	1.75	1.77	1.80			0.03	1.69
Nigeria	1.40	1.40	1.40			0.00	0.00
Guatemala	0.88	0.91	0.92			0.01	1.10
Papua New Guinea	0.72	0.78	0.80			0.02	2.56
Cote d'Ivoire	0.58	0.60	0.60			0.00	0.00
Honduras	0.60	0.60	0.60			0.00	0.00
Brazil	0.55	0.57	0.59			0.01	1.75
World	72.95	78.14	79.56			1.42	1.82

World and Selected Countries and Regions

Table 17 Cotton Area, Yield, and Production

Country / Region	Area (Million hectares)			Yield (Kilograms per hectare)			Production (Million 480 lb. bales)			Change in Production			
		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.		Prel.	2023/24 Proj.	From last month		From last year	
	2021/22	2022/23	May	2021/22	2022/23	May	2021/22	2022/23	May	MBales	Percent	MBales	Percent
World	32.49	31.86	31.54	776	795	799	115.78	116.36	115.69			-0.66	-0.57
United States	4.16	2.96	3.52	918	1,065	958	17.52	14.47	15.50			1.03	7.13
Total Foreign	28.33	28.90	28.02	755	768	779	98.26	101.89	100.19			-1.70	-1.66
South Asia													
India	12.37	13.00	12.40	429	410	448	24.40	24.50	25.50			1.00	4.08
Pakistan	2.00	1.80	1.80	653	472	641	6.00	3.90	5.30			1.40	35.90
China	3.10	3.10	2.95	1,882	2,156	2,030	26.80	30.70	27.50			-3.20	-10.42
South America													
Brazil	1.60	1.63	1.63	1,595	1,736	1,770	11.72	13.00	13.25			0.25	1.92
Argentina	0.48	0.40	0.41	680	626	690	1.50	1.15	1.30			0.15	13.04
Paraguay	0.02	0.04	0.03	527	877	806	0.05	0.14	0.10			-0.04	-29.08
Africa													
Burkina Faso	0.60	0.62	0.61	351	316	330	0.96	0.90	0.93			0.03	2.78
Mali	0.72	0.69	0.70	432	316	389	1.43	1.00	1.25			0.25	25.00
Cote d'Ivoire	0.47	0.41	0.39	486	266	424	1.05	0.50	0.76			0.26	52.00
Benin	0.64	0.58	0.64	483	492	476	1.42	1.30	1.40			0.10	7.69
Egypt	0.09	0.14	0.15	717	661	660	0.28	0.43	0.46			0.03	7.06
Cameroon	0.23	0.23	0.23	606	615	568	0.64	0.65	0.60			-0.05	-7.69
Tanzania	0.24	0.35	0.35	231	218	218	0.26	0.35	0.35			0.00	0.00
Nigeria	0.27	0.27	0.27	282	282	282	0.35	0.35	0.35			0.00	0.00
Zimbabwe	0.25	0.24	0.24	191	195	195	0.22	0.22	0.22			0.00	0.00
Ethiopia	0.08	0.08	0.08	637	637	637	0.24	0.24	0.24			0.00	0.00
Former Soviet Union - 12													
Uzbekistan	1.06	1.07	1.03	596	692	655	2.90	3.40	3.10			-0.30	-8.82
Turkmenistan	0.55	0.55	0.55	356	356	356	0.90	0.90	0.90			0.00	0.00
Tajikistan	0.17	0.17	0.17	608	615	640	0.48	0.48	0.50			0.02	4.17
Kazakhstan	0.11	0.13	0.12	467	584	526	0.24	0.34	0.29			-0.05	-13.43
Middle East													
Turkey	0.45	0.56	0.43	1,839	1,922	1,793	3.80	4.90	3.50			-1.40	-28.57
Syria	0.03	0.03	0.03	1,132	1,132	1,132	0.13	0.13	0.13			0.00	0.00
Iran	0.10	0.10	0.10	871	871	871	0.40	0.40	0.40			0.00	0.00
Australia	0.64	0.68	0.65	2,006	1,751	1,943	5.85	5.50	5.80			0.30	5.45
Mexico	0.15	0.20	0.17	1,725	1,729	1,633	1.22	1.58	1.28			-0.31	-19.30
Burma	0.16	0.15	0.16	660	653	660	0.48	0.45	0.47			0.02	4.44
Others	1.77	1.70	1.74	561	576	541	4.56	4.49	4.33			-0.16	-3.56

World and Selected Countries and Regions

TABLE 18

The table below presents a record of the May projection and the final Estimate. Using world wheat production as an example, the "root mean square error" means that chances are 2 out of 3 that the current forecast will not be above or below the final estimate by more than 3.0 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 5.1 percent. The average difference between the May projection and the final estimate is 16.1 million tons, ranging from 1.7 million to 35.0 million tons. The May projection has been below the estimate 25 times and above 17 times.

RELIABILITY OF PRODUCTION PROJECTIONS 1/

COMMODITY AND REGION	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Average	Smallest	Largest	Years	
						Below final	Above final
	Percent		---Million metric tons---				
WHEAT							
World	3.0	5.1	16.1	1.7	35.0	25	17
U.S.	6.8	11.4	3.0	0.0	9.8	21	21
Foreign	3.2	5.4	14.9	1.6	32.9	24	18
COARSE GRAINS 2/							
World	3.6	6.1	26.6	1.1	103.6	20	22
U.S.	13.6	22.9	21.1	0.9	103.8	22	20
Foreign	2.7	4.5	14.4	0.2	42.8	20	22
RICE (Milled)							
World	2.3	3.9	6.8	0.0	21.8	25	17
U.S.	8.1	13.6	0.4	0.0	1.1	22	20
Foreign	2.4	4.0	6.8	0.4	22.0	25	17
SOYBEANS							
World	NA	NA	13.4	0.4	34.8	7	7
U.S.	8.9	15.0	4.8	0.0	16.1	22	20
Foreign	NA	NA	9.0	0.2	35.6	8	6
COTTON			*---Million 480-lb. bales---*				
World	6.1	10.2	4.3	0.1	16.7	24	18
U.S.	12.0	20.3	1.6	0.1	5.5	20	22
Foreign	6.1	10.2	3.3	0.1	12.2	22	20
UNITED STATES			*-------Million bushels-------*				
CORN	14.4	24.3	756	8	4,010	18	24
SORGHUM	25.0	42.1	85	0	228	21	20
BARLEY	14.8	25.0	26	1	206	16	26
OATS	25.1	42.2	29	1	231	9	33

1/ Marketing years 1981/82 through 2022/23 for grains, soybeans, and cotton. Final for grains, soybeans, and cotton is defined as the first November estimate following the marketing year for 1981/82 through 2021/22, and for 2022/23 the last month's estimate.

2/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain

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