



United States
Department of
Agriculture

Foreign
Agricultural
Service

Circular Series
WAP 9-21
September 2021

World Agricultural Production

Ukraine Corn: Crop Travel Informs Yield Analysis

Kherson Oblast



Irrigated corn
cobs were full
and well-
developed.

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Poltava Oblast



In Poltava in the
spring, conditions
were favorable, but
the summer was
hot and dry, which
caused poor corn
kernel development
in non-irrigated
corn.

Source: FAS Kyiv

Ukraine corn production for marketing year 2021/22 is estimated at 39.0 million metric tons, unchanged from last month but up 29 percent from last year. Yield is estimated at 7.20 tons per hectare, unchanged from last month but 28 percent higher than last year. Harvested area is estimated at 5.4 million hectares, unchanged from last month but up less than 1 percent from last year.

Approved by the World Agricultural Outlook Board

Odessa Oblast



Irrigated corn, throughout the country, typically looked the best. Irrigating corn is becoming more common as summers become hotter and drier.

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Nikolayev Oblast

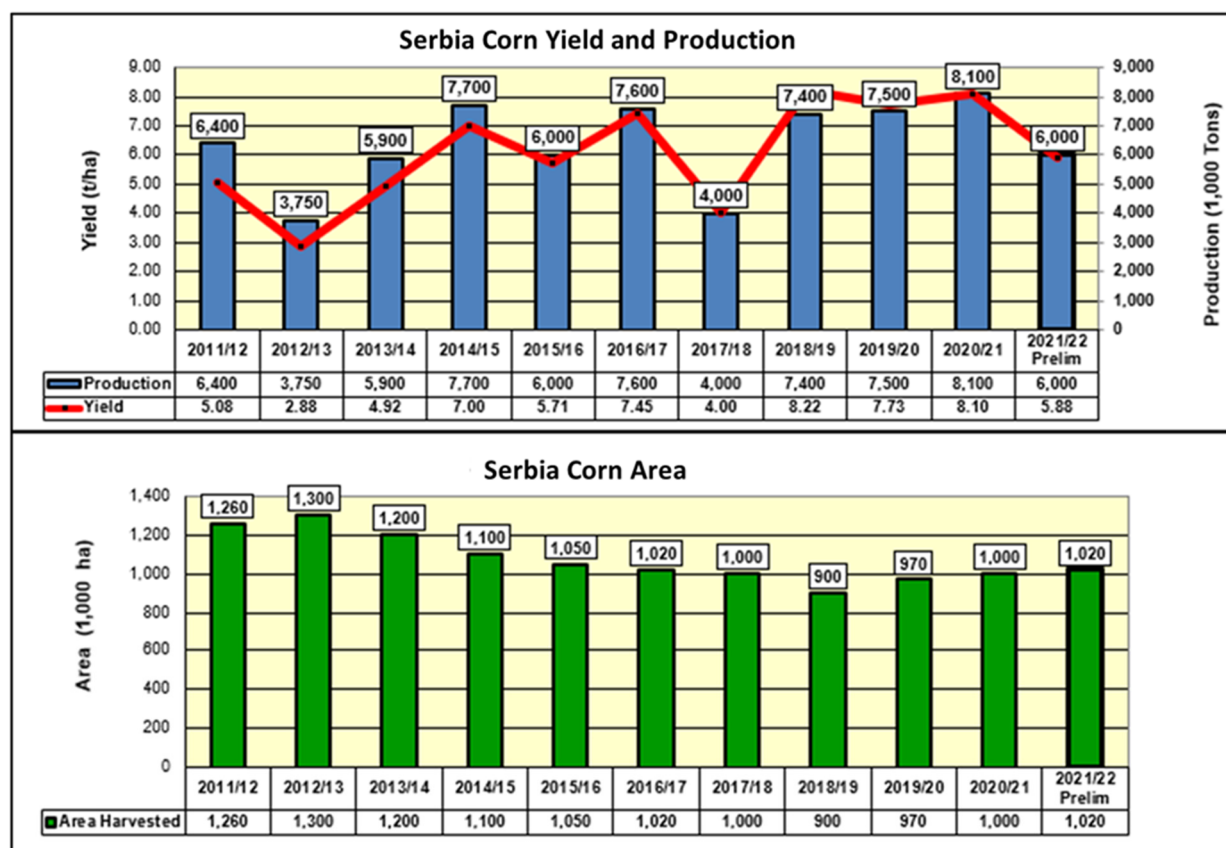


Some corn has been infested with caterpillars, which inhabit the top part of corn ears.

Source: FAS Kyiv

Yield is unchanged month-to-month due to generally favorable August rainfall and indications from remote sensing data such as the satellite-derived Percent of Average Seasonal Greenness (PASG) and the Normalized Difference Vegetation Index (NDVI) highlighting above-average crop conditions in the main Forest Steppe corn growing region. Expectations of yield, however, are tempered chiefly due to concerns over pests, mold, and corn kernel development as seen from crop travel. FAS Kyiv conducted crop travel during the middle of August and noted that crop conditions are variable throughout the country. In discussions with farmers and other contacts, some regions, throughout the summer, received an abundance of moisture and others suffered from a lack of moisture, which led to the various issues listed above. In general, however, quality seeds, irrigation, and access to inputs are expected to offset many of the earlier summer weather issues. Harvest has just begun. USDA crop production estimates for Ukraine include estimated output from Crimea. *(For more information, please contact Katie.McGaughey@usda.gov.)*

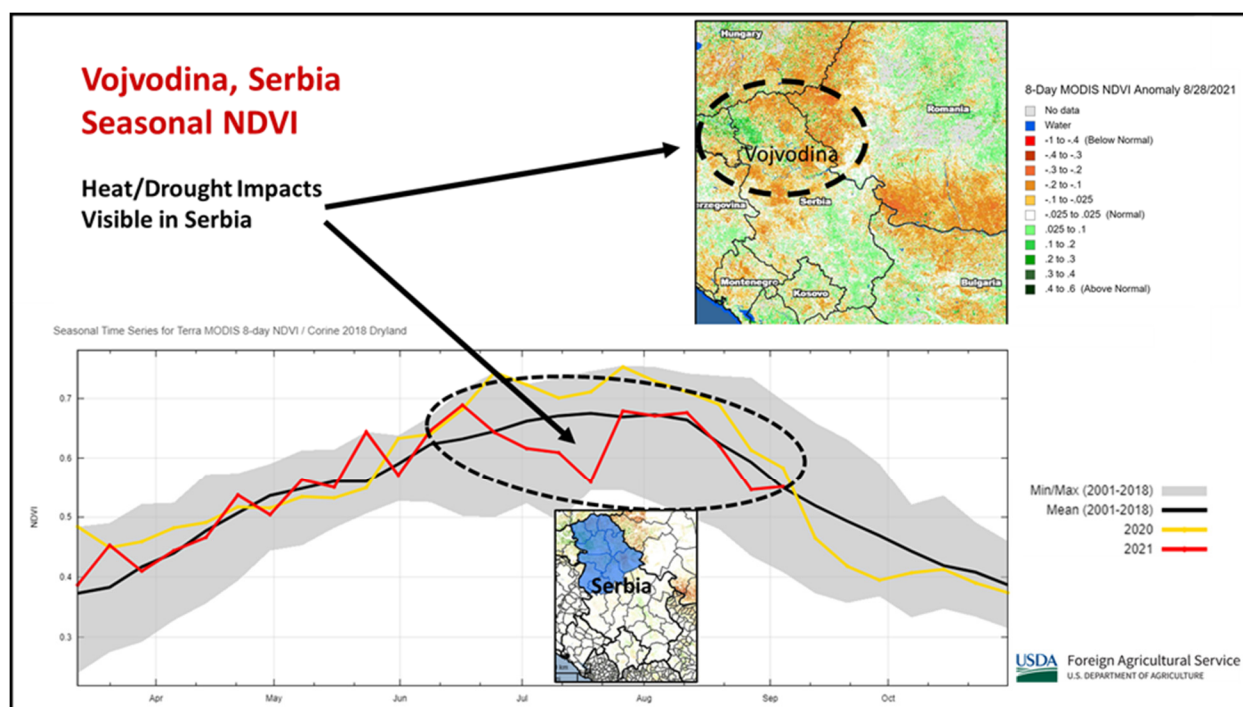
Serbia Corn: Heat and Dryness Reduces Yield Further




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Source: USDA PSD Online

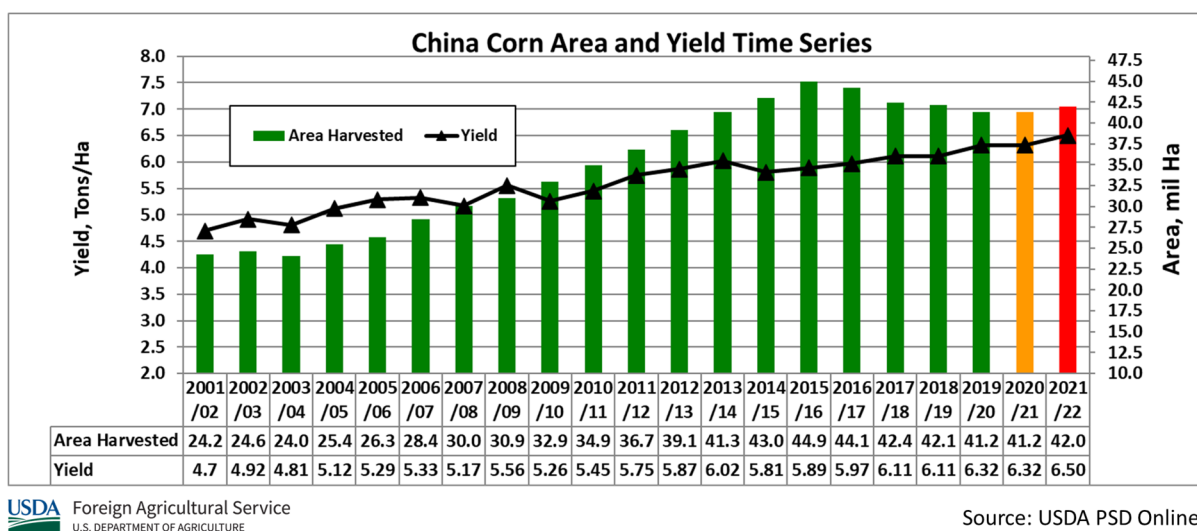
Marketing year (MY) 2021/22 corn production in Serbia is estimated at 6.0 million tons (mmt), down 0.5 mmt or 8 percent from last month, and 26 percent below the revised record of 8.1 mmt achieved last year. Area is estimated to be similar to last season at 1.0 million hectares (ha), a 50,000 ha increase from last month, but 4 percent above the 5-year average. Yield is estimated at 5.88 tons per hectare, down 12 percent from last month, 27 percent below last year, and 17 percent below the 5-year average.



Serbia is a large, non-EU producer of corn. Its primary croplands are located in Vojvodina, north of the capital Belgrade, and near the border with Hungary. Corn was planted about two weeks later than usual in April and May because of a cold and wet spring. Excessive and prolonged temperatures of over 40 degrees Celsius, combined with the lack of rainfall during summer, has negatively affected Serbia's corn crop for the second straight month. Satellite-derived Percent of Average Seasonal Greenness (PASG) and Normalized Difference Vegetation Index (NDVI) data, which depict vegetation vigor, indicate a deteriorating and poor crop. Corn is typically harvested in September and October. The corn reductions this year are especially notable because the country had excellent winter crop conditions which led to a record MY 2021/22 wheat crop. *(For more information, please contact Bryan.Purcell@usda.gov.)*

China Corn: Production Increased Due to Record Yield

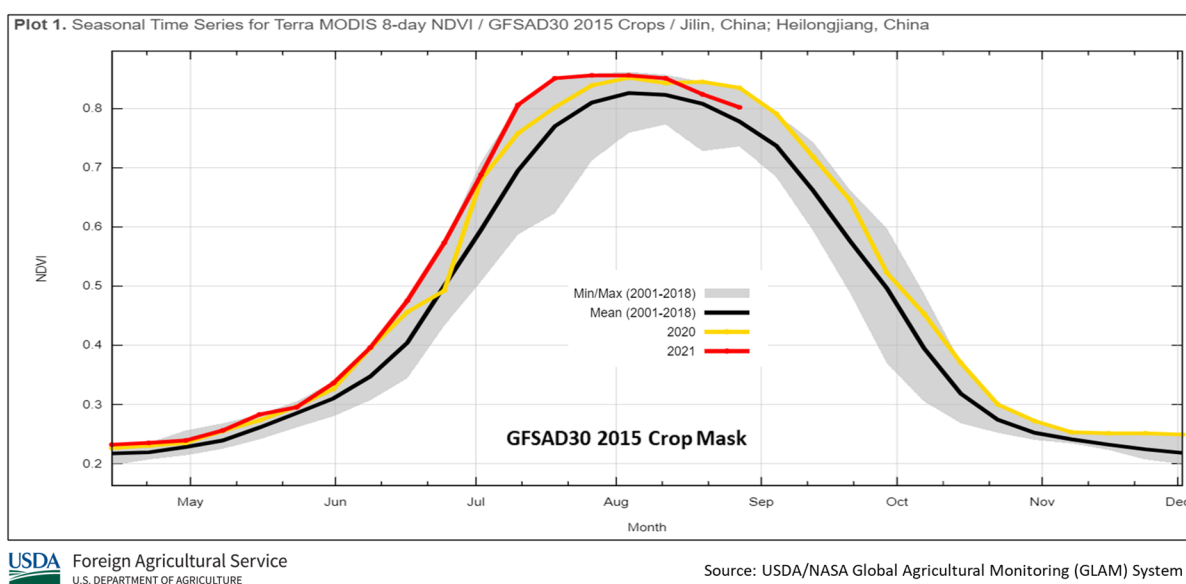
USDA estimates China marketing year (MY) 2021/22 corn production at a record 273.0 million metric tons (mmt), up 5.0 mmt or 2 percent from last month, up 5 percent from last year, and 5 percent above the 5-year average of 260.3 mmt. Yield is estimated at a record 6.5 metric tons per hectare, up 2 percent from last month, 3 percent from last year, and 5 percent above the 5-year average. Harvested area is estimated at 42.0 million hectares (mha), no change from last month, but up approximately 0.7 mha or 2 percent from last year. In recent years there has been marginal increases or stable corn area in the major production provinces of Heilongjiang, Jilin, Shandong, Henan, Inner Mongolia, and Hebei. This has been primarily attributed to changes in agricultural policy.



The major factors shaping USDA's forecast are the favorable growing season conditions and government policies encouraging increased corn production. The MY 2021/22 season has been characterized by favorable growing conditions across the major corn belt, the northeast, and north-central plains. In particular, the Northeast provinces of Heilongjiang, Jilin, Liaoning, and Inner Mongolia, where close to half of the nation's corn and soybeans are produced, experienced beneficial weather for a major part of the growing season. The conditions facilitated rapid planting and crop establishment, boosting corn yield expectations.

In addition to the favorable seasonal conditions, farmers were also encouraged by government policies to reduce the area left fallow and to increase rotation of grain crops. Additionally, the government provision of targeted incentives and subsidies to corn processors and ethanol program initiatives have increased corn area. Previously, government policy aimed to reduce corn area. The policies are expected, in the short run, to contribute to the increase in corn production. Approximately 75 percent of China's corn is used for feed.

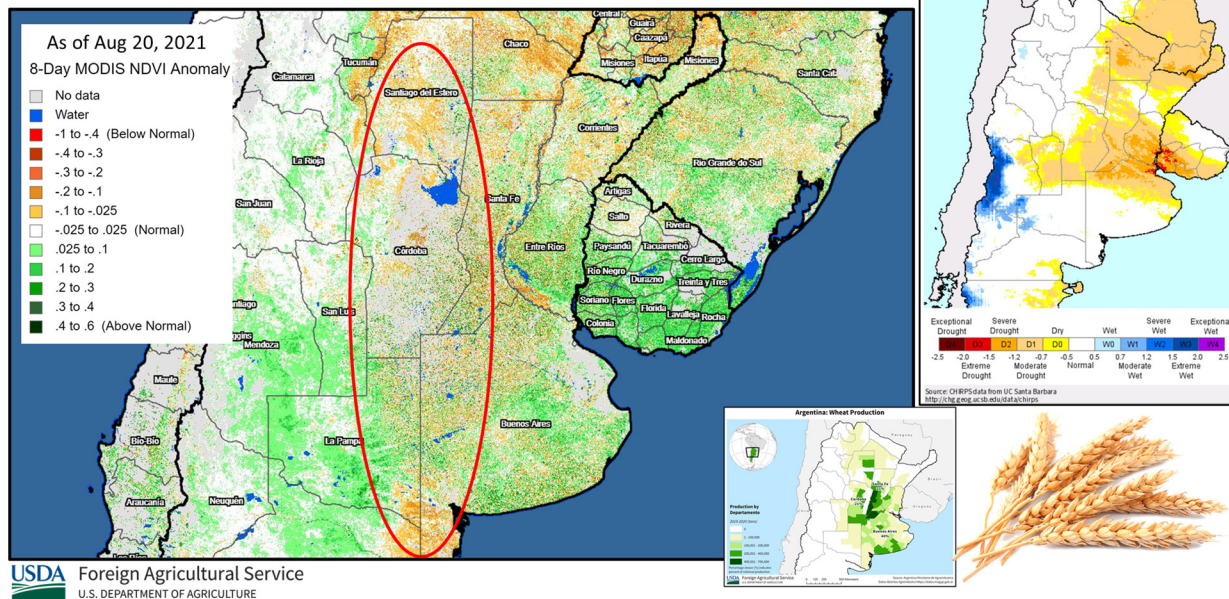
Jilin and Heilongjiang Province, China: NDVI Time Series Shows Crops at Advanced Maturity Stages



Favorable weather contributed to increased biomass at an earlier stage. The satellite-derived Normalized Difference Vegetation Index (NDVI) phenological curves show favorable year-to-year differences. USDA's satellite- and growing degree day-based (GDD) crop assessment models indicated that the corn crop was at advanced maturity and harvesting stages. Harvest began at the end of August and will continue through October. *(For more information, please contact Dath.Mita@usda.gov.)*

Argentina Wheat: Dry Conditions in West and North Lower Production Expectations

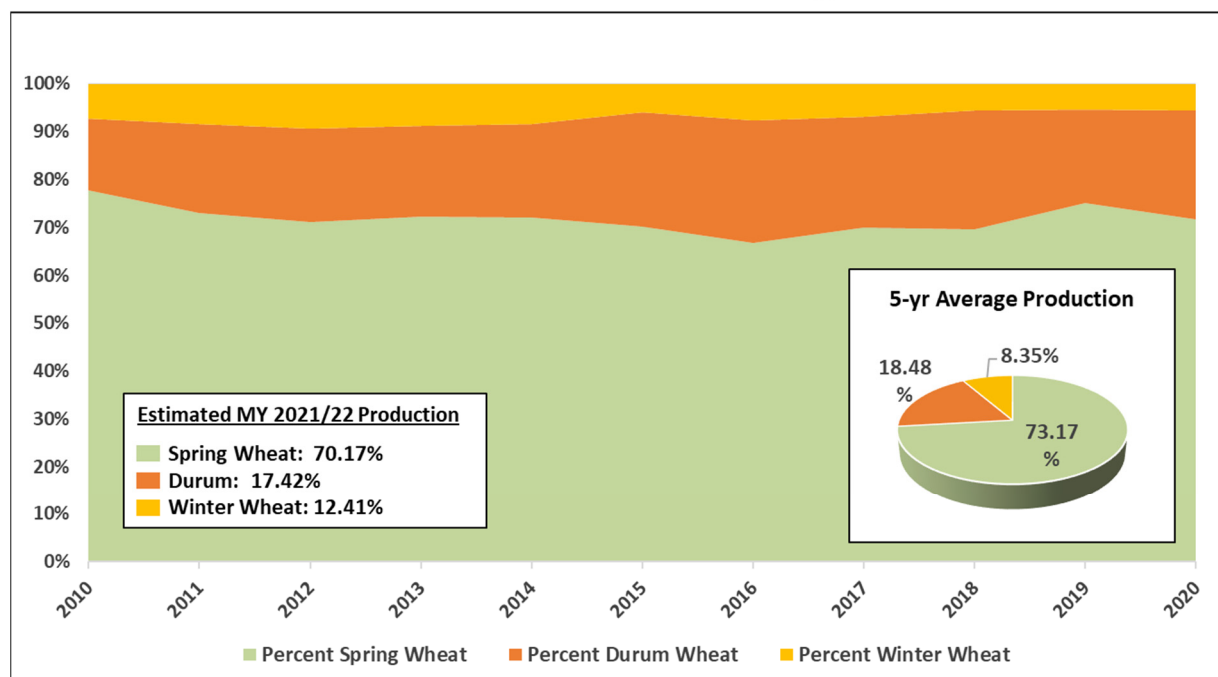
Timely Rains are Essential to Maintain Argentina Wheat Yield and Area for 2021/22



USDA forecasts Argentina wheat production for marketing year 2021/22 at a record 20.0 million metric tons, down 2 percent from last month but up 13 percent from last year. Harvested area is estimated at 6.5 million hectares, the same as last month but up 2 percent from last year. Increases in crop prices and export potential have encouraged Argentina farmers to plant more wheat this year. Yield is forecast at 3.08 tons per hectare, down 2 percent from last month but up 12 percent from last year. Lack of adequate moisture limits crop yield potential; currently soil moisture is less than ideal in western and northern regions where wheat is grown. Although the crop is planted, stand counts and tillering of the crop vary from field to field. Recent showers in part of the core planted area have helped crops in Buenos Aires, Entre Rios, and Santa Fe provinces. Timely rains in September and October are essential to maintain wheat yields. Harvest begins in November. *(For more information, please contact Denise.McWilliams@usda.gov.)*

Canada Wheat: Production and Yield Revised Down

Canada Wheat Production by Type

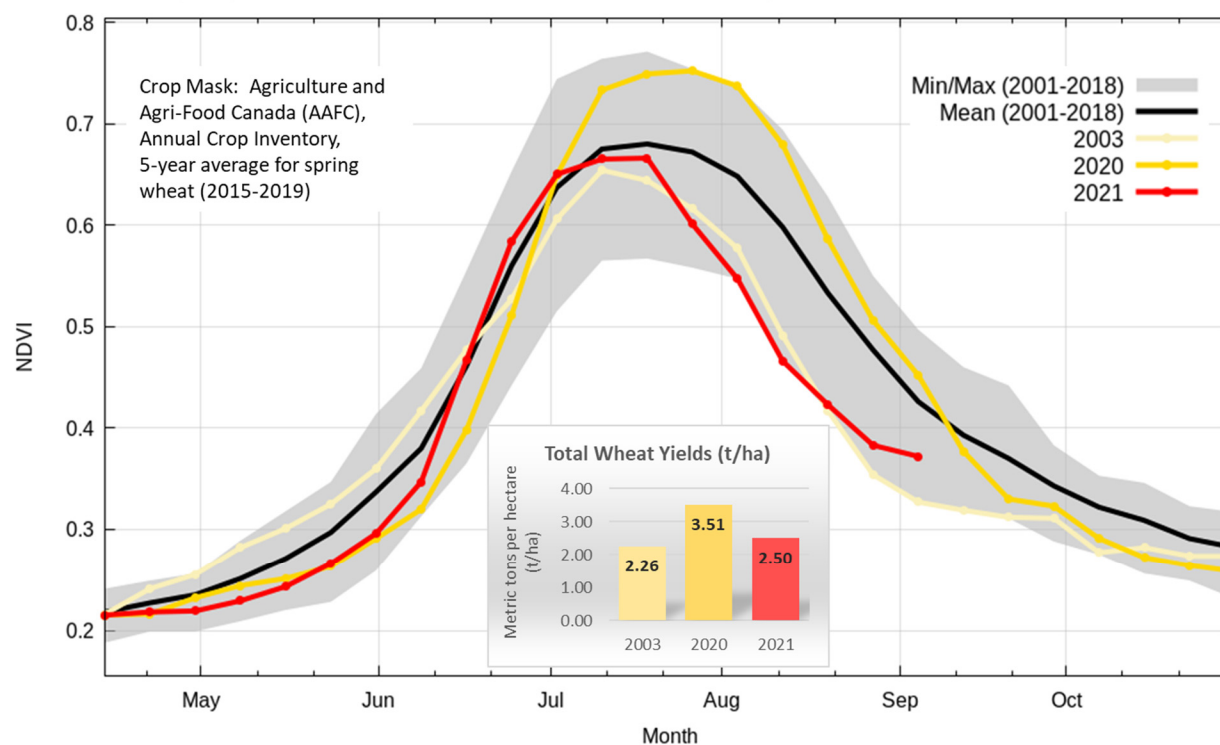


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Source: Statistics Canada

USDA estimates Canada wheat production for marketing year 2021/22 at 23.0 million metric tons (mmt), down 1.0 mmt (4 percent) from last month, 12.2 mmt (35 percent) from last year, and 29 percent below the 5-year average. Harvested area is estimated at 9.2 million hectares, unchanged from last month, but 8 percent below last year, and 3 percent below the 5-year average. Yield is estimated at 2.50 metric tons per hectare, down 4 percent from last month, 29 percent from last year, and 27 percent below the 5-year average.

Spring Wheat Areas in the Canadian Prairies: 8-Day MODIS NDVI Time Series



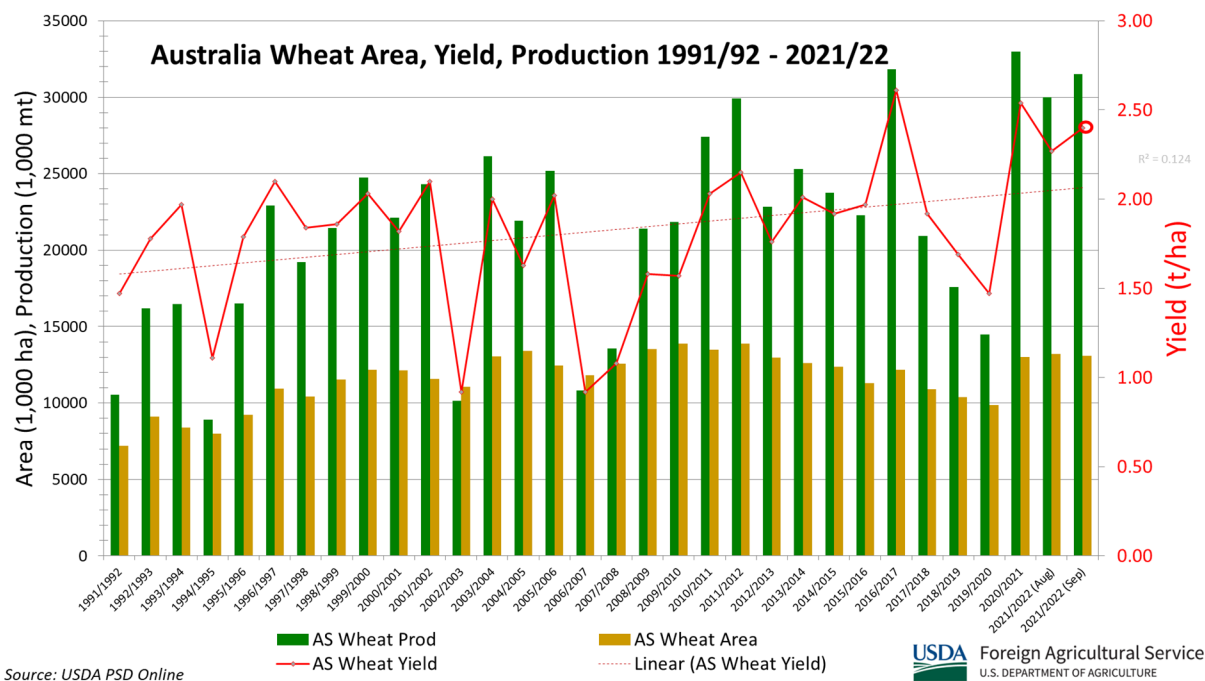
Sources: USDA/NASA GLAM, MODIS Terra 8-day NDVI; AAFC, Annual Crop Inventory, 5-Year Average Spring Wheat Production 2015-2019

Total Wheat Yields from USDA PSD Online

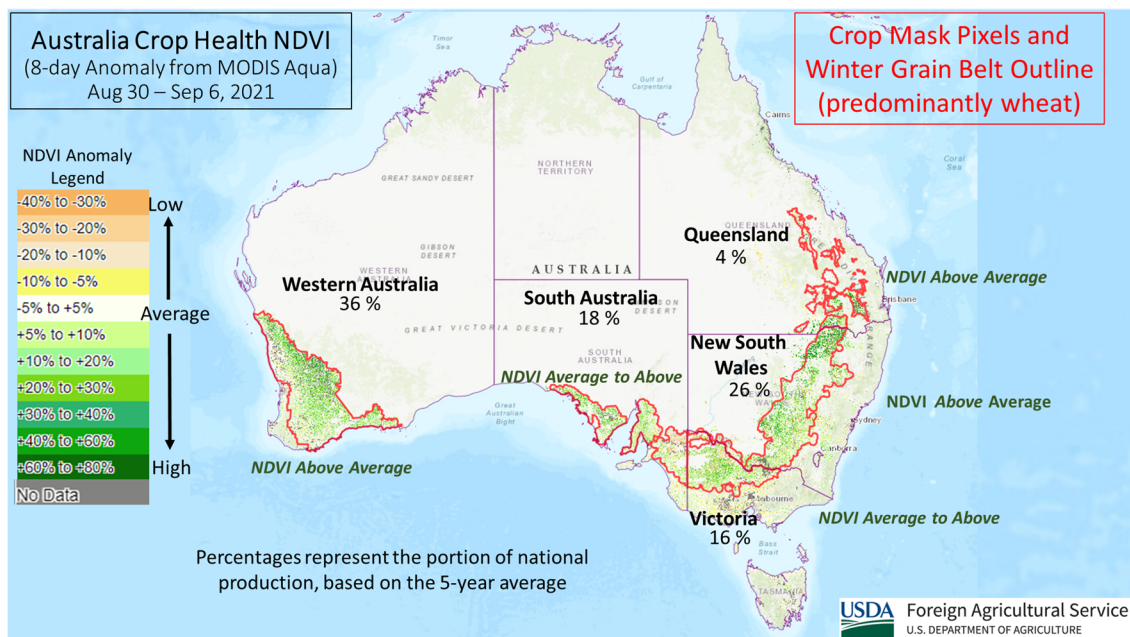
USDA has revised wheat production and yield estimates down further, based on reporting from Statistics Canada (StatCan) and its recently released July production estimates. StatCan produces these estimates using a model-based approach that incorporates, among other evidence, satellite-derived Normalized Difference Vegetation Index (NDVI) values from Agriculture and Agri-Food Canada's Crop Condition Assessment Program (CCAP). The NDVI time series curve for spring wheat (73 percent of the total wheat crop, on average) is suggestive of conditions in 2003; however, the CCAP has noted that the impacts of the current drought are much more extensive over the whole of Western Canada than those of previous droughts, such as in 2002 and 2003. StatCan expects overall wheat yield to be 29 percent below last year, as the spring and durum wheat crops have been severely degraded by the drought conditions on the Prairies. Provincial reports from Manitoba and Alberta indicate early yield estimates 32 and 46 percent below their 5-year provincial averages for spring wheat, respectively. *(For more information, please contact Aaron.Mulhollen@usda.gov.)*

Australia Wheat: Production Revised Higher

USDA forecasts Australia marketing year (MY) 2021/22 wheat production at 31.5 million metric tons (mmt), up 1.5 mmt or 5 percent from last month, but down 1.5 mmt or 5 percent from last year's record. Harvested area is estimated at 13.1 million hectares (mha), down 0.1 mha from last month, but up 0.1 mha or 1 percent from last year. Yield is forecast at 2.40 tons per hectare, up 6 percent from last month, but down 6 percent from last year.



The wheat area estimate for MY 2021/22 is supported by the high world wheat prices, and favorable seasonal conditions to date across much of the grain growing regions of Australia. Yield potential remains above average, particularly in the two largest producing states of Western Australia (36 percent) and New South Wales (26 percent).

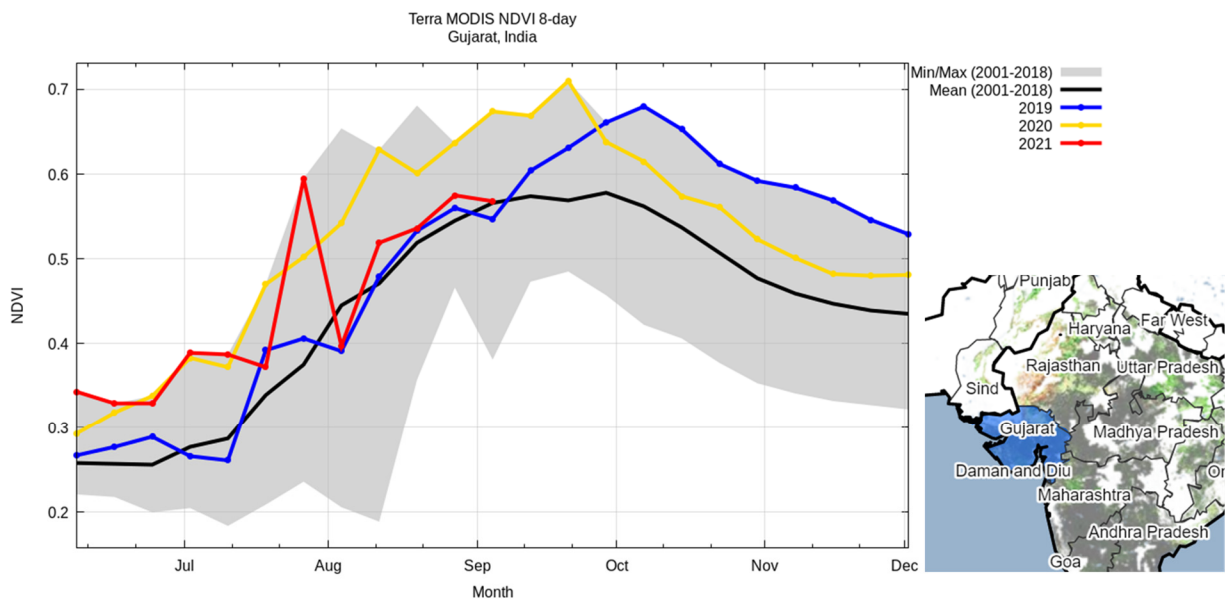


Abundant precipitation since sowing has benefited crop establishment. The recent satellite-derived Normalized Difference Vegetation Index (NDVI) depicts strong crop vigor, especially in the wheat belt of New South Wales and Western Australia. Currently, additional rainfall is needed in all growing states to sustain the current production potential. Harvest begins in November for the main wheat growing areas. (For more information, please contact James.Crutchfield@usda.gov.)

India Peanuts: Production Forecast Up

USDA forecasts peanut production at 6.8 million metric tons, up nearly 8 percent from last month and up 1 percent from last year. The monthly production increase is due to increased area planted. Harvested area is estimated to reach 5.9 million hectares, up 7 percent from August, but down nearly 2 percent from 2020. Favorable prices contributed to increased peanut planting. As of September 3, 2021, planting was down 4 percent from last year but exceeded the normal area for the *kharif* season by 12 percent. Yield is forecast to reach 1.15 metric tons per hectare, up 3 percent from last year.

Despite Dry Conditions, Crop Vigor Is Average



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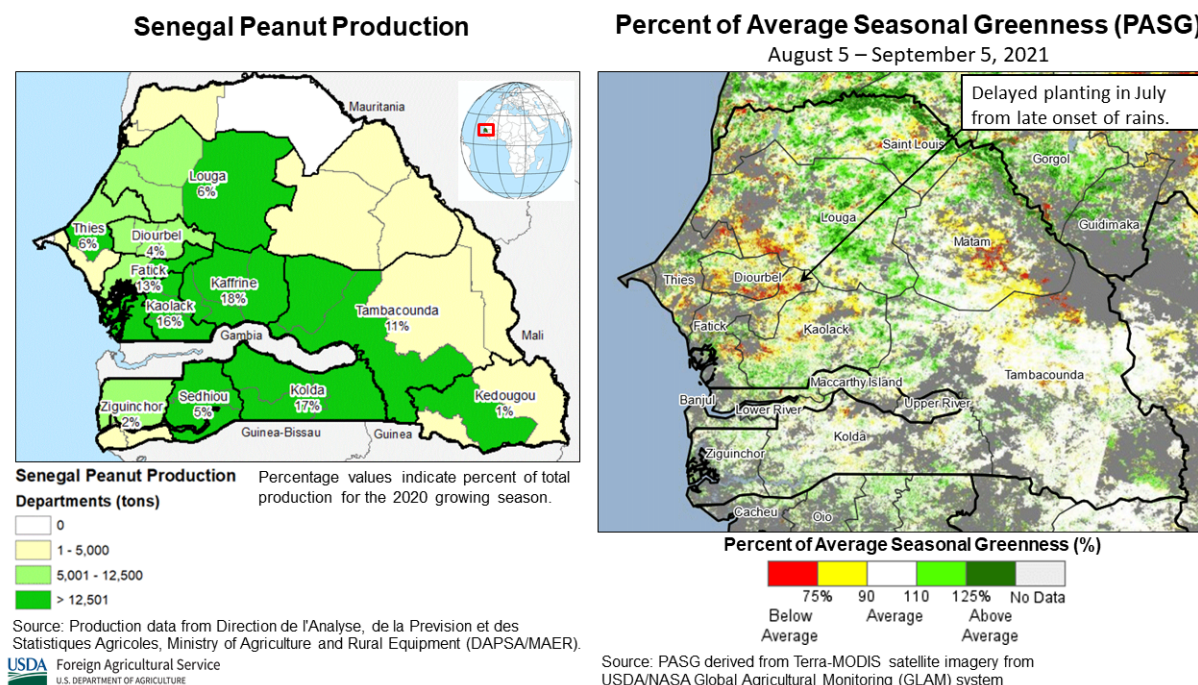
Sources: USDA/NASA GLAM, MODIS Terra 8-day NDVI;
Université Catholique de Louvain Unified Cropland mask.

Despite the monsoon covering the entire country, cumulative rainfall is 47 percent below normal in Gujarat, the top peanut producer. The earlier-planted portion of the crop is in the vegetative stage going into the flowering stage in Gujarat. Satellite-derived MODIS Normalized Difference Vegetation Index (NDVI) analysis showed crop vigor above the long-term average despite the dry conditions in major producing areas of Gujarat.

Peanuts account for about 25 percent of India's total oilseed production. There are two peanut-growing seasons in India: *kharif* and *rabi*. The *kharif* crop accounts for 85 percent of the total output and is typically planted in late June and harvested in October. The *rabi* crop is planted in late October through January and harvested in April. (For more information, please contact Arnella.Trent@usda.gov.)

Senegal Peanuts: Favorable August Rains Restore Production Prospects

Senegal peanut production for marketing year 2021/22 is forecast at 1.7 million metric tons (mmt), up 0.15 mmt (10 percent) from last month, but down 0.1 mmt (5 percent) from last year's record production. Harvested area is forecast at 1.2 million hectares (mha), unchanged from last month and down 25,000 hectares (2 percent) from last year. Yield is forecast at 1.42 metric tons per hectare, down 3 percent from last year's record yield.

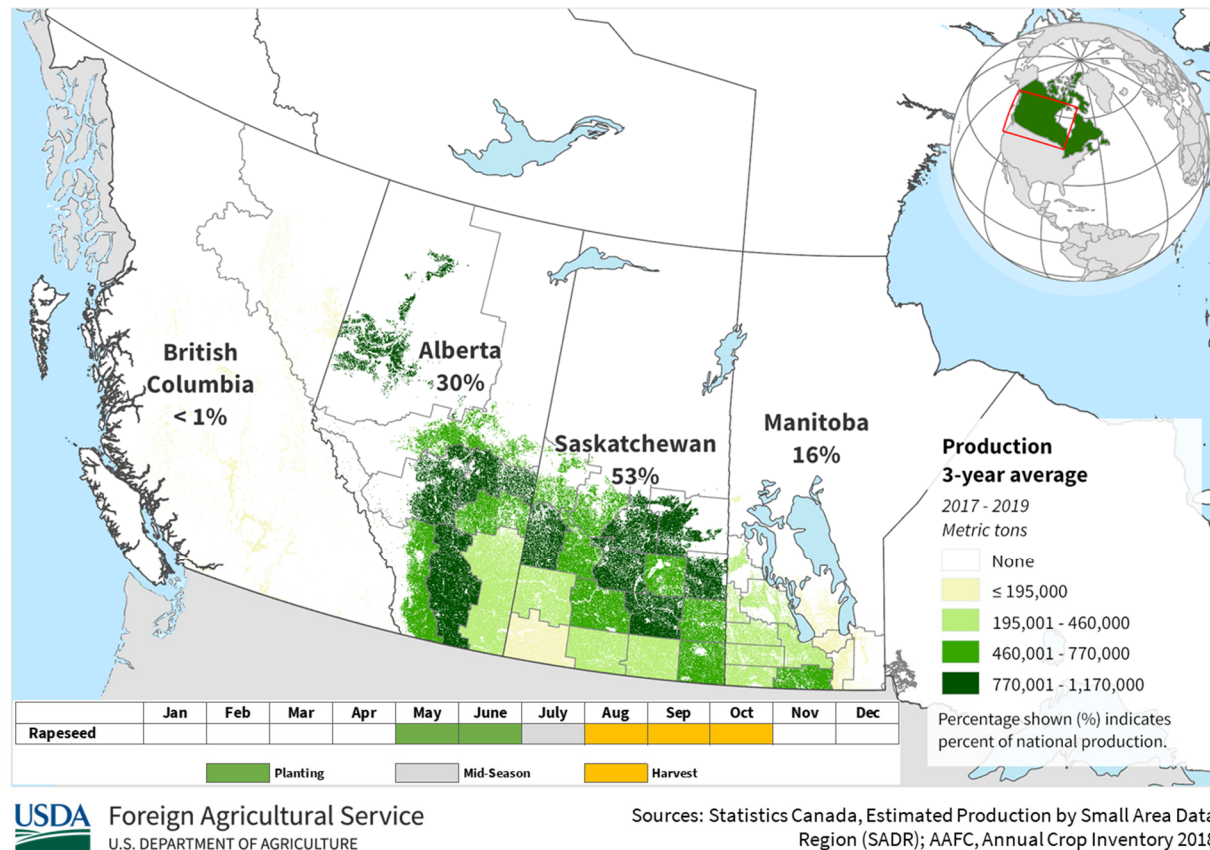


Senegal's planting season is from mid-May through July and harvest is from September to the end of October. Planting was delayed in many regions due to late onset of rains in July. Rains in August were well-above average for most of the country and seasonal precipitation from June through August 2021 was average to above average. The abundant August rains restored production prospects with an average yield forecast. Satellite-derived Percent of Average Seasonal Greenness (PASG) measurements for August indicate the regions where planting was delayed in July.

Peanuts are primarily produced in central and southern Senegal, where the following eight regions produced approximately 92 percent of total 2020 production: Kaffrine (18 percent of total), Kolda (17 percent), Kaolack (16 percent), Fatick (13 percent), Tambacounda (11 percent), Thies (6 percent), Louga (6 percent), and Sedhiou (5 percent). Harvested peanut area has been over 1.0 mha since 2015 and production has been over 1.0 mmt since 2017. *(For more information, please contact Curt.Reynolds@usda.gov.)*

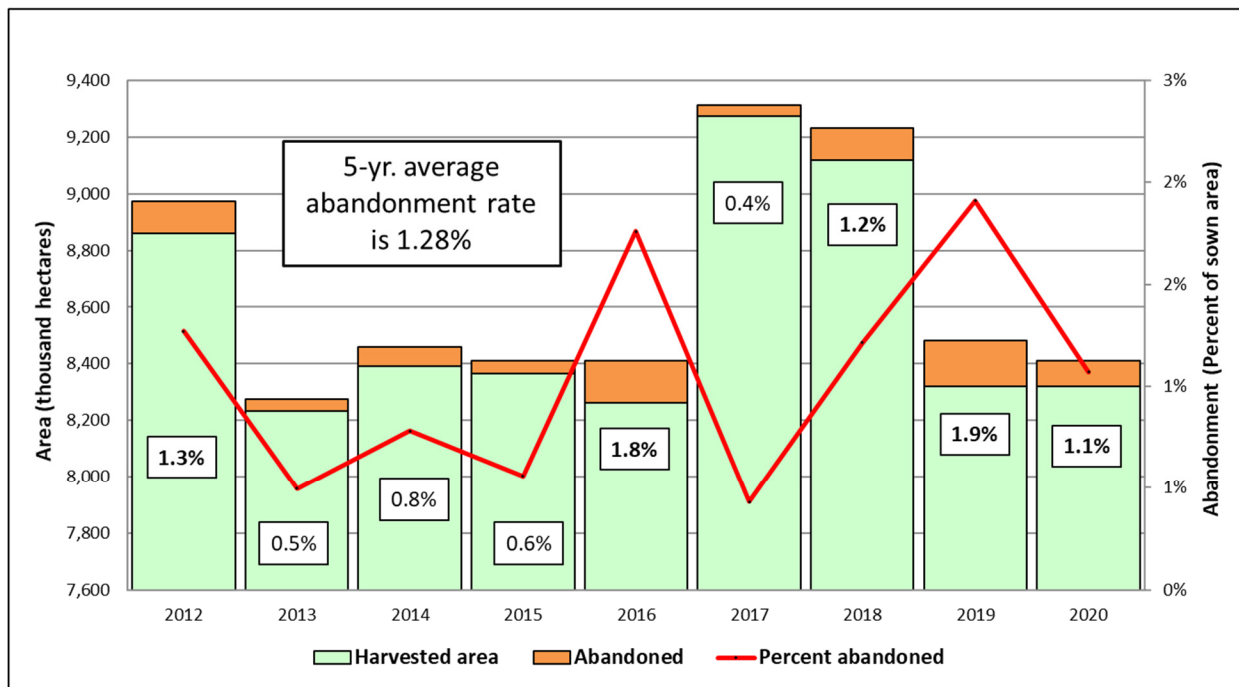
Canada Rapeseed: Production and Yield Revised Downward

Canada: Rapeseed Production



USDA estimates Canada rapeseed production for marketing year 2021/22 at 14.0 million metric tons (mmt), down 2.0 mmt (13 percent) from last month, 5.5 mmt (28 percent) from last year, and 31 percent below the 5-year average. Harvested area is estimated at 8.8 million hectares, up 1 percent from last month, 6 percent above last year, and 1 percent above the 5-year average. This harvested area increase is a relatively small adjustment based on new reporting from Statistics Canada (StatCan) and provincial government weekly reports. Yield is estimated at 1.59 metric tons per hectare, down 13 percent from last month, and 32 percent below last year and the 5-year average.

Rapeseed: Abandonment



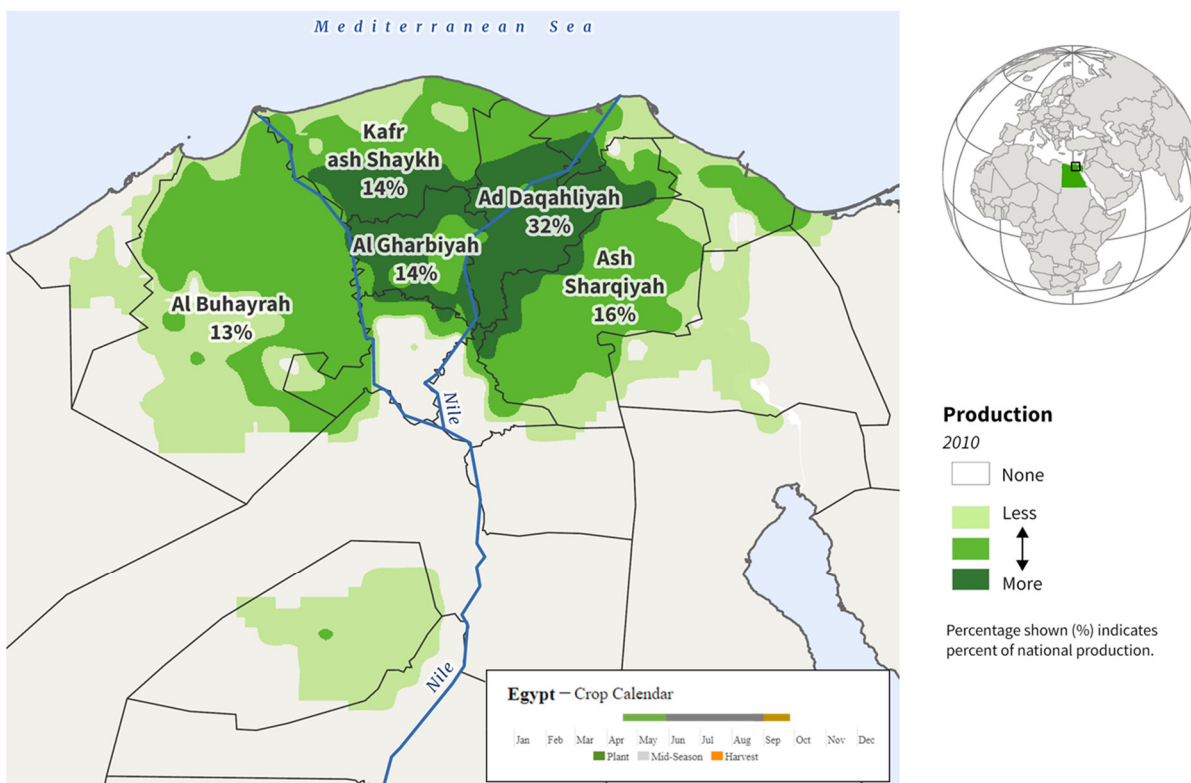
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Source: Statistics Canada

StatCan released its July 2021 production estimates for principal field crops, indicating substantially lower yield expectations. Rapeseed yield is estimated at 32 percent below the 5-year average, due to the severe drought on the Prairies, where most of the rapeseed crop is grown. A modelling approach that incorporates satellite imagery with other elements such as temperature and precipitation and crop insurance data, is used to produce these estimates. StatCan, however, is reporting historical averages for harvested area, though it has indicated that higher abandonment may occur this year, which would lower final harvested area and potentially production estimates when published in December. Industry and provincial sources have, throughout the summer, consistently reported lost acreage due to the ongoing drought. In addition, crop insurance agencies have incentivized salvaging poor crops (as opposed to abandonment) for feed to offset feed shortages. USDA expects abandonment to be above average, resulting in lower harvested area than current StatCan estimates. *(For more information, please contact Aaron.Mulhollen@usda.gov.)*

Egypt Rice: Stricter Enforcement of Area Limit Reduces Rice Crop

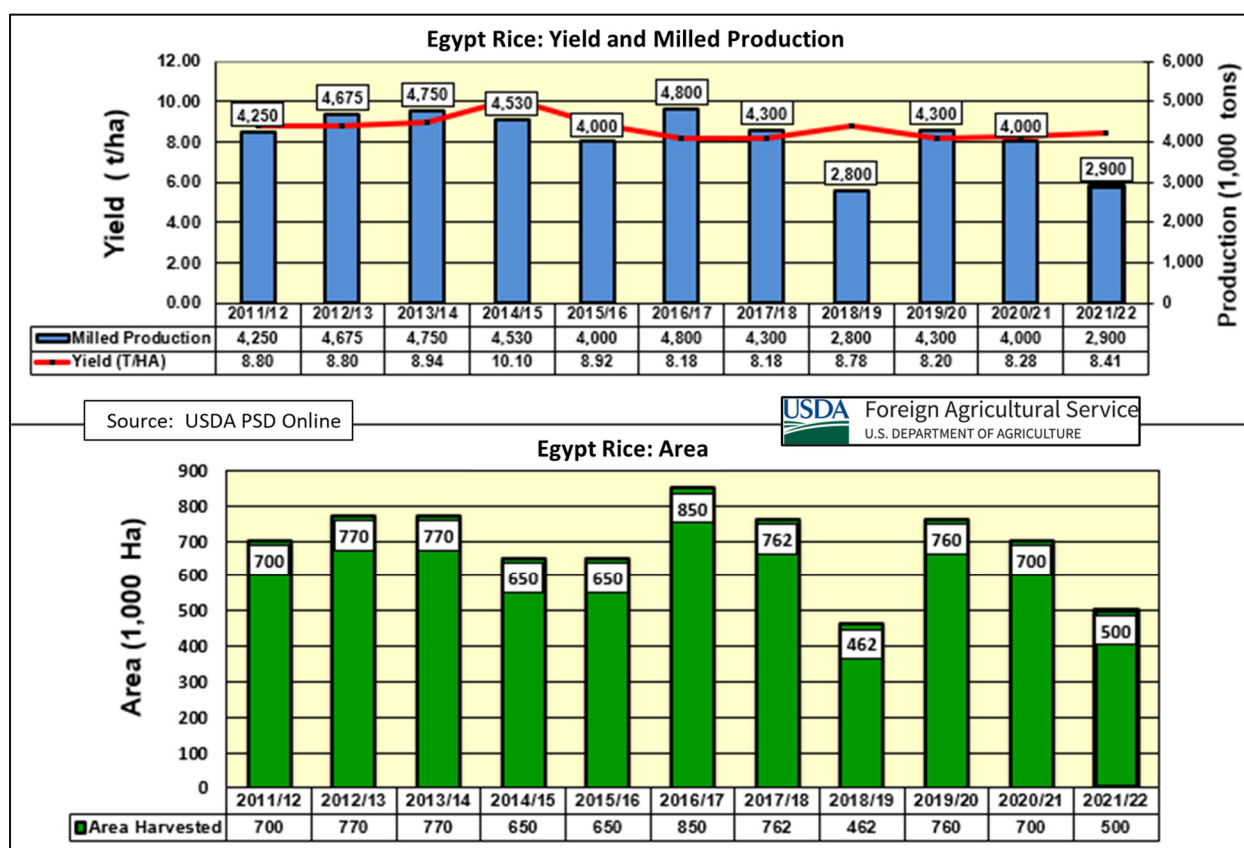
Egypt: Rice Production



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Source: International Food Policy Research Institute, 2019, "Global Spatially-Disaggregated Crop Production Statistics Data for 2010 Version 2.0", <https://doi.org/10.7910/DVN/PRFF8V>, Harvard Dataverse, V4

Marketing year (MY) 2021/2022 rice production in Egypt is estimated at 2.9 million tons (mmt), milled basis, 4.2 mmt rough. Milled production is estimated down 16 percent from last month, 28 percent from last year, and 28 percent from the 5-year average. Harvested area is estimated at 0.5 million hectares (mha), down 17 percent or 0.1 mha from last month, 29 percent or 0.2 mha from last year's 0.7 mha, and 29 percent below the 5-year average. Yield is estimated at 8.41 tons per hectare, up 1 percent from last month, 2 percent from last year, and 1 percent above the 5-year average.



Rice is planted in April and May and harvested in September. Due to reliable irrigation water from the Nile, rich alluvial soils, and high temperatures, rice production variability is primarily in response to area fluctuations. Rice is one of the most profitable crops for Egyptian farmers but water scarcity in Egypt is a constant pressure on the highly water-dependent crop. Restrictions for legally grown rice include geographical limits, where it is only permitted to be cultivated in specific areas of nine exclusive governorates of the Nile Delta. Total legal, national rice area is capped at about 451,000 hectares. These prohibitions have been in place for several years, but they have been largely ignored under usually lax enforcement, except for MY 2018/19. Earlier this year, the Government of Egypt (GOE) refocused its efforts on reducing illegal rice area by enacting a law that allows the levying of fines or prison sentences for planting rice illegally (See [USDA GAIN Report EG2021-0011](#)). This law, along with increased efforts to appeal to farmers about the tighter enforcement, has increased compliance, although area is still expected to be above the legal limit. Anxiety about water shortage has been rising as progress continues on the Grand Ethiopian Renaissance Dam, upstream on the Nile. Future Nile water availability, particularly in dry years, has become a prominent concern to those downstream from the dam. *(For more information, please contact Bryan.Purcell@usda.gov.)*

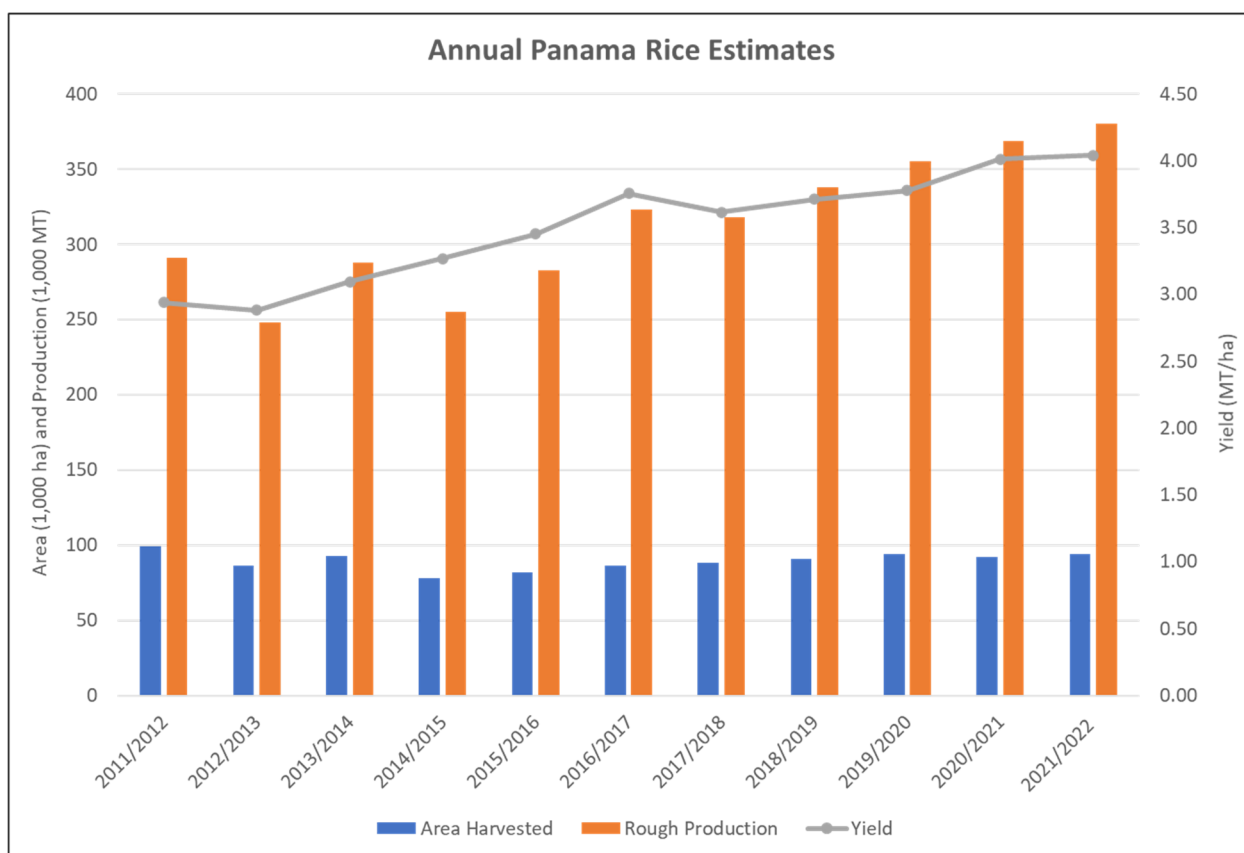
Panama Rice: Rough Production Up Slightly

Rainfed Rice Field in Coclé, Panama



Photo Courtesy of MIDA – July 1, 2021

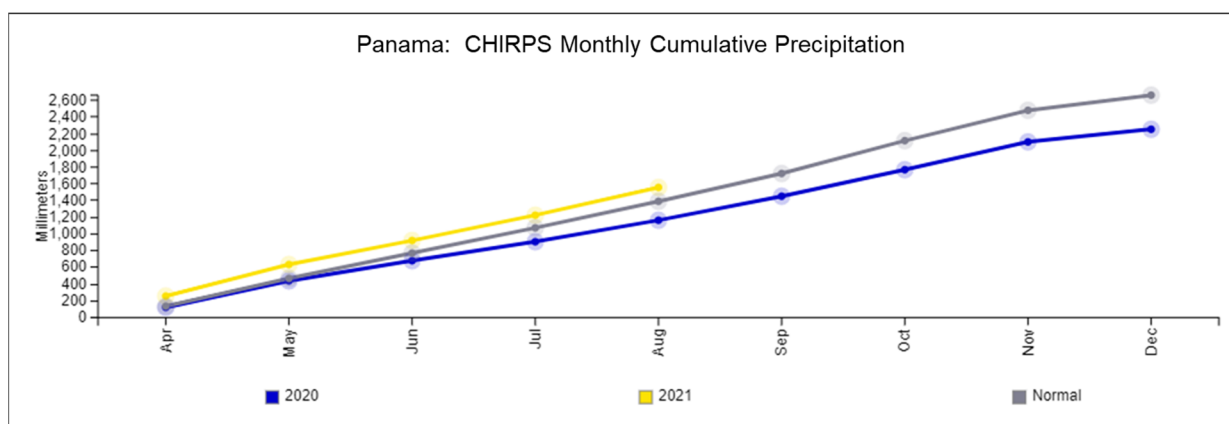
Panama's rough rice production for marketing year (MY) 2021/22 is estimated at 380,000 metric tons (mt), up 11,000 mt (about 3 percent) from MY 2020/21. Milled production is estimated at 247,000 mt. Harvested area is estimated at 94,000 hectares (ha), up 2,000 ha (about 2 percent) from MY 2020/21. Yield is estimated at 4.04 metric tons per hectare, up about 1 percent from MY 2020/21.



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Source: USDA PSD Online

Panama is the second largest rice producer in Central America, behind Nicaragua. About 85 percent of the rice production in Panama can be found in the provinces of Chiriquí, Veraguas, Panamá, Coclé, and Los Santos. Rice in Panama is mostly rainfed. The major rice crop was planted from July to September and will be harvested from November through January. Photos of rice fields in Coclé, Panama from the Ministerio de Desarrollo Agropecuario (MIDA) show good development. The minor rice crop was planted from April through May and is harvested August through October.



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Source: UCSB Climate Research Group

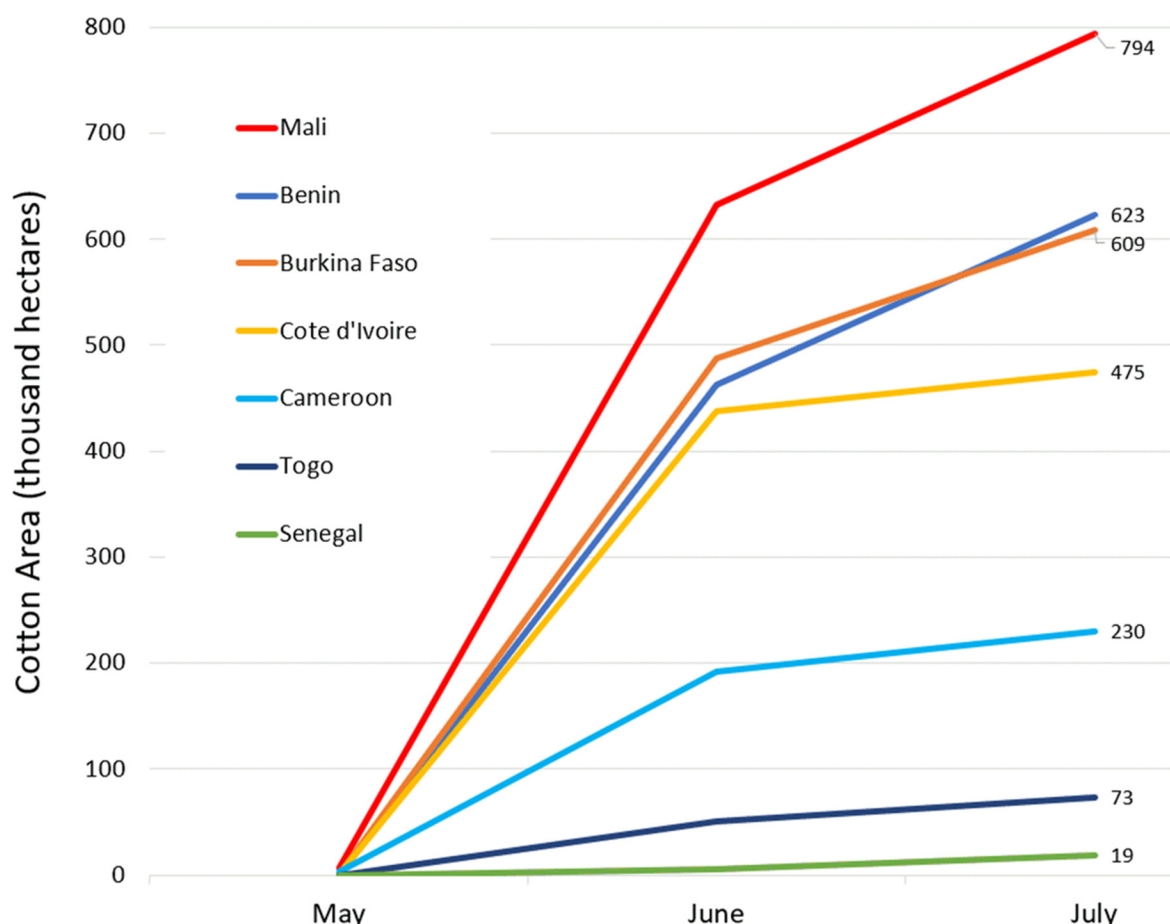
Precipitation has generally been favorable throughout the country to support crop development. Though total annual rainfall has been slightly below average in the Los Santos province as of late August 2021, it has been above last year in all of the major rice provinces based on CHIRPS data from the University of California, Santa Barbara (UCSB) Climate Research Group. *(For more information, please contact Ifeoma.Collins@usda.gov.)*

Africa Franc Zone Cotton: Mali Plants Record Area for Near Record Production Prospects

USDA forecasts Africa Franc Zone cotton production for marketing year (MY) 2021/22 at near record 5.86 million 480-pound bales, down 0.3 million bales (5 percent) from last month, up 1.0 million bales (21 percent) from last year, and down 59,000 bales (1 percent) from the MY 2019/20 record crop. Harvested area is forecast at 3.1 million hectares, down 190,000 hectares (6 percent) from last month, up 710,000 hectares (29 percent) from last year, and down slightly from the MY 2019/20 record area. The forecast yield of 408 kg/ha is nearly equal to the 5-year average yield.

Africa Franc Zone, as defined by WASDE, includes the following ten countries in order of forecast MY 2021/22 production (thousand 480-pound bales): Mali (1,475), Benin (1,300), Cote d'Ivoire (1,050), Burkina Faso (950), Cameroon (600), Chad (280), Togo (125), Central African Republic (36), Senegal (30), and Niger (9). Mali is forecast to be the largest cotton producer in Africa this year, followed by Benin, Cote d'Ivoire, and Burkina Faso. Mali planted a record area of 795,000 hectares, up 630,00 hectares (382 percent) from last year's crop. Unfavorable cotton prices at the time of planting caused cotton growers to plant alternative crops last year.

Cotton Area Planting Progress from May-July 2021 (thousand hectares planted)



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Source: Programme Regional de Production
Integree du Coton en Afrique (PR-PICA)

Cotton is sown from May to July and optimal planting for most countries is June, except for Senegal where optimal planting is July. Timely onset of rains in June allowed most countries to achieve over 90 percent of their planted area targets by late July. Regional crop reports indicate Mali, Benin, and Burkina Faso each planted over 600,000 hectares this year, but Togo planted below their cotton area expectations due to low farm gate prices persuading many cotton growers to shift to other crops.

Seasonal rainfall from June through August was well distributed for most countries, but northern Benin and Togo experienced a dry spell in late July. Precipitation in August was above average for the top producing countries and soil moisture was at abundant levels during August. Crop conditions in early September are above-average as indicated by satellite-derived Percent of Average Seasonal Greenness (PASG) and Normalized Difference Vegetation Index (NDVI) measurements. Cotton bolls started to open in early September and the cotton harvest occurs from October through December. *(For more information, please contact Curt.Reynolds@usda.gov.)*



**World Agricultural Production
U.S. Department of Agriculture**

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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), September 10, 2021.

Printed copies are available from the National Technical Information Service. Download an order form at http://www.ntis.gov/products/specialty/usda/fas_a-g.asp, or call NTIS at 1-800-363-2068.

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, October 12, 2021.

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
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Metric tons to hundredweight

Rice	=	MT * 22.04622
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Area & weight

1 hectare	=	2.471044 acres
1 kilogram	=	2.204622 pounds



For further information, contact:
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Papua New Guinea and South Pacific Islands			
Middle East, Central Asia, Afghanistan	Iliana Mladenova, Ph.D.	202-235-7562	iliana.mladenova@usda.gov
Iraq, Iran, and Syria			
Canada, Caribbean,	Aaron Mulhollen	202-690-0131	aaron.mulhollen@usda.gov
Eastern United States			
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://www.fas.usda.gov/databases/global-agricultural-information-network-gain>

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		Europea n	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 -	
Wheat 2019/20 2020/21 prel. 2021/22 proj. Aug Sep Coarse Grains 2019/20 2020/21 prel. 2021/22 proj. Aug Sep Rice, Milled 2019/20 2020/21 prel. 2021/22 proj. Aug Sep Total Grains 2019/20 2020/21 prel. 2021/22 proj. Aug Sep Oilseeds 2019/20 2020/21 prel. 2021/22 proj. Aug Sep Cotton 2019/20 2020/21 prel. 2021/22 proj. Aug Sep	---Million metric tons---																		
	763.6	711.0	52.6	32.7	3.3	73.6	29.2	nr	133.6	103.6	0.0	24.3	0.0	19.8	5.2	14.5	1.5	17.5	252.2
	775.8	726.1	49.7	35.2	3.0	85.4	25.4	nr	134.3	107.9	0.0	24.9	0.0	17.6	6.3	33.0	2.1	18.3	232.9
	776.9	730.7	46.2	24.0	3.1	72.5	33.0	nr	136.0	108.0	0.0	27.0	0.0	20.5	7.7	30.0	1.9	16.5	250.5
	780.3	734.1	46.2	23.0	3.1	72.5	33.0	nr	136.9	109.5	0.0	27.0	0.0	20.0	7.7	31.5	2.1	16.5	251.3
	1,415.3	1,055.8	359.4	28.6	32.1	40.5	46.5	nr	268.2	47.7	12.0	7.7	4.6	58.1	105.8	11.9	16.4	14.5	361.3
	1,427.2	1,052.6	374.6	29.6	32.0	41.4	39.6	nr	268.0	51.2	11.8	8.3	5.7	58.5	90.0	16.4	17.9	15.8	366.5
	1,484.4	1,096.1	388.3	26.2	33.8	41.9	50.3	nr	275.4	49.1	12.0	8.1	5.5	60.8	122.0	14.7	17.6	11.9	367.0
	1,496.9	1,101.2	395.7	24.9	33.8	39.9	50.8	nr	280.4	49.1	12.0	8.1	5.4	62.8	122.0	15.7	17.6	11.9	366.9
	498.3	492.4	5.9	0.0	0.2	0.7	0.0	nr	146.7	118.9	34.7	7.4	17.7	0.8	7.6	0.0	0.0	0.6	157.1
	506.2	499.0	7.2	0.0	0.2	0.7	0.0	nr	148.3	122.3	35.3	8.2	18.8	0.8	8.0	0.3	0.0	0.6	155.4
	507.4	501.2	6.3	0.0	0.2	0.7	0.0	nr	149.0	121.0	35.4	8.2	19.5	0.8	8.0	0.6	0.0	0.6	157.1
	507.9	501.9	6.0	0.0	0.2	0.7	0.0	nr	149.0	122.0	35.4	8.2	19.5	0.8	8.0	0.6	0.0	0.6	156.9
	2,677.1	2,259.2	417.9	61.3	35.5	114.8	75.8	nr	548.5	270.1	46.7	39.5	22.2	78.7	118.6	26.4	17.9	32.6	770.6
	2,709.2	2,277.8	431.5	64.8	35.1	127.5	65.0	nr	550.6	281.3	47.1	41.5	24.5	77.0	104.2	49.8	20.0	34.6	754.8
	2,768.8	2,328.0	440.7	50.2	37.1	115.1	83.4	nr	560.4	278.1	47.4	43.3	25.0	82.1	137.7	45.3	19.5	29.0	774.7
	2,785.1	2,337.2	447.9	47.9	37.1	113.1	83.9	nr	566.3	280.6	47.4	43.3	24.9	83.6	137.7	47.8	19.7	29.0	775.0
	580.5	473.5	107.0	25.8	0.9	21.7	24.5	nr	62.2	36.4	14.4	3.4	0.9	53.6	133.9	2.5	2.2	3.3	87.8
	601.1	478.8	122.4	25.9	0.8	20.1	19.9	nr	66.3	38.6	14.6	2.7	1.0	51.1	141.4	4.9	2.8	2.9	86.0
	629.5	501.4	128.1	22.2	0.8	22.9	23.8	nr	64.6	39.3	14.8	2.9	1.0	57.1	149.0	5.8	2.7	3.3	91.2
	629.2	499.8	129.3	20.0	0.8	22.9	23.8	nr	64.6	39.6	14.8	2.9	1.0	57.2	149.0	6.3	2.7	3.3	91.1
121.4	101.5	19.9	0.0	1.6	0.0	0.0	2.0	27.3	28.8	0.0	6.2	0.0	1.3	13.8	0.6	0.1	3.5	16.4	
112.4	97.8	14.6	0.0	1.0	0.0	0.0	1.7	29.5	28.3	0.0	4.5	0.0	1.4	10.8	2.8	0.1	2.9	14.9	
118.8	101.6	17.3	0.0	1.1	0.0	0.0	1.8	26.8	29.0	0.0	5.0	0.0	1.4	12.5	4.4	0.1	3.4	16.3	
119.6	101.1	18.5	0.0	1.1	0.0	0.0	1.7	26.8	28.5	0.0	5.0	0.0	1.5	12.5	4.7	0.1	3.4	16.0	

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	216.14	221.82	224.66	224.93	3.53	3.50	3.46	3.47	763.58	775.83	776.91	780.28	3.37	0.43	4.45	0.57
United States	15.13	14.87	15.42	15.42	3.47	3.34	2.99	2.99	52.58	49.69	46.18	46.18	0.00	0.00	-3.51	-7.07
Total Foreign	201.01	206.95	209.24	209.51	3.54	3.51	3.49	3.50	711.00	726.14	730.73	734.10	3.37	0.46	7.96	1.10
European Union	24.36	23.08	23.93	23.93	5.69	5.46	5.79	5.81	138.74	125.94	138.60	139.00	0.40	0.29	13.06	10.37
United Kingdom	1.80	1.39	1.75	1.75	8.69	6.96	8.57	8.57	15.60	9.66	15.00	15.00	0.00	0.00	5.34	55.31
Serbia	0.57	0.57	0.60	0.60	4.56	4.74	4.83	5.33	2.60	2.70	2.90	3.20	0.30	10.34	0.50	18.52
China	23.73	23.38	23.00	23.80	5.63	5.74	5.91	5.75	133.60	134.25	136.00	136.90	0.90	0.66	2.65	1.97
South Asia																
India	29.32	31.36	32.00	31.62	3.53	3.44	3.38	3.46	103.60	107.86	108.00	109.52	1.52	1.41	1.66	1.54
Pakistan	8.68	8.83	9.20	9.20	2.81	2.83	2.93	2.93	24.35	24.95	27.00	27.00	0.00	0.00	2.05	8.23
Afghanistan	2.30	2.33	2.20	2.20	2.17	2.15	2.00	2.00	5.00	5.01	4.40	4.40	0.00	0.00	-0.61	-12.18
Nepal	0.71	0.75	0.75	0.75	3.09	2.95	2.80	2.80	2.19	2.21	2.10	2.10	0.00	0.00	-0.11	-4.98
Former Soviet Union - 12																
Russia	27.31	28.68	28.00	28.00	2.70	2.98	2.59	2.59	73.61	85.35	72.50	72.50	0.00	0.00	-12.85	-15.06
Russia Winter	15.41	16.63	15.20	15.20	3.41	3.77	3.32	3.32	52.54	62.69	50.50	50.50	0.00	0.00	-12.19	-19.44
Russia Spring	11.91	12.06	12.80	12.80	1.77	1.88	1.72	1.72	21.07	22.67	22.00	22.00	0.00	0.00	-0.67	-2.93
Ukraine	7.02	6.85	7.40	7.40	4.16	3.71	4.46	4.46	29.17	25.42	33.00	33.00	0.00	0.00	7.58	29.82
Kazakhstan	11.34	12.08	12.70	12.70	1.01	1.18	0.98	0.98	11.45	14.26	12.50	12.50	0.00	0.00	-1.76	-12.32
Uzbekistan	1.40	1.40	1.40	1.40	4.86	4.65	4.29	4.29	6.80	6.51	6.00	6.00	0.00	0.00	-0.51	-7.83
Belarus	0.69	0.70	0.70	0.65	3.33	3.29	3.21	3.54	2.31	2.30	2.25	2.30	0.05	2.22	0.00	0.00
Canada	9.66	10.02	9.20	9.20	3.38	3.51	2.61	2.50	32.67	35.18	24.00	23.00	-1.00	-4.17	-12.18	-34.63
South America																
Argentina	6.73	6.40	6.50	6.50	2.94	2.76	3.15	3.08	19.78	17.65	20.50	20.00	-0.50	-2.44	2.36	13.35
Brazil	2.04	2.34	2.70	2.70	2.55	2.67	2.85	2.85	5.20	6.25	7.70	7.70	0.00	0.00	1.45	23.20
Australia	9.86	13.00	13.20	13.10	1.47	2.54	2.27	2.40	14.48	33.00	30.00	31.50	1.50	5.00	-1.50	-4.55
Africa																
Egypt	1.37	1.39	1.40	1.40	6.40	6.40	6.43	6.43	8.77	8.90	9.00	9.00	0.00	0.00	0.10	1.12
Morocco	2.51	2.76	2.86	2.86	1.61	0.93	2.63	2.63	4.03	2.56	7.50	7.50	0.00	0.00	4.94	192.97
Algeria	2.07	2.08	2.08	2.08	1.90	1.88	1.73	1.73	3.95	3.90	3.60	3.60	0.00	0.00	-0.30	-7.69
Ethiopia	1.79	1.85	1.90	1.90	2.97	2.76	2.73	2.73	5.32	5.10	5.18	5.18	0.00	0.00	0.08	1.57
Middle East																
Turkey	7.00	7.10	7.00	7.00	2.50	2.57	2.36	2.36	17.50	18.25	16.50	16.50	0.00	0.00	-1.75	-9.59
Iran	6.70	6.70	6.70	6.70	2.51	2.50	2.24	2.24	16.80	16.75	15.00	15.00	0.00	0.00	-1.75	-10.45
Iraq	2.40	2.40	2.50	2.50	2.00	1.93	1.80	1.80	4.80	4.64	4.50	4.50	0.00	0.00	-0.14	-2.91
Syria	1.60	1.60	1.40	1.40	3.00	2.81	2.00	2.00	4.80	4.50	2.80	2.80	0.00	0.00	-1.70	-37.78
Mexico	0.59	0.56	0.56	0.56	5.54	5.33	5.59	5.59	3.27	2.97	3.10	3.10	0.00	0.00	0.14	4.55
Others	7.46	7.37	7.62	7.63	2.76	2.72	2.77	2.79	20.62	20.08	21.10	21.30	0.20	0.95	1.22	6.06

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	335.82	339.96	340.28	341.08	4.21	4.20	4.36	4.39	1,415.27	1,427.18	1,484.40	1,496.89	12.48	0.84	69.71	4.88
United States	36.17	36.84	37.80	38.34	9.94	10.17	10.27	10.32	359.43	374.57	388.28	395.67	7.39	1.90	21.10	5.63
Total Foreign	299.66	303.12	302.48	302.74	3.52	3.47	3.62	3.64	1,055.84	1,052.61	1,096.12	1,101.22	5.09	0.46	48.60	4.62
China	43.60	43.56	44.29	44.29	6.15	6.15	6.22	6.33	268.18	268.02	275.40	280.40	5.00	1.82	12.38	4.62
European Union	28.74	29.40	28.72	28.72	5.31	5.24	5.34	5.35	152.74	154.04	153.45	153.65	0.20	0.13	-0.39	-0.25
United Kingdom	1.41	1.66	1.42	1.42	6.64	5.65	6.01	6.01	9.35	9.36	8.53	8.53	0.00	0.00	-0.83	-8.89
South America																
Brazil	19.86	21.23	22.23	22.23	5.33	4.24	5.49	5.49	105.82	89.96	122.02	122.02	0.00	0.00	32.06	35.64
Argentina	8.43	8.71	8.82	9.07	6.89	6.72	6.89	6.92	58.13	58.55	60.77	62.78	2.00	3.30	4.23	7.22
Former Soviet Union - 12																
Russia	14.51	14.55	14.23	14.03	2.79	2.84	2.95	2.84	40.50	41.40	41.90	39.90	-2.00	-4.77	-1.50	-3.61
Ukraine	8.22	8.53	8.60	8.60	5.67	4.64	5.85	5.91	46.55	39.59	50.32	50.82	0.50	0.99	11.23	28.37
Kazakhstan	3.45	3.20	2.67	2.67	1.47	1.54	1.45	1.45	5.06	4.93	3.88	3.88	0.00	0.00	-1.05	-21.25
Belarus	1.08	1.03	0.92	0.99	3.08	3.42	3.18	3.05	3.32	3.52	2.93	3.00	0.08	2.56	-0.52	-14.77
Africa																
Nigeria	14.40	13.10	13.70	13.70	1.37	1.42	1.45	1.45	19.67	18.57	19.80	19.80	0.00	0.00	1.23	6.62
South Africa	3.12	3.36	3.29	3.30	5.24	5.32	5.35	5.34	16.37	17.85	17.56	17.61	0.05	0.28	-0.24	-1.34
Tanzania	4.35	5.20	5.10	5.10	1.56	1.42	1.49	1.49	6.77	7.38	7.58	7.58	0.00	0.00	0.20	2.71
Burkina Faso	4.08	4.00	4.00	4.00	1.12	0.99	1.10	1.10	4.55	3.95	4.40	4.40	0.00	0.00	0.46	11.53
Ethiopia	5.58	5.60	5.62	5.62	3.08	3.08	3.07	3.07	17.17	17.25	17.25	17.25	0.00	0.00	0.00	0.00
Egypt	1.02	1.02	1.02	1.02	7.09	7.09	7.09	7.09	7.26	7.26	7.26	7.26	0.00	0.00	0.00	0.00
Mali	4.92	5.17	4.70	4.70	1.46	1.38	1.45	1.45	7.21	7.14	6.80	6.80	0.00	0.00	-0.34	-4.70
India	23.98	23.83	24.00	24.00	1.99	2.15	2.04	2.04	47.66	51.21	49.05	49.07	0.02	0.04	-2.14	-4.18
Southeast Asia																
Indonesia	3.80	3.60	3.60	3.60	3.16	3.28	3.33	3.33	12.00	11.80	12.00	12.00	0.00	0.00	0.20	1.69
Philippines	2.51	2.57	2.50	2.50	3.20	3.25	3.20	3.20	8.03	8.35	8.00	8.00	0.00	0.00	-0.35	-4.21
Vietnam	0.99	0.95	0.90	0.90	4.80	4.83	4.89	4.89	4.76	4.59	4.40	4.40	0.00	0.00	-0.19	-4.14
Thailand	1.24	1.28	1.23	1.23	3.66	4.41	4.44	4.36	4.55	5.65	5.45	5.35	-0.10	-1.83	-0.30	-5.31
Mexico	8.41	8.76	9.11	9.11	3.82	3.65	3.71	3.71	32.10	31.96	33.75	33.75	0.00	0.00	1.79	5.59
Canada	5.54	5.80	5.70	5.67	5.16	5.11	4.59	4.39	28.61	29.64	26.15	24.87	-1.28	-4.89	-4.77	-16.10
Australia	6.18	5.99	5.78	5.88	1.93	2.75	2.55	2.67	11.90	16.45	14.70	15.70	1.00	6.80	-0.75	-4.53
Middle East																
Turkey	4.53	4.63	4.46	4.46	3.19	3.40	2.67	2.67	14.45	15.76	11.93	11.93	0.00	0.00	-3.83	-24.30
Iran	1.91	1.91	1.91	1.91	2.63	2.71	2.31	2.31	5.02	5.17	4.42	4.42	0.00	0.00	-0.75	-14.51
Others	73.81	74.49	73.99	74.06	1.60	1.66	1.71	1.70	118.15	123.29	126.43	126.06	-0.38	-0.30	2.77	2.25

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	194.19	197.71	199.93	200.30	5.76	5.65	5.93	5.98	1,118.66	1,117.11	1,186.12	1,197.77	11.65	0.98	80.65	7.22
United States	32.92	33.37	34.19	34.43	10.51	10.79	10.96	11.06	345.96	360.25	374.68	380.93	6.25	1.67	20.68	5.74
Total Foreign	161.28	164.34	165.74	165.87	4.79	4.61	4.90	4.92	772.70	756.86	811.44	816.84	5.40	0.67	59.98	7.92
China	41.28	41.26	42.00	42.00	6.32	6.32	6.38	6.50	260.78	260.67	268.00	273.00	5.00	1.87	12.33	4.73
South America																
Brazil	18.50	19.83	20.80	20.80	5.51	4.34	5.67	5.67	102.00	86.00	118.00	118.00	0.00	0.00	32.00	37.21
Argentina	6.30	6.40	6.25	6.50	8.10	7.81	8.16	8.15	51.00	50.00	51.00	53.00	2.00	3.92	3.00	6.00
Bolivia	0.42	0.47	0.48	0.48	2.26	2.30	2.32	2.32	0.96	1.08	1.10	1.10	0.00	0.00	0.02	1.85
European Union	8.91	9.04	8.85	8.85	7.49	7.13	7.40	7.40	66.74	64.47	65.50	65.50	0.00	0.00	1.03	1.60
Africa																
South Africa	2.91	3.12	3.10	3.10	5.45	5.45	5.48	5.48	15.84	17.00	17.00	17.00	0.00	0.00	0.00	0.00
Nigeria	6.50	5.50	6.00	6.00	1.69	1.82	1.83	1.83	11.00	10.00	11.00	11.00	0.00	0.00	1.00	10.00
Ethiopia	2.30	2.30	2.30	2.30	3.70	3.74	3.74	3.74	8.50	8.60	8.60	8.60	0.00	0.00	0.00	0.00
Egypt	0.80	0.80	0.80	0.80	8.00	8.00	8.00	8.00	6.40	6.40	6.40	6.40	0.00	0.00	0.00	0.00
Tanzania	3.43	4.20	4.10	4.10	1.65	1.50	1.59	1.59	5.65	6.30	6.50	6.50	0.00	0.00	0.20	3.17
Malawi	1.70	1.70	1.70	1.70	1.78	2.22	2.47	2.47	3.03	3.78	4.20	4.20	0.00	0.00	0.42	11.11
Zambia	0.84	1.29	1.30	1.30	2.38	2.62	2.78	2.78	2.00	3.39	3.62	3.62	0.00	0.00	0.23	6.88
Kenya	2.20	2.20	2.20	2.20	1.77	1.82	1.82	1.82	3.90	4.00	4.00	4.00	0.00	0.00	0.00	0.00
Uganda	0.95	1.10	1.10	1.10	2.71	2.50	2.55	2.55	2.58	2.75	2.80	2.80	0.00	0.00	0.05	1.82
Zimbabwe	1.62	1.58	1.95	1.95	0.48	0.57	1.39	1.39	0.78	0.91	2.72	2.72	0.00	0.00	1.81	199.23
Former Soviet Union - 12																
Ukraine	4.99	5.40	5.42	5.42	7.19	5.62	7.20	7.20	35.89	30.30	39.00	39.00	0.00	0.00	8.70	28.73
Russia	2.50	2.73	3.00	2.80	5.70	5.08	5.50	5.54	14.28	13.87	16.50	15.50	-1.00	-6.06	1.63	11.74
South Asia																
India	9.57	9.87	9.70	9.70	3.01	3.19	3.09	3.09	28.77	31.51	30.00	30.00	0.00	0.00	-1.51	-4.79
Pakistan	1.41	1.39	1.40	1.40	5.12	5.63	5.43	5.43	7.24	7.80	7.60	7.60	0.00	0.00	-0.20	-2.56
Nepal	0.96	0.97	0.97	0.97	2.76	2.82	2.82	2.82	2.65	2.72	2.72	2.72	0.00	0.00	0.00	0.00
Southeast Asia																
Indonesia	3.80	3.60	3.60	3.60	3.16	3.28	3.33	3.33	12.00	11.80	12.00	12.00	0.00	0.00	0.20	1.69
Philippines	2.51	2.57	2.50	2.50	3.20	3.25	3.20	3.20	8.03	8.35	8.00	8.00	0.00	0.00	-0.35	-4.21
Vietnam	0.99	0.95	0.90	0.90	4.80	4.83	4.89	4.89	4.76	4.59	4.40	4.40	0.00	0.00	-0.19	-4.14
Thailand	1.22	1.26	1.20	1.20	3.70	4.46	4.50	4.42	4.50	5.60	5.40	5.30	-0.10	-1.85	-0.30	-5.36
Mexico	6.62	7.14	7.30	7.30	4.03	3.78	3.84	3.84	26.66	27.00	28.00	28.00	0.00	0.00	1.00	3.70
Canada	1.45	1.41	1.35	1.35	9.24	9.63	10.07	10.07	13.40	13.56	13.60	13.60	0.00	0.00	0.04	0.27
Turkey	0.52	0.62	0.54	0.54	11.54	11.45	11.76	11.76	6.00	7.10	6.35	6.35	0.00	0.00	-0.75	-10.56
Others	26.07	25.66	24.94	25.02	2.58	2.62	2.70	2.68	67.39	67.31	67.43	66.93	-0.50	-0.74	-0.38	-0.57

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	52.36	51.76	50.01	50.10	3.01	3.10	2.99	2.98	157.82	160.24	149.43	149.28	-0.16	-0.10	-10.96	-6.84
United States	0.90	0.86	0.83	0.83	4.18	4.17	2.78	2.78	3.76	3.60	2.30	2.30	0.00	0.00	-1.30	-36.17
Total Foreign	51.46	50.90	49.19	49.27	2.99	3.08	2.99	2.98	154.06	156.64	147.14	146.98	-0.16	-0.11	-9.66	-6.17
European Union	11.17	11.41	10.98	10.98	4.95	4.86	4.96	4.97	55.27	55.49	54.40	54.60	0.20	0.37	-0.89	-1.61
United Kingdom	1.16	1.39	1.14	1.14	6.93	5.85	6.32	6.32	8.05	8.12	7.20	7.20	0.00	0.00	-0.92	-11.30
Former Soviet Union - 12																
Russia	8.40	8.16	7.75	7.75	2.37	2.53	2.45	2.32	19.94	20.63	19.00	18.00	-1.00	-5.26	-2.63	-12.74
Ukraine	2.78	2.58	2.70	2.70	3.42	3.08	3.70	3.89	9.53	7.95	10.00	10.50	0.50	5.00	2.55	32.13
Kazakhstan	2.98	2.73	2.20	2.20	1.29	1.34	1.14	1.14	3.83	3.66	2.50	2.50	0.00	0.00	-1.16	-31.68
Belarus	0.41	0.38	0.35	0.35	2.69	2.76	2.57	2.86	1.10	1.05	0.90	1.00	0.10	11.11	-0.05	-4.76
Azerbaijan	0.34	0.35	0.37	0.37	2.97	2.81	2.74	2.74	1.02	0.97	1.00	1.00	0.00	0.00	0.03	3.09
Canada	2.73	2.81	3.00	3.00	3.81	3.82	2.93	2.60	10.38	10.74	8.80	7.80	-1.00	-11.36	-2.94	-27.38
Australia	5.04	4.40	4.20	4.30	2.01	2.95	2.62	2.79	10.13	13.00	11.00	12.00	1.00	9.09	-1.00	-7.69
Middle East																
Turkey	3.80	3.80	3.70	3.70	2.08	2.13	1.35	1.35	7.90	8.10	5.00	5.00	0.00	0.00	-3.10	-38.27
Iran	1.70	1.70	1.70	1.70	2.12	2.21	1.76	1.76	3.60	3.75	3.00	3.00	0.00	0.00	-0.75	-20.00
Iraq	1.20	1.20	1.10	1.10	1.33	1.29	1.18	1.18	1.60	1.55	1.30	1.30	0.00	0.00	-0.25	-16.13
Syria	1.50	1.50	1.30	1.30	1.33	1.27	0.85	0.85	2.00	1.90	1.10	1.10	0.00	0.00	-0.80	-42.11
Africa																
Ethiopia	1.00	1.00	1.00	1.00	2.30	2.35	2.35	2.35	2.30	2.35	2.35	2.35	0.00	0.00	0.00	0.00
Morocco	1.05	1.47	1.49	1.49	1.11	0.44	1.87	1.87	1.16	0.64	2.78	2.78	0.00	0.00	2.14	334.38
Algeria	1.03	1.03	1.03	1.03	1.95	1.80	1.56	1.56	2.00	1.85	1.60	1.60	0.00	0.00	-0.25	-13.28
Tunisia	0.47	0.36	0.37	0.37	1.94	1.28	1.77	1.77	0.91	0.47	0.65	0.65	0.00	0.00	0.19	39.78
South Africa	0.13	0.14	0.10	0.10	2.61	4.14	3.60	3.60	0.35	0.59	0.36	0.36	0.00	0.00	-0.23	-38.78
South America																
Argentina	1.12	1.09	1.25	1.25	3.39	4.13	3.84	3.84	3.80	4.50	4.80	4.80	0.00	0.00	0.30	6.67
Uruguay	0.17	0.19	0.20	0.20	3.68	4.81	4.30	4.30	0.61	0.89	0.86	0.86	0.00	0.00	-0.03	-3.37
Brazil	0.12	0.10	0.10	0.10	3.61	3.63	3.74	3.74	0.43	0.37	0.39	0.39	0.00	0.00	0.01	2.94
India	0.58	0.59	0.60	0.60	2.84	2.92	2.75	2.78	1.63	1.72	1.65	1.67	0.02	1.21	-0.05	-2.91
China	0.26	0.26	0.25	0.25	3.46	3.46	3.60	3.60	0.90	0.90	0.90	0.90	0.00	0.00	0.00	0.00
Mexico	0.36	0.30	0.34	0.34	2.81	3.05	2.82	2.82	1.01	0.90	0.96	0.96	0.00	0.00	0.06	6.67
Afghanistan	0.18	0.17	0.16	0.16	1.39	1.41	1.25	1.25	0.25	0.24	0.20	0.20	0.00	0.00	-0.04	-16.67
Others	1.79	1.80	1.82	1.81	2.45	2.40	2.44	2.47	4.38	4.33	4.44	4.47	0.03	0.56	0.14	3.21

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	9.55	10.01	9.56	9.56	2.43	2.55	2.46	2.45	23.21	25.49	23.55	23.38	-0.18	-0.74	-2.11	-8.28
United States	0.34	0.41	0.29	0.29	2.31	2.34	2.06	2.06	0.77	0.95	0.60	0.60	0.00	0.00	-0.35	-36.67
Total Foreign	9.21	9.61	9.26	9.27	2.44	2.55	2.48	2.46	22.44	24.54	22.95	22.78	-0.18	-0.76	-1.76	-7.18
European Union	2.37	2.58	2.60	2.60	2.94	3.29	3.15	3.15	6.96	8.49	8.20	8.20	0.00	0.00	-0.29	-3.38
Former Soviet Union - 12																
Russia	2.43	2.33	2.20	2.20	1.82	1.77	1.86	1.86	4.42	4.13	4.10	4.10	0.00	0.00	-0.03	-0.65
Ukraine	0.18	0.20	0.18	0.18	2.32	2.54	2.50	2.50	0.43	0.52	0.45	0.45	0.00	0.00	-0.07	-12.62
Belarus	0.16	0.15	0.16	0.15	2.30	2.47	2.34	2.33	0.37	0.37	0.38	0.35	-0.03	-6.67	-0.02	-5.41
Kazakhstan	0.24	0.23	0.20	0.20	1.10	1.05	1.00	1.00	0.27	0.24	0.20	0.20	0.00	0.00	-0.04	-16.67
Canada	1.17	1.31	1.10	1.10	3.62	3.48	2.82	2.64	4.23	4.58	3.10	2.90	-0.20	-6.45	-1.68	-36.63
South America																
Argentina	0.32	0.24	0.30	0.30	1.86	2.13	2.30	2.30	0.60	0.51	0.69	0.69	0.00	0.00	0.18	35.29
Brazil	0.40	0.43	0.43	0.43	2.21	1.99	2.18	2.18	0.88	0.85	0.93	0.93	0.00	0.00	0.08	9.57
Chile	0.10	0.11	0.11	0.11	4.92	4.65	5.45	5.45	0.48	0.53	0.60	0.60	0.00	0.00	0.08	14.29
Uruguay	0.02	0.02	0.02	0.02	2.19	2.20	2.33	2.33	0.04	0.03	0.04	0.04	0.00	0.00	0.00	6.06
Oceania																
Australia	0.82	0.95	0.90	0.90	1.40	1.76	1.72	1.72	1.14	1.68	1.55	1.55	0.00	0.00	-0.13	-7.46
New Zealand	0.01	0.00	0.00	0.00	5.40	6.00	6.00	6.00	0.03	0.02	0.02	0.02	0.00	0.00	0.00	0.00
China	0.41	0.41	0.41	0.41	1.48	1.48	1.48	1.48	0.60	0.60	0.60	0.60	0.00	0.00	0.00	0.00
Africa																
Algeria	0.09	0.09	0.09	0.09	1.29	1.29	1.29	1.29	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00
Morocco	0.01	0.04	0.04	0.04	0.62	0.88	1.13	1.13	0.01	0.04	0.05	0.05	0.00	0.00	0.01	28.57
South Africa	0.02	0.03	0.02	0.04	0.81	2.19	1.50	2.29	0.02	0.06	0.03	0.08	0.05	166.67	0.02	40.35
Other Europe																
United Kingdom	0.18	0.21	0.22	0.22	5.91	4.91	5.12	5.12	1.08	1.03	1.10	1.10	0.00	0.00	0.07	6.69
Norway	0.07	0.07	0.07	0.07	4.29	4.29	4.29	4.29	0.30	0.30	0.30	0.30	0.00	0.00	0.00	0.00
Serbia	0.03	0.03	0.03	0.03	2.17	2.17	2.17	2.17	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Albania	0.02	0.01	0.01	0.01	2.06	2.14	2.14	2.14	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
Bosnia and Herzegovina	0.01	0.01	0.01	0.01	2.70	3.09	2.82	2.82	0.03	0.03	0.03	0.03	0.00	0.00	0.00	-8.82
Turkey	0.10	0.10	0.11	0.11	2.30	2.40	2.38	2.38	0.23	0.24	0.25	0.25	0.00	0.00	0.01	4.17
Mexico	0.05	0.03	0.05	0.05	1.98	2.03	2.00	2.00	0.10	0.06	0.09	0.09	0.00	0.00	0.03	42.86
Others	0.03	0.03	0.03	0.03	1.67	1.66	1.76	1.76	0.05	0.05	0.05	0.05	0.00	0.00	0.00	6.25

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.		2021/22 Proj.		Prel.		2021/22 Proj.		Prel.		2021/22 Proj.		From last month		From last year	
	2019/20	2020/21	Aug	Sep	2019/20	2020/21	Aug	Sep	2019/20	2020/21	Aug	Sep	MMT	Percent	MMT	Percent
World	4.04	4.25	4.25	4.33	3.04	3.37	3.21	3.18	12.26	14.30	13.66	13.74	0.08	0.62	-0.56	-3.89
United States	0.13	0.13	0.15	0.15	2.16	2.19	2.09	2.09	0.27	0.29	0.31	0.31	0.00	0.00	0.01	4.78
Total Foreign	3.91	4.11	4.10	4.18	3.07	3.41	3.25	3.21	11.99	14.00	13.35	13.43	0.08	0.63	-0.57	-4.07
European Union	2.21	2.22	2.18	2.18	3.80	4.10	4.11	4.11	8.40	9.12	8.95	8.95	0.00	0.00	-0.17	-1.86
Former Soviet Union - 12																
Russia	0.82	0.97	1.03	1.03	1.73	2.44	1.95	1.95	1.42	2.38	2.00	2.00	0.00	0.00	-0.38	-15.82
Belarus	0.32	0.30	0.25	0.33	2.37	3.00	2.80	2.46	0.76	0.90	0.70	0.80	0.10	14.29	-0.10	-11.11
Ukraine	0.12	0.14	0.18	0.18	2.90	3.28	3.29	3.29	0.34	0.46	0.58	0.58	0.00	0.00	0.12	25.27
Kazakhstan	0.02	0.02	0.04	0.04	1.00	1.25	1.00	1.00	0.02	0.03	0.04	0.04	0.00	0.00	0.01	33.33
Turkey	0.11	0.11	0.12	0.12	2.91	2.91	2.87	2.87	0.32	0.32	0.33	0.33	0.00	0.00	0.01	3.13
Canada	0.10	0.15	0.16	0.16	3.23	3.19	2.81	2.69	0.33	0.49	0.45	0.43	-0.02	-4.44	-0.06	-11.89
South America																
Chile	0.00	0.00	0.00	0.00	5.00	5.00	5.00	5.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Argentina	0.11	0.09	0.07	0.07	2.00	1.50	2.00	2.00	0.22	0.14	0.13	0.13	0.00	3.08	0.00	-0.74
Other Europe																
Bosnia and Herzegovina	0.00	0.00	0.00	0.00	2.50	3.67	3.00	3.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	-18.18
Switzerland	0.00	0.00	0.00	0.00	5.50	5.50	5.50	5.50	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Serbia	0.00	0.00	0.00	0.00	2.50	2.50	2.50	2.50	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Australia	0.04	0.04	0.04	0.04	0.68	0.68	0.68	0.68	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
Others	0.04	0.04	0.04	0.04	2.51	2.48	2.50	2.50	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.92

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	40.53	40.99	41.77	42.07	1.44	1.52	1.55	1.56	58.28	62.24	64.63	65.77	1.14	1.76	3.53	5.68
United States	1.89	2.06	2.34	2.64	4.58	4.59	4.44	4.37	8.67	9.47	10.40	11.54	1.14	10.96	2.07	21.80
Total Foreign	38.64	38.93	39.43	39.43	1.28	1.36	1.38	1.38	49.61	52.76	54.23	54.23	0.00	0.00	1.47	2.78
Africa																
Nigeria	5.90	5.60	5.70	5.70	1.13	1.17	1.19	1.19	6.67	6.57	6.80	6.80	0.00	0.00	0.23	3.50
Ethiopia	1.83	1.85	1.87	1.87	2.88	2.81	2.78	2.78	5.27	5.20	5.20	5.20	0.00	0.00	0.00	0.00
Sudan	6.83	7.00	7.00	7.00	0.54	0.71	0.71	0.71	3.71	5.00	5.00	5.00	0.00	0.00	0.00	0.00
Burkina Faso	1.89	1.80	1.80	1.80	0.99	0.87	0.94	0.94	1.87	1.56	1.70	1.70	0.00	0.00	0.14	8.97
Mali	1.50	1.83	1.50	1.50	1.01	0.98	1.00	1.00	1.51	1.80	1.50	1.50	0.00	0.00	-0.30	-16.71
Niger	3.75	3.70	3.70	3.70	0.51	0.52	0.51	0.51	1.90	1.92	1.90	1.90	0.00	0.00	-0.02	-1.14
Cameroon	0.73	0.74	0.74	0.74	1.67	1.62	1.62	1.62	1.22	1.20	1.20	1.20	0.00	0.00	0.00	0.00
Tanzania	0.65	0.70	0.70	0.70	1.13	1.07	1.07	1.07	0.73	0.75	0.75	0.75	0.00	0.00	0.00	0.00
Egypt	0.14	0.14	0.14	0.14	5.36	5.36	5.36	5.36	0.75	0.75	0.75	0.75	0.00	0.00	0.00	0.00
Uganda	0.42	0.43	0.43	0.43	0.95	0.94	0.94	0.94	0.40	0.40	0.40	0.40	0.00	0.00	0.00	0.00
Ghana	0.30	0.25	0.25	0.25	1.15	1.42	1.12	1.12	0.35	0.36	0.28	0.28	0.00	0.00	-0.08	-21.35
Mozambique	0.30	0.30	0.25	0.25	1.08	0.97	0.70	0.70	0.33	0.29	0.18	0.18	0.00	0.00	-0.12	-39.66
South Africa	0.04	0.05	0.05	0.05	3.67	4.18	3.78	3.78	0.16	0.21	0.17	0.17	0.00	0.00	-0.04	-17.07
Mexico	1.38	1.29	1.42	1.42	3.14	3.10	3.31	3.31	4.33	4.00	4.70	4.70	0.00	0.00	0.70	17.50
South America																
Argentina	0.58	0.89	0.95	0.95	4.35	3.84	4.37	4.37	2.50	3.40	4.15	4.15	0.00	0.00	0.75	22.06
Brazil	0.84	0.88	0.90	0.90	2.99	3.12	3.00	3.00	2.50	2.73	2.70	2.70	0.00	0.00	-0.03	-1.17
South Asia																
India	4.82	4.24	4.80	4.80	0.99	1.13	0.96	0.96	4.77	4.78	4.60	4.60	0.00	0.00	-0.18	-3.77
Pakistan	0.24	0.25	0.26	0.26	0.58	0.58	0.59	0.59	0.14	0.15	0.15	0.15	0.00	0.00	0.01	3.45
China	0.75	0.73	0.73	0.73	4.80	4.86	4.93	4.93	3.60	3.55	3.60	3.60	0.00	0.00	0.05	1.41
Australia	0.20	0.51	0.53	0.53	1.46	2.65	3.02	3.02	0.30	1.35	1.60	1.60	0.00	0.00	0.25	18.52
European Union	0.16	0.19	0.17	0.17	5.30	5.20	5.59	5.59	0.85	1.00	0.95	0.95	0.00	0.00	-0.05	-5.28
Others	5.40	5.57	5.56	5.56	1.07	1.04	1.07	1.07	5.78	5.80	5.96	5.96	0.00	0.00	0.16	2.71

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	160.43	163.26	163.05	163.61	4.64	4.63	4.65	4.63	498.29	506.23	507.45	507.95	0.50	0.10	1.71	0.34
United States	1.00	1.21	1.06	1.01	8.38	8.54	8.45	8.55	5.88	7.23	6.27	6.05	-0.22	-3.46	-1.18	-16.29
Total Foreign	159.43	162.05	161.99	162.60	4.61	4.60	4.62	4.61	492.41	499.01	501.18	501.90	0.71	0.14	2.89	0.58
East Asia																
China	29.69	30.08	30.00	30.00	7.06	7.04	7.10	7.10	146.73	148.30	149.00	149.00	0.00	0.00	0.70	0.47
Japan	1.54	1.53	1.53	1.53	6.78	6.78	6.83	6.83	7.61	7.57	7.58	7.58	0.00	0.00	0.01	0.17
Korea, South	0.73	0.73	0.72	0.73	6.87	6.49	7.01	7.01	3.74	3.51	3.77	3.82	0.05	1.22	0.31	8.81
Korea, North	0.48	0.49	0.50	0.50	5.89	4.44	4.18	4.18	1.82	1.40	1.36	1.36	0.00	0.00	-0.04	-2.72
South Asia																
India	43.66	45.00	44.40	45.00	4.08	4.08	4.09	4.07	118.87	122.27	121.00	122.00	1.00	0.83	-0.27	-0.22
Bangladesh	11.83	11.50	11.68	11.68	4.55	4.51	4.66	4.66	35.85	34.60	36.25	36.25	0.00	0.00	1.65	4.77
Pakistan	3.03	3.38	3.30	3.30	3.67	3.63	3.73	3.73	7.41	8.18	8.20	8.20	0.00	0.00	0.02	0.20
Nepal	1.46	1.47	1.48	1.48	3.80	3.78	3.77	3.77	3.70	3.70	3.70	3.70	0.00	0.00	0.00	0.11
Sri Lanka	0.97	1.09	1.10	1.10	4.85	4.66	4.64	4.64	3.21	3.45	3.47	3.47	0.00	0.00	0.02	0.52
Southeast Asia																
Indonesia	11.60	11.80	11.80	11.80	4.71	4.71	4.72	4.72	34.70	35.30	35.35	35.35	0.00	0.00	0.05	0.14
Vietnam	7.38	7.36	7.35	7.35	5.88	5.96	5.90	5.90	27.10	27.44	27.10	27.10	0.00	0.00	-0.34	-1.23
Thailand	9.89	10.40	10.50	10.50	2.70	2.74	2.81	2.81	17.66	18.83	19.50	19.50	0.00	0.00	0.67	3.56
Burma	6.90	6.90	7.00	7.00	2.86	2.85	2.86	2.86	12.65	12.60	12.80	12.80	0.00	0.00	0.20	1.59
Philippines	4.64	4.76	4.75	4.75	4.08	4.14	4.11	4.11	11.93	12.42	12.30	12.30	0.00	0.00	-0.12	-0.93
Cambodia	3.26	3.27	3.30	3.30	2.89	2.90	2.93	2.93	5.74	5.78	5.90	5.90	0.00	0.00	0.12	2.02
Laos	0.84	0.96	0.97	0.97	3.01	3.14	3.19	3.19	1.60	1.90	1.95	1.95	0.00	0.00	0.05	2.63
Malaysia	0.70	0.68	0.68	0.68	4.01	4.07	4.07	4.07	1.83	1.80	1.80	1.80	0.00	0.00	0.00	0.00
South America																
Brazil	1.67	1.68	1.70	1.70	6.71	7.00	6.94	6.94	7.60	8.00	8.02	8.02	0.00	0.00	0.02	0.29
Peru	0.42	0.42	0.43	0.43	7.68	7.76	7.92	7.92	2.20	2.25	2.35	2.35	0.00	0.00	0.10	4.44
Africa																
Egypt	0.76	0.70	0.60	0.50	8.20	8.28	8.33	8.41	4.30	4.00	3.45	2.90	-0.55	-15.94	-1.10	-27.50
Madagascar	1.40	1.40	1.40	1.40	3.02	2.86	2.57	2.57	2.71	2.56	2.30	2.30	0.00	0.00	-0.26	-10.00
Nigeria	3.50	3.60	3.65	3.65	2.29	2.16	2.17	2.17	5.04	4.89	5.00	5.00	0.00	0.00	0.11	2.25
European Union	0.42	0.42	0.41	0.41	6.86	6.70	6.71	6.71	1.99	1.95	1.89	1.89	0.00	0.00	-0.06	-3.02
Iran	0.58	0.58	0.58	0.58	5.25	5.27	5.27	5.27	1.99	2.00	2.00	2.00	0.00	0.00	0.00	0.00
Others	12.09	11.87	12.18	12.28	3.07	3.10	3.13	3.13	24.45	24.31	25.13	25.35	0.22	0.86	1.04	4.27

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World Total	--	--	--	--	--	--	--	--	580.51	601.14	629.52	629.16	-0.36	-0.06	28.02	4.66
Total Foreign	--	--	--	--	--	--	--	--	473.53	478.79	501.38	499.85	-1.53	-0.30	21.06	4.40
Oilseed, Copra	--	--	--	--	--	--	--	--	5.66	5.56	5.82	5.82	0.00	0.00	0.26	4.62
Oilseed, Palm Kernel	--	--	--	--	--	--	--	--	19.29	19.06	19.93	19.93	0.00	0.00	0.87	4.57
Major Oilseeds	245.84	251.74	260.00	259.98	2.26	2.29	2.32	2.32	555.56	576.52	603.78	603.41	-0.36	-0.06	26.90	4.67
United States	36.83	38.72	41.26	40.94	2.91	3.16	3.11	3.16	106.98	122.35	128.15	129.31	1.16	0.91	6.96	5.69
Foreign Oilseeds	209.01	213.03	218.74	219.04	2.15	2.13	2.17	2.16	448.58	454.17	475.63	474.10	-1.53	-0.32	19.94	4.39
South America	63.80	65.35	68.23	68.26	3.18	3.18	3.27	3.27	203.09	208.08	222.90	222.92	0.02	0.01	14.85	7.14
Brazil	38.77	40.17	42.11	42.11	3.45	3.52	3.54	3.54	133.78	141.26	148.90	148.90	0.00	0.00	7.64	5.41
Argentina	19.03	19.13	19.59	19.62	2.82	2.67	2.92	2.91	53.64	51.05	57.13	57.16	0.02	0.04	6.10	11.95
Paraguay	3.37	3.24	3.54	3.54	3.02	3.09	3.00	3.00	10.21	10.02	10.62	10.62	0.00	0.00	0.60	6.00
Bolivia	1.49	1.51	1.53	1.53	2.00	2.09	2.07	2.07	2.99	3.15	3.16	3.16	0.00	0.00	0.01	0.44
Uruguay	0.98	1.17	1.32	1.32	2.14	1.92	2.06	2.06	2.09	2.24	2.72	2.72	0.00	0.00	0.48	21.48
China	24.88	25.92	25.35	25.35	2.50	2.56	2.55	2.55	62.20	66.26	64.60	64.60	0.00	0.00	-1.66	-2.50
South Asia	41.30	43.41	42.62	42.87	0.96	0.94	0.98	0.98	39.47	40.96	41.83	42.16	0.33	0.78	1.20	2.92
India	37.85	40.15	39.55	39.80	0.94	0.94	0.97	0.98	35.62	37.85	38.50	38.83	0.33	0.84	0.98	2.58
Pakistan	3.08	2.90	2.70	2.70	1.10	0.92	1.07	1.07	3.40	2.66	2.89	2.89	0.00	0.00	0.23	8.53
European Union	10.65	10.80	10.94	10.93	2.62	2.61	2.78	2.76	27.94	28.21	30.37	30.17	-0.20	-0.67	1.96	6.95
United Kingdom	0.50	0.38	0.32	0.32	3.38	2.77	3.41	3.41	1.68	1.05	1.08	1.08	0.00	0.00	0.03	2.38
Former Soviet Union - 12	26.07	25.72	27.03	27.03	1.96	1.73	1.91	1.91	51.10	44.52	51.63	51.63	0.00	0.00	7.12	15.98
Russia	12.56	12.50	13.80	13.80	1.73	1.61	1.66	1.66	21.70	20.14	22.85	22.85	0.00	0.00	2.71	13.44
Ukraine	9.70	9.65	9.48	9.48	2.52	2.06	2.51	2.51	24.46	19.85	23.80	23.80	0.00	0.00	3.95	19.90
Uzbekistan	1.02	0.99	1.00	1.00	1.39	1.43	1.31	1.31	1.43	1.42	1.30	1.30	0.00	0.00	-0.12	-8.18
Canada	10.76	10.41	10.83	10.93	2.40	2.49	2.05	1.83	25.82	25.95	22.16	19.95	-2.21	-9.95	-6.00	-23.11
Africa	22.75	22.28	23.76	23.57	1.03	1.05	1.02	1.03	23.52	23.40	24.20	24.24	0.04	0.16	0.85	3.61
Nigeria	4.32	4.62	4.97	4.97	1.38	1.22	1.25	1.25	5.96	5.65	6.20	6.20	0.00	0.00	0.55	9.73
South Africa	1.27	1.37	1.45	1.45	1.70	2.01	1.87	1.87	2.16	2.75	2.71	2.71	0.00	0.00	-0.04	-1.49
Tanzania	1.60	1.45	1.60	1.60	0.85	0.82	0.85	0.85	1.36	1.19	1.36	1.36	0.00	0.00	0.17	14.27
Southeast Asia	3.12	3.25	3.20	3.20	1.38	1.36	1.37	1.37	4.30	4.41	4.38	4.38	0.00	0.00	-0.04	-0.79
Burma	1.87	2.03	2.04	2.04	1.18	1.17	1.19	1.19	2.21	2.37	2.42	2.42	0.00	0.00	0.04	1.81
Indonesia	0.95	0.94	0.89	0.89	1.55	1.54	1.55	1.55	1.47	1.45	1.39	1.39	0.00	0.00	-0.06	-4.15
Australia	2.12	2.73	3.53	3.63	1.19	1.81	1.65	1.74	2.53	4.93	5.80	6.29	0.49	8.45	1.36	27.63
Turkey	1.42	1.18	1.31	1.31	2.33	2.46	2.49	2.49	3.31	2.89	3.27	3.27	0.00	0.00	0.38	13.06
Others	1.65	1.61	1.64	1.65	2.19	2.19	2.08	2.07	3.62	3.52	3.41	3.41	0.00	0.09	-0.11	-3.07

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	122.69	127.82	132.52	132.42	2.77	2.84	2.89	2.90	339.73	363.27	383.63	384.42	0.79	0.21	21.15	5.82
United States	30.33	33.31	35.09	34.98	3.19	3.38	3.36	3.40	96.67	112.55	118.08	119.04	0.96	0.81	6.49	5.77
Total Foreign	92.37	94.51	97.43	97.44	2.63	2.65	2.73	2.72	243.07	250.72	265.55	265.38	-0.17	-0.06	14.66	5.85
South America																
Brazil	36.90	38.60	40.40	40.40	3.48	3.55	3.56	3.56	128.50	137.00	144.00	144.00	0.00	0.00	7.00	5.11
Argentina	16.70	16.60	17.20	17.20	2.92	2.77	3.02	3.02	48.80	46.00	52.00	52.00	0.00	0.00	6.00	13.04
Paraguay	3.30	3.15	3.45	3.45	3.06	3.14	3.04	3.04	10.10	9.90	10.50	10.50	0.00	0.00	0.60	6.06
Bolivia	1.36	1.39	1.40	1.40	2.08	2.17	2.14	2.14	2.83	3.00	3.00	3.00	0.00	0.00	0.00	0.00
Uruguay	0.92	1.10	1.25	1.25	2.17	1.93	2.08	2.08	1.99	2.13	2.60	2.60	0.00	0.00	0.48	22.35
East Asia																
China	9.30	9.87	9.60	9.60	1.95	1.99	1.98	1.98	18.10	19.60	19.00	19.00	0.00	0.00	-0.60	-3.06
Korea, South	0.06	0.06	0.06	0.06	1.81	1.47	1.71	1.71	0.11	0.08	0.09	0.09	0.00	0.00	0.01	16.05
Korea, North	0.16	0.16	0.15	0.17	1.70	1.40	1.50	1.44	0.26	0.23	0.23	0.24	0.01	5.78	0.01	3.48
Japan	0.14	0.14	0.15	0.15	1.47	1.65	1.66	1.66	0.21	0.24	0.24	0.24	0.00	0.00	0.01	2.55
India	12.19	12.70	12.70	12.70	0.76	0.82	0.88	0.88	9.30	10.45	11.20	11.20	0.00	0.00	0.75	7.18
Canada	2.27	2.04	2.10	2.10	2.71	3.12	2.90	2.81	6.15	6.36	6.10	5.90	-0.20	-3.28	-0.46	-7.22
Former Soviet Union - 12																
Russia	2.78	2.71	2.90	2.90	1.57	1.59	1.59	1.59	4.36	4.31	4.60	4.60	0.00	0.00	0.29	6.80
Ukraine	1.96	1.46	1.40	1.40	2.29	2.05	2.43	2.43	4.50	3.00	3.40	3.40	0.00	0.00	0.40	13.33
European Union	0.90	0.94	0.98	0.98	2.90	2.74	2.87	2.90	2.62	2.58	2.80	2.83	0.03	1.07	0.26	9.90
Southeast Asia																
Indonesia	0.40	0.39	0.35	0.35	1.20	1.22	1.21	1.21	0.48	0.48	0.43	0.43	0.00	0.00	-0.05	-10.53
Vietnam	0.04	0.04	0.03	0.03	1.57	1.57	1.67	1.67	0.07	0.06	0.05	0.05	0.00	0.00	-0.01	-9.09
Thailand	0.03	0.03	0.03	0.03	1.53	1.63	1.63	1.63	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00
Burma	0.14	0.14	0.13	0.13	1.04	1.04	1.04	1.04	0.14	0.14	0.14	0.14	0.00	0.00	-0.01	-3.57
Serbia	0.22	0.22	0.22	0.22	2.73	2.89	2.50	2.45	0.60	0.64	0.55	0.54	-0.01	-1.82	-0.10	-14.96
Mexico	0.15	0.16	0.19	0.19	1.57	1.57	1.58	1.58	0.24	0.25	0.30	0.30	0.00	0.00	0.06	22.45
Africa																
South Africa	0.71	0.83	0.85	0.85	1.77	2.31	2.06	2.06	1.25	1.92	1.75	1.75	0.00	0.00	-0.17	-8.85
Nigeria	1.04	1.10	1.20	1.20	1.11	0.95	1.04	1.04	1.15	1.05	1.25	1.25	0.00	0.00	0.20	19.05
Zambia	0.20	0.19	0.19	0.19	1.43	1.50	1.50	1.50	0.28	0.29	0.29	0.29	0.00	0.00	0.00	0.00
Uganda	0.05	0.05	0.05	0.05	0.60	0.60	0.60	0.60	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
Middle East																
Iran	0.07	0.07	0.07	0.07	2.43	2.41	2.29	2.29	0.17	0.17	0.16	0.16	0.00	0.00	-0.01	-5.33
Turkey	0.03	0.03	0.03	0.03	3.89	3.79	3.67	3.67	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00
Others	0.35	0.36	0.36	0.36	1.95	1.94	1.93	1.93	0.69	0.70	0.69	0.69	0.00	0.00	0.00	-0.43

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	34.24	30.84	32.70	32.26	1.30	1.34	1.32	1.34	44.42	41.22	43.22	43.32	0.10	0.22	2.10	5.08
United States	4.65	3.35	4.19	4.02	1.16	1.22	1.14	1.28	5.39	4.09	4.78	5.12	0.34	7.09	1.03	25.21
Total Foreign	29.59	27.49	28.51	28.24	1.32	1.35	1.35	1.35	39.03	37.13	38.44	38.20	-0.24	-0.63	1.06	2.87
South Asia																
India	13.50	13.00	12.90	12.70	0.93	0.92	0.95	0.95	12.52	12.02	12.31	12.10	-0.21	-1.72	0.09	0.71
Pakistan	2.45	2.20	2.00	2.00	1.10	0.89	1.08	1.08	2.69	1.95	2.17	2.17	0.00	0.00	0.22	11.13
China	3.45	3.25	3.10	3.10	3.10	3.50	3.39	3.39	10.68	11.37	10.50	10.50	0.00	0.00	-0.87	-7.61
Former Soviet Union - 12																
Uzbekistan	1.01	0.98	0.98	0.98	1.36	1.41	1.28	1.28	1.37	1.37	1.25	1.25	0.00	0.00	-0.12	-8.53
Turkmenistan	0.55	0.55	0.55	0.55	0.66	0.66	0.64	0.64	0.36	0.36	0.35	0.35	0.00	0.00	-0.01	-2.22
Tajikistan	0.18	0.16	0.17	0.17	1.27	1.11	1.15	1.15	0.23	0.18	0.20	0.20	0.00	0.00	0.02	9.55
Kazakhstan	0.13	0.11	0.12	0.12	1.13	0.95	0.90	0.90	0.14	0.11	0.10	0.10	0.00	0.00	0.00	-1.90
South America																
Brazil	1.67	1.37	1.50	1.50	2.75	2.61	2.77	2.77	4.58	3.57	4.15	4.15	0.00	0.00	0.58	16.28
Argentina	0.42	0.45	0.42	0.45	0.68	0.67	0.70	0.70	0.28	0.30	0.29	0.32	0.02	7.48	0.02	5.33
Middle East																
Turkey	0.57	0.35	0.45	0.45	1.98	2.71	2.47	2.47	1.13	0.95	1.11	1.11	0.00	0.00	0.16	17.21
Syria	0.03	0.03	0.03	0.03	2.36	2.36	2.20	2.20	0.06	0.06	0.06	0.06	0.00	0.00	0.00	-6.78
Iran	0.08	0.08	0.08	0.08	1.16	1.16	1.10	1.10	0.09	0.09	0.09	0.09	0.00	0.00	-0.01	-5.38
Australia	0.06	0.28	0.48	0.58	3.12	3.06	2.78	2.46	0.19	0.84	1.32	1.41	0.09	6.81	0.57	67.90
European Union	0.35	0.34	0.32	0.31	1.81	1.58	1.78	1.74	0.64	0.54	0.57	0.54	-0.03	-5.57	0.01	0.93
Africa																
Burkina Faso	0.58	0.56	0.66	0.61	0.42	0.46	0.43	0.43	0.24	0.25	0.28	0.26	-0.02	-7.42	0.01	3.56
Mali	0.74	0.17	0.80	0.80	0.52	0.49	0.52	0.52	0.38	0.08	0.42	0.42	0.00	0.00	0.34	414.81
Cameroon	0.25	0.23	0.25	0.23	1.29	1.42	1.20	1.30	0.32	0.32	0.30	0.30	0.00	0.00	-0.02	-6.25
Cote d'Ivoire	0.41	0.45	0.46	0.46	0.66	0.61	0.61	0.61	0.27	0.27	0.28	0.28	0.00	0.00	0.01	4.07
Benin	0.67	0.62	0.65	0.62	0.71	0.78	0.71	0.69	0.47	0.48	0.46	0.43	-0.03	-7.13	-0.05	-10.23
Tanzania	0.60	0.45	0.60	0.60	0.43	0.20	0.44	0.44	0.26	0.09	0.26	0.26	0.00	0.00	0.17	186.81
Egypt	0.10	0.07	0.10	0.10	0.92	1.00	1.00	1.00	0.09	0.07	0.10	0.10	0.00	0.00	0.04	53.85
Nigeria	0.15	0.27	0.27	0.27	0.57	0.56	0.56	0.56	0.09	0.15	0.15	0.15	0.00	0.00	0.00	0.00
Uganda	0.09	0.10	0.10	0.10	1.67	1.40	1.40	1.40	0.15	0.14	0.14	0.14	0.00	0.00	0.00	0.00
Zimbabwe	0.18	0.24	0.21	0.21	0.40	0.55	0.36	0.36	0.07	0.13	0.08	0.08	0.00	0.00	-0.06	-42.86
Sudan	0.20	0.20	0.20	0.20	1.53	1.41	1.41	1.41	0.31	0.28	0.28	0.28	0.00	0.00	0.00	0.00
Mexico	0.23	0.15	0.15	0.15	2.37	2.40	2.33	2.33	0.53	0.35	0.35	0.35	0.00	0.00	0.00	0.57
Burma	0.25	0.24	0.25	0.25	1.22	1.17	1.18	1.18	0.30	0.28	0.29	0.29	0.00	0.00	0.01	3.57
Others	0.74	0.64	0.73	0.64	0.80	0.86	0.78	0.80	0.59	0.55	0.57	0.51	-0.06	-10.00	-0.04	-6.73

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	28.02	29.71	29.41	29.79	1.73	1.67	1.70	1.70	48.41	49.66	50.01	50.53	0.52	1.04	0.87	1.76
United States	0.56	0.65	0.64	0.62	4.41	4.25	4.69	4.65	2.48	2.78	3.01	2.88	-0.13	-4.32	0.10	3.52
Total Foreign	27.46	29.06	28.77	29.17	1.67	1.61	1.63	1.63	45.93	46.88	47.00	47.65	0.65	1.38	0.78	1.65
China	4.63	4.75	4.75	4.75	3.78	3.79	3.83	3.83	17.52	17.99	18.20	18.20	0.00	0.00	0.21	1.15
Africa																
Nigeria	3.13	3.25	3.50	3.50	1.51	1.37	1.37	1.37	4.72	4.45	4.80	4.80	0.00	0.00	0.35	7.87
Sudan	3.13	3.00	3.00	3.00	0.90	0.83	0.83	0.83	2.83	2.50	2.50	2.50	0.00	0.00	0.00	0.00
Senegal	1.11	1.23	1.20	1.20	1.28	1.47	1.29	1.42	1.42	1.80	1.55	1.70	0.15	9.68	-0.10	-5.40
Cameroon	0.43	0.43	0.43	0.43	1.40	1.40	1.40	1.40	0.60	0.60	0.60	0.60	0.00	0.00	0.00	0.00
Ghana	0.33	0.33	0.33	0.33	1.36	1.36	1.36	1.36	0.45	0.45	0.45	0.45	0.00	0.00	0.00	0.00
Chad	0.79	0.80	0.80	0.80	1.14	1.13	1.13	1.13	0.90	0.90	0.90	0.90	0.00	0.00	0.00	0.00
Malawi	0.40	0.40	0.40	0.40	0.88	0.88	0.88	0.88	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00
Congo (Kinshasa)	0.50	0.50	0.50	0.50	0.92	0.90	0.90	0.90	0.46	0.45	0.45	0.45	0.00	0.00	0.00	0.00
Niger	0.90	0.92	0.92	0.92	0.60	0.60	0.60	0.60	0.54	0.55	0.55	0.55	0.00	0.00	0.00	0.00
Mali	0.45	0.43	0.43	0.43	0.82	1.00	1.00	1.00	0.37	0.43	0.43	0.43	0.00	0.00	0.00	0.00
Uganda	0.43	0.43	0.43	0.43	0.71	0.71	0.71	0.71	0.30	0.30	0.30	0.30	0.00	0.00	0.00	0.00
Burkina Faso	0.49	0.49	0.50	0.50	0.81	0.82	0.80	0.80	0.40	0.40	0.40	0.40	0.00	0.00	0.00	0.00
Guinea	0.91	0.90	0.90	0.90	1.05	1.00	1.00	1.00	0.96	0.90	0.90	0.90	0.00	0.00	0.00	0.00
Egypt	0.06	0.06	0.06	0.06	3.20	3.20	3.20	3.20	0.21	0.21	0.21	0.21	0.00	0.00	0.00	0.00
Central African Republic	0.10	0.10	0.10	0.10	1.50	1.50	1.50	1.50	0.15	0.15	0.15	0.15	0.00	0.00	0.00	0.00
South Africa	0.04	0.04	0.04	0.04	1.76	2.00	2.00	2.00	0.07	0.08	0.08	0.08	0.00	0.00	0.00	0.00
Mozambique	0.38	0.38	0.38	0.38	0.34	0.34	0.34	0.34	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00
Cote d'Ivoire	0.15	0.15	0.15	0.15	1.45	1.45	1.45	1.45	0.21	0.21	0.21	0.21	0.00	0.00	0.00	0.00
Benin	0.19	0.19	0.19	0.19	0.92	0.92	0.92	0.92	0.18	0.18	0.18	0.18	0.00	0.00	0.00	0.00
South Asia																
India	4.83	6.00	5.50	5.90	1.30	1.12	1.15	1.15	6.26	6.70	6.30	6.80	0.50	7.94	0.10	1.49
Pakistan	0.09	0.10	0.10	0.10	0.98	0.92	0.92	0.92	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00
Southeast Asia																
Indonesia	0.55	0.55	0.54	0.54	1.80	1.78	1.78	1.78	0.99	0.97	0.96	0.96	0.00	0.00	-0.01	-1.03
Burma	0.89	1.06	1.06	1.06	1.55	1.48	1.51	1.51	1.38	1.56	1.60	1.60	0.00	0.00	0.04	2.43
Vietnam	0.17	0.17	0.16	0.16	2.50	2.50	2.50	2.50	0.43	0.41	0.40	0.40	0.00	0.00	-0.01	-3.15
Thailand	0.02	0.02	0.02	0.02	1.67	1.67	1.67	1.67	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00
South America																
Argentina	0.37	0.39	0.35	0.35	3.50	3.32	4.00	4.00	1.29	1.28	1.40	1.40	0.00	0.00	0.12	9.38
Brazil	0.16	0.17	0.18	0.18	3.93	3.88	3.89	3.89	0.63	0.64	0.70	0.70	0.00	0.00	0.06	9.38
Mexico	0.05	0.06	0.05	0.05	1.74	1.73	1.74	1.74	0.08	0.10	0.09	0.09	0.00	0.00	-0.01	-9.80
Others	1.80	1.80	1.81	1.81	1.12	1.15	1.16	1.16	2.00	2.07	2.10	2.10	0.00	0.00	0.03	1.45

Table 14 Sunflowerseed Area, Yield, and Production

Country / Region	Area (Million hectares)				Yield (Metric tons per hectare)				Production (Million metric tons)				Change in Production			
	2019/20	Prel. 2020/21	2021/22 Proj. Aug	Sep	2019/20	Prel. 2020/21	2021/22 Proj. Aug	Sep	2019/20	Prel. 2020/21	2021/22 Proj. Aug	Sep	From last month MMT	Percent	From last year MMT	Percent
World	26.03	27.26	28.22	28.27	2.07	1.84	2.02	2.02	53.92	50.07	56.94	56.97	0.03	0.06	6.90	13.77
United States	0.51	0.67	0.53	0.53	1.75	2.01	1.74	1.74	0.89	1.35	0.93	0.93	0.00	0.00	-0.43	-31.56
Total Foreign	25.52	26.58	27.69	27.74	2.08	1.83	2.02	2.02	53.04	48.72	56.01	56.04	0.03	0.06	7.32	15.03
Former Soviet Union - 12																
Russia	8.36	8.35	9.30	9.30	1.83	1.59	1.67	1.67	15.31	13.27	15.50	15.50	0.00	0.00	2.23	16.81
Ukraine	6.40	7.00	7.00	7.00	2.58	2.01	2.50	2.50	16.50	14.10	17.50	17.50	0.00	0.00	3.40	24.11
Kazakhstan	0.82	0.69	0.92	0.92	1.03	1.23	1.20	1.20	0.84	0.84	1.10	1.10	0.00	0.00	0.26	30.33
European Union	4.32	4.35	4.41	4.41	2.19	2.03	2.27	2.27	9.44	8.85	10.00	10.00	0.00	0.00	1.15	12.99
South America																
Argentina	1.53	1.67	1.60	1.60	2.11	2.05	2.13	2.13	3.24	3.43	3.40	3.40	0.00	0.00	-0.03	-0.87
Uruguay	0.06	0.07	0.07	0.07	1.67	1.69	1.69	1.69	0.10	0.11	0.12	0.12	0.00	0.00	0.01	4.55
Bolivia	0.14	0.13	0.13	0.13	1.19	1.20	1.30	1.30	0.16	0.15	0.16	0.16	0.00	0.00	0.01	9.33
Brazil	0.05	0.03	0.03	0.03	1.60	1.61	1.63	1.63	0.08	0.05	0.05	0.05	0.00	0.00	0.00	-2.00
Paraguay	0.03	0.03	0.03	0.03	1.39	1.53	1.55	1.55	0.04	0.05	0.05	0.05	0.00	0.00	0.00	4.35
China	0.92	1.25	1.10	1.10	2.64	2.64	2.64	2.64	2.42	3.30	2.90	2.90	0.00	0.00	-0.40	-12.12
South Asia																
India	0.23	0.25	0.25	0.30	0.61	0.76	0.75	0.75	0.14	0.19	0.19	0.23	0.04	19.68	0.04	21.62
Pakistan	0.14	0.15	0.15	0.15	1.04	1.07	1.10	1.10	0.15	0.16	0.17	0.17	0.00	0.00	0.01	3.13
Middle East																
Turkey	0.73	0.72	0.76	0.76	2.40	2.17	2.38	2.38	1.75	1.56	1.80	1.80	0.00	0.00	0.24	15.38
Iran	0.04	0.04	0.04	0.04	1.08	1.08	1.00	1.00	0.04	0.04	0.04	0.04	0.00	0.00	0.00	2.33
Israel	0.00	0.00	0.00	0.00	5.00	9.00	7.00	7.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	-22.22
Africa																
Egypt	0.01	0.01	0.01	0.01	2.38	2.38	2.38	2.38	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
Morocco	0.02	0.02	0.02	0.02	1.32	1.25	1.25	1.25	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
South Africa	0.50	0.48	0.55	0.55	1.58	1.50	1.56	1.56	0.79	0.72	0.85	0.85	0.00	0.00	0.13	18.06
Burma	0.60	0.60	0.60	0.60	0.65	0.65	0.65	0.65	0.39	0.39	0.39	0.39	0.00	0.00	0.00	0.00
Canada	0.03	0.05	0.03	0.03	2.17	2.24	1.83	1.67	0.06	0.10	0.06	0.05	-0.01	-9.09	-0.05	-50.50
Australia	0.01	0.02	0.02	0.02	1.22	1.50	1.31	1.31	0.01	0.03	0.02	0.02	0.00	0.00	-0.01	-22.22
Others	0.60	0.70	0.68	0.68	2.55	1.90	2.45	2.45	1.54	1.33	1.67	1.67	0.00	0.00	0.34	25.36

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MMT	Percent	MMT	Percent
World	34.86	36.12	37.15	37.25	1.98	2.00	1.88	1.83	69.08	72.29	69.97	68.17	-1.80	-2.57	-4.12	-5.69
United States	0.78	0.73	0.80	0.80	2.00	2.16	1.69	1.69	1.55	1.58	1.34	1.34	0.00	0.00	-0.23	-14.72
Total Foreign	34.08	35.39	36.35	36.45	1.98	2.00	1.89	1.83	67.52	70.71	68.63	66.83	-1.80	-2.62	-3.88	-5.49
European Union	5.08	5.17	5.23	5.23	3.00	3.15	3.25	3.21	15.24	16.25	17.00	16.80	-0.20	-1.18	0.55	3.40
United Kingdom	0.50	0.38	0.32	0.32	3.38	2.77	3.41	3.41	1.68	1.05	1.08	1.08	0.00	0.00	0.03	2.38
Switzerland	0.02	0.02	0.02	0.02	3.14	3.14	3.14	3.14	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Canada	8.46	8.33	8.70	8.80	2.32	2.34	1.84	1.59	19.61	19.49	16.00	14.00	-2.00	-12.50	-5.49	-28.15
China	6.58	6.80	6.80	6.80	2.05	2.06	2.06	2.06	13.49	14.00	14.00	14.00	0.00	0.00	0.00	0.00
South Asia																
India	7.10	8.20	8.20	8.20	1.04	1.04	1.04	1.04	7.40	8.50	8.50	8.50	0.00	0.00	0.00	0.00
Pakistan	0.40	0.45	0.45	0.45	1.20	1.02	1.03	1.03	0.48	0.46	0.47	0.47	0.00	0.00	0.01	1.09
Bangladesh	0.25	0.25	0.25	0.25	0.92	0.92	0.92	0.92	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00
Former Soviet Union - 12																
Russia	1.42	1.45	1.60	1.60	1.44	1.77	1.72	1.72	2.04	2.57	2.75	2.75	0.00	0.00	0.18	7.13
Ukraine	1.34	1.19	1.08	1.08	2.59	2.31	2.70	2.70	3.47	2.75	2.90	2.90	0.00	0.00	0.15	5.45
Belarus	0.34	0.35	0.32	0.32	1.68	1.57	1.59	1.59	0.58	0.55	0.50	0.50	0.00	0.00	-0.05	-9.09
Kazakhstan	0.27	0.12	0.11	0.11	0.90	1.23	1.00	1.00	0.24	0.15	0.11	0.11	0.00	0.00	-0.04	-28.10
Australia	2.03	2.40	3.00	3.00	1.13	1.67	1.47	1.60	2.30	4.00	4.40	4.80	0.40	9.09	0.80	20.00
South America																
Chile	0.04	0.04	0.04	0.04	4.05	3.81	4.00	4.00	0.15	0.14	0.14	0.14	0.00	0.00	0.00	-0.71
Paraguay	0.04	0.05	0.04	0.04	1.71	1.41	1.45	1.45	0.06	0.07	0.06	0.06	0.00	0.00	0.00	-1.54
Ethiopia	0.02	0.03	0.03	0.03	1.83	1.80	1.80	1.80	0.04	0.05	0.05	0.05	0.00	0.00	0.00	0.00
Others	0.20	0.17	0.18	0.18	2.30	2.28	2.10	2.10	0.45	0.40	0.38	0.38	0.00	0.00	-0.02	-4.79

World and Selected Countries and Regions

Table 16 Copra, Palm Kernel, and Palm Oil Production

Country / Region	Production (Million metric tons)				Change in Production			
	2019/20	Prel.	2021/22 Proj.		From last month		From last year	
		2020/21	Aug	Sep	MMT	Percent	MMT	Percent
Oilseed, Copra								
Philippines	2.50	2.40	2.60	2.60	0.00	0.00	0.20	8.33
Indonesia	1.66	1.67	1.68	1.68	0.00	0.00	0.01	0.60
India	0.75	0.75	0.79	0.79	0.00	0.00	0.04	5.33
Vietnam	0.28	0.28	0.29	0.29	0.00	0.00	0.01	3.57
Papua New Guinea	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00
Thailand	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Sri Lanka	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Mexico	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00
Solomon Islands	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
Cote d'Ivoire	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
World	5.66	5.56	5.82	5.82	0.00	0.00	0.26	4.68
Oilseed, Palm Kernel								
Indonesia	11.25	11.46	11.70	11.70	0.00	0.00	0.24	2.09
Malaysia	4.75	4.35	4.80	4.80	0.00	0.00	0.45	10.34
Nigeria	0.88	0.82	0.90	0.90	0.00	0.00	0.08	9.76
Thailand	0.75	0.80	0.85	0.85	0.00	0.00	0.05	6.25
Colombia	0.30	0.29	0.30	0.30	0.00	0.00	0.01	3.45
Guatemala	0.17	0.17	0.18	0.18	0.00	0.00	0.01	5.88
Papua New Guinea	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00
Cameroon	0.15	0.15	0.15	0.15	0.00	0.00	0.00	0.00
Brazil	0.14	0.14	0.15	0.15	0.00	0.00	0.00	0.00
Ecuador	0.11	0.13	0.12	0.12	0.00	0.00	-0.01	-7.69
World	19.29	19.06	19.93	19.93	0.00	0.00	0.87	4.56
Oil, Palm								
Indonesia	42.50	43.50	44.50	44.50	0.00	0.00	1.00	2.30
Malaysia	19.26	17.80	19.70	19.70	0.00	0.00	1.90	10.67
Thailand	2.65	2.85	3.12	3.12	0.00	0.00	0.28	9.86
Colombia	1.51	1.56	1.65	1.65	0.00	0.00	0.09	5.77
Nigeria	1.14	1.28	1.40	1.40	0.00	0.00	0.13	10.24
Guatemala	0.86	0.87	0.88	0.88	0.00	0.00	0.02	2.33
Papua New Guinea	0.56	0.56	0.57	0.57	0.00	0.00	0.00	0.00
Brazil	0.54	0.55	0.55	0.55	0.00	0.00	0.00	0.00
Ecuador	0.46	0.54	0.55	0.55	0.00	0.00	0.01	1.85
Cote d'Ivoire	0.52	0.52	0.52	0.52	0.00	0.00	0.00	0.00
World	72.95	72.91	76.52	76.52	0.00	0.00	3.61	4.95

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			
	2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		2019/20	Prel. 2020/21	2021/22 Proj.		From last month		From last year	
			Aug	Sep			Aug	Sep			Aug	Sep	MBales	Percent	MBales	Percent
World	34.85	31.41	33.30	32.85	758	779	777	793	121.40	112.39	118.84	119.59	0.75	0.63	7.19	6.40
United States	4.65	3.35	4.19	4.02	932	950	897	1,004	19.91	14.61	17.26	18.51	1.25	7.21	3.90	26.70
Total Foreign	30.20	28.06	29.11	28.84	732	759	760	763	101.49	97.78	101.58	101.08	-0.50	-0.49	3.29	3.37
South Asia																
India	13.50	13.00	12.90	12.70	464	474	489	489	28.80	28.30	29.00	28.50	-0.50	-1.72	0.20	0.71
Pakistan	2.45	2.20	2.00	2.00	551	445	544	544	6.20	4.50	5.00	5.00	0.00	0.00	0.50	11.11
China	3.45	3.25	3.10	3.10	1,720	1,976	1,879	1,879	27.25	29.50	26.75	26.75	0.00	0.00	-2.75	-9.32
South America																
Brazil	1.67	1.37	1.50	1.50	1,802	1,708	1,814	1,814	13.78	10.75	12.50	12.50	0.00	0.00	1.75	16.28
Argentina	0.42	0.45	0.42	0.45	682	668	700	702	1.30	1.38	1.35	1.45	0.10	7.41	0.07	5.07
Paraguay	0.01	0.01	0.01	0.01	416	416	416	416	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
Africa																
Burkina Faso	0.58	0.56	0.66	0.61	330	358	338	339	0.88	0.92	1.03	0.95	-0.08	-7.32	0.04	3.83
Mali	0.74	0.17	0.80	0.80	400	376	401	404	1.35	0.29	1.48	1.48	0.00	0.00	1.19	417.54
Cote d'Ivoire	0.41	0.45	0.46	0.46	528	494	497	497	0.99	1.01	1.05	1.05	0.00	0.00	0.04	3.96
Benin	0.67	0.62	0.65	0.62	467	513	469	457	1.43	1.45	1.40	1.30	-0.10	-7.14	-0.15	-10.34
Egypt	0.10	0.07	0.10	0.10	664	720	718	718	0.31	0.22	0.33	0.33	0.00	0.00	0.12	53.49
Cameroon	0.25	0.23	0.25	0.23	562	619	523	568	0.65	0.64	0.60	0.60	0.00	0.00	-0.04	-6.25
Tanzania	0.60	0.45	0.60	0.60	216	102	218	218	0.60	0.21	0.60	0.60	0.00	0.00	0.39	185.71
Nigeria	0.15	0.27	0.27	0.27	290	282	282	282	0.20	0.35	0.35	0.35	0.00	0.00	0.00	0.00
Zimbabwe	0.18	0.24	0.21	0.21	230	318	207	207	0.19	0.35	0.20	0.20	0.00	0.00	-0.15	-42.86
Ethiopia	0.08	0.08	0.08	0.08	680	637	637	637	0.25	0.24	0.24	0.24	0.00	0.00	0.00	0.00
Former Soviet Union - 12																
Uzbekistan	1.01	0.98	0.98	0.98	754	782	711	711	3.50	3.50	3.20	3.20	0.00	0.00	-0.30	-8.57
Turkmenistan	0.55	0.55	0.55	0.55	368	368	356	356	0.92	0.92	0.90	0.90	0.00	0.00	-0.02	-2.17
Tajikistan	0.18	0.16	0.17	0.17	708	619	640	640	0.59	0.46	0.50	0.50	0.00	0.00	0.05	9.89
Kazakhstan	0.13	0.11	0.12	0.12	627	534	502	502	0.36	0.27	0.27	0.27	0.00	0.00	-0.01	-1.85
Middle East																
Turkey	0.57	0.35	0.45	0.45	1,318	1,804	1,645	1,645	3.45	2.90	3.40	3.40	0.00	0.00	0.50	17.24
Syria	0.03	0.03	0.03	0.03	1,219	1,219	1,132	1,132	0.14	0.14	0.13	0.13	0.00	0.00	-0.01	-7.14
Iran	0.08	0.08	0.08	0.08	748	748	708	708	0.28	0.28	0.26	0.26	0.00	0.00	-0.02	-5.45
Australia	0.06	0.28	0.48	0.58	2,268	2,217	2,017	1,780	0.63	2.80	4.40	4.70	0.30	6.82	1.90	67.86
Mexico	0.23	0.15	0.15	0.15	1,519	1,532	1,524	1,524	1.57	1.02	1.05	1.05	0.00	0.00	0.03	2.94
Burma	0.25	0.24	0.25	0.25	641	635	644	644	0.72	0.70	0.73	0.73	0.00	0.00	0.03	3.57
Others	1.90	1.76	1.86	1.76	591	579	570	572	5.16	4.69	4.86	4.63	-0.23	-4.63	-0.06	-1.24

World and Selected Countries and Regions

TABLE 18

The table below presents a record of the September 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 1.9 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 3.3 percent. The average difference between the September projection and the final estimate is 8.7 million tons, ranging from 0.9 million to 30.7 million tons. The September projection has been below the estimate 26 times and above 14 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	
<i>WHEAT</i>	Percent		---Million metric tons---					
	World	1.9	3.3	8.7	0.9	30.7	26	14
	U.S.	1.9	3.2	0.9	0.0	2.5	16	24
	Foreign	2.2	3.7	8.7	0.2	30.9	28	12
<i>COARSE GRAINS 2/</i>	World	2.2	3.7	17.8	0.2	50.6	30	10
	U.S.	4.2	7.1	8.0	0.2	26.0	25	15
	Foreign	2.5	4.3	15.9	1.0	59.9	29	11
<i>RICE (Milled)</i>	World	2.3	3.9	6.3	0.4	24.1	31	9
	U.S.	4.3	7.3	0.2	0.0	0.5	22	17
	Foreign	2.3	3.9	6.3	0.3	24.4	31	9
<i>SOYBEANS</i>	World	4.5	7.7	7.1	0.4	27.4	23	17
	U.S.	5.0	8.5	3.0	0.2	10.4	21	19
	Foreign	7.3	12.5	6.5	0.9	29.1	18	22
<i>COTTON</i>	---Million 480-lb. bales---							
	World	4.7	7.9	3.2	0.1	12.6	23	17
	U.S.	6.7	11.4	0.9	0.0	2.5	19	20
	Foreign	5.2	8.9	2.8	0.0	11.3	25	15
UNITED STATES	-----Million bushels-----							
	<i>CORN</i>	4.4	7.4	300	15	885	25	15
	<i>SORGHUM</i>	6.0	10.2	23	0	81	17	22
<i>BARLEY</i>	4.9	8.2	11	1	36	15	25	
<i>OATS</i>	9.6	16.3	11	0	44	6	32	

1/ Marketing years 1981/82 through 2020/21 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 2020/21.

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

September 2021

Global Market Analysis, FAS, USDA