

# World Agricultural Supply and Demand Estimates

ISSN: 1554-9089

Office of the  
Chief EconomistAgricultural Marketing Service  
Farm Service AgencyEconomic Research Service  
Foreign Agricultural Service

WASDE - 588

Approved by the World Agricultural Outlook Board

May 10, 2019

**WHEAT:** The initial outlook for 2019/20 U.S. wheat is for larger supplies, higher domestic use, lower exports, and larger stocks. Supplies are increased by 41 million bushels year to year with higher carry-in stocks and larger production. The 2019/20 U.S. wheat crop is projected at 1,897 million bushels, up less than 1 percent from last year as a higher yield more than offsets reduced harvested acreage. The all-wheat yield is projected at 48.6 bushels per acre, up 1.0 bushel from last year. The first 2019 NASS survey-based winter wheat production forecast indicated larger Hard Red Winter production more than offsetting smaller Soft Red Winter and White Wheat crops. Total 2019/20 domestic use is projected up 5 percent with increases in all usage categories. Exports are projected at 900 million bushels, down 25 million from the revised 2018/19 exports. The 2019/20 global export situation is expected to be highly competitive for the United States with all of the other major exporters projected to have larger supplies. Ending stocks for 2019/20 are projected 14 million bushels higher than last year at 1,141 million. The projected season-average farm price is \$4.70 per bushel, down from last year's estimated \$5.20 on the expectation of greater export competition and lower U.S. corn prices.

The initial outlook for 2019/20 international wheat is for larger supplies, increased trade, greater consumption, and higher ending stocks. Foreign supplies are projected to increase 38.5 million tons to 966.4 million as all of the major wheat exporters (Argentina, Australia, Canada, EU, Russia, and Ukraine) are expected to have higher production for 2019/20. The EU is projected to have the largest increase to 153.8 million tons, as it recovers from last year's drought. Russia is projected to have its second-largest wheat production on record at 77.0 million tons. Collectively, the major foreign exporters' projected output rises 33.9 million tons, up 11 percent from last year. Additionally, the Middle East region is expected to have significantly larger production with abundant rainfall as both Iran and Iraq are projected to have record output while Syria and Turkey have near-record production.

Projected 2019/20 global trade is 6.7 million tons or 4 percent higher at 184.6 million with greater exportable supplies and lower expected export prices. Russia is projected as the leading world wheat exporter for the third consecutive year with exports at 36.0 million tons, down slightly from 37.0 million for 2018/19. But all other major foreign exporters are projected to have higher exports than last year. Projected 2019/20 world consumption increases 21.6 million tons from last year to a record-large 759.5 million tons with both food, seed, and industrial use and feed use significantly higher. Global ending stocks increase 18.0 million tons or 7 percent to a record-large 293.0 million. World stocks less China are projected at 146.8 million tons, up 11.8 million from last year.

**COARSE GRAINS:** The U.S. feed-grain outlook for 2019/20 is for larger production and domestic use, lower exports, and greater ending stocks. The corn crop is projected at 15.0 billion bushels, up from last year and the second largest on record behind 2016/17 as an increase in area more than offsets a reduction in yield. The yield projection of 176.0 bushels per acre is based on a weather-adjusted trend assuming normal planting progress and summer growing season weather, estimated using the 1988-2018 time period. With beginning stocks down from a year ago, total corn supplies are forecast record high at 17.2 billion bushels.

Total U.S. corn use in 2019/20 is forecast to rise relative to a year ago as greater domestic use offsets a slight decline in exports. Food, seed, and industrial (FSI) use is projected to rise 50 million bushels to 7.0 billion. Corn used for ethanol is projected to increase 1 percent from a year ago, based on expectations of modest growth in motor gasoline consumption, a slight decline in ethanol's inclusion rate into gasoline, and larger exports. Feed and residual use is projected higher on a larger crop, lower expected prices, and continued growth in grain consuming animal units.

U.S. corn exports are forecast to decline 25 million bushels in 2019/20, despite larger world corn trade. Increased exports out of Argentina and Brazil during 2018/19 (local marketing years beginning March 2019 and

ending February 2020) are expected to limit U.S. exports during the first half of 2019/20. Combined corn exports for Ukraine and Russia in 2019/20 are projected to decline, mostly reflecting a return to normal weather for Ukraine following a bumper harvest in 2018/19.

With total U.S. corn supply rising more than use, 2019/20 U.S. ending stocks are up 390 million bushels from last year and if realized would be the highest since 1987/88. Stocks relative to use at 16.9 percent would be the highest since 2005/06. With larger stocks relative to use, the season-average farm price is projected at \$3.30 per bushel, down 20 cents from 2018/19 and the lowest since 2006/07.

The global coarse grain outlook for 2019/20 is for record production and use, and lower ending stocks. World corn production is forecast record high, with the largest increases for the United States, South Africa, Russia, Canada, India, and Brazil. Partly offsetting are smaller crops projected for China and Ukraine. Global corn use is expected to grow 1 percent, while global corn imports are projected to increase 2 percent. Notable forecast increases in corn imports include China, Iran, Kenya, Mexico, Saudi Arabia, Turkey, and Vietnam. Global corn ending stocks are down 11.2 million tons from a year ago, mostly reflecting a forecast decline for China. Outside of China, stocks are up 6.8 million tons, and if realized would be the highest since 2016/17.

For China, total coarse grain imports are forecast at 15.1 million tons, up 2.7 million from 2018/19. Corn imports are forecast to increase, based on expectations of sharply reduced sorghum imports and a wider price wedge between China's domestic and world market prices relative to a year ago, particularly in the feed deficit South.

**RICE:** The 2019/20 outlook for U.S. rice is for higher supplies, exports, domestic use, and ending stocks. For the 2018/19 market year, imports and exports are each reduced 1.0 million cwt, and the season-average farm price is lowered \$0.10 per cwt to \$12.00. U.S. 2019/20 all rice production is projected at 218.2 million cwt, down 3 percent from the previous year. Both long-grain and combined medium- and short-grain production are projected to be smaller this year. The year-over-year supply increase stems from an 82 percent increase in beginning stocks. Total U.S. rice supplies are projected to increase more than 6 percent to 299.8 million cwt.

U.S. 2019/20 total use is projected at 241.0 million cwt, up nearly 6 percent from the previous year with both domestic and residual use and exports higher. Long-grain exports are projected up 9 percent to 72.0 million cwt, and combined medium- and short-grain exports are up 7 percent to 29.0 million cwt. Both export changes are based on improved price competitiveness and larger exportable supplies. All rice ending stocks are projected at 58.8 million cwt, up 10 percent and the largest since the 1985/86 market year. The 2019/20 all rice season-average farm price is projected at \$11.20 per cwt, down \$0.80 from last year's revised price.

World rice production for 2019/20 is projected at 498.4 million tons, down fractionally from the previous year's record. China and India lead production declines with crops reduced 2.5 million tons and 1.0 million tons, respectively. Vietnam, Thailand, Bangladesh, and Indonesia have the largest production increases. Global rice consumption is projected at a record 496.1 million tons, up 4.1 million. Global exports for 2019/20 are projected at a record 47.6 million tons, up 0.9 million from the previous year. World 2019/20 ending stocks are projected at a record 172.2 million tons with China projected to hold 68 percent of global stocks.

**OILSEEDS:** The 2019/20 outlook for U.S. soybeans is for higher supplies, crush, exports, and slightly lower ending stocks compared to 2018/19. The soybean crop is projected at 4,150 million bushels, down 394 million from last year's record crop on lower harvested area and trend yields. With sharply higher beginning stocks, soybean supplies are projected at 5,165 million bushels, up 3 percent from 2018/19. Total U.S. oilseed production for 2019/20 is forecast at 124.2 million tons, down 9.6 million from 2018/19, mainly on lower soybean production. Production forecasts are also lower for canola, but higher for sunflowerseed, peanuts, and cottonseed.

The U.S. soybean crush for 2019/20 is projected at 2,115 million bushels, up from the 2018/19 forecast with higher soybean meal disappearance partly offset by lower soybean meal exports. U.S. soybean exports are forecast at 1,950 million bushels, up 175 million from the revised forecast for 2018/19. Despite limited growth in global soybean import demand, U.S. export share is expected to rise to 35 percent from the 2018/19 record low of 32 percent on higher supplies and competitive prices. U.S. ending stocks for 2019/20 are projected at 970 million bushels, down 25 million from the revised 2018/19 forecast. The 2019/20 U.S. season-average soybean price is projected at \$8.10 per bushel, down 45 cents from the 2018/19 forecast. Soybean meal prices

are forecast at \$290 per short ton, down \$15.00 from 2018/19. Soybean oil prices are forecast at 29.5 cents per pound, up 1.5 cents from 2018/19.

Global oilseed production for 2019/20 is projected at 598.0 million tons, down 2.9 million from 2018/19. Global soybean production is forecast at 355.7 million tons, down 6.4 million with lower production for the United States, Argentina, and Canada partly offset by a higher Brazilian crop. Brazil's soybean production is projected at a record 123.0 million tons, up 6.0 million on higher area and trend yield. Argentina's soybean production is forecast at 53.0 million tons, down 3.0 million from the revised 2018/19 forecast due to a lower trend yield. China's soybean production is projected 1.1 million tons higher to 17.0 million on reported higher planting intentions. Global production of high-oil content seeds (rapeseed and sunflowerseed) is projected up 1 percent from 2018/19 on increased rapeseed production for Australia and Ukraine, which is partly offset by lower production for the EU and India. Sunflowerseed crops for Turkey, Russia, and Ukraine are also lower.

Global soybean beginning stocks for 2019/20 are forecast to increase 14.1 million tons compared to 2018/19, leading to higher supply despite lower production. Global protein meal consumption is projected to increase 2 percent in 2019/20, compared to the prior 5-year average of 4 percent. Protein meal consumption growth in China is flat, largely due to suppressed feed demand from outbreaks of African Swine Fever. Global soybean exports at 151.2 million tons are also relatively flat compared to 2018/19. China's soybean imports are projected at 87.0 million tons, up only 1.0 million from the revised 2018/19 projection and significantly lower than growth seen in prior years. With stagnant trade and a 2 percent increase for crush offsetting the higher global supply, ending stocks at 113.1 million tons are forecast to decline slightly from 2018/19.

Global vegetable oil production is projected to increase 2 percent to 208.2 million tons, led by increases for palm oil production for Indonesia, soybean oil for Argentina, and sunflowerseed oil for Russia. Global consumption is projected to increase 3 percent in 2019/20, led by palm oil increases for Indonesia, China, Malaysia, and India. With higher consumption, global ending stocks are projected down 1.3 million tons to 20.1 million.

**SUGAR:** U.S. sugarbeet production for 2019/20 is projected at 33.556 million tons with yield forecast at 30.5 tons/acre. Slower-than-average planting progress in the Upper Midwest and Michigan has dampened prospects for significant gains in the national yield over last year and for harvesting prospects prior to October 1. Assuming average levels of beet pile shrink and slicing recovery, beet sugar production from this crop is projected at 4.943 million short tons, raw value (STRV). Beet sugar produced prior to October 1 is projected at 502,000 STRV, or about 123,000 STRV lower than the average of the 5 previous years. Beet sugar production for 2018/19 is estimated to fall to 4.910 million STRV, as the drop in August-September production is only marginally offset by a small increase in estimated slicing recovery. Beet sugar production for the new 2019/20 fiscal year is projected at 5.114 million STRV. The increase over the crop year total is due to a higher level of assumed 2020 August-September production. Cane sugar production for 2019/20 is projected at 4.001 million STRV. Small increases over 2018/19 are projected for both Florida and Texas. Louisiana production is projected to fall from the 2018/19 record to 1.800 million STRV as a lower sugarcane yield closer to trend more than offsets expected area expansion and less sugarcane used for seed.

Imports for 2019/20 are projected at 3.219 million STRV. Projected 2019/20 TRQ imports of specialty sugar include only the WTO minimum quantity as additional quantities have not been announced by the Secretary of Agriculture. The WTO raw sugar TRQ shortfall for 2019/20 is projected at 99,000 STRV and the shortfall for 2018/19 is increased 22,046 STRV based on FAS Post reporting. High-tier tariff imports for 2018/19 are increased to 70,000 STRV based on the pace to date. Deliveries to domestic users for 2019/20 are projected at 12.320 million STRV, an increase of 50,000 in deliveries for human consumption over 2018/19. Ending stocks for 2019/20 are residually projected at 1.484 million STRV, implying a stocks-to-use ratio of 12.01 percent. Ending stocks for 2018/19 are estimated at 1.505 million STRV, a reduction of 119,930 matching estimated supply reductions. The estimated 2018/19 stocks-to-use ratio is 12.23 percent.

Mexico sugar production for 2018/19 is increased to 6.200 million metric tons (MT) as increases to sugarcane yield and sucrose recovery more than offset an area harvested decrease. Total deliveries for human consumption are reduced by 378,883 MT to 4.236 million. Ending stocks available for the domestic market are projected to be the quantity of sugar needed at the end of September to meet projected delivery requirements until the start of the 2019/20 harvest in mid-November. Exports to the United States are unchanged but exports to third-country destinations and commitments under the CEDES export certificate program now total 1.186 million MT. Production for 2019/20 is set at 6.100 million MT; deliveries for human consumption are

projected at the same level of per capita sweetener consumption as in 2018/19; and ending stocks are calculated in the same manner as in 2018/19. Total exports are residually projected but exports to the United States are projected at the expected level of U.S. Needs as defined in the amended Suspension Agreements.

**LIVESTOCK, POULTRY, AND DAIRY:** Total U.S. red meat and poultry production for 2020 is forecast above 2019. Beef production is forecast higher primarily on higher projected steer and heifer slaughter and heavier carcass weights. Pork production in 2020 is forecast to increase as producers in late 2019 and into 2020 continue to expand hog supplies. Hog carcass weights are also forecast higher in 2020 as feed prices are forecast lower. Broiler production is expected to surpass 2019 levels as the industry responds to increased expansion of processing capacity late in 2019 and favorable feed prices. Turkey production is forecast to increase as producers respond to lower feed prices and a continued gradual recovery in prices. Egg production is forecast to increase modestly as margins improve with lower feed prices and higher egg prices during 2020.

The total red meat and poultry production forecast for 2019 is little changed from last month. Small reductions are made to beef and pork, largely due to offsetting changes in slaughter and carcass weights. Broiler production is lowered on hatchery and slaughter data to date, but the turkey forecast is raised on recent hatchery data. Egg production for 2019 is raised on continued expansion of the laying flock.

For 2020, tightness in competitor beef supplies and firm global demand are expected to support stronger U.S. beef exports relative to 2019. Pork exports are forecast to increase next year on stronger global demand for U.S. pork. Both beef and pork imports are projected to decline year over year. Broiler and turkey exports are forecast higher on expected gains in foreign demand. These forecasts assume current trade policies remain in place.

The 2019 beef export forecast is reduced from last month on slower-than-anticipated exports to key trading partners. The pork export forecast is raised as higher expected sales of pork in the second half of the year are expected to more than offset the slower-than-expected pace of exports to date. Small changes are made to beef and pork import forecasts reflecting first-quarter trade data; however, forecasts for the remainder of the year are unchanged. The broiler export forecast is reduced on lower-than-expected shipments in the first quarter. The turkey export forecast is virtually unchanged from the previous month.

For 2020, fed cattle, hog, broiler, and turkey prices are forecast above 2019 on expectations of strengthening demand. The egg prices are forecast higher as improved demand and modest growth in production are expected to support higher prices.

The 2019 cattle price forecast is lowered from the previous month on recent price weakness. However, the hog price forecast is raised each quarter on stronger prices to date and expected price support from global pork demand in the second half of the year. Broiler, turkey, and egg price forecasts are all reduced from the previous month on weaker demand expectations for the remainder of the year.

Milk production for 2020 is forecast higher than 2019. Dairy herds are expected to begin to expand as producers respond to higher milk prices and lower feed costs. Milk per cow is expected to continue increasing, and the forecast also reflects the one extra day due to leap year. Commercial exports on both fat and skim-solids bases are expected to grow in 2020 as U.S. products are expected to become more competitive due to slower growth in competitor supplies. For 2020, fat basis imports are forecast higher while skim-solids basis imports are expected to decline slightly next year. Cheese, butter, and nonfat dry milk (NDM) prices are forecast higher than the previous year on robust demand expectations. However, the whey price forecast is slightly lower on continued softness in export demand. The Class III price is forecast to increase as stronger cheese prices more than offset the weaker expected whey price. The Class IV price is expected to increase due to higher NDM and butter prices. The 2020 all milk price is forecast at \$18.80 per cwt.

The 2019 milk production forecast is reduced from the previous month on declining milk cow inventories and slow growth in milk per cow. Fat basis exports are raised from the previous month on strong cheese sales to key trading partners. The skim-solids basis export forecast is also raised on higher expected cheese and lactose sales. The fat basis import forecast is unchanged from last month while the skim-solids basis import forecast is reduced on lower imports of milk protein products. Cheese and NDM price forecasts are raised from the previous month resulting in both Class III and Class IV prices being raised. The 2019 all milk price is forecast at \$18.05 per cwt.

**COTTON:** Led by higher production, the U.S. cotton forecasts for 2019/20 includes higher exports and ending stocks. Production is forecast at 22.0 million bales, based on 13.8 million planted acres as indicated in the NASS March *Prospective Plantings* report. While planted area is expected lower in 2019/20, increased precipitation to date in the Southwest suggests abandonment will fall from 2018/19's above-average level and harvested area will rise. With harvested area up, production is projected 20 percent higher than in 2018/19. Domestic mill use is projected unchanged at 3.1 million bales, while exports are expected to rise 15 percent to 17.0 million. At 6.4 million bales, 2019/20 ending stocks are projected 1.8 million higher than the year before, equivalent to 32 percent of use. This would be the highest U.S. stocks-to-use ratio since 2008/09. The marketing year price received by producers is forecast to average 65 cents per pound, 5 cents lower than in 2018/19.

For 2018/19, U.S. cotton production is reduced marginally from last month. The export forecast is reduced 250,000 bales to 14.75 million bales as the expected U.S. share of world trade declines, and ending stocks are increased about 200,000 bales.

The world 2019/20 cotton projections show a small decline in stocks and rebounding production and consumption. With global harvested area for cotton projected at its highest in 7 years, and yields rebounding in major producing countries, production is expected to rise 7.0 million bales to a near-record 125.5 million. U.S. production is expected to rise the most, closely followed by India, while lower crops are foreseen for Australia and Brazil, and China's crop is projected unchanged. World consumption is expected to rise 2.6 percent to 125.9 million bales, slightly above the previous consumption record realized in 2006/07. Projected world trade is raised from 2018/19 as import-oriented consumers such as Bangladesh and Vietnam are accounting for a larger share of world consumption, and China's imports rise. Global ending stocks are projected down 0.8 million this year, to 75.7 million bales, 60 percent of consumption. An even larger decline is expected in China's stocks, and stocks outside of China are expected to rebound from their decline in 2018/19 to a new record level.

For 2018/19, both world production and consumption is decreased about 500,000 bales from last month, leaving ending stocks virtually unchanged. Production is lower in India, more than offsetting an increase in Brazil. Use is reduced in Indonesia and Vietnam.

Approved by the Secretary of Agriculture and the Chairman of the World Agricultural Outlook Board, Seth D. Meyer, (202) 720-6030. This report was prepared by the Interagency Commodity Estimates Committees.

APPROVED BY:



ROBERT JOHANSSON  
SECRETARY OF AGRICULTURE DESIGNATE

---

## INTERAGENCY COMMODITY ESTIMATES COMMITTEES

---



*Note: The World Agricultural Outlook Board reviews and approves the World Agricultural Supply and Demand Estimates (WASDE) report. The Board's analysts chair the Interagency Commodity Estimates Committees (ICECs) that prepare the monthly report.*

**Wheat:** William Chambers, ICEC Chair, WAOB, *E-mail:* [wchambers@oce.usda.gov](mailto:wchambers@oce.usda.gov)  
Jennifer Bond, ERS; Andrew Sowell, FAS; Pete Riley, FPAC.

**Rice:** William Chambers, ICEC Chair, WAOB, *E-mail:* [wchambers@oce.usda.gov](mailto:wchambers@oce.usda.gov)  
Nathan Childs, ERS; Rachel Trego, FAS; Vidalina Abadam, FPAC.

**Feed Grains:** Michael Jewison, ICEC Chair, WAOB, *E-mail:* [mjewison@oce.usda.gov](mailto:mjewison@oce.usda.gov)  
Tom Capehart, ERS; Yoonhee Macke, FAS; Erik Dohlman, FPAC.

**Oilseeds:** Keith Menzie, ICEC Chair, WAOB, *E-mail:* [kmenzie@oce.usda.gov](mailto:kmenzie@oce.usda.gov)  
Mark Ash, ERS; Bill George, FAS; Sherrie Grimm, FPAC.

**Cotton:** Stephen MacDonald, ICEC Chair, WAOB, *E-mail:* [smacdonald@oce.usda.gov](mailto:smacdonald@oce.usda.gov)  
Leslie Meyer, ERS; James Johnson, FAS; Erik Dohlman, FPAC.

**Sugar:** Stephen Haley, ICEC Chair, WAOB, *E-mail:* [shaley@oce.usda.gov](mailto:shaley@oce.usda.gov)  
Michael McConnell, ERS; Ron Lord, FAS; Barbara Fecso, FPAC.

**Meat Animals:** Shayle Shagam, ICEC Chair, WAOB, *E-mail:* [sshagam@oce.usda.gov](mailto:sshagam@oce.usda.gov)  
Sherry Wise, AMS; Mildred Haley, ERS; Lindsay Kuberka, FAS; Ryan Pfirrmann-Powell, FPAC.

**Poultry:** Shayle Shagam, ICEC Chair, WAOB, *E-mail:* [sshagam@oce.usda.gov](mailto:sshagam@oce.usda.gov)  
Sherry Wise, AMS; Kim Ha, ERS; Claire Mezoughem, FAS; Milton Madison, FPAC.

**Dairy:** Shayle Shagam, ICEC Chair, WAOB, *E-mail:* [sshagam@oce.usda.gov](mailto:sshagam@oce.usda.gov)  
Carolyn Liebrand, AMS; Jerry Cessna, ERS; Paul Kiendl, FAS; Milton Madison, FPAC.

**In 2019, the WASDE report will be released on Jun 11, July 11, Aug 12, Sep 12, Oct 10, Nov 8, and Dec 10.**

---

## TABLE OF CONTENTS

---

	<b>Page</b>
Highlights .....	1
Interagency Commodity Estimates Committees .....	6
World & U.S. Supply & Use for Grains .....	8
World & U.S. Supply & Use for Cotton .....	9
World & U.S. Supply & Use for Oilseeds .....	10
U.S. Wheat Supply & Use.....	11
U.S. Wheat Supply & Use by Class.....	11
U.S. Feed Grain & Corn Supply & Use .....	12
U.S. Sorghum, Barley & Oats Supply & Use .....	13
U.S. Rice Supply & Use.....	14
U.S. Soybeans & Products Supply & Use .....	15
U.S. Sugar Supply & Use .....	16
Mexico Sugar Supply and Use .....	16
U.S. Cotton Supply & Use .....	17
World Wheat Supply & Use .....	18
World Coarse Grains Supply & Use .....	20
World Corn Supply & Use.....	22
World Rice Supply & Use .....	24
World Cotton Supply & Use .....	26
World Soybean Supply & Use .....	28
World Soybean Meal Supply & Use.....	29
World Soybean Oil Supply & Use .....	30
U.S. Quarterly Animal Product Production .....	31
U.S. Quarterly Prices for Animal Products.....	31
U.S. Meats Supply and Use.....	32
U.S. Egg Supply & Use.....	33
U.S. Milk Supply and Use .....	33
U.S. Dairy Prices .....	34
Reliability Tables .....	35
Related USDA Reports.....	38
Metric Conversion Factors.....	38
Electronic Access and Subscriptions.....	40

## WASDE - 588 - 8

**World and U.S Supply and Use for Grains 1/  
Million Metric Tons**

<b>World</b>			<b>Output</b>	<b>Total Supply</b>	<b>Trade 2/</b>	<b>Total Use 3/</b>	<b>Ending Stocks</b>
Total Grains 4/	2017/18		2615.22	3413.47	414.91	2601.73	811.74
	2018/19 (Est.)		2623.97	3435.71	427.36	2639.09	796.61
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	2701.59	3498.20	438.70	2689.35	808.85
Wheat	2017/18		762.24	1024.32	181.77	743.02	281.31
	2018/19 (Est.)		731.55	1012.86	177.91	737.87	274.98
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	777.49	1052.47	184.60	759.46	293.01
Coarse Grains 5/	2017/18		1357.95	1744.50	186.04	1376.14	368.37
	2018/19 (Est.)		1392.53	1760.90	202.72	1409.19	351.71
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	1425.68	1777.39	206.50	1433.77	343.62
Rice, milled	2017/18		495.03	644.65	47.10	482.58	162.06
	2018/19 (Est.)		499.89	661.95	46.73	492.03	169.92
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	498.42	668.35	47.60	496.13	172.22
<b>United States</b>							
Total Grains 4/	2017/18		437.43	541.28	94.58	357.94	88.76
	2018/19 (Est.)		438.33	534.60	88.85	356.21	89.54
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	452.78	550.15	88.13	362.39	99.63
Wheat	2017/18		47.38	83.80	24.52	29.36	29.91
	2018/19 (Est.)		51.29	85.00	25.17	29.16	30.67
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	51.62	86.10	24.49	30.56	31.05
Coarse Grains 5/	2017/18		384.39	449.49	67.30	324.28	57.92
	2018/19 (Est.)		379.92	440.66	60.73	322.76	57.17
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	394.22	454.53	60.43	327.38	66.72
Rice, milled	2017/18		5.66	8.00	2.76	4.30	0.93
	2018/19 (Est.)		7.12	8.94	2.95	4.29	1.70
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	6.93	9.52	3.21	4.45	1.87

1/ Aggregate of local marketing years. 2/ Based on export estimate. See individual commodity tables for treatment of export/import imbalances. 3/ Total use for the United States is equal to domestic consumption only (excludes exports). 4/ Wheat, coarse grains, and milled rice. 5/ Corn, sorghum, barley, oats, rye, millet, and mixed grains (for U.S. excludes millet and mixed grains).

## WASDE - 588 - 9

**World and U.S. Supply and Use for Grains, Continued 1/  
Million Metric Tons**

Foreign 3/		Output	Total Supply	Trade 2/	Total Use	Ending Stocks
Total Grains 4/	2017/18	2,177.80	2,872.19	320.33	2,243.79	722.98
	2018/19 (Est.)	2,185.64	2,901.10	338.51	2,282.89	707.07
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	2,248.81	2,948.05	350.57	2,326.96	709.22
Wheat	2017/18	714.86	940.53	157.25	713.65	251.40
	2018/19 (Est.)	680.26	927.85	152.74	708.71	244.32
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	725.87	966.37	160.10	728.89	261.97
Coarse Grains 5/	2017/18	973.57	1,295.01	118.75	1,051.86	310.45
	2018/19 (Est.)	1,012.61	1,320.24	142.00	1,086.43	294.54
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	1,031.45	1,322.85	146.08	1,106.39	276.89
Rice, milled	2017/18	489.37	636.65	44.34	478.28	161.13
	2018/19 (Est.)	492.77	653.01	43.78	487.74	168.22
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	491.50	658.83	44.39	491.68	170.35

1/ Aggregate of local marketing years. 2/ Based on export estimate. See individual commodity tables for treatment of export/import imbalances. 3/ Total foreign is equal to world minus United States. 4/ Wheat, coarse grains, and milled rice. 5/ Corn, sorghum, barley, oats, rye, millet, and mixed grains.

**World and U.S. Supply and Use for Cotton 1/  
Million 480-lb. Bales**

		Output	Total Supply	Trade 2/	Total Use 3/	Ending Stocks
World	2017/18	123.78	204.20	40.93	122.77	81.08
	2018/19 (Est.)	118.43	199.51	42.03	122.71	76.47
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	125.45	201.92	45.35	125.93	75.69
United States	2017/18	20.92	23.68	15.85	3.23	4.30
	2018/19 (Est.)	18.37	22.67	14.75	3.10	4.65
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	22.00	26.66	17.00	3.10	6.40
Foreign 4/	2017/18	102.86	180.52	25.08	119.54	76.78
	2018/19 (Est.)	100.07	176.84	27.28	119.61	71.82
	2019/20 (Proj.)	NA	NA	NA	NA	NA
	Apr					
	May	103.45	175.27	28.35	122.83	69.29

1/ Marketing year beginning August 1. 2/ Based on export estimate. 3/ Includes mill use only. 4/ Total Foreign is equal to world minus United States. See global cotton tables for treatment of export/import imbalances.

## WASDE - 588 - 10

**World and U.S. Supply and Use for Oilseeds 1/  
(Million Metric Tons)**

<b>World</b>			Output	Total Supply	Trade	Total Use 2/	Ending Stocks
Oilseeds	2017/18		580.49	690.34	176.19	484.60	115.75
	2018/19 (Est.)		600.98	716.72	173.19	493.68	130.64
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	598.03	728.66	175.31	503.09	130.42
Oilmeals	2017/18		331.53	348.26	88.13	328.74	16.35
	2018/19 (Est.)		336.35	352.70	92.32	333.33	15.96
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	343.52	359.48	94.92	340.67	15.28
Vegetable Oils	2017/18		198.78	219.18	79.61	192.20	22.09
	2018/19 (Est.)		203.95	226.05	84.60	200.43	21.44
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	208.22	229.76	87.18	205.90	20.10
<b>United States</b>							
Oilseeds	2017/18		131.48	142.50	59.19	60.17	13.83
	2018/19 (Est.)		133.85	148.81	49.50	61.38	28.79
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	124.25	154.48	54.30	62.27	28.05
Oilmeals	2017/18		47.03	51.18	13.04	37.58	0.56
	2018/19 (Est.)		46.93	51.28	12.78	38.03	0.46
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	47.80	51.97	12.64	38.90	0.42
Vegetable Oils	2017/18		12.11	18.13	1.35	15.54	1.24
	2018/19 (Est.)		12.44	18.32	1.21	15.87	1.24
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	12.56	18.58	1.06	16.48	1.05
<b>Foreign 3/</b>							
Oilseeds	2017/18		449.01	547.84	117.00	424.43	101.92
	2018/19 (Est.)		467.12	567.91	123.69	432.31	101.85
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	473.78	574.19	121.02	440.82	102.36
Oilmeals	2017/18		284.50	297.08	75.09	291.16	15.78
	2018/19 (Est.)		289.42	301.42	79.54	295.29	15.50
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	295.72	307.51	82.28	301.76	14.86
Vegetable Oils	2017/18		186.67	201.06	78.26	176.66	20.85
	2018/19 (Est.)		191.52	207.73	83.38	184.56	20.21
	2019/20 (Proj.)	Apr	NA	NA	NA	NA	NA
		May	195.66	211.18	86.12	189.42	19.05

1/ Aggregate of local marketing years with Brazil and Argentina on an Oct.-Sept. year. 2/ Crush only for oilseeds. 3/ Total Foreign is equal to World minus United States.

WASDE - 588 - 11

U.S. Wheat Supply and Use 1/

	2017/18	2018/19 Est.	2019/20 Proj. Apr	2019/20 Proj. May
			<i>Million Acres</i>	
Area Planted	46.1	47.8	NA	45.8 *
Area Harvested	37.6	39.6	NA	39.0 *
			<i>Bushels</i>	
Yield per Harvested Acre	46.4	47.6	NA	48.6 *
			<i>Million Bushels</i>	
Beginning Stocks	1,181	1,099	NA	1,127
Production	1,741	1,884	NA	1,897
Imports	157	140	NA	140
Supply, Total	3,079	3,123	NA	3,164
Food	964	960	NA	965
Seed	63	62	NA	68
Feed and Residual	51	50	NA	90
Domestic, Total	1,079	1,072	NA	1,123
Exports	901	925	NA	900
Use, Total	1,980	1,997	NA	2,023
Ending Stocks	1,099	1,127	NA	1,141
Avg. Farm Price (\$/bu) 2/	4.72	5.20	NA	4.70

U.S. Wheat by Class: Supply and Use

Year beginning June 1		Hard Red Winter	Hard Red Spring	Soft Red Winter	White	Durum	Total
				<i>Million Bushels</i>			
2018/19 (Est.)	Beginning Stocks	581	191	205	87	35	1,099
	Production	662	587	286	272	77	1,884
	Supply, Total 3/	1,249	846	496	365	167	3,123
	Domestic Use	423	279	188	96	86	1,072
	Exports	325	255	125	200	20	925
	Use, Total	748	534	313	296	106	1,997
	Ending Stocks, Total	501	313	183	69	61	1,127
	Ending Stocks, Total	490	305	168	69	55	1,087

Note: Totals may not add due to rounding. 1/ Marketing year beginning June 1. 2/ Marketing-year weighted average price received by farmers. 3/ Includes imports. \* Planted acres reported in the March 29, 2019, "Prospective Plantings." Harvested acres and yield for other spring wheat and Durum are projected using 10-year harvested-to-planted ratios by state and 1985-2018 yield trends by state (except for Arizona, California, and Idaho Durum). Winter wheat harvested acres and yield reported in the May 10, 2019, "Crop Production."

\*\*\*\*\*  
Wheat-by-class projections for 2019/20 will first be published in the July 11, 2019, WASDE.  
\*\*\*\*\*

## WASDE - 588 - 12

## U.S. Feed Grain and Corn Supply and Use 1/

	2017/18	2018/19 Est.	2019/20 Proj. Apr	2019/20 Proj. May
<b>FEED GRAINS</b>				
			<i>Million Acres</i>	
Area Planted	100.9	100.1	NA	103.0 *
Area Harvested	90.5	89.6	NA	93.0 *
			<i>Metric Tons</i>	
Yield per Harvested Acre	4.24	4.24	NA	4.24
			<i>Million Metric Tons</i>	
Beginning Stocks	62.1	57.9	NA	57.2
Production	384.1	379.7	NA	393.9
Imports	2.7	2.5	NA	2.8
Supply, Total	449.0	440.1	NA	453.9
Feed and Residual	138.5	139.9	NA	143.3
Food, Seed & Industrial	185.3	182.3	NA	183.5
Domestic, Total	323.8	322.2	NA	326.8
Exports	67.3	60.7	NA	60.4
Use, Total	391.1	382.9	NA	387.2
Ending Stocks	57.9	57.2	NA	66.7
<b>CORN</b>				
			<i>Million Acres</i>	
Area Planted	90.2	89.1	NA	92.8 *
Area Harvested	82.7	81.7	NA	85.4 *
			<i>Bushels</i>	
Yield per Harvested Acre	176.6	176.4	NA	176.0 *
			<i>Million Bushels</i>	
Beginning Stocks	2,293	2,140	NA	2,095
Production	14,609	14,420	NA	15,030
Imports	36	35	NA	35
Supply, Total	16,939	16,595	NA	17,160
Feed and Residual	5,304	5,300	NA	5,450
Food, Seed & Industrial 2/	7,056	6,900	NA	6,950
Ethanol & by-products 3/	5,605	5,450	NA	5,500
Domestic, Total	12,360	12,200	NA	12,400
Exports	2,438	2,300	NA	2,275
Use, Total	14,799	14,500	NA	14,675
Ending Stocks	2,140	2,095	NA	2,485
Avg. Farm Price (\$/bu) 4/	3.36	3.50	NA	3.30

Note: Totals may not add due to rounding. 1/ Marketing year beginning September 1 for corn and sorghum; June 1 for barley and oats. 2/ For a breakout of FSI corn uses, see Feed Outlook table 5 or access the data on the Web through the Feed Grains Database at [www.ers.usda.gov/data-products/feed-grains-database.aspx](http://www.ers.usda.gov/data-products/feed-grains-database.aspx). 3/ Corn processed in ethanol plants to produce ethanol and by-products including distillers' grains, corn gluten feed, corn gluten meal, and corn oil. 4/ Marketing-year weighted average price received by farmers. \*Planted acres reported in the March 29, 2019, "Prospective Plantings." For corn, harvested acres projected based on historical abandonment and use for silage. The yield projection is based on a weather-adjusted trend assuming normal mid-May planting progress and summer growing season weather, estimated using the 1988-2018 time period, and includes a downward stochastic adjustment to account for the asymmetric response of yield to July precipitation.

## WASDE - 588 - 13

## U.S. Sorghum, Barley, and Oats Supply and Use 1/

	2017/18	2018/19 Est.	2019/20 Proj. Apr	2019/20 Proj. May
<b>SORGHUM</b>				
	<i>Million Bushels</i>			
Area Planted (mil. acres)	5.6	5.7	NA	5.1 *
Area Harvested (mil. acres)	5.0	5.1	NA	4.6 *
Yield (bushels/acre)	71.7	72.1	NA	67.4 *
Beginning Stocks	33	35	NA	60
Production	362	365	NA	310
Imports	2	0	NA	0
Supply, Total	397	400	NA	370
Feed and Residual	97	155	NA	125
Food, Seed & Industrial	60	100	NA	100
Total Domestic	157	255	NA	225
Exports	205	85	NA	100
Use, Total	362	340	NA	325
Ending Stocks	35	60	NA	45
Avg. Farm Price (\$/bu) 2/	3.22	3.20	NA	3.00
<b>BARLEY</b>				
Area Planted (mil. acres)	2.5	2.5	NA	2.6 *
Area Harvested (mil. acres)	2.0	2.0	NA	2.1 *
Yield (bushels/acre)	73.0	77.4	NA	74.8 *
Beginning Stocks	106	94	NA	89
Production	143	153	NA	157
Imports	9	6	NA	10
Supply, Total	259	254	NA	256
Feed and Residual	2	5	NA	10
Food, Seed & Industrial	157	155	NA	153
Total Domestic	159	160	NA	163
Exports	5	5	NA	3
Use, Total	164	165	NA	166
Ending Stocks	94	89	NA	90
Avg. Farm Price (\$/bu) 2/	4.47	4.60	NA	4.20
<b>OATS</b>				
Area Planted (mil. acres)	2.6	2.7	NA	2.6 *
Area Harvested (mil. acres)	0.8	0.9	NA	0.9 *
Yield (bushels/acre)	61.7	64.9	NA	66.7 *
Beginning Stocks	50	41	NA	33
Production	50	56	NA	60
Imports	89	85	NA	100
Supply, Total	189	182	NA	193
Feed and Residual	68	70	NA	80
Food, Seed & Industrial	77	77	NA	78
Total Domestic	146	147	NA	158
Exports	2	2	NA	2
Use, Total	148	149	NA	160
Ending Stocks	41	33	NA	33
Avg. Farm Price (\$/bu) 2/	2.59	2.65	NA	2.60

Note: Totals may not add due to rounding. 1/ Marketing year beginning September 1 for sorghum; June 1 for barley and oats. 2/ Marketing-year weighted average price received by farmers. \*Planted acres reported in the March 29, 2019, "Prospective Plantings." Harvested area for sorghum, barley and oats based on historical average harvested-to-planted ratios. For sorghum the projected yield is the median yield for 1989-2018. For barley and oats, projected yields are based on the 1990-2018 linear trends. Yields shown reflect production rounding.

## WASDE - 588 - 14

**U.S. Rice Supply and Use 1/  
(Rough Equivalent of Rough and Milled Rice)**

	2017/18	2018/19 Est.	2019/20 Proj. Apr	2019/20 Proj. May
<b>TOTAL RICE</b>				
		<i>Million Acres</i>		
Area Planted	2.46	2.95	NA	2.87 *
Area Harvested	2.37	2.92	NA	2.84 *
		<i>Pounds</i>		
Yield per Harvested Acre	7,507	7,692	NA	7,697 *
		<i>Million Hundredweight</i>		
Beginning Stocks 2/	46.0	29.4	NA	53.6
Production	178.2	224.2	NA	218.2
Imports	27.5	28.0	NA	28.0
Supply, Total	251.8	281.6	NA	299.8
Domestic & Residual 3/	135.4	135.0	NA	140.0
Exports, Total 4/	87.0	93.0	NA	101.0
Rough	28.6	33.0	NA	38.0
Milled (rough equiv.)	58.4	60.0	NA	63.0
Use, Total	222.4	228.0	NA	241.0
Ending Stocks	29.4	53.6	NA	58.8
Avg. Milling Yield (%) 5/	70.00	70.00	NA	70.00
Avg. Farm Price (\$/cwt) 6/	12.90	12.00	NA	11.20

**LONG-GRAIN RICE**

Harvested Acres (mil.)	1.75	2.18		
Yield (pounds/acre)	7,314	7,517		
Beginning Stocks	31.0	20.3	NA	35.3
Production	127.9	164.0	NA	159.6
Supply, Total 7/	182.2	207.3	NA	217.9
Domestic & Residual 3/	98.6	106.0	NA	108.0
Exports 8/	63.3	66.0	NA	72.0
Use, Total	161.9	172.0	NA	180.0
Ending Stocks	20.3	35.3	NA	37.9
Avg. Farm Price (\$/cwt) 6/	11.50	10.70	NA	10.00

**MEDIUM & SHORT-GRAIN RICE**

Harvested Acres (mil.)	0.63	0.73		
Yield (pounds/acre)	8,048	8,209		
Beginning Stocks	11.5	7.6	NA	16.9
Production	50.4	60.3	NA	58.6
Supply, Total 7/	68.2	72.9	NA	80.5
Domestic & Residual 3/	36.9	29.0	NA	32.0
Exports 8/	23.7	27.0	NA	29.0
Use, Total	60.6	56.0	NA	61.0
Ending Stocks	7.6	16.9	NA	19.5
Avg. Farm Price (\$/cwt) 1/ 6/ 9/	17.00	16.10	NA	14.60
California 10/	20.10	17.80	NA	16.50
Other States 1/	11.70	12.20	NA	10.50

Note: Totals may not add due to rounding. 1/ Marketing year beginning August 1. 2/ Includes the following quantities of broken kernel rice (type undetermined) not included in estimates of ending stocks by type (in mil. cwt): 2015/16-2.9; 2016/17-3.5; 2017/18-1.4. 3/ Residual includes unreported use, processing losses, and estimating errors. Use by type may not add to total rice use because of the difference in brokens between beginning and ending stocks. 4/ Includes rough rice and milled rice exports. Milled rice exports are converted to an equivalent rough basis. 5/ Expressed as a percent, i.e., the total quantity of whole kernel and broken rice produced divided by the quantity of rough rice milled. 6/ Marketing-year weighted average price received by farmers. 7/ Includes imports. 8/ Exports by type of rice are estimated. 9/ The medium/short-grain season-average- farm price (SAFP) largely reflects rice that is marketed through price pools in California. The pool price is not final until all the rice in the pool is marketed for the crop year. Therefore, SAFP forecasts based on the average of NASS monthly prices and the final price may differ. For example, the average difference between the preliminary California SAFP forecast and the final price has averaged \$0.98 per cwt from 2014/15-2017/18, with a high of \$3.50 per cwt in 2017/18 and a low of -\$0.20 per cwt in 2015/16. 10/ Marketing year beginning October 1. \* Planted acres reported in March 29, 2019, "Prospective Plantings." Harvested acres are estimated using long run harvested-to-planted ratios by rice class. Projected yield is based on by class trend analysis and prospective planting.

## WASDE - 588 - 15

## U.S. Soybeans and Products Supply and Use (Domestic Measure) 1/

SOYBEANS	2017/18	2018/19 Est.	2019/20 Proj.	2019/20 Proj.
			Apr	May
			<i>Million Acres</i>	
Area Planted	90.2	89.2	NA	84.6 *
Area Harvested	89.5	88.1	NA	83.8 *
			<i>Bushels</i>	
Yield per Harvested Acre	49.3	51.6	NA	49.5 *
			<i>Million Bushels</i>	
Beginning Stocks	302	438	NA	995
Production	4,412	4,544	NA	4,150
Imports	22	17	NA	20
Supply, Total	4,735	4,999	NA	5,165
Crushings	2,055	2,100	NA	2,115
Exports	2,129	1,775	NA	1,950
Seed	104	98	NA	96
Residual	9	31	NA	34
Use, Total	4,297	4,004	NA	4,195
Ending Stocks	438	995	NA	970
Avg. Farm Price (\$/bu) 2/	9.33	8.55	NA	8.10
<b>SOYBEAN OIL</b>				
			<i>Million Pounds</i>	
Beginning Stocks	1,711	1,995	NA	1,865
Production 4/	23,772	24,570	NA	24,535
Imports	335	400	NA	450
Supply, Total	25,819	26,965	NA	26,850
Domestic Disappearance	21,376	22,950	NA	23,600
Biodiesel 3/	7,134	8,350	NA	8,700
Food, Feed & other Industrial	14,243	14,600	NA	14,900
Exports	2,447	2,150	NA	1,800
Use, Total	23,823	25,100	NA	25,400
Ending stocks	1,995	1,865	NA	1,450
Avg. Price (c/lb) 2/	30.04	28.00	NA	29.50
<b>SOYBEAN MEAL</b>				
			<i>Thousand Short Tons</i>	
Beginning Stocks	401	555	NA	450
Production 4/	49,226	49,095	NA	49,800
Imports	495	500	NA	350
Supply, Total	50,121	50,150	NA	50,600
Domestic Disappearance	35,509	35,950	NA	36,600
Exports	14,057	13,750	NA	13,600
Use, Total	49,566	49,700	NA	50,200
Ending Stocks	555	450	NA	400
Avg. Price (\$/s.t.) 2/	345.02	305.00	NA	290.00

Note: Totals may not add due to rounding. Reliability calculations at end of report. 1/ Marketing year beginning September 1 for soybeans; October 1 for soybean oil and soybean meal. 2/ Prices: soybeans, marketing year weighted average price received by farmers; oil, simple average of crude soybean oil, Decatur; meal, simple average of 48 percent protein, Decatur. 3/ Reflects only biodiesel made from methyl ester as reported by the U.S. Energy Information Administration. 4/ Based on an October year crush of 2,100 million bushels for 2018/19 and 2,115 million bushels for 2019/20. \*Planted acres are reported in the March 29, 2019 Prospective Plantings report. Harvested acres are based on the 5-year planted-to-harvested ratio. The projected yield is based on a weather-adjusted trend model and assumes normal weather.

## WASDE - 588 - 16

## U.S. Sugar Supply and Use 1/

	2017/18	2018/19 Est.	2018/19 Est.	2019/20 Proj.
		Apr	May	May
	<i>1,000 Short Tons, Raw Value</i>			
Beginning Stocks	1,876	2,008	2,008	1,505
Production 2/	9,293	9,060	8,947	9,115
Beet Sugar	5,279	4,997	4,910	5,114
Cane Sugar	4,014	4,063	4,037	4,001
Florida	1,983	2,043	2,014	2,051
Hawaii	0	0	0	0
Louisiana	1,862	1,875	1,875	1,800
Texas	169	145	148	150
Imports	3,277	2,862	2,855	3,219
TRQ 3/	1,663	1,560	1,538	1,381
Other Program 4/	326	350	350	350
Other 5/	1,287	952	967	1,488
Mexico	1,223	897	897	1,418
Total Supply	14,445	13,930	13,810	13,839
Exports	170	35	35	35
Deliveries	12,185	12,270	12,270	12,320
Food	12,048	12,125	12,125	12,175
Other 6/	137	145	145	145
Miscellaneous	82	0	0	0
Total Use	12,438	12,305	12,305	12,355
Ending Stocks	2,008	1,625	1,505	1,484
Stocks to Use Ratio	16.1	13.2	12.2	12.0

1/ Fiscal years beginning Oct 1. Data and projections correspond to category components from "Sweetener Market Data" (SMD). 2/ Production projections for 2017/18 and 2018/19 are based on Crop Production and processor projections where appropriate. 3/ For 2018/19, WTO raw sugar TRQ shortfall (121) and for 2019/20 (99). 4/ Composed of sugar under the re-export and polyhydric alcohol programs. 5/ Imports from Mexico; and high-tier tariff sugar and syrups not otherwise specified -- for 2018/19 (70) and 2019/20 (70). 6/ Transfers accompanying deliveries for sugar-containing products to be exported (SCP) and polyhydric alcohol manufacture (POLY), and deliveries for livestock feed and ethanol. Total refiner license transfers for SCP and POLY inclusive of WASDE-reported deliveries: 2017/18 -- 278; estimated 2018/19 -- 324; projected 2019/20 -- 340.

## Mexico Sugar Supply and Use and High Fructose Corn Syrup Consumption 1/

		Beginning Stocks	Production	Imports	Domestic 2/	Exports	Ending Stocks
		<i>1,000 Metric Tons, Actual Weight</i>					
2018/19 Est.	Apr	1,395	6,152	70	5,095	1,102	1,420
	May	1,395	6,200	70	4,716	1,954	995
2019/20 Proj.	Apr	NA	NA	NA	NA	NA	NA
	May	995	6,100	70	4,776	1,394	995

1/ HFCS consumption by Mexico (1,000 metric tons, dry basis): 2017/18 = 1,593; Estimated Oct-Mar 2018 = 755; Projected 2018/19 = 1,520; Estimated Oct-Mar 2019 = 713; Projected 2019/20 = 1,520. Footnote source for estimate: Comité Nacional para el Desarrollo Sustentable de la Cana de Azúcar. 2/Includes deliveries for consumption, Mexico's products export program (IMMEX), and Other Deliveries/Ending Year Statistical Adjustments. IMMEX: 2018/19 (480 est); 2019/20 (480 proj). Other Deliveries/Ending Year Statistical Adjustments: 2018/19 (0), 2019/20 (0).



## WASDE - 588 - 18

World Wheat Supply and Use 1/  
(Million Metric Tons)

2017/18	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	262.08	762.24	179.82	146.77	743.02	181.77	281.31
World Less China	147.15	627.91	175.82	129.27	622.02	180.77	150.04
United States	32.13	47.38	4.28	1.39	29.36	24.52	29.91
Total Foreign	229.95	714.86	175.53	145.38	713.65	157.25	251.40
Major Exporters 4/	36.16	333.07	6.96	89.87	205.54	130.95	39.70
Argentina	0.25	18.50	0.00	0.05	5.45	12.66	0.64
Australia	5.73	21.30	0.16	4.00	7.48	13.85	5.87
Canada	6.86	29.98	0.45	4.52	9.42	21.95	5.92
European Union 5/	10.72	151.14	5.82	58.00	130.40	23.29	14.00
Russia	10.83	85.17	0.47	20.00	43.00	41.42	12.04
Ukraine	1.77	26.98	0.06	3.30	9.80	17.78	1.24
Major Importers 6/	160.50	202.93	115.28	37.60	290.24	12.24	176.23
Bangladesh	1.88	1.15	6.15	0.00	7.50	0.00	1.69
Brazil	2.26	4.26	7.02	0.50	12.00	0.23	1.31
China	114.93	134.33	4.00	17.50	121.00	1.00	131.26
Japan	1.21	0.97	5.88	0.75	6.60	0.28	1.18
N. Africa 7/	14.15	19.25	27.45	2.25	45.23	0.83	14.79
Nigeria	0.20	0.07	5.09	0.05	4.75	0.40	0.20
Sel. Mideast 8/	16.67	18.36	18.27	4.11	37.91	0.83	14.56
Southeast Asia 9/	5.60	0.00	25.87	8.94	25.39	1.04	5.03
Selected Other							
India	9.80	98.51	1.17	5.00	95.83	0.44	13.20
Kazakhstan	3.36	14.80	0.10	2.10	6.90	9.00	2.37
<b>2018/19 Est.</b>							
World 3/	281.31	731.55	175.15	139.72	737.87	177.91	274.98
World Less China	150.04	600.12	171.65	119.72	612.87	176.71	134.99
United States	29.91	51.29	3.81	1.36	29.16	25.17	30.67
Total Foreign	251.40	680.26	171.34	138.36	708.71	152.74	244.32
Major Exporters 4/	39.70	302.56	6.97	82.55	196.55	125.20	27.48
Argentina	0.64	19.50	0.01	0.05	5.65	13.70	0.79
Australia	5.87	17.30	0.15	5.70	9.20	10.00	4.12
Canada	5.92	31.80	0.45	4.30	9.30	24.00	4.87
European Union 5/	14.00	137.22	5.80	52.00	123.10	24.00	9.91
Russia	12.04	71.69	0.50	18.00	40.50	37.00	6.73
Ukraine	1.24	25.06	0.06	2.50	8.80	16.50	1.06
Major Importers 6/	176.23	199.70	112.75	38.38	294.45	12.26	181.98
Bangladesh	1.69	1.00	5.00	0.00	7.00	0.00	0.69
Brazil	1.31	5.43	7.50	0.50	12.10	0.80	1.34
China	131.26	131.43	3.50	20.00	125.00	1.20	139.99
Japan	1.18	0.88	5.80	0.68	6.53	0.27	1.06
N. Africa 7/	14.79	21.00	26.80	2.25	46.08	0.70	15.82
Nigeria	0.20	0.06	5.00	0.05	4.66	0.40	0.20
Sel. Mideast 8/	14.56	17.88	17.65	3.66	37.94	0.54	11.61
Southeast Asia 9/	5.03	0.00	26.70	8.34	25.64	1.06	5.03
Selected Other							
India	13.20	99.70	0.10	5.00	95.00	0.50	17.50
Kazakhstan	2.37	13.95	0.06	1.80	6.60	8.50	1.27

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Australia, Canada, European Union, Russia, and Ukraine. 5/ Trade excludes intra-trade. 6/ Bangladesh, Brazil, China, South Korea, Japan, Nigeria, Mexico, Turkey, Egypt, Algeria, Libya, Morocco, Tunisia, Indonesia, Malaysia, Philippines, Thailand, Vietnam, Lebanon, Iraq, Iran, Israel, Jordan, Kuwait, Saudi Arabia, Yemen, United Arab Emirates, and Oman. 7/ Algeria, Egypt, Libya, Morocco, and Tunisia. 8/ Lebanon, Iraq, Iran, Israel, Jordan, Kuwait, Saudi Arabia, Yemen, United Arab Emirates, and Oman 9/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 19

**World Wheat Supply and Use 1/ (Cont'd.)**  
**(Million Metric Tons)**

2019/20 Proj.		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	274.98	777.49	179.64	150.27	759.46	184.60	293.01
World Less China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	134.99	645.49	176.14	129.27	631.46	183.30	146.82
United States	Apr	NA	NA	NA	NA	NA	NA	NA
	May	30.67	51.62	3.81	2.45	30.56	24.49	31.05
Total Foreign	Apr	NA	NA	NA	NA	NA	NA	NA
	May	244.32	725.87	175.83	147.82	728.90	160.10	261.97
Major Exporters 4/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	27.48	336.80	6.69	88.35	202.15	133.50	35.31
Argentina	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.79	20.00	0.01	0.05	5.75	14.00	1.05
Australia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	4.12	22.50	0.15	5.00	8.50	13.50	4.77
Canada	Apr	NA	NA	NA	NA	NA	NA	NA
	May	4.87	34.50	0.45	4.50	9.50	24.00	6.32
European Union 5/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	9.91	153.80	5.50	56.50	128.00	27.00	14.21
Russia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	6.73	77.00	0.50	18.50	40.50	36.00	7.73
Ukraine	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.06	29.00	0.08	3.80	9.90	19.00	1.23
Major Importers 6/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	181.98	205.17	116.49	40.56	301.48	13.05	189.10
Bangladesh	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.69	1.10	6.50	0.00	7.30	0.00	0.99
Brazil	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.34	5.50	7.50	0.50	12.20	0.80	1.34
China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	139.99	132.00	3.50	21.00	128.00	1.30	146.19
Japan	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.06	0.95	5.90	0.70	6.50	0.28	1.13
N. Africa 7/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	15.82	18.87	27.40	2.25	46.65	0.69	14.75
Nigeria	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.20	0.06	5.30	0.05	4.96	0.40	0.20
Sel. Mideast 8/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	11.61	22.46	17.39	3.92	39.01	0.72	11.73
Southeast Asia 9/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	5.03	0.00	27.90	9.04	26.92	1.07	4.95
Selected Other								
India	Apr	NA	NA	NA	NA	NA	NA	NA
	May	17.50	100.00	0.05	5.50	97.00	0.50	20.05
Kazakhstan	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.27	13.80	0.06	1.80	6.60	7.50	1.03

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Australia, Canada, European Union, Russia, and Ukraine. 5/ Trade excludes intra-trade. 6/ Bangladesh, Brazil, China, South Korea, Japan, Nigeria, Mexico, Turkey, Egypt, Algeria, Libya, Morocco, Tunisia, Indonesia, Malaysia, Philippines, Thailand, Vietnam, Lebanon, Iraq, Iran, Israel, Jordan, Kuwait, Saudi Arabia, Yemen, United Arab Emirates, and Oman. 7/ Algeria, Egypt, Libya, Morocco, and Tunisia. 8/ Lebanon, Iraq, Iran, Israel, Jordan, Kuwait, Saudi Arabia, Yemen, United Arab Emirates, and Oman 9/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 20

**World Coarse Grain Supply and Use 1/  
(Million Metric Tons)**

<b>2017/18</b>	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	386.55	1,357.95	187.45	836.42	1,376.14	186.04	368.37
World Less China	162.21	1,091.13	171.03	637.17	1,091.99	185.98	144.99
United States	62.17	384.39	2.94	138.61	324.28	67.30	57.92
Total Foreign	324.38	973.57	184.52	697.81	1,051.86	118.75	310.45
Major Exporters 4/	38.41	251.87	3.62	126.15	170.16	98.87	24.87
Argentina	6.70	39.32	0.01	11.93	17.46	25.00	3.56
Australia	2.65	11.91	0.00	3.94	5.81	6.84	1.91
Brazil	14.49	85.06	1.46	57.70	68.18	25.13	7.71
Canada	5.56	26.24	1.77	15.92	23.23	5.78	4.57
Russia	2.06	41.72	0.13	21.57	31.02	11.52	1.37
Ukraine	3.01	34.07	0.05	8.44	11.82	22.50	2.81
Major Importers 5/	39.08	243.34	133.73	283.20	367.12	10.02	39.02
European Union 6/	15.11	152.31	19.40	121.05	162.57	7.92	16.34
Japan	1.69	0.19	17.58	13.75	17.75	0.00	1.71
Mexico	6.00	33.19	16.36	29.20	48.41	0.96	6.18
N. Afr & Mideast 7/	7.97	27.23	39.15	58.73	66.55	0.13	7.67
Saudi Arabia	2.54	0.26	11.99	12.28	12.70	0.00	2.08
Southeast Asia 8/	3.29	29.89	14.54	36.17	44.39	1.01	2.33
South Korea	1.81	0.20	10.19	7.80	10.31	0.00	1.90
Selected Other							
China	224.34	266.82	16.43	199.25	284.15	0.06	223.38
<b>2018/19 Est.</b>							
World 3/	368.37	1,392.53	196.19	851.00	1,409.19	202.72	351.71
World Less China	144.99	1,127.13	183.84	652.35	1,118.54	202.66	141.29
United States	57.92	379.92	2.82	140.11	322.76	60.73	57.17
Total Foreign	310.45	1,012.61	193.37	710.89	1,086.43	142.00	294.54
Major Exporters 4/	24.87	288.63	5.10	124.85	169.47	121.24	27.88
Argentina	3.56	56.92	0.01	12.70	18.46	34.81	7.22
Australia	1.91	10.89	0.00	3.49	5.54	5.32	1.96
Brazil	7.71	103.44	1.60	59.04	70.54	32.05	10.15
Canada	4.57	26.24	2.26	16.34	23.60	5.95	3.52
Russia	1.37	35.00	0.10	18.70	27.27	8.19	1.01
Ukraine	2.81	44.50	0.04	7.91	11.11	33.93	2.32
Major Importers 5/	39.02	241.73	144.00	295.57	379.87	9.54	35.34
European Union 6/	16.34	147.15	25.01	126.00	167.97	7.56	12.96
Japan	1.71	0.18	17.27	13.52	17.51	0.00	1.64
Mexico	6.18	32.50	18.11	31.02	50.26	0.80	5.74
N. Afr & Mideast 7/	7.67	31.07	39.87	62.37	70.35	0.20	8.06
Saudi Arabia	2.08	0.29	12.61	12.75	13.23	0.00	1.75
Southeast Asia 8/	2.33	30.27	16.56	37.46	45.41	0.99	2.77
South Korea	1.90	0.20	10.38	8.11	10.60	0.00	1.88
Selected Other							
China	223.38	265.41	12.35	198.65	290.65	0.06	210.42

1/ Aggregate of local marketing years. Coarse grains include corn, sorghum, barley, oats, rye, millet, and mixed grains (for U.S. excludes millet and mixed grains). 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Australia, Brazil, Canada, Russia and Ukraine. 5/ The European Union, Japan, Mexico, selected North Africa and Middle East, Saudi Arabia, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Algeria, Egypt, Iran, Israel, Jordan, Libya, Morocco, Syria, Tunisia, and Turkey. 8/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 21

**World Coarse Grain Supply and Use 1/ (Cont'd.)**  
**(Million Metric Tons)**

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	351.71	1,425.68	200.76	867.21	1,433.77	206.50	343.62
World Less China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	141.29	1,163.20	185.71	670.11	1,138.32	206.44	151.18
United States	Apr	NA	NA	NA	NA	NA	NA	NA
	May	57.17	394.22	3.14	143.49	327.38	60.43	66.72
Total Foreign	Apr	NA	NA	NA	NA	NA	NA	NA
	May	294.54	1,031.45	197.63	723.72	1,106.39	146.08	276.89
Major Exporters 4/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	27.88	299.57	2.93	130.45	177.04	124.23	29.12
Argentina	Apr	NA	NA	NA	NA	NA	NA	NA
	May	7.22	56.56	0.01	13.48	19.94	35.31	8.54
Australia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.96	12.75	0.00	4.50	6.57	6.17	1.97
Brazil	Apr	NA	NA	NA	NA	NA	NA	NA
	May	10.15	104.46	1.60	61.07	73.55	34.01	8.65
Canada	Apr	NA	NA	NA	NA	NA	NA	NA
	May	3.52	29.76	1.03	17.10	24.36	5.46	4.49
Russia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.01	38.40	0.09	19.20	27.95	10.09	1.46
Ukraine	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.32	43.10	0.03	8.43	11.68	31.69	2.08
Major Importers 5/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	35.34	256.52	145.15	302.09	387.74	11.13	38.14
European Union 6/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	12.96	157.83	21.01	125.80	168.32	8.36	15.12
Japan	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.64	0.18	17.37	13.52	17.61	0.00	1.58
Mexico	Apr	NA	NA	NA	NA	NA	NA	NA
	May	5.74	33.10	19.01	32.41	51.99	1.50	4.36
N. Afr & Mideast 7/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	8.06	33.12	42.32	65.33	73.56	0.29	9.65
Saudi Arabia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.75	0.25	14.01	13.55	14.00	0.00	2.02
Southeast Asia 8/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.77	31.76	16.59	38.86	46.83	0.99	3.30
South Korea	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.88	0.20	10.66	8.29	10.88	0.00	1.85
Selected Other								
China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	210.42	262.48	15.05	197.10	295.45	0.06	192.44

1/ Aggregate of local marketing years. Coarse grains include corn, sorghum, barley, oats, rye, millet, and mixed grains (for U.S. excludes millet and mixed grains). 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Australia, Brazil, Canada, Russia and Ukraine. 5/ The European Union, Japan, Mexico, selected North Africa and Middle East, Saudi Arabia, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Algeria, Egypt, Iran, Israel, Jordan, Libya, Morocco, Syria, Tunisia, and Turkey. 8/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 22

World Corn Supply and Use 1/  
(Million Metric Tons)

2017/18	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	351.46	1,077.95	149.83	672.86	1,090.13	148.70	339.28
World Less China	128.44	818.88	146.37	485.86	827.13	148.69	116.75
United States	58.25	371.10	0.92	134.73	313.97	61.94	54.37
Total Foreign	293.21	706.85	148.91	538.13	776.16	86.77	284.91
Major Exporters 4/	25.32	164.42	1.11	82.40	103.50	73.29	14.05
Argentina	5.27	32.00	0.01	8.50	12.40	22.50	2.38
Brazil	14.02	82.00	0.92	55.00	64.50	25.12	7.31
Russia	0.78	13.20	0.05	7.40	8.30	5.53	0.20
South Africa	3.70	13.10	0.10	6.60	12.10	2.10	2.70
Ukraine	1.55	24.12	0.04	4.90	6.20	18.04	1.47
Major Importers 5/	21.97	125.99	88.35	154.70	208.85	3.72	23.74
Egypt	1.89	6.40	9.46	13.40	15.90	0.01	1.84
European Union 6/	7.60	62.03	18.47	57.00	76.50	1.75	9.84
Japan	1.32	0.00	15.67	12.00	15.60	0.00	1.39
Mexico	5.41	27.57	16.13	24.30	42.50	0.96	5.65
Southeast Asia 7/	3.28	29.84	14.20	36.10	44.00	1.00	2.32
South Korea	1.80	0.07	10.02	7.70	10.00	0.00	1.89
Selected Other							0.00
Canada	2.57	14.10	1.70	8.87	14.02	1.94	2.42
China	223.02	259.07	3.46	187.00	263.00	0.02	222.53
<b>2018/19 Est.</b>							
World 3/	339.28	1,119.00	163.99	699.68	1,132.34	170.32	325.94
World Less China	116.75	861.67	158.99	507.68	857.34	170.30	116.11
United States	54.37	366.29	0.89	134.63	309.89	58.42	53.23
Total Foreign	284.91	752.71	163.10	565.05	822.44	111.90	272.72
Major Exporters 4/	14.05	207.22	2.08	84.60	107.20	97.00	19.15
Argentina	2.38	49.00	0.01	9.70	13.80	31.50	6.08
Brazil	7.31	100.00	1.00	56.00	66.50	32.00	9.81
Russia	0.20	11.42	0.05	7.50	8.40	3.00	0.26
South Africa	2.70	11.00	1.00	6.60	12.30	1.00	1.40
Ukraine	1.47	35.81	0.03	4.80	6.20	29.50	1.60
Major Importers 5/	23.74	127.28	96.90	168.00	222.55	3.99	21.38
Egypt	1.84	6.80	9.70	13.70	16.20	0.01	2.13
European Union 6/	9.84	63.40	23.50	67.00	87.00	2.20	7.54
Japan	1.39	0.00	15.50	11.90	15.50	0.00	1.40
Mexico	5.65	26.70	17.50	25.70	43.90	0.80	5.15
Southeast Asia 7/	2.32	30.22	16.40	37.40	45.20	0.98	2.76
South Korea	1.89	0.08	10.20	8.00	10.30	0.00	1.86
Selected Other							0.00
Canada	2.42	13.90	2.20	9.30	14.50	2.00	2.02
China	222.53	257.33	5.00	192.00	275.00	0.02	209.84

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Brazil, Russia, South Africa and Ukraine. 5/ Egypt, the European Union, Japan, Mexico, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 23

**World Corn Supply and Use 1/ (Cont'd.)**  
**(Million Metric Tons)**

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	325.94	1,133.78	167.06	705.10	1,145.01	171.61	314.71
World Less China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	116.11	879.78	160.06	515.10	866.01	171.59	122.90
United States	Apr	NA	NA	NA	NA	NA	NA	NA
	May	53.23	381.78	0.89	138.44	314.98	57.79	63.13
Total Foreign	Apr	NA	NA	NA	NA	NA	NA	NA
	May	272.72	752.00	166.17	566.66	830.04	113.82	251.58
Major Exporters 4/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	19.15	210.00	1.17	87.50	111.70	99.50	19.12
Argentina	Apr	NA	NA	NA	NA	NA	NA	NA
	May	6.08	49.00	0.01	10.30	15.00	32.50	7.59
Brazil	Apr	NA	NA	NA	NA	NA	NA	NA
	May	9.81	101.00	1.00	58.00	69.50	34.00	8.31
Russia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.26	13.00	0.04	7.60	8.50	4.50	0.30
South Africa	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.40	14.00	0.10	6.60	12.30	1.50	1.70
Ukraine	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.60	33.00	0.02	5.00	6.40	27.00	1.22
Major Importers 5/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	21.38	130.27	95.10	165.60	221.15	4.49	21.11
Egypt	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.13	7.20	10.00	14.40	16.90	0.01	2.42
European Union 6/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	7.54	64.20	20.00	61.00	81.50	2.00	8.24
Japan	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.40	0.00	15.60	11.90	15.60	0.00	1.40
Mexico	Apr	NA	NA	NA	NA	NA	NA	NA
	May	5.15	27.00	18.50	27.00	45.50	1.50	3.65
Southeast Asia 7/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.76	31.71	16.40	38.80	46.60	0.98	3.29
South Korea	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.86	0.08	10.50	8.20	10.60	0.00	1.84
Selected Other								
Canada	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.02	15.40	1.00	9.50	14.70	1.50	2.22
China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	209.84	254.00	7.00	190.00	279.00	0.02	191.82

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. 3/ World imports and exports may not balance due to differences in marketing years, grain in transit, and reporting discrepancies in some countries. 4/ Argentina, Brazil, Russia, South Africa and Ukraine. 5/ Egypt, the European Union, Japan, Mexico, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 588 - 24

**World Rice Supply and Use (Milled Basis) 1/  
(Million Metric Tons)**

<b>2017/18</b>	Beginning Stocks	Production	Imports	Total /2 Domestic	Exports	Ending Stocks
World 3/	149.62	495.03	46.84	482.58	47.10	162.06
World Less China	51.12	346.15	41.34	340.10	45.71	53.06
United States	1.46	5.66	0.88	4.30	2.76	0.93
Total Foreign	148.16	489.37	45.97	478.28	44.34	161.13
Major Exporters 4/	27.64	181.84	0.76	144.92	36.45	28.88
Burma	0.55	13.20	0.01	10.20	2.75	0.81
India	20.55	112.91	0.00	98.82	12.04	22.60
Pakistan	1.34	7.50	0.00	3.40	4.01	1.42
Thailand	4.24	20.58	0.25	11.00	11.06	3.01
Vietnam	0.97	27.66	0.50	21.50	6.59	1.03
Major Importers 5/	108.57	241.03	21.35	248.30	1.82	120.83
China	98.50	148.87	5.50	142.49	1.39	109.00
European Union 6/	1.19	2.01	2.00	3.70	0.35	1.15
Indonesia	2.92	37.00	2.35	38.10	0.00	4.16
Nigeria	1.74	4.66	2.00	7.10	0.00	1.30
Philippines	2.00	12.24	1.30	13.25	0.00	2.29
Sel. Mideast 7/	0.86	2.22	3.63	5.81	0.00	0.91
Selected Other						0.00
Brazil	0.53	8.20	0.56	7.75	1.15	0.39
C. Amer & Carib 8/	0.68	1.64	1.66	3.27	0.04	0.68
Egypt	1.43	4.30	0.09	4.20	0.05	1.56
Japan	2.41	7.79	0.69	8.60	0.06	2.23
Mexico	0.17	0.18	0.81	0.87	0.10	0.20
South Korea	2.00	3.97	0.40	4.75	0.06	1.56

**2018/19 Est.**

World 3/	162.06	499.89	44.20	492.03	46.73	169.92
World Less China	53.06	351.40	40.20	347.74	44.53	54.92
United States	0.93	7.12	0.89	4.29	2.95	1.70
Total Foreign	161.13	492.77	43.31	487.74	43.78	168.22
Major Exporters 4/	28.88	184.93	0.66	147.15	35.80	31.51
Burma	0.81	13.10	0.01	10.25	2.80	0.87
India	22.60	116.00	0.00	101.10	12.50	25.00
Pakistan	1.42	7.40	0.00	3.50	4.00	1.32
Thailand	3.01	20.72	0.25	10.80	10.00	3.17
Vietnam	1.03	27.71	0.40	21.50	6.50	1.15
Major Importers 5/	120.83	242.64	17.40	251.40	2.61	126.87
China	109.00	148.49	4.00	144.29	2.20	115.00
European Union 6/	1.15	1.94	2.00	3.76	0.30	1.04
Indonesia	4.16	37.10	0.50	38.10	0.00	3.66
Nigeria	1.30	4.79	2.20	7.20	0.00	1.09
Philippines	2.29	12.00	3.00	13.90	0.00	3.39
Sel. Mideast 7/	0.91	2.01	3.85	5.90	0.00	0.87
Selected Other						0.00
Brazil	0.39	7.48	0.85	7.70	0.66	0.36
C. Amer & Carib 8/	0.68	1.69	1.76	3.41	0.04	0.67
Egypt	1.56	2.80	0.50	4.00	0.02	0.84
Japan	2.23	7.65	0.69	8.56	0.06	1.95
Mexico	0.20	0.19	0.82	0.89	0.09	0.22
South Korea	1.56	3.87	0.41	4.71	0.05	1.07

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. Total domestic includes both domestic use and unreported disappearance. 3/ World imports and exports may not balance due to differences in some countries. 4/ Burma, India, Pakistan, Thailand, and Vietnam. 5/ Bangladesh, China, Nigeria, European Union, Philippines, Cote d'Ivoire, Indonesia, Iran, Iraq, and Saudi Arabia. 6/ Trade excludes intra-trade. 7/ Selected Middle East includes Iran, Iraq, and Saudi Arabia. 8/ Central American and Caribbean countries.

**World Rice Supply and Use (Milled Basis) 1/ (Cont'd.)**  
**(Million Metric Tons)**

<b>2019/20 Proj.</b>		<b>Beginning Stocks</b>	<b>Production</b>	<b>Imports</b>	<b>Total /2 Domestic</b>	<b>Exports</b>	<b>Ending Stocks</b>
World 3/	Apr	NA	NA	NA	NA	NA	NA
	May	169.92	498.42	44.96	496.13	47.60	172.22
World Less China	Apr	NA	NA	NA	NA	NA	NA
	May	54.92	352.42	40.96	351.13	44.60	55.22
United States	Apr	NA	NA	NA	NA	NA	NA
	May	1.70	6.93	0.89	4.45	3.21	1.87
Total Foreign	Apr	NA	NA	NA	NA	NA	NA
	May	168.22	491.50	44.07	491.68	44.39	170.35
Major Exporters 4/	Apr	NA	NA	NA	NA	NA	NA
	May	31.51	184.90	0.66	148.90	35.80	32.37
Burma	Apr	NA	NA	NA	NA	NA	NA
	May	0.87	13.30	0.01	10.40	2.80	0.98
India	Apr	NA	NA	NA	NA	NA	NA
	May	25.00	115.00	0.00	102.00	12.50	25.50
Pakistan	Apr	NA	NA	NA	NA	NA	NA
	May	1.32	7.50	0.00	3.60	4.00	1.22
Thailand	Apr	NA	NA	NA	NA	NA	NA
	May	3.17	21.10	0.25	10.90	10.00	3.62
Vietnam	Apr	NA	NA	NA	NA	NA	NA
	May	1.15	28.00	0.40	22.00	6.50	1.05
Major Importers 5/	Apr	NA	NA	NA	NA	NA	NA
	May	126.87	241.25	17.33	253.01	3.40	129.03
China	Apr	NA	NA	NA	NA	NA	NA
	May	115.00	146.00	4.00	145.00	3.00	117.00
European Union 6/	Apr	NA	NA	NA	NA	NA	NA
	May	1.04	2.01	2.00	3.75	0.30	1.00
Indonesia	Apr	NA	NA	NA	NA	NA	NA
	May	3.66	37.40	0.50	38.00	0.00	3.56
Nigeria	Apr	NA	NA	NA	NA	NA	NA
	May	1.09	4.90	2.40	7.30	0.00	1.09
Philippines	Apr	NA	NA	NA	NA	NA	NA
	May	3.39	12.20	2.70	14.45	0.00	3.84
Sel. Mideast 7/	Apr	NA	NA	NA	NA	NA	NA
	May	0.87	2.03	3.93	6.06	0.00	0.78
Selected Other							
Brazil	Apr	NA	NA	NA	NA	NA	NA
	May	0.36	7.34	0.90	7.65	0.55	0.40
C. Amer & Carib 8/	Apr	NA	NA	NA	NA	NA	NA
	May	0.67	1.64	1.83	3.43	0.04	0.67
Egypt	Apr	NA	NA	NA	NA	NA	NA
	May	0.84	3.00	0.50	3.80	0.01	0.53
Japan	Apr	NA	NA	NA	NA	NA	NA
	May	1.95	7.70	0.69	8.48	0.06	1.79
Mexico	Apr	NA	NA	NA	NA	NA	NA
	May	0.22	0.20	0.79	0.91	0.10	0.20
South Korea	Apr	NA	NA	NA	NA	NA	NA
	May	1.07	3.88	0.41	4.50	0.06	0.81

1/ Aggregate of local marketing years. 2/ Total foreign and world use adjusted to reflect the differences in world imports and exports. Total domestic includes both domestic use and unreported disappearance. 3/ World imports and exports may not balance due to differences in some countries. 4/ Burma, India, Pakistan, Thailand, and Vietnam. 5/ Bangladesh, China, Nigeria, European Union, Philippines, Cote d'Ivoire, Indonesia, Iran, Iraq, and Saudi Arabia. 6/ Trade excludes intra-trade. 7/ Selected Middle East includes Iran, Iraq, and Saudi Arabia. 8/ Central American and Caribbean countries.

## WASDE - 588 - 26

**World Cotton Supply and Use 1/  
(Million 480-Pound Bales)**

<b>2017/18</b>	Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	80.42	123.78	41.05	122.77	40.93	0.47	81.08
World Less China	34.50	96.28	35.32	81.77	40.80	0.47	43.06
United States	2.75	20.92	3/	3.23	15.85	0.30	4.30
Total Foreign	77.67	102.86	41.05	119.54	25.08	0.17	76.78
Major Exporters 4/	22.03	57.10	2.46	32.75	21.72	0.02	27.11
Central Asia 5/	2.18	6.50	3/	3.38	2.60	0.00	2.71
Afr. Fr. Zone 6/	1.55	5.44	3/	0.14	4.99	0.00	1.87
S. Hemis. 7/	10.21	15.70	0.24	4.44	8.63	0.01	13.07
Australia	2.19	4.80	3/	0.04	3.92	0.00	3.04
Brazil	6.93	9.22	0.08	3.40	4.17	0.00	8.66
India	7.88	29.00	1.68	24.15	5.18	0.00	9.23
Major Importers 8/	54.17	42.93	35.96	82.76	2.34	0.15	47.81
Mexico	0.45	1.56	0.93	1.90	0.35	0.03	0.66
China	45.92	27.50	5.73	41.00	0.13	0.00	38.02
European Union 9/	0.18	1.53	0.73	0.76	1.37	0.06	0.25
Turkey	1.53	4.00	4.02	7.45	0.33	0.00	1.78
Pakistan	2.32	8.20	3.30	10.80	0.16	0.03	2.83
Indonesia	0.62	3/	3.50	3.50	0.01	0.00	0.62
Thailand	0.20	3/	1.15	1.13	0.00	0.03	0.20
Bangladesh	1.63	0.14	7.60	7.50	0.00	0.01	1.86
Vietnam	0.88	3/	7.00	6.70	0.00	0.00	1.19
<b>2018/19 Est.</b>							
World	81.08	118.43	42.03	122.71	42.03	0.33	76.47
World Less China	43.06	90.68	33.53	82.21	41.88	0.33	42.85
United States	4.30	18.37	0.01	3.10	14.75	0.17	4.65
Total Foreign	76.78	100.07	42.02	119.61	27.28	0.16	71.82
Major Exporters 4/	27.11	54.51	2.06	33.89	23.36	0.02	26.42
Central Asia 5/	2.71	5.48	3/	3.70	2.19	0.00	2.30
Afr. Fr. Zone 6/	1.87	5.41	3/	0.14	5.50	0.00	1.64
S. Hemis. 7/	13.07	17.49	0.19	4.56	11.09	0.01	15.09
Australia	3.04	2.50	3/	0.04	4.20	0.00	1.30
Brazil	8.66	12.80	0.05	3.50	5.80	0.00	12.21
India	9.23	25.50	1.40	24.80	4.20	0.00	7.13
Major Importers 8/	47.81	42.70	37.37	81.53	2.78	0.14	43.43
Mexico	0.66	1.69	0.85	1.95	0.50	0.03	0.72
China	38.02	27.75	8.50	40.50	0.15	0.00	33.62
European Union 9/	0.25	1.72	0.69	0.75	1.55	0.05	0.31
Turkey	1.78	3.70	3.00	6.50	0.45	0.00	1.53
Pakistan	2.83	7.70	3.00	10.60	0.13	0.03	2.78
Indonesia	0.62	3/	3.20	3.20	0.01	0.00	0.61
Thailand	0.20	3/	1.18	1.15	0.00	0.03	0.20
Bangladesh	1.86	0.14	8.00	8.00	0.00	0.01	1.98
Vietnam	1.19	3/	7.10	7.00	0.00	0.00	1.29

1/ Marketing year beginning August 1. Totals may not add exactly and trade may not balance due to rounding and other factors. 2/ Generally reflects cotton lost or destroyed in the marketing channel; for Australia, Brazil, China, and the United States, reflects the difference between implicit stocks based on supply less total use and indicated ending stocks. 3/ Less than 5,000 bales. 4/ Includes Egypt and Syria in addition to the countries and regions listed. 5/ Azerbaijan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan. 6/ Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Cote d'Ivoire, Mali, Niger, Senegal, and Togo. 7/ Argentina, Australia, Brazil, Lesotho, South Africa, Tanzania, Zambia, and Zimbabwe. 8/ In addition to the countries and regions listed, includes Japan, Russia, South Korea, and Taiwan. 9/ Includes intra-EU trade.

## WASDE - 588 - 27

**World Cotton Supply and Use 1/  
(Million 480-Pound Bales)**

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	Apr	NA	NA	NA	NA	NA	NA	NA
	May	76.47	125.45	45.35	125.93	45.35	0.31	75.69
World Less China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	42.85	97.70	34.35	84.43	45.22	0.31	44.94
United States	Apr	NA	NA	NA	NA	NA	NA	NA
	May	4.65	22.00	0.01	3.10	17.00	0.16	6.40
Total Foreign	Apr	NA	NA	NA	NA	NA	NA	NA
	May	71.82	103.45	45.35	122.83	28.35	0.16	69.29
Major Exporters 4/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	26.42	56.97	2.14	34.81	24.18	0.02	26.51
Central Asia 5/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.30	5.57	3/	3.99	1.79	0.00	2.10
Afr. Fr. Zone 6/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.64	6.01	3/	0.14	5.70	0.00	1.81
S. Hemis. 7/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	15.09	16.40	0.21	4.67	11.93	0.01	15.09
Australia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.30	2.20	3/	0.04	2.40	0.00	1.07
Brazil	Apr	NA	NA	NA	NA	NA	NA	NA
	May	12.21	12.00	0.08	3.60	8.20	0.00	12.48
India	Apr	NA	NA	NA	NA	NA	NA	NA
	May	7.13	28.50	1.40	25.30	4.50	0.00	7.23
Major Importers 8/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	43.43	43.52	40.60	83.79	2.90	0.14	40.72
Mexico	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.72	1.75	0.85	2.00	0.55	0.03	0.75
China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	33.62	27.75	11.00	41.50	0.13	0.00	30.74
European Union 9/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.31	1.78	0.67	0.73	1.69	0.05	0.29
Turkey	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.53	4.10	3.00	6.70	0.38	0.00	1.55
Pakistan	Apr	NA	NA	NA	NA	NA	NA	NA
	May	2.78	8.00	2.90	10.70	0.15	0.03	2.81
Indonesia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.61	3/	3.20	3.20	0.01	0.00	0.61
Thailand	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.20	3/	1.18	1.15	0.00	0.03	0.21
Bangladesh	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.98	0.14	8.40	8.40	0.00	0.01	2.11
Vietnam	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.29	3/	7.60	7.60	0.00	0.00	1.29

1/ Marketing year beginning August 1. Totals may not add exactly and trade may not balance due to rounding and other factors. 2/ Generally reflects cotton lost or destroyed in the marketing channel; for Australia, Brazil, China, and the United States, reflects the difference between implicit stocks based on supply less total use and indicated ending stocks. 3/ Less than 5,000 bales. 4/ Includes Egypt and Syria in addition to the countries and regions listed. 5/ Azerbaijan, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan. 6/ Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Cote d'Ivoire, Mali, Niger, Senegal, and Togo. 7/ Argentina, Australia, Brazil, Lesotho, South Africa, Tanzania, Zambia, and Zimbabwe. 8/ In addition to the countries and regions listed, includes Japan, Russia, South Korea, and Taiwan. 9/ Includes intra-EU trade.

## WASDE - 588 - 28

**World Soybean Supply and Use 1/  
(Million Metric Tons)**

<b>2017/18</b>		Beginning Stocks	Production	Imports	Domestic Crush	Domestic Total	Exports	Ending Stocks
World 2/		96.16	341.54	152.92	295.14	338.56	152.96	99.10
World Less China		75.50	326.34	58.82	205.14	232.26	152.82	75.58
United States		8.21	120.07	0.59	55.93	59.00	57.95	11.92
Total Foreign		87.95	221.48	152.32	239.22	279.56	95.01	87.18
Major Exporters 3/		60.64	171.43	4.89	85.39	94.17	85.57	57.23
Argentina		27.00	37.80	4.70	36.93	43.63	2.11	23.75
Brazil		33.21	122.00	0.18	44.52	46.51	76.18	32.70
Paraguay		0.44	10.30	0.01	3.87	3.94	6.03	0.77
Major Importers 4/		23.34	19.11	124.51	116.06	140.35	0.43	26.17
China		20.66	15.20	94.10	90.00	106.30	0.13	23.52
European Union		1.15	2.54	14.58	14.95	16.60	0.28	1.40
Southeast Asia		1.15	0.69	7.71	3.46	8.64	0.02	0.88
Mexico		0.15	0.43	4.87	5.25	5.29	0.00	0.17
<b>2018/19 Est.</b>								
World 2/		99.10	362.08	149.56	301.63	347.25	150.30	113.18
World Less China		75.58	346.18	63.56	215.63	244.15	150.18	90.99
United States		11.92	123.66	0.46	57.15	60.66	48.31	27.09
Total Foreign		87.18	238.41	149.09	244.47	286.59	102.00	86.10
Major Exporters 3/		57.23	183.98	6.51	88.68	98.31	92.30	57.11
Argentina		23.75	56.00	6.35	42.00	48.90	6.30	30.90
Brazil		32.70	117.00	0.15	42.70	45.35	78.50	26.00
Paraguay		0.77	9.00	0.01	3.90	3.98	5.60	0.20
Major Importers 4/		26.17	19.79	119.12	114.40	139.69	0.36	25.03
China		23.52	15.90	86.00	86.00	103.10	0.13	22.20
European Union		1.40	2.68	15.50	16.30	17.96	0.20	1.42
Southeast Asia		0.88	0.66	9.09	4.20	9.56	0.04	1.03
Mexico		0.17	0.34	5.23	5.50	5.54	0.00	0.20
<b>2019/20 Proj.</b>								
World 2/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	113.18	355.66	150.82	308.20	355.42	151.15	113.09
World Less China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	90.99	338.66	63.82	222.20	251.72	151.03	90.72
United States	Apr	NA	NA	NA	NA	NA	NA	NA
	May	27.09	112.95	0.54	57.56	61.09	53.07	26.41
Total Foreign	Apr	NA	NA	NA	NA	NA	NA	NA
	May	86.10	242.72	150.27	250.64	294.33	98.08	86.68
Major Exporters 3/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	57.11	188.10	4.11	92.78	102.76	90.03	56.53
Argentina	Apr	NA	NA	NA	NA	NA	NA	NA
	May	30.90	53.00	3.90	45.00	52.15	7.00	28.65
Brazil	Apr	NA	NA	NA	NA	NA	NA	NA
	May	26.00	123.00	0.20	43.75	46.50	75.00	27.70
Paraguay	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.20	10.20	0.01	3.95	4.03	6.20	0.18
Major Importers 4/	Apr	NA	NA	NA	NA	NA	NA	NA
	May	25.03	21.07	121.24	115.01	141.16	0.39	25.78
China	Apr	NA	NA	NA	NA	NA	NA	NA
	May	22.20	17.00	87.00	86.00	103.70	0.13	22.37
European Union	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.42	2.78	15.10	16.00	17.66	0.23	1.41
Southeast Asia	Apr	NA	NA	NA	NA	NA	NA	NA
	May	1.03	0.64	9.99	4.63	10.24	0.04	1.37
Mexico	Apr	NA	NA	NA	NA	NA	NA	NA
	May	0.20	0.40	5.80	5.95	5.99	0.00	0.41

1/ Data based on local marketing years except Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil, Paraguay, and Uruguay. 4/ China, European Union, Japan, Mexico, and Southeast Asia (includes Indonesia, Malaysia, Philippines, Vietnam, and Thailand). Totals may not add due to rounding.

## WASDE - 588 - 29

**World Soybean Meal Supply and Use 1/  
(Million Metric Tons)**

<b>2017/18</b>		Beginning Stocks	Production	Imports	Domestic Total	Exports	Ending Stocks
World 2/		13.24	232.35	59.99	229.23	63.92	12.43
World Less China		13.24	161.07	59.97	159.13	62.72	12.43
United States		0.36	44.66	0.45	32.21	12.75	0.50
Total Foreign		12.87	187.69	59.54	197.02	51.17	11.92
Major Exporters 3/		7.24	68.59	0.03	25.51	43.26	7.09
Argentina		3.34	27.93	0.00	3.00	25.35	2.92
Brazil		3.32	34.50	0.02	17.71	16.06	4.06
India		0.58	6.16	0.01	4.80	1.84	0.11
Major Importers 4/		1.90	20.48	38.62	58.96	0.66	1.38
European Union		0.49	11.81	18.35	30.04	0.40	0.21
Mexico		0.04	4.15	1.82	5.95	0.02	0.04
Southeast Asia 5/		1.28	2.70	16.72	19.42	0.25	1.04
<b>2018/19 Est.</b>							
World 2/		12.43	236.34	62.88	232.74	66.37	12.54
World Less China		12.43	168.22	62.85	165.50	65.47	12.54
United States		0.50	44.54	0.45	32.61	12.47	0.41
Total Foreign		11.92	191.80	62.43	200.13	53.90	12.13
Major Exporters 3/		7.09	72.50	0.04	26.92	45.65	7.07
Argentina		2.92	31.80	0.00	3.19	28.10	3.44
Brazil		4.06	33.10	0.03	18.13	15.70	3.36
India		0.11	7.60	0.02	5.60	1.85	0.28
Major Importers 4/		1.38	22.31	39.77	61.21	0.58	1.67
European Union		0.21	12.88	18.70	31.04	0.35	0.40
Mexico		0.04	4.35	2.00	6.33	0.02	0.05
Southeast Asia 5/		1.04	3.28	17.30	20.27	0.22	1.13
<b>2019/20 Proj.</b>							
World 2/	Apr	NA	NA	NA	NA	NA	NA
	May	12.54	241.72	65.11	238.45	68.83	12.09
World Less China	Apr	NA	NA	NA	NA	NA	NA
	May	12.54	173.61	65.06	171.19	67.93	12.09
United States	Apr	NA	NA	NA	NA	NA	NA
	May	0.41	45.18	0.32	33.20	12.34	0.36
Total Foreign	Apr	NA	NA	NA	NA	NA	NA
	May	12.13	196.54	64.79	205.25	56.49	11.73
Major Exporters 3/	Apr	NA	NA	NA	NA	NA	NA
	May	7.07	75.55	0.04	28.00	48.05	6.61
Argentina	Apr	NA	NA	NA	NA	NA	NA
	May	3.44	34.00	0.00	3.30	31.00	3.14
Brazil	Apr	NA	NA	NA	NA	NA	NA
	May	3.36	33.95	0.03	18.95	15.20	3.19
India	Apr	NA	NA	NA	NA	NA	NA
	May	0.28	7.60	0.02	5.75	1.85	0.29
Major Importers 4/	Apr	NA	NA	NA	NA	NA	NA
	May	1.67	22.79	40.81	62.88	0.60	1.79
European Union	Apr	NA	NA	NA	NA	NA	NA
	May	0.40	12.64	19.00	31.34	0.35	0.35
Mexico	Apr	NA	NA	NA	NA	NA	NA
	May	0.05	4.70	2.13	6.75	0.02	0.12
Southeast Asia 5/	Apr	NA	NA	NA	NA	NA	NA
	May	1.13	3.61	17.90	21.19	0.23	1.23

1/ Data based on local marketing years except for Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil, and India. 4/ European Union, Southeast Asia, and Japan. 5/ Indonesia, Malaysia, Philippines, Vietnam, and Thailand. Totals may not add due to rounding.

## WASDE - 588 - 30

**World Soybean Oil Supply and Use 1/  
(Million Metric Tons)**

<b>2017/18</b>		Beginning Stocks	Production	Imports	Domestic Total	Exports	Ending Stocks
World 2/		3.79	55.17	9.72	54.63	10.51	3.54
World Less China		3.12	39.04	9.23	38.13	10.30	2.97
United States		0.78	10.78	0.15	9.70	1.11	0.91
Total Foreign		3.02	44.39	9.56	44.94	9.40	2.64
Major Exporters 3/		0.74	19.35	0.33	12.28	7.25	0.89
Argentina		0.28	7.24	0.00	3.08	4.13	0.31
Brazil		0.29	8.54	0.05	6.94	1.51	0.42
European Union		0.16	2.84	0.28	2.23	0.90	0.16
Major Importers 4/		1.37	18.43	5.78	24.41	0.27	0.89
China		0.67	16.13	0.48	16.50	0.21	0.57
India		0.48	1.39	2.98	4.72	0.01	0.12
North Africa 5/		0.13	0.70	1.53	2.18	0.06	0.13
<b>2018/19 Est.</b>							
World 2/		3.54	56.54	10.95	56.24	11.21	3.58
World Less China		2.97	41.13	10.05	39.99	11.09	3.07
United States		0.91	11.15	0.18	10.41	0.98	0.85
Total Foreign		2.64	45.40	10.76	45.83	10.24	2.73
Major Exporters 3/		0.89	20.23	0.38	12.52	8.01	0.97
Argentina		0.31	8.20	0.00	3.08	5.10	0.33
Brazil		0.42	8.20	0.05	7.13	1.20	0.34
European Union		0.16	3.10	0.33	2.28	1.00	0.30
Major Importers 4/		0.89	18.09	6.71	24.57	0.21	0.91
China		0.57	15.41	0.90	16.25	0.13	0.51
India		0.12	1.71	3.40	5.00	0.01	0.23
North Africa 5/		0.13	0.73	1.63	2.28	0.08	0.13
<b>2019/20 Proj.</b>							
World 2/	Apr	NA	NA	NA	NA	NA	NA
	May	3.58	57.69	11.43	57.44	11.77	3.48
World Less China	Apr	NA	NA	NA	NA	NA	NA
	May	3.07	42.27	10.33	41.05	11.64	2.98
United States	Apr	NA	NA	NA	NA	NA	NA
	May	0.85	11.13	0.20	10.71	0.82	0.66
Total Foreign	Apr	NA	NA	NA	NA	NA	NA
	May	2.73	46.56	11.23	46.74	10.95	2.83
Major Exporters 3/	Apr	NA	NA	NA	NA	NA	NA
	May	0.97	20.97	0.38	12.68	8.62	1.03
Argentina	Apr	NA	NA	NA	NA	NA	NA
	May	0.33	8.80	0.00	3.14	5.65	0.34
Brazil	Apr	NA	NA	NA	NA	NA	NA
	May	0.34	8.39	0.05	7.20	1.25	0.32
European Union	Apr	NA	NA	NA	NA	NA	NA
	May	0.30	3.04	0.33	2.31	1.00	0.36
Major Importers 4/	Apr	NA	NA	NA	NA	NA	NA
	May	0.91	18.16	7.06	24.97	0.21	0.94
China	Apr	NA	NA	NA	NA	NA	NA
	May	0.51	15.41	1.10	16.39	0.13	0.50
India	Apr	NA	NA	NA	NA	NA	NA
	May	0.23	1.71	3.50	5.20	0.01	0.23
North Africa 5/	Apr	NA	NA	NA	NA	NA	NA
	May	0.13	0.73	1.66	2.32	0.08	0.12

1/ Data based on local marketing years except for Argentina and Brazil which are adjusted to an October-September year. 2/ World imports and exports may not balance due to differences in local marketing years and to time lags between reported exports and imports. Therefore, world supply may not equal world use. 3/ Argentina, Brazil and European Union. 4/ China, India, and North Africa. 5/ Algeria, Egypt, Morocco, and Tunisia. Totals may not add due to rounding.

## WASDE - 588 - 31

## U.S. Quarterly Animal Product Production 1/

Year and Quarter		Beef	Pork	Red Meat 2/	Broiler	Turkey	Total Poultry 3/	Red Meat & Poultry	Egg	Milk	
		<i>Million Pounds</i>								<i>Mil doz</i>	<i>Bil lbs</i>
2018	II	6,726	6,325	13,107	10,687	1,477	12,303	25,410	2,262	55.8	
	III	6,819	6,315	13,189	10,940	1,431	12,515	25,704	2,300	54.0	
	IV	6,862	7,031	13,952	10,588	1,518	12,239	26,191	2,331	53.4	
	Annual	26,872	26,315	53,417	42,601	5,878	49,018	102,435	9,115	217.6	
2019	I	6,414	6,838	13,308	10,381	1,446	11,953	25,261	2,307	54.5	
	II*	6,790	6,550	13,397	10,760	1,455	12,353	25,750	2,345	56.0	
	III*	7,040	6,695	13,790	11,100	1,460	12,701	26,491	2,325	54.2	
	IV*	7,025	7,240	14,323	10,750	1,520	12,403	26,726	2,385	54.0	
	Annual										
	Apr Proj.	27,280	27,325	54,833	43,010	5,860	49,412	104,245	9,285	219.5	
	May Proj.	27,269	27,323	54,818	42,991	5,881	49,410	104,228	9,362	218.7	
2020	I*	6,480	7,080	13,617	10,475	1,460	12,061	25,678	2,320	55.8	
	Annual										
	Apr Proj.	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	May Proj.	27,510	28,285	56,023	43,550	5,940	50,036	106,059	9,440	222.7	

\* Projection. 1/ Commercial production for red meats; federally inspected for poultry meats. 2/ Beef, pork, veal and lamb & mutton. 3/ Broilers, turkeys and mature chicken.

## U.S. Quarterly Prices for Animal Products

Year and Quarter		Steers 2/	Barrows and gilts 3/	Broilers 4/	Turkeys 5/	Eggs 6/	Milk 7/
		<i>Dol./cwt</i>	<i>Dol./cwt</i>	<i>Cents/lb.</i>	<i>Cents/lb.</i>	<i>Cents/doz.</i>	<i>Dol./cwt</i>
2018	II	116.72	47.91	115.1	79.6	124.4	16.07
	III	110.83	43.90	93.7	80.4	120.8	16.17
	IV	115.32	42.77	86.7	81.4	125.6	17.07
	Annual	117.12	45.93	97.8	80.2	137.6	16.26
2019	I	125.27	40.67	94.0	82.8	107.3	16.97
	II*	121.00	59.00	104.0	84.0	70.0	17.75
	III*	113.00	62.00	91.0	86.0	80.0	18.40
	IV*	114.00	57.00	83.0	90.0	90.0	19.00
	Annual						
	Apr Proj.	119.50	46.00	96.00	87.00	105.50	17.50
	May Proj.	118.5	54.5	93.0	85.5	87.0	18.05
2020	I*	126.00	58.00	95.0	84.0	100.0	18.75
	Annual						
	Apr Proj.	NA	NA	NA	NA	NA	NA
	May Proj.	121	60	97	88	105	18.80

\*Projection. 1/ Simple average of months. 2/ 5-Area, Direct, Total all grades 3/ National Base, Live equiv 51-52% lean. 4/ Wholesale, National Composite Weighted Average. 5/ 8-16 lbs, hens National. 6/ Grade A large, New York, volume buyers. 7/ Prices received by farmers for all milk.

## WASDE - 588 - 32

## U.S. Meats Supply and Use

		Beginning Production		Imports	Total Supply	Exports	Ending Stocks	Total Use	Per Capita
		stocks	1/						
<i>Million Pounds /4</i>									
Beef	2018	649	26,938	2,998	30,585	3,156	662	26,767	57.2
	2019 Proj. Apr	662	27,343	3,010	31,015	3,255	675	27,085	57.6
	May	662	27,335	3,013	31,010	3,171	675	27,165	57.7
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	675	27,576	2,960	31,211	3,245	660	27,306	57.7
Pork	2018	554	26,330	1,042	27,926	5,870	559	21,497	50.9
	2019 Proj. Apr	559	27,339	1,005	28,903	6,175	540	22,188	52.3
	May	559	27,337	1,004	28,900	6,246	540	22,114	52.1
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	540	28,299	965	29,804	6,675	555	22,574	52.9
Total Red Meat 5/	2018	1,246	53,507	4,313	59,066	9,032	1,266	48,769	109.5
	2019 Proj. Apr	1,266	54,920	4,287	60,473	9,437	1,256	49,780	111.2
	May	1,266	54,907	4,282	60,455	9,424	1,256	49,775	111.1
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	1,256	56,113	4,196	61,565	9,927	1,257	50,381	111.9
Broiler	2018	856	42,145	139	43,140	7,068	845	35,227	92.4
	2019 Proj. Apr	845	42,550	137	43,531	7,145	880	35,506	92.6
	May	845	42,531	133	43,509	7,107	845	35,557	92.7
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	845	43,084	132	44,061	7,250	840	35,971	93.2
Turkey	2018	310	5,878	19	6,207	611	303	5,293	16.2
	2019 Proj. Apr	303	5,860	16	6,179	610	305	5,264	16.0
	May	303	5,881	16	6,199	612	305	5,283	16.0
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	305	5,940	16	6,261	630	305	5,326	16.1
Total Poultry 6/	2018	1,170	48,562	160	49,892	7,763	1,153	40,976	110.0
	2019 Proj. Apr	1,153	48,951	157	50,261	7,823	1,191	41,247	110.0
	May	1,153	48,950	152	50,254	7,788	1,156	41,310	110.2
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	1,156	49,569	151	50,876	7,952	1,150	41,774	110.7
Red Meat & Poultry	2018	2,416	102,069	4,473	108,958	16,794	2,419	89,745	219.5
	2019 Proj. Apr	2,419	103,871	4,444	110,734	17,260	2,447	91,027	221.2
	May	2,419	103,857	4,433	110,709	17,212	2,412	91,085	221.3
	2020 Proj. Apr	NA	NA	NA	NA	NA	NA	NA	NA
	May	2,412	105,682	4,347	112,441	17,879	2,407	92,155	222.6

1/ Total including farm production for red meats and, for poultry, federally inspected plus non-federally inspected, less condemnations. 2/ Pounds, retail-weight basis for red meat and broilers; certified ready-to-cook weight for turkey. 3/ Population source: Dept. of Commerce. 4/ Carcass weight for red meats and certified ready-to-cook weight for poultry. 5/ Beef, pork, veal, lamb and mutton. 6/ Broilers, turkeys and mature chicken.

## WASDE - 588 - 33

## U.S. Egg Supply and Use

	2017	2018	2019 Proj.	2019 Proj.	2020 Proj.	2020 Proj.
			Apr	May	Apr	May
<b>Eggs</b>	<i>Million Dozen</i>					
<b>Supply</b>						
Beginning Stocks	142.2	87.5	78.8	78.8	NA	92.0
Production	8,890.6	9,114.6	9,285.0	9,361.8	NA	9,440.0
Imports	34.2	17.8	19.0	18.1	NA	18.0
<b>Total Supply</b>	<b>9,067.0</b>	<b>9,219.9</b>	<b>9,382.8</b>	<b>9,458.7</b>	<b>NA</b>	<b>9,550.0</b>
<b>Use</b>						
Exports	354.9	333.1	320.0	281.8	NA	280.0
Hatching Use	1,035.2	1,057.5	1,090.0	1,076.3	NA	1,090.0
Ending Stocks	87.5	78.8	92.0	92.0	NA	95.0
Disappearance						
<b>Total</b>	<b>7,589.4</b>	<b>7,750.5</b>	<b>7,880.8</b>	<b>8,008.6</b>	<b>NA</b>	<b>8,085.0</b>
Per Capita (number)	279.9	284.0	287.1	291.7	NA	292.8

## U.S. Milk Supply and Use

	2017	2018	2019 Proj.	2019 Proj.	2020 Proj.	2020 Proj.
			Apr	May	Apr	May
<b>Milk</b>	<i>Billion Pounds</i>					
<b>Production</b>						
Farm Use	1.0	1.0	1.0	1.0	NA	1.0
<b>Fat Basis Supply</b>						
Beg. Commercial Stocks	12.7	13.4	13.9	13.8	NA	13.0
Marketings	214.5	216.6	218.6	217.7	NA	221.7
Imports	6.0	6.3	6.5	6.5	NA	6.6
<b>Total Cml. Supply</b>	<b>233.2</b>	<b>236.3</b>	<b>239.0</b>	<b>238.0</b>	<b>NA</b>	<b>241.3</b>
<b>Fat Basis Use</b>						
Commercial Exports	9.2	10.4	9.8	10.2	NA	10.4
Ending Commercial Stocks	13.4	13.8	13.4	13.0	NA	13.1
CCC Donations	0.0	0.0	0.2	0.2	NA	0.0
<b>Domestic Commercial Use</b>	<b>210.6</b>	<b>212.2</b>	<b>215.6</b>	<b>214.6</b>	<b>NA</b>	<b>217.8</b>
<b>Skim-solid Basis Supply</b>						
Beg. Commercial Stocks	9.5	11.8	10.5	10.7	NA	10.2
Marketings	214.5	216.6	218.6	217.7	NA	221.7
Imports	6.1	5.5	5.3	5.1	NA	5.0
<b>Total Cml. Supply</b>	<b>230.2</b>	<b>233.9</b>	<b>234.3</b>	<b>233.5</b>	<b>NA</b>	<b>236.9</b>
<b>Skim-solid Basis Use</b>						
Commercial Exports	40.8	44.7	42.2	42.6	NA	43.6
Ending Commercial Stocks	11.8	10.7	10.4	10.2	NA	10.3
CCC Donations	0.0	0.0	0.2	0.2	NA	0.0
<b>Domestic Commercial Use</b>	<b>177.5</b>	<b>178.6</b>	<b>181.5</b>	<b>180.5</b>	<b>NA</b>	<b>183.0</b>

Note: Totals may not add due to rounding.

## WASDE - 588 - 34

## U.S. Dairy Prices

	2017	2018	2019 Proj. Apr	2019 Proj. May	2020 Proj. Apr	2020 Proj. May
Product Prices 1/	<i>Dollars Per Pound</i>					
Cheese	1.6344	1.5377	1.580	1.650	NA	1.710
Butter	2.3303	2.2572	2.295	2.290	NA	2.360
Nonfat Dry Milk	0.8666	0.7945	0.985	1.005	NA	1.045
Dry Whey	0.4437	0.3422	0.395	0.395	NA	0.380
	<i>Dollars Per Cwt</i>					
Milk Prices 2/						
Class III	16.17	14.61	15.35	16.05	NA	16.55
Class IV	15.16	14.23	16.05	16.20	NA	16.80
All Milk 3/	17.65	16.26	17.50	18.05	NA	18.80

1/ Simple average of monthly prices calculated by AMS from weekly average dairy product prices for class price computations. 2/ Annual Class III and Class IV prices are the simple averages of monthly minimum Federal order milk prices paid by regulated plants for milk used in the respective classes. All milk price is the simple average of monthly prices received by farmers for milk at average test. 3/ Does not reflect any deductions from producers as authorized by legislation.

## WASDE - 588 - 35

## Reliability of May Projections 1/

Note: Tables on pages 35-37 present 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 3.1 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 5.3 percent. The average difference between the May projection and the final estimate is 16.6 million tons, ranging from 1.7 million to 35 million tons. The May projection has been below the estimate 23 times and above 15 times.

	Differences between forecast and final estimate							
	Root mean square error	90 percent confidence interval	Average	Smallest	Largest	Years Below Final	Years Above Final	
	<i>Percent</i>		<i>Million Metric Tons</i>					
<b>WHEAT</b>								
Production								
World	3.1	5.3	16.6	1.7	35.0	23	15	
U.S.	6.7	11.4	3.0	0.0	9.8	20	18	
Foreign	3.3	5.6	15.3	1.6	32.9	22	16	
Exports								
World	6.1	10.3	6.1	0.1	17.6	26	12	
U.S.	12.5	21.2	3.0	0.0	10.2	21	16	
Foreign	7.0	11.9	5.7	0.4	17.8	27	11	
Domestic Use								
World	2.2	3.7	10.3	0.3	28.3	24	14	
U.S.	7.3	12.4	1.8	0.2	6.4	18	20	
Foreign	2.2	3.7	9.8	0.2	28.0	25	13	
Ending Stocks								
World	10.2	17.3	12.5	0.3	35.9	24	14	
U.S.	20.8	35.3	3.6	0.1	14.1	22	16	
Foreign	10.3	17.5	10.6	2.5	31.0	23	15	
<b>COARSE GRAINS 2/</b>								
Production								
World	3.7	6.3	26.7	1.1	103.6	19	19	
U.S.	14.1	23.8	20.6	0.9	103.8	21	17	
Foreign	2.8	4.7	14.8	0.2	42.8	17	21	
Exports								
World	7.6	13.0	7.7	1.3	20.9	27	11	
U.S.	27.5	46.7	8.2	0.1	29.5	17	21	
Foreign	13.8	23.4	6.7	0.3	20.8	26	12	
Domestic Use								
World	2.1	3.5	15.6	0.4	68.4	20	18	
U.S.	6.0	10.1	8.0	0.2	38.4	24	14	
Foreign	2.1	3.5	12.2	0.5	32.8	20	18	
Ending Stocks								
World	21.4	36.3	25.7	2.6	155.8	24	14	
U.S.	55.4	94.1	16.8	1.3	57.6	19	19	
Foreign	18.8	31.9	15.0	0.0	145.0	26	12	
<b>RICE, milled</b>								
Production								
World	2.4	4.1	7.1	0.0	21.8	23	15	
U.S.	7.5	12.8	0.4	0.0	1.0	21	17	
Foreign	2.5	4.2	7.1	0.4	22.0	23	15	
Exports								
World	9.7	16.4	1.7	0.1	7.5	28	10	
U.S.	11.9	20.2	0.3	0.0	1.0	19	14	
Foreign	10.4	17.6	1.6	0.2	7.1	28	10	
Domestic Use								
World	1.9	3.2	4.7	0.0	19.4	26	12	
U.S.	9.3	15.9	0.2	0.0	0.6	14	23	
Foreign	1.9	3.2	4.7	0.2	20.0	27	11	
Ending Stocks								
World	14.4	24.5	6.4	0.1	26.7	26	12	
U.S.	32.8	55.7	0.3	0.0	0.9	20	16	
Foreign	15.8	26.7	6.4	0.1	26.3	26	12	

1/ Footnotes at end of table.

CONTINUED

## WASDE - 588 - 36

## Reliability of May Projections (Continued) 1/

	Differences between forecast and final estimate						
	Root mean square error	90 percent confidence interval	Average	Smallest	Largest	Years Below Final	Years Above Final
SOYBEANS	<i>Percent</i>		<i>Million Metric Tons</i>				
Production							
World	NA	NA	10.9	1.5	23.1	6	4
U.S.	8.8	15.0	4.6	0.0	13.8	20	18
Foreign	NA	NA	7.3	0.7	16.9	7	3
Exports							
World	NA	NA	5.9	0.6	10.6	8	2
U.S.	15.8	26.8	3.3	0.0	11.3	20	17
Foreign	NA	NA	3.7	0.7	12.3	8	2
Domestic Use							
World	NA	NA	6.5	1.2	12.1	5	5
U.S.	6.4	10.8	2.0	0.2	7.5	24	14
Foreign	NA	NA	6.1	0.2	11.3	5	5
Ending Stocks							
World	NA	NA	9.9	2.0	20.7	6	4
U.S.	60.1	102.0	3.1	0.2	13.1	13	25
Foreign	NA	NA	7.4	0.1	15.7	7	3
COTTON	<i>Million 480-Pound Bales</i>						
Production							
World	6.3	10.7	4.4	0.1	16.7	23	15
U.S.	11.1	18.9	1.6	0.1	5.5	19	19
Foreign	6.4	10.8	3.5	0.1	12.2	21	17
Exports							
World	10.2	17.3	2.2	0.1	12.4	22	16
U.S.	29.8	50.6	1.4	0.1	3.9	23	15
Foreign	13.2	22.4	1.6	0.1	10.4	21	17
Domestic Use							
World	4.5	7.6	3.1	0.1	17.2	15	23
U.S.	9.6	16.2	0.5	0.0	1.4	17	20
Foreign	4.5	7.7	3.0	0.0	16.6	17	21
Ending Stocks							
World	17.8	30.2	6.4	1.0	18.1	25	13
U.S.	43.4	73.6	1.5	0.0	4.3	17	21
Foreign	16.9	28.6	5.4	0.1	17.2	25	13

1/ Marketing years 1981/82 through 2018/19 for grains, soybeans (U.S. only), and cotton. Marketing years 2009/10 through 2018/19 for global and foreign soybeans. Final for grains, soybeans, and cotton is defined as the first November estimate following the marketing year for 1981/82 through 2017/18, and for 2018/19 the last month's estimate. 2/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain.

## WASDE - 588 - 37

## Reliability of United States May Projections 1/

	Differences between forecast and final estimate						
	Root mean square error	90 percent confidence interval	Average	Smallest	Largest	Years Below Final	Years Above Final
<b>CORN</b>	<i>Percent</i>		<i>Million Bushels</i>				
Production	14.9	25.3	730	8	4,010	17	21
Exports	28.7	48.7	298	0	1,100	18	19
Domestic Use	6.4	10.8	313	11	1,538	25	13
Ending Stocks	66.6	112.9	602	41	2,091	19	19
<b>SORGHUM</b>							
Production	20.3	34.4	87	0	228	18	19
Exports	35.7	60.6	46	0	190	18	19
Domestic Use	25.6	43.4	55	0	162	16	21
Ending Stocks	71.1	120.7	49	1	238	15	23
<b>BARLEY</b>							
Production	14.3	24.2	27	1	206	15	23
Exports	77.5	131.5	14	0	92	19	15
Domestic Use	11.5	19.4	29	0	95	17	20
Ending Stocks	22.4	38.0	23	0	78	18	19
<b>OATS</b>							
Production	25.7	43.5	31	1	231	9	29
Exports	112.0	190.1	1	0	8	9	12
Domestic Use	10.7	18.2	20	0	160	13	24
Ending Stocks	36.0	61.1	17	0	77	12	23
<b>SOYBEAN MEAL</b>			<i>Thousand Short Tons</i>				
Production	5.7	9.7	1,317	0	5,344	24	13
Exports	17.9	30.4	987	0	2,750	23	14
Domestic Use	4.5	7.6	852	24	4,950	20	18
Ending Stocks	42.7	72.5	56	0	388	12	15
<b>SOYBEAN OIL</b>			<i>Million Pounds</i>				
Production	5.4	9.2	658	18	2,500	27	11
Exports	35.4	60.1	477	25	1,700	21	17
Domestic Use	4.0	6.8	463	8	1,800	23	15
Ending Stocks	36.8	62.4	457	24	1,702	23	15
<b>ANIMAL PROD.</b>			<i>Million Pounds</i>				
Beef	3.9	6.7	759	40	2,727	17	8
Pork	3.3	5.6	505	61	1,722	15	9
Broilers	2.4	4.1	656	75	1,640	11	14
Turkeys	4.1	7.0	174	2	500	12	13
			<i>Million Dozen</i>				
Eggs	1.6	2.8	99	2	300	16	9
			<i>Billion Pounds</i>				
Milk	1.5	2.6	2.0	0.0	6.7	11	9

1/ See pages 35 and 36 for record of reliability for U.S. wheat, rice, soybeans, and cotton. Marketing years 1981/82 through 2018/19 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 2017/18, and for 2018/19 the last month's estimate. Calendar years 1994 through 2018 for meats, eggs, and milk. Final for animal products is defined as the latest annual production estimate published by NASS for 1994-2018.

---

## Related USDA Reports

---

The *WASDE* report incorporates information from a number of statistical reports published by USDA and other government agencies. In turn, the *WASDE* report provides a framework for more detailed reports issued by USDA's Economic Research Service and Foreign Agricultural Service. For more information on how the *WASDE* report is prepared, go to: <http://www.usda.gov/oce/commodity/wasde>.

---

## Supply and Demand Database

---

The Foreign Agricultural Service publishes Production, Supply, and Demand Online, a comprehensive database of supply and demand balances by commodity for 190 countries and regions at <https://apps.fas.usda.gov/psdonline/app/index.html>. Data for grains, oilseeds, and cotton are updated monthly and data for other commodities are updated less frequently.

---

## Foreign Production Assessments

---

Preliminary foreign production assessments and satellite imagery analysis used to prepare the *WASDE* report are provided by the Production Estimates and Crop Assessment Division (PECAD) of the Foreign Agricultural Service. PECAD is located at [www.pecad.fas.usda.gov/](http://www.pecad.fas.usda.gov/).

---

## Metric Conversion Factors

---

**1 Hectare = 2.4710 Acres**

**1 Kilogram = 2.20462 Pounds**

<b>Metric-Ton Equivalent</b>	<b>= Domestic Unit</b>	<b>Factor</b>
Wheat & Soybeans	bushels	.027216
Rice	cwt	.045359
Corn, Sorghum, & Rye	bushels	.025401
Barley	bushels	.021772
Oats	bushels	.014515
Sugar	short tons	.907185
Cotton	480-lb bales	.217720



**For complete WASDE tables and previous month's report visit**

<https://www.usda.gov/oce/commodity/wasde/>

**To subscribe to receive WASDE-related notifications** by email or text message visit

[https://public.govdelivery.com/accounts/USDAOCS/subscriber/new?topic\\_id=USDAOCS\\_223](https://public.govdelivery.com/accounts/USDAOCS/subscriber/new?topic_id=USDAOCS_223).

**Previous WASDE reports are available at**

<https://usda.library.cornell.edu/concern/publications/3t945q76s?locale=en>

For questions contact: Mirvat Sewadeh at 202-720-5447 or [msewadeh@oce.usda.gov](mailto:msewadeh@oce.usda.gov)

## **World Agricultural Supply and Demand Estimates**

**WASDE-588 – May 10, 2019**

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.