

# World Agricultural Supply and Demand Estimates

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

WASDE - 594

Approved by the World Agricultural Outlook Board

November 8, 2019

**WHEAT:** The outlook for 2019/20 U.S. wheat this month is for smaller supplies, reduced domestic use, and lower stocks. Wheat supplies are decreased 42 million bushels, based on updated production estimates for the States resurveyed following the NASS *Small Grains Summary*, issued September 30. Adjustments to production in these States, where significant acreage remained unharvested in early September, lowers production estimates for Hard Red Spring wheat, White wheat, and Durum with most reductions occurring in North Dakota and Montana. Estimated seed use is reduced 7 million bushels to 61 million, reflecting a projected 2020/21 all wheat planted acreage of 45.0 million. Food use is lowered 5 million bushels to 955 million, primarily based on the NASS *Flour Milling Products* report, issued November 1. Projected 2019/20 wheat stocks are reduced 29 million bushels to 1,014 million. The season-average farm price is reduced \$0.10 per bushel to \$4.60, based on NASS prices reported to date and expectations for cash and futures prices the remainder of the 2019/20 marketing year.

The global outlook for wheat this month is for higher supplies, increased exports, fractionally greater consumption, and higher ending stocks. Supplies are raised with increased production forecasts for the EU, Russia, and Ukraine more than offsetting reductions for Argentina and Australia. EU and Russia production forecasts are raised to 153.0 and 74.0 million tons, respectively, on updated harvest results. Australia's production is lowered to 17.2 million tons on further damage from the continent's severe drought and is now forecast lower than last year's drought-affected crop. Argentina's production is reduced to 20.0 million tons on dry conditions but remains record large. World exports are raised by 1.0 million tons to 180.7 million on increases for the EU, Russia, and Ukraine more than offsetting reductions for Argentina and Australia. Global consumption is nearly unchanged at 755.2 million tons, which is 3 percent greater than last year. With global supplies rising more than consumption, 2019/20 ending stocks are raised to a record 288.3 million tons with China comprising 51 percent of the total.

**COARSE GRAINS:** This month's 2019/20 U.S. corn outlook is for lower production, reduced use, and smaller ending stocks. Corn production is forecast at 13.661 billion bushels, down 118 million from last month on a 1.4-bushel reduction in yield to 167.0 bushels per acre. Feed and residual use is down 25 million bushels based on a smaller crop and higher expected prices. Exports are reduced reflecting the slow pace of early-season sales and shipments. Corn used for ethanol is down 25 million bushels based on September data from the *Grain Crushings and Co-Products Production* report and weekly ethanol production data as reported by the Energy Information Administration for the month of October. With supply falling more than use, corn ending stocks are lowered 18 million bushels from last month. The season-average corn price received by producers is raised 5 cents to \$3.85 per bushel based on observed prices to date.

Global coarse grain production for 2019/20 is forecast 1.8 million tons lower to 1,394.9 million. This month's 2019/20 foreign coarse grain outlook is for larger production, increased trade, and lower stocks relative to last month. Foreign corn production is forecast higher as increases for several African countries, as well as Russia and Turkey, more than offset declines for Mexico, Ukraine, and the EU. For Mexico, production is lowered as area for summer season corn is expected to be the lowest on record. Yield forecasts for Russia and Ukraine are raised and lowered, respectively, based on observed harvest results to date.

Corn exports are raised for Brazil and Russia, with reductions for the United States and Mexico. For 2018/19, corn exports for Brazil are raised for the local marketing year beginning March 2019, based on shipments observed through October. For 2019/20, corn imports are raised for Vietnam, Colombia, Japan, and South Korea. Partly offsetting, are reductions for Iran, Egypt, Malaysia, and Turkey. Foreign corn ending stocks are lower relative to last month, with declines for Brazil, Iran, Mexico, China, and Argentina that are partly offset by small increases for several African countries. Global corn ending stocks, at 296.0 million tons, are down 6.6 million.

**RICE:** This month's outlook for 2019/20 U.S. rice is for slightly lower supplies, unchanged use, and decreased ending stocks. The NASS November *Crop Production* report indicated 2019/20 rice production is lowered 0.7 million cwt from the previous forecast to 187.9 million. Long-grain is lowered 0.5 million cwt and combined medium- and short-grain is lowered 0.2 million cwt. The average all rice yield is down 29 pounds to 7,587 pounds per acre. The production decrease corresponds to a 0.7 million cwt decrease in all rice ending stocks. The season-average farm price is unchanged at \$13.00 per cwt, up from last year's revised \$12.30.

Global 2019/20 rice supplies are raised 1.4 million tons, mainly on increased beginning stocks reflecting lower 2018/19 consumption. Several mostly offsetting changes led to fractionally lower global production. India production is raised 1.0 million tons due to ample water supplies and increased planting intentions of the irrigated Rabi crop. Indonesia production is lowered 0.9 million tons due to the delayed onset of the monsoon, and the Philippines are lowered 0.2 million tons as farmers shift production to more profitable crops. Global exports for 2019/20 are lowered fractionally led by a 0.5-million-ton reduction for Thailand as its export prices are expected to remain uncompetitive. Partly offsetting is a 0.2-million-ton increase in India exports reflecting the larger crop, and a 0.2-million-ton increase for Vietnam on improved price competitiveness. Global imports are down 0.5 million tons with a 0.8-million-ton increase for Indonesia more than offset by 0.6-million-ton decrease for China, a 0.4-million-ton decrease for Nigeria, and a 0.2-million-ton decrease for the Philippines. Ending stocks are raised 2.0 million tons to a record 177.0 million.

**OILSEEDS:** The U.S. soybean outlook is for slightly lower production, reduced crush, and higher ending stocks. Soybean production is forecast at 3.55 billion bushels, down less than 1 million on fractionally lower yields and unchanged harvested area. Soybean crush is reduced 15 million bushels to 2.11 billion on lower-than expected early-season crush and reduced soybean meal export prospects. With reduced crush, soybean ending stocks are projected at 475 million bushels, up 15 million.

The U.S. season-average soybean price for 2019/20 is forecast at \$9.00 per bushel, unchanged from last month. The soybean meal price forecast is also unchanged at \$325.00

per short ton. The soybean oil price is forecast at \$0.31 per pound, up \$0.01 from last month on sharply higher reported prices through October.

The foreign oilseed supply and demand forecasts for 2019/20 include lower production, crush, and stocks, compared with last month. Foreign production is forecast at 463.6 million tons, down 3.4 million on lower soybean, cottonseed, sunflowerseed, and rapeseed production. Soybean production for India is reduced 2.0 million tons to 9.0 million on lower yields resulting from excessive late-season rainfall. Soybean production is also reduced for Canada on lower yields. Other production changes include lower sunflowerseed production for Argentina and lower rapeseed production for Australia and the European Union. Foreign soybean crush changes for 2019/20 include reductions for India, China, and Canada. Foreign soybean ending stocks for 2019/20 are reduced with lower projections for Argentina, Canada, and India only partly offset with higher forecasts for Brazil and Egypt.

**SUGAR:** Estimates of U.S. sugar supply and use for 2018/19 are revised on complete fiscal year Sweetener Market Data (SMD) and trade data through September from U.S. Census and FAS. Beet sugar production is increased 29,680 short tons, raw value (STRV) and Louisiana cane sugar production is increased 29,015 STRV, both on higher-than-expected production in September 2019. Deliveries for human consumption are estimated at 12.106 million STRV, a reduction of 19,347 from last month. Delivery growth of 0.5 percent over the previous year results from a relatively large increase in direct consumption imports. Combined domestic beet and cane sugar processors' deliveries have remained flat since 2016/17. Ending stocks are estimated at 1.779 million STRV implying an ending stocks-to-use ratio of 14.5 percent and adding 54,105 STRV to 2019/20 beginning stocks over last month.

Beet sugar production for 2019/20 is projected at 4.588 million STRV, a reduction of 466,485 due to poor harvest conditions resulting in lower sugarbeet production. Beet processors reduced their sliced sugarbeets projection in SMD by 10.3 percent to 28.442 million tons. The largest reductions are centered in the Red River Valley. Louisiana cane sugar production is reduced by 105,803 STRV to 1.794 million based on a lower NASS sugarcane yield forecast and processors' lower recovery rate. Deliveries for human consumption are reduced by 25,000 STRV to 12.125 million in line with the reduction for 2018/19. Ending stocks are residually projected at 1.285 million STRV for an ending stocks-to-use ratio of 10.5 percent.

Estimates of Mexico sugar supply and use for 2018/19 are revised on complete fiscal year data published by CONADESUCA and U.S. Census. Sugar production for 2019/20 is projected at 5.772 million metric tons (MT), a reduction of 293,320 MT from last month. The projection matches the first published CONADESUCA survey of most, if not all, sugar mills in Mexico. Although area harvested is up 0.64 percent, sugarcane yield is down 10.95 percent from last year to 63.17 MT/hectare. Drought has severely reduced yields in the Northeast and Gulf of Mexico production regions. Deliveries for human consumption for 2019/20 are projected down 142,587 MT from last month to 4.057 million. This is 35,316 MT lower than the estimate for 2018/19 and reportedly attributable to a continuing trend of food manufacturers reformulating the sugar content in products. The FAS Mexico Post also notes the effects of negative health campaigns, increased use of high fructose corn syrup in food and beverage products, and government taxes on sugar-containing products. Ending stocks are forecast at 935,751 MT, a sufficient amount to cover delivery needs before the start of the

2020/21 campaign. Exports to non-U.S. destinations are residually forecast at 641,329 MT. Exports to the United States are unchanged from last month.

**LIVESTOCK, POULTRY, AND DAIRY:** The forecast for 2019 total red meat and poultry production is raised from last month on higher beef, pork, broiler, and turkey production. Beef production is raised from the previous month on higher expected slaughter of both fed and non-fed cattle. The pork production forecast is raised on both higher hog slaughter and slightly higher carcass weights. The broiler production forecast is raised as hatchery data points to larger supplies of birds available for slaughter in the fourth quarter. Turkey production is raised on higher-than-expected third-quarter production and higher expected supplies of birds in the fourth quarter. Egg production is reduced on lower reported hatching egg production in the third quarter which more than offsets higher-than-expected table egg production. However, no change is made to the fourth-quarter production forecast.

For 2020, the total red meat and poultry forecast is increased from last month as higher broiler and turkey production more than offsets a lower beef production forecast. The pork production forecast is unchanged. Broiler and turkey production forecasts are raised as the increase in production late this year is forecast to carry into late 2020. The beef production forecast is reduced on a slower expected pace of gains in carcass weights. A slightly slower pace of feedlot marketings also contributes to the reduced production forecast. The 2020 egg production forecast is unchanged from the previous month.

Beef and pork trade for 2019 are adjusted to reflect third-quarter reported data; the forecasts for the fourth-quarter 2019 and for 2020 are unchanged from last month. The 2019 broiler export forecast is lowered as weaker-than-expected third quarter exports further dampen expectations for shipments in the fourth quarter; no change is made to the 2020 forecast. Turkey export forecasts for 2019 and 2020 are unchanged.

The cattle price forecast is raised for fourth-quarter 2019 based on recent data; no change is made to the 2020 forecast. The 2019 and 2020 hog price forecasts are reduced on current price weakness. The 2019 broiler price forecast is raised from the previous month on current prices. The price strength is carried into early 2020, but increased production in the later part of 2020 is expected to pressure prices; the 2020 annual price forecast is unchanged. The 2019 and 2020 turkey price forecasts are unchanged from the previous month. The egg price forecast for 2019 is increased on current price strength, but the 2020 forecast is unchanged.

The milk production forecasts for 2019 and 2020 are raised from the previous month as stronger growth in milk per cow more than offsets a slower expected recovery in the cow inventory. The 2019 fat basis import forecast is raised on recent trade data; the 2020 import forecast is unchanged. The fat basis export forecast for 2020 is lowered as higher domestic cheese prices are expected to affect the competitiveness of U.S. cheese in international markets. The skim-solids basis import forecast for 2019 is reduced on lower imports of milk protein products. The 2020 forecast is unchanged. The 2019 skim-solids basis export forecast is raised on stronger sales of nonfat/skim milk powder (NDM/SMP). The 2020 forecast is unchanged as weak exports of cheese and whey products offset higher expected NDM/SMP sales.

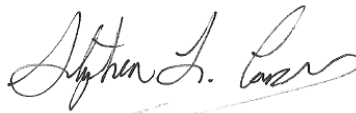
Cheese and nonfat dry milk (NDM) price forecasts for both 2019 and 2020 are raised from last month on strength in demand. For both 2019 and 2020, butter and whey prices are lowered on current price weakness which is expected to carry into 2020. The 2019 Class III and Class IV price forecasts are raised as the higher cheese price more than offsets the lower whey price. The 2019 Class IV price is raised as the higher NDM price more than offsets a weaker butter price, but for 2020, the lower butter price outweighs the higher NDM price and the Class IV price is reduced. The 2019 all milk price forecast is raised to \$18.60 per cwt; the 2020 all milk price is forecast unchanged at \$18.85 per cwt.

**COTTON:** This month's 2019/20 U.S. cotton estimates include lower production and ending stocks due to a smaller crop in the Southwest. While the U.S. production forecast is reduced 4 percent, to 20.8 million bales, domestic mill use and exports are unchanged. U.S. ending stocks are now 900,000 bales lower at 6.1 million but, at 31 percent, are still forecast at their highest share of use since 2008/09. The marketing-year average price received by upland producers is forecast at 61 cents per pound, 5 percent (3 cents) above the October forecast, but 13 percent lower than the final 2018/19 price of 70.3 cents.

This month's 2019/20 world cotton forecasts include lower production, lower ending stocks and higher world trade. World production is reduced nearly 3.0 million bales, with reductions occurring primarily in the United States, Pakistan, India, and China. There are also smaller declines in the production estimates for Turkey and Turkmenistan. World trade is forecast 1.1 million bales higher, with higher imports by Turkey, Pakistan, and India more than offsetting a 200,000-bale decline in Indonesia. Higher exports are projected from Brazil, Malaysia, Benin, Greece, India, and several smaller countries. With little change from the previous month in beginning stocks or consumption, world 2019/20 cotton ending stocks are projected nearly 3.0 million bales lower this month. At 80.8 million bales, world ending stocks in 2019/20 are forecast nearly unchanged from 2018/19.

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

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<p><b>In 2019, the WASDE report will be released on Dec 10.</b> <b>In 2020, the WASDE report will be released on Jan 10, Feb 11, Mar 10,</b> <b>Apr 9, May 12, June 11, July 10, Aug 12, Sep 11, Oct 9, Nov 10, and Dec 10.</b></p>
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# TABLE OF CONTENTS

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	<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 - 594 - 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		2618.41	3416.96	414.83	2600.42	816.54
	2018/19 (Est.)		2629.43	3445.97	428.40	2647.47	798.49
	2019/20 (Proj.)	Oct	2659.68	3460.07	426.56	2663.17	796.90
		Nov	2658.19	3456.69	428.02	2664.54	792.15
	2017/18		762.31	1025.03	182.47	742.31	282.73
	2018/19 (Est.)		731.28	1014.01	172.89	736.11	277.90
	2019/20 (Proj.)	Oct	765.23	1042.91	179.68	755.11	287.80
		Nov	765.55	1043.45	180.68	755.17	288.28
Wheat	2017/18		1361.22	1747.20	185.23	1375.95	371.25
	2018/19 (Est.)		1398.80	1770.05	211.36	1422.75	347.30
	2019/20 (Proj.)	Oct	1396.68	1747.53	201.01	1413.52	334.01
		Nov	1394.89	1742.19	201.56	1415.37	326.83
Coarse Grains 5/	2017/18		494.88	644.73	47.13	482.17	162.56
	2018/19 (Est.)		499.34	661.90	44.15	488.61	173.29
	2019/20 (Proj.)	Oct	497.77	669.62	45.88	494.54	175.09
		Nov	497.76	671.05	45.78	494.01	177.04
<b>United States</b>							
Total Grains 4/	2017/18		437.43	541.29	94.57	357.95	88.76
	2018/19 (Est.)		438.36	534.34	83.39	362.37	88.58
	2019/20 (Proj.)	Oct	423.03	519.25	79.77	356.92	82.56
		Nov	419.05	515.22	78.76	355.32	81.14
Wheat	2017/18		47.38	83.81	24.66	29.25	29.91
	2018/19 (Est.)		51.31	84.89	25.48	30.02	29.39
	2019/20 (Proj.)	Oct	53.39	86.04	25.86	31.79	28.40
		Nov	52.26	84.91	25.86	31.46	27.59
Coarse Grains 5/	2017/18		384.39	449.48	67.16	324.41	57.92
	2018/19 (Est.)		379.93	440.49	54.94	327.77	57.77
	2019/20 (Proj.)	Oct	363.65	424.85	50.90	320.97	52.98
		Nov	360.82	421.98	49.89	319.70	52.39
Rice, milled	2017/18		5.66	8.00	2.76	4.30	0.93
	2018/19 (Est.)		7.12	8.97	2.97	4.58	1.42
	2019/20 (Proj.)	Oct	5.99	8.35	3.02	4.16	1.18
		Nov	5.97	8.33	3.02	4.16	1.16

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 - 594 - 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	2,180.98	2,875.67	320.25	2,242.47	727.78
	2018/19 (Est.)	2,191.07	2,911.62	345.01	2,285.10	709.92
	2019/20 (Proj.)	2,236.65	2,940.82	346.78	2,306.25	714.34
	Oct Nov	2,239.15	2,941.47	349.26	2,309.22	711.00
Wheat	2017/18	714.93	941.22	157.81	713.06	252.82
	2018/19 (Est.)	679.98	929.12	147.41	706.09	248.51
	2019/20 (Proj.)	711.84	956.87	153.82	723.32	259.40
	Oct Nov	713.29	958.54	154.82	723.71	260.68
Coarse Grains 5/	2017/18	976.83	1,297.72	118.08	1,051.55	313.33
	2018/19 (Est.)	1,018.87	1,329.57	156.41	1,094.98	289.54
	2019/20 (Proj.)	1,033.03	1,322.68	150.10	1,092.55	281.03
	Oct Nov	1,034.06	1,320.21	151.67	1,095.67	274.43
Rice, milled	2017/18	489.23	636.73	44.37	477.87	161.63
	2018/19 (Est.)	492.22	652.93	41.18	484.03	171.87
	2019/20 (Proj.)	491.78	661.27	42.86	490.38	173.91
	Oct Nov	491.79	662.72	42.76	489.85	175.89

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	204.07	41.41	122.76	80.94
	2018/19 (Est.)	118.80	199.74	41.28	120.29	80.55
	2019/20 (Proj.)	124.77	205.50	42.91	121.61	83.69
	Oct Nov	121.94	202.49	44.03	121.49	80.80
United States	2017/18	20.92	23.68	16.28	3.23	4.20
	2018/19 (Est.)	18.37	22.57	14.76	2.98	4.85
	2019/20 (Proj.)	21.71	26.56	16.50	3.00	7.00
	Oct Nov	20.82	25.67	16.50	3.00	6.10
Foreign 4/	2017/18	102.86	180.40	25.14	119.54	76.74
	2018/19 (Est.)	100.43	177.17	26.52	117.31	75.70
	2019/20 (Proj.)	103.07	178.94	26.41	118.61	76.69
	Oct Nov	101.12	176.82	27.53	118.49	74.70

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 - 594 - 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		580.77	690.45	176.30	484.13	116.52
	2018/19 (Est.)		596.69	713.20	171.18	489.90	127.77
	2019/20 (Proj.)	Oct	574.85	703.02	172.38	498.21	109.75
		Nov	571.30	699.06	172.55	494.66	109.99
Oilmeals	2017/18		331.71	349.08	89.12	328.60	16.56
	2018/19 (Est.)		333.79	350.34	93.42	331.69	14.88
	2019/20 (Proj.)	Oct	340.32	355.04	94.21	338.20	14.27
		Nov	337.76	352.64	93.64	336.39	13.79
Vegetable Oils	2017/18		198.67	219.33	79.87	192.25	22.22
	2018/19 (Est.)		203.24	225.46	86.19	200.14	21.09
	2019/20 (Proj.)	Oct	207.50	228.78	88.61	205.21	19.66
		Nov	206.47	227.55	88.69	204.54	19.09
<b>United States</b>							
Oilseeds	2017/18		131.48	142.50	59.31	60.17	13.83
	2018/19 (Est.)		130.72	145.65	48.70	61.03	26.66
	2019/20 (Proj.)	Oct	107.93	135.94	49.53	62.32	14.19
		Nov	107.74	135.58	49.53	61.60	14.63
Oilmeals	2017/18		47.03	51.17	13.00	37.61	0.56
	2018/19 (Est.)		46.52	51.02	12.58	38.01	0.42
	2019/20 (Proj.)	Oct	47.77	52.07	12.74	38.91	0.42
		Nov	47.33	51.59	12.42	38.75	0.42
Vegetable Oils	2017/18		12.11	18.12	1.34	15.54	1.24
	2018/19 (Est.)		12.19	18.14	1.10	15.88	1.16
	2019/20 (Proj.)	Oct	12.58	18.54	1.02	16.46	1.05
		Nov	12.41	18.37	1.01	16.34	1.02
<b>Foreign 3/</b>							
Oilseeds	2017/18		449.29	547.94	116.99	423.97	102.69
	2018/19 (Est.)		465.97	567.55	122.48	428.87	101.11
	2019/20 (Proj.)	Oct	466.92	567.08	122.84	435.89	95.56
		Nov	463.55	563.49	123.01	433.06	95.37
Oilmeals	2017/18		284.69	297.91	76.12	291.00	16.00
	2018/19 (Est.)		287.27	299.33	80.83	293.68	14.46
	2019/20 (Proj.)	Oct	292.56	302.97	81.48	299.29	13.84
		Nov	290.43	301.05	81.22	297.64	13.37
Vegetable Oils	2017/18		186.56	201.21	78.52	176.71	20.98
	2018/19 (Est.)		191.05	207.32	85.10	184.26	19.92
	2019/20 (Proj.)	Oct	194.92	210.24	87.59	188.75	18.61
		Nov	194.06	209.18	87.68	188.20	18.07

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 - 594 - 11

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

	2017/18	2018/19 Est.	2019/20 Proj. Oct	2019/20 Proj. Nov
	<i>Million Acres</i>			
Area Planted	46.1	47.8	45.2	45.2
Area Harvested	37.6	39.6	38.1	37.2
	<i>Bushels</i>			
Yield per Harvested Acre	46.4	47.6	51.6	51.7
	<i>Million Bushels</i>			
Beginning Stocks	1,181	1,099	1,080	1,080
Production	1,741	1,885	1,962	1,920
Imports	158	135	120	120
Supply, Total	3,080	3,119	3,161	3,120
Food	964	955	960	955
Seed	63	59	68	61
Feed and Residual	47	90	140	140
Domestic, Total	1,075	1,103	1,168	1,156
Exports	906	936	950	950
Use, Total	1,981	2,039	2,118	2,106
Ending Stocks	1,099	1,080	1,043	1,014
Avg. Farm Price (\$/bu) 2/	4.72	5.16	4.70	4.60

## 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</i>		<i>Bushels</i>			
2018/19 (Est.)	Beginning Stocks	581	191	205	87	35	1,099
	Production	662	587	286	272	78	1,885
	Supply, Total 3/	1,248	846	495	365	165	3,119
	Domestic Use	401	324	209	81	88	1,103
	Exports	331	259	128	196	22	936
	Use, Total	732	583	337	277	110	2,039
	Ending Stocks, Total	516	263	158	88	55	1,080
2019/20 (Proj.)	Beginning Stocks	516	263	158	88	55	1,080
	Production	833	522	239	272	54	1,920
	Supply, Total 3/	1,354	840	402	365	159	3,120
	Domestic Use	481	306	191	90	88	1,156
	Exports	380	255	100	190	25	950
	Use, Total	861	561	291	280	113	2,106
	Ending Stocks, Total	493	279	111	85	46	1,014
		Nov					
		Oct					
		491	308	110	85	49	1,043

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.

## WASDE - 594 - 12

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

FEED GRAINS	2017/18	2018/19 Est.	2019/20 Proj. Oct	2019/20 Proj. Nov
	<i>Million Acres</i>			
Area Planted	100.9	100.1	100.7	100.7
Area Harvested	90.5	89.6	89.6	89.5
	<i>Metric Tons</i>			
Yield per Harvested Acre	4.24	4.24	4.06	4.03
	<i>Million Metric Tons</i>			
Beginning Stocks	62.1	57.9	57.8	57.8
Production	384.1	379.7	363.4	360.6
Imports	2.7	2.3	3.1	3.1
Supply, Total	449.0	440.0	424.3	421.4
Feed and Residual	138.6	147.6	140.3	139.7
Food, Seed & Industrial	185.3	179.7	180.1	179.5
Domestic, Total	323.9	327.3	320.4	319.1
Exports	67.2	54.9	50.9	49.9
Use, Total	391.1	382.2	371.3	369.0
Ending Stocks	57.9	57.8	53.0	52.4
<b>CORN</b>				
	<i>Million Acres</i>			
Area Planted	90.2	89.1	89.9	89.9
Area Harvested	82.7	81.7	81.8	81.8
	<i>Bushels</i>			
Yield per Harvested Acre	176.6	176.4	168.4	167.0
	<i>Million Bushels</i>			
Beginning Stocks	2,293	2,140	2,114	2,114
Production	14,609	14,420	13,779	13,661
Imports	36	28	50	50
Supply, Total	16,939	16,588	15,944	15,825
Feed and Residual	5,304	5,618	5,300	5,275
Food, Seed & Industrial 2/	7,057	6,791	6,815	6,790
Ethanol & by-products 3/	5,605	5,376	5,400	5,375
Domestic, Total	12,361	12,409	12,115	12,065
Exports	2,438	2,065	1,900	1,850
Use, Total	14,798	14,474	14,015	13,915
Ending Stocks	2,140	2,114	1,929	1,910
Avg. Farm Price (\$/bu) 4/	3.36	3.61	3.80	3.85

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.

## WASDE - 594 - 13

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

SORGHUM	2017/18	2018/19 Est.	2019/20 Proj. Oct	2019/20 Proj. Nov
	<i>Million Bushels</i>			
Area Planted (mil. acres)	5.6	5.7	5.3	5.3
Area Harvested (mil. acres)	5.0	5.1	4.7	4.7
Yield (bushels/acre)	71.7	72.1	73.9	75.9
Beginning Stocks	33	35	64	64
Production	362	365	349	358
Imports	2	0	0	0
Supply, Total	397	400	412	421
Feed and Residual	102	138	160	160
Food, Seed & Industrial	60	106	100	100
Total Domestic	162	244	260	260
Exports	200	93	100	110
Use, Total	362	336	360	370
Ending Stocks	35	64	52	51
Avg. Farm Price (\$/bu) 2/	3.22	3.26	3.40	3.40
<b>BARLEY</b>				
Area Planted (mil. acres)	2.5	2.5	2.7	2.7
Area Harvested (mil. acres)	2.0	2.0	2.2	2.2
Yield (bushels/acre)	73.0	77.5	77.4	77.7
Beginning Stocks	106	94	87	87
Production	143	154	171	170
Imports	9	6	10	8
Supply, Total	259	254	268	264
Feed and Residual	2	8	15	15
Food, Seed & Industrial	157	155	153	153
Total Domestic	159	162	168	168
Exports	5	5	3	3
Use, Total	164	167	171	171
Ending Stocks	94	87	97	93
Avg. Farm Price (\$/bu) 2/	4.47	4.62	4.65	4.70
<b>OATS</b>				
Area Planted (mil. acres)	2.6	2.7	2.8	2.8
Area Harvested (mil. acres)	0.8	0.9	0.8	0.8
Yield (bushels/acre)	61.7	64.9	64.4	64.3
Beginning Stocks	50	41	38	38
Production	50	56	54	53
Imports	89	87	95	95
Supply, Total	189	184	187	186
Feed and Residual	68	66	70	70
Food, Seed & Industrial	77	78	78	78
Total Domestic	146	144	148	148
Exports	2	2	2	2
Use, Total	148	146	150	150
Ending Stocks	41	38	37	36
Avg. Farm Price (\$/bu) 2/	2.59	2.66	2.95	2.95

Note: 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.

## WASDE - 594 - 14

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

TOTAL RICE	2017/18	2018/19 Est.	2019/20 Proj. Oct	2019/20 Proj. Nov
		<i>Million Acres</i>		
Area Planted	2.46	2.95	2.54	2.54
Area Harvested	2.37	2.92	2.48	2.48
		<i>Pounds</i>		
Yield per Harvested Acre	7,507	7,692	7,616	7,587
		<i>Million Hundredweight</i>		
Beginning Stocks 2/	46.0	29.4	44.9	44.9
Production	178.2	224.2	188.6	187.9
Imports	27.5	29.0	29.6	29.6
Supply, Total	251.8	282.6	263.1	262.4
Domestic & Residual 3/	135.4	144.1	131.0	131.0
Exports, Total 4/	87.1	93.6	95.0	95.0
Rough	28.8	33.0	33.0	33.0
Milled (rough equiv.)	58.2	60.6	62.0	62.0
Use, Total	222.4	237.7	226.0	226.0
Ending Stocks	29.4	44.9	37.1	36.4
Avg. Milling Yield (%) 5/	70.00	70.00	70.00	70.00
Avg. Farm Price (\$/cwt) 6/	12.90	12.30	13.00	13.00

**LONG-GRAIN RICE**

Harvested Acres (mil.)	1.75	2.18		
Yield (pounds/acre)	7,314	7,517		
Beginning Stocks	31.0	20.3	32.6	32.6
Production	127.9	164.0	127.5	127.1
Supply, Total 7/	182.2	207.7	184.1	183.7
Domestic & Residual 3/	98.6	109.4	98.0	98.0
Exports 8/	63.2	65.7	66.0	66.0
Use, Total	161.9	175.1	164.0	164.0
Ending Stocks	20.3	32.6	20.1	19.7
Avg. Farm Price (\$/cwt) 6/	11.50	10.80	11.80	11.80

**MEDIUM & SHORT-GRAIN RICE**

Harvested Acres (mil.)	0.63	0.73		
Yield (pounds/acre)	8,048	8,209		
Beginning Stocks	11.5	7.6	10.2	10.2
Production	50.4	60.3	61.1	60.9
Supply, Total 7/	68.2	72.8	76.9	76.7
Domestic & Residual 3/	36.7	34.8	33.0	33.0
Exports 8/	23.8	27.8	29.0	29.0
Use, Total	60.6	62.6	62.0	62.0
Ending Stocks	7.6	10.2	14.9	14.7
Avg. Farm Price (\$/cwt) 1/ 6/ 9/	17.00	17.60	16.50	16.50
California 10/	20.10	20.00	18.50	18.50
Other States 1/	11.70	12.30	12.30	12.30

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; 2017/18-3.5. 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.

[illegible]

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 2,085 million bushels for 2018/19 and 2.105 million bushels for 2019/20.

## WASDE - 594 - 16

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

	2017/18	2018/19 Est.	2019/20 Proj.	2019/20 Proj.
			Oct	Nov
	<i>1,000 Short Tons, Raw Value</i>			
Beginning Stocks	1,876	2,008	1,725	1,779
Production 2/	9,293	8,994	9,184	8,612
Beet Sugar	5,279	4,937	5,055	4,588
Cane Sugar	4,014	4,057	4,129	4,024
Florida	1,983	2,005	2,096	2,096
Hawaii	0	0	0	0
Louisiana	1,862	1,904	1,900	1,794
Texas	169	147	134	134
Imports	3,277	3,070	3,165	3,159
TRQ 3/	1,663	1,541	1,627	1,621
Other Program 4/	326	438	350	350
Other 5/	1,287	1,092	1,188	1,188
Mexico	1,223	1,000	1,118	1,118
Total Supply	14,445	14,072	14,074	13,550
Exports	170	35	35	35
Deliveries	12,185	12,231	12,255	12,230
Food	12,048	12,106	12,150	12,125
Other 6/	137	126	105	105
Miscellaneous	82	27	0	0
Total Use	12,438	12,292	12,290	12,265
Ending Stocks	2,008	1,779	1,784	1,285
Stocks to Use Ratio	16.1	14.5	14.5	10.5

1/ Fiscal years beginning Oct 1. Data and projections correspond to category components from "Sweetener Market Data" (SMD). 2/ Production projections for 2018/19 and 2019/20 are based on Crop Production and/or processor projections where appropriate. 3/ For 2018/19, WTO raw sugar TRQ shortfall (56) 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 (91) 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
<b>Sugar</b>		<i>1,000 Metric Tons, Actual Weight</i>					
2018/19 Est.	Oct	1,395	6,426	86	4,565	2,194	1,148
	Nov	1,395	6,426	85	4,532	2,204	1,169
2019/20 Proj.	Oct	1,148	6,065	70	4,624	1,695	963
	Nov	1,169	5,772	85	4,492	1,598	936

1/ HFCS consumption by Mexico (1,000 metric tons, dry basis): 2017/18 = 1,593; Estimated 2018/19 = 1,528; 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 (460 est); 2019/20 (435 proj). Other Deliveries/Ending Year Statistical Adjustments: 2018/19 (-20), 2019/20 (0).



## WASDE - 594 - 17

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

	2017/18	2018/19 Est.	2019/20 Proj. Oct	2019/20 Proj. Nov
Area				
Planted	12.72	14.10	13.76	13.76
Harvested	11.10	10.21	12.51	12.51
Yield per Harvested Acre	905	864	833	799
Beginning Stocks	2.75	4.20	4.85	4.85
Production	20.92	18.37	21.71	20.82
Imports	0.00	0.00	0.01	0.01
Supply, Total	23.68	22.57	26.56	25.67
Domestic Use	3.23	2.98	3.00	3.00
Exports, Total	16.28	14.76	16.50	16.50
Use, Total	19.50	17.74	19.50	19.50
Unaccounted 2/	-0.03	-0.02	0.06	0.07
Ending Stocks	4.20	4.85	7.00	6.10
Avg. Farm Price 3/	68.6	70.3	58.0	61.0

Note: Reliability calculations at end of report. 1/ Upland and extra-long staple; marketing year beginning August 1. Totals may not add due to rounding. 2/ Reflects the difference between the previous season's supply less total use and ending stocks. 3/ Cents per pound for upland cotton.

## WASDE - 594 - 18

World Wheat 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/	262.72	762.31	180.03	146.50	742.31	182.47	282.73
World Less China	147.79	627.98	176.09	129.00	621.31	181.46	151.53
United States	32.13	47.38	4.30	1.29	29.25	24.66	29.91
Total Foreign	230.59	714.93	175.72	145.22	713.06	157.81	252.82
Major Exporters 4/	36.22	333.09	6.96	89.73	205.50	131.17	39.61
Argentina	0.25	18.50	0.01	0.05	5.55	12.73	0.47
Australia	5.73	20.94	0.16	4.00	7.48	13.85	5.51
Canada	6.93	30.38	0.45	4.38	9.28	22.00	6.48
European Union 5/	10.72	151.13	5.82	58.00	130.40	23.38	13.89
Russia	10.82	85.17	0.47	20.00	43.00	41.43	12.03
Ukraine	1.77	26.98	0.06	3.30	9.80	17.78	1.24
Major Importers 6/	160.57	202.93	115.67	37.70	289.75	12.42	177.00
Bangladesh	1.76	1.15	6.15	0.25	7.05	0.00	2.02
Brazil	2.26	4.26	7.02	0.50	12.00	0.23	1.31
China	114.93	134.33	3.94	17.50	121.00	1.00	131.20
Japan	1.21	0.97	5.88	0.75	6.60	0.28	1.18
N. Africa 7/	14.28	19.25	27.45	2.25	45.23	0.88	14.87
Nigeria	0.20	0.07	5.16	0.05	4.83	0.40	0.20
Sel. Mideast 8/	16.65	18.36	18.46	4.10	37.92	0.90	14.65
Southeast Asia 9/	5.68	0.00	26.06	8.99	25.44	1.11	5.19
Selected Other							
India	9.80	98.51	1.17	5.00	95.68	0.57	13.23
Kazakhstan	3.54	14.80	0.10	2.10	6.90	9.00	2.54
<b>2018/19 Est.</b>							
World 3/	282.73	731.28	169.91	139.76	736.11	172.89	277.90
World Less China	151.53	599.85	166.77	119.76	611.11	171.89	138.13
United States	29.91	51.31	3.67	2.44	30.02	25.48	29.39
Total Foreign	252.82	679.98	166.24	137.31	706.09	147.41	248.51
Major Exporters 4/	39.61	302.60	7.17	82.19	196.59	120.58	32.21
Argentina	0.47	19.50	0.01	0.05	6.05	12.00	1.93
Australia	5.51	17.30	0.36	5.70	9.20	9.01	4.96
Canada	6.48	32.20	0.48	3.94	8.84	24.41	5.92
European Union 5/	13.89	136.86	5.76	52.00	123.20	23.31	10.00
Russia	12.03	71.69	0.45	18.00	40.50	35.84	7.82
Ukraine	1.24	25.06	0.11	2.50	8.80	16.02	1.59
Major Importers 6/	177.00	200.19	110.93	38.44	293.69	12.33	182.10
Bangladesh	2.02	1.00	5.00	0.28	7.08	0.00	0.94
Brazil	1.31	5.43	7.02	0.50	12.10	0.60	1.06
China	131.20	131.43	3.15	20.00	125.00	1.01	139.77
Japan	1.18	0.88	5.73	0.68	6.53	0.29	0.97
N. Africa 7/	14.87	21.00	26.93	2.25	46.15	1.19	15.46
Nigeria	0.20	0.06	4.59	0.05	4.25	0.40	0.20
Sel. Mideast 8/	14.65	18.37	17.23	3.55	37.90	0.58	11.77
Southeast Asia 9/	5.19	0.00	26.16	8.14	25.34	1.10	4.92
Selected Other							
India	13.23	99.87	0.02	5.00	95.63	0.50	16.99
Kazakhstan	2.54	13.95	0.09	1.80	6.60	8.30	1.68

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 - 594 - 19

**World Wheat 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/	Oct	277.68	765.23	175.68	148.47	755.11	179.68	287.80
	Nov	277.90	765.55	176.53	148.47	755.17	180.68	288.28
World Less China	Oct	137.92	633.23	172.48	127.47	627.11	178.38	142.14
	Nov	138.13	633.55	173.33	127.47	627.17	179.38	142.61
United States	Oct	29.39	53.39	3.27	3.81	31.79	25.86	28.40
	Nov	29.39	52.26	3.27	3.81	31.46	25.86	27.59
Total Foreign	Oct	248.30	711.84	172.41	144.66	723.32	153.82	259.40
	Nov	248.51	713.29	173.27	144.66	723.71	154.82	260.68
Major Exporters 4/	Oct	32.54	324.70	6.66	85.85	200.45	130.00	33.45
	Nov	32.21	326.20	6.66	85.85	200.45	131.00	33.62
Argentina	Oct	1.83	20.50	0.01	0.05	6.05	14.50	1.79
	Nov	1.93	20.00	0.01	0.05	6.05	14.00	1.89
Australia	Oct	4.97	18.00	0.15	5.00	8.50	9.50	5.12
	Nov	4.96	17.20	0.15	5.00	8.50	9.00	4.81
Canada	Oct	5.92	33.00	0.45	4.50	9.50	24.50	5.37
	Nov	5.92	33.00	0.45	4.50	9.50	24.50	5.37
European Union 5/	Oct	10.00	152.00	5.50	56.00	127.50	28.00	12.00
	Nov	10.00	153.00	5.50	56.00	127.50	29.00	12.00
Russia	Oct	8.25	72.50	0.48	17.00	39.50	34.00	7.72
	Nov	7.82	74.00	0.48	17.00	39.50	34.50	8.29
Ukraine	Oct	1.59	28.70	0.08	3.30	9.40	19.50	1.46
	Nov	1.59	29.00	0.08	3.30	9.40	20.00	1.26
Major Importers 6/	Oct	181.41	203.07	114.99	39.66	299.72	13.05	186.70
	Nov	182.10	203.29	115.49	39.66	299.72	13.05	188.11
Bangladesh	Oct	0.66	1.10	6.00	0.30	7.20	0.00	0.56
	Nov	0.94	1.10	6.00	0.30	7.20	0.00	0.84
Brazil	Oct	1.06	5.30	7.70	0.50	12.20	0.60	1.26
	Nov	1.06	5.30	7.70	0.50	12.20	0.60	1.26
China	Oct	139.77	132.00	3.20	21.00	128.00	1.30	145.67
	Nov	139.77	132.00	3.20	21.00	128.00	1.30	145.67
Japan	Oct	0.97	0.95	5.90	0.70	6.50	0.28	1.04
	Nov	0.97	0.95	5.90	0.70	6.50	0.28	1.04
N. Africa 7/	Oct	15.45	18.87	27.40	2.25	46.75	0.89	14.09
	Nov	15.46	18.87	27.40	2.25	46.75	0.89	14.09
Nigeria	Oct	0.20	0.06	5.10	0.05	4.76	0.40	0.20
	Nov	0.20	0.06	5.10	0.05	4.76	0.40	0.20
Sel. Mideast 8/	Oct	11.36	22.46	17.29	3.92	39.04	0.72	11.35
	Nov	11.77	22.68	17.09	3.92	39.04	0.72	11.78
Southeast Asia 9/	Oct	4.92	0.00	27.10	8.04	25.82	1.07	5.14
	Nov	4.92	0.00	27.10	8.04	25.82	1.07	5.14
Selected Other								
India	Oct	17.11	102.19	0.02	6.00	98.00	0.50	20.82
	Nov	16.99	102.19	0.02	6.00	98.00	0.50	20.70
Kazakhstan	Oct	1.83	11.50	0.06	1.80	6.60	5.20	1.59
	Nov	1.68	11.50	0.06	1.80	6.60	5.20	1.44

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 - 594 - 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/	385.99	1,361.22	187.74	834.74	1,375.95	185.23	371.25
World Less China	162.49	1,095.50	171.31	637.19	1,093.35	185.17	148.27
United States	62.17	384.39	2.93	138.73	324.41	67.16	57.92
Total Foreign	323.82	976.83	184.81	696.01	1,051.55	118.08	313.33
Major Exporters 4/	38.41	252.15	3.69	125.43	169.45	97.68	27.12
Argentina	6.70	39.32	0.01	11.98	17.61	24.91	3.50
Australia	2.65	12.19	0.00	3.94	5.81	6.74	2.29
Brazil	14.49	85.06	1.46	56.70	67.18	24.16	9.67
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/	38.21	245.11	133.71	283.62	367.84	10.01	39.18
European Union 6/	15.11	152.12	19.40	120.85	162.37	7.92	16.35
Japan	1.69	0.19	17.58	13.67	17.66	0.00	1.80
Mexico	6.00	33.19	16.36	29.20	48.41	0.96	6.18
N. Afr & Mideast 7/	7.13	29.07	39.13	59.33	67.45	0.13	7.76
Saudi Arabia	2.54	0.26	11.99	12.28	12.70	0.00	2.08
Southeast Asia 8/	3.29	30.00	14.54	36.27	44.49	1.01	2.34
South Korea	1.77	0.20	10.19	7.80	10.31	0.00	1.86
Selected Other							
China	223.49	265.72	16.43	197.55	282.60	0.06	222.98
<b>2018/19 Est.</b>							
World 3/	371.25	1,398.80	191.83	852.57	1,422.75	211.36	347.30
World Less China	148.27	1,133.40	181.29	657.32	1,135.58	211.29	135.62
United States	57.92	379.93	2.64	147.75	327.77	54.94	57.77
Total Foreign	313.33	1,018.87	189.20	704.82	1,094.98	156.41	289.54
Major Exporters 4/	27.12	292.53	5.65	124.82	169.16	133.96	22.18
Argentina	3.50	59.23	0.01	12.49	18.35	39.41	4.99
Australia	2.29	10.93	0.00	4.39	6.46	4.41	2.36
Brazil	9.67	104.33	2.00	58.45	69.48	41.04	5.49
Canada	4.57	26.19	2.83	16.32	23.68	5.97	3.94
Russia	1.37	35.00	0.06	18.70	27.27	8.07	1.10
Ukraine	2.81	44.50	0.06	7.93	11.16	34.06	2.16
Major Importers 5/	39.18	243.03	141.94	294.63	379.34	10.08	34.73
European Union 6/	16.35	147.91	26.00	126.60	168.57	8.49	13.20
Japan	1.80	0.18	17.73	13.77	17.88	0.00	1.82
Mexico	6.18	33.40	17.11	31.07	50.31	0.80	5.58
N. Afr & Mideast 7/	7.76	31.08	38.87	61.96	70.08	0.10	7.53
Saudi Arabia	2.08	0.29	10.31	10.75	11.24	0.00	1.45
Southeast Asia 8/	2.34	29.88	16.75	37.59	45.62	0.68	2.66
South Korea	1.86	0.20	10.96	8.54	11.08	0.00	1.94
Selected Other							
China	222.98	265.41	10.54	195.25	287.17	0.07	211.69

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 - 594 - 21

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

<b>2019/20 Proj.</b>		<b>Beginning Stocks</b>	<b>Production</b>	<b>Imports</b>	<b>Domestic Feed</b>	<b>Domestic Total 2/</b>	<b>Exports</b>	<b>Ending Stocks</b>
World 3/	Oct	350.85	1,396.68	199.73	855.30	1,413.52	201.01	334.01
	Nov	347.30	1,394.89	201.43	857.26	1,415.37	201.56	326.83
World Less China	Oct	138.59	1,134.21	185.33	660.80	1,120.67	200.95	137.78
	Nov	135.62	1,132.41	187.03	662.56	1,122.52	201.50	131.18
United States	Oct	57.77	363.65	3.43	140.51	320.97	50.90	52.98
	Nov	57.77	360.82	3.39	139.88	319.70	49.89	52.39
Total Foreign	Oct	293.08	1,033.03	196.30	714.79	1,092.55	150.10	281.03
	Nov	289.54	1,034.06	198.05	717.38	1,095.67	151.67	274.43
Major Exporters 4/	Oct	24.80	302.69	3.03	126.60	172.82	129.05	28.65
	Nov	22.18	302.48	3.05	126.55	171.64	131.40	24.67
Argentina	Oct	5.39	57.73	0.01	13.02	19.66	36.61	6.86
	Nov	4.99	57.63	0.01	13.02	19.46	36.71	6.46
Australia	Oct	2.32	11.50	0.00	4.40	6.47	5.12	2.24
	Nov	2.36	11.00	0.00	4.15	6.22	4.87	2.28
Brazil	Oct	7.62	104.23	1.70	58.87	70.95	34.01	8.59
	Nov	5.49	104.35	1.70	58.87	70.00	36.01	5.52
Canada	Oct	3.94	28.56	1.03	15.80	23.06	5.96	4.51
	Nov	3.94	28.56	1.03	15.80	23.06	5.96	4.51
Russia	Oct	1.10	39.88	0.09	19.83	28.38	10.92	1.78
	Nov	1.10	40.38	0.09	20.23	28.78	11.42	1.38
Ukraine	Oct	2.16	46.20	0.03	8.01	11.33	34.94	2.12
	Nov	2.16	46.04	0.03	7.81	11.16	34.94	2.13
Major Importers 5/	Oct	36.00	256.34	144.88	301.73	387.42	10.38	39.42
	Nov	34.73	253.80	146.05	303.20	388.80	9.66	36.13
European Union 6/	Oct	13.18	158.75	22.01	126.40	168.97	7.96	17.01
	Nov	13.20	158.55	22.01	126.60	169.17	7.93	16.66
Japan	Oct	1.79	0.18	17.37	13.46	17.57	0.00	1.77
	Nov	1.82	0.18	17.77	13.96	18.07	0.00	1.71
Mexico	Oct	5.80	33.10	18.01	32.41	51.69	1.50	3.72
	Nov	5.58	30.60	18.16	31.61	50.69	0.80	2.85
N. Afr & Mideast 7/	Oct	8.30	32.81	42.92	65.67	74.00	0.19	9.83
	Nov	7.53	32.96	42.24	65.94	74.37	0.19	8.17
Saudi Arabia	Oct	1.75	0.25	12.51	12.25	12.70	0.00	1.82
	Nov	1.45	0.27	12.51	12.25	12.71	0.00	1.53
Southeast Asia 8/	Oct	2.76	30.96	17.26	38.96	47.11	0.74	3.14
	Nov	2.66	30.96	18.26	39.96	48.11	0.74	3.04
South Korea	Oct	1.89	0.20	10.61	8.25	10.84	0.00	1.86
	Nov	1.94	0.20	10.91	8.55	11.14	0.00	1.92
Selected Other								
China	Oct	212.26	262.48	14.40	194.50	292.85	0.06	196.23
	Nov	211.69	262.48	14.40	194.70	292.85	0.06	195.65

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 - 594 - 22

World Corn 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/	352.16	1,080.02	149.96	672.39	1,090.45	148.19	341.72
World Less China	129.14	820.94	146.50	485.39	827.45	148.17	119.20
United States	58.25	371.10	0.92	134.73	313.98	61.92	54.37
Total Foreign	293.91	708.92	149.05	537.66	776.47	86.28	287.35
Major Exporters 4/	25.32	164.42	1.18	81.63	102.63	72.26	16.02
Argentina	5.27	32.00	0.01	8.50	12.40	22.47	2.41
Brazil	14.02	82.00	0.92	54.00	63.50	24.15	9.28
Russia	0.78	13.20	0.05	7.40	8.30	5.53	0.20
South Africa	3.70	13.10	0.17	6.83	12.23	2.07	2.67
Ukraine	1.55	24.12	0.04	4.90	6.20	18.04	1.47
Major Importers 5/	21.93	126.08	88.35	154.80	208.95	3.71	23.71
Egypt	1.89	6.40	9.46	13.40	15.90	0.01	1.85
European Union 6/	7.60	62.02	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	29.95	14.20	36.20	44.10	1.00	2.33
South Korea	1.76	0.07	10.02	7.70	10.00	0.00	1.85
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/	341.72	1,125.01	161.97	704.79	1,146.67	180.30	320.06
World Less China	119.20	867.68	157.48	514.79	873.67	180.28	108.74
United States	54.37	366.29	0.71	142.70	315.20	52.46	53.71
Total Foreign	287.35	758.73	161.26	562.09	831.47	127.84	266.35
Major Exporters 4/	16.02	210.97	2.00	84.00	106.00	111.30	11.69
Argentina	2.41	51.00	0.01	9.70	13.80	36.00	3.61
Brazil	9.28	101.00	1.30	55.50	65.50	41.00	5.08
Russia	0.20	11.42	0.05	7.50	8.40	3.00	0.26
South Africa	2.67	11.75	0.60	6.50	12.20	1.00	1.82
Ukraine	1.47	35.81	0.04	4.80	6.10	30.30	0.91
Major Importers 5/	23.71	128.60	97.97	170.00	224.60	4.78	20.90
Egypt	1.85	6.80	9.40	13.70	16.20	0.00	1.84
European Union 6/	9.84	64.22	24.80	68.00	88.00	3.30	7.55
Japan	1.39	0.00	16.05	12.30	16.00	0.00	1.44
Mexico	5.65	27.60	16.40	25.70	43.90	0.80	4.95
Southeast Asia 7/	2.33	29.83	16.38	37.50	45.20	0.68	2.65
South Korea	1.85	0.08	10.86	8.50	10.85	0.00	1.93
Selected Other							0.00
Canada	2.42	13.89	2.77	9.50	14.70	1.80	2.58
China	222.53	257.33	4.48	190.00	273.00	0.02	211.32

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 - 594 - 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/	Oct	324.03	1,104.01	166.09	693.86	1,125.49	166.59	302.55
	Nov	320.06	1,102.16	167.44	694.89	1,126.27	167.05	295.96
World Less China	Oct	112.19	850.01	159.09	505.86	848.49	166.57	106.73
	Nov	108.74	848.16	160.44	506.89	849.27	167.03	100.66
United States	Oct	53.71	350.01	1.27	134.63	307.74	48.26	48.99
	Nov	53.71	347.01	1.27	133.99	306.47	46.99	48.53
Total Foreign	Oct	270.32	754.00	164.82	559.23	817.76	118.33	253.56
	Nov	266.35	755.16	166.17	560.90	819.80	120.06	247.43
Major Exporters 4/	Oct	14.51	214.50	1.17	85.20	108.80	104.20	17.17
	Nov	11.69	214.50	1.17	84.70	107.30	106.70	13.35
Argentina	Oct	4.09	50.00	0.01	10.30	15.00	33.50	5.59
	Nov	3.61	50.00	0.01	10.30	15.00	33.50	5.12
Brazil	Oct	7.28	101.00	1.00	56.00	67.00	34.00	8.28
	Nov	5.08	101.00	1.00	56.00	66.00	36.00	5.08
Russia	Oct	0.26	13.50	0.04	7.50	8.40	5.20	0.20
	Nov	0.26	14.00	0.04	7.50	8.40	5.70	0.20
South Africa	Oct	1.97	14.00	0.10	6.60	12.30	1.50	2.27
	Nov	1.82	14.00	0.10	6.60	12.30	1.50	2.12
Ukraine	Oct	0.91	36.00	0.02	4.80	6.10	30.00	0.83
	Nov	0.91	35.50	0.02	4.30	5.60	30.00	0.83
Major Importers 5/	Oct	21.49	129.27	95.80	166.50	221.75	4.24	20.56
	Nov	20.90	127.03	97.20	167.60	222.65	3.54	18.93
Egypt	Oct	2.13	6.40	10.20	14.20	16.70	0.01	2.02
	Nov	1.84	6.40	9.90	14.20	16.70	0.01	1.43
European Union 6/	Oct	7.55	64.80	21.00	62.00	82.50	2.00	8.85
	Nov	7.55	64.56	21.00	62.00	82.50	2.00	8.61
Japan	Oct	1.40	0.00	15.60	11.90	15.60	0.00	1.40
	Nov	1.44	0.00	16.00	12.40	16.10	0.00	1.34
Mexico	Oct	5.25	27.00	17.50	27.00	45.20	1.50	3.05
	Nov	4.95	25.00	17.50	26.30	44.30	0.80	2.35
Southeast Asia 7/	Oct	2.75	30.91	16.90	38.90	46.70	0.73	3.12
	Nov	2.65	30.91	17.90	39.90	47.70	0.73	3.02
South Korea	Oct	1.88	0.08	10.50	8.20	10.60	0.00	1.85
	Nov	1.93	0.08	10.80	8.50	10.90	0.00	1.91
Selected Other								
Canada	Oct	2.58	14.00	1.00	8.50	13.70	1.50	2.38
	Nov	2.58	14.00	1.00	8.50	13.70	1.50	2.38
China	Oct	211.84	254.00	7.00	188.00	277.00	0.02	195.82
	Nov	211.32	254.00	7.00	188.00	277.00	0.02	195.30

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 - 594 - 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/	149.84	494.88	46.70	482.17	47.13	162.56
World Less China	51.34	346.01	41.20	339.68	45.75	53.56
United States	1.46	5.66	0.87	4.30	2.76	0.93
Total Foreign	148.38	489.23	45.83	477.87	44.37	161.63
Major Exporters 4/	27.64	181.69	0.76	144.77	36.45	28.88
Burma	0.55	13.20	0.01	10.20	2.75	0.81
India	20.55	112.76	0.00	98.67	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/	108.70	241.09	21.35	248.06	1.82	121.25
China	98.50	148.87	5.50	142.49	1.39	109.00
European Union 6/	1.19	2.01	2.01	3.68	0.35	1.18
Indonesia	2.92	37.00	2.35	38.10	0.00	4.16
Nigeria	1.86	4.73	2.00	6.90	0.00	1.69
Philippines	2.00	12.24	1.30	13.25	0.00	2.29
Sel. Mideast 7/	0.86	2.22	3.62	5.80	0.00	0.91
Selected Other						0.00
Brazil	0.63	8.20	0.56	7.75	1.15	0.49
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	2.22
Mexico	0.17	0.18	0.81	0.92	0.10	0.15
South Korea	2.00	3.97	0.40	4.75	0.06	1.56

**2018/19 Est.**

World 3/	162.56	499.34	43.71	488.61	44.15	173.29
World Less China	53.56	350.85	40.91	345.64	41.38	58.74
United States	0.93	7.12	0.92	4.58	2.97	1.42
Total Foreign	161.63	492.22	42.79	484.03	41.18	171.87
Major Exporters 4/	28.88	185.26	0.66	147.15	32.40	35.25
Burma	0.81	13.18	0.01	10.50	2.40	1.10
India	22.60	116.42	0.00	100.00	11.00	28.02
Pakistan	1.42	7.40	0.00	3.45	4.10	1.27
Thailand	3.01	20.34	0.25	11.70	8.20	3.70
Vietnam	1.03	27.92	0.40	21.50	6.70	1.16
Major Importers 5/	121.25	241.97	16.42	249.87	3.20	126.58
China	109.00	148.49	2.80	142.97	2.77	114.55
European Union 6/	1.18	1.94	2.10	3.78	0.32	1.13
Indonesia	4.16	36.70	0.40	38.00	0.00	3.26
Nigeria	1.69	4.79	1.90	7.00	0.00	1.38
Philippines	2.29	11.73	3.57	14.10	0.00	3.49
Sel. Mideast 7/	0.91	2.01	3.75	5.87	0.00	0.80
Selected Other						0.00
Brazil	0.49	7.14	0.90	7.55	0.75	0.23
C. Amer & Carib 8/	0.68	1.69	1.82	3.48	0.03	0.67
Egypt	1.56	2.80	0.90	4.15	0.02	1.09
Japan	2.22	7.66	0.69	8.50	0.06	2.01
Mexico	0.15	0.19	0.76	0.92	0.03	0.15
South Korea	1.56	3.87	0.41	4.71	0.10	1.02

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 - 594 - 25

**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/	Oct	171.85	497.77	43.85	494.54	45.88	175.09
	Nov	173.29	497.76	43.35	494.01	45.78	177.04
World Less China	Oct	56.85	351.77	40.75	351.54	42.58	57.29
	Nov	58.74	351.76	40.85	351.01	42.48	60.29
United States	Oct	1.42	5.99	0.94	4.16	3.02	1.18
	Nov	1.42	5.97	0.94	4.16	3.02	1.16
Total Foreign	Oct	170.43	491.78	42.91	490.38	42.86	173.91
	Nov	171.87	491.79	42.41	489.85	42.76	175.89
Major Exporters 4/	Oct	33.43	183.60	0.66	149.30	33.98	34.41
	Nov	35.25	184.60	0.66	149.10	33.75	37.66
Burma	Oct	0.90	13.30	0.01	10.50	2.63	1.08
	Nov	1.10	13.30	0.01	10.55	2.50	1.36
India	Oct	26.20	114.00	0.00	102.10	11.80	26.30
	Nov	28.02	115.00	0.00	102.00	12.00	29.02
Pakistan	Oct	1.27	7.50	0.00	3.55	4.00	1.22
	Nov	1.27	7.50	0.00	3.55	4.00	1.22
Thailand	Oct	3.70	20.50	0.25	11.20	9.00	4.25
	Nov	3.70	20.50	0.25	11.40	8.50	4.55
Vietnam	Oct	1.36	28.30	0.40	21.95	6.55	1.56
	Nov	1.16	28.30	0.40	21.60	6.75	1.51
Major Importers 5/	Oct	126.99	241.70	16.03	251.41	3.71	129.60
	Nov	126.58	240.60	15.43	250.58	3.71	128.32
China	Oct	115.00	146.00	3.10	143.00	3.30	117.80
	Nov	114.55	146.00	2.50	143.00	3.30	116.75
European Union 6/	Oct	1.13	2.01	2.05	3.80	0.30	1.09
	Nov	1.13	2.01	2.05	3.80	0.30	1.09
Indonesia	Oct	3.26	37.40	0.60	38.10	0.00	3.16
	Nov	3.26	36.50	1.40	38.10	0.00	3.06
Nigeria	Oct	1.29	4.90	2.20	7.30	0.00	1.09
	Nov	1.38	4.90	1.80	7.00	0.00	1.08
Philippines	Oct	3.49	12.20	2.70	14.60	0.00	3.79
	Nov	3.49	12.00	2.50	14.20	0.00	3.79
Sel. Mideast 7/	Oct	0.80	2.29	3.68	6.06	0.00	0.71
	Nov	0.80	2.29	3.68	6.08	0.00	0.69
Selected Other							
Brazil	Oct	0.23	7.14	1.10	7.60	0.50	0.37
	Nov	0.23	7.14	1.10	7.60	0.50	0.37
C. Amer & Carib 8/	Oct	0.67	1.55	1.90	3.44	0.03	0.65
	Nov	0.67	1.55	2.00	3.54	0.03	0.65
Egypt	Oct	1.09	4.30	0.30	4.35	0.10	1.24
	Nov	1.09	4.30	0.30	4.35	0.10	1.24
Japan	Oct	2.01	7.80	0.69	8.40	0.07	2.03
	Nov	2.01	7.80	0.69	8.40	0.07	2.03
Mexico	Oct	0.15	0.20	0.79	0.93	0.02	0.19
	Nov	0.15	0.20	0.79	0.93	0.02	0.19
South Korea	Oct	1.02	3.88	0.41	4.48	0.06	0.78
	Nov	1.02	3.88	0.41	4.48	0.06	0.78

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 - 594 - 26

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

2017/18	Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	80.29	123.78	41.16	122.76	41.41	0.12	80.94
World Less China	34.37	96.28	35.45	81.76	41.28	0.12	42.95
United States	2.75	20.92	3/	3.23	16.28	-0.03	4.20
Total Foreign	77.54	102.86	41.16	119.54	25.14	0.15	76.74
Major Exporters 4/	21.90	57.10	2.47	32.75	21.76	0.02	26.94
Central Asia 5/	2.18	6.50	3/	3.38	2.53	0.00	2.77
Afr. Fr. Zone 6/	1.46	5.44	3/	0.14	5.06	0.00	1.70
S. Hemis. 7/	10.18	15.70	0.24	4.44	8.65	0.01	13.01
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/	54.18	42.93	36.05	82.74	2.35	0.12	47.95
Mexico	0.45	1.56	0.93	1.90	0.35	0.03	0.66
China	45.92	27.50	5.71	41.00	0.14	0.00	37.99
European Union 9/	0.19	1.53	0.73	0.75	1.37	0.04	0.30
Turkey	1.53	4.00	4.02	7.45	0.33	0.00	1.78
Pakistan	2.32	8.20	3.40	10.90	0.16	0.03	2.83
Indonesia	0.62	3/	3.52	3.50	0.01	0.00	0.63
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	6.60	0.00	0.00	1.29

## 2018/19 Est.

World	80.94	118.80	42.50	120.29	41.28	0.12	80.55
World Less China	42.95	91.05	32.86	80.79	41.07	0.12	44.88
United States	4.20	18.37	3/	2.98	14.76	-0.02	4.85
Total Foreign	76.74	100.43	42.50	117.31	26.52	0.14	75.70
Major Exporters 4/	26.94	54.83	2.50	32.99	22.31	0.02	28.95
Central Asia 5/	2.77	5.44	3/	3.80	1.95	0.00	2.47
Afr. Fr. Zone 6/	1.70	5.36	3/	0.14	5.55	0.00	1.37
S. Hemis. 7/	13.01	16.89	0.18	4.39	10.86	0.01	14.82
Australia	3.04	2.20	3/	0.04	3.63	0.00	1.57
Brazil	8.66	12.52	0.02	3.40	6.01	0.00	11.78
India	9.23	26.50	1.80	24.00	3.51	0.00	10.01
Major Importers 8/	47.95	42.65	37.46	80.16	2.99	0.11	44.80
Mexico	0.66	1.74	0.85	1.95	0.50	0.03	0.77
China	37.99	27.75	9.64	39.50	0.21	0.00	35.67
European Union 9/	0.30	1.72	0.64	0.69	1.72	0.03	0.23
Turkey	1.78	3.70	3.50	6.90	0.48	0.00	1.59
Pakistan	2.83	7.60	2.85	10.70	0.06	0.03	2.50
Indonesia	0.63	3/	3.05	3.15	0.01	0.00	0.53
Thailand	0.20	3/	1.08	1.08	0.00	0.03	0.18
Bangladesh	1.86	0.14	7.20	7.40	0.00	0.01	1.78
Vietnam	1.29	3/	6.90	7.00	0.00	0.00	1.19

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 - 594 - 27

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

<b>2019/20 Proj.</b>		<b>Beginning Stocks</b>	<b>Production</b>	<b>Imports</b>	<b>Domestic Use</b>	<b>Exports</b>	<b>Loss /2</b>	<b>Ending Stocks</b>
World	Oct	80.73	124.77	42.90	121.61	42.91	0.19	83.69
	Nov	80.55	121.94	44.03	121.49	44.03	0.20	80.80
World Less China	Oct	45.06	97.02	33.40	82.11	42.74	0.19	50.45
	Nov	44.88	94.69	34.53	81.99	43.85	0.20	48.06
United States	Oct	4.85	21.71	0.01	3.00	16.50	0.06	7.00
	Nov	4.85	20.82	0.01	3.00	16.50	0.07	6.10
Total Foreign	Oct	75.88	103.07	42.90	118.61	26.41	0.13	76.69
	Nov	75.70	101.12	44.03	118.49	27.53	0.13	74.70
Major Exporters 4/	Oct	29.23	57.09	2.28	33.94	22.43	0.02	32.21
	Nov	28.95	56.44	2.48	33.75	23.13	0.02	30.97
Central Asia 5/	Oct	2.52	5.40	3/	3.99	1.53	0.00	2.40
	Nov	2.47	5.25	3/	4.04	1.53	0.00	2.15
Afr. Fr. Zone 6/	Oct	1.37	5.89	3/	0.14	5.41	0.00	1.71
	Nov	1.37	5.89	3/	0.14	5.66	0.00	1.46
S. Hemis. 7/	Oct	15.09	14.82	0.18	4.40	11.19	0.01	14.49
	Nov	14.82	14.82	0.18	4.38	11.54	0.01	13.89
Australia	Oct	1.57	1.20	3/	0.04	1.70	0.00	1.04
	Nov	1.57	1.20	3/	0.04	1.70	0.00	1.04
Brazil	Oct	12.01	11.60	0.03	3.40	8.30	0.00	11.94
	Nov	11.78	11.60	0.03	3.40	8.60	0.00	11.41
India	Oct	10.03	30.50	1.60	24.75	4.00	0.00	13.38
	Nov	10.01	30.00	1.80	24.50	4.10	0.00	13.21
Major Importers 8/	Oct	44.89	42.93	38.13	80.49	2.70	0.11	42.64
	Nov	44.80	41.63	38.97	80.54	2.84	0.11	41.90
Mexico	Oct	0.77	1.58	0.85	2.00	0.45	0.03	0.72
	Nov	0.77	1.58	0.85	2.00	0.45	0.03	0.72
China	Oct	35.67	27.75	9.50	39.50	0.18	0.00	33.25
	Nov	35.67	27.25	9.50	39.50	0.18	0.00	32.75
European Union 9/	Oct	0.24	1.76	0.68	0.71	1.67	0.03	0.27
	Nov	0.23	1.86	0.65	0.69	1.76	0.03	0.26
Turkey	Oct	1.69	4.10	3.20	6.90	0.35	0.00	1.74
	Nov	1.59	3.80	3.80	7.10	0.35	0.00	1.74
Pakistan	Oct	2.50	7.60	3.10	10.70	0.05	0.03	2.42
	Nov	2.50	7.00	3.60	10.70	0.10	0.03	2.27
Indonesia	Oct	0.51	3/	3.30	3.20	0.01	0.00	0.61
	Nov	0.53	3/	3.10	3.10	0.01	0.00	0.53
Thailand	Oct	0.18	3/	1.05	1.03	0.00	0.03	0.18
	Nov	0.18	3/	1.05	1.03	0.00	0.03	0.18
Bangladesh	Oct	1.78	0.14	7.30	7.40	0.00	0.01	1.81
	Nov	1.78	0.14	7.30	7.40	0.00	0.01	1.81
Vietnam	Oct	1.19	3/	7.50	7.40	0.00	0.00	1.29
	Nov	1.19	3/	7.50	7.40	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 - 594 - 28

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

<b>2017/18</b>	<b>Beginning Stocks</b>	<b>Production</b>	<b>Imports</b>	<b>Domestic Crush</b>	<b>Domestic Total</b>	<b>Exports</b>	<b>Ending Stocks</b>
World 2/	95.62	341.61	153.29	294.90	338.34	153.07	99.11
World Less China	75.50	326.33	59.20	204.90	232.04	152.93	76.04
United States	8.21	120.07	0.59	55.93	58.87	58.07	11.92
Total Foreign	87.41	221.54	152.70	238.97	279.47	94.99	87.19
Major Exporters 3/	60.64	171.43	4.89	85.08	94.17	85.55	57.25
Argentina	27.00	37.80	4.70	36.93	43.63	2.13	23.73
Brazil	33.21	122.00	0.18	44.21	46.51	76.14	32.74
Paraguay	0.44	10.30	0.01	3.87	3.94	6.03	0.77
Major Importers 4/	22.79	19.19	124.51	116.06	140.35	0.43	25.71
China	20.12	15.28	94.10	90.00	106.30	0.13	23.06
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

**2018/19 Est.**

World 2/	99.11	358.21	145.72	298.55	344.24	149.13	109.66
World Less China	76.04	342.31	63.18	213.55	242.24	149.01	90.28
United States	11.92	120.52	0.38	56.94	60.41	47.56	24.85
Total Foreign	87.19	237.69	145.33	241.61	283.83	101.57	84.82
Major Exporters 3/	57.25	183.98	6.56	87.54	97.15	92.21	58.43
Argentina	23.73	55.30	6.41	40.56	47.45	9.10	28.89
Brazil	32.74	117.00	0.14	43.00	45.64	74.86	29.38
Paraguay	0.77	8.85	0.01	3.90	3.98	5.50	0.15
Major Importers 4/	25.71	19.77	115.21	113.30	138.49	0.33	21.88
China	23.06	15.90	82.54	85.00	102.00	0.12	19.39
European Union	1.40	2.66	15.05	16.20	17.86	0.18	1.08
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

**2019/20 Proj.**

World 2/	Oct	109.87	338.97	148.10	305.21	352.34	149.39	95.21
	Nov	109.66	336.56	148.54	302.71	349.60	149.75	95.42
World Less China	Oct	90.13	321.87	63.10	220.21	249.64	149.27	76.19
	Nov	90.28	319.46	63.54	218.21	247.40	149.62	76.26
United States	Oct	24.85	96.62	0.54	57.70	61.19	48.31	12.52
	Nov	24.85	96.62	0.54	57.29	60.78	48.31	12.92
Total Foreign	Oct	85.03	242.35	147.55	247.52	291.15	101.09	82.69
	Nov	84.82	239.95	147.99	245.42	288.82	101.44	82.50
Major Exporters 3/	Oct	58.20	188.40	4.11	91.73	101.75	92.83	56.13
	Nov	58.43	188.40	4.11	91.73	101.70	93.13	56.11
Argentina	Oct	29.20	53.00	3.90	44.00	51.15	8.00	26.95
	Nov	28.89	53.00	3.90	44.00	51.10	8.80	25.89
Brazil	Oct	28.84	123.00	0.20	43.75	46.54	76.50	29.00
	Nov	29.38	123.00	0.20	43.75	46.54	76.00	30.04
Paraguay	Oct	0.15	10.20	0.01	3.90	3.98	6.20	0.18
	Nov	0.15	10.20	0.01	3.90	3.98	6.20	0.18
Major Importers 4/	Oct	22.29	20.81	119.14	113.81	139.96	0.39	21.89
	Nov	21.88	20.81	119.24	113.31	139.46	0.42	22.05
China	Oct	19.74	17.10	85.00	85.00	102.70	0.13	19.02
	Nov	19.39	17.10	85.00	84.50	102.20	0.13	19.16
European Union	Oct	1.14	2.60	15.10	15.90	17.56	0.23	1.05
	Nov	1.08	2.60	15.20	15.90	17.56	0.25	1.07
Southeast Asia	Oct	1.03	0.64	9.89	4.53	10.14	0.04	1.37
	Nov	1.03	0.64	9.89	4.53	10.14	0.04	1.37
Mexico	Oct	0.20	0.22	5.80	5.95	5.99	0.00	0.23
	Nov	0.20	0.22	5.80	5.95	5.99	0.00	0.23

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 - 594 - 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/	13.88	232.67	60.21	229.25	64.83	12.68
World Less China	13.88	161.39	60.19	159.15	63.63	12.68
United States	0.36	44.66	0.44	32.24	12.72	0.50
Total Foreign	13.51	188.01	59.77	197.02	52.11	12.17
Major Exporters 3/	7.30	68.86	0.03	25.45	44.16	6.59
Argentina	3.34	28.40	0.00	3.00	26.27	2.48
Brazil	3.32	34.30	0.02	17.71	16.03	3.90
India	0.65	6.16	0.01	4.74	1.86	0.22
Major Importers 4/	1.84	20.48	38.77	58.96	0.66	1.46
European Union	0.49	11.81	18.35	30.04	0.40	0.21
Mexico	0.04	4.15	1.93	6.05	0.02	0.05
Southeast Asia 5/	1.22	2.70	16.75	19.42	0.25	1.01

**2018/19 Est.**

World 2/	12.68	234.36	62.65	230.75	67.40	11.53
World Less China	12.68	167.04	62.63	164.34	66.47	11.53
United States	0.50	44.28	0.62	32.74	12.30	0.37
Total Foreign	12.17	190.08	62.03	198.01	55.11	11.17
Major Exporters 3/	6.59	72.23	0.07	26.53	46.92	5.44
Argentina	2.48	31.20	0.00	3.10	28.81	1.77
Brazil	3.90	33.35	0.02	18.15	15.91	3.21
India	0.22	7.68	0.05	5.28	2.20	0.47
Major Importers 4/	1.46	22.23	38.99	60.54	0.59	1.56
European Union	0.21	12.80	18.60	30.89	0.36	0.36
Mexico	0.05	4.35	1.90	6.23	0.02	0.06
Southeast Asia 5/	1.01	3.28	16.86	19.94	0.22	1.00

**2019/20 Proj.**

World 2/	Oct	11.25	239.71	64.41	236.24	67.99	11.14
	Nov	11.53	237.83	63.78	235.20	67.20	10.75
World Less China	Oct	11.25	172.39	64.36	169.77	67.09	11.14
	Nov	11.53	170.90	63.73	169.12	66.30	10.75
United States	Oct	0.41	45.18	0.45	33.25	12.43	0.36
	Nov	0.37	44.90	0.45	33.25	12.11	0.36
Total Foreign	Oct	10.84	194.53	63.95	202.99	55.56	10.78
	Nov	11.17	192.92	63.33	201.95	55.08	10.38
Major Exporters 3/	Oct	5.76	75.46	0.04	28.14	47.40	5.72
	Nov	5.44	74.10	0.08	27.60	46.95	5.07
Argentina	Oct	2.34	33.75	0.00	3.39	30.30	2.40
	Nov	1.77	33.75	0.00	3.30	30.30	1.92
Brazil	Oct	3.21	33.95	0.03	18.95	15.20	3.04
	Nov	3.21	33.95	0.03	18.95	15.20	3.04
India	Oct	0.21	7.76	0.02	5.80	1.90	0.29
	Nov	0.47	6.40	0.05	5.35	1.45	0.12
Major Importers 4/	Oct	1.46	22.63	39.68	61.55	0.60	1.62
	Nov	1.56	22.63	39.68	61.55	0.60	1.72
European Union	Oct	0.25	12.56	19.00	31.19	0.35	0.27
	Nov	0.36	12.56	19.00	31.19	0.35	0.38
Mexico	Oct	0.06	4.70	1.98	6.65	0.02	0.08
	Nov	0.06	4.70	1.98	6.65	0.02	0.08
Southeast Asia 5/	Oct	1.01	3.54	17.02	20.21	0.23	1.13
	Nov	1.00	3.54	17.02	20.21	0.23	1.12

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 India. 4/ European Union, Southeast Asia, and Japan. 5/ Indonesia, Malaysia, Philippines, Vietnam, and Thailand. Totals may not add due to rounding.

## WASDE - 594 - 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/		3.76	55.15	9.82	54.68	10.54	3.51
World Less China		3.09	39.02	9.34	38.18	10.32	2.95
United States		0.78	10.78	0.15	9.70	1.11	0.91
Total Foreign		2.98	44.36	9.67	44.98	9.43	2.61
Major Exporters 3/		0.74	19.31	0.33	12.28	7.28	0.83
Argentina		0.28	7.24	0.00	3.08	4.16	0.27
Brazil		0.29	8.50	0.05	6.94	1.51	0.39
European Union		0.16	2.84	0.28	2.23	0.90	0.16
Major Importers 4/		1.37	18.44	5.86	24.43	0.27	0.96
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	2.13	0.06	0.18
<b>2018/19 Est.</b>							
World 2/		3.51	55.89	10.68	55.29	11.11	3.68
World Less China		2.95	40.66	9.89	39.40	10.91	3.18
United States		0.91	10.98	0.18	10.37	0.88	0.81
Total Foreign		2.61	44.92	10.50	44.91	10.23	2.88
Major Exporters 3/		0.83	19.97	0.46	12.32	7.87	1.07
Argentina		0.27	7.91	0.00	2.68	5.26	0.24
Brazil		0.39	8.25	0.05	7.19	1.09	0.40
European Union		0.16	3.08	0.40	2.41	0.81	0.42
Major Importers 4/		0.96	18.00	6.39	24.14	0.26	0.94
China		0.57	15.23	0.78	15.89	0.20	0.50
India		0.12	1.73	3.10	4.81	0.01	0.13
North Africa 5/		0.18	0.75	1.46	2.20	0.06	0.13
<b>2019/20 Proj.</b>							
World 2/	Oct	3.77	57.20	11.74	57.17	11.87	3.68
	Nov	3.68	56.75	11.63	56.83	11.83	3.41
World Less China	Oct	3.26	41.97	10.54	40.88	11.72	3.18
	Nov	3.18	41.61	10.43	40.55	11.68	3.00
United States	Oct	0.78	11.15	0.20	10.66	0.78	0.69
	Nov	0.81	11.08	0.20	10.66	0.77	0.66
Total Foreign	Oct	2.99	46.05	11.54	46.51	11.09	2.98
	Nov	2.88	45.68	11.43	46.17	11.06	2.75
Major Exporters 3/	Oct	1.08	20.80	0.41	12.43	8.76	1.09
	Nov	1.07	20.80	0.41	12.43	8.76	1.08
Argentina	Oct	0.30	8.65	0.00	2.69	5.95	0.31
	Nov	0.24	8.65	0.00	2.69	5.95	0.25
Brazil	Oct	0.40	8.39	0.05	7.30	1.15	0.39
	Nov	0.40	8.39	0.05	7.30	1.15	0.38
European Union	Oct	0.38	3.02	0.35	2.41	0.95	0.39
	Nov	0.42	3.02	0.35	2.41	0.95	0.44
Major Importers 4/	Oct	1.03	18.04	7.41	25.22	0.24	1.02
	Nov	0.94	17.68	7.30	24.89	0.22	0.82
China	Oct	0.51	15.23	1.20	16.29	0.15	0.50
	Nov	0.50	15.14	1.20	16.29	0.15	0.41
India	Oct	0.23	1.75	3.50	5.24	0.01	0.23
	Nov	0.13	1.44	3.50	4.95	0.01	0.12
North Africa 5/	Oct	0.13	0.73	1.66	2.32	0.08	0.12
	Nov	0.13	0.77	1.55	2.27	0.06	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 - 594 - 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	IV Annual	6,862	7,031	13,952	10,588	1,518	12,239	26,191	2,331	53.4
		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	10,384	1,446	11,957	25,264	2,307	54.5
	II	6,814	6,615	13,487	10,933	1,450	12,513	26,000	2,337	55.8
	III	6,923	6,707	13,683	11,396	1,453	12,984	26,667	2,338	54.3
	IV*	6,885	7,460	14,400	11,025	1,540	12,692	27,092	2,360	54.1
	Annual									
	Oct Proj.	26,948	27,578	54,750	43,667	5,846	50,017	104,767	9,344	218.2
2020	Nov Proj.	27,036	27,620	54,878	43,738	5,889	50,146	105,024	9,342	218.6
	I*	6,510	7,180	13,747	10,640	1,450	12,216	25,963	2,330	55.8
	II*	7,055	6,825	13,936	11,190	1,460	12,792	26,728	2,350	56.9
	III*	6,945	6,990	13,990	11,565	1,465	13,173	27,163	2,360	55.0
	Annual									
	Oct Proj.	27,670	28,680	56,578	44,385	5,910	50,841	107,419	9,420	221.6
	Nov Proj.	27,550	28,680	56,458	44,535	5,925	51,006	107,464	9,420	222.4

\* 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	IV Annual	115.32	42.77	86.7	81.4	125.6	17.07
		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	118.79	57.95	97.7	85.5	69.7	17.93
	III	108.16	50.08	82.0	90.8	81.9	18.97
	IV*	112.00	44.00	81.0	95.0	110.0	20.50
	Annual						
	Oct Proj.	115.50	49.00	87.50	88.50	89.50	18.40
2020	Nov Proj.	116.00	48.00	88.50	88.50	92.00	18.60
	I*	120.00	54.00	90.0	86.0	87.0	19.25
	II*	117.00	59.00	100.0	88.0	88.0	18.65
	III*	113.00	61.00	90.0	91.0	105.0	18.75
	Annual						
	Oct Proj.	116	58	91	90	99	18.85
	Nov Proj.	116	57	91	90	99	18.85

\*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 - 594 - 32

## U.S. Meats Supply and Use

		Beginning Production stocks	1/ Imports	Total Supply	Exports	Ending Stocks	Total Use	Per Capita 2/ 3/	
Million Pounds /4									
Beef	2018	649	26,938	2,998	30,585	3,161	662	26,762	57.2
	2019 Proj. Oct	662	27,014	3,030	30,706	3,126	675	26,905	57.2
	Nov	662	27,102	2,960	30,724	3,104	650	26,970	57.3
	2020 Proj. Oct	675	27,736	2,870	31,281	3,305	675	27,301	57.7
	Nov	650	27,616	2,870	31,136	3,305	665	27,166	57.4
Pork	2018	554	26,330	1,042	27,926	5,876	559	21,491	50.9
	2019 Proj. Oct	559	27,592	956	29,107	6,580	590	21,937	51.7
	Nov	559	27,634	958	29,150	6,496	550	22,104	52.1
	2020 Proj. Oct	590	28,694	915	30,199	7,300	630	22,269	52.1
	Nov	550	28,694	915	30,159	7,300	580	22,279	52.2
Total Red Meat 5/	2018	1,246	53,507	4,313	59,066	9,043	1,266	48,757	109.5
	2019 Proj. Oct	1,266	54,839	4,239	60,344	9,713	1,310	49,321	110.1
	Nov	1,266	54,967	4,169	60,402	9,606	1,242	49,554	110.7
	2020 Proj. Oct	1,310	56,668	4,029	62,007	10,612	1,344	50,051	111.1
	Nov	1,242	56,548	4,022	61,812	10,612	1,284	49,916	110.8
Broiler	2018	856	42,145	139	43,140	7,069	845	35,227	92.4
	2019 Proj. Oct	845	43,200	130	44,174	7,111	895	36,169	94.3
	Nov	845	43,270	132	44,247	7,040	895	36,312	94.7
	2020 Proj. Oct	895	43,910	132	44,937	7,250	870	36,817	95.4
	Nov	895	44,058	134	45,087	7,250	870	36,967	95.8
Turkey	2018	310	5,878	19	6,206	611	303	5,293	16.2
	2019 Proj. Oct	303	5,846	13	6,162	637	265	5,259	16.0
	Nov	303	5,889	13	6,205	637	265	5,303	16.1
	2020 Proj. Oct	265	5,910	16	6,191	660	285	5,246	15.8
	Nov	265	5,925	12	6,202	660	285	5,257	15.9
Total Poultry 6/	2018	1,170	48,562	160	49,892	7,764	1,153	40,975	110.0
	2019 Proj. Oct	1,153	49,549	145	50,847	7,830	1,167	41,851	111.6
	Nov	1,153	49,678	148	50,979	7,760	1,167	42,051	112.1
	2020 Proj. Oct	1,167	50,365	151	51,683	7,990	1,163	42,530	112.7
	Nov	1,167	50,529	149	51,845	7,990	1,163	42,692	113.1
Red Meat & Poultry	2018	2,416	102,069	4,473	108,958	16,807	2,419	89,732	219.5
	2019 Proj. Oct	2,419	104,389	4,384	111,192	17,543	2,477	91,172	221.7
	Nov	2,419	104,645	4,317	111,381	17,367	2,409	91,605	222.8
	2020 Proj. Oct	2,477	107,033	4,180	113,690	18,602	2,507	92,581	223.8
	Nov	2,409	107,077	4,171	113,657	18,602	2,447	92,608	223.9

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 - 594 - 33

## U.S. Egg Supply and Use

	2017	2018	2019 Proj. Oct	2019 Proj. Nov	2020 Proj. Oct	2020 Proj. Nov
Eggs	<i>Million Dozen</i>					
Supply						
Beginning Stocks	142.2	87.5	78.8	78.8	104.0	104.0
Production	8,942.7	9,114.6	9,344.0	9,341.6	9,420.0	9,420.0
Imports	34.2	17.8	15.5	15.0	16.0	16.0
Total Supply	9,119.1	9,220.0	9,438.3	9,435.4	9,540.0	9,540.0
Use						
Exports	354.9	333.1	314.3	318.7	300.0	300.0
Hatching Use	1,035.2	1,057.5	1,073.1	1,079.6	1,090.0	1,090.0
Ending Stocks	87.5	78.8	104.0	104.0	108.0	108.0
Disappearance						
Total	7,641.5	7,750.6	7,946.8	7,933.2	8,042.0	8,042.0
Per Capita (number)	281.8	284.0	289.5	289.0	291.2	291.2

## U.S. Milk Supply and Use

	2017	2018	2019 Proj. Oct	2019 Proj. Nov	2020 Proj. Oct	2020 Proj. Nov
Milk	<i>Billion Pounds</i>					
Production	215.5	217.6	218.2	218.6	221.6	222.4
Farm Use	1.0	1.0	1.0	1.0	1.0	1.0
Fat Basis Supply						
Beg. Commercial Stocks	12.7	13.4	13.8	13.8	13.0	13.7
Marketings	214.5	216.6	217.1	217.5	220.5	221.4
Imports	6.0	6.3	7.0	7.2	6.5	6.5
Total Cml. Supply	233.2	236.3	237.9	238.5	240.0	241.6
Fat Basis Use						
Commercial Exports	9.2	10.4	9.0	9.0	9.3	9.2
Ending Commercial Stocks	13.4	13.8	13.0	13.7	12.8	13.2
CCC Donations	0.0	0.0	0.2	0.2	0.2	0.2
Domestic Commercial Use	210.6	212.1	215.7	215.6	217.8	219.0
Skim-solid Basis Supply						
Beg. Commercial Stocks	9.5	11.8	10.7	10.7	10.4	10.6
Marketings	214.5	216.6	217.1	217.5	220.5	221.4
Imports	6.1	5.5	5.9	5.8	5.5	5.5
Total Cml. Supply	230.1	233.8	233.7	234.0	236.4	237.5
Skim-solid Basis Use						
Commercial Exports	40.8	44.7	40.0	40.4	43.0	43.0
Ending Commercial Stocks	11.8	10.7	10.4	10.6	9.5	10.8
CCC Donations	0.0	0.0	0.2	0.2	0.1	0.1
Domestic Commercial Use	177.5	178.5	183.1	182.8	183.8	183.6

Note: Totals may not add due to rounding.

## WASDE - 594 - 34

## U.S. Dairy Prices

	2017	2018	2019 Proj. Oct	2019 Proj. Nov	2020 Proj. Oct	2020 Proj. Nov
Product Prices 1/	<i>Dollars Per Pound</i>					
Cheese	1.6344	1.5377	1.710	1.765	1.790	1.860
Butter	2.3303	2.2572	2.260	2.250	2.200	2.060
Nonfat Dry Milk	0.8666	0.7945	1.020	1.035	1.040	1.095
Dry Whey	0.4437	0.3422	0.390	0.380	0.375	0.320
	<i>Dollars Per Cwt</i>					
Milk Prices 2/						
Class III	16.17	14.61	16.55	17.00	17.20	17.50
Class IV	15.16	14.23	16.20	16.30	16.10	15.95
All Milk 3/	17.65	16.26	18.40	18.60	18.85	18.85

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 - 594 - 35

## Reliability of November Projections 1/

Note: Tables on pages 35-37 present a record of the November projection and the final Estimate. Using world wheat production as an example, the "root mean square error" means that chances are 2 out of 3 that the current forecast will not be above or below the final estimate by more than 1.2 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 2 percent. The average difference between the November projection and the final estimate is 5.5 million tons, ranging from 0.1 million to 18.1 million tons. The November projection has been below the estimate 28 times and above 10 times.

	Differences between forecast and final estimate						
	Root mean square error	90 percent confidence interval	Average	Smallest	Largest	Below Final	Above Final
	<i>Percent</i>		<i>Million Metric Tons</i>				
WHEAT							
Production							
World	1.2	2.0	5.5	0.1	18.1	28	10
U.S.	0.4	0.7	0.2	0.0	1.2	18	13
Foreign	1.4	2.3	5.4	0.0	18.2	28	10
Exports							
World	5.7	9.6	6.0	0.2	19.2	31	7
U.S.	7.6	12.8	2.0	0.2	8.6	17	21
Foreign	6.9	11.8	5.8	0.3	17.2	33	5
Domestic Use							
World	1.3	2.3	5.8	0.0	18.8	23	14
U.S.	6.0	10.2	1.6	0.1	3.6	11	27
Foreign	1.4	2.4	6.0	0.5	21.1	26	12
Ending Stocks							
World	6.2	10.5	7.9	0.9	23.1	29	9
U.S.	11.4	19.3	2.1	0.2	7.0	24	14
Foreign	6.4	10.8	6.6	0.8	22.7	29	9
COARSE GRAINS 2/							
Production							
World	1.6	2.7	13.2	0.2	47.3	29	9
U.S.	1.3	2.2	2.4	0.0	7.5	19	19
Foreign	2.2	3.8	13.3	0.2	48.8	29	9
Exports							
World	6.8	11.5	6.7	0.1	29.7	26	12
U.S.	16.1	27.3	6.0	0.4	14.7	19	19
Foreign	12.5	21.2	7.3	0.3	23.5	25	13
Domestic Use							
World	1.4	2.3	10.7	0.2	41.9	22	16
U.S.	3.6	6.2	5.2	0.2	17.2	18	20
Foreign	1.6	2.7	9.7	0.3	42.2	25	13
Ending Stocks							
World	12.5	21.2	13.0	0.3	39.6	31	7
U.S.	20.4	34.7	7.8	0.6	23.9	21	17
Foreign	16.3	27.6	11.1	0.2	31.1	34	4
RICE, milled							
Production							
World	2.1	3.6	5.9	0.1	16.8	32	6
U.S.	2.9	4.9	0.1	0.0	0.5	19	16
Foreign	2.1	3.6	5.9	0.2	16.9	32	6
Exports							
World	9.2	15.6	1.8	0.1	6.0	30	8
U.S.	9.5	16.1	0.2	0.0	0.7	20	15
Foreign	10.5	17.8	1.7	0.0	6.0	28	10
Domestic Use							
World	1.7	2.9	4.0	0.1	17.5	31	7
U.S.	8.4	14.2	0.2	0.0	0.6	19	19
Foreign	1.7	2.9	4.0	0.0	17.7	32	6
Ending Stocks							
World	10.8	18.3	5.5	0.1	24.6	31	7
U.S.	22.8	38.8	0.2	0.0	0.8	22	16
Foreign	11.2	19.0	5.6	0.1	24.4	31	7

1/ Footnotes at end of table.

CONTINUED

## WASDE - 594 - 36

## Reliability of November 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	4.0	6.8	6.1	0.1	25.1	22	16
U.S.	2.2	3.7	1.2	0.1	4.7	15	23
Foreign	6.6	11.2	5.9	0.0	26.4	20	18
Exports							
World	7.2	12.3	3.4	0.0	13.4	24	14
U.S.	10.1	17.2	2.4	0.1	7.1	24	14
Foreign	18.2	30.8	2.8	0.1	11.7	19	19
Domestic Use							
World	2.9	4.9	4.1	0.0	14.2	22	16
U.S.	3.6	6.2	1.3	0.0	3.8	26	12
Foreign	3.6	6.1	3.9	0.2	12.8	22	16
Ending Stocks							
World	16.3	27.6	4.4	0.0	18.4	21	17
U.S.	48.7	82.6	2.3	0.1	7.3	9	29
Foreign	17.3	29.4	3.9	0.1	18.2	22	16
COTTON	<i>Million 480-Pound Bales</i>						
Production							
World	3.6	6.1	2.5	0.1	9.3	24	14
U.S.	2.9	5.0	0.4	0.0	1.0	19	18
Foreign	4.2	7.1	2.4	0.1	8.9	24	14
Exports							
World	7.8	13.2	2.0	0.1	10.3	25	13
U.S.	17.2	29.2	1.1	0.1	3.2	23	15
Foreign	10.2	17.3	1.5	0.0	8.9	20	17
Domestic Use							
World	3.5	5.9	2.6	0.0	11.1	18	19
U.S.	7.4	12.5	0.3	0.0	1.1	19	19
Foreign	3.5	6.0	2.5	0.0	10.6	19	19
Ending Stocks							
World	12.0	20.3	4.8	0.3	14.6	24	14
U.S.	31.9	54.1	1.1	0.1	3.5	13	25
Foreign	12.8	21.7	4.6	0.0	15.1	26	12

1/ 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. 2/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain.

## WASDE - 594 - 37

## Reliability of United States November 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
CORN	<i>Percent</i>		<i>Million Bushels</i>				
Production	1.3	2.2	90	0	250	19	18
Exports	16.6	28.2	212	9	575	18	20
Domestic Use	3.9	6.6	200	3	574	22	16
Ending Stocks	23.2	39.4	304	17	986	19	19
SORGHUM							
Production	4.1	7.0	15	1	53	20	18
Exports	19.6	33.3	31	0	123	21	16
Domestic Use	18.4	31.2	34	0	127	18	19
Ending Stocks	47.2	80.0	25	2	104	14	24
BARLEY							
Production	1.5	2.5	4	0	24	16	10
Exports	38.9	66.1	9	0	37	14	19
Domestic Use	7.7	13.1	17	0	70	13	24
Ending Stocks	13.7	23.3	13	0	38	25	11
OATS							
Production	1.1	1.9	2	0	18	7	9
Exports	72.0	122.1	1	0	7	9	10
Domestic Use	5.5	9.4	12	1	39	15	23
Ending Stocks	20.7	35.1	14	1	52	25	13
SOYBEAN MEAL			<i>Thousand Short Tons</i>				
Production	3.6	6.2	1,067	14	3,250	24	14
Exports	11.6	19.7	730	0	3,600	20	15
Domestic Use	3.4	5.7	719	30	2,350	18	20
Ending Stocks	28.3	48.1	44	0	249	14	13
SOYBEAN OIL			<i>Million Pounds</i>				
Production	3.9	6.6	523	40	2,240	27	11
Exports	28.5	48.3	347	0	1,425	20	17
Domestic Use	3.8	6.5	462	56	1,828	25	13
Ending Stocks	23.4	39.7	345	0	1,077	19	18
ANIMAL PROD.			<i>Million Pounds</i>				
Beef	3.8	6.4	778	92	2,461	25	12
Pork	3.2	5.4	413	2	1,592	21	16
Broilers	1.8	3.1	407	17	1,394	23	14
Turkeys	3.4	5.8	134	2	444	21	16
			<i>Million Dozen</i>				
Eggs	2.0	3.3	110	2	513	26	11
			<i>Billion Pounds</i>				
Milk	1.5	2.6	1.7	0.0	6.0	18	13

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 1982 through 2018 for meats, eggs, and milk. Final for animal products is defined as the latest annual production estimate published by NASS for 1982-2018.

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## Related USDA Reports

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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>.

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## Supply and Demand Database

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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.

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## Foreign Production Assessments

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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/).

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## Metric Conversion Factors

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**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



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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-594 – November 8, 2019**

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