

# World Agricultural Supply and Demand Estimates

ISSN: 1554-9089

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

WASDE - 591

Approved by the World Agricultural Outlook Board

August 12, 2019

**WHEAT:** The outlook for 2019/20 U.S. wheat this month is for greater supplies, increased use and higher ending stocks. U.S. wheat production is raised 59 million bushels to 1,980 million on increased winter wheat and other spring wheat production as indicated by the NASS August *Crop Production* report. Estimated food use for the 2018/19 market year is lowered 5 million bushels to 955 million based on the latest NASS *Flour Milling Products* report. Food use for the 2019/20 market year is also lowered 5 million bushels to 960 million. Feed and residual use is raised 20 million bushels to 170 million on greater wheat supplies and more competitive prices. Projected 2019/20 U.S. wheat exports are raised 25 million bushels to 975 million on lower exportable supplies from key competitors, notably the EU, Kazakhstan, and Russia. Ending stocks for 2019/20 are raised 14 million bushels to 1,014 million, down 5 percent from the previous year. The season-average farm price is lowered \$0.20 per bushel to \$5.00 on updated NASS prices, lower U.S. corn prices, and reduced wheat price expectations for the remainder of the market year.

Foreign 2019/20 wheat supplies are reduced 4.5 million tons, primarily on lower production in several major competing exporters. The production declines are led by a 2.0-million-ton reduction for Turkey on both an updated harvested area estimate as well as a lower yield. EU, Kazakhstan, and Russia are lowered 1.3 million tons, 1.0 million tons, and 1.2 million tons, respectively. These reductions are based on harvest results confirming yield losses due to hot and dry June conditions in winter wheat regions and expanding dryness in the spring wheat areas of Russia and Kazakhstan. Moldova production is also down 0.2 million tons. Partly offsetting is a 0.5-million-ton production increase for Argentina and a 0.2-million-ton increase for Ukraine.

Projected 2019/20 global exports are down 0.5 million tons led by a 1.0-million-ton reduction for Kazakhstan and 0.5-million-ton reductions each for the EU and Russia, all on the smaller crops. Partly offsetting is a 0.7-million-ton increase for the United States and 0.5-million-ton increases for both Argentina and Ukraine. Projected 2019/20 world consumption is 2.0 million tons lower on both reduced feed and residual use and food and industrial consumption. With supplies falling more than use, global ending stocks are revised 1.1 million tons lower to 285.4 million tons, but remain record large.

**COARSE GRAINS:** This month's 2019/20 U.S. corn outlook is for larger supplies, reduced exports and corn used for ethanol, and greater ending stocks. Corn production is forecast at 13.9 billion bushels, up 26 million from the July projection as a decline in harvested acres is virtually offset by an increase in yield. The season's first survey-based corn yield forecast, at 169.5 bushels per acre, is 3.5 bushels higher than last month's projection. Today's *Crop Production* report indicates that Illinois, Indiana, Iowa, Minnesota, Nebraska, Ohio, and South Dakota are forecast to have yields below a year ago. Of the major producing states, only Missouri is forecast to have yields above a year ago. Corn used for ethanol is reduced 25

million bushels to 5.5 billion. Exports are lowered reflecting U.S. export competitiveness and expectations of increasing competition from Argentina, Brazil, and Ukraine. With supply rising and use falling, ending stocks are up 171 million bushels to 2.2 billion. The season-average corn price received by producers is lowered 10 cents to \$3.60 per bushel.

This month's 2019/20 foreign coarse grain outlook is for larger production, increased trade, and greater stocks relative to last month. Ukraine corn production is projected record high, reflecting increases to both area and yield. Cool temperatures and timely rain during reproduction are expected to boost yield prospects. EU corn production is raised, as increases for Romania, Hungary, and Bulgaria more than offset declines for Poland, France, and Germany. Barley production is raised for Argentina and Russia, but lowered for Turkey, the EU, and Kazakhstan.

Major global coarse grain trade changes for 2019/20 include corn export increases for Ukraine and Serbia, with a partially-offsetting reduction for Russia. For 2018/19, exports for Argentina and Brazil are raised for the local marketing year beginning March 2019, based on larger-than-expected shipments during the month of July. Corn imports for 2019/20 are raised largely reflecting increases for the EU and Indonesia. For China, corn feed and residual use is lowered based on lower forecast protein meal consumption. Foreign corn ending stocks are higher relative to last month, mostly reflecting increases for China, EU, Ukraine, and Turkey partially offset by reductions for Argentina and Indonesia.

**RICE:** The outlook for 2019/20 U.S. rice this month is for lower supplies, reduced domestic use, and lower ending stocks. Supplies are reduced on a combination of lower beginning stocks and smaller production. The first survey-based forecast for the 2019/20 crop year lowered all rice U.S. production by 3.3 million cwt to 205.4 million with all of the reduction on a lower yield forecast. Long-grain production is reduced 3.0 million cwt, while combined medium- and short-grain is lowered 0.3 million. The all rice yield forecast is lowered 121 pounds per acre from the previous forecast to 7,577 pounds. Rice yields in all states are unchanged or below last year with the exception of California. All rice domestic and residual use is reduced 1.0 million cwt to 137.0 million on the lower production while exports are unchanged at 101.0 million. Projected 2019/20 all rice ending stocks are lowered 3.3 million cwt to 47.2 million, down 7 percent from last year's revised 50.6 million. The projected 2019/20 all rice season-average farm price is raised by \$0.40 per cwt to \$12.20 with increases for both long-grain and combined medium- and short-grain prices.

Global 2019/20 rice supplies are raised by 0.4 million tons to 669.2 million on a combination of higher beginning stocks and increased production. Global production is higher as increases for Iraq and Vietnam more than offset reductions for Thailand, the United States, and the EU. Worsening drought conditions in Thailand are expected to reduce rice production by 0.4 million tons to 20.5 million. World 2019/20 consumption is lowered to 494.5 million tons, mainly on reduced expected use in China for rice feeding and less availability of rice from domestic auctions of stocks. Global 2019/20 trade is lowered 0.3 million tons to 46.6 million, largely on reduced exports by Thailand as its exports are expected to be less competitive compared to other Asian suppliers. Projected world ending stocks are up 2.0 million tons to a record 174.7 million with China accounting for virtually all of the increase. China now comprises 68 percent of 2019/20 global rice stocks.

**OILSEEDS:** U.S. oilseed production for 2019/20 is projected at 111.5 million tons, down 4.5 million from last month mainly due to a lower soybean production forecast. Soybean production is forecast at 3.68 billion bushels, down 165 million on lower harvested area. Harvested area is forecast at 75.9 million acres, down 3.4 million from the NASS June *Acreage Report* led by reductions for Ohio and South Dakota. These States account for almost half of the national reduction. The first survey-based soybean yield forecast of 48.5 bushels per acre is unchanged from last month but 3.1 bushels below last year's level. With lower production partly offset by higher beginning stocks, soybean supplies for 2019/20 are projected at 4.77 billion bushels, down 3 percent from last month. U.S. soybean exports are reduced 100 million bushels to 1.78 billion reflecting reduced global import demand, mainly for China. Soybean ending stocks are projected at 755 million bushels, down 40 million.

The U.S. season-average soybean price for 2019/20 is forecast at \$8.40 per bushel, unchanged from last month. The soybean meal and oil price forecasts are also unchanged at \$300 per short ton and 29.5 cents per pound, respectively.

Changes for 2018/19 include reduced soybean crush, reflecting lower domestic use and exports of soybean meal. Soybean ending stocks are projected at 1.07 billion bushels, up 20 million.

This month's 2019/20 global oilseed supply and demand forecasts include lower production, trade, and stocks compared to last month. Lower soybean, rapeseed, and peanut production are partly offset by higher sunflowerseed output. Rapeseed production is lowered for the EU mainly on a lower area and yield for France. India's soybean and peanut harvested area is reduced due to slow planting progress to date. Ukraine's sunflowerseed production is forecast higher, as timely rainfall in late July and early August boosted yield prospects.

Global 2019/20 oilseed exports are reduced 3.0 million tons mainly on a 2-million-ton reduction to soybean trade. China's soybean imports are lowered 2 million tons to 85 million reflecting lower soybean meal crush in 2019/20. With crush also lowered in 2018/19, China's protein meal consumption growth is forecasted flat in 2019/20. Global 2019/20 soybean ending stocks are lower relative to last month due to lower stocks in the United States and China.

**SUGAR:** Beet sugar production for the August-July 2019/20 crop year is projected at 5.106 million short tons, raw value (STRV) on sugarbeet area and yield forecasts made by NASS in *Crop Production* and recent year averages for sucrose extraction and pile shrink. Most of the increase over last month is projected to occur in the early August-September harvest year period, resulting in an increase of 88,653 STRV to 5.008 million for the 2018/19 fiscal year. Beet sugar production for 2019/20 is increased to 5.179 million STRV. Florida cane sugar production for 2019/20 is increased by 44,603 STRV based on a strong NASS forecast of sugarcane yields that pushes the projected sugarcane crop up 2.4 percent over the prior year.

Imports for 2019/20 are increased by 24,302 STRV primarily on the USDA decision to extend the period of entry of the 2018/19 raw sugar TRQ to October 15. Deliveries for human consumption for 2018/19 are increased by 75,000 STRV to 12.200 million based on strength in direct consumption imports. Through June, however, deliveries by domestic processors have remained relatively flat for the past two years. Human consumption deliveries for 2019/20 are increased in line but only by 50,000 STRV in a changing sugar and sweeteners'

deliveries environment as evidenced by flat to declining total and per-capita caloric sweeteners and refined sugar for calendar years 2016-18. (See Tables 49 and 50 at the ERS Sugar and Sweeteners Yearbook.) Ending stocks for 2019/20 are projected at 1.699 million STRV for a stocks-to-use ratio of 13.74 percent. There are no significant changes from last month to sugar supply and use in Mexico for 2018/19 or for 2019/20.

**LIVESTOCK, POULTRY, AND DAIRY:** The forecast for total meat production in 2019 is raised from last month as increases in broiler and turkey production more than offset declines in beef and pork production. Broiler production is raised on June production data and the expectation of a continued higher proportion of heavier weight birds in the slaughter mix. Forecast turkey production is also raised on recent production data and higher expected slaughter in the fourth quarter. The decline in beef production largely reflects a slower pace of cattle slaughter in the third quarter and lighter expected carcass weights through 2019. The pork production forecast is reduced on a slower expected pace of slaughter during the third quarter.

For 2020, the red meat and poultry production forecast is raised on higher expected beef and poultry production forecasts. The beef production forecast is raised from the previous month on a higher expected pace of first-half marketings. However, the 2019 calf-crop estimated in the July 19<sup>th</sup> *Cattle* report implies lower-than-previously expected marketings in the latter part of 2020. Continued growth in average bird weights is expected to result in higher forecast broiler production in 2020. Turkey production is raised slightly. Forecast pork production is unchanged from the previous month.

For 2019, the beef import forecast is adjusted to reflect June trade data; the import forecast for 2020 is unchanged. Beef export forecasts are unchanged for both 2019 and 2020. The pork import forecasts for 2019 and 2020 are lowered on slowing import demand. The pork export forecast for 2019 is adjusted based on June trade data. No change is made to the 2020 pork export forecast. The 2019 broiler export forecast is reduced on recent trade data, but the 2020 forecast is unchanged. No changes are made to 2019 and 2020 turkey trade forecasts.

Fed cattle prices are raised for 2019 on current price strength. The 2020 price forecast is also raised. The 2019 hog price forecast is lowered on recent price pressure, but the 2020 price forecast is unchanged from last month. The broiler price forecast for 2019 and 2020 are lowered on larger forecast supplies. The turkey price forecast for 2019 is raised; no change is made to the 2020 turkey price forecast.

The milk production forecasts for 2019 and 2020 are reduced from last month on expectations of a smaller dairy herd and slower growth in milk per cow. For 2019, the fat basis import forecast is raised from last month on strong demand for imported butter, while the fat basis export forecast is reduced slightly. The skim-solid basis import forecast for 2019 is raised on higher imports of milk protein concentrates and other dairy products. The 2019 skim-solids basis export forecast is reduced primarily on weaker-than-expected sales of nonfat dry milk (NDM). For 2020, the fat basis import forecast is raised on continued strong import demand for butter, while the fat basis export forecast is reduced on slowing sales of butterfat. The skim-solids basis import forecast for 2020 is raised, but the export forecast is lowered on expected continued weak demand for NDM and increased global competition.

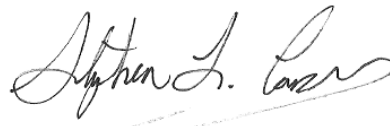
For 2019, cheese, butter, and whey price forecasts are raised. The NDM price forecast is reduced on current price weakness and slowing demand. For 2020, price forecasts for cheese, butter, and NDM are lowered from the previous month, but the whey price forecast is unchanged. The 2019 Class III price forecast is raised on higher forecast cheese and whey prices. The 2019 Class IV price forecasts is reduced from the previous month as the lower forecast NDM price more than offsets the higher butter price. For 2020, the Class III and Class IV product price forecasts are lower on weaker dairy product prices. The 2019 all milk price is forecast higher at \$18.30 per cwt, but the all milk price forecast for 2020 is forecast lower than the previous month at \$18.80 per cwt.

**COTTON:** This month's 2019/20 U.S. cotton outlook includes higher beginning stocks, production, exports, and ending stocks. Production for the 2019 crop is raised 2 percent to 22.5 million bales, on NASS's first survey-based production forecast. The survey indicates slightly higher area and yield compared with last month's expectations, resulting in the largest crop in 14 years. Beginning stocks are raised 250,000 bales due to lower-than-expected 2018/19 exports. Exports for 2019/20 are raised 200,000 bales this month, and ending stocks are raised 500,000 bales to 7.2 million. The 2019/20 season-average price for upland cotton is forecast at 60 cents per pound, down 3 cents from last month.

Lower projected world cotton consumption largely accounts for a 2.0-million-bale increase in 2019/20 global ending stocks from the July forecast. Beginning stocks are higher, largely due to a 500,000-bale decline in 2018/19 consumption. Production in 2019/20 is forecast 200,000 bales lower this month, but higher beginning stocks and a 1.2-million-bale decline in projected consumption are more than offsetting. Consumption is lower in China, India, and Uzbekistan.

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**In 2019, the WASDE report will be released on Sep 12, Oct 10, Nov 8, and Dec 10**

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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 - 591 - 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		2616.60	3413.89	415.07	2601.51	812.39
	2018/19 (Est.)		2625.43	3437.81	427.50	2636.02	801.79
	2019/20 (Proj.)	Jul	2664.79	3465.70	436.11	2678.54	787.16
		Aug	2664.78	3466.57	434.01	2670.19	796.39
Wheat	2017/18		761.87	1023.94	182.04	742.77	281.18
	2018/19 (Est.)		730.55	1011.72	174.16	736.23	275.49
	2019/20 (Proj.)	Jul	771.46	1046.61	183.11	760.15	286.46
		Aug	768.07	1043.56	182.63	758.16	285.40
Coarse Grains 5/	2017/18		1359.87	1745.48	185.91	1376.51	368.97
	2018/19 (Est.)		1396.26	1765.22	207.80	1410.22	355.00
	2019/20 (Proj.)	Jul	1395.51	1750.36	206.09	1422.32	328.05
		Aug	1398.85	1753.85	204.74	1417.53	336.33
Rice, milled	2017/18		494.86	644.48	47.13	482.23	162.25
	2018/19 (Est.)		498.62	660.87	45.55	489.57	171.30
	2019/20 (Proj.)	Jul	497.82	668.73	46.91	496.08	172.65
		Aug	497.86	669.16	46.64	494.50	174.66
<b>United States</b>							
Total Grains 4/	2017/18		437.43	541.29	94.57	357.95	88.76
	2018/19 (Est.)		438.33	534.37	84.07	355.61	94.69
	2019/20 (Proj.)	Jul	424.04	526.68	86.31	356.80	83.57
		Aug	427.35	530.33	84.45	357.43	88.44
Wheat	2017/18		47.38	83.81	24.66	29.25	29.91
	2018/19 (Est.)		51.29	84.87	25.48	30.22	29.18
	2019/20 (Proj.)	Jul	52.28	85.27	25.86	32.20	27.22
		Aug	53.89	86.74	26.54	32.60	27.60
Coarse Grains 5/	2017/18		384.39	449.48	67.16	324.41	57.92
	2018/19 (Est.)		379.92	440.53	55.64	320.98	63.91
	2019/20 (Proj.)	Jul	365.13	432.22	57.25	320.23	54.75
		Aug	366.93	434.53	54.71	320.48	59.34
Rice, milled	2017/18		5.66	8.00	2.76	4.30	0.93
	2018/19 (Est.)		7.12	8.97	2.95	4.41	1.61
	2019/20 (Proj.)	Jul	6.63	9.19	3.21	4.38	1.60
		Aug	6.52	9.06	3.21	4.35	1.50

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 - 591 - 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	2,179.17	2,872.61	320.50	2,243.55	723.63	
	2018/19 (Est.)	2,187.10	2,903.44	343.44	2,280.41	707.10	
	2019/20 (Proj.)	Jul	2,240.74	2,939.01	349.79	2,321.73	703.59
		Aug	2,237.44	2,936.25	349.56	2,312.75	707.95
Wheat	2017/18	714.49	940.13	157.38	713.52	251.27	
	2018/19 (Est.)	679.26	926.85	148.68	706.02	246.31	
	2019/20 (Proj.)	Jul	719.18	961.34	157.25	727.95	259.25
		Aug	714.18	956.82	156.10	725.56	257.80
Coarse Grains 5/	2017/18	975.48	1,296.00	118.75	1,052.10	311.05	
	2018/19 (Est.)	1,016.34	1,324.70	152.16	1,089.24	291.09	
	2019/20 (Proj.)	Jul	1,030.37	1,318.14	148.84	1,102.09	273.30
		Aug	1,031.92	1,319.32	150.03	1,097.05	276.99
Rice, milled	2017/18	489.20	636.48	44.36	477.93	161.31	
	2018/19 (Est.)	491.50	651.90	42.60	485.16	169.69	
	2019/20 (Proj.)	Jul	491.19	659.53	43.71	491.69	171.05
		Aug	491.34	660.10	43.43	490.15	173.16

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	204.09	40.95	122.68	81.03	
	2018/19 (Est.)	119.19	200.22	40.83	120.61	80.27	
	2019/20 (Proj.)	Jul	125.79	205.06	44.15	124.27	80.42
		Aug	125.61	205.88	43.85	123.07	82.45
United States	2017/18	20.92	23.68	15.85	3.23	4.30	
	2018/19 (Est.)	18.37	22.67	14.22	3.00	5.25	
	2019/20 (Proj.)	Jul	22.00	27.01	17.00	3.10	6.70
		Aug	22.52	27.77	17.20	3.10	7.20
Foreign 4/	2017/18	102.86	180.42	25.11	119.45	76.73	
	2018/19 (Est.)	100.83	177.55	26.61	117.61	75.02	
	2019/20 (Proj.)	Jul	103.79	178.06	27.15	121.17	73.72
		Aug	103.09	178.11	26.65	119.97	75.25

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 - 591 - 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		580.67	690.50	176.32	484.67	116.05
	2018/19 (Est.)		602.27	718.32	169.99	491.20	133.85
	2019/20 (Proj.)	Jul	586.04	716.64	174.96	502.36	119.54
		Aug	580.86	714.72	171.99	501.47	119.17
Oilmeals	2017/18		331.57	348.31	88.09	328.81	16.37
	2018/19 (Est.)		334.56	350.92	92.51	332.05	15.10
	2019/20 (Proj.)	Jul	342.72	357.94	94.13	340.32	14.90
		Aug	341.94	357.04	94.76	338.69	14.76
Vegetable Oils	2017/18		198.76	219.22	79.65	192.33	22.14
	2018/19 (Est.)		203.62	225.75	85.04	199.38	21.78
	2019/20 (Proj.)	Jul	208.25	229.91	87.50	204.43	20.84
		Aug	208.25	230.03	87.94	204.69	20.70
<b>United States</b>							
Oilseeds	2017/18		131.48	142.50	59.31	60.17	13.83
	2018/19 (Est.)		133.85	148.86	47.43	60.35	30.92
	2019/20 (Proj.)	Jul	115.95	147.63	52.26	62.25	23.21
		Aug	111.50	143.82	49.53	62.25	22.23
Oilmeals	2017/18		47.03	51.17	13.00	37.61	0.56
	2018/19 (Est.)		46.26	50.76	12.58	37.72	0.46
	2019/20 (Proj.)	Jul	47.66	51.96	12.64	38.90	0.42
		Aug	47.66	51.96	12.74	38.81	0.42
Vegetable Oils	2017/18		12.11	18.12	1.34	15.54	1.24
	2018/19 (Est.)		12.15	17.94	1.15	15.63	1.16
	2019/20 (Proj.)	Jul	12.56	18.57	1.02	16.46	1.09
		Aug	12.56	18.56	1.02	16.48	1.06
<b>Foreign 3/</b>							
Oilseeds	2017/18		449.18	548.00	117.00	424.50	102.22
	2018/19 (Est.)		468.42	569.46	122.56	430.85	102.93
	2019/20 (Proj.)	Jul	470.09	569.01	122.70	440.11	96.33
		Aug	469.37	570.90	122.45	439.22	96.94
Oilmeals	2017/18		284.54	297.14	75.09	291.21	15.80
	2018/19 (Est.)		288.30	300.16	79.93	294.32	14.64
	2019/20 (Proj.)	Jul	295.05	305.97	81.48	301.42	14.48
		Aug	294.28	305.08	82.02	299.88	14.34
Vegetable Oils	2017/18		186.65	201.10	78.31	176.79	20.90
	2018/19 (Est.)		191.47	207.81	83.89	183.76	20.62
	2019/20 (Proj.)	Jul	195.69	211.34	86.48	187.97	19.76
		Aug	195.69	211.47	86.92	188.22	19.64

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 - 591 - 11

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

	2017/18	2018/19 Est.	2019/20 Proj. Jul	2019/20 Proj. Aug
			<i>Million Acres</i>	
Area Planted	46.1	47.8	45.6	45.6
Area Harvested	37.6	39.6	38.4	38.4
			<i>Bushels</i>	
Yield per Harvested Acre	46.4	47.6	50.0	51.6
			<i>Million Bushels</i>	
Beginning Stocks	1,181	1,099	1,072	1,072
Production	1,741	1,884	1,921	1,980
Imports	158	135	140	135
Supply, Total	3,080	3,118	3,133	3,187
Food	964	955	965	960
Seed	63	60	68	68
Feed and Residual	47	96	150	170
Domestic, Total	1,075	1,110	1,183	1,198
Exports	906	936	950	975
Use, Total	1,981	2,046	2,133	2,173
Ending Stocks	1,099	1,072	1,000	1,014
Avg. Farm Price (\$/bu) 2/	4.72	5.16	5.20	5.00

## U.S. Wheat by Class: Supply and Use

Year beginning June 1		Hard Red Winter	Hard Red Spring	Soft Red Winter	White	Durum	Total
				<i>Million Bushels</i>			
2018/19 (Est.)	Beginning Stocks	581	191	205	87	35	1,099
	Production	662	587	286	272	77	1,884
	Supply, Total 3/	1,248	846	495	365	164	3,118
	Domestic Use	411	322	209	81	87	1,110
	Exports	331	259	128	196	22	936
	Use, Total	742	581	337	277	109	2,046
	Ending Stocks, Total	506	265	158	88	55	1,072
2019/20 (Proj.)	Beginning Stocks	506	265	158	88	55	1,072
	Production	840	566	257	260	57	1,980
	Supply, Total 3/	1,351	896	420	353	168	3,187
	Domestic Use	494	314	207	96	88	1,198
	Exports	405	260	95	190	25	975
	Use, Total	899	574	302	286	113	2,173
	Ending Stocks, Total						
		Aug					
		Jul					
		452	322	118	67	54	1,014
		426	323	125	66	60	1,000

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 - 591 - 13

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

<b>SORGHUM</b>	2017/18	2018/19 Est.	2019/20 Proj. Jul	2019/20 Proj. Aug
	<i>Million Bushels</i>			
Area Planted (mil. acres)	5.6	5.7	5.1 *	5.3
Area Harvested (mil. acres)	5.0	5.1	4.6 *	4.8
Yield (bushels/acre)	71.7	72.1	67.4 *	73.9
Beginning Stocks	33	35	60	60
Production	362	365	309	354
Imports	2	0	0	0
Supply, Total	397	400	369	414
Feed and Residual	102	155	125	160
Food, Seed & Industrial	60	100	100	100
Total Domestic	162	255	225	260
Exports	200	85	100	100
Use, Total	362	340	325	360
Ending Stocks	35	60	44	54
Avg. Farm Price (\$/bu) 2/	3.22	3.20	3.40	3.30
<b>BARLEY</b>				
Area Planted (mil. acres)	2.5	2.5	2.9 *	2.9
Area Harvested (mil. acres)	2.0	2.0	2.3 *	2.3
Yield (bushels/acre)	73.0	77.4	73.3 *	73.9
Beginning Stocks	106	94	87	87
Production	143	153	171	172
Imports	9	6	10	10
Supply, Total	259	253	267	269
Feed and Residual	2	7	20	20
Food, Seed & Industrial	157	155	153	153
Total Domestic	159	162	173	173
Exports	5	5	3	3
Use, Total	164	167	176	176
Ending Stocks	94	87	91	93
Avg. Farm Price (\$/bu) 2/	4.47	4.63	4.55	4.60
<b>OATS</b>				
Area Planted (mil. acres)	2.6	2.7	2.5 *	2.5
Area Harvested (mil. acres)	0.8	0.9	0.9 *	0.9
Yield (bushels/acre)	61.7	64.9	67.8 *	66.4
Beginning Stocks	50	41	37	37
Production	50	56	62	60
Imports	89	87	110	110
Supply, Total	189	184	209	207
Feed and Residual	68	68	90	90
Food, Seed & Industrial	77	77	78	78
Total Domestic	146	145	168	168
Exports	2	2	2	2
Use, Total	148	147	170	170
Ending Stocks	41	37	39	37
Avg. Farm Price (\$/bu) 2/	2.59	2.68	2.90	2.90

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. \* For July sorghum planted and harvested acres reported in the June 28, 2019, "Acreage." The yield is the median yield for 1989-2018. Barley and oats area planted, area harvested, yield, and production as reported in the July 11, 2019, "Crop Production."

## WASDE - 591 - 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.	2019/20 Proj.	
			Jul	Aug	
		<i>Million Acres</i>			
Area Planted	2.46	2.95	2.76 *	2.76	
Area Harvested	2.37	2.92	2.71 *	2.71	
		<i>Pounds</i>			
Yield per Harvested Acre	7,507	7,692	7,698 *	7,577	
		<i>Million Hundredweight</i>			
Beginning Stocks 2/	46.0	29.4	51.6	50.6	
Production	178.2	224.2	208.7	205.4	
Imports	27.5	29.0	29.2	29.2	
Supply, Total	251.8	282.6	289.5	285.2	
Domestic & Residual 3/	135.4	139.0	138.0	137.0	
Exports, Total 4/	87.1	93.0	101.0	101.0	
Rough	28.8	33.5	38.0	38.0	
Milled (rough equiv.)	58.2	59.5	63.0	63.0	
Use, Total	222.4	232.0	239.0	238.0	
Ending Stocks	29.4	50.6	50.5	47.2	
Avg. Milling Yield (%) 5/	70.00	70.00	70.00	70.00	
Avg. Farm Price (\$/cwt) 6/	12.90	12.10	11.80	12.20	

**LONG-GRAIN RICE**

Harvested Acres (mil.)	1.75	2.18		
Yield (pounds/acre)	7,314	7,517		
Beginning Stocks	31.0	20.3	33.6	33.6
Production	127.9	164.0	152.1	149.1
Supply, Total 7/	182.2	207.6	209.2	206.2
Domestic & Residual 3/	98.6	108.0	106.0	105.0
Exports 8/	63.2	66.0	72.0	72.0
Use, Total	161.9	174.0	178.0	177.0
Ending Stocks	20.3	33.6	31.2	29.2
Avg. Farm Price (\$/cwt) 6/	11.50	10.80	10.50	11.00

**MEDIUM & SHORT-GRAIN RICE**

Harvested Acres (mil.)	0.63	0.73		
Yield (pounds/acre)	8,048	8,209		
Beginning Stocks	11.5	7.6	16.6	15.6
Production	50.4	60.3	56.6	56.3
Supply, Total 7/	68.2	73.6	78.9	77.6
Domestic & Residual 3/	36.7	31.0	32.0	32.0
Exports 8/	23.8	27.0	29.0	29.0
Use, Total	60.6	58.0	61.0	61.0
Ending Stocks	7.6	15.6	17.9	16.6
Avg. Farm Price (\$/cwt) 1/ 6/ 9/	17.00	16.30	15.80	15.90
California 10/	20.10	18.00	18.00	18.00
Other States 1/	11.70	12.20	11.00	11.50

Note: Totals may not add due to rounding. 1/ Marketing year beginning August 1. 2/ Includes the following quantities of broken kernel rice (type undetermined) not included in estimates of ending stocks by type (in mil. cwt): 2015/16-2.9; 2016/17-3.5; 2017/18-3.5. 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 broken 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. \* For July-- Planted and harvested area reported in June 28, 2019 "Acreage" report. Projected yield is based on by-class trend analysis and prospective planting.

## WASDE - 591 - 15

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

SOYBEANS	2017/18	2018/19 Est.	2019/20 Proj. Jul	2019/20 Proj. Aug
		<i>Million Acres</i>		
Area Planted	90.2	89.2	80.0 *	76.7
Area Harvested	89.5	88.1	79.3 *	75.9
		<i>Bushels</i>		
Yield per Harvested Acre	49.3	51.6	48.5 *	48.5
		<i>Million Bushels</i>		
Beginning Stocks	302	438	1,050	1,070
Production	4,412	4,544	3,845	3,680
Imports	22	17	20	20
Supply, Total	4,735	4,999	4,915	4,771
Crushings	2,055	2,065	2,115	2,115
Exports	2,134	1,700	1,875	1,775
Seed	104	89	96	96
Residual	5	75	34	30
Use, Total	4,297	3,929	4,120	4,016
Ending Stocks	438	1,070	795	755
Avg. Farm Price (\$/bu) 2/	9.33	8.50	8.40	8.40
<b>SOYBEAN OIL</b>				
		<i>Million Pounds</i>		
Beginning Stocks	1,711	1,995	1,875	1,740
Production 4/	23,772	23,995	24,535	24,535
Imports	335	400	450	450
Supply, Total	25,819	26,390	26,860	26,725
Domestic Disappearance	21,380	22,600	23,600	23,500
Biodiesel 3/	7,134	8,100	8,700	8,600
Food, Feed & other Industrial	14,247	14,500	14,900	14,900
Exports	2,443	2,050	1,725	1,725
Use, Total	23,823	24,650	25,325	25,225
Ending stocks	1,995	1,740	1,535	1,500
Avg. Price (c/lb) 2/	30.04	28.00	29.50	29.50
<b>SOYBEAN MEAL</b>				
		<i>Thousand Short Tons</i>		
Beginning Stocks	401	555	450	450
Production 4/	49,226	48,420	49,650	49,650
Imports	483	725	500	500
Supply, Total	50,109	49,700	50,600	50,600
Domestic Disappearance	35,537	35,700	36,600	36,500
Exports	14,016	13,550	13,600	13,700
Use, Total	49,554	49,250	50,200	50,200
Ending Stocks	555	450	400	400
Avg. Price (\$/s.t.) 2/	345.02	310.00	300.00	300.00

Note: Totals may not add due to rounding. Reliability calculations at end of report. 1/ Marketing year beginning September 1 for soybeans; October 1 for soybean oil and soybean meal. 2/ Prices: soybeans, marketing year weighted average price received by farmers; oil, simple average of crude soybean oil, Decatur; meal, simple average of 48 percent protein, Decatur. 3/ Reflects only biodiesel made from methyl ester as reported by the U.S. Energy Information Administration. 4/ Based on an October year crush of 2,065 million bushels for 2018/19 and 2,115 million bushels for 2019/20. \*Planted and harvested acres are from the June 28, 2019 Acreage report. The yield is based on a weather-adjusted trend model.

## WASDE - 591 - 16

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

	2017/18	2018/19 Est.	2019/20 Proj. Jul	2019/20 Proj. Aug
	<i>1,000 Short Tons, Raw Value</i>			
Beginning Stocks	1,876	2,008	1,761	1,775
Production 2/	9,293	9,036	9,260	9,308
Beet Sugar	5,279	5,008	5,175	5,179
Cane Sugar	4,014	4,028	4,085	4,129
Florida	1,983	2,005	2,051	2,096
Hawaii	0	0	0	0
Louisiana	1,862	1,875	1,900	1,900
Texas	169	147	134	134
Imports	3,277	3,091	2,957	2,981
TRQ 3/	1,663	1,604	1,568	1,593
Other Program 4/	326	400	350	350
Other 5/	1,287	1,087	1,039	1,039
Mexico	1,223	997	969	969
Total Supply	14,445	14,135	13,978	14,064
Exports	170	35	35	35
Deliveries	12,185	12,325	12,280	12,330
Food	12,048	12,200	12,175	12,225
Other 6/	137	125	105	105
Miscellaneous	82	0	0	0
Total Use	12,438	12,360	12,315	12,365
Ending Stocks	2,008	1,775	1,663	1,699
Stocks to Use Ratio	16.1	14.4	13.5	13.7

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 processor projections where appropriate. 3/ For 2018/19, WTO raw sugar TRQ shortfall (28) 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 (90) and 2019/20 (70). 6/ Transfers accompanying deliveries for sugar-containing products to be exported (SCP) and polyhydric alcohol manufacture (POLY), and deliveries for livestock feed and ethanol. Total refiner license transfers for SCP and POLY inclusive of WASDE-reported deliveries: 2017/18 -- 278; estimated 2018/19 -- 324; projected 2019/20 -- 340.

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

		Beginning Stocks	Production	Imports	Domestic 2/	Exports	Ending Stocks	
		<i>1,000 Metric Tons, Actual Weight</i>						
Sugar	2018/19 Est.	Jul	1,395	6,425	70	4,716	2,179	995
		Aug	1,395	6,426	70	4,716	2,179	995
	2019/20 Proj.	Jul	995	6,248	70	4,776	1,542	995
		Aug	995	6,248	70	4,776	1,542	995

1/ HFCS consumption by Mexico (1,000 metric tons, dry basis): 2017/18 = 1,593; Estimated Oct-June 2018 = 1,182; Projected 2018/19 = 1,520; Estimated Oct-June 2019 = 1,143; Projected 2019/20 = 1,520. Footnote source for estimate: Comité Nacional para el Desarrollo Sustentable de la Cana de Azúcar. 2/Includes deliveries for consumption, Mexico's products export program (IMMEX), and Other Deliveries/Ending Year Statistical Adjustments. IMMEX: 2018/19 (480 est); 2019/20 (480 proj). Other Deliveries/Ending Year Statistical Adjustments: 2018/19 (0), 2019/20 (0).



## WASDE - 591 - 17

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

	2017/18	2018/19 Est.	2019/20 Proj. Jul	2019/20 Proj. Aug
Area				
			<i>Million Acres</i>	
Planted	12.72	14.10	13.72 **	13.90
Harvested	11.10	10.21	12.49 **	12.64
			<i>Pounds</i>	
Yield per Harvested Acre	905	864	845 **	855
			<i>Million 480 Pound Bales</i>	
Beginning Stocks	2.75	4.30	5.00	5.25
Production	20.92	18.37	22.00	22.52
Imports	0.00	0.01	0.01	0.01
Supply, Total	23.68	22.67	27.01	27.77
Domestic Use	3.23	3.00	3.10	3.10
Exports, Total	15.85	14.22	17.00	17.20
Use, Total	19.07	17.22	20.10	20.30
Unaccounted 2/	0.30	0.21	0.21	0.27
Ending Stocks	4.30	5.25	6.70	7.20
Avg. Farm Price 3/	68.6	70.0	63.0	60.0

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. \*\*For July, planted area as reported in the June 28, 2019 Acreage. Harvested area based on 10-year average abandonment by region, with the Southwest adjusted to reflect favorable moisture conditions. Yield based on 5-year average yields by region.

## WASDE - 591 - 18

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

2017/18	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	262.08	761.87	179.79	146.47	742.77	182.04	281.18
World Less China	147.15	627.53	175.86	128.97	621.77	181.04	149.98
United States	32.13	47.38	4.30	1.29	29.25	24.66	29.91
Total Foreign	229.94	714.49	175.49	145.19	713.52	157.38	251.27
Major Exporters 4/	36.16	332.70	6.96	89.87	205.54	130.95	39.33
Argentina	0.25	18.50	0.00	0.05	5.45	12.66	0.64
Australia	5.73	20.94	0.16	4.00	7.48	13.85	5.51
Canada	6.86	29.98	0.45	4.52	9.42	21.95	5.92
European Union 5/	10.72	151.13	5.82	58.00	130.40	23.29	13.98
Russia	10.83	85.17	0.47	20.00	43.00	41.42	12.04
Ukraine	1.77	26.98	0.06	3.30	9.80	17.78	1.24
Major Importers 6/	160.49	202.93	115.29	37.46	290.11	12.24	176.36
Bangladesh	1.88	1.15	6.15	0.00	7.50	0.00	1.69
Brazil	2.26	4.26	7.02	0.50	12.00	0.23	1.31
China	114.93	134.33	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/	14.15	19.25	27.45	2.25	45.23	0.83	14.79
Nigeria	0.20	0.07	5.09	0.05	4.75	0.40	0.20
Sel. Mideast 8/	16.67	18.36	18.27	4.11	37.91	0.83	14.56
Southeast Asia 9/	5.59	0.00	25.94	8.99	25.44	1.04	5.05
Selected Other							
India	9.80	98.51	1.17	5.00	95.68	0.57	13.23
Kazakhstan	3.36	14.80	0.10	2.10	6.90	9.00	2.37
<b>2018/19 Est.</b>							
World 3/	281.18	730.55	172.63	140.05	736.23	174.16	275.49
World Less China	149.98	599.12	169.48	120.05	611.23	173.15	135.72
United States	29.91	51.29	3.67	2.62	30.22	25.48	29.18
Total Foreign	251.27	679.26	168.96	137.44	706.02	148.68	246.31
Major Exporters 4/	39.33	302.20	7.09	82.35	196.45	122.00	30.17
Argentina	0.64	19.50	0.01	0.05	5.75	13.00	1.39
Australia	5.51	17.30	0.36	5.70	9.20	9.00	4.97
Canada	5.92	31.80	0.45	4.10	9.00	24.50	4.67
European Union 5/	13.98	136.86	5.70	52.00	123.20	23.60	9.74
Russia	12.04	71.69	0.46	18.00	40.50	35.70	7.99
Ukraine	1.24	25.06	0.11	2.50	8.80	16.20	1.41
Major Importers 6/	176.36	199.70	111.97	38.38	294.16	11.83	182.04
Bangladesh	1.69	1.00	5.00	0.00	7.00	0.00	0.69
Brazil	1.31	5.43	7.30	0.50	12.10	0.60	1.34
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/	14.79	21.00	27.11	2.25	46.18	0.71	16.01
Nigeria	0.20	0.06	4.80	0.05	4.46	0.40	0.20
Sel. Mideast 8/	14.56	17.88	17.17	3.56	37.90	0.55	11.16
Southeast Asia 9/	5.05	0.00	26.59	8.34	25.64	1.09	4.92
Selected Other							
India	13.23	99.87	0.02	5.00	95.63	0.50	16.99
Kazakhstan	2.37	13.95	0.09	1.80	6.60	8.50	1.30

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, 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 - 591 - 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/	Jul	275.15	771.46	178.91	151.17	760.15	183.11	286.46
	Aug	275.49	768.07	179.00	150.32	758.16	182.63	285.40
World Less China	Jul	135.45	639.46	175.41	130.17	632.15	181.81	140.57
	Aug	135.72	636.07	175.50	129.32	630.16	181.33	139.43
United States	Jul	29.18	52.28	3.81	4.08	32.20	25.86	27.22
	Aug	29.18	53.89	3.67	4.63	32.60	26.54	27.60
Total Foreign	Jul	245.97	719.18	175.10	147.09	727.95	157.25	259.25
	Aug	246.31	714.18	175.33	145.69	725.56	156.10	257.80
Major Exporters 4/	Jul	29.91	328.80	6.69	87.55	202.05	131.00	32.34
	Aug	30.17	327.00	6.66	86.45	200.85	131.00	31.98
Argentina	Jul	1.39	20.00	0.01	0.05	5.95	14.00	1.45
	Aug	1.39	20.50	0.01	0.05	5.85	14.50	1.55
Australia	Jul	4.91	21.00	0.15	5.00	8.50	12.50	5.06
	Aug	4.97	21.00	0.15	5.00	8.50	12.50	5.12
Canada	Jul	4.67	33.30	0.45	4.30	9.30	24.00	5.12
	Aug	4.67	33.30	0.45	4.30	9.30	24.00	5.12
European Union 5/	Jul	9.81	151.30	5.50	56.50	128.00	27.00	11.61
	Aug	9.74	150.00	5.50	56.00	127.50	26.50	11.24
Russia	Jul	7.73	74.20	0.50	18.00	40.50	34.50	7.43
	Aug	7.99	73.00	0.48	17.50	40.00	34.00	7.46
Ukraine	Jul	1.40	29.00	0.08	3.70	9.80	19.00	1.67
	Aug	1.41	29.20	0.08	3.60	9.70	19.50	1.48
Major Importers 6/	Jul	181.86	204.97	116.12	40.26	300.86	12.85	189.23
	Aug	182.04	202.97	116.72	39.96	300.71	12.85	188.16
Bangladesh	Jul	0.69	1.10	6.50	0.00	7.30	0.00	0.99
	Aug	0.69	1.10	6.50	0.00	7.30	0.00	0.99
Brazil	Jul	1.34	5.30	7.50	0.50	12.20	0.60	1.34
	Aug	1.34	5.30	7.50	0.50	12.20	0.60	1.34
China	Jul	139.69	132.00	3.50	21.00	128.00	1.30	145.89
	Aug	139.77	132.00	3.50	21.00	128.00	1.30	145.97
Japan	Jul	1.06	0.95	5.90	0.70	6.50	0.28	1.13
	Aug	0.97	0.95	5.90	0.70	6.50	0.28	1.04
N. Africa 7/	Jul	16.11	18.87	27.40	2.25	46.65	0.69	15.04
	Aug	16.01	18.87	27.40	2.25	46.75	0.69	14.84
Nigeria	Jul	0.20	0.06	5.20	0.05	4.86	0.40	0.20
	Aug	0.20	0.06	5.10	0.05	4.76	0.40	0.20
Sel. Mideast 8/	Jul	11.11	22.46	17.32	3.92	38.99	0.72	11.18
	Aug	11.16	22.46	17.32	3.92	39.04	0.72	11.18
Southeast Asia 9/	Jul	4.78	0.00	27.70	8.74	26.42	1.07	5.00
	Aug	4.92	0.00	27.90	8.64	26.52	1.07	5.24
Selected Other								
India	Jul	16.99	101.20	0.02	6.00	98.00	0.50	19.71
	Aug	16.99	101.20	0.02	6.00	98.00	0.50	19.71
Kazakhstan	Jul	1.29	14.00	0.06	1.80	6.60	7.50	1.25
	Aug	1.30	13.00	0.06	1.80	6.60	6.50	1.26

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 - 591 - 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/	385.61	1,359.87	187.72	837.02	1,376.51	185.91	368.97
World Less China	161.26	1,093.05	171.29	637.77	1,092.36	185.85	145.59
United States	62.17	384.39	2.93	138.73	324.41	67.16	57.92
Total Foreign	323.44	975.48	184.79	698.29	1,052.11	118.75	311.05
Major Exporters 4/	38.41	252.15	3.69	126.38	170.30	98.30	25.65
Argentina	6.70	39.32	0.01	11.93	17.46	24.50	4.06
Australia	2.65	12.19	0.00	3.94	5.81	6.80	2.23
Brazil	14.49	85.06	1.46	57.70	68.18	25.13	7.71
Canada	5.56	26.24	1.77	15.92	23.23	5.78	4.57
Russia	2.06	41.72	0.13	21.57	31.02	11.52	1.37
Ukraine	3.01	34.07	0.05	8.44	11.82	22.50	2.81
Major Importers 5/	38.21	245.00	133.72	283.60	367.82	10.02	39.09
European Union 6/	15.11	152.12	19.40	120.85	162.37	7.92	16.35
Japan	1.69	0.19	17.58	13.75	17.75	0.00	1.71
Mexico	6.00	33.19	16.36	29.20	48.41	0.96	6.18
N. Afr & Mideast 7/	7.13	29.07	39.14	59.33	67.45	0.13	7.77
Saudi Arabia	2.54	0.26	11.99	12.28	12.70	0.00	2.08
Southeast Asia 8/	3.29	29.89	14.54	36.17	44.39	1.01	2.33
South Korea	1.77	0.20	10.19	7.80	10.31	0.00	1.86
Selected Other							
China	224.34	266.82	16.43	199.25	284.15	0.06	223.38
<b>2018/19 Est.</b>							
World 3/	368.97	1,396.26	194.60	845.74	1,410.22	207.80	355.00
World Less China	145.59	1,130.85	182.72	649.59	1,122.05	207.73	142.58
United States	57.92	379.92	2.69	139.48	320.98	55.64	63.91
Total Foreign	311.05	1,016.34	191.91	706.26	1,089.24	152.16	291.09
Major Exporters 4/	25.65	292.29	5.44	124.95	169.43	130.35	23.59
Argentina	4.06	59.18	0.01	12.55	18.51	39.36	5.39
Australia	2.23	10.93	0.00	3.93	6.00	5.02	2.15
Brazil	7.71	104.31	1.70	58.95	69.98	37.05	6.68
Canada	4.57	26.24	2.46	16.34	23.60	6.30	3.37
Russia	1.37	35.00	0.10	18.70	27.27	8.20	1.00
Ukraine	2.81	44.50	0.06	7.91	11.21	33.43	2.73
Major Importers 5/	39.09	241.94	142.85	294.38	379.18	10.08	34.62
European Union 6/	16.35	147.90	24.77	125.60	167.57	8.36	13.09
Japan	1.71	0.18	17.57	13.72	17.81	0.00	1.64
Mexico	6.18	32.50	17.66	31.07	50.31	0.80	5.24
N. Afr & Mideast 7/	7.77	31.11	39.68	62.55	70.68	0.12	7.76
Saudi Arabia	2.08	0.29	11.31	11.35	11.83	0.00	1.85
Southeast Asia 8/	2.33	29.69	17.12	37.59	45.71	0.81	2.62
South Korea	1.86	0.20	10.54	8.16	10.72	0.00	1.89
Selected Other							
China	223.38	265.41	11.88	196.15	288.17	0.07	212.42

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

## WASDE - 591 - 21

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

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Jul	354.86	1,395.51	202.00	857.28	1,422.32	206.09	328.05
	Aug	355.00	1,398.85	203.00	856.18	1,417.53	204.74	336.33
World Less China	Jul	144.43	1,133.03	186.95	660.18	1,126.87	206.03	135.61
	Aug	142.58	1,136.37	187.95	661.08	1,124.08	204.68	139.89
United States	Jul	63.40	365.13	3.69	136.84	320.23	57.25	54.75
	Aug	63.91	366.93	3.69	137.73	320.48	54.71	59.34
Total Foreign	Jul	291.45	1,030.37	198.31	720.44	1,102.09	148.84	273.30
	Aug	291.09	1,031.92	199.31	718.45	1,097.05	150.03	276.99
Major Exporters 4/	Jul	25.36	300.57	2.93	128.88	175.42	127.13	26.32
	Aug	23.59	303.07	3.03	128.11	174.27	129.28	26.15
Argentina	Jul	5.67	57.26	0.01	13.18	19.64	36.31	6.99
	Aug	5.39	58.06	0.01	13.28	19.94	36.61	6.91
Australia	Jul	2.15	12.70	0.00	4.45	6.52	6.17	2.17
	Aug	2.15	12.70	0.00	4.45	6.52	6.17	2.17
Brazil	Jul	8.12	104.46	1.60	61.07	73.55	34.01	6.62
	Aug	6.68	104.48	1.70	60.07	72.15	34.01	6.70
Canada	Jul	3.42	29.21	1.03	16.10	23.36	6.16	4.14
	Aug	3.37	29.21	1.03	16.10	23.36	6.16	4.09
Russia	Jul	1.00	38.80	0.09	19.20	27.95	10.59	1.35
	Aug	1.00	37.88	0.09	19.23	27.68	10.29	1.00
Ukraine	Jul	2.73	43.55	0.03	8.21	11.43	32.39	2.50
	Aug	2.73	46.15	0.03	8.31	11.66	34.54	2.72
Major Importers 5/	Jul	34.77	255.22	145.30	301.06	386.88	11.13	37.28
	Aug	34.62	254.63	146.30	302.31	388.18	10.28	37.09
European Union 6/	Jul	12.72	156.53	21.01	124.80	167.32	8.36	14.58
	Aug	13.09	156.99	21.91	126.40	168.97	7.86	15.16
Japan	Jul	1.64	0.18	17.37	13.52	17.61	0.00	1.58
	Aug	1.64	0.18	17.37	13.52	17.61	0.00	1.58
Mexico	Jul	5.24	33.10	19.01	32.41	51.99	1.50	3.86
	Aug	5.24	33.10	19.01	32.41	51.99	1.50	3.86
N. Afr & Mideast 7/	Jul	8.14	33.12	42.32	65.33	73.56	0.29	9.72
	Aug	7.76	32.87	42.42	65.18	73.41	0.19	9.44
Saudi Arabia	Jul	1.75	0.25	14.01	13.55	14.00	0.00	2.02
	Aug	1.85	0.25	13.51	13.25	13.70	0.00	1.92
Southeast Asia 8/	Jul	2.87	31.76	16.76	38.86	47.01	0.99	3.40
	Aug	2.62	30.96	17.26	38.96	47.11	0.74	3.00
South Korea	Jul	1.88	0.20	10.63	8.26	10.85	0.00	1.85
	Aug	1.89	0.20	10.63	8.26	10.85	0.00	1.86
Selected Other								
China	Jul	210.42	262.48	15.05	197.10	295.45	0.06	192.44
	Aug	212.42	262.48	15.05	195.10	293.45	0.06	196.44

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

## WASDE - 591 - 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/	351.35	1,077.98	149.97	672.95	1,089.96	148.74	339.37
World Less China	128.34	818.91	146.51	485.95	826.96	148.72	116.85
United States	58.25	371.10	0.92	134.74	313.98	61.92	54.37
Total Foreign	293.10	706.88	149.05	538.21	775.98	86.83	285.01
Major Exporters 4/	25.32	164.42	1.18	82.63	103.63	72.76	14.53
Argentina	5.27	32.00	0.01	8.50	12.40	22.00	2.88
Brazil	14.02	82.00	0.92	55.00	64.50	25.12	7.31
Russia	0.78	13.20	0.05	7.40	8.30	5.53	0.20
South Africa	3.70	13.10	0.17	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	125.98	88.35	154.70	208.85	3.72	23.70
Egypt	1.89	6.40	9.46	13.40	15.90	0.01	1.84
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	29.84	14.20	36.10	44.00	1.00	2.32
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/	339.37	1,123.02	163.23	696.40	1,133.82	176.22	328.58
World Less China	116.85	865.69	158.23	506.40	860.82	176.20	116.74
United States	54.37	366.29	0.76	133.99	308.12	53.34	59.96
Total Foreign	285.01	756.74	162.47	562.41	825.70	122.87	268.62
Major Exporters 4/	14.53	210.72	2.10	84.50	106.60	106.50	14.24
Argentina	2.88	51.00	0.01	9.70	13.80	36.00	4.09
Brazil	7.31	101.00	1.00	56.00	66.00	37.00	6.31
Russia	0.20	11.42	0.05	7.50	8.40	3.00	0.26
South Africa	2.67	11.50	1.00	6.50	12.20	1.00	1.97
Ukraine	1.47	35.81	0.04	4.80	6.20	29.50	1.61
Major Importers 5/	23.70	127.51	97.15	168.40	223.00	4.91	20.45
Egypt	1.84	6.80	9.70	13.70	16.20	0.01	2.13
European Union 6/	9.84	64.22	23.50	67.00	87.00	3.30	7.25
Japan	1.39	0.00	15.80	12.10	15.80	0.00	1.40
Mexico	5.65	26.70	17.00	25.70	43.90	0.80	4.65
Southeast Asia 7/	2.32	29.64	16.65	37.50	45.20	0.80	2.61
South Korea	1.85	0.08	10.40	8.10	10.45	0.00	1.88
Selected Other							0.00
Canada	2.42	13.90	2.40	9.30	14.50	2.10	2.12
China	222.53	257.33	5.00	190.00	273.00	0.02	211.84

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

## WASDE - 591 - 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/	Jul	328.75	1,105.14	167.83	696.49	1,134.97	170.84	298.92
	Aug	328.58	1,108.24	169.34	694.44	1,129.09	169.90	307.72
World Less China	Jul	118.92	851.14	160.83	506.49	855.97	170.82	107.10
	Aug	116.74	854.24	162.34	506.44	852.09	169.88	111.91
United States	Jul	59.45	352.44	1.27	131.45	307.48	54.61	51.07
	Aug	59.96	353.09	1.27	131.45	306.85	52.07	55.40
Total Foreign	Jul	269.30	752.70	166.56	565.04	827.49	116.23	247.85
	Aug	268.62	755.15	168.07	562.99	822.25	117.83	252.32
Major Exporters 4/	Jul	16.24	212.50	1.17	87.50	111.70	102.00	16.21
	Aug	14.24	214.50	1.17	86.50	110.20	103.70	16.01
Argentina	Jul	4.58	50.00	0.01	10.30	15.00	33.50	6.09
	Aug	4.09	50.00	0.01	10.30	15.00	33.50	5.59
Brazil	Jul	7.81	101.00	1.00	58.00	69.50	34.00	6.31
	Aug	6.31	101.00	1.00	57.00	68.00	34.00	6.31
Russia	Jul	0.26	13.50	0.04	7.60	8.50	5.00	0.30
	Aug	0.26	13.00	0.04	7.50	8.40	4.70	0.20
South Africa	Jul	1.97	14.00	0.10	6.60	12.30	1.50	2.27
	Aug	1.97	14.00	0.10	6.60	12.30	1.50	2.27
Ukraine	Jul	1.61	34.00	0.02	5.00	6.40	28.00	1.23
	Aug	1.61	36.50	0.02	5.10	6.50	30.00	1.63
Major Importers 5/	Jul	20.68	130.27	95.10	165.60	221.15	4.49	20.41
	Aug	20.45	130.07	96.60	166.70	222.25	4.24	20.63
Egypt	Jul	2.13	7.20	10.00	14.40	16.90	0.01	2.42
	Aug	2.13	7.20	10.00	14.40	16.90	0.01	2.42
European Union 6/	Jul	7.24	64.20	20.00	61.00	81.50	2.00	7.94
	Aug	7.25	64.80	21.00	62.00	82.50	2.00	8.55
Japan	Jul	1.40	0.00	15.60	11.90	15.60	0.00	1.40
	Aug	1.40	0.00	15.60	11.90	15.60	0.00	1.40
Mexico	Jul	4.65	27.00	18.50	27.00	45.50	1.50	3.15
	Aug	4.65	27.00	18.50	27.00	45.50	1.50	3.15
Southeast Asia 7/	Jul	2.86	31.71	16.40	38.80	46.60	0.98	3.39
	Aug	2.61	30.91	16.90	38.90	46.70	0.73	2.99
South Korea	Jul	1.86	0.08	10.50	8.20	10.60	0.00	1.84
	Aug	1.88	0.08	10.50	8.20	10.60	0.00	1.85
Selected Other								
Canada	Jul	2.02	14.00	1.00	8.50	13.70	1.50	1.82
	Aug	2.12	14.00	1.00	8.50	13.70	1.50	1.92
China	Jul	209.84	254.00	7.00	190.00	279.00	0.02	191.82
	Aug	211.84	254.00	7.00	188.00	277.00	0.02	195.82

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

## WASDE - 591 - 24

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

<b>2017/18</b>	Beginning Stocks	Production	Imports	Total /2 Domestic	Exports	Ending Stocks
World 3/	149.62	494.86	46.73	482.23	47.13	162.25
World Less China	51.12	345.99	41.23	339.74	45.74	53.25
United States	1.46	5.66	0.87	4.30	2.76	0.93
Total Foreign	148.16	489.20	45.86	477.93	44.36	161.31
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/	108.57	241.03	21.35	248.06	1.82	121.06
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	1.74	4.66	2.00	6.90	0.00	1.50
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	0.53	8.20	0.56	7.75	1.15	0.39
C. Amer & Carib 8/	0.68	1.64	1.66	3.27	0.04	0.68
Egypt	1.43	4.30	0.09	4.20	0.05	1.56
Japan	2.41	7.79	0.69	8.60	0.06	2.23
Mexico	0.17	0.18	0.81	0.92	0.10	0.15
South Korea	2.00	3.97	0.40	4.75	0.06	1.56

**2018/19 Est.**

World 3/	162.25	498.62	44.25	489.57	45.55	171.30
World Less China	53.25	350.13	41.00	346.60	42.78	56.30
United States	0.93	7.12	0.92	4.41	2.95	1.61
Total Foreign	161.31	491.50	43.33	485.16	42.60	169.69
Major Exporters 4/	28.88	184.68	0.66	147.41	34.00	32.81
Burma	0.81	13.18	0.01	10.33	2.80	0.87
India	22.60	115.63	0.00	101.13	11.60	25.50
Pakistan	1.42	7.40	0.00	3.45	4.10	1.27
Thailand	3.01	20.55	0.25	11.00	9.00	3.81
Vietnam	1.03	27.92	0.40	21.50	6.50	1.36
Major Importers 5/	121.06	242.04	17.15	250.07	3.20	126.99
China	109.00	148.49	3.25	142.97	2.77	115.00
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	1.50	4.79	2.10	7.10	0.00	1.29
Philippines	2.29	11.80	3.50	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	0.39	7.31	0.83	7.60	0.65	0.28
C. Amer & Carib 8/	0.68	1.69	1.76	3.42	0.04	0.67
Egypt	1.56	2.80	0.80	4.05	0.02	1.09
Japan	2.23	7.65	0.69	8.56	0.06	1.95
Mexico	0.15	0.19	0.78	0.92	0.04	0.17
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 - 591 - 25

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

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Total /2 Domestic	Exports	Ending Stocks
World 3/	Jul	170.91	497.82	44.16	496.08	46.91	172.65
	Aug	171.30	497.86	43.89	494.50	46.64	174.66
World Less China	Jul	56.41	351.82	40.76	351.48	43.61	56.65
	Aug	56.30	351.86	40.59	351.50	43.34	56.66
United States	Jul	1.64	6.63	0.93	4.38	3.21	1.60
	Aug	1.61	6.52	0.93	4.35	3.21	1.50
Total Foreign	Jul	169.27	491.19	43.23	491.69	43.71	171.05
	Aug	169.69	491.34	42.97	490.15	43.43	173.16
Major Exporters 4/	Jul	32.40	184.70	0.66	149.05	34.80	33.91
	Aug	32.81	184.60	0.66	149.05	34.60	34.42
Burma	Jul	0.87	13.30	0.01	10.50	2.60	1.08
	Aug	0.87	13.30	0.01	10.50	2.60	1.08
India	Jul	25.50	115.00	0.00	102.00	12.00	26.50
	Aug	25.50	115.00	0.00	102.00	12.00	26.50
Pakistan	Jul	1.27	7.50	0.00	3.55	4.00	1.22
	Aug	1.27	7.50	0.00	3.55	4.00	1.22
Thailand	Jul	3.61	20.90	0.25	11.00	9.70	4.06
	Aug	3.81	20.50	0.25	11.00	9.50	4.06
Vietnam	Jul	1.15	28.00	0.40	22.00	6.50	1.05
	Aug	1.36	28.30	0.40	22.00	6.50	1.56
Major Importers 5/	Jul	126.93	241.28	16.38	252.86	3.71	128.02
	Aug	126.99	241.50	16.13	251.31	3.71	129.60
China	Jul	114.50	146.00	3.40	144.60	3.30	116.00
	Aug	115.00	146.00	3.30	143.00	3.30	118.00
European Union 6/	Jul	1.10	2.04	2.00	3.75	0.30	1.09
	Aug	1.13	2.01	2.05	3.80	0.30	1.09
Indonesia	Jul	3.66	37.40	0.50	38.00	0.00	3.56
	Aug	3.26	37.40	0.50	38.00	0.00	3.16
Nigeria	Jul	1.29	4.90	2.20	7.30	0.00	1.09
	Aug	1.29	4.90	2.20	7.30	0.00	1.09
Philippines	Jul	3.49	12.20	2.70	14.60	0.00	3.79
	Aug	3.49	12.20	2.70	14.60	0.00	3.79
Sel. Mideast 7/	Jul	0.87	2.03	3.88	6.06	0.00	0.73
	Aug	0.80	2.29	3.68	6.06	0.00	0.71
Selected Other							
Brazil	Jul	0.28	7.21	0.90	7.55	0.55	0.29
	Aug	0.28	7.21	0.90	7.55	0.55	0.29
C. Amer & Carib 8/	Jul	0.67	1.64	1.83	3.43	0.04	0.67
	Aug	0.67	1.64	1.84	3.44	0.04	0.67
Egypt	Jul	1.09	3.05	0.60	3.90	0.01	0.83
	Aug	1.09	3.05	0.60	3.90	0.01	0.83
Japan	Jul	1.95	7.70	0.69	8.48	0.06	1.79
	Aug	1.95	7.70	0.69	8.48	0.06	1.79
Mexico	Jul	0.22	0.20	0.79	0.91	0.10	0.20
	Aug	0.17	0.20	0.79	0.93	0.02	0.21
South Korea	Jul	1.02	3.88	0.41	4.48	0.06	0.78
	Aug	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 - 591 - 26

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

<b>2017/18</b>	Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	80.31	123.78	41.02	122.68	40.95	0.45	81.03
World Less China	34.39	96.28	35.29	81.68	40.83	0.45	43.01
United States	2.75	20.92	3/	3.23	15.85	0.30	4.30
Total Foreign	77.56	102.86	41.02	119.45	25.11	0.15	76.73
Major Exporters 4/	21.94	57.10	2.46	32.75	21.73	0.02	27.00
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/	10.21	15.70	0.24	4.44	8.63	0.01	13.07
Australia	2.19	4.80	3/	0.04	3.92	0.00	3.04
Brazil	6.93	9.22	0.08	3.40	4.17	0.00	8.66
India	7.88	29.00	1.68	24.15	5.18	0.00	9.23
Major Importers 8/	54.17	42.93	35.91	82.66	2.34	0.12	47.88
Mexico	0.45	1.56	0.93	1.90	0.35	0.03	0.66
China	45.92	27.50	5.73	41.00	0.13	0.00	38.02
European Union 9/	0.18	1.53	0.73	0.76	1.37	0.04	0.28
Turkey	1.53	4.00	4.02	7.45	0.33	0.00	1.78
Pakistan	2.32	8.20	3.30	10.80	0.16	0.03	2.83
Indonesia	0.62	3/	3.50	3.50	0.01	0.00	0.62
Thailand	0.20	3/	1.15	1.13	0.00	0.03	0.20
Bangladesh	1.63	0.14	7.60	7.50	0.00	0.01	1.86
Vietnam	0.88	3/	6.95	6.60	0.00	0.00	1.24
<b>2018/19 Est.</b>							
World	81.03	119.19	41.83	120.61	40.83	0.34	80.27
World Less China	43.01	91.44	32.33	81.11	40.65	0.34	44.68
United States	4.30	18.37	0.01	3.00	14.22	0.21	5.25
Total Foreign	76.73	100.83	41.82	117.61	26.61	0.14	75.02
Major Exporters 4/	27.00	55.29	2.14	33.65	22.40	0.02	28.36
Central Asia 5/	2.77	5.44	3/	3.83	1.87	0.00	2.52
Afr. Fr. Zone 6/	1.70	5.34	3/	0.14	5.50	0.00	1.40
S. Hemis. 7/	13.07	17.37	0.19	4.54	11.00	0.01	15.08
Australia	3.04	2.40	3/	0.04	3.80	0.00	1.60
Brazil	8.66	12.80	0.05	3.50	6.01	0.00	11.99
India	9.23	26.50	1.50	24.50	3.60	0.00	9.13
Major Importers 8/	47.88	42.60	37.18	79.77	2.92	0.11	44.86
Mexico	0.66	1.69	0.85	1.95	0.50	0.03	0.72
China	38.02	27.75	9.50	39.50	0.18	0.00	35.59
European Union 9/	0.28	1.72	0.69	0.75	1.66	0.03	0.25
Turkey	1.78	3.70	3.40	6.70	0.50	0.00	1.68
Pakistan	2.83	7.60	2.90	10.60	0.08	0.03	2.63
Indonesia	0.62	3/	3.00	3.10	0.01	0.00	0.51
Thailand	0.20	3/	1.12	1.11	0.00	0.03	0.19
Bangladesh	1.86	0.14	6.90	7.10	0.00	0.01	1.78
Vietnam	1.24	3/	7.00	7.10	0.00	0.00	1.14

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 - 591 - 27

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

<b>2019/20 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	Jul	79.27	125.79	44.12	124.27	44.15	0.34	80.42
	Aug	80.27	125.61	43.90	123.07	43.85	0.40	82.45
World Less China	Jul	43.91	98.04	33.62	83.77	44.03	0.34	47.43
	Aug	44.68	97.86	33.40	83.07	43.73	0.40	48.74
United States	Jul	5.00	22.00	0.01	3.10	17.00	0.21	6.70
	Aug	5.25	22.52	0.01	3.10	17.20	0.27	7.20
Total Foreign	Jul	74.27	103.79	44.11	121.17	27.15	0.13	73.72
	Aug	75.02	103.09	43.90	119.97	26.65	0.13	75.25
Major Exporters 4/	Jul	27.79	57.22	2.14	35.11	23.01	0.02	29.00
	Aug	28.36	56.65	2.11	34.41	22.61	0.02	30.07
Central Asia 5/	Jul	2.49	5.76	3/	4.09	1.79	0.00	2.37
	Aug	2.52	5.26	3/	3.99	1.51	0.00	2.29
Afr. Fr. Zone 6/	Jul	1.59	6.01	3/	0.14	5.61	0.00	1.85
	Aug	1.40	5.98	3/	0.14	5.64	0.00	1.60
S. Hemis. 7/	Jul	15.07	15.97	0.21	4.67	10.97	0.01	15.60
	Aug	15.08	15.92	0.21	4.62	10.97	0.01	15.61
Australia	Jul	1.80	1.90	3/	0.04	1.80	0.00	1.87
	Aug	1.60	1.90	3/	0.04	1.80	0.00	1.67
Brazil	Jul	11.81	12.00	0.08	3.60	8.00	0.00	12.28
	Aug	11.99	12.00	0.08	3.60	8.00	0.00	12.47
India	Jul	8.43	29.00	1.40	25.50	4.40	0.00	8.93
	Aug	9.13	29.00	1.40	25.00	4.20	0.00	10.33
Major Importers 8/	Jul	44.67	43.52	39.41	81.79	2.90	0.11	42.79
	Aug	44.86	43.40	39.22	81.29	2.79	0.11	43.29
Mexico	Jul	0.72	1.75	0.85	2.00	0.55	0.03	0.75
	Aug	0.72	1.70	0.85	2.00	0.55	0.03	0.70
China	Jul	35.37	27.75	10.50	40.50	0.13	0.00	32.99
	Aug	35.59	27.75	10.50	40.00	0.13	0.00	33.71
European Union 9/	Jul	0.26	1.78	0.67	0.73	1.69	0.03	0.26
	Aug	0.25	1.71	0.68	0.73	1.63	0.03	0.25
Turkey	Jul	1.58	4.10	3.00	6.70	0.38	0.00	1.60
	Aug	1.68	4.10	3.00	6.70	0.38	0.00	1.70
Pakistan	Jul	2.73	8.00	3.00	10.70	0.15	0.03	2.86
	Aug	2.63	8.00	2.80	10.70	0.10	0.03	2.61
Indonesia	Jul	0.51	3/	3.30	3.20	0.01	0.00	0.61
	Aug	0.51	3/	3.30	3.20	0.01	0.00	0.61
Thailand	Jul	0.20	3/	1.18	1.15	0.00	0.03	0.21
	Aug	0.19	3/	1.18	1.15	0.00	0.03	0.19
Bangladesh	Jul	1.78	0.14	7.30	7.40	0.00	0.01	1.81
	Aug	1.78	0.14	7.30	7.40	0.00	0.01	1.81
Vietnam	Jul	1.14	3/	7.80	7.60	0.00	0.00	1.34
	Aug	1.14	3/	7.80	7.60	0.00	0.00	1.34

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 - 591 - 28

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

<b>2017/18</b>		Beginning Stocks	Production	Imports	Domestic Crush	Domestic Total	Exports	Ending Stocks
World 2/		96.16	341.53	153.00	295.21	338.50	153.08	99.10
World Less China		75.50	326.33	58.90	205.21	232.20	152.95	75.58
United States		8.21	120.07	0.59	55.93	58.87	58.07	11.92
Total Foreign		87.95	221.47	152.40	239.29	279.63	95.01	87.18
Major Exporters 3/		60.64	171.43	4.89	85.39	94.17	85.57	57.23
Argentina		27.00	37.80	4.70	36.93	43.63	2.11	23.75
Brazil		33.21	122.00	0.18	44.52	46.51	76.18	32.70
Paraguay		0.44	10.30	0.01	3.87	3.94	6.03	0.77
Major Importers 4/		23.34	19.11	124.51	116.06	140.35	0.43	26.17
China		20.66	15.20	94.10	90.00	106.30	0.13	23.52
European Union		1.15	2.54	14.58	14.95	16.60	0.28	1.40
Southeast Asia		1.15	0.69	7.71	3.46	8.64	0.02	0.88
Mexico		0.15	0.43	4.87	5.25	5.29	0.00	0.17
<b>2018/19 Est.</b>								
World 2/		99.10	362.85	147.51	299.77	346.63	148.30	114.53
World Less China		75.58	346.95	64.51	214.77	244.53	148.18	94.33
United States		11.92	123.66	0.46	56.20	60.65	46.27	29.13
Total Foreign		87.18	239.19	147.05	243.57	285.98	102.04	85.40
Major Exporters 3/		57.23	184.83	6.51	88.18	97.81	92.95	57.81
Argentina		23.75	56.00	6.35	41.00	47.90	7.75	30.45
Brazil		32.70	117.00	0.15	43.20	45.85	76.85	27.15
Paraguay		0.77	9.00	0.01	3.90	3.98	5.60	0.20
Major Importers 4/		26.17	19.77	116.32	113.70	138.99	0.33	22.94
China		23.52	15.90	83.00	85.00	102.10	0.13	20.20
European Union		1.40	2.66	15.70	16.60	18.26	0.17	1.34
Southeast Asia		0.88	0.66	9.09	4.20	9.56	0.04	1.03
Mexico		0.17	0.34	5.23	5.50	5.54	0.00	0.20
<b>2019/20 Proj.</b>								
World 2/	Jul	112.98	347.04	150.82	307.85	355.06	151.26	104.53
	Aug	114.53	341.83	148.87	307.08	354.32	149.17	101.74
World Less China	Jul	91.78	330.04	63.82	221.85	251.36	151.13	83.15
	Aug	94.33	324.83	63.87	222.08	251.62	149.05	82.37
United States	Jul	28.56	104.64	0.54	57.56	61.09	51.03	21.63
	Aug	29.13	100.16	0.54	57.56	60.98	48.31	20.54
Total Foreign	Jul	84.42	242.40	150.27	250.29	293.96	100.23	82.90
	Aug	85.40	241.68	148.32	249.52	293.34	100.87	81.20
Major Exporters 3/	Jul	56.41	188.40	4.11	92.78	102.76	92.33	53.83
	Aug	57.81	188.40	4.11	92.78	102.76	92.83	54.73
Argentina	Jul	29.45	53.00	3.90	45.00	52.15	8.00	26.20
	Aug	30.45	53.00	3.90	45.00	52.15	8.00	27.20
Brazil	Jul	26.75	123.00	0.20	43.75	46.50	76.00	27.45
	Aug	27.15	123.00	0.20	43.75	46.50	76.50	27.35
Paraguay	Jul	0.20	10.20	0.01	3.95	4.03	6.20	0.18
	Aug	0.20	10.20	0.01	3.95	4.03	6.20	0.18
Major Importers 4/	Jul	24.05	21.07	121.24	115.01	141.16	0.39	24.80
	Aug	22.94	20.94	119.14	113.91	140.06	0.39	22.57
China	Jul	21.20	17.00	87.00	86.00	103.70	0.13	21.37
	Aug	20.20	17.00	85.00	85.00	102.70	0.13	19.37
European Union	Jul	1.44	2.78	15.10	16.00	17.66	0.23	1.43
	Aug	1.34	2.65	15.10	16.00	17.66	0.23	1.20
Southeast Asia	Jul	1.03	0.64	9.99	4.63	10.24	0.04	1.37
	Aug	1.03	0.64	9.89	4.53	10.14	0.04	1.37
Mexico	Jul	0.20	0.40	5.80	5.95	5.99	0.00	0.41
	Aug	0.20	0.40	5.80	5.95	5.99	0.00	0.41

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

## WASDE - 591 - 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/		13.25	232.41	59.99	229.33	63.88	12.43
World Less China		13.25	161.13	59.97	159.23	62.69	12.43
United States		0.36	44.66	0.44	32.24	12.72	0.50
Total Foreign		12.88	187.75	59.55	197.10	51.17	11.92
Major Exporters 3/		7.24	68.59	0.03	25.51	43.26	7.09
Argentina		3.34	27.93	0.00	3.00	25.35	2.92
Brazil		3.32	34.50	0.02	17.71	16.06	4.06
India		0.58	6.16	0.01	4.80	1.84	0.11
Major Importers 4/		1.90	20.48	38.62	58.96	0.66	1.38
European Union		0.49	11.81	18.35	30.04	0.40	0.21
Mexico		0.04	4.15	1.82	5.95	0.02	0.04
Southeast Asia 5/		1.28	2.70	16.72	19.42	0.25	1.04
<b>2018/19 Est.</b>							
World 2/		12.43	234.95	62.35	231.40	66.58	11.75
World Less China		12.43	167.63	62.33	165.01	65.63	11.75
United States		0.50	43.93	0.66	32.39	12.29	0.41
Total Foreign		11.92	191.03	61.69	199.01	54.29	11.35
Major Exporters 3/		7.09	72.05	0.04	26.92	45.95	6.32
Argentina		2.92	30.95	0.00	3.19	28.00	2.69
Brazil		4.06	33.50	0.03	18.13	16.10	3.36
India		0.11	7.60	0.02	5.60	1.85	0.28
Major Importers 4/		1.38	22.55	39.42	61.10	0.58	1.67
European Union		0.21	13.11	18.50	31.08	0.35	0.40
Mexico		0.04	4.35	2.00	6.33	0.02	0.05
Southeast Asia 5/		1.04	3.28	17.15	20.12	0.22	1.13
<b>2019/20 Proj.</b>							
World 2/	Jul	11.78	241.31	64.73	237.90	68.13	11.79
	Aug	11.75	240.64	64.39	236.86	68.32	11.61
World Less China	Jul	11.78	173.20	64.68	170.64	67.23	11.79
	Aug	11.75	173.32	64.34	170.39	67.42	11.61
United States	Jul	0.41	45.04	0.45	33.20	12.34	0.36
	Aug	0.41	45.04	0.45	33.11	12.43	0.36
Total Foreign	Jul	11.37	196.27	64.27	204.70	55.79	11.43
	Aug	11.35	195.60	63.93	203.75	55.89	11.24
Major Exporters 3/	Jul	6.32	75.55	0.04	28.00	47.55	6.36
	Aug	6.32	75.55	0.04	28.10	47.55	6.26
Argentina	Jul	2.69	34.00	0.00	3.30	30.50	2.89
	Aug	2.69	34.00	0.00	3.40	30.50	2.79
Brazil	Jul	3.36	33.95	0.03	18.95	15.20	3.19
	Aug	3.36	33.95	0.03	18.95	15.20	3.19
India	Jul	0.28	7.60	0.02	5.75	1.85	0.29
	Aug	0.28	7.60	0.02	5.75	1.85	0.29
Major Importers 4/	Jul	1.67	22.79	40.29	62.36	0.60	1.79
	Aug	1.67	22.71	40.23	62.20	0.60	1.81
European Union	Jul	0.40	12.64	19.00	31.34	0.35	0.35
	Aug	0.40	12.64	19.00	31.34	0.35	0.35
Mexico	Jul	0.05	4.70	2.13	6.75	0.02	0.12
	Aug	0.05	4.70	2.13	6.75	0.02	0.12
Southeast Asia 5/	Jul	1.13	3.61	17.38	20.67	0.23	1.23
	Aug	1.13	3.54	17.32	20.51	0.23	1.26

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 - 591 - 30

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

<b>2017/18</b>		Beginning Stocks	Production	Imports	Domestic Total	Exports	Ending Stocks
World 2/		3.79	55.18	9.79	54.71	10.50	3.56
World Less China		3.12	39.06	9.31	38.21	10.29	2.99
United States		0.78	10.78	0.15	9.70	1.11	0.91
Total Foreign		3.01	44.40	9.64	45.01	9.40	2.65
Major Exporters 3/		0.74	19.35	0.33	12.28	7.25	0.89
Argentina		0.28	7.24	0.00	3.08	4.13	0.31
Brazil		0.29	8.54	0.05	6.94	1.51	0.42
European Union		0.16	2.84	0.28	2.23	0.90	0.16
Major Importers 4/		1.37	18.44	5.86	24.48	0.27	0.91
China		0.67	16.13	0.48	16.50	0.21	0.57
India		0.48	1.39	2.98	4.72	0.01	0.12
North Africa 5/		0.13	0.70	1.53	2.18	0.06	0.13
<b>2018/19 Est.</b>							
World 2/		3.56	56.04	11.08	55.64	11.26	3.78
World Less China		2.99	40.81	10.33	39.76	11.10	3.27
United States		0.91	10.88	0.18	10.25	0.93	0.79
Total Foreign		2.65	45.15	10.90	45.39	10.33	2.99
Major Exporters 3/		0.89	20.10	0.41	12.20	8.06	1.15
Argentina		0.31	8.00	0.00	2.68	5.30	0.33
Brazil		0.42	8.21	0.05	7.13	1.15	0.40
European Union		0.16	3.15	0.35	2.36	0.90	0.41
Major Importers 4/		0.91	17.96	6.82	24.46	0.25	0.98
China		0.57	15.23	0.75	15.89	0.16	0.51
India		0.12	1.71	3.40	5.05	0.01	0.18
North Africa 5/		0.13	0.73	1.63	2.28	0.08	0.13
<b>2019/20 Proj.</b>							
World 2/	Jul	3.63	57.52	11.43	57.14	11.87	3.57
	Aug	3.78	57.41	11.68	57.25	11.90	3.72
World Less China	Jul	3.13	42.11	10.33	40.75	11.75	3.07
	Aug	3.27	42.18	10.58	41.03	11.78	3.22
United States	Jul	0.85	11.13	0.20	10.71	0.78	0.70
	Aug	0.79	11.13	0.20	10.66	0.78	0.68
Total Foreign	Jul	2.78	46.39	11.23	46.44	11.09	2.87
	Aug	2.99	46.28	11.48	46.59	11.12	3.04
Major Exporters 3/	Jul	1.07	20.87	0.38	12.43	8.82	1.08
	Aug	1.15	20.87	0.38	12.43	8.82	1.15
Argentina	Jul	0.38	8.70	0.00	2.84	5.85	0.39
	Aug	0.33	8.70	0.00	2.84	5.85	0.34
Brazil	Jul	0.35	8.39	0.05	7.20	1.25	0.34
	Aug	0.40	8.39	0.05	7.20	1.25	0.39
European Union	Jul	0.33	3.04	0.33	2.36	1.00	0.34
	Aug	0.41	3.04	0.33	2.36	1.00	0.42
Major Importers 4/	Jul	0.86	18.16	7.06	24.92	0.21	0.94
	Aug	0.98	18.00	7.31	25.06	0.21	1.02
China	Jul	0.51	15.41	1.10	16.39	0.13	0.50
	Aug	0.51	15.23	1.10	16.21	0.13	0.50
India	Jul	0.18	1.71	3.50	5.15	0.01	0.23
	Aug	0.18	1.71	3.50	5.15	0.01	0.23
North Africa 5/	Jul	0.13	0.73	1.66	2.32	0.08	0.12
	Aug	0.13	0.73	1.66	2.32	0.08	0.12

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

## WASDE - 591 - 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	III	6,819	6,315	13,189	10,940	1,431	12,515	25,704	2,300	54.0
	IV	6,862	7,031	13,952	10,588	1,518	12,239	26,191	2,331	53.4
	Annual	26,872	26,315	53,417	42,601	5,878	49,018	102,435	9,115	217.6
2019	I	6,414	6,838	13,308	10,384	1,446	11,957	25,264	2,307	54.5
	II	6,814	6,615	13,487	10,927	1,450	12,507	25,994	2,337	55.8
	III*	6,920	6,760	13,735	11,200	1,460	12,797	26,532	2,325	53.9
	IV*	6,895	7,420	14,373	10,800	1,530	12,460	26,833	2,355	53.8
	Annual									
	Jul Proj.	27,129	27,648	55,004	43,109	5,866	49,514	104,517	9,364	218.2
	Aug Proj.	27,043	27,633	54,903	43,311	5,886	49,721	104,624	9,324	217.9
2020	I*	6,565	7,115	13,737	10,475	1,455	12,056	25,793	2,310	55.4
	II*	7,005	6,785	13,846	11,050	1,465	12,657	26,503	2,340	56.5
	Annual									
	Jul Proj.	27,420	28,410	56,058	43,350	5,900	49,796	105,854	9,410	221.8
	Aug Proj.	27,565	28,410	56,203	43,800	5,930	50,276	106,479	9,410	221.4

\* 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	III	110.83	43.90	93.7	80.4	120.8	16.17
	IV	115.32	42.77	86.7	81.4	125.6	17.07
	Annual	117.12	45.93	97.8	80.2	137.6	16.26
2019	I	125.27	40.67	94.0	82.8	107.3	16.97
	II	118.79	57.95	97.7	85.5	69.7	17.93
	III*	110.00	53.00	80.0	91.0	68.0	18.90
	IV*	112.00	52.00	75.0	94.0	89.0	19.45
	Annual						
	Jul Proj.	115.5	51.5	88.0	87.5	85.5	18.20
	Aug Proj.	116.5	51.0	86.5	88.5	83.5	18.30
2020	I*	124.00	56.00	90.0	86.0	84.0	18.80
	II*	122.00	61.00	101.0	88.0	85.0	18.60
	Annual						
	Jul Proj.	119	59	94	90	100	18.85
	Aug Proj.	119	59	92	90	97	18.80

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

## WASDE - 591 - 32

## U.S. Meats Supply and Use

		Beginning Production stocks	1/ Imports	Total Supply	Exports	Ending Stocks	Total Use	Per Capita 2/ 3/	
		<i>Million Pounds /4</i>							
Beef	2018	649	26,938	2,998	30,585	3,161	662	26,762	57.2
	2019 Proj. Jul	662	27,195	3,048	30,905	3,151	665	27,090	57.6
	Aug	662	27,109	3,045	30,816	3,151	660	27,005	57.4
	2020 Proj. Jul	665	27,486	2,960	31,111	3,245	665	27,201	57.5
	Aug	660	27,631	2,960	31,251	3,245	665	27,341	57.8
Pork	2018	554	26,330	1,042	27,926	5,876	559	21,491	50.9
	2019 Proj. Jul	559	27,662	974	29,195	6,441	565	22,189	52.3
	Aug	559	27,647	956	29,162	6,455	600	22,107	52.1
	2020 Proj. Jul	565	28,424	935	29,924	6,945	575	22,404	52.5
	Aug	600	28,424	915	29,939	6,945	650	22,344	52.3
Total Red Meat 5/	2018	1,246	53,507	4,313	59,066	9,043	1,266	48,757	109.5
	2019 Proj. Jul	1,266	55,093	4,294	60,653	9,599	1,268	49,786	111.2
	Aug	1,266	54,992	4,271	60,529	9,613	1,301	49,615	110.8
	2020 Proj. Jul	1,268	56,148	4,166	61,582	10,197	1,279	50,106	111.2
	Aug	1,301	56,293	4,144	61,738	10,197	1,354	50,187	111.4
Broiler	2018	856	42,145	139	43,140	7,069	845	35,227	92.4
	2019 Proj. Jul	845	42,648	133	43,625	7,137	845	35,644	92.9
	Aug	845	42,848	128	43,820	7,121	845	35,854	93.5
	2020 Proj. Jul	845	42,886	132	43,863	7,250	840	35,773	92.7
	Aug	845	43,331	132	44,308	7,250	840	36,218	93.9
Turkey	2018	310	5,878	19	6,206	611	303	5,293	16.2
	2019 Proj. Jul	303	5,866	16	6,184	627	290	5,268	16.0
	Aug	303	5,886	15	6,204	627	295	5,281	16.0
	2020 Proj. Jul	290	5,900	16	6,206	630	305	5,271	15.9
	Aug	295	5,930	16	6,241	630	310	5,301	16.0
Total Poultry 6/	2018	1,170	48,562	160	49,892	7,764	1,153	40,975	110.0
	2019 Proj. Jul	1,153	49,052	152	50,356	7,835	1,142	41,379	110.4
	Aug	1,153	49,257	145	50,555	7,827	1,147	41,582	110.9
	2020 Proj. Jul	1,142	49,332	151	50,625	7,952	1,153	41,520	110.1
	Aug	1,147	49,807	151	51,105	7,960	1,158	41,987	111.3
Red Meat & Poultry	2018	2,416	102,069	4,473	108,958	16,807	2,419	89,732	219.5
	2019 Proj. Jul	2,419	104,145	4,445	111,009	17,434	2,410	91,165	221.5
	Aug	2,419	104,249	4,417	111,085	17,440	2,448	91,197	221.7
	2020 Proj. Jul	2,410	105,479	4,317	112,206	18,149	2,432	91,625	221.3
	Aug	2,448	106,100	4,295	112,843	18,157	2,512	92,174	222.7

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 - 591 - 33

## U.S. Egg Supply and Use

	2017	2018	2019 Proj.	2019 Proj.	2020 Proj.	2020 Proj.
			Jul	Aug	Jul	Aug
Eggs	<i>Million Dozen</i>					
Supply						
Beginning Stocks	142.2	87.5	78.8	78.8	92.0	95.0
Production	8,942.7	9,114.6	9,363.8	9,324.0	9,410.0	9,410.0
Imports	34.2	17.8	18.1	16.5	18.0	16.0
Total Supply	9,119.1	9,220.0	9,460.7	9,419.3	9,520.0	9,521.0
Use						
Exports	354.9	333.1	301.8	314.3	280.0	300.0
Hatching Use	1,035.2	1,057.5	1,076.4	1,068.1	1,090.0	1,090.0
Ending Stocks	87.5	78.8	92.0	95.0	95.0	95.0
Disappearance						
Total	7,641.5	7,750.6	7,990.4	7,941.8	8,055.0	8,036.0
Per Capita (number)	281.8	284.0	291.1	289.3	291.7	291.0

## U.S. Milk Supply and Use

	2017	2018	2019 Proj.	2019 Proj.	2020 Proj.	2020 Proj.
			Jul	Aug	Jul	Aug
Milk	<i>Billion Pounds</i>					
Production	215.5	217.6	218.2	217.9	221.8	221.4
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	13.1	13.0
Marketings	214.5	216.6	217.2	216.9	220.8	220.3
Imports	6.0	6.3	6.9	7.2	6.8	7.0
Total Cml. Supply	233.2	236.3	237.8	237.8	240.7	240.3
Fat Basis Use						
Commercial Exports	9.2	10.4	9.5	9.4	10.2	9.9
Ending Commercial Stocks	13.4	13.8	13.1	13.0	13.1	13.0
CCC Donations	0.0	0.0	0.2	0.2	0.0	0.0
Domestic Commercial Use	210.6	212.1	215.1	215.2	217.4	217.5
Skim-solid Basis Supply						
Beg. Commercial Stocks	9.5	11.8	10.7	10.7	10.0	10.0
Marketings	214.5	216.6	217.2	216.9	220.8	220.3
Imports	6.1	5.5	5.4	5.5	5.0	5.2
Total Cml. Supply	230.1	233.8	233.2	233.1	235.8	235.5
Skim-solid Basis Use						
Commercial Exports	40.8	44.7	41.3	40.6	42.9	42.4
Ending Commercial Stocks	11.8	10.7	10.0	10.0	10.1	10.1
CCC Donations	0.0	0.0	0.2	0.2	0.0	0.0
Domestic Commercial Use	177.5	178.5	181.7	182.3	182.8	183.1

Note: Totals may not add due to rounding.

## WASDE - 591 - 34

## U.S. Dairy Prices

	2017	2018	2019 Proj. Jul	2019 Proj. Aug	2020 Proj. Jul	2020 Proj. Aug
Product Prices 1/			<i>Dollars Per Pound</i>			
Cheese	1.6344	1.5377	1.660	1.685	1.730	1.725
Butter	2.3303	2.2572	2.315	2.320	2.345	2.335
Nonfat Dry Milk	0.8666	0.7945	1.020	1.005	1.045	1.015
Dry Whey	0.4437	0.3422	0.375	0.380	0.360	0.360
			<i>Dollars Per Cwt</i>			
Milk Prices 2/						
Class III	16.17	14.61	16.05	16.30	16.65	16.55
Class IV	15.16	14.23	16.45	16.30	16.75	16.45
All Milk 3/	17.65	16.26	18.20	18.30	18.85	18.80

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

## WASDE - 591 - 35

## Reliability of August Projections 1/

Note: Tables on pages 35-37 present a record of the August 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 2.3 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 3.9 percent. The average difference between the August projection and the final estimate is 10.8 million tons, ranging from 0.2 million to 32.1 million tons. The August projection has been below the estimate 26 times and above 12 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>				
<b>WHEAT</b>							
Production							
World	2.3	3.9	10.8	0.2	32.1	26	12
U.S.	2.3	3.9	1.1	0.0	4.2	16	22
Foreign	2.6	4.3	10.6	0.6	31.1	26	12
Exports							
World	5.8	9.9	6.2	0.4	19.1	28	10
U.S.	11.1	18.8	2.7	0.0	10.0	17	20
Foreign	7.2	12.3	6.0	0.3	20.5	27	11
Domestic Use							
World	1.8	3.1	7.9	0.2	23.4	20	18
U.S.	7.5	12.7	2.0	0.0	5.5	12	26
Foreign	1.8	3.1	7.7	0.2	22.0	23	15
Ending Stocks							
World	9.2	15.7	11.2	0.3	31.2	29	9
U.S.	15.4	26.1	3.0	0.5	12.6	24	14
Foreign	9.9	16.8	9.6	0.2	28.7	29	9
<b>COARSE GRAINS 2/</b>							
Production							
World	2.4	4.1	18.6	0.4	53.7	29	9
U.S.	6.1	10.4	9.6	0.0	31.4	24	14
Foreign	2.6	4.3	15.1	0.7	58.4	26	12
Exports							
World	7.2	12.2	6.9	0.1	23.8	26	12
U.S.	21.1	35.7	7.5	0.4	19.7	16	22
Foreign	14.4	24.4	7.8	1.4	19.9	25	13
Domestic Use							
World	1.7	2.9	13.4	0.2	36.8	22	16
U.S.	4.2	7.1	6.9	0.2	17.0	22	16
Foreign	1.9	3.2	11.8	1.1	39.2	24	14
Ending Stocks							
World	16.5	28.1	21.6	0.1	171.8	30	8
U.S.	28.6	48.5	10.1	0.3	43.5	19	19
Foreign	17.2	29.2	15.8	0.2	154.8	30	8
<b>RICE, milled</b>							
Production							
World	2.3	3.9	6.6	0.1	24.4	25	13
U.S.	5.4	9.1	0.3	0.0	0.6	20	18
Foreign	2.4	4.0	6.6	0.4	24.7	26	12
Exports							
World	9.1	15.4	1.7	0.0	6.9	27	11
U.S.	11.6	19.7	0.2	0.0	1.0	19	17
Foreign	10.1	17.2	1.6	0.1	6.8	26	12
Domestic Use							
World	1.8	3.1	4.3	0.1	23.5	29	9
U.S.	8.5	14.4	0.2	0.0	0.5	17	21
Foreign	1.9	3.2	4.3	0.0	24.0	28	10
Ending Stocks							
World	12.5	21.2	6.2	0.1	27.3	30	8
U.S.	29.1	49.4	0.2	0.0	1.0	23	14
Foreign	13.5	22.8	6.2	0.1	27.1	30	8

1/ Footnotes at end of table.

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## WASDE - 591 - 36

## Reliability of August 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	4.7	8.0	7.3	0.3	26.7	22	16
U.S.	6.1	10.3	3.3	0.0	11.1	21	16
Foreign	7.6	12.9	6.8	1.1	26.4	19	19
Exports							
World	7.1	12.0	3.2	0.2	11.6	25	13
U.S.	12.5	21.2	3.0	0.0	9.8	22	15
Foreign	19.4	33.0	2.7	0.0	9.4	19	19
Domestic Use							
World	3.5	6.0	4.9	0.0	15.9	24	14
U.S.	5.1	8.6	1.8	0.0	4.6	25	13
Foreign	4.1	6.9	4.4	0.6	11.3	23	15
Ending Stocks							
World	16.9	28.6	4.8	0.1	23.5	20	18
U.S.	45.4	77.0	2.7	0.3	7.3	13	25
Foreign	19.0	32.2	4.5	0.2	21.3	22	16
COTTON	<i>Million 480-Pound Bales</i>						
Production							
World	5.0	8.5	3.5	0.0	13.2	21	16
U.S.	7.5	12.8	1.0	0.0	3.9	19	18
Foreign	5.5	9.3	3.1	0.0	10.9	21	16
Exports							
World	9.7	16.4	2.3	0.1	10.2	18	20
U.S.	21.7	36.8	1.2	0.0	3.2	20	18
Foreign	12.5	21.3	1.8	0.1	8.5	20	18
Domestic Use							
World	4.0	6.8	3.1	0.3	14.2	15	23
U.S.	9.1	15.4	0.4	0.0	1.3	18	17
Foreign	4.1	6.9	3.0	0.3	13.4	16	22
Ending Stocks							
World	14.9	25.3	5.4	0.2	14.2	26	12
U.S.	40.2	68.2	1.4	0.0	5.1	14	23
Foreign	15.1	25.6	4.8	0.1	14.0	28	10

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 - 591 - 37

## Reliability of United States August Projections 1/

	Differences between forecast and final estimate						
	Root mean square error	90 percent confidence interval	Average	Smallest	Largest	Years Below Final	Years Above Final
<b>CORN</b>	<i>Percent</i>		<i>Million Bushels</i>				
Production	6.6	11.2	358	1	1,079	23	15
Exports	21.9	37.2	267	12	750	16	22
Domestic Use	4.6	7.8	280	10	590	24	14
Ending Stocks	33.9	57.6	373	12	1,674	18	20
<b>SORGHUM</b>							
Production	8.0	13.6	33	1	108	20	18
Exports	33.6	57.0	42	1	160	18	20
Domestic Use	26.3	44.6	43	0	130	18	18
Ending Stocks	54.7	92.8	37	2	201	15	23
<b>BARLEY</b>							
Production	6.2	10.4	15	1	67	14	24
Exports	66.0	112.0	13	0	82	16	18
Domestic Use	10.1	17.2	24	0	82	12	25
Ending Stocks	19.2	32.6	21	0	94	18	19
<b>OATS</b>							
Production	9.9	16.8	13	1	57	7	31
Exports	96.9	164.4	1	0	8	9	12
Domestic Use	6.7	11.3	14	1	39	11	27
Ending Stocks	23.8	40.4	15	2	40	17	21
<b>SOYBEAN MEAL</b>			<i>Thousand Short Tons</i>				
Production	5.0	8.6	1,363	32	3,669	27	11
Exports	16.0	27.1	960	50	3,500	24	14
Domestic Use	4.1	6.9	809	24	3,800	23	15
Ending Stocks	43.2	73.3	52	0	428	12	14
<b>SOYBEAN OIL</b>			<i>Million Pounds</i>				
Production	5.0	8.5	669	11	2,290	25	13
Exports	32.9	55.8	391	0	1,575	17	18
Domestic Use	4.2	7.2	473	8	2,200	25	13
Ending Stocks	33.0	55.9	468	0	1,472	20	17
<b>ANIMAL PROD.</b>			<i>Million Pounds</i>				
Beef	4.1	7.0	813	110	2,536	25	12
Pork	3.0	5.1	404	10	1,375	22	15
Broilers	2.2	3.8	563	49	1,338	20	17
Turkeys	3.8	6.4	145	2	458	21	16
			<i>Million Dozen</i>				
Eggs	1.9	3.2	108	4	394	25	12
			<i>Billion Pounds</i>				
Milk	1.6	2.8	1.9	0.0	7.0	19	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 1994-2018.

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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

# USDA Data Users' Meeting



## **USDA NASS Data Users' Meeting Tuesday, October 15, 2019**

American Farm Bureau Federation  
600 Maryland Ave SW #1000w  
Washington, DC 20024

USDA's National Agricultural Statistics Service will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For registration details and additional information about the Data Users' Meeting, see the meeting page on the NASS website ([https://www.nass.usda.gov/Education\\_and\\_Outreach/Meeting/index.php](https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php)). Contact Vernita Murray (NASS) at 202-690-8141 or [vernita.murray@nass.usda.gov](mailto:vernita.murray@nass.usda.gov) or Patricia Snipe (NASS) at 202-720-2248 or [patricia.snipe@nass.usda.gov](mailto:patricia.snipe@nass.usda.gov) for information.

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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-591 – August 12, 2019**

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