

# World Agricultural Supply and Demand Estimates

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WASDE - 616

Approved by the World Agricultural Outlook Board

September 10, 2021

**Note on Ida:** This report includes updated production forecasts issued by the National Agricultural Statistics Service which generally reflect crop conditions as of the first day of the month. The supply and demand impacts of transportation and port disruptions caused by Hurricane Ida are presumed to be temporary based on available information as of September 10, 2021.

**WHEAT:** The outlook for 2021/22 U.S. wheat this month is for reduced supplies, slightly higher domestic use, unchanged exports, and decreased ending stocks. Supplies are reduced as imports are lowered 10 million bushels to 135 million on the import pace. Food use is raised 2 million bushels to 964 million, reflecting an upward revision of 2020/21 food use. Exports are unchanged at 875 million bushels but there are offsetting by-class changes. Projected 2021/22 ending stocks are reduced 12 million bushels to 615 million and are 27 percent below last year and the lowest in eight years. The projected 2021/22 season-average farm price is lowered \$0.10 per bushel to \$6.60 on reported NASS prices to date and price expectations for the remainder of 2021/22.

The global wheat outlook for 2021/22 is for increased supplies, higher consumption, more trade, and higher ending stocks. Supplies are projected rising by 7.1 million tons to 1,072.8 million, on the combination of larger beginning stocks for Canada, EU, and India and higher production for Australia, India, and China. Australia's production is raised 1.5 million tons to 31.5 million on continued widespread favorable conditions to date. This would be Australia's third largest wheat crop on record. India's production is increased 1.5 million tons to 109.5 million on the government's 4<sup>th</sup> Advance Estimate and this would be India's fifth consecutive record crop. China's production is increased 900,000 tons to 136.9 million, mainly on a higher area estimated by the National Bureau of Statistics. Partially offsetting these increases, Canadian production is lowered 1.0 million tons to 23.0 million, based on the Statistics Canada forecast issued August 30, and Argentina is reduced 500,000 tons to 20.0 million on dry conditions.

Projected 2021/22 world consumption is raised 3.0 million tons to 789.6 million. Most of the higher consumption is for feed and residual use, led by China, increasing by 1.0 million tons to 36.0 million. Projected 2021/22 global trade is raised 1.5 million tons to 199.7 million as higher exports by Australia and India more than offset reduced exports for Canada. Projected 2021/22 world ending stocks are increased 4.2 million tons to 283.2 million with India, EU, and Canada accounting for most of the increase, although global stocks remain below last year.

**COARSE GRAINS:** This month's 2021/22 U.S. corn outlook is for larger supplies, increased feed and residual use, greater exports, and higher ending stocks. Projected beginning stocks for 2021/22 are 70 million bushels higher based on a lower use forecast for 2020/21, with reductions in corn used for ethanol and exports. Corn production for 2021/22 is forecast at 15.0 billion bushels, up 246 million from last month on increases to harvested area and yield. The national average yield is forecast at 176.3 bushels per acre, up 1.7 bushels, while harvested area for grain is forecast at 85.1 million acres, up 0.6 million. Total U.S. corn use for 2021/22 is up 150 million bushels to 14.8 billion. Feed and residual use is raised 75 million bushels based mostly

on a larger crop and lower expected prices. Exports for 2021/22 are up 75 million bushels to 2.5 billion. With supply rising more than use, ending stocks are increased 166 million bushels to 1.4 billion. The season-average corn price received by producers is lowered 30 cents to \$5.45 per bushel.

This month's 2021/22 foreign coarse grain outlook is for larger production, greater trade, and increased stocks relative to last month. Foreign corn production is forecast higher relative to last month with increases for China and Argentina more than offsetting reductions for Russia and Serbia. China corn production is raised with a boost in yield prospects, based mostly on near to above normal rainfall in the key Northeast provinces of Heilongjiang, Jilin, Inner Mongolia, and Liaoning. Argentina corn production is raised based on expectations of higher area. Foreign barley production is virtually unchanged, as increases for Australia, Ukraine, and the EU are essentially offset by declines for Canada and Russia.

For China, corn feed and residual use for 2020/21 is lowered based on indicated soybean meal equivalent protein consumption and expanded use of alternative energy feedstuffs such as barley and sorghum. For 2021/22, feed and residual use is raised based mostly on a larger crop and lower expected internal market prices. Food, seed and industrial use is lowered for 2020/21 and 2021/22 based on a reduction in the expected amount of corn used for ethanol and corn product exports. Despite a forecast increase in corn production, imports are unchanged for 2021/22 as the gap between China's domestic and international corn prices is expected to persist, particularly in the feed deficit South.

Major global coarse grain trade changes for 2021/22 include larger corn exports for Argentina, with partly offsetting reductions for Serbia and Russia. Corn imports are raised for Canada and Mexico but are reduced for Vietnam. For 2020/21, for the local marketing year beginning March 2021 corn exports are lowered for Brazil but raised for Argentina. Foreign corn ending stocks for 2021/22 are raised 8.8 million tons to 261.9 million, mostly reflecting an increase for China.

**RICE:** The outlook for 2021/22 U.S. rice this month is for reduced supplies, lower domestic use, unchanged exports, and smaller ending stocks. Supplies are reduced mostly on smaller production, as NASS lowered 2021/22 rice production by 6.9 million cwt to 190.5 million on decreased harvested area more than offsetting a higher yield. The average all rice yield is up 79 pounds per acre to 7,623 pounds, which is the third highest on record. Long-grain production is reduced 5.8 million cwt to 144.2 million, and combined medium- and short-grain production is lowered 1.0 million cwt to 46.3 million. Total domestic and residual use is lowered by 4.0 million cwt to 147.0 million on the smaller crop size. All rice ending stocks are decreased by 3.1 million cwt to 34.2 million, down 22 percent from last year. The season-average farm price for all rice is raised \$0.30 per cwt to \$14.80 with increases for both long-grain and medium- and short-grain.

The 2021/22 global outlook is for increased supplies, lower consumption, increased trade, and higher ending stocks. Supplies are raised by 9.5 million tons to 693.9 million, primarily the result of a multi-year upward stocks revisions for India with a corresponding reduction for India's consumption. India's production is also raised 1.0 million tons higher to 122.0 million on increased harvested area, which would be its second largest crop on record. World 2021/22 consumption is lowered by 2.2 million tons to 512.1 million, primarily on lower consumption by India although global consumption remains at a record. Global 2021/22 trade is raised 0.9 million tons to 48.5 million, mostly on increased exports by India on greater exportable supplies. Projected 2021/22 world ending stocks are increased by 11.7 million tons to 181.9 million, mainly on the cumulative effect of a multi-year upward revisions of India's stocks.

**OILSEEDS:** U.S. soybean supply and use changes for 2021/22 include higher beginning stocks, production, exports, ending stocks, and lower crush. Higher beginning stocks reflect a lower crush forecast for 2020/21. Soybean production is projected at 4.4 billion bushels, up 35 million with lower harvested area more than offset by a higher yield forecast of 50.6 bushels per acre. Harvested area is down 0.3 million from the August forecast. Soybean crush is reduced 25 million bushels reflecting a lower forecast for domestic soybean meal disappearance. The soybean export forecast is raised 35 million bushels on increased supplies and lower prices. Ending stocks are projected at 185 million bushels, up 30 million from last month. Other changes this month include lower peanut and higher cottonseed production.

Soybean and soybean meal prices for 2021/22 are reduced from the previous forecasts. The U.S. season-average soybean price is forecast at \$12.90 per bushel, down 80 cents. The soybean meal price is forecast at \$360 per short ton, down 25 dollars. The soybean oil price forecast is unchanged at 65 cents per pound.

The 2021/22 foreign oilseed supply and demand forecasts include higher beginning stocks and lower production, exports, and crush. Foreign oilseed production is lowered 1.5 million tons to 499.8 million mainly on lower canola production for Canada and the EU. Partly offsetting is higher canola output for Australia and higher peanut production for India. Canada's canola crop is lowered 2.0 million tons to 14 million, reflecting recent government reports.

Lower canola supplies for Canada leads to lower exports of the oilseed and products to the EU, China, and the United States. Lower global rapeseed supply is offset by increased soybean beginning stocks, mainly driven by higher-than-expected 2020/21 imports for China. Higher beginning stocks for China and higher U.S. ending stocks account for most of the global 2021/22 soybean ending stocks increase, which are raised 2.7 million tons to 98.9 million. Another notable oilseed change includes higher soybean meal imports for India as the government allows shipments of soybean meal made from genetically modified soybeans through October 31.

**SUGAR:** U.S. beet sugar production for 2021/22 is increased by 123,841 short tons, raw value (STRV) to 5,201,683. NASS sugarbeet yield and area harvested forecasts in the September *Crop Production* report imply national sugarbeet production of 34.612 million tons, an increase of 2.7 percent relative to last month. Assuming average recovery, shrink, and recovery from desugared molasses, 2021/22 crop year production is forecast at 5,112,075 STRV, up from 4,988,235 last month. Adjustments made for expected August-September production in 2021 and 2022 plus sugar from imported sugarbeets from Canada yields the fiscal year 2021/22 production projection. Cane sugar production in Florida is decreased by 10,000 STRV to 2,005,000 on processor reporting. There are no changes to production in Louisiana as neither NASS nor the processors made any adjustments related to Hurricane Ida's impact as damage assessments are still underway.

Monthly high-tier tariff sugar imports covering the period July 2020 through May 2021 have now been revised by the U.S. Bureau of the Census and the changes are incorporated into USDA's Sweetener Market Data (SMD). Implied sugar *WASDE* changes from last month are for an increase in 2019/20 sugar imports of 22,379 STRV to 4,165,219 and an increase of that same amount for deliveries for human consumption to 12,246,183 STRV.

On August 24, 2021, the USDA increased the 2020/21 raw sugar TRQ by 90,100 metric tons, raw value (MTRV) and also extended the TRQ entry period through October 31, 2021. With the increase, the overall 2020/21 raw sugar TRQ is 1,207,295 MTRV. On August 26, 2021, USTR provided notice of country allocations of the raw sugar TRQ increase. The USDA estimates that 245,160 MTRV of the total raw sugar TRQ will not enter in September but 177,160 MTRV of that

amount will enter in October. This implies a raw sugar TRQ shortfall of 68,000 MTRV or 74,957 STRV. On August 26, 2021, the Commerce Department at the request of USDA increased the Mexico 2020/21 Export Limit by 17,527 STRV of Additional U.S. Needs Sugar of a polarity of less than 99.5 degrees. This sugar is meant to be entered on or before September 30. The USDA increased re-export imports for 2020/21 by 70,000 STRV to 315,000 on the pace to date. Total imports for 2020/21 are now estimated at 3,169,134 STRV, just down slightly from last month. On September 13, 2021, the USDA is to announce in the Federal Register the 2021/22 raw sugar TRQ at 1,117,195 MTRV and the refined sugar TRQ at 222,000 MTRV.

Imports for 2021/22 are projected at 3,211,813 STRV, an increase of 75,872 over last month. Changes include an increase in sugar TRQ entries of 415,747 STRV as detailed above and in high-tier tariff imports of 25,000, now totaling 75,000. Imports from Mexico are reduced by 364,875 STRV to 1,083,900. The raw sugar shortfall for 2021/22 is unchanged at 99,208 STRV. Deliveries for human consumption for 2020/21 are increased by 75,000 STRV to 12,200,000 on the strong pace of Direct Consumption Imports (that is, imports by entities that do not report to SMD). This estimate is carried over to the deliveries' projection for 2021/22. Ending stocks for 2021/22 are projected at 1,665,593 STRV, which is marginally lower than last month, and the implied ending stocks-to-use ratio is at 13.5 percent.

**LIVESTOCK, POULTRY, AND DAIRY:** The forecast for 2021 total red meat and poultry production is lowered from last month. Beef production is reduced from the previous month as lower expected steer and heifer slaughter and lighter carcass weights more than offset higher cow slaughter. The pork production forecast is reduced on lower expected second-half hog slaughter. The broiler production forecast is raised on recent hatchery and slaughter data while the turkey production forecast is reduced. The egg production forecast is raised slightly. For 2022, the total red meat and poultry forecast is reduced from the previous month. The beef production forecast is reduced from last month on lower expected fed cattle slaughter and lighter carcass weights. Pork production is unchanged. Broiler and turkey production forecasts are raised on higher expected prices and lower expected feed costs. The 2022 egg production forecast is reduced.

For 2021, the beef import forecast is raised reflecting recent trade data; the export forecast is also raised on strong global demand from key trading partners; no changes are made to the 2022 forecasts. The pork export forecast for 2021 is reduced on recent trade data and expected slower demand growth from Asia; no change is made to the 2022 forecast. Broiler export forecasts are reduced slightly for both 2021 and 2022. The 2021 turkey export forecast is reduced slightly from last month.

Fed cattle prices are raised for 2021 on current price strength and firm demand. The 2022 price forecast is also raised. The 2021 hog price forecast is raised on lower expected production. Broiler and turkey price forecasts are raised for 2021 and 2022 on demand strength.

Milk production forecasts for 2021 and 2022 are reduced from last month on smaller dairy cow numbers and lower milk per cow. For 2021, the fat basis import forecast is unchanged from the previous month, while the fat basis export forecast is raised on strong sales of cheese and butter and milk fat. The skim-solids basis import forecast for 2021 is unchanged from last month, but the export forecast is raised on firm global demand for skim milk powder (SMP), cheese, and whey. For 2022, the fat basis imports are raised on strong demand for imported cheese, while the fat basis export forecast is raised as U.S. butter is expected to remain competitive in international markets. No change is made to the 2022 skim-solids basis import forecast;

however, skim-solids basis exports are raised from last month on continued strong global demand for SMP and whey.

For 2021 and 2022, butter, cheese, nonfat dry milk (NDM) price forecasts are raised on improving demand and lower production. The whey price forecast is unchanged for both years. The 2021 and 2022 Class III and Class IV price forecasts are raised from last month on higher dairy product prices. The 2021 all milk price is forecast higher at \$18.15 per cwt. The all milk price forecast for 2022 is \$18.40 per cwt.

**COTTON:** Beginning stocks are slightly lower than last month in the 2021/22 U.S. cotton estimates, but a much larger increase in production means that both exports and ending stocks are higher than estimated in August. U.S. cotton production is forecast at 18.5 million bales, up 1.2 million bales despite a 4 percent decline in harvested area, largely due to increased projected yields in Texas. With both world trade and U.S. supplies higher this month, U.S. exports are 500,000 bales higher and ending stocks are 700,000 bales higher. A higher season-average farm price for upland cotton is also expected, up 4 cents per pound from last month to 84 cents.

World 2021/22 cotton ending stocks are 540,000 bales lower this month as a 1.4-million-bale world consumption increase spread over 2021/22 and the year before more than offsets a 750,000-bale increase in 2021/22 world production. Consumption is projected higher in both years for Pakistan, Bangladesh, Brazil, and several smaller countries. Turkey's consumption was also increased 100,000 bales for 2021/22, and Vietnam's lowered by the same amount due to recent problems with COVID-19. World 2021/22 production is higher this month as increases for the United States, Australia, and Argentina offset declines in India, Greece, and several countries in West Africa's Franc Zone. World trade in 2021/22 is still projected down from the previous year's record 48.5 million bales, but is projected 500,000 bales higher than in August, at 46.8 million bales.

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**In 2021, the WASDE report will be released on Oct 12, Nov 9, and Dec 9.**

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**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/	2019/20		2677.14	3487.78	448.52	2671.84	815.94
	2020/21 (Est.)		2709.24	3525.18	476.44	2730.09	795.09
	2021/22 (Proj.)	Aug Sep	2768.76 2785.11	3546.08 3580.20	491.01 497.10	2785.87 2791.32	760.21 788.88
Wheat	2019/20		763.58	1045.64	194.33	748.03	297.61
	2020/21 (Est.)		775.83	1073.44	199.59	780.87	292.56
	2021/22 (Proj.)	Aug Sep	776.91 780.28	1065.74 1072.84	198.23 199.74	786.67 789.63	279.06 283.22
Coarse Grains 5/	2019/20		1415.27	1767.24	210.82	1430.66	336.58
	2020/21 (Est.)		1427.18	1763.76	228.35	1447.20	316.56
	2021/22 (Proj.)	Aug Sep	1484.40 1496.89	1795.95 1813.44	245.10 248.84	1484.94 1489.63	311.01 323.82
Rice, milled	2019/20		498.29	674.90	43.38	493.15	181.75
	2020/21 (Est.)		506.23	687.99	48.50	502.02	185.97
	2021/22 (Proj.)	Aug Sep	507.45 507.95	684.40 693.91	47.67 48.53	514.25 512.07	170.14 181.85
<b>United States</b>							
Total Grains 4/	2019/20		417.89	516.29	79.82	355.75	80.73
	2020/21 (Est.)		431.48	518.51	107.28	354.25	56.98
	2021/22 (Proj.)	Aug Sep	440.73 447.90	503.41 511.98	95.96 97.93	355.65 358.01	51.80 56.04
Wheat	2019/20		52.58	84.79	26.37	30.44	27.99
	2020/21 (Est.)		49.69	80.40	26.99	30.45	22.97
	2021/22 (Proj.)	Aug Sep	46.18 46.18	73.09 72.82	23.81 23.81	32.22 32.28	17.05 16.73
Coarse Grains 5/	2019/20		359.43	423.01	50.46	320.73	51.83
	2020/21 (Est.)		374.57	428.89	77.32	318.95	32.63
	2021/22 (Proj.)	Aug Sep	388.28 395.67	421.45 430.52	69.26 71.23	318.64 321.07	33.56 38.23
Rice, milled	2019/20		5.88	8.49	2.99	4.59	0.91
	2020/21 (Est.)		7.23	9.22	2.98	4.85	1.39
	2021/22 (Proj.)	Aug Sep	6.27 6.05	8.87 8.64	2.89 2.89	4.79 4.67	1.18 1.09

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).



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**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/	2019/20	2,259.25	2,971.49	368.71	2,316.09	735.21	
	2020/21 (Est.)	2,277.76	3,006.67	369.16	2,375.84	738.11	
	2021/22 (Proj.)	Aug	2,328.03	3,042.67	395.05	2,430.22	708.41
		Sep	2,337.21	3,068.22	399.18	2,433.31	732.84
Wheat	2019/20	711.00	960.85	167.96	717.60	269.62	
	2020/21 (Est.)	726.14	993.03	172.61	750.42	269.60	
	2021/22 (Proj.)	Aug	730.73	992.64	174.42	754.45	262.01
		Sep	734.10	1,000.02	175.92	757.35	266.49
Coarse Grains 5/	2019/20	1,055.84	1,344.23	160.36	1,109.94	284.75	
	2020/21 (Est.)	1,052.61	1,334.87	151.03	1,128.26	283.93	
	2021/22 (Proj.)	Aug	1,096.12	1,374.50	175.85	1,166.31	277.45
		Sep	1,101.22	1,382.93	177.61	1,168.56	285.59
Rice, milled	2019/20	492.41	666.41	40.39	488.56	180.84	
	2020/21 (Est.)	499.01	678.77	45.52	497.17	184.58	
	2021/22 (Proj.)	Aug	501.18	675.53	44.78	509.46	168.96
		Sep	501.90	685.27	45.64	507.40	180.76

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	2019/20	121.40	201.50	41.23	102.81	98.22	
	2020/21 (Est.)	112.39	210.62	48.48	119.64	91.30	
	2021/22 (Proj.)	Aug	118.84	210.62	46.25	123.33	87.23
		Sep	119.59	210.89	46.76	124.14	86.68
United States	2019/20	19.91	24.77	15.51	2.15	7.25	
	2020/21 (Est.)	14.61	21.86	16.37	2.35	3.15	
	2021/22 (Proj.)	Aug	17.26	20.47	15.00	2.50	3.00
		Sep	18.51	21.66	15.50	2.50	3.70
Foreign 4/	2019/20	101.49	176.73	25.72	100.66	90.97	
	2020/21 (Est.)	97.78	188.76	32.11	117.29	88.15	
	2021/22 (Proj.)	Aug	101.58	190.16	31.25	120.83	84.23
		Sep	101.08	189.23	31.26	121.64	82.98

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.

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

<b>World</b>			<b>Output</b>	<b>Total Supply</b>	<b>Trade</b>	<b>Total Use 2/</b>	<b>Ending Stocks</b>	
Oilseeds	2019/20		580.51	714.86	190.68	508.31	112.96	
	2020/21 (Est.)		601.14	714.09	191.86	511.14	109.68	
	2021/22 (Proj.)	Aug	629.52	736.09	196.41	529.47	108.85	
		Sep	629.16	738.84	196.66	528.20	111.25	
	Oilmeals	2019/20		346.27	364.13	95.38	341.55	17.00
		2020/21 (Est.)		350.55	367.54	97.00	346.89	15.02
2021/22 (Proj.)		Aug	362.38	377.43	98.71	355.55	15.50	
	Sep	361.58	376.60	98.81	355.59	15.31		
Vegetable Oils	2019/20		207.28	232.67	86.78	202.73	26.44	
	2020/21 (Est.)		207.01	233.45	85.44	206.67	23.76	
	2021/22 (Proj.)	Aug	215.86	238.47	91.45	212.88	22.03	
		Sep	215.36	239.12	91.01	212.72	22.72	
<b>United States</b>								
Oilseeds	2019/20		106.98	134.74	46.97	63.04	15.96	
	2020/21 (Est.)		122.35	139.52	62.62	62.69	6.42	
	2021/22 (Proj.)	Aug	128.15	135.91	57.10	64.34	5.80	
		Sep	129.31	137.02	57.96	63.61	6.60	
Oilmeals	2019/20		48.76	53.31	12.83	40.09	0.39	
	2020/21 (Est.)		48.40	53.15	13.04	39.63	0.48	
	2021/22 (Proj.)	Aug	49.67	54.09	13.13	40.43	0.53	
		Sep	49.07	53.40	13.13	39.74	0.53	
Vegetable Oils	2019/20		12.64	18.71	1.50	16.00	1.21	
	2020/21 (Est.)		12.73	18.78	1.02	16.51	1.24	
	2021/22 (Proj.)	Aug	13.03	19.28	0.85	17.40	1.03	
		Sep	12.88	19.12	0.76	17.32	1.04	
<b>Foreign 3/</b>								
Oilseeds	2019/20		473.53	580.13	143.71	445.27	97.00	
	2020/21 (Est.)		478.79	574.57	129.24	448.45	103.27	
	2021/22 (Proj.)	Aug	501.38	600.18	139.31	465.12	103.05	
		Sep	499.85	601.82	138.70	464.59	104.65	
Oilmeals	2019/20		297.51	310.83	82.55	301.45	16.61	
	2020/21 (Est.)		302.15	314.40	83.96	307.26	14.54	
	2021/22 (Proj.)	Aug	312.71	323.34	85.57	315.12	14.97	
		Sep	312.50	323.20	85.68	315.85	14.78	
Vegetable Oils	2019/20		194.64	213.96	85.28	186.73	25.23	
	2020/21 (Est.)		194.29	214.67	84.42	190.15	22.52	
	2021/22 (Proj.)	Aug	202.83	219.19	90.60	195.47	21.00	
		Sep	202.48	220.00	90.25	195.41	21.68	

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 - 616 - 11

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

	2019/20	2020/21 Est.	2021/22 Proj.	2021/22 Proj.
			Aug	Sep
			<i>Million Acres</i>	
Area Planted	45.5	44.3	46.7	46.7
Area Harvested	37.4	36.7	38.1	38.1
			<i>Bushels</i>	
Yield per Harvested Acre	51.7	49.7	44.5	44.5
			<i>Million Bushels</i>	
Beginning Stocks	1,080	1,028	844	844
Production	1,932	1,826	1,697	1,697
Imports	104	100	145	135
Supply, Total	3,116	2,954	2,686	2,676
Food	962	961	962	964
Seed	60	61	62	62
Feed and Residual	97	97	160	160
Domestic, Total	1,118	1,119	1,184	1,186
Exports	969	992	875	875
Use, Total	2,087	2,110	2,059	2,061
Ending Stocks	1,028	844	627	615
Avg. Farm Price (\$/bu) 2/	4.58	5.05	6.70	6.60

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

Year beginning June 1		Hard Red Winter	Hard Red Spring	Soft Red Winter	White	Durum	Total
				<i>Million</i>			
				<i>Bushels</i>			
2020/21 (Est.)	Beginning Stocks	506	280	105	95	42	1,028
	Production	659	530	266	302	69	1,826
	Supply, Total 3/	1,169	857	376	404	148	2,954
	Domestic Use	403	338	222	64	92	1,119
	Exports	340	284	69	270	28	992
	Use, Total	743	622	291	334	121	2,110
	Ending Stocks, Total	426	235	85	70	28	844
2021/22 (Proj.)	Beginning Stocks	426	235	85	70	28	844
	Production	777	305	366	214	35	1,697
	Supply, Total 3/	1,208	605	456	289	117	2,676
	Domestic Use	506	269	237	90	85	1,186
	Exports	355	225	120	160	15	875
	Use, Total	861	494	357	250	100	2,061
	Ending Stocks, Total						
		Sep					
		Aug					
		347	111	99	40	18	615
		346	116	104	40	21	627

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 - 616 - 12

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

FEED GRAINS	2019/20	2020/21 Est.	2021/22 Proj.	2021/22 Proj.
			Aug	Sep
			<i>Million Acres</i>	
Area Planted	100.6	102.3	104.1	105.6
Area Harvested	89.1	90.7	93.0	94.4
			<i>Metric Tons</i>	
Yield per Harvested Acre	4.03	4.13	4.17	4.19
			<i>Million Metric Tons</i>	
Beginning Stocks	60.5	51.8	30.8	32.6
Production	359.2	374.3	388.0	395.4
Imports	2.8	2.3	2.1	2.1
Supply, Total	422.4	428.3	420.9	430.0
Feed and Residual	154.3	149.6	145.9	148.5
Food, Seed & Industrial	165.9	168.8	172.2	172.1
Domestic, Total	320.2	318.4	318.1	320.6
Exports	50.4	77.3	69.3	71.2
Use, Total	370.6	395.7	387.4	391.8
Ending Stocks	51.8	32.6	33.5	38.2
<b>CORN</b>				
			<i>Million Acres</i>	
Area Planted	89.7	90.8	92.7	93.3
Area Harvested	81.3	82.5	84.5	85.1
			<i>Bushels</i>	
Yield per Harvested Acre	167.5	172.0	174.6	176.3
			<i>Million Bushels</i>	
Beginning Stocks	2,221	1,919	1,117	1,187
Production	13,620	14,182	14,750	14,996
Imports	42	25	25	25
Supply, Total	15,883	16,127	15,892	16,208
Feed and Residual	5,900	5,725	5,625	5,700
Food, Seed & Industrial 2/	6,286	6,470	6,625	6,625
Ethanol & by-products 3/	4,857	5,035	5,200	5,200
Domestic, Total	12,186	12,195	12,250	12,325
Exports	1,777	2,745	2,400	2,475
Use, Total	13,963	14,940	14,650	14,800
Ending Stocks	1,919	1,187	1,242	1,408
Avg. Farm Price (\$/bu) 4/	3.56	4.45	5.75	5.45

Note: Totals may not add due to rounding. 1/ Marketing year beginning September 1 for corn and sorghum; June 1 for barley and oats. 2/ For a breakout of FSI corn uses, see Feed Outlook table 5 or access the data on the Web through the Feed Grains Database at [www.ers.usda.gov/data-products/feed-grains-database.aspx](http://www.ers.usda.gov/data-products/feed-grains-database.aspx). 3/ Corn processed in ethanol plants to produce ethanol and by-products including distillers' grains, corn gluten feed, corn gluten meal, and corn oil. 4/ Marketing-year weighted average price received by farmers.

## WASDE - 616 - 13

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

SORGHUM	2019/20	2020/21 Est.	2021/22 Proj.	2021/22 Proj.
			Aug	Sep
	<i>Million Bushels</i>			
Area Planted (mil. acres)	5.3	5.9	6.5	7.3
Area Harvested (mil. acres)	4.7	5.1	5.8	6.5
Yield (bushels/acre)	73.0	73.2	70.8	69.7
Beginning Stocks	64	30	13	13
Production	341	373	409	454
Imports	0	0	0	0
Supply, Total	405	403	423	467
Feed and Residual	97	95	75	105
Food, Seed & Industrial	75	10	10	10
Total Domestic	172	105	85	115
Exports	203	285	320	320
Use, Total	375	390	405	435
Ending Stocks	30	13	18	32
Avg. Farm Price (\$/bu) 2/	3.34	5.00	6.15	5.85
<b>BARLEY</b>				
Area Planted (mil. acres)	2.8	2.6	2.6	2.6
Area Harvested (mil. acres)	2.2	2.1	2.0	2.0
Yield (bushels/acre)	77.7	77.5	51.6	51.6
Beginning Stocks	87	80	72	72
Production	172	165	106	106
Imports	7	7	7	7
Supply, Total	266	252	184	184
Feed and Residual	39	26	10	10
Food, Seed & Industrial	142	141	115	110
Total Domestic	180	167	125	120
Exports	6	14	6	9
Use, Total	186	180	131	129
Ending Stocks	80	72	53	55
Avg. Farm Price (\$/bu) 2/	4.69	4.75	5.75	5.45
<b>OATS</b>				
Area Planted (mil. acres)	2.8	3.0	2.4	2.4
Area Harvested (mil. acres)	0.8	1.0	0.7	0.7
Yield (bushels/acre)	64.3	65.1	57.4	57.4
Beginning Stocks	38	37	38	38
Production	53	65	41	41
Imports	92	85	77	74
Supply, Total	183	188	156	153
Feed and Residual	63	67	50	45
Food, Seed & Industrial	81	79	79	79
Total Domestic	144	146	129	124
Exports	2	3	2	2
Use, Total	146	150	131	126
Ending Stocks	37	38	25	27
Avg. Farm Price (\$/bu) 2/	2.82	2.77	3.60	3.60

Note: Totals may not add due to rounding. 1/ Marketing year beginning September 1 for sorghum; June 1 for barley and oats. 2/ Marketing-year weighted average price received by farmers.

## WASDE - 616 - 14

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

<b>TOTAL RICE</b>	2019/20	2020/21 Est.	2021/22 Proj. Aug	2021/22 Proj. Sep
		<i>Million Acres</i>		
Area Planted	2.55	3.04	2.66	2.54
Area Harvested	2.48	2.99	2.62	2.50
		<i>Pounds</i>		
Yield per Harvested Acre	7,473	7,619	7,544	7,623
		<i>Million Hundredweight</i>		
Beginning Stocks 2/	44.9	28.7	43.9	43.7
Production	185.1	227.6	197.4	190.5
Imports	37.3	34.1	38.0	38.0
Supply, Total	267.3	290.3	279.3	272.2
Domestic & Residual 3/	144.4	152.7	151.0	147.0
Exports, Total 4/	94.2	93.9	91.0	91.0
Rough	31.3	34.6	33.0	33.0
Milled (rough equiv.)	62.9	59.3	58.0	58.0
Use, Total	238.6	246.6	242.0	238.0
Ending Stocks	28.7	43.7	37.3	34.2
Avg. Milling Yield (%) 5/	70.00	70.00	70.00	70.00
Avg. Farm Price (\$/cwt) 6/	13.60	13.70	14.50	14.80
<b>LONG-GRAIN RICE</b>				
Harvested Acres (mil.)	1.73	2.30		
Yield (pounds/acre)	7,261	7,422		
Beginning Stocks	32.6	16.9	31.8	29.7
Imports	29.8	27.4	30.0	30.0
Production	125.6	170.9	150.0	144.2
Supply, Total 7/	188.0	215.1	211.8	203.9
Domestic & Residual 3/	106.3	120.3	118.0	115.0
Exports 8/	64.8	65.1	65.0	65.0
Use, Total	171.1	185.4	183.0	180.0
Ending Stocks	16.9	29.7	28.8	23.9
Avg. Farm Price (\$/cwt) 6/	12.00	12.60	12.90	13.00
<b>MEDIUM &amp; SHORT-GRAIN RICE</b>				
Harvested Acres (mil.)	0.75	0.69		
Yield (pounds/acre)	7,964	8,282		
Beginning Stocks	10.2	10.7	11.1	11.5
Imports	7.6	6.7	8.0	8.0
Production	59.5	56.7	47.3	46.3
Supply, Total 7/	78.3	74.2	66.5	65.7
Domestic & Residual 3/	38.2	32.4	33.0	32.0
Exports 8/	29.4	28.8	26.0	26.0
Use, Total	67.6	61.2	59.0	58.0
Ending Stocks	10.7	11.5	7.5	7.7
Avg. Farm Price (\$/cwt) 1/ 6/ 9/	18.20	17.70	19.30	20.10
California 10/	21.60	19.70	22.00	23.00
Other States 1/	11.60	13.00	13.50	14.00

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): 2017/18-1.4; 2018/19-2.1; 2019/20-1.0. 3/ Residual includes unreported use, processing losses, and estimating errors. Use by type may not add to total rice use because of the difference in brokens between beginning and ending stocks. 4/ Includes rough rice and milled rice exports. Milled rice exports are converted to an equivalent rough basis. 5/ Expressed as a percent, i.e., the total quantity of whole kernel and broken rice produced divided by the quantity of rough rice milled. 6/ Marketing-year weighted average price received by farmers. 7/ Includes imports. 8/ Exports by type of rice are estimated. 9/ The California 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. 10/ Marketing year beginning October 1.

## WASDE - 616 - 15

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

SOYBEANS	2019/20	2020/21 Est.	2021/22 Proj. Aug	2021/22 Proj. Sep
			<i>Million Acres</i>	
Area Planted	76.1	83.1	87.6	87.2
Area Harvested	74.9	82.3	86.7	86.4
			<i>Bushels</i>	
Yield per Harvested Acre	47.4	50.2	50.0	50.6
			<i>Million Bushels</i>	
Beginning Stocks	909	525	160	175
Production	3,552	4,135	4,339	4,374
Imports	15	20	35	25
Supply, Total	4,476	4,680	4,533	4,574
Crushings	2,165	2,140	2,205	2,180
Exports	1,679	2,260	2,055	2,090
Seed	96	101	104	104
Residual	12	4	14	14
Use, Total	3,952	4,505	4,379	4,389
Ending Stocks	525	175	155	185
Avg. Farm Price (\$/bu) 2/	8.57	10.90	13.70	12.90
<b>SOYBEAN OIL</b>				
			<i>Million Pounds</i>	
Beginning Stocks	1,775	1,853	1,793	1,858
Production 4/	24,911	24,980	25,710	25,420
Imports	320	265	600	450
Supply, Total	27,006	27,098	28,103	27,728
Domestic Disappearance	22,317	23,525	25,200	25,000
Biofuel 3/	8,658	8,800	11,500	11,000
Food, Feed & other Industrial	13,659	14,725	13,700	14,000
Exports	2,837	1,715	1,450	1,250
Use, Total	25,154	25,240	26,650	26,250
Ending stocks	1,853	1,858	1,453	1,478
Avg. Price (c/lb) 2/	29.65	57.25	65.00	65.00
<b>SOYBEAN MEAL</b>				
			<i>Thousand Short Tons</i>	
Beginning Stocks	402	341	450	450
Production 4/	51,100	50,659	52,050	51,400
Imports	639	825	450	450
Supply, Total	52,142	51,825	52,950	52,300
Domestic Disappearance	37,967	37,275	38,250	37,600
Exports	13,834	14,100	14,200	14,200
Use, Total	51,801	51,375	52,450	51,800
Ending Stocks	341	450	500	500
Avg. Price (\$/s.t.) 2/	299.50	395.00	385.00	360.00

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 soybean oil used for biofuels as reported by the U.S. Energy Information Administration. 4/ Based on an October year crush of 2,135 million bushels for 2020/21 and 2,180 million bushels for 2021/22.

## WASDE - 616 - 16

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

	2019/20	2020/21 Est.	2021/22 Proj. Aug	2021/22 Proj. Sep
	<i>1,000 Short Tons, Raw Value</i>			
Beginning Stocks	1,783	1,618	1,753	1,632
Production 2/	8,149	9,202	9,048	9,162
Beet Sugar	4,351	5,031	5,078	5,202
Cane Sugar	3,798	4,171	3,970	3,960
Florida	2,106	2,089	2,015	2,005
Louisiana	1,566	1,949	1,825	1,825
Texas	126	134	130	130
Imports	4,165	3,169	3,136	3,212
TRQ 3/	2,152	1,693	1,387	1,803
Other Program 4/	432	315	250	250
Other 5/	1,581	1,161	1,499	1,159
Mexico	1,376	981	1,449	1,084
Total Supply	14,097	13,989	13,937	14,006
Exports	61	52	35	35
Deliveries	12,344	12,305	12,230	12,305
Food	12,246	12,200	12,125	12,200
Other 6/	98	105	105	105
Miscellaneous	74	0	0	0
Total Use	12,479	12,357	12,265	12,340
Ending Stocks	1,618	1,632	1,672	1,666
Stocks to Use Ratio	13.0	13.2	13.6	13.5

1/ Fiscal years beginning Oct 1. Data and projections correspond to category components from "Sweetener Market Data" (SMD). 2/ Production projections for 2020/21 and 2021/22 are based on Crop Production and/or processor projections/industry data and/or sugar ICEC analysis where appropriate. 3/ For 2020/21, WTO raw sugar TRQ shortfall (75) and for 2021/22 (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 2019/20 (206), 2020/21 (180), and 2021/22 (75). 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: 2019/20 -- 298; estimated 2020/21 -- 347; projected 2021/22 -- 358.

## 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>						
<b>Sugar</b>	2020/21 Est.	Aug	858	5,715	105	4,405	1,357	916
		Sep	858	5,715	75	4,390	1,345	913
2021/22 Proj.		Aug	916	5,809	85	4,397	1,497	916
		Sep	913	5,809	55	4,382	1,482	913

1/ HFCS consumption by Mexico (1,000 metric tons, dry basis): 2019/20 = 1,388; Estimated 2020/21 = 1,325; Projected 2021/22 = 1,300. Estimated Oct-July 2020/21 = 1,096; Estimated Oct-July 2019/20 = 1,158. 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: 2020/21 (427 est = 392 dom.+35 import); 2021/22 (427 proj = 392 dom.+35 import). Statistical Adjustments: 2020/21 (0), 2021/22 (0).



## WASDE - 616 - 17

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

	2019/20	2020/21 Est.	2021/22 Proj. Aug	2021/22 Proj. Sep
Area		<i>Million Acres</i>		
Planted	13.74	12.09	11.72	11.19
Harvested	11.50	8.28	10.36	9.92
		<i>Pounds</i>		
Yield per Harvested Acre	831	847	800	895
		<i>Million 480 Pound Bales</i>		
Beginning Stocks	4.85	7.25	3.20	3.15
Production	19.91	14.61	17.26	18.51
Imports	0.00	0.00	0.00	0.00
Supply, Total	24.77	21.86	20.47	21.66
Domestic Use	2.15	2.35	2.50	2.50
Exports, Total	15.51	16.37	15.00	15.50
Use, Total	17.66	18.72	17.50	18.00
Unaccounted 2/	-0.15	-0.01	-0.03	-0.04
Ending Stocks	7.25	3.15	3.00	3.70
Avg. Farm Price 3/	59.6	66.5	80.0	84.0

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

## WASDE - 616 - 18

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

2019/20	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	282.06	763.58	187.40	138.99	748.03	194.33	297.61
World Less China	143.97	629.98	182.03	119.99	622.03	193.28	147.59
United States	29.39	52.58	2.83	2.63	30.44	26.37	27.99
Total Foreign	252.67	711.00	184.58	136.36	717.60	167.96	269.62
Major Exporters 4/	37.35	308.45	7.55	73.41	179.61	141.82	31.92
Argentina	1.74	19.78	0.01	0.05	6.35	12.79	2.39
Australia	4.44	14.48	0.89	4.50	8.00	9.14	2.68
Canada	6.04	32.67	0.68	4.16	9.26	24.63	5.50
European Union 5/	15.80	138.74	5.55	45.50	107.70	39.77	12.62
Russia	7.78	73.61	0.33	17.00	40.00	34.49	7.23
Ukraine	1.56	29.17	0.09	2.20	8.30	21.02	1.50
Major Importers 6/	180.01	202.54	122.00	37.09	297.92	13.21	193.43
Bangladesh	1.26	1.20	6.80	0.30	7.50	0.00	1.76
Brazil	1.06	5.20	7.03	0.50	12.10	0.43	0.76
China	138.09	133.60	5.38	19.00	126.00	1.05	150.02
Japan	1.08	1.10	5.68	0.65	6.37	0.29	1.21
N. Africa 7/	15.54	18.40	27.74	1.85	46.25	1.07	14.36
Nigeria	0.20	0.06	5.34	0.05	4.90	0.40	0.30
Sel. Mideast 8/	12.06	22.20	17.71	3.60	38.47	0.78	12.71
Southeast Asia 9/	5.95	0.00	26.46	7.94	25.38	1.13	5.90
Selected Other							
India	16.99	103.60	0.02	6.00	95.40	0.51	24.70
Kazakhstan	1.71	11.45	0.58	1.30	6.10	6.99	0.66
United Kingdom	1.91	15.60	1.75	7.43	14.93	1.62	2.70
<b>2020/21 Est.</b>							
World 3/	297.61	775.83	194.51	157.58	780.87	199.59	292.56
World Less China	147.59	641.58	183.90	117.58	630.87	198.83	148.45
United States	27.99	49.69	2.73	2.65	30.45	26.99	22.97
Total Foreign	269.62	726.14	191.79	154.93	750.42	172.61	269.60
Major Exporters 4/	31.92	322.54	6.67	72.57	179.42	144.89	36.82
Argentina	2.39	17.65	0.01	0.05	6.35	10.50	3.19
Australia	2.68	33.00	0.20	5.00	8.50	23.00	4.38
Canada	5.50	35.18	0.56	3.92	9.12	26.42	5.71
European Union 5/	12.62	125.94	5.37	42.00	104.25	29.62	10.07
Russia	7.23	85.35	0.40	19.00	42.50	38.50	11.98
Ukraine	1.50	25.42	0.13	2.60	8.70	16.85	1.51
Major Importers 6/	193.43	202.74	124.84	57.38	324.55	12.55	183.90
Bangladesh	1.76	1.18	7.15	0.45	7.95	0.00	2.14
Brazil	0.76	6.25	6.50	0.40	12.05	0.95	0.51
China	150.02	134.25	10.62	40.00	150.00	0.76	144.12
Japan	1.21	0.99	5.49	0.65	6.35	0.30	1.04
N. Africa 7/	14.36	16.60	28.42	1.75	46.92	0.89	11.57
Nigeria	0.30	0.06	6.59	0.05	5.55	0.60	0.79
Sel. Mideast 8/	12.71	22.18	17.85	3.59	39.51	0.52	12.71
Southeast Asia 9/	5.90	0.00	25.53	7.09	24.87	1.14	5.42
Selected Other							
India	24.70	107.86	0.02	6.50	102.28	2.50	27.80
Kazakhstan	0.66	14.26	0.80	1.45	6.25	8.00	1.47
United Kingdom	2.70	9.66	3.22	6.07	13.67	0.45	1.46

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 - 616 - 19

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

<b>2021/22 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Aug	288.83	776.91	196.42	157.37	786.67	198.23	279.06
	Sep	292.56	780.28	197.05	159.22	789.63	199.74	283.22
World Less China	Aug	144.21	640.91	186.42	122.37	638.67	197.23	137.44
	Sep	148.45	643.38	187.05	123.22	640.63	198.74	142.20
United States	Aug	22.97	46.18	3.95	4.35	32.22	23.81	17.05
	Sep	22.97	46.18	3.67	4.35	32.28	23.81	16.73
Total Foreign	Aug	265.86	730.73	192.47	153.02	754.45	174.42	262.01
	Sep	269.60	734.10	193.38	154.86	757.35	175.92	266.49
Major Exporters 4/	Aug	33.38	318.60	6.90	73.65	180.35	146.50	32.04
	Sep	36.82	319.00	6.90	73.85	180.55	147.00	35.18
Argentina	Aug	2.52	20.50	0.00	0.05	6.45	13.50	3.08
	Sep	3.19	20.00	0.00	0.05	6.45	13.50	3.24
Australia	Aug	4.38	30.00	0.20	4.50	8.00	22.00	4.58
	Sep	4.38	31.50	0.20	4.70	8.20	23.00	4.88
Canada	Aug	3.83	24.00	0.70	2.80	8.00	17.50	3.03
	Sep	5.71	23.00	0.70	2.80	8.00	17.00	4.41
European Union 5/	Aug	9.07	138.60	5.40	46.00	108.50	35.00	9.57
	Sep	10.07	139.00	5.40	46.00	108.50	35.00	10.97
Russia	Aug	11.98	72.50	0.50	17.00	40.00	35.00	9.98
	Sep	11.98	72.50	0.50	17.00	40.00	35.00	9.98
Ukraine	Aug	1.60	33.00	0.10	3.30	9.40	23.50	1.80
	Sep	1.51	33.00	0.10	3.30	9.40	23.50	1.71
Major Importers 6/	Aug	184.65	207.51	126.51	52.94	325.01	12.75	180.92
	Sep	183.90	208.41	127.41	54.09	326.31	12.85	180.57
Bangladesh	Aug	1.99	1.13	6.90	0.35	8.05	0.00	1.97
	Sep	2.14	1.13	7.20	0.50	8.25	0.00	2.22
Brazil	Aug	0.51	7.70	6.50	0.80	12.60	1.30	0.81
	Sep	0.51	7.70	6.50	0.80	12.60	1.30	0.81
China	Aug	144.62	136.00	10.00	35.00	148.00	1.00	141.62
	Sep	144.12	136.90	10.00	36.00	149.00	1.00	141.02
Japan	Aug	1.05	0.96	5.70	0.63	6.30	0.30	1.11
	Sep	1.04	0.96	5.70	0.63	6.30	0.30	1.10
N. Africa 7/	Aug	11.56	21.55	27.95	1.95	47.70	1.01	12.36
	Sep	11.57	21.55	27.95	1.95	47.70	1.01	12.36
Nigeria	Aug	0.70	0.06	5.60	0.05	5.65	0.40	0.31
	Sep	0.79	0.06	5.80	0.05	5.75	0.50	0.39
Sel. Mideast 8/	Aug	13.36	20.49	19.11	3.67	39.81	0.49	12.66
	Sep	12.71	20.49	19.51	3.67	39.81	0.49	12.41
Southeast Asia 9/	Aug	5.29	0.00	25.75	7.00	24.95	1.16	4.93
	Sep	5.42	0.00	25.75	7.00	24.95	1.16	5.06
Selected Other								
India	Aug	27.10	108.00	0.03	7.00	105.00	2.70	27.43
	Sep	27.80	109.52	0.03	7.00	105.00	3.50	28.85
Kazakhstan	Aug	1.34	12.50	0.50	1.30	6.05	7.20	1.09
	Sep	1.47	12.50	0.80	1.50	6.30	7.20	1.27
United Kingdom	Aug	1.46	15.00	2.00	7.70	15.70	0.70	2.06
	Sep	1.46	15.00	2.00	7.70	15.70	0.70	2.06

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 - 616 - 20

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

2019/20	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	351.97	1,415.27	204.92	882.97	1,430.66	210.81	336.58
World Less China	141.58	1,147.09	187.44	682.15	1,135.59	210.77	135.63
United States	60.47	359.43	3.11	154.52	320.73	50.45	51.83
Total Foreign	291.50	1,055.84	201.81	728.44	1,109.94	160.36	284.75
Major Exporters 4/	19.62	307.86	4.58	134.33	179.24	128.59	24.23
Argentina	3.62	58.13	0.02	12.12	17.78	39.32	4.68
Australia	2.43	11.90	0.01	5.61	7.57	3.87	2.89
Brazil	5.67	105.82	2.31	61.71	72.84	35.23	5.72
Canada	3.29	28.61	1.92	17.23	24.93	4.91	3.98
Russia	1.22	40.50	0.18	22.29	31.39	8.63	1.87
Ukraine	2.04	46.55	0.03	8.89	11.89	34.08	2.65
Major Importers 5/	37.34	248.23	142.37	292.94	375.02	15.98	36.94
European Union 6/	14.51	152.74	19.42	119.65	158.63	13.65	14.39
Japan	1.75	0.23	17.63	13.91	17.87	0.00	1.74
Mexico	5.78	32.10	17.60	30.83	50.31	1.03	4.14
N. Afr & Mideast 7/	7.39	33.22	41.65	64.98	73.45	0.69	8.12
Saudi Arabia	1.70	0.20	11.22	11.05	11.40	0.00	1.72
Southeast Asia 8/	3.38	29.40	18.20	38.50	46.55	0.61	3.82
South Korea	1.86	0.28	11.98	9.55	12.09	0.00	2.02
Selected Other							
China	210.40	268.18	17.48	200.82	295.07	0.04	200.94
<b>2020/21 Est.</b>							
World 3/	336.58	1,427.18	232.08	905.23	1,447.20	228.35	316.56
World Less China	135.63	1,159.16	186.18	685.18	1,135.80	228.33	113.11
United States	51.83	374.57	2.50	149.77	318.95	77.32	32.63
Total Foreign	284.75	1,052.61	229.58	755.46	1,128.26	151.03	283.93
Major Exporters 4/	24.23	293.43	6.33	134.65	180.15	121.33	22.51
Argentina	4.68	58.55	0.01	12.23	17.86	42.11	3.26
Australia	2.89	16.45	0.00	5.78	7.74	8.68	2.92
Brazil	5.72	89.96	4.10	61.52	72.56	22.03	5.21
Canada	3.98	29.64	2.01	16.93	24.68	7.23	3.73
Russia	1.87	41.40	0.09	21.57	31.14	10.24	1.98
Ukraine	2.65	39.59	0.07	9.35	12.50	27.85	1.96
Major Importers 5/	36.94	250.74	137.12	294.30	376.20	13.29	35.31
European Union 6/	14.39	154.04	15.36	120.44	159.29	11.01	13.49
Japan	1.74	0.23	16.94	13.34	17.22	0.00	1.69
Mexico	4.14	31.96	17.04	29.83	49.32	0.73	3.09
N. Afr & Mideast 7/	8.12	33.57	37.67	62.82	71.03	0.67	7.66
Saudi Arabia	1.72	0.19	11.21	11.15	11.51	0.00	1.62
Southeast Asia 8/	3.82	30.45	22.83	43.05	51.41	0.89	4.81
South Korea	2.02	0.22	11.59	9.14	11.64	0.00	2.19
Selected Other							
China	200.94	268.02	45.90	220.05	311.40	0.02	203.44

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, South Africa, and Ukraine. 5/ 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 - 616 - 21

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

<b>2021/22 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Aug	311.55	1,484.40	230.88	916.92	1,484.94	245.10	311.01
	Sep	316.56	1,496.89	232.51	923.09	1,489.63	248.84	323.82
World Less China	Aug	112.51	1,209.00	185.18	688.42	1,163.64	245.05	112.22
	Sep	113.11	1,216.49	186.81	691.19	1,167.93	248.79	116.02
United States	Aug	30.85	388.28	2.32	146.09	318.64	69.26	33.56
	Sep	32.63	395.67	2.22	148.62	321.07	71.23	38.23
Total Foreign	Aug	280.70	1,096.12	228.56	770.84	1,166.31	175.85	277.45
	Sep	283.93	1,101.22	230.29	774.47	1,168.56	177.61	285.59
Major Exporters 4/	Aug	23.72	333.43	4.71	140.69	187.25	148.85	25.76
	Sep	22.51	333.70	5.68	140.55	186.51	150.58	24.80
Argentina	Aug	3.06	60.77	0.01	12.95	18.62	41.71	3.52
	Sep	3.26	62.78	0.01	12.95	18.62	43.71	3.72
Australia	Aug	3.67	14.70	0.00	6.61	8.67	7.38	2.32
	Sep	2.92	15.70	0.00	6.46	8.52	7.98	2.12
Brazil	Aug	5.21	122.02	2.40	65.59	77.73	43.03	8.88
	Sep	5.21	122.02	2.40	65.59	77.73	43.03	8.88
Canada	Aug	4.01	26.15	2.11	16.30	23.60	5.46	3.21
	Sep	3.73	24.87	3.11	17.24	24.54	4.56	2.62
Russia	Aug	2.37	41.90	0.10	22.85	32.40	10.15	1.82
	Sep	1.98	39.90	0.10	21.70	30.65	9.98	1.35
Ukraine	Aug	1.76	50.32	0.03	9.01	12.20	37.93	1.97
	Sep	1.96	50.82	0.03	9.21	12.40	38.13	2.27
Major Importers 5/	Aug	35.33	248.11	137.99	293.61	376.20	13.11	32.12
	Sep	35.31	248.21	138.81	294.01	376.70	13.41	32.23
European Union 6/	Aug	13.52	153.45	16.39	119.23	158.20	11.15	14.01
	Sep	13.49	153.65	16.41	119.03	158.00	11.45	14.11
Japan	Aug	1.69	0.20	17.24	13.78	17.72	0.00	1.41
	Sep	1.69	0.20	17.24	13.78	17.72	0.00	1.41
Mexico	Aug	3.06	33.75	17.00	30.61	50.09	0.70	3.02
	Sep	3.09	33.75	17.50	30.81	50.29	0.70	3.35
N. Afr & Mideast 7/	Aug	7.65	30.30	39.21	61.72	70.39	0.42	6.36
	Sep	7.66	30.30	39.41	61.92	70.59	0.42	6.36
Saudi Arabia	Aug	1.62	0.20	11.21	11.26	11.61	0.00	1.42
	Sep	1.62	0.20	11.21	11.26	11.61	0.00	1.42
Southeast Asia 8/	Aug	4.83	29.91	20.85	43.05	51.45	0.85	3.29
	Sep	4.81	29.81	20.95	43.25	51.75	0.85	2.98
South Korea	Aug	2.19	0.22	11.61	9.55	12.06	0.00	1.97
	Sep	2.19	0.22	11.61	9.55	12.06	0.00	1.97
Selected Other								
China	Aug	199.03	275.40	45.70	228.50	321.30	0.05	198.78
	Sep	203.44	280.40	45.70	231.90	321.70	0.05	207.79

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, South Africa, and Ukraine. 5/ 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 - 616 - 22

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

<b>2019/20</b>	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	322.60	1,118.66	167.61	715.92	1,135.17	172.40	306.09
World Less China	112.42	857.88	160.03	522.92	857.17	172.39	105.56
United States	56.41	345.96	1.06	149.86	309.55	45.13	48.76
Total Foreign	266.19	772.70	166.54	566.06	825.63	127.27	257.33
Major Exporters 4/	9.97	219.01	1.73	88.40	110.40	107.03	13.27
Argentina	2.37	51.00	0.00	9.50	13.50	36.25	3.62
Brazil	5.31	102.00	1.65	58.50	68.50	35.23	5.23
Russia	0.38	14.28	0.05	8.80	9.80	4.07	0.83
South Africa	1.02	15.84	0.00	6.40	12.20	2.55	2.12
Ukraine	0.89	35.89	0.03	5.20	6.40	28.93	1.48
Major Importers 5/	22.24	129.30	93.95	163.05	217.45	7.04	21.01
Egypt	1.81	6.40	10.43	14.40	16.90	0.01	1.73
European Union 6/	7.64	66.74	17.38	59.00	78.80	5.39	7.58
Japan	1.45	0.00	15.89	12.40	15.95	0.00	1.39
Mexico	5.16	26.66	16.53	25.60	43.80	1.03	3.52
Southeast Asia 7/	3.37	29.35	17.26	37.70	45.55	0.61	3.81
South Korea	1.84	0.08	11.88	9.50	11.80	0.00	2.00
Selected Other							0.00
Canada	1.98	13.40	1.84	8.64	13.96	0.71	2.56
China	210.18	260.78	7.58	193.00	278.00	0.01	200.53
<b>2020/21 Est.</b>							
World 3/	306.09	1,117.11	185.10	725.41	1,136.72	179.59	286.48
World Less China	105.56	856.44	159.10	522.41	851.72	179.58	84.30
United States	48.76	360.25	0.64	145.42	309.77	69.73	30.15
Total Foreign	257.33	756.86	184.46	579.99	826.95	109.86	256.33
Major Exporters 4/	13.27	197.17	3.57	90.30	112.40	90.10	11.51
Argentina	3.62	50.00	0.01	10.00	14.00	37.50	2.12
Brazil	5.23	86.00	3.50	58.00	68.00	22.00	4.73
Russia	0.83	13.87	0.04	9.00	10.10	3.80	0.84
South Africa	2.12	17.00	0.00	7.20	13.00	3.20	2.92
Ukraine	1.48	30.30	0.02	6.10	7.30	23.60	0.90
Major Importers 5/	21.01	128.43	92.72	162.55	217.05	4.90	20.21
Egypt	1.73	6.40	10.00	14.10	16.60	0.01	1.52
European Union 6/	7.58	64.47	14.00	56.10	75.80	3.30	6.94
Japan	1.39	0.00	15.40	11.90	15.40	0.00	1.39
Mexico	3.52	27.00	16.50	25.50	43.70	0.70	2.62
Southeast Asia 7/	3.81	30.40	20.92	41.35	49.45	0.89	4.80
South Korea	2.00	0.08	11.50	9.10	11.40	0.00	2.18
Selected Other							0.00
Canada	2.56	13.56	1.70	8.80	14.00	1.53	2.29
China	200.53	260.67	26.00	203.00	285.00	0.01	202.19

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, European Union, Japan, Mexico, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 616 - 23

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

<b>2021/22 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total 2/	Exports	Ending Stocks
World 3/	Aug	280.75	1,186.12	184.61	743.89	1,182.24	197.85	284.63
	Sep	286.48	1,197.77	185.95	749.24	1,186.62	201.27	297.63
World Less China	Aug	82.58	918.12	158.61	532.89	888.24	197.83	86.48
	Sep	84.30	924.77	159.95	535.24	892.62	201.25	90.46
United States	Aug	28.37	374.68	0.64	142.88	311.16	60.96	31.56
	Sep	30.15	380.93	0.64	144.79	313.07	62.87	35.77
Total Foreign	Aug	252.38	811.44	183.97	601.01	871.07	136.89	253.08
	Sep	256.33	816.84	185.31	604.45	873.55	138.41	261.85
Major Exporters 4/	Aug	11.60	241.50	1.77	96.00	119.40	119.20	16.27
	Sep	11.51	242.50	1.77	95.40	118.70	121.00	16.08
Argentina	Aug	1.92	51.00	0.01	10.50	14.50	36.00	2.43
	Sep	2.12	53.00	0.01	10.50	14.50	38.00	2.63
Brazil	Aug	4.73	118.00	1.70	62.00	73.00	43.00	8.43
	Sep	4.73	118.00	1.70	62.00	73.00	43.00	8.43
Russia	Aug	0.94	16.50	0.05	10.60	11.80	5.00	0.69
	Sep	0.84	15.50	0.05	10.00	11.10	4.80	0.49
South Africa	Aug	3.12	17.00	0.00	7.30	13.30	3.20	3.62
	Sep	2.92	17.00	0.00	7.30	13.30	3.20	3.42
Ukraine	Aug	0.89	39.00	0.02	5.60	6.80	32.00	1.11
	Sep	0.90	39.00	0.02	5.60	6.80	32.00	1.11
Major Importers 5/	Aug	20.23	129.92	92.10	164.00	218.80	5.35	18.10
	Sep	20.21	129.82	92.40	164.20	219.00	5.35	18.08
Egypt	Aug	1.52	6.40	10.00	14.10	16.60	0.01	1.32
	Sep	1.52	6.40	10.00	14.10	16.60	0.01	1.32
European Union 6/	Aug	6.94	65.50	15.00	56.50	76.30	3.80	7.34
	Sep	6.94	65.50	15.00	56.50	76.30	3.80	7.34
Japan	Aug	1.39	0.00	15.60	12.30	15.85	0.00	1.14
	Sep	1.39	0.00	15.60	12.30	15.85	0.00	1.14
Mexico	Aug	2.62	28.00	16.50	25.80	44.00	0.70	2.42
	Sep	2.62	28.00	17.00	26.00	44.20	0.70	2.72
Southeast Asia 7/	Aug	4.82	29.86	19.10	41.40	49.65	0.85	3.28
	Sep	4.80	29.76	18.90	41.40	49.65	0.85	2.97
South Korea	Aug	2.18	0.08	11.50	9.50	11.80	0.00	1.95
	Sep	2.18	0.08	11.50	9.50	11.80	0.00	1.95
Selected Other								
	Canada	Aug	2.32	13.60	2.00	9.60	14.80	1.00
	Sep	2.29	13.60	3.00	10.60	15.80	1.00	2.09
China	Aug	198.18	268.00	26.00	211.00	294.00	0.02	198.16
	Sep	202.19	273.00	26.00	214.00	294.00	0.02	207.17

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, European Union, Japan, Mexico, Southeast Asia, and South Korea. 6/ Trade excludes intra-trade. 7/ Indonesia, Malaysia, Philippines, Thailand, and Vietnam.

## WASDE - 616 - 24

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

<b>2019/20</b>	Beginning Stocks	Production	Imports	Total /2 Domestic	Exports	Ending Stocks
World 3/	176.61	498.29	42.32	493.15	43.38	181.75
World Less China	61.61	351.56	39.72	347.92	40.78	65.25
United States	1.42	5.88	1.19	4.59	2.99	0.91
Total Foreign	175.19	492.41	41.14	488.56	40.39	180.84
Major Exporters 4/	36.69	183.69	0.66	149.33	30.48	41.22
Burma	1.06	12.65	0.00	10.40	2.30	1.01
India	29.50	118.87	0.00	101.98	12.49	33.90
Pakistan	0.95	7.41	0.01	3.40	3.82	1.15
Thailand	4.08	17.66	0.25	12.30	5.71	3.98
Vietnam	1.10	27.10	0.40	21.25	6.17	1.18
Major Importers 5/	127.82	239.80	13.97	249.85	3.18	128.55
China	115.00	146.73	2.60	145.23	2.60	116.50
European Union 6/	1.19	1.99	2.00	3.39	0.53	1.26
Indonesia	4.06	34.70	0.55	36.00	0.00	3.31
Nigeria	1.22	5.04	1.40	6.85	0.00	0.81
Philippines	3.52	11.93	2.45	14.30	0.00	3.60
Sel. Mideast 7/	0.89	2.34	3.97	5.98	0.00	1.22
Selected Other						0.00
Brazil	0.25	7.60	0.87	7.30	1.22	0.21
C. Amer & Carib 8/	0.58	1.59	1.86	3.39	0.04	0.61
Egypt	0.95	4.30	0.30	4.30	0.02	1.23
Japan	2.05	7.61	0.71	8.35	0.03	1.98
Mexico	0.15	0.18	0.80	0.94	0.02	0.18
South Korea	1.09	3.74	0.45	4.10	0.06	1.14

**2020/21 Est.**

World 3/	181.75	506.23	45.85	502.02	48.50	185.97
World Less China	65.25	357.93	41.65	351.74	46.28	69.47
United States	0.91	7.23	1.08	4.85	2.98	1.39
Total Foreign	180.84	499.01	44.76	497.17	45.52	184.58
Major Exporters 4/	41.22	189.32	1.41	150.72	36.85	44.38
Burma	1.01	12.60	0.00	10.55	1.85	1.21
India	33.90	122.27	0.00	102.67	19.00	34.50
Pakistan	1.15	8.18	0.00	3.60	4.10	1.64
Thailand	3.98	18.83	0.20	12.70	5.60	4.71
Vietnam	1.18	27.44	1.20	21.20	6.30	2.32
Major Importers 5/	128.55	240.73	16.77	255.13	2.75	128.17
China	116.50	148.30	4.20	150.28	2.22	116.50
European Union 6/	1.26	1.95	1.80	3.40	0.50	1.11
Indonesia	3.31	35.30	0.60	35.80	0.00	3.41
Nigeria	0.81	4.89	1.90	6.90	0.00	0.70
Philippines	3.60	12.42	2.10	14.45	0.00	3.66
Sel. Mideast 7/	1.22	2.31	3.60	6.00	0.00	1.12
Selected Other						0.00
Brazil	0.21	8.00	0.70	7.45	0.85	0.61
C. Amer & Carib 8/	0.61	1.61	1.78	3.39	0.03	0.57
Egypt	1.23	4.00	0.35	4.30	0.01	1.28
Japan	1.98	7.57	0.69	8.25	0.08	1.90
Mexico	0.18	0.21	0.80	0.96	0.02	0.21
South Korea	1.14	3.51	0.45	4.00	0.06	1.04

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 - 616 - 25

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

<b>2021/22 Proj.</b>		<b>Beginning Stocks</b>	<b>Production</b>	<b>Imports</b>	<b>Total /2 Domestic</b>	<b>Exports</b>	<b>Ending Stocks</b>
World 3/	Aug	176.95	507.45	45.65	514.25	47.67	170.14
	Sep	185.97	507.95	45.86	512.07	48.53	181.85
World Less China	Aug	60.45	358.45	42.05	358.55	45.27	59.14
	Sep	69.47	358.95	42.26	356.37	46.13	70.85
United States	Aug	1.40	6.27	1.21	4.79	2.89	1.18
	Sep	1.39	6.05	1.21	4.67	2.89	1.09
Total Foreign	Aug	175.55	501.18	44.44	509.46	44.78	168.96
	Sep	184.58	501.90	44.65	507.40	45.64	180.76
Major Exporters 4/	Aug	35.53	188.60	0.71	156.60	35.20	33.03
	Sep	44.38	189.60	0.71	153.80	36.05	44.83
Burma	Aug	1.21	12.80	0.00	10.70	2.00	1.32
	Sep	1.21	12.80	0.00	10.70	2.00	1.32
India	Aug	25.90	121.00	0.00	108.00	16.00	22.90
	Sep	34.50	122.00	0.00	105.00	17.00	34.50
Pakistan	Aug	1.59	8.20	0.01	3.70	4.30	1.79
	Sep	1.64	8.20	0.01	3.80	4.15	1.89
Thailand	Aug	4.51	19.50	0.20	12.90	6.50	4.81
	Sep	4.71	19.50	0.20	13.00	6.50	4.91
Vietnam	Aug	2.32	27.10	0.50	21.30	6.40	2.22
	Sep	2.32	27.10	0.50	21.30	6.40	2.22
Major Importers 5/	Aug	128.22	243.24	16.15	261.07	2.97	123.57
	Sep	128.17	243.24	16.25	261.17	2.97	123.53
China	Aug	116.50	149.00	3.60	155.70	2.40	111.00
	Sep	116.50	149.00	3.60	155.70	2.40	111.00
European Union 6/	Aug	1.11	1.89	2.00	3.45	0.55	1.00
	Sep	1.11	1.89	2.00	3.45	0.55	1.00
Indonesia	Aug	3.41	35.35	0.60	35.60	0.00	3.76
	Sep	3.41	35.35	0.60	35.60	0.00	3.76
Nigeria	Aug	0.70	5.00	2.00	6.95	0.00	0.75
	Sep	0.70	5.00	2.00	6.95	0.00	0.75
Philippines	Aug	3.71	12.30	2.10	14.50	0.00	3.61
	Sep	3.66	12.30	2.10	14.50	0.00	3.56
Sel. Mideast 7/	Aug	1.12	2.25	3.90	6.17	0.00	1.11
	Sep	1.12	2.25	3.90	6.17	0.00	1.11
Selected Other							
	Brazil	Aug	0.61	8.02	0.65	7.45	1.05
	Sep	0.61	8.02	0.65	7.45	1.05	0.78
C. Amer & Carib 8/	Aug	0.61	1.62	1.93	3.46	0.02	0.68
	Sep	0.57	1.65	1.91	3.46	0.02	0.65
Egypt	Aug	1.16	3.45	0.60	4.30	0.02	0.89
	Sep	1.28	2.90	0.90	4.25	0.01	0.82
Japan	Aug	1.90	7.58	0.69	8.20	0.07	1.90
	Sep	1.90	7.58	0.69	8.20	0.07	1.90
Mexico	Aug	0.21	0.22	0.80	0.97	0.01	0.25
	Sep	0.21	0.22	0.80	0.97	0.01	0.25
South Korea	Aug	1.04	3.77	0.41	3.90	0.06	1.26
	Sep	1.04	3.82	0.41	3.95	0.06	1.26

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 - 616 - 26

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

<b>2019/20</b>	Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	80.10	121.40	40.74	102.81	41.23	-0.03	98.22
World Less China	44.43	94.15	33.60	69.81	41.08	-0.03	61.33
United States	4.85	19.91	3/	2.15	15.51	-0.15	7.25
Total Foreign	75.25	101.49	40.74	100.66	25.72	0.12	90.97
Major Exporters 4/	28.35	57.81	2.92	28.18	21.23	0.02	39.64
Central Asia 5/	2.28	5.96	3/	3.92	1.78	0.00	2.55
Afr. Fr. Zone 6/	1.41	5.91	3/	0.14	4.66	0.00	2.52
S. Hemis. 7/	15.34	16.69	0.14	3.56	11.34	0.01	17.25
Australia	1.57	0.63	3/	0.04	1.36	0.00	0.80
Brazil	12.26	13.78	0.01	2.70	8.94	0.00	14.40
India	9.00	28.80	2.28	20.00	3.20	0.00	16.88
Major Importers 8/	44.93	40.62	35.44	68.84	3.19	0.10	48.87
Mexico	0.69	1.57	0.59	1.48	0.66	0.03	0.69
China	35.67	27.25	7.14	33.00	0.16	0.00	36.90
European Union 9/	0.28	2.00	0.58	0.59	1.82	0.02	0.42
Turkey	1.69	3.45	4.67	6.60	0.45	0.00	2.77
Pakistan	2.50	6.20	3.98	9.20	0.06	0.03	3.39
Indonesia	0.53	3/	2.51	2.40	0.00	0.00	0.64
Thailand	0.20	3/	0.70	0.78	0.00	0.02	0.10
Bangladesh	1.78	0.14	7.50	6.90	0.00	0.01	2.52
Vietnam	1.23	3/	6.48	6.60	0.00	0.00	1.11
<b>2020/21 Est.</b>							
World	98.22	112.39	48.91	119.64	48.48	0.11	91.30
World Less China	61.33	82.89	36.04	79.64	48.47	0.11	52.05
United States	7.25	14.61	3/	2.35	16.37	-0.01	3.15
Total Foreign	90.97	97.78	48.91	117.29	32.11	0.12	88.15
Major Exporters 4/	39.64	54.92	1.60	32.96	27.58	0.02	35.61
Central Asia 5/	2.55	5.80	0.01	4.17	1.97	0.00	2.21
Afr. Fr. Zone 6/	2.52	4.84	3/	0.14	5.05	0.00	2.17
S. Hemis. 7/	17.25	15.62	0.14	4.03	13.80	0.01	15.17
Australia	0.80	2.80	3/	0.04	1.60	0.00	1.96
Brazil	14.40	10.75	0.01	3.10	11.01	0.00	11.05
India	16.88	28.30	0.85	24.00	6.20	0.00	15.83
Major Importers 8/	48.87	39.75	45.00	80.56	3.08	0.10	49.89
Mexico	0.69	1.02	0.88	1.65	0.50	0.03	0.41
China	36.90	29.50	12.87	40.00	0.01	0.00	39.26
European Union 9/	0.42	1.68	0.57	0.61	1.92	0.01	0.13
Turkey	2.77	2.90	5.33	7.70	0.59	0.00	2.71
Pakistan	3.39	4.50	5.33	10.60	0.03	0.03	2.57
Indonesia	0.64	3/	2.31	2.50	0.01	0.00	0.45
Thailand	0.10	3/	0.60	0.57	0.00	0.03	0.11
Bangladesh	2.52	0.15	8.75	8.50	0.00	0.01	2.90
Vietnam	1.11	3/	7.28	7.30	0.00	0.00	1.09

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 - 616 - 27

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

<b>2021/22 Proj.</b>		Beginning Stocks	Production	Imports	Domestic Use	Exports	Loss /2	Ending Stocks
World	Aug	91.78	118.84	46.25	123.33	46.25	0.07	87.23
	Sep	91.30	119.59	46.76	124.14	46.76	0.07	86.68
World Less China	Aug	52.64	92.09	36.25	82.33	46.20	0.07	52.39
	Sep	52.05	92.84	36.76	83.14	46.71	0.07	51.73
United States	Aug	3.20	17.26	3/	2.50	15.00	-0.03	3.00
	Sep	3.15	18.51	3/	2.50	15.50	-0.04	3.70
Total Foreign	Aug	88.58	101.58	46.25	120.83	31.25	0.11	84.23
	Sep	88.15	101.08	46.76	121.64	31.26	0.11	82.98
Major Exporters 4/	Aug	36.07	60.32	1.78	34.58	26.95	0.02	36.61
	Sep	35.61	59.92	1.78	34.74	26.94	0.02	35.61
Central Asia 5/	Aug	2.29	5.48	0.02	4.25	1.46	0.00	2.08
	Sep	2.21	5.48	0.02	4.28	1.46	0.00	1.96
Afr. Fr. Zone 6/	Aug	2.17	6.16	3/	0.14	6.07	0.00	2.11
	Sep	2.17	5.86	3/	0.14	5.91	0.00	1.98
S. Hemis. 7/	Aug	15.50	19.23	0.16	4.08	12.98	0.01	17.83
	Sep	15.17	19.63	0.16	4.20	13.13	0.01	17.63
Australia	Aug	2.22	4.40	3/	0.04	3.50	0.00	3.08
	Sep	1.96	4.70	3/	0.04	3.60	0.00	3.03
Brazil	Aug	11.15	12.50	0.03	3.10	8.20	0.00	12.37
	Sep	11.05	12.50	0.03	3.20	8.20	0.00	12.17
India	Aug	15.88	29.00	1.00	25.50	6.00	0.00	14.38
	Sep	15.83	28.50	1.00	25.50	6.00	0.00	13.83
Major Importers 8/	Aug	49.86	38.14	42.00	82.32	2.64	0.09	44.96
	Sep	49.89	38.04	42.51	82.98	2.67	0.09	44.71
Mexico	Aug	0.41	1.05	0.90	1.65	0.30	0.03	0.39
	Sep	0.41	1.05	0.90	1.65	0.30	0.03	0.39
China	Aug	39.14	26.75	10.00	41.00	0.05	0.00	34.84
	Sep	39.26	26.75	10.00	41.00	0.05	0.00	34.96
European Union 9/	Aug	0.14	1.79	0.59	0.64	1.72	0.00	0.16
	Sep	0.13	1.69	0.60	0.63	1.65	0.00	0.14
Turkey	Aug	2.72	3.40	5.20	8.20	0.50	0.00	2.62
	Sep	2.71	3.40	5.20	8.30	0.60	0.00	2.41
Pakistan	Aug	2.74	5.00	5.60	10.60	0.05	0.03	2.67
	Sep	2.57	5.00	5.90	11.00	0.05	0.03	2.39
Indonesia	Aug	0.49	3/	2.45	2.50	0.01	0.00	0.44
	Sep	0.45	3/	2.50	2.50	0.01	0.00	0.44
Thailand	Aug	0.11	3/	0.58	0.55	0.00	0.03	0.11
	Sep	0.11	3/	0.60	0.58	0.00	0.03	0.10
Bangladesh	Aug	2.75	0.15	8.00	8.50	0.00	0.01	2.39
	Sep	2.90	0.15	8.20	8.70	0.00	0.01	2.54
Vietnam	Aug	1.09	3/	7.60	7.60	0.00	0.00	1.10
	Sep	1.09	3/	7.50	7.50	0.00	0.00	1.10

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 - 616 - 28

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

<b>2019/20</b>		Beginning Stocks	Production	Imports	Domestic Crush	Domestic Total	Exports	Ending Stocks
World 2/		114.71	339.73	164.97	312.43	358.44	165.06	95.90
World Less China		95.25	321.63	66.43	220.93	249.24	164.97	69.10
United States		24.74	96.67	0.42	58.91	61.85	45.70	14.28
Total Foreign		89.97	243.07	164.55	253.52	296.60	119.36	81.63
Major Exporters 3/		62.44	189.39	5.45	89.09	99.14	110.68	47.46
Argentina		28.89	48.80	4.88	38.77	45.87	10.00	26.70
Brazil		32.47	128.50	0.55	46.74	49.39	92.14	20.00
Paraguay		1.06	10.10	0.01	3.50	3.80	6.62	0.75
Major Importers 4/		22.07	21.76	131.88	120.06	145.92	0.34	29.45
China		19.46	18.10	98.53	91.50	109.20	0.09	26.80
European Union		1.52	2.62	14.95	15.60	17.32	0.23	1.54
Southeast Asia		0.74	0.60	9.32	4.50	9.81	0.02	0.83
Mexico		0.18	0.24	5.75	6.00	6.05	0.00	0.11
<b>2020/21 Est.</b>								
World 2/		95.90	363.27	166.71	317.99	365.06	165.74	95.08
World Less China		69.10	343.67	67.71	223.99	252.54	165.67	62.28
United States		14.28	112.55	0.54	58.24	61.10	61.51	4.76
Total Foreign		81.63	250.72	166.16	259.75	303.96	104.24	90.31
Major Exporters 3/		47.46	195.03	6.12	90.93	101.08	95.86	51.67
Argentina		26.70	46.00	5.10	40.80	48.00	5.20	24.60
Brazil		20.00	137.00	1.00	46.75	49.40	82.00	26.60
Paraguay		0.75	9.90	0.01	3.30	3.60	6.60	0.46
Major Importers 4/		29.45	23.24	132.92	123.46	150.24	0.30	35.08
China		26.80	19.60	99.00	94.00	112.53	0.08	32.80
European Union		1.54	2.58	15.00	16.10	17.82	0.20	1.09
Southeast Asia		0.83	0.58	9.67	4.81	10.19	0.02	0.87
Mexico		0.11	0.25	6.00	6.20	6.25	0.00	0.10
<b>2021/22 Proj.</b>								
World 2/	Aug	92.82	383.63	170.61	329.57	378.59	172.33	96.15
	Sep	95.08	384.42	170.94	329.35	378.37	173.17	98.89
World Less China	Aug	62.02	364.63	69.61	231.57	260.89	172.23	63.15
	Sep	62.28	365.42	69.94	231.35	260.67	173.07	63.90
United States	Aug	4.34	118.08	0.95	60.01	63.24	55.93	4.21
	Sep	4.76	119.04	0.68	59.33	62.57	56.88	5.04
Total Foreign	Aug	88.48	265.55	169.66	269.56	315.35	116.40	91.93
	Sep	90.31	265.38	170.26	270.02	315.80	116.29	93.86
Major Exporters 3/	Aug	51.87	209.10	5.37	94.53	104.83	108.38	53.12
	Sep	51.67	209.10	5.37	94.53	104.83	108.38	52.92
Argentina	Aug	25.30	52.00	4.70	43.00	50.35	6.35	25.30
	Sep	24.60	52.00	4.70	43.00	50.35	6.35	24.60
Brazil	Aug	26.10	144.00	0.65	47.70	50.35	93.00	27.40
	Sep	26.60	144.00	0.65	47.70	50.35	93.00	27.90
Paraguay	Aug	0.46	10.50	0.01	3.75	4.05	6.50	0.42
	Sep	0.46	10.50	0.01	3.75	4.05	6.50	0.42
Major Importers 4/	Aug	33.08	22.87	135.35	127.75	155.70	0.35	35.25
	Sep	35.08	22.90	135.35	127.75	155.70	0.35	37.28
China	Aug	30.80	19.00	101.00	98.00	117.70	0.10	33.00
	Sep	32.80	19.00	101.00	98.00	117.70	0.10	35.00
European Union	Aug	1.09	2.80	15.00	15.90	17.62	0.23	1.05
	Sep	1.09	2.83	15.00	15.90	17.62	0.23	1.08
Southeast Asia	Aug	0.87	0.53	9.85	4.98	10.36	0.02	0.87
	Sep	0.87	0.53	9.85	4.98	10.36	0.02	0.87
Mexico	Aug	0.10	0.30	6.20	6.40	6.45	0.00	0.15
	Sep	0.10	0.30	6.20	6.40	6.45	0.00	0.15

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 - 616 - 29

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

<b>2019/20</b>		Beginning Stocks	Production	Imports	Domestic Total	Exports	Ending Stocks
World 2/		13.92	245.22	61.98	240.76	67.68	12.67
World Less China		13.92	172.75	61.93	169.25	66.67	12.67
United States		0.37	46.36	0.58	34.44	12.55	0.31
Total Foreign		13.56	198.86	61.40	206.32	55.13	12.36
Major Exporters 3/		5.98	72.82	0.03	27.37	45.85	5.61
Argentina		2.06	29.87	0.00	3.20	27.46	1.27
Brazil		3.54	36.23	0.01	18.50	17.50	3.78
India		0.38	6.72	0.02	5.67	0.89	0.57
Major Importers 4/		2.16	22.44	37.06	58.95	1.10	1.62
European Union		0.86	12.32	16.33	28.32	0.88	0.33
Mexico		0.26	4.75	1.82	6.73	0.01	0.10
Southeast Asia 5/		1.01	3.51	17.05	20.31	0.21	1.05
China		0.00	72.47	0.05	71.51	1.01	0.00
<b>2020/21 Est.</b>							
World 2/		12.67	249.75	64.05	245.70	69.35	11.43
World Less China		12.67	175.31	63.97	172.42	68.10	11.43
United States		0.31	45.96	0.75	33.82	12.79	0.41
Total Foreign		12.36	203.80	63.31	211.88	56.56	11.02
Major Exporters 3/		5.61	75.21	0.46	28.47	47.30	5.51
Argentina		1.27	31.45	0.00	3.32	28.20	1.20
Brazil		3.78	36.24	0.02	19.10	17.10	3.83
India		0.57	7.52	0.44	6.05	2.00	0.48
Major Importers 4/		1.62	23.15	37.53	59.47	1.23	1.59
European Union		0.33	12.73	16.75	28.59	0.80	0.41
Mexico		0.10	4.90	1.88	6.75	0.01	0.12
Southeast Asia 5/		1.05	3.75	17.05	20.52	0.42	0.91
China		0.00	74.45	0.08	73.28	1.25	0.00
<b>2021/22 Proj.</b>							
World 2/	Aug	11.55	258.69	64.29	252.72	70.21	11.59
	Sep	11.43	258.46	65.24	253.00	70.58	11.54
World Less China	Aug	11.55	181.07	64.23	176.15	69.11	11.59
	Sep	11.43	180.84	65.18	176.43	69.48	11.54
United States	Aug	0.41	47.22	0.41	34.70	12.88	0.45
	Sep	0.41	46.63	0.41	34.11	12.88	0.45
Total Foreign	Aug	11.15	211.47	63.88	218.02	57.33	11.14
	Sep	11.02	211.83	64.83	218.89	57.70	11.08
Major Exporters 3/	Aug	5.61	77.88	0.05	29.64	48.20	5.70
	Sep	5.51	77.88	0.85	30.44	48.20	5.60
Argentina	Aug	1.40	33.15	0.00	3.40	29.50	1.65
	Sep	1.20	33.15	0.00	3.40	29.50	1.45
Brazil	Aug	3.73	36.97	0.02	20.00	17.00	3.72
	Sep	3.83	36.97	0.02	20.00	17.00	3.82
India	Aug	0.48	7.76	0.03	6.24	1.70	0.34
	Sep	0.48	7.76	0.83	7.04	1.70	0.34
Major Importers 4/	Aug	1.74	23.37	37.90	60.07	1.09	1.85
	Sep	1.59	23.37	37.90	60.07	1.09	1.70
European Union	Aug	0.46	12.57	17.00	28.59	0.85	0.59
	Sep	0.41	12.57	17.00	28.59	0.85	0.54
Mexico	Aug	0.12	5.06	1.93	7.00	0.01	0.09
	Sep	0.12	5.06	1.93	7.00	0.01	0.09
Southeast Asia 5/	Aug	1.01	3.88	17.17	20.79	0.24	1.04
	Sep	0.91	3.88	17.17	20.79	0.24	0.94
China	Aug	0.00	77.62	0.06	76.58	1.10	0.00
	Sep	0.00	77.62	0.06	76.58	1.10	0.00

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 - 616 - 30

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

<b>2019/20</b>		Beginning Stocks	Production	Imports	Domestic Total	Exports	Ending Stocks
World 2/		4.37	58.54	11.39	57.23	12.31	4.76
World Less China		3.87	42.14	10.39	40.14	12.15	4.11
United States		0.81	11.30	0.15	10.12	1.29	0.84
Total Foreign		3.57	47.24	11.25	47.11	11.02	3.92
Major Exporters 3/		1.07	20.33	0.55	12.42	8.12	1.41
Argentina		0.43	7.70	0.00	2.18	5.40	0.55
Brazil		0.32	9.00	0.07	7.77	1.16	0.47
European Union		0.26	2.96	0.48	2.43	0.93	0.35
Major Importers 4/		1.24	19.43	7.04	25.88	0.47	1.36
China		0.50	16.40	1.00	17.09	0.16	0.65
India		0.14	1.51	3.63	5.11	0.02	0.15
North Africa 5/		0.32	1.05	1.79	2.47	0.29	0.40
<b>2020/21 Est.</b>							
World 2/		4.76	59.74	11.67	59.66	12.18	4.33
World Less China		4.11	42.89	10.47	41.76	12.15	3.56
United States		0.84	11.33	0.12	10.67	0.78	0.84
Total Foreign		3.92	48.41	11.55	48.99	11.40	3.49
Major Exporters 3/		1.41	20.79	0.74	12.66	8.98	1.29
Argentina		0.55	8.10	0.00	2.14	6.05	0.46
Brazil		0.47	9.00	0.26	7.96	1.35	0.42
European Union		0.35	3.06	0.48	2.51	0.98	0.40
Major Importers 4/		1.36	20.16	6.91	27.03	0.19	1.20
China		0.65	16.85	1.20	17.90	0.03	0.78
India		0.15	1.69	3.60	5.28	0.02	0.15
North Africa 5/		0.40	1.09	1.46	2.61	0.15	0.19
<b>2021/22 Proj.</b>							
World 2/	Aug	4.70	61.93	12.10	61.48	12.89	4.36
	Sep	4.33	61.86	11.81	61.43	12.60	3.97
World Less China	Aug	3.95	44.37	10.93	42.92	12.74	3.59
	Sep	3.56	44.30	10.63	42.87	12.45	3.17
United States	Aug	0.81	11.66	0.27	11.43	0.66	0.66
	Sep	0.84	11.53	0.20	11.34	0.57	0.67
Total Foreign	Aug	3.89	50.27	11.83	50.05	12.23	3.70
	Sep	3.49	50.33	11.60	50.09	12.03	3.30
Major Exporters 3/	Aug	1.39	21.46	0.50	12.60	9.39	1.36
	Sep	1.29	21.46	0.53	12.85	9.19	1.24
Argentina	Aug	0.50	8.55	0.00	2.01	6.50	0.55
	Sep	0.46	8.55	0.00	2.21	6.30	0.50
Brazil	Aug	0.49	9.18	0.05	7.94	1.30	0.49
	Sep	0.42	9.18	0.08	7.99	1.30	0.39
European Union	Aug	0.40	3.02	0.45	2.61	0.95	0.32
	Sep	0.40	3.02	0.45	2.61	0.95	0.32
Major Importers 4/	Aug	1.34	21.08	7.26	27.95	0.44	1.28
	Sep	1.20	21.15	7.06	27.79	0.42	1.21
China	Aug	0.75	17.56	1.18	18.56	0.15	0.78
	Sep	0.78	17.56	1.18	18.56	0.15	0.80
India	Aug	0.20	1.75	3.73	5.45	0.02	0.21
	Sep	0.15	1.75	3.63	5.35	0.02	0.16
North Africa 5/	Aug	0.25	1.22	1.58	2.60	0.28	0.17
	Sep	0.19	1.22	1.58	2.57	0.25	0.17

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 - 616 - 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>		
2020	III	7,115	7,048	14,213	11,358	1,454	12,958	27,172	2,311	55.4	
	IV	7,069	7,515	14,633	11,047	1,451	12,630	27,263	2,371	55.6	
	Annual	27,174	28,303	55,680	44,583	5,743	50,876	106,556	9,283	223.2	
2021	I	6,895	7,291	14,235	10,893	1,390	12,410	26,645	2,306	56.8	
	II	6,957	6,668	13,673	11,231	1,399	12,770	26,443	2,304	58.1	
	III*	6,970	6,525	13,542	11,450	1,410	13,000	26,542	2,335	56.5	
	IV*	6,920	7,255	14,225	11,200	1,430	12,760	26,985	2,395	56.4	
	Annual										
	Aug Proj. Sep Proj.	27,872 27,742	27,824 27,739	55,892 55,675	44,734 44,774	5,659 5,629	50,929 50,940	106,821 106,615	9,339 9,340	228.1 227.8	
2022	I*	6,760	7,155	13,965	11,025	1,405	12,560	26,525	2,335	57.5	
	II*	6,625	6,630	13,306	11,310	1,415	12,865	26,171	2,335	58.7	
	Annual										
	Aug Proj. Sep Proj.	26,965 26,875	28,145 28,145	55,309 55,219	45,300 45,340	5,700 5,715	51,545 51,600	106,854 106,819	9,470 9,460	231.2 230.6	

\* 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>
2020	III	101.74	40.50	66.7	111.3	89.0	18.97
	IV	108.18	50.75	75.7	113.6	107.2	19.80
	Annual	108.51	43.18	73.2	106.5	112.2	18.24
2021	I	112.98	55.71	84.0	110.1	127.8	17.33
	II	120.75	80.92	104.4	117.7	94.2	18.67
	III*	124.00	78.00	106.0	129.0	119.0	17.75
	IV*	131.00	65.00	95.0	128.0	130.0	18.80
	Annual						
	Aug Proj. Sep Proj.	121.2 122.2	69.7 69.9	94.1 97.4	120.2 121.2	112.8 117.8	17.95 18.15
2022	I*	133.00	60.00	96.0	119.0	121.0	18.45
	II*	128.00	61.00	103.0	118.0	110.0	18.20
	Annual						
	Aug Proj. Sep Proj.	126 128	56 56	93 96	118 119	114 117	17.85 18.40

\*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 - 616 - 32

## U.S. Meats Supply and Use

		Beginning Production		Imports	Total Supply	Exports	Ending Stocks	Total Use	Per Capita
		stocks	1/						
<i>Million Pounds /4</i>									
Beef	2020	642	27,244	3,342	31,227	2,951	716	27,561	58.4
	2021 Proj. Aug	716	27,942	3,117	31,774	3,384	640	27,750	58.6
	Sep	716	27,812	3,142	31,669	3,414	640	27,615	58.3
	2022 Proj. Aug	640	27,035	3,150	30,825	3,270	640	26,915	56.7
	Sep	640	26,945	3,150	30,735	3,270	640	26,825	56.5
Pork	2020	646	28,318	904	29,869	7,280	467	22,121	52.0
	2021 Proj. Aug	467	27,839	992	29,299	7,409	460	21,430	50.2
	Sep	467	27,754	1,042	29,264	7,334	460	21,470	50.3
	2022 Proj. Aug	460	28,160	990	29,610	7,300	505	21,805	50.9
	Sep	460	28,160	1,005	29,625	7,300	505	21,820	50.9
Total Red Meat 5/	2020	1,330	55,774	4,547	61,651	10,235	1,217	50,199	111.8
	2021 Proj. Aug	1,217	55,986	4,410	61,614	10,797	1,132	49,685	110.1
	Sep	1,217	55,769	4,504	61,491	10,752	1,130	49,609	110.0
	2022 Proj. Aug	1,132	55,404	4,433	60,969	10,576	1,181	49,212	108.9
	Sep	1,130	55,314	4,468	60,912	10,575	1,180	49,157	108.8
Broiler	2020	937	44,106	145	45,188	7,367	830	36,991	96.2
	2021 Proj. Aug	830	44,255	143	45,228	7,506	775	36,947	95.8
	Sep	830	44,295	143	45,268	7,466	775	37,027	96.0
	2022 Proj. Aug	775	44,815	136	45,726	7,450	795	37,481	96.8
	Sep	775	44,855	136	45,766	7,410	795	37,561	97.0
Turkey	2020	233	5,743	21	5,997	571	223	5,203	15.8
	2021 Proj. Aug	223	5,659	22	5,904	573	200	5,131	15.5
	Sep	223	5,629	22	5,874	568	200	5,106	15.4
	2022 Proj. Aug	200	5,700	21	5,921	580	225	5,116	15.4
	Sep	200	5,715	21	5,936	580	225	5,131	15.4
Total Poultry 6/	2020	1,175	50,398	167	51,740	8,013	1,057	42,670	113.4
	2021 Proj. Aug	1,057	50,450	168	51,675	8,133	980	42,562	112.7
	Sep	1,057	50,460	168	51,685	8,084	980	42,621	112.8
	2022 Proj. Aug	980	51,060	160	52,200	8,086	1,025	43,089	113.7
	Sep	980	51,114	160	52,254	8,046	1,025	43,183	113.9
Red Meat & Poultry	2020	2,504	106,172	4,715	113,391	18,248	2,274	92,869	225.3
	2021 Proj. Aug	2,274	106,436	4,578	113,288	18,930	2,112	92,246	222.8
	Sep	2,274	106,230	4,672	113,176	18,836	2,110	92,230	222.8
	2022 Proj. Aug	2,112	106,463	4,593	113,168	18,662	2,206	92,300	222.5
	Sep	2,110	106,428	4,628	113,166	18,621	2,205	92,340	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 - 616 - 33

## U.S. Egg Supply and Use

	2019	2020	2021 Proj. Aug	2021 Proj. Sep	2022 Proj. Aug	2022 Proj. Sep
Eggs	<i>Million Dozen</i>					
Supply						
Beginning Stocks	22.7	31.6	24.5	24.5	21.0	21.0
Production	9,441.8	9,283.4	9,338.6	9,339.6	9,470.0	9,460.0
Imports	14.6	15.5	17.7	17.7	16.0	16.0
Total Supply	9,479.1	9,330.5	9,380.8	9,381.8	9,507.0	9,497.0
Use						
Exports	333.8	344.0	390.0	398.0	365.0	370.0
Hatching Use	1,081.2	1,078.5	1,116.8	1,116.7	1,140.0	1,140.0
Ending Stocks	31.6	24.5	21.0	21.0	24.0	24.0
Disappearance						
Total	8,032.5	7,883.5	7,853.0	7,846.1	7,978.0	7,963.0
Per Capita (number)	293.4	286.5	284.3	284.1	287.9	287.4

## U.S. Milk Supply and Use

	2019	2020	2021 Proj. Aug	2021 Proj. Sep	2022 Proj. Aug	2022 Proj. Sep
Milk	<i>Billion Pounds</i>					
Production	218.4	223.2	228.1	227.8	231.2	230.6
Farm Use	1.0	1.1	1.1	1.1	1.1	1.1
Fat Basis Supply						
Beg. Commercial Stocks	13.8	13.6	15.6	15.6	16.0	15.6
Marketings	217.4	222.1	227.1	226.7	230.2	229.5
Imports	6.9	6.8	6.6	6.6	6.6	6.7
Total Cml. Supply	238.1	242.5	249.3	248.9	252.7	251.8
Fat Basis Use						
Commercial Exports	9.1	9.3	11.0	11.4	10.6	10.9
Ending Commercial Stocks	13.6	15.6	16.0	15.6	15.5	15.4
CCC Donations	0.2	0.3	0.0	0.0	0.0	0.0
Domestic Commercial Use	215.2	217.4	222.2	221.9	226.6	225.5
Skim-solid Basis Supply						
Beg. Commercial Stocks	10.7	10.2	10.9	10.9	11.2	11.0
Marketings	217.4	222.1	227.1	226.7	230.2	229.5
Imports	5.8	5.6	5.8	5.8	5.5	5.5
Total Cml. Supply	233.9	237.9	243.7	243.4	246.9	246.0
Skim-solid Basis Use						
Commercial Exports	41.5	47.2	51.5	51.7	51.3	51.8
Ending Commercial Stocks	10.2	10.9	11.2	11.0	11.4	11.3
CCC Donations	0.2	0.1	0.0	0.0	0.0	0.0
Domestic Commercial Use	182.0	179.7	181.1	180.7	184.2	182.9

CCC Donations include purchases made through the USDA Trade Mitigation program. They do not include products purchased under other programs. Dairy domestic commercial use for 2020 includes additional milk marketed but not processed. Note: Totals may not add due to rounding.

## WASDE - 616 - 34

## U.S. Dairy Prices

	2019	2020	2021 Proj. Aug	2021 Proj. Sep	2022 Proj. Aug	2022 Proj. Sep
Product Prices 1/	<i>Dollars Per Pound</i>					
Cheese	1.7586	1.9236	1.635	1.640	1.630	1.655
Butter	2.2431	1.5808	1.645	1.690	1.660	1.730
Nonfat Dry Milk	1.0419	1.0417	1.205	1.225	1.210	1.270
Dry Whey	0.3799	0.3621	0.555	0.555	0.500	0.500
	<i>Dollars Per Cwt</i>					
Milk Prices 2/						
Class III	16.96	18.16	16.55	16.65	16.15	16.45
Class IV	16.30	13.49	15.15	15.55	15.30	16.05
All Milk 3/	18.65	18.24	17.95	18.15	17.85	18.40

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 - 616 - 35

## Reliability of September Projections 1/

Note: Tables on pages 35-37 present a record of the September projection and the final Estimate. Using world wheat production as an example, the "root mean square error" means that chances are 2 out of 3 that the current forecast will not be above or below the final estimate by more than 1.9 percent. Chances are 9 out of 10 (90% confidence level) that the difference will not exceed 3.3 percent. The average difference between the September projection and the final estimate is 8.7 million tons, ranging from 0.9 million to 30.7 million tons. The September projection has been below the estimate 26 times and above 14 times.

	Root mean square error	90 percent confidence interval	Differences between forecast and final estimate				
			Average	Smallest	Largest	Years	
						Below Final	Above Final
<b>WHEAT</b>	<i>Percent</i>		<i>Million Metric Tons</i>				
Production							
World	1.9	3.3	8.7	0.9	30.7	26	14
U.S.	1.9	3.2	0.9	0.0	2.5	16	24
Foreign	2.2	3.7	8.7	0.2	30.9	28	12
Exports							
World	5.9	10.0	6.6	0.3	22.0	31	9
U.S.	10.1	17.2	2.5	0.2	10.0	18	22
Foreign	7.3	12.3	6.2	0.2	21.4	30	10
Domestic Use							
World	1.8	3.0	7.8	0.2	33.8	22	18
U.S.	7.3	12.4	1.9	0.0	5.5	13	27
Foreign	1.8	3.0	7.8	0.1	33.6	26	14
Ending Stocks							
World	8.1	13.8	10.5	1.5	30.5	31	9
U.S.	14.2	24.2	2.7	0.5	12.4	23	17
Foreign	8.9	15.1	9.2	0.5	28.3	30	10
<b>COARSE GRAINS 2/</b>							
Production							
World	2.2	3.7	17.8	0.2	50.6	30	10
U.S.	4.2	7.1	8.0	0.2	26.0	25	15
Foreign	2.5	4.3	15.9	1.0	59.9	29	11
Exports							
World	7.0	11.8	6.8	0.1	25.2	29	11
U.S.	19.5	33.0	7.4	0.4	19.1	17	23
Foreign	13.5	22.9	8.0	0.7	20.9	26	14
Domestic Use							
World	1.5	2.6	12.0	0.4	39.0	23	17
U.S.	3.7	6.2	6.3	0.1	15.8	24	16
Foreign	1.8	3.0	10.8	0.4	37.8	26	14
Ending Stocks							
World	14.1	24.0	19.7	1.7	170.3	30	10
U.S.	29.3	49.7	9.0	0.1	35.8	17	23
Foreign	16.2	27.6	15.3	0.7	155.3	33	7
<b>RICE, milled</b>							
Production							
World	2.3	3.9	6.3	0.4	24.1	31	9
U.S.	4.3	7.3	0.2	0.0	0.5	22	17
Foreign	2.3	3.9	6.3	0.3	24.4	31	9
Exports							
World	9.2	15.5	1.8	0.1	6.8	28	12
U.S.	11.2	19.0	0.2	0.0	0.9	19	19
Foreign	10.3	17.4	1.8	0.1	6.8	28	12
Domestic Use							
World	1.8	3.1	4.3	0.4	22.7	31	9
U.S.	6.8	11.6	0.2	0.0	0.5	19	20
Foreign	1.8	3.1	4.3	0.2	23.1	31	9
Ending Stocks							
World	12.2	20.7	6.5	0.5	26.9	33	7
U.S.	22.4	37.9	0.2	0.0	0.9	21	19
Foreign	13.3	22.6	6.5	0.2	26.7	33	7

1/ Footnotes at end of table.

CONTINUED

## WASDE - 616 - 36

## Reliability of September Projections (Continued) 1/

	Differences between forecast and final estimate						
	Root mean square error	90 percent confidence interval	Average			Years	
				Smallest	Largest	Below Final	Above Final
<b>SOYBEANS</b>	<i>Percent</i>			<i>Million Metric Tons</i>			
Production							
World	4.5	7.7	7.1	0.4	27.4	23	17
U.S.	5.0	8.5	3.0	0.2	10.4	21	19
Foreign	7.3	12.5	6.5	0.9	29.1	18	22
Exports							
World	7.3	12.3	3.8	0.2	15.3	26	14
U.S.	12.2	20.8	3.0	0.1	9.8	24	16
Foreign	17.5	29.6	3.3	0.0	18.6	18	22
Domestic Use							
World	3.3	5.5	4.6	0.0	15.1	24	16
U.S.	4.4	7.5	1.6	0.1	4.5	25	15
Foreign	4.0	6.8	4.5	0.0	11.2	24	16
Ending Stocks							
World	17.4	29.6	5.2	0.2	24.8	22	18
U.S.	47.7	81.0	2.3	0.1	8.2	12	28
Foreign	19.4	32.9	4.8	0.0	24.7	24	15
<b>COTTON</b>	<i>Million 480-Pound Bales</i>						
Production							
World	4.7	7.9	3.2	0.1	12.6	23	17
U.S.	6.7	11.4	0.9	0.0	2.5	19	20
Foreign	5.2	8.9	2.8	0.0	11.3	25	15
Exports							
World	9.4	15.9	2.4	0.0	10.1	24	16
U.S.	20.4	34.7	1.2	0.1	3.4	22	18
Foreign	12.0	20.4	1.9	0.1	8.8	22	18
Domestic Use							
World	5.0	8.4	3.5	0.1	19.3	16	24
U.S.	10.1	17.2	0.4	0.0	1.3	17	21
Foreign	5.0	8.5	3.4	0.0	18.5	17	22
Ending Stocks							
World	14.3	24.3	5.8	0.2	16.8	27	13
U.S.	40.2	68.2	1.4	0.0	5.1	16	23
Foreign	14.7	24.9	5.3	0.2	16.8	27	13

1/ Marketing years 1981/82 through 2020/21 for grains, soybeans (U.S. only), and cotton. Final for grains, soybeans, and cotton is defined as the first November estimate following the marketing year for 1981/82 through 2019/20, and for 2020/21 the last month's estimate. 2/ Includes corn, sorghum, barley, oats, rye, millet, and mixed grain.

## WASDE - 616 - 37

## Reliability of United States September 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	4.4	7.4	300	15	885	25	15
Exports	20.3	34.4	269	46	725	17	23
Domestic Use	4.0	6.8	248	0	575	24	15
Ending Stocks	32.6	55.3	341	2	1,386	17	23
<b>SORGHUM</b>							
Production	6.0	10.2	23	0	81	17	22
Exports	31.7	53.9	42	0	150	21	18
Domestic Use	25.4	43.1	39	0	120	19	19
Ending Stocks	49.0	83.2	31	1	155	12	28
<b>BARLEY</b>							
Production	4.9	8.2	11	1	36	15	25
Exports	64.8	110.0	12	0	82	17	18
Domestic Use	9.7	16.4	22	0	72	13	25
Ending Stocks	17.7	30.0	18	0	70	19	20
<b>OATS</b>							
Production	9.6	16.3	11	0	44	6	32
Exports	95.4	161.9	1	0	8	11	14
Domestic Use	6.6	11.3	14	1	39	11	29
Ending Stocks	22.7	38.5	14	0	47	19	20
<b>SOYBEAN MEAL</b>	<i>Thousand Short Tons</i>						
Production	4.3	7.3	1,296	93	4,200	26	14
Exports	14.2	24.1	878	34	4,100	23	17
Domestic Use	3.7	6.2	789	26	3,200	24	16
Ending Stocks	39.0	66.3	52	0	368	15	14
<b>SOYBEAN OIL</b>	<i>Million Pounds</i>						
Production	4.5	7.6	600	26	2,635	25	15
Exports	34.8	59.0	453	0	1,675	21	18
Domestic Use	4.2	7.2	513	86	2,150	26	14
Ending Stocks	30.1	51.1	430	60	1,357	22	18
<b>ANIMAL PROD.</b>	<i>Million Pounds</i>						
Beef	4.0	6.8	795	32	2,486	27	12
Pork	2.9	5.0	396	5	1,356	22	17
Broilers	2.1	3.5	508	49	1,379	23	16
Turkeys	3.7	6.3	146	2	444	21	18
	<i>Million Dozen</i>						
Eggs	1.9	3.2	110	4	414	25	14
	<i>Billion Pounds</i>						
Milk	1.7	2.8	2.1	0.1	7.2	22	17

1/ See pages 35 and 36 for record of reliability for U.S. wheat, rice, soybeans, and cotton. Marketing years 1981/82 through 2020/21 for grains, soybeans, and cotton. Final for grains, soybeans, and cotton is defined as the first November estimate following the marketing year for 1981/82 through 2020/21. Calendar years 1982 through 2020 for meats, eggs, and milk. Final for animal products is defined as the latest annual production estimate published by NASS for 1982-2020.

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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 International Production Assessment Division (IPAD) of the Foreign Agricultural Service. IPAD is located at <https://ipad.fas.usda.gov/>.

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## Metric Conversion Factors

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**1 Hectare = 2.4710 Acres**

**1 Kilogram = 2.20462 Pounds**

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



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

**WASDE-616 – September 10, 2021**

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