



Missouri Annual Crop Summary



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2009 Crops, United States

Spring was abnormally wet across the South and the Midwest, ending most of the drought in the Southeast. By mid March, rivers in many Midwest states had escaped their banks. In April, cool, wet conditions throughout much of the Corn Belt delayed the start of corn planting. In May, flooding persisted from northeastern Texas to Pennsylvania, as well as parts of the Northern Plains, while several bouts of severe weather hit the eastern half of the nation. As the month ended, corn planting in the Corn Belt was complete or nearly complete in all states except Illinois and Indiana, where spring precipitation was as much as 150 percent of normal. Only 36 percent of soybeans had emerged by May 31, fifteen points behind the 5-year average.

Improved conditions in the latter part of June allowed planting to be complete or nearly complete for most crops. Winter wheat harvest began early in June and had progressed to 40 percent complete by month's end. The Midwest as a whole recorded its coolest July. Phenological development was slow for the nation's corn crop following planting delays and less than ideal growing conditions in the Corn Belt in July. Slow summer crop development resulted from cooler than normal temperatures over much of the country while precipitation in eastern Iowa and northern Missouri totaled 400 percent of normal in August.

Wet conditions in September caused significant declines in cotton conditions in Alabama, Arkansas, and Mississippi. Corn and soybean harvest began in most states toward month's end, but on September 27 overall progress lagged normal by 12 and 10 percentage points, respectively. October was the nation's wettest and third coldest in 115 years. This resulted in muddy fields, limited winter wheat seeding, slow row crop harvest and declining crop conditions in many locations. Heavy rains and wet field conditions damaged the rice crop in Arkansas, Mississippi, and Missouri. Warmer, drier weather the first two weeks of November for much of the country promoted rapid harvest and seeding of small grains. Soybean harvest was 96 percent complete by month's end. Corn harvest reached 95 percent by December 20, while cotton harvest was 94 percent complete.

Soybeans: Production in 2009 totaled 3.36 billion bushels, up 13 percent from 2008. U.S. production is the largest on record. The average yield per acre is estimated at 44.0 bushels, 4.3 bushels above last year's yield. Harvested area is up 2 percent from 2008, to a record 76.4 million acres.

Corn: Production in 2009 is estimated at 13.1 billion bushels, 9 percent above last year and the largest on record. The average U.S. grain yield is estimated at 164.9 bushels per acre, 11.0 bushels above 2008 and the highest on record.

Wheat: Production totals 2.22 billion bushels in 2009, down 11 percent from 2008. Grain area is 49.9 million acres, down 10 percent from last year. The U.S. yield is 44.4 bushels per acre, a decrease of 0.5 bushels from last year.

Sorghum: Grain production in 2009 is estimated at 383 million bushels, 19 percent below 2008. Planted area is estimated at 6.63 million acres, down 20 percent from last year, and area harvested for grain, at 5.52 million acres, is down 24 percent from 2008. Average grain yield, at 69.4 bushels per acre, is up 4.4 bushels from last year.

Cotton: All cotton production is estimated at 12.4 million 480-pound bales, down 3 percent from 2008. The U.S. yield is estimated at 774 pounds per acre, down 39 pounds from last year. Harvested area, at 7.69 million acres, is up 2 percent from last year.

Rice: Production in 2009 is estimated at 220 million cwt, up 8 percent from 2008. Planted area is estimated at 3.14 million acres, up 5 percent from 2008. Area for harvest, at 3.10 million acres, is up 4 percent from 2008. The average yield for all U.S. rice is estimated at 7,085 pounds per acre, 239 pounds above 2008.

Hay: Production of dry hay for 2009 is estimated at 147 million tons, up 1 percent from the 2008 total. Area harvested, at 59.8 million acres, is down 1 percent from 2008. The average yield, at 2.47 tons per acre, is nearly the same as last year's yield of 2.43.

2009 Crops, Missouri

Heavy rains at the end of March lead to wet soil conditions, limiting the start of fieldwork throughout much of April. April 6th brought freezing temperatures over most of the state except for the southeast district. Warm, dry conditions toward the end of April allowed farmers to return to the fields. Corn planting was 27 percent complete by April 26, about a week behind normal. Nearly half the rice was planted but soybean and sorghum planting was just beginning, one and two weeks behind normal, respectively. Wet conditions returned the first half of May with heavy rains causing some flooding. On May 8th, severe storms caused wind damage in the south-central and east-central districts, while the northern part of the state had damaging storms the following week. The second half of the month farmers made significant planting progress between showers. Corn planting ended the month 90 percent complete 8 days behind normal, while soybean planting was 10 days behind normal. Cotton planting was about a week behind normal, with rice planting 2 weeks behind. Alfalfa and other hay cuttings were about 1 week behind normal.

Wet spring conditions forced some producers to replant corn. Very warm and dry conditions at the end of June allowed farmers to make substantial planting and wheat harvest progress. Corn silking was one week behind while wheat harvest was 58% complete, 3 days behind normal. Soybean and sorghum planting were near completion as the dry weather extended into early July. Wheat harvest was nearly complete by mid July, ahead of normal. Unseasonably cool and wetter than normal weather in July helped to improve row crop conditions. As of July 26, the good to excellent rating was 59 percent for corn and 58 percent for soybeans. Other hay at 90 percent cut and the second cutting of alfalfa at 84 percent complete were nearly a week behind. The northern 3 districts in the state received between 6.94 and 8.75 inches in August causing some localized flooding. By month's end, corn maturing was 2 weeks behind normal while soybeans turning color was 1 week behind. Rice heading and cotton opening bolls were nearly 3 weeks behind normal.

Cool temperatures and late planting considerably slowed maturation of row crops, hindering producers from taking full advantage of the dry weather through most of September into the beginning of October. As of October 4, corn harvest was 28 percent complete and rice harvest was only 13 percent complete. Heavy rainfall in October limited harvesting and wheat seeding. October rainfall averaged 10.04 inches compared to the 30 year average of 3.37 inches. By the end of the month, corn and cotton harvest were over a month behind normal, while soybeans, rice, and winter wheat seedings were

over 3 weeks behind. Warm weather with little precipitation the first half of November allowed farms to make 50 point increase in cotton and soybean harvest while rice harvest was complete. Wet weather and snow in the northwest part of the state returned the following week, before dry weather returned and harvest resumed. As of December 6, eight percent of the corn, 3 percent of the soybeans, 6 percent of cotton and sorghum, were still in the field; meanwhile, wheat seedings were 78 percent complete, a month behind normal, indicating a much lower planted acreage for 2010 than normal. By December 20, 2 percent of the corn was left to harvest while the cotton harvest was nearly completed.

Missouri soybean production totaled 231 million bushels in 2009, up 21 percent from the 2008 crop and the largest on record. Farmers harvested 5.30 million of the 5.35 million acres planted, up 5 percent from 2008. The state yield averaged 43.5 bushels per acre, 5.5 bushels above last year. Value of production was estimated at \$2.17 billion, up 16 percent from last year.

Corn production in **Missouri** during 2009 totaled 447 million bushels, 17 percent above a year earlier. Yields averaged 153 bushels per acre, up 9 bushels from the 2008 yield and the second highest on record. Corn for grain was produced from 2.92 million harvested acres out of 3.00 million planted acres. Silage was cut on 50,000 acres, producing 800,000 tons. Value of the crop was \$1.63 billion, up 4 percent from 2008.

Missouri produced 34.3 million bushels of **winter wheat** in 2009, down 38 percent from 2008. Farmers planted 780 thousand acres, harvesting 730 thousand for grain. Yield of 47 bushels per acre was 1 bushels below 2008. The crop was valued at \$148 million, 50 percent below last year.

Missouri grain sorghum production totaled 3.70 million bushels, down 52 percent from 2008 and the lowest production since 1955. Planted acreage, at 50,000 is the lowest on record. Sorghum for grain was harvested on 43,000 acres. Average yield for the State was 86 bushels per acre, down 11 bushel per acre from 2008. Value of production was estimated at \$12.6 million, down 54 percent from 2008.

Missouri cotton production was estimated at 520,000 bales, 26 percent below 2008. The state yield is estimated at 960 pounds per acre, 146 pounds lower than last year. Planted acreage of 272,000 acres is 11 percent below last year. Farmers harvested 260,000 acres.

Missouri rice production during 2009 totaled 13.4 million cwt, 2 percent above last year's crop. Yield was

estimated 6,710 pounds per acre, 90 pounds per acre higher than last year. Farmers harvested 200,000 of the 202,000 planted acres. Value of production came in at \$176 million, 3 percent below 2008.

Commercial **potato** production in **Missouri** for 2009 totaled 2.06 million cwt, 67 percent above the 2008 production. The 7,100 acres harvested produced a yield of 290 cwt, up 100 cwt from last year. There were 7,300 acres planted, 100 acres above a year earlier. Value of production was \$21.6 million, up 137 percent from a year earlier.

Missouri oat production in 2009 totaled 495,000 bushels, 50 percent larger than the 2008. There were 15,000 planted acres with 9,000 harvested for grain. The State oat yield averaged 55 bushels per acre, the same as the 2008 average. The value of the crop was estimated at \$1.34 million, up 4 percent from last year.

Hay production in **Missouri** totaled 8.04 million tons, 9 percent below the 2008 production. Yields averaged 2.07 tons per acre, compared with 2.10 tons per acres a year earlier. Harvested area of all hay was 3.88 million acres. The 2009 hay crop was valued at \$581 million, 30 percent below 2008.

Missouri Crop Production, 2008-2009

Crop	Unit	Acres Harvested		Yield per Acre		Production	
		2008	2009	2008	2009	2008	2009
		<i>Thousands</i>		<i>Bushels</i>		<i>Thousands</i>	
Corn for Grain	bu	2,650	2,920	144.0	153.0	381,600	446,760
Corn for Silage	ton	50	50	14.0	16.0	700	800
Sorghum for Grain	bu	80	43	97.0	86.0	7,760	3,698
Sorghum for Silage	ton	4	4	9.0	9.0	36	36
Soybeans	bu	5,030	5,300	38.0	43.5	191,140	230,550
Winter Wheat	bu	1,160	730	48.0	47.0	55,680	34,310
Oats	bu	6	9	55.0	55.0	330	495
All Rice ^{1/}	cwt	199	200	6,620	6,710	13,173	13,423
Cotton ^{2/}	lb	303	260	1,106	960	698	520
Cottonseed	ton	---	---	---	---	240	180
All Hay	ton	4,200	3,880	2.1	2.1	8,820	8,040
Alfalfa Hay	ton	350	280	3.2	3.0	1,120	840
Other Hay	ton	3,850	3,600	2.0	2.0	7,700	7,200

1/ Yield in pounds, production in hundredweight.
2/ Yield in pounds, production in 480 lb. bales.

Value of Missouri Crop Production, 2008-2009

Crop	Unit	Average Value Per Unit		Value of Production	
		2008	2009	2008	2009
		<i>Dollars</i>		<i>Thousand Dollars</i>	
Corn for Grain	bu	4.11	3.65	1,568,376	1,630,674
Grain Sorghum	cwt	6.38	6.10	27,725	12,632
Soybeans	bu	9.74	9.40	1,861,704	2,167,170
Winter Wheat	bu	5.35	4.30	297,888	147,533
Oats	bu	3.90	2.70	1,287	1,337
All Rice	cwt	13.80	13.10	181,787	175,841
All Hay	ton	103.00	78.50	834,820	581,400
Alfalfa Hay	ton	161.00	135.00	180,320	113,400
Other Hay	ton	85.00	65.00	654,500	468,000
Cotton	lb	0.470	0.574	157,469	143,270
Cottonseed	ton	255.00	170.00	61,200	30,600
Total Crops	---	---	---	5,827,076	5,471,857

United States Crop Production, 2008-2009

Crop	Unit	Acres Harvested		Yield per Acre		Production	
		2008	2009	2008	2009	2008	2009
		<i>Thousands</i>		<i>Bushels</i>		<i>Millions</i>	
Corn for Grain	bu	78,570	79,620	153.9	164.9	12,091.6	13,130.6
Corn for Silage	ton	5,965	5,605	18.7	19.3	111.6	108.2
Sorghum for Grain	bu	7,271	5,520	65.0	69.4	472.3	383.0
Sorghum for Silage	ton	408	254	13.8	14.5	5.6	3.7
Soybeans	bu	74,681	76,372	39.7	44.0	2,967.0	3,359.0
Winter Wheat	bu	39,608	34,485	47.1	44.2	1,867.3	1,522.7
Oats	bu	1,400	1,379	63.7	67.5	89.1	93.1
All Rice ^{1/}	cwt	2,976	3,103	6,846	7,085	203.7	219.9
Cotton ^{2/}	lb	7569	7,691	813	774	12.8	12.4
Cottonseed	ton	---	---	---	---	4.3	4.2
Tobacco	lb	354.5	354.1	2,258	2,325	8.0	8.2
All Hay	ton	60,152	59,755	2.4	2.5	146.3	147.4
Alfalfa Hay	ton	21,060	21,227	3.3	3.4	70.2	71.0
Other Hay	ton	39,092	38,528	2.0	2.0	76.1	76.4

^{1/} Yield in pounds, production in hundredweight.

^{2/} Yield in pounds, production in 480 lb. bales.

^{3/} Yield in pounds

Value of United States Crop Production, 2008-2009

Crop	Unit	Average Value Per Unit		Value of Production	
		2008	2009	2008	2009
		<i>Dollars</i>		<i>Million Dollars</i>	
Corn for Grain	bu	4.06	3.70	49,313	48,583
Grain Sorghum	cwt	5.72	5.90	1,631	1,242
Soybeans	bu	9.97	9.45	29,458	31,743
Winter Wheat	bu	6.57	4.70	11,936	7,060
Oats	bu	3.15	2.10	270	217
All Rice	cwt	16.80	14.30	3,603	3,146
All Hay	ton	152.00	111.00	18,639	14,990
Alfalfa Hay	ton	165.00	115.00	10,747	7,997
Other Hay	ton	118.00	101.00	7,892	6,993
Cotton	lb	0.491	0.628	3,021	3,736
Cottonseed	ton	223.00	159.00	963	666
Tobacco	lb	1.859	1.820	1,488	1,499
Total Crops	---			138,961	127,872