

Estimates of Corn Production and Yields Based on 8/18/25 Crop Conditions

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Abstract¹

This reports estimates corn yields for the 18 leading corn states and then calculates total corn production and average national corn yield using the August NASS crop acre estimates. Based on the 8/18/25 crop condition report, total corn production is estimated to be 16.8 billion bushels with a range from 16.5 billion to 17.2 billion bushels. The national corn yield is estimated to be 188.7 bu/ac with a range from 184.7 to 192.8 bu/ac. This is a 0.5 bu/ac increase from last week

Introduction

This estimate is based on the USDA estimate of crop conditions for 8/18/25 (week #33). For a full description of this procedure and model, readers are encouraged to read "[Estimates of Corn Production and Yields Based on 6/30/24 Crop Conditions](#)".

USDA/NASS released the [August Crop Production Report](#) this past week. USDA revised corn acres upward by 2% and these new acre estimates are incorporated here. For comparison, USDA/NASS is currently estimating a 188.8 bu/ac national corn yield.

Results

Figure 1 is a Likert graph of the corn crop conditions for the last 20 years in the U.S. The Likert graph is centered on the fair category to make comparisons among years easier. The number along the left-hand-side of the figure is the total of the very poor and poor categories while the number along the right-hand-side is the total of the good and excellent categories.

Figures 2, 3, and 4 show the estimated yield per harvested acre, the estimated harvested acres, and the total production for each of the 18 leading corn states. The harvested acre estimate comes directly from the USDA-NASS estimate from the August 12, 2025 Acreage Report.

Because the yield per acre from the individual states can't be summed together, the national yield per acre is calculated from the total production divided by the total harvested acres. Total U.S. corn production is calculated by adjusting the production from the 18 leading corn states upward based on the historic relationship between U.S. production and the production from the 18 leading corn states. As calculated, total U.S. corn production is estimated to be 16.83 billion bushels with a range from 16.47 billion to 17.19 billion bushels. The national corn yield is estimated to be 188.7 bu/ac with a range from 184.7 to 192.8 bu/ac.

References

Ibendahl, G. "Estimates of Corn Production and Yields Based on 6/30/2024 Crop Conditions." *farmdoc daily* (14):125, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, July 8, 2024.
<https://farmdocdaily.illinois.edu/2024/07/estimates-of-corn-production-and-yields-based-on-6-30-2024-crop-conditions.html>

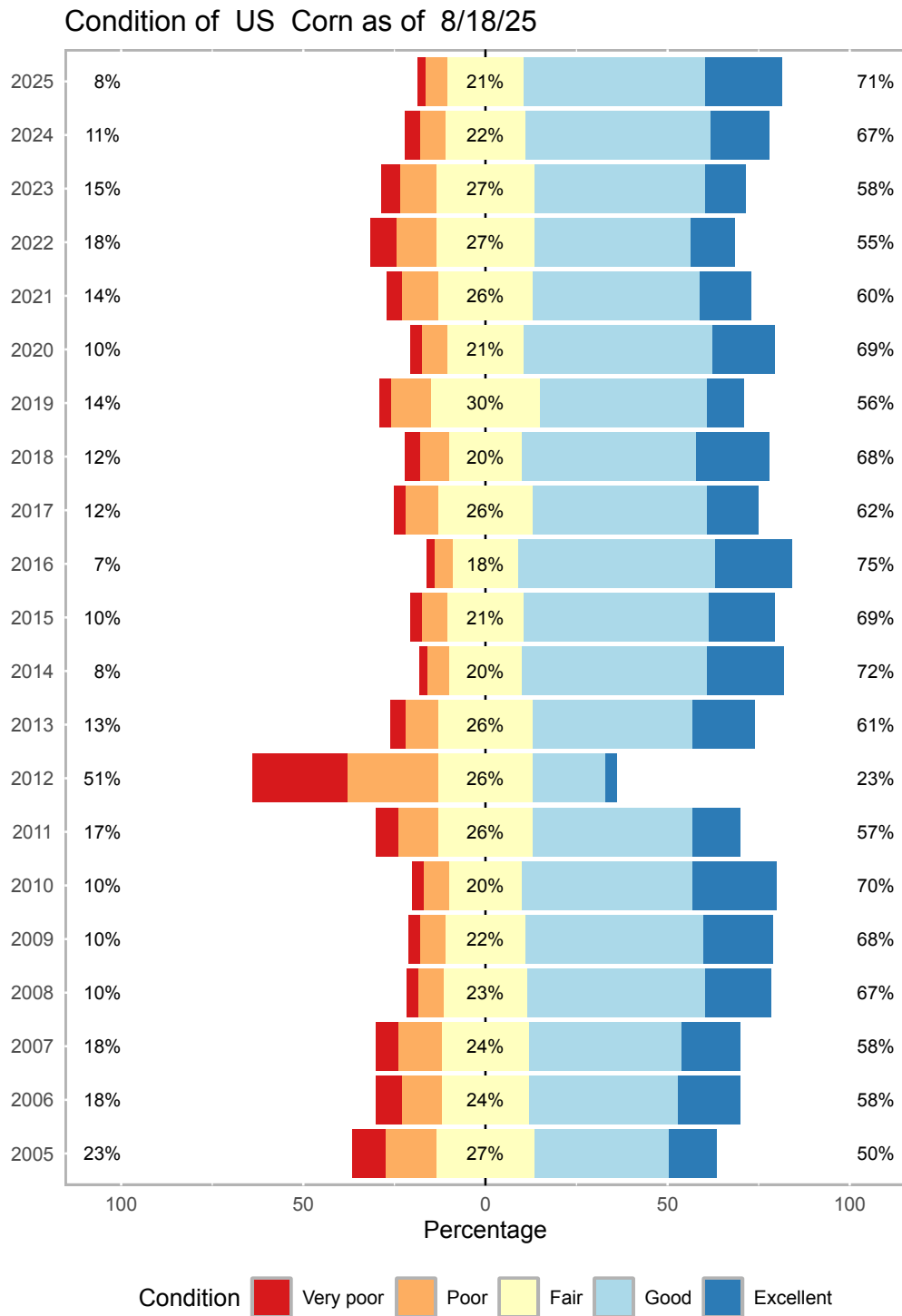


Figure 1. Likert Graph of Corn Crop Condition

Corn Yields per Acre by State - 8/18/25					
Bushels per harvested acre					
State	Last year	2025 prediction		Upper CI	R squared
		Lower CI	Predicted		
Colorado	116.0	121.4	126.0	130.5	-0.02
Illinois	217.0	212.0	216.1	220.2	0.63
Indiana	198.0	197.7	201.3	204.9	0.68
Iowa	211.0	217.4	222.7	228.1	0.55
Kansas	129.0	131.0	134.2	137.5	0.69
Kentucky	178.0	177.0	179.8	182.7	0.86
Michigan	181.0	171.6	174.0	176.5	0.56
Minnesota	174.0	194.5	198.7	202.9	0.27
Missouri	183.0	184.7	190.1	195.5	0.79
Nebraska	188.0	198.8	201.8	204.9	0.68
North_Carolina	87.0	145.6	150.1	154.5	0.83
North_Dakota	149.0	139.3	143.6	148.0	0.29
Ohio	177.0	186.8	189.6	192.4	0.78
Pennsylvania	138.0	168.2	172.3	176.4	0.74
South_Dakota	164.0	166.0	170.8	175.7	0.50
Tennessee	152.0	165.5	169.0	172.5	0.81
Texas	112.0	128.4	132.8	137.2	0.57
Wisconsin	174.0	184.3	187.8	191.4	0.47

Figure 2. Estimated Yields per Acre for 18 Leading Corn States

Corn Harvested Acres by State - 8/18/25				
1,000 acres				
State	Last year	Planted acres	2025 harvest estimate	
			NASS est	
Colorado	1,180	1,490	1,210	
Illinois	10,650	11,000	10,800	
Indiana	5,050	5,300	5,150	
Iowa	12,450	13,500	12,950	
Kansas	5,800	6,750	6,200	
Kentucky	1,280	1,530	1,420	
Michigan	1,910	2,350	1,990	
Minnesota	7,730	8,700	8,190	
Missouri	3,300	3,700	3,530	
Nebraska	9,590	10,500	10,060	
North_Carolina	815	950	885	
North_Dakota	3,640	4,600	4,270	
Ohio	3,200	3,400	3,180	
Pennsylvania	660	1,000	640	
South_Dakota	5,390	6,700	5,980	
Tennessee	660	930	870	
Texas	1,860	2,450	2,050	
Wisconsin	2,960	4,100	3,130	
sum	—	78,125	88,950	82,505

Figure 3. Estimated NASS Harvested Acres for 18 Leading Corn States

Total Corn Production by State - 8/18/25					
1,000,000 bushels					
State	Last year	2025 prediction			
		Lower CI	Predicted	Upper CI	
Colorado	137	147	152	158	
Illinois	2,311	2,290	2,334	2,378	
Indiana	1,000	1,018	1,037	1,055	
Iowa	2,627	2,816	2,885	2,953	
Kansas	748	812	832	852	
Kentucky	228	251	255	259	
Michigan	346	341	346	351	
Minnesota	1,345	1,593	1,627	1,662	
Missouri	604	652	671	690	
Nebraska	1,803	1,999	2,030	2,061	
North_Carolina	71	129	133	137	
North_Dakota	542	595	613	632	
Ohio	566	594	603	612	
Pennsylvania	91	108	110	113	
South_Dakota	884	993	1,022	1,050	
Tennessee	100	144	147	150	
Texas	208	263	272	281	
Wisconsin	515	577	588	599	
sum	—	14,127	15,322	15,659	15,995

Figure 4. Estimated Corn Production for 18 Leading Corn States

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