



Most of the State received little rainfall and experienced below average temperatures. These conditions allowed Iowa farmers 5.9 **days suitable for fieldwork** during the week ending July 21, 2024, according to the USDA, National Agricultural Statistics Service. Field activities included harvesting oats for grain, cutting and baling hay, and applying fungicides.

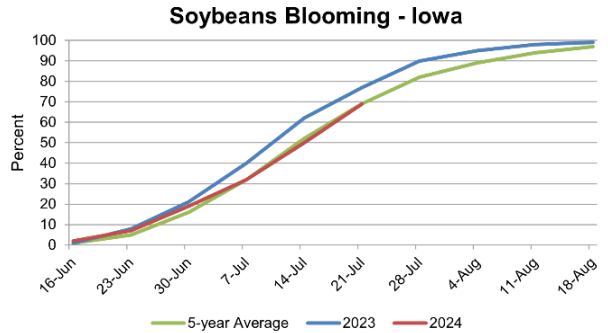
**Topsoil moisture** condition rated 1 percent very short, 10 percent short, 81 percent adequate and 8 percent surplus. **Subsoil moisture** condition rated 1 percent very short, 10 percent short, 80 percent adequate and 9 percent surplus.

**Corn** silking reached 68 percent, 1 day behind last year but 2 days ahead of the five-year average. Corn crop at the dough stage reached 18 percent, 2 days ahead of last year and 5 days ahead of the five-year average. Corn condition was rated at 75 percent good to excellent. **Soybean** crop blooming reached 69 percent, 5 days behind last year but equal to the five-year average. Soybeans setting pods reached 25 percent, 2 days behind last year and 1 day behind the five-year average. Soybean condition was 74 percent good to excellent. **Oats** turning color reached 89 percent, 2 days behind last year but 3 days ahead of the five-year average. The oat harvest for grain reached 44 percent complete, 5 days ahead of last year and the five-year average. Oat condition was 76 percent good to excellent.

The state's second cutting of **alfalfa hay** reached 75 percent complete, 5 days behind last year but 2 days ahead of the five-year average. The third cutting of alfalfa hay began at 6 percent, 4 days behind last year but 1 day ahead of the five-year average. **Hay condition** rated 78 percent good to excellent. **Pasture condition** rated 71 percent good to excellent.

**Crop Condition as of July 21, 2024**

Item	Very Poor	Poor	Fair	Good	Excellent
	(percent)	(percent)	(percent)	(percent)	(percent)
Corn .....	1	4	20	57	18
Hay, all .....	0	3	19	61	17
Oats .....	1	3	20	63	13
Pasture and range ..	1	3	25	58	13
Soybeans .....	1	4	21	59	15



**Crop Progress as of July 21, 2024**

Item	Districts									State			
	NW	NC	NE	WC	C	EC	SW	SC	SE	This week	Last week	Last year	5-year avg
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Corn silking .....	60	68	48	76	74	79	70	65	78	68	44	70	61
Corn dough .....	6	14	13	13	24	36	32	16	13	18	6	16	9
Hay, alfalfa, 2nd cutting .....	89	79	67	81	84	76	87	69	70	75	57	83	71
Hay, alfalfa, 3rd cutting .....	6	2	3	4	8	12	2	5	9	6	1	15	5
Oats coloring .....	96	100	80	88	91	90	89	88	92	89	82	91	85
Oats harvested for grain .....	33	44	27	51	49	49	70	75	60	44	26	29	27
Soybeans blooming .....	72	75	47	73	59	80	70	53	81	69	50	77	69
Soybeans setting pods .....	20	21	12	36	28	41	27	17	14	25	12	30	27

**Days Suitable for Fieldwork and Soil Moisture Condition as of July 21, 2024**

Item	Districts									State		
	NW	NC	NE	WC	C	EC	SW	SC	SE	This week	Last week	Last year
	(days)	(days)	(days)	(days)	(days)	(days)	(days)	(days)	(days)	(days)	(days)	(days)
Days suitable .....	6.4	6.3	5.3	5.9	5.7	5.3	6.1	6.3	5.2	5.9	5.1	6.3
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Topsoil moisture												
Very short .....	1	0	0	1	1	2	1	1	0	1	0	13
Short .....	16	3	7	19	4	10	8	17	8	10	6	42
Adequate .....	69	81	83	73	90	82	86	79	91	81	84	43
Surplus .....	14	16	10	7	5	6	5	3	1	8	10	2
Subsoil moisture												
Very short .....	0	0	0	5	1	2	1	1	0	1	1	17
Short .....	8	2	5	17	10	11	9	15	18	10	8	46
Adequate .....	76	80	83	70	85	81	84	81	81	80	82	36
Surplus .....	16	18	12	8	4	6	6	3	1	9	9	1

The complete report can be found on the USDA NASS website at [www.nass.usda.gov/Publications](http://www.nass.usda.gov/Publications).

# IOWA PRELIMINARY WEATHER SUMMARY

Provided by Justin Glisan, Ph.D., State Climatologist  
Iowa Department of Agriculture and Land Stewardship

*Reports from the Iowa Department of Agriculture and Land Stewardship and maps from the Midwestern Regional Climate Center reflect data collected from 7:00 A.M. Central Time July 15, 2024, through 7:00 A.M. Central Time on July 21, 2024.*

The main weather headline of the reporting period was an early week derecho that formed in central Iowa and covered over 500 miles through Illinois, Indiana and Michigan. While pockets of agricultural damage were found, particularly in eastern Iowa, most of Iowa remains free of widespread impacts. Unseasonably cool conditions were also observed statewide with negative departures in the two to four degree range; the statewide average temperature was 71.1 degrees, 2.5 degrees below normal.

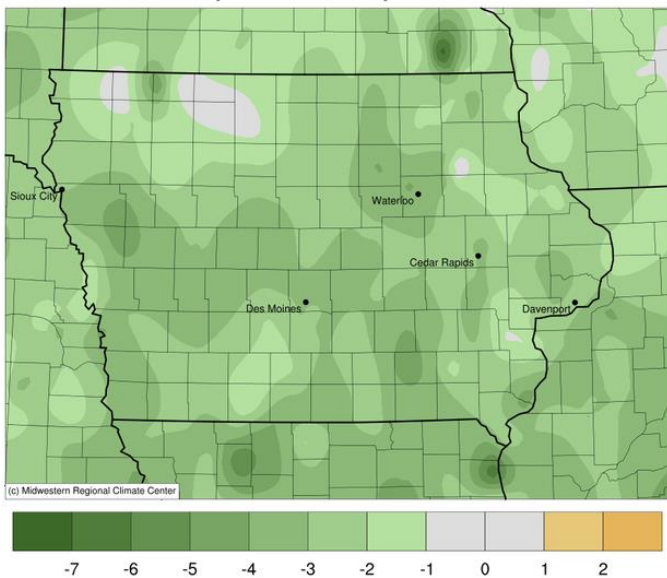
Sunday (14<sup>th</sup>) afternoon was unseasonably warm statewide with daytime temperatures in the upper 80s and low 90s under mostly sunny skies. Scattered thunderstorms formed in north-central and eastern Iowa into the evening hours with some storms producing strong wind gusts. The storms dissipated just before midnight as skies cleared with a southeasterly wind into Monday (15<sup>th</sup>) morning. Lows remained warmer than normal, ranging from the upper 60s north to mid 70s south with patchy fog in northeastern Iowa. Underneath the existing heat dome over the Midwest, afternoon temperatures rose into the upper 80s to mid 90s as a boundary draped west to east became a focusing mechanism for afternoon discrete supercells. The initial storms fired in central Iowa with a fast moving EF-1 rated tornado carving a seven-mile path through the near-western suburbs of Des Moines (Polk County). The storms quickly coalesced into a squall line and sped across eastern Iowa, leaving behind nearly 50 reports of severe straight line winds and hail along with three weak tornadoes; a wind gust of 86 mph was observed near Aurora (Buchanan County). Much of the state's eastern half reported measurable rainfall with many stations collecting at least 0.50 inch. Stations in east-central Iowa observed heavier amounts with 30 stations at or above 1.50 inches; five stations in Linn County measured more than 2.00 inches from 2.25 inches in Central City to 2.80 inches in Cedar Rapids. The line exited Iowa later in the night as skies cleared with a northwest shifting wind. Tuesday (16<sup>th</sup>) was a much quieter day with spotty showers passing across Iowa as afternoon temperatures held in the mid to upper 70s. Overnight lows into Wednesday (17<sup>th</sup>) varied from the upper 50s in northwest Iowa to mid 60s in the southeast corner. Partly cloudy skies developed through the afternoon with highs in the 70s.

Variable and light winds developed into the nighttime hours with pockets of fog reported in northern Iowa on Thursday (18<sup>th</sup>) morning. Clouds became more prevalent from west to east through the day as afternoon highs varying from the low 70s northeast to low 80s southwest. Skies cleared out across eastern Iowa into Friday (19<sup>th</sup>) with overcast conditions lingering in western Iowa where temperatures remained in the low to mid 60s; temperatures were five to 10 degrees cooler where clouds weren't present. Cloudy conditions persisted over the daytime hours with highs holding in the 70s over much of Iowa. Showers pushed into western Iowa toward the evening and spread into central Iowa over the next several hours. Light showers increased in coverage by daybreak on Saturday (20<sup>th</sup>) with unseasonably cool conditions under stratus clouds and rain. Rainfall eventually ended around sunset with general totals in the 0.10-0.30-inch range. Higher totals were found in pockets of northern and southwest Iowa; Hampton (Franklin County) collected 0.65 inch with a 1.58 inches reading in Underwood (Pottawattamie County). Calm to light winds allowed widespread fog formation through Sunday (21<sup>st</sup>) morning with temperatures in the low to mid 60s.

Weekly precipitation totals ranged from no accumulation in several pockets to 3.66 inches in Cedar Rapids (Linn County). The statewide weekly average precipitation was 0.66 inch while the normal is 1.01 inches. Little Sioux (Harrison County) reported the week's high temperature of 96 degrees on the 15<sup>th</sup>, 10 degrees above normal. Forest City (Winnebago County) and Mapleton (Monona County) reported the week's low temperature of 48 degrees on the 18<sup>th</sup>, on average 14 degrees below normal.

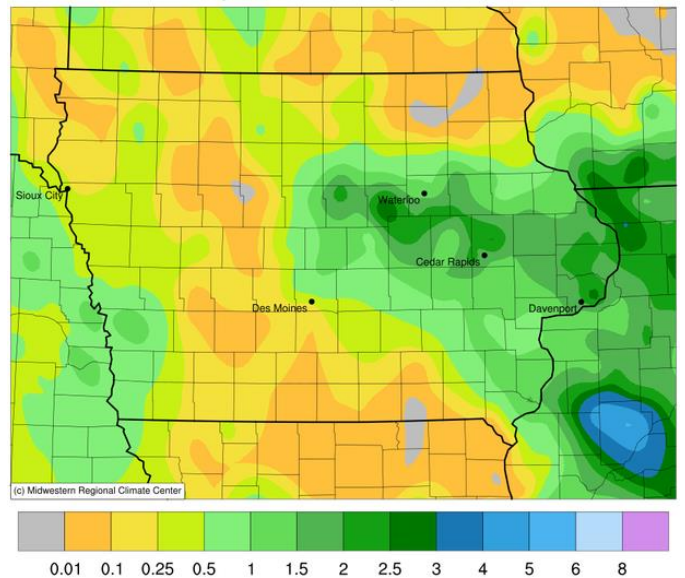
**Average Temperature (°F): Departure from 1991-2020 Normals**

July 15, 2024 to July 21, 2024



**Accumulated Precipitation (in)**

July 15, 2024 to July 21, 2024



Temperature and Precipitation Maps, courtesy of the Midwestern Regional Climate Center, are available at:  
<https://mrcc.purdue.edu/CLIMATE/>