

Monthly Report - September 2025

City of Darien

As August turns into September, the risk of West Nile Virus remains high. Our program focuses on protecting public health by minimizing vector disease risk, particularly West Nile Virus (WNV), while managing nuisance populations.

WNV activity has escalated significantly, with 11 confirmed human cases across 6 counties and 53 counties testing positive as of August 28th, 2025. Cook County leads with 6 cases, while mosquito surveillance shows a 22.3% positivity rate—higher than 2024's 17.6%. With sustained warm temperatures and continued precipitation, these trends will persist through mosquito season.

Aligned with CDC integrated mosquito management guidelines, Clarke's control measures include enhanced surveillance in affected counties, targeted larval control, adult mosquito control via ULV applications in high-risk areas, and community outreach support through free public relations kits.

National Weather Reports

National Weather Service data showed August temperatures near seasonal averages with above-normal precipitation. August recorded 5.03 inches of precipitation in Chicago (0.78 inches above normal) with temperatures 0.5 degrees below normal, while Rockford saw temperatures 1.3 degrees below normal. The higher than normal start to the month has cooled off with an overall lower average for the month. Pockets of higher rainfall show localized nuisance population increases, but overall *Culex pipiens*, the primary WNV vector, remain elevated with sustained activity.

Scattered showers continue improving drought conditions across the Midwest, though northern Illinois maintains negative soil moisture anomalies despite recent rainfall. August 2025 temperatures have remained close to the 73.8°F historical average, sustaining optimal mosquito activity conditions.

Through the remainder of September, we anticipate continued activity in *Culex pipiens* but reduced *Aedes vexans* populations, driven by seasonal rainfall, elevated soil moisture, and fluctuating temperatures that are typical of late summer.



August 2025 Review

September 2, 2025
7:00 AM

Generally near to slightly below normal temperatures and a mixed bag for rainfall

Chicago (O'Hare)

Avg. Temperature

73.3°

0.5° below normal

Precipitation

5.03"

0.78" above normal

Rockford

Avg. Temperature

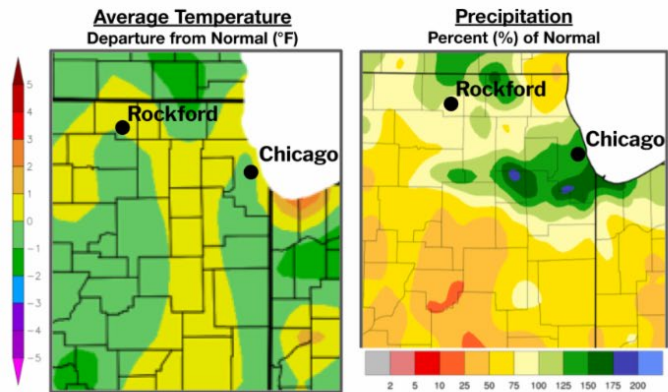
70.6°

1.3° below normal

Precipitation

3.30"

0.89" below normal



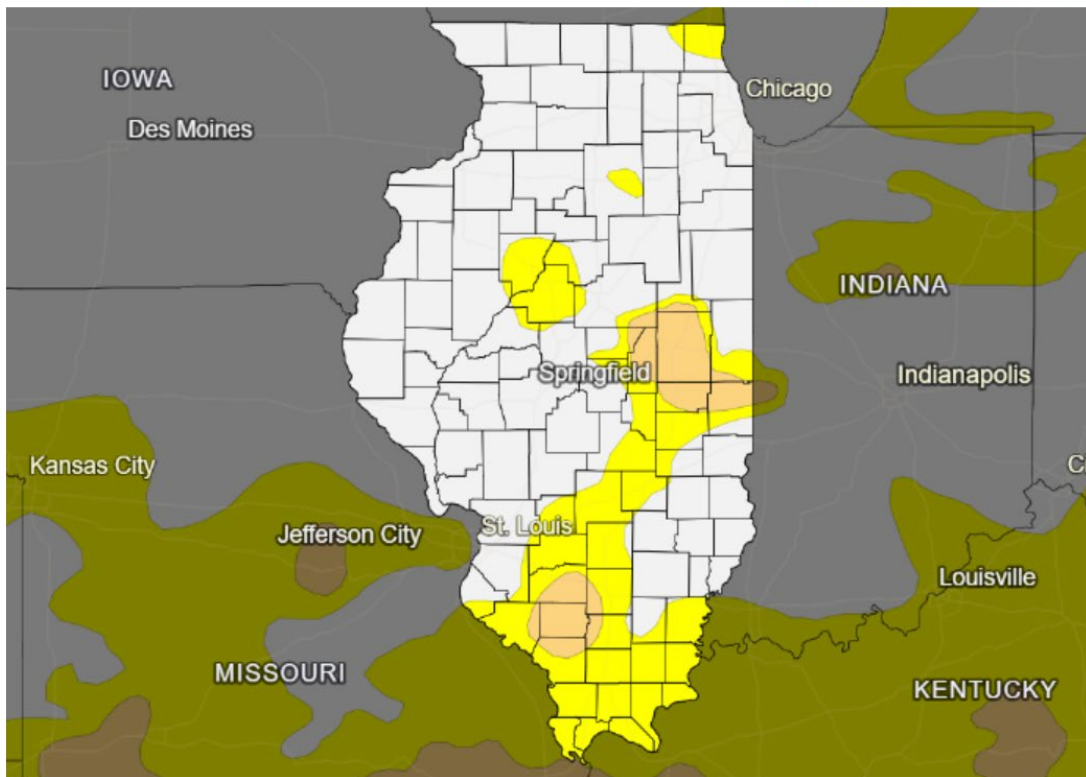
Maps courtesy of the High Plains and Midwest Regional Climate Centers









National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Chicago, IL

U.S. Drought Monitor: Illinois



Drought & Dryness Categories

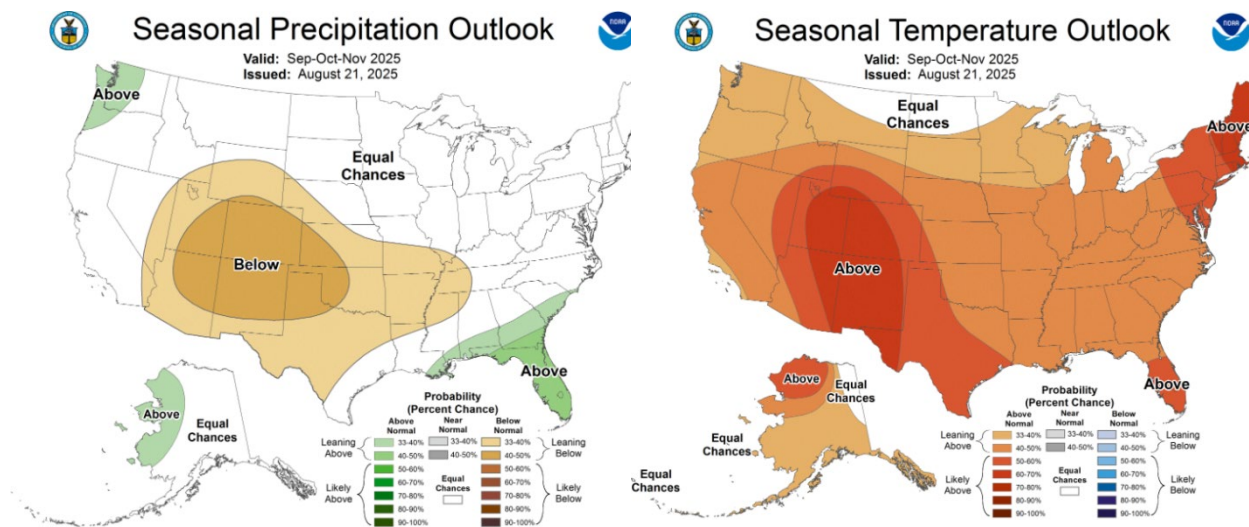
	D0 – Abnormally Dry
	D1 – Moderate Drought
	D2 – Severe Drought
	D3 – Extreme Drought
	D4 – Exceptional Drought
	Total Area in Drought (D1–D4)

% of IL

22.9%
6.1%
0.0%
0.0%
0.0%
6.1%

Source(s): NDMC, NOAA, USDA
Data Valid: 08/26/25

Drought.gov



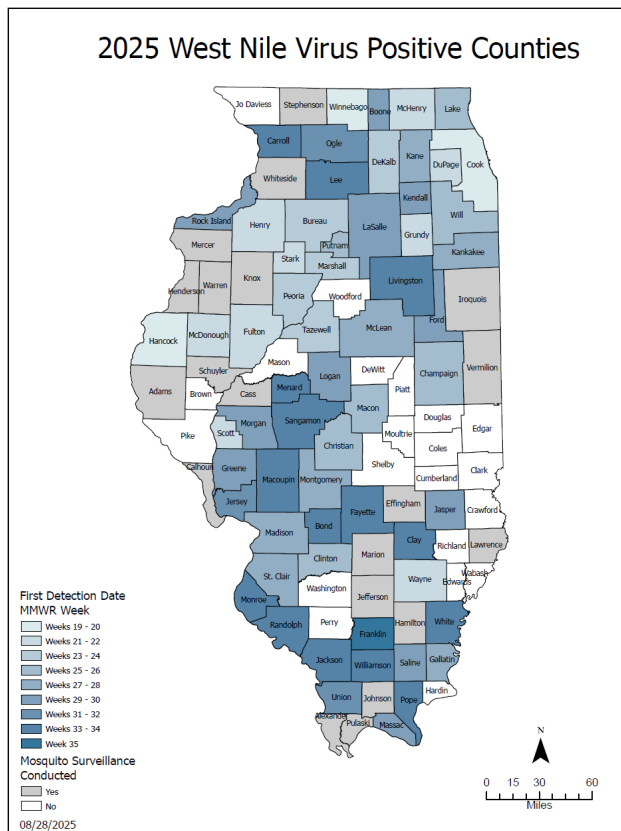
To Keep Up with the Latest Data, Use the Clarke Customer Portal

The floodwater mosquito, *Aedes vexans*, is the key nuisance species in the Chicagoland area. Distinct hatches of floodwater mosquito populations, or broods, are triggered by significant rainfall events. The Clarke Brood Prediction Model calculates peak annoyance periods based on rainfall and temperature data collected from weather stations in your area. This section has been moved to the Clarke Customer Portal in order to keep data as up-to-date as possible.

Clarke maintains and operates an online Customer Portal that program administrators can use to get up-to-date information on their mosquito management program.

Find **Floodwater Mosquito Brood Predictions** and **full monthly data** on the Clarke Customer Portal. If you've forgotten your password, simply use the reset feature to regain access. Once logged in, select "Custom Reports" from the left menu, click "Run," choosing your account and the correct month, then "View Report." [[Step-by-step guide here](#)]

Mosquito Borne Disease Update



There have been eleven confirmed WNV-positive human cases as of August 28, 2025, in the state of Illinois. The Illinois Department of Public Health has announced that a total of 61 counties have samples testing positive for WNV, as depicted on the map. Eight additional counties were recently added to the positive list: Franklin, Jersey, Lee, Livingston, Marcoupin, Menard, White, and Sangamon counties. Cook County leads with 6 cases, while DeKalb, DuPage, Lake, Madison, and Wayne counties each report 1 case.

Since its emergence in 1999, the West Nile virus (WNV)

has made quite an impact across the United States, leading to 58,682 human cases—including over 2,700 tragic fatalities—over the past 25 years. Given its prevalence in bird and mosquito populations, WNV has established itself as a significant annual threat during mosquito season. A county is considered positive for WNV when it has a positive bird, mosquito, human, horse, or other mammal. Once a county has a positive test result for the year, it will be indicated as "positive" for the rest of the 2025 season.

	Number Collected in all Counties	# WNV Positives	% WNV Positives
2025 Data as of August 28			
2025 Mosquito Surveillance Samples	13,535	3,233	23.9%
2025 Bird Surveillance Samples			
2025 WNV Positive Counties	61		
2025 Human Cases as of August 28	11		
2024 Historical Data as of August 28 for Comparison			
2024 Mosquito Surveillance Samples	13,584	2,546	18.7%
2024 Bird Surveillance Samples	152	35	23.0%
2024 WNV Positive Counties	55		
2024 Total Human Cases	69		
2012 Historical Data as of August 28 for Comparison			
2012 Mosquito Surveillance Samples	15,481	4,238	27.4%
2012 Bird Surveillance Samples	504	102	20.2%
2012 WNV Positive Counties	45		
2012 Total Human Cases	290		

Free Public Relations Kit for Vector-Borne Disease Communication

Effective, timely communication is critical when vector-borne diseases like WNV and EEE impact your community. Clarke offers free public relations kits exclusively for our customers to support your outreach efforts and help reassure the public.

What's Inside:

- Pre-written social media posts
- Professionally designed graphics
- Expert-developed FAQs
- Informative fact sheets

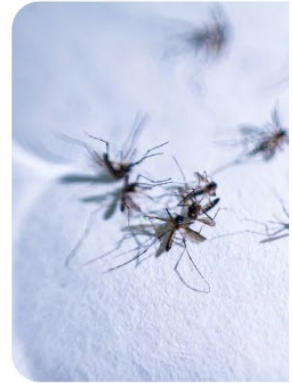
- PSA scripts ready for use
- Customizable press release templates
- Step-by-step deployment guides

Operations Update

With sustained weather conditions driving continued increases in WNV vector populations, Clarke's strategic control measures will be dynamically adjusted based on surveillance findings to ensure effective mosquito population reduction and disease risk mitigation throughout the peak of the season.

Clarke recommends intensifying control measures to reduce WNV risks in alignment with CDC guidelines:

1. Enhanced Surveillance: Continuous monitoring of mosquito populations, mosquito development sites, and virus activity.
2. Targeted Larval Control: Proactive treatments in historical *Culex* mosquito development sites.
3. Adult Mosquito Control (ULV Applications): Recommended in areas where surveillance indicates elevated WNV risk.
4. Community Outreach Support: Clarke's WNV Public Relations Kit provides ready-to-use communication materials to assist municipal messaging, with emphasis on personal protection measures in affected areas.



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