



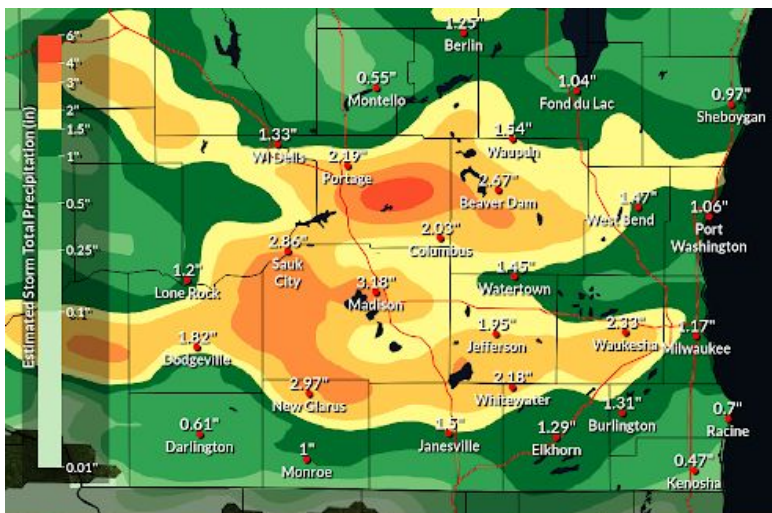
# September 21-22 Thunderstorms

## Widespread Beneficial Rainfall; Downburst Near Arena

Multiple rounds of thunderstorms moved across southern Wisconsin from the afternoon of September 21 through the predawn hours of September 22, 2024.

Storms brought beneficial rainfall to the area, with many locations over south-central WI seeing widespread 1-2" totals. Some locations saw totals in the 3-5" range.

A downburst occurred between Arena & Mazomanie on the afternoon of September 21, with multiple reports of straight-line wind damage to trees, crops, and outbuildings.

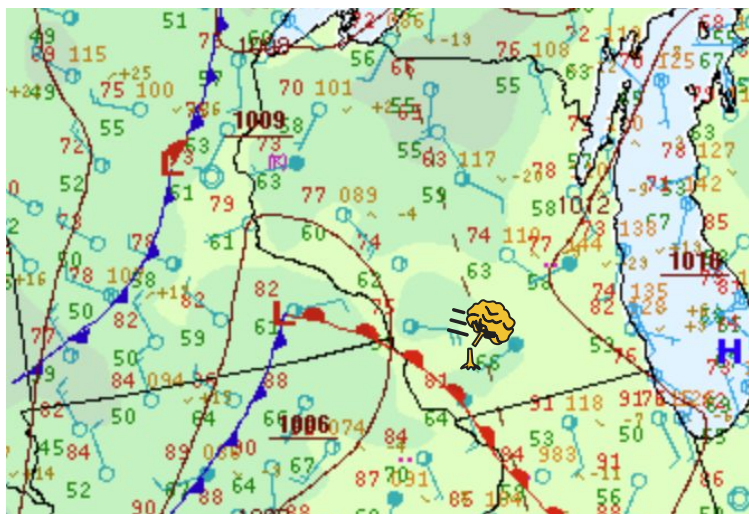


Radar-estimated rainfall between 1:00 PM September 21 & 12:00 PM September 22

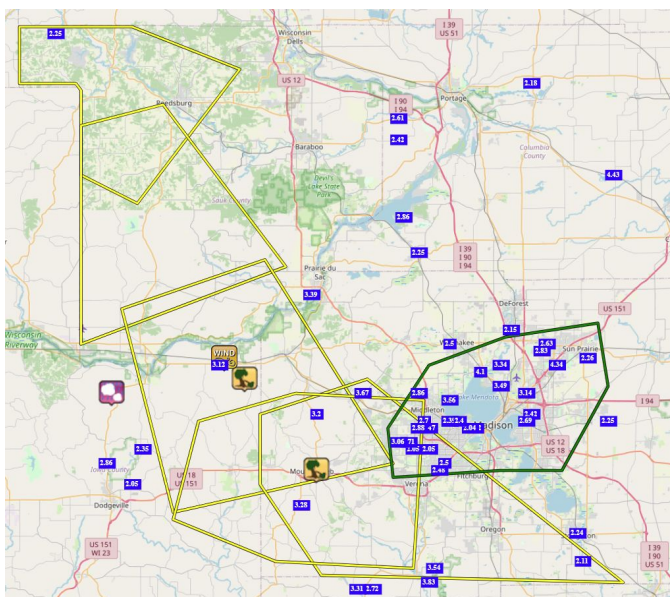
Storms developed along and ahead of a cold front slowly progressing into the Upper Mississippi Valley on the afternoon of Sep 21st.

While typically areas north of a warm front limits damaging winds, these storms which develop along/north of the warm front were strong enough to overcome this environment.

Thus sporadic wind gusts up to 60 MPH associated with localized downbursts were the cause of tree damage between Arena and Mazomanie.



4:00 PM surface analysis on Sep 21. Image taken from the Weather Prediction Center



Severe thunderstorm warning polygons and storm reports from September 21.

Wind reports are shown in yellow icons, with hail reports being shown in purple icons.

Blue rectangles with white numbers denote heavy rain reports



Toppled tree in the Arena area.

Image courtesy of Alex Harrington.

