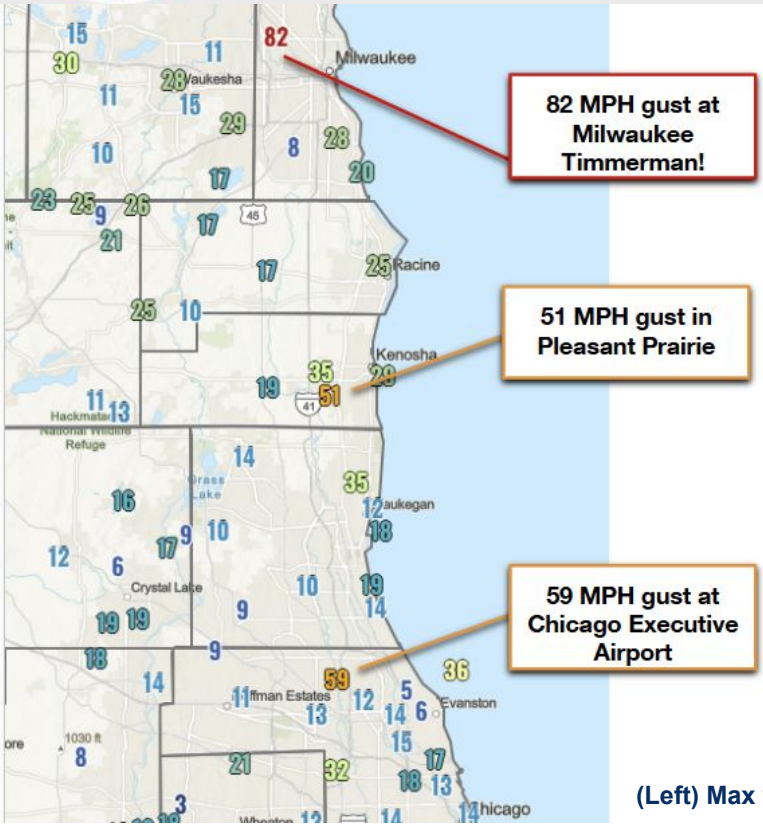
June 29, 2025 Thunderstorms

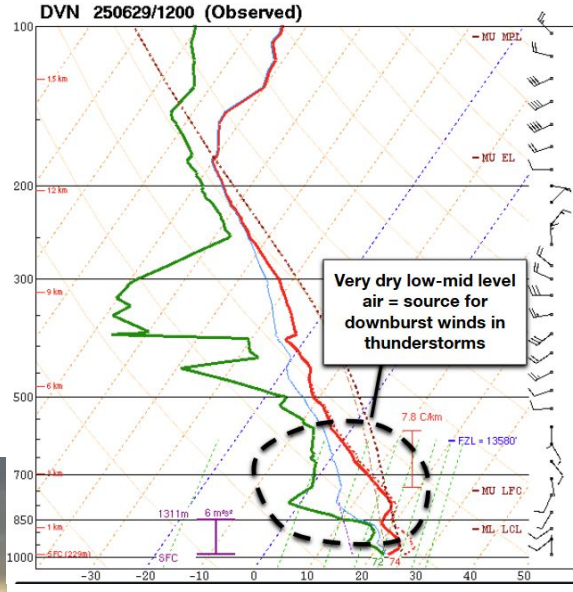
Microburst Produces 82 MPH Gust At Timmerman Airport



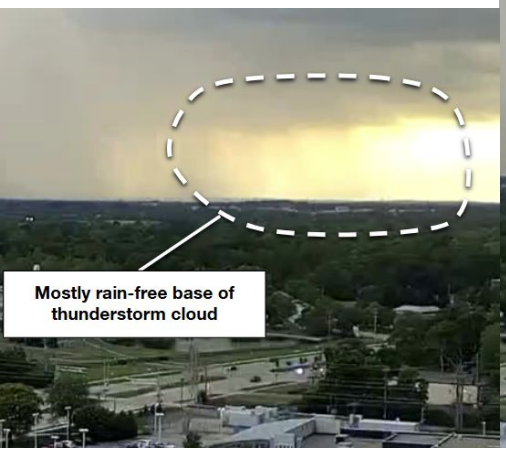
(Left) Max wind gusts observed on 6/29

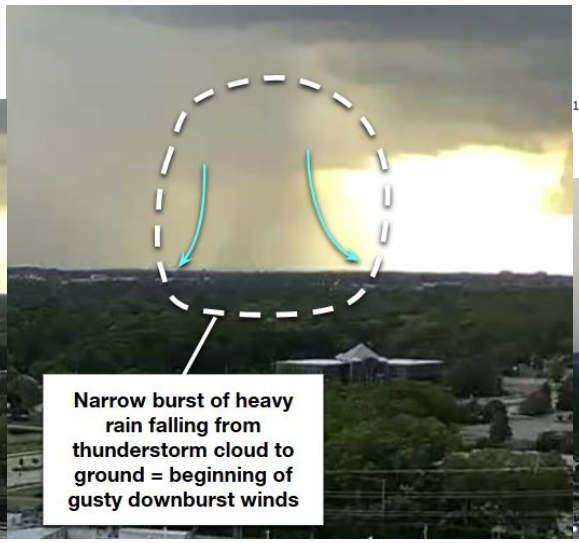
Event Overview: A warm and humid air mass led to widespread shower and thunderstorm development during the afternoon hours on June 29, 2025. Storms remained mostly below severe limits, though a few stronger cells produced gusty winds and locally heavy rainfall. The strongest wind gusts occurred over southeast Wisconsin, close to the Lake Michigan shoreline. A 51 MPH gust was recorded near Pleasant Prairie. A microburst resulted in an 82 MPH wind gust at Milwaukee's Timmerman Airport, flipping an airplane, in addition to damaging trees in nearby neighborhoods.

Event Setup: Temperatures in the mid-upper 80s and dew points in the 70s led to a very unstable air mass across southern Wisconsin. The instability resulted in storm development across the area. Wind shear was weak, leading to short-lived "pulse" thunderstorms. Thanks to dry low-mid level air, strong downdrafts were able to form as some of these storms collapsed.



(Above) 12Z sounding from the Quad Cities





(Above) three images showing the progression of the microburst near Timmerman Airport. Pictures courtesy of Fox 6 Milwaukee

National Oceanic and Atmospheric Administration
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National Weather Service
Milwaukee, WI