

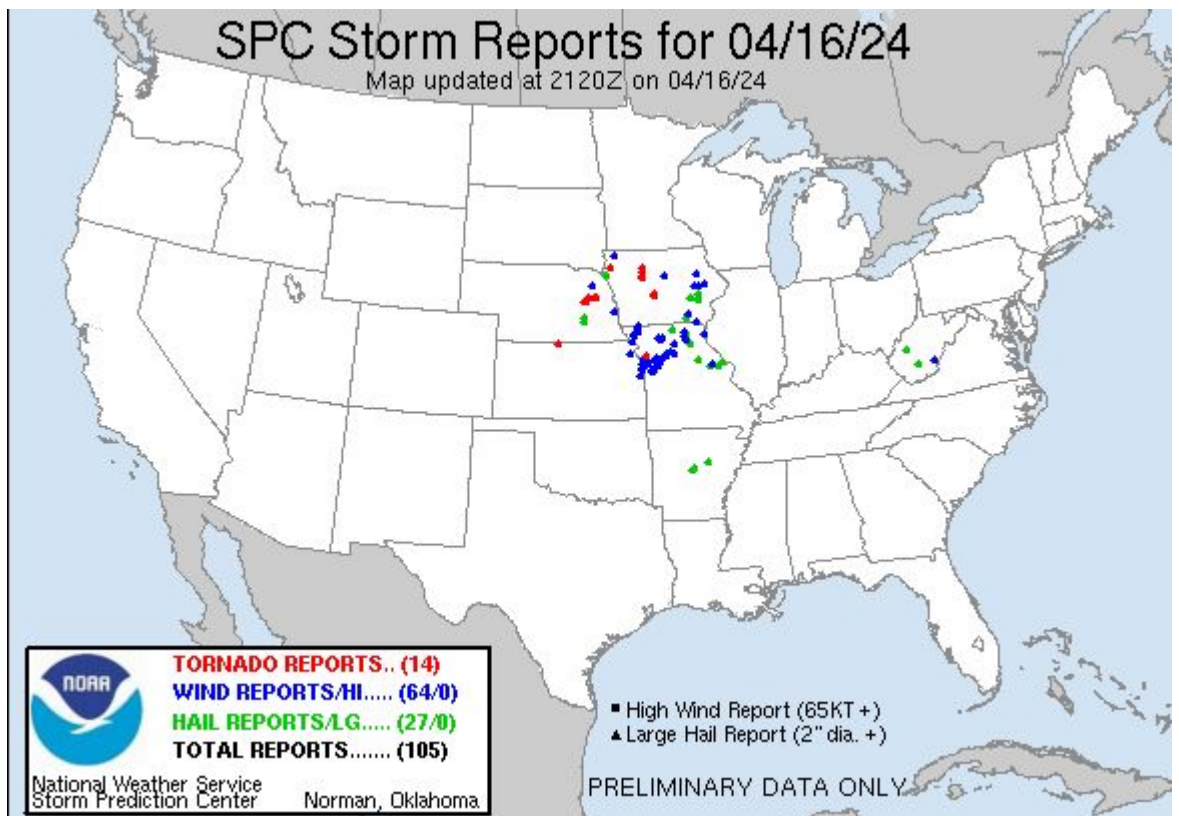
Central Iowa Severe Weather Event April 16, 2024

Photo Credit - Webster County EMA

Event Summary

A strong Spring low pressure brought multiple rounds of strong to severe thunderstorms to portions of central Iowa on Tuesday, April 16th, 2024. Two storms produced tornadoes, one in rural Dallas County and the other in rural Calhoun and Pocahontas Counties. A few of the severe thunderstorms also produced hail of 1 to 2 inches in diameter and wind gusts of 50-60 mph. Environmental winds behind the dry line were quite strong as well, occasionally gusting in excess of 50-55 mph.

Local Storm Reports



Click image to view interactive storm report map.



All information is PRELIMINARY. Page last updated: April 17th at 8 AM

Dallas Co. Tornado

This tornado touched down shortly after 11 AM, tracking from south to north across northern Dallas County. Damage was observed from northwest of Dallas Center to northeast of Minburn, east of Highway 169. The tornado was on the ground for roughly 5 minutes. The tornado rating is to be determined pending review of damage survey information gathered.



Photo Credit - Minburn Fire Department



Calhoun-Pocahontas Tornado

This tornado first touched down shortly after 2:30 PM and periodically lifted as the parent storm moved from south to north across portions of Calhoun and Pocahontas Counties. The tornado rating is to be determined pending review of damage survey information gathered.

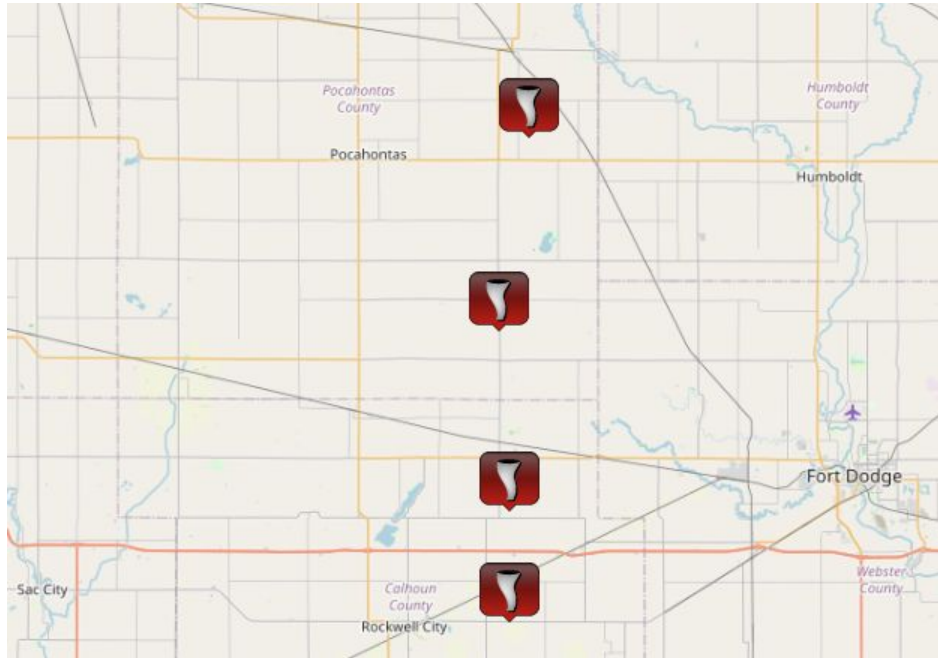


Photo Credit - Calhoun County EMA

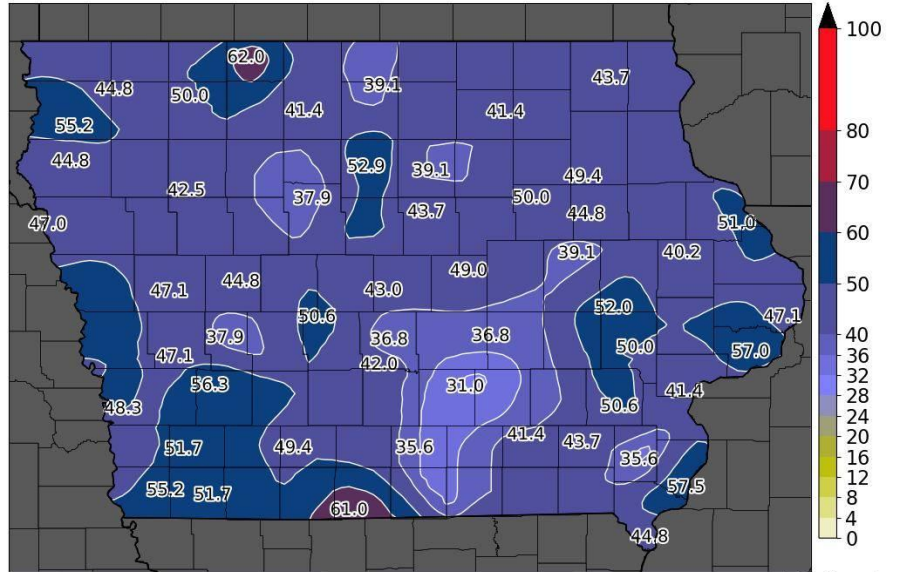


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Strong Wind Gusts in Central Iowa



Peak Wind Gust [MPH] for Iowa on 2024-04-16



Generated at 16 Apr 2024 11:51 PM CDT in 1.36s

data units :: mph
IEM Autoplot App #206

Here is a graphical map of all the wind gusts throughout the state of Iowa. Most of the state measured winds in excess of 40 mph due to gradient winds (low pressure). Wind gusts due to thunderstorms and a late afternoon increase in mixing winds resulted in winds in excess of 50 to 60 mph. (Graphic courtesy of Iowa Environmental Mesonet.)

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NOUS43 KDMX 170921
PNSDMX
IAZ004>007-015>017-023>028-033>039-044>050-057>062-070>075-081>086-092>097-172121-

Public Information Statement
National Weather Service Des Moines IA
421 AM CDT Wed Apr 17 2024

...HIGHEST WIND GUST REPORTS FOR APRIL 16 2024...

Location	Speed	Time/Date	Lat/Lon
Estherville Airport	62 MPH	0338 PM 04/16	43.40N/94.75W
Lamoni Airport	61 MPH	0325 PM 04/16	40.63N/93.90W
Atlantic Airport	56 MPH	0435 PM 04/16	41.41N/95.05W
Adair	55 MPH	0140 PM 04/16	41.50N/94.73W
Clarion Airport	53 MPH	1235 PM 04/16	42.75N/93.77W
3.4 SW Sheffield (UPR)	53 MPH	1139 AM 04/16	42.85N/93.23W
Webster City Airport	52 MPH	0615 PM 04/16	42.42N/93.87W
Bedford	52 MPH	0115 PM 04/16	40.68N/94.78W
Jefferson	52 MPH	0235 PM 04/16	42.05N/94.38W
Perry Airport	51 MPH	0535 PM 04/16	41.83N/94.17W
Waterloo Airport	49 MPH	0207 PM 04/16	42.55N/92.40W
Creston Airport	49 MPH	0335 PM 04/16	41.02N/94.37W
Creston	49 MPH	0155 PM 04/16	41.05N/94.31W
Colfax	49 MPH	0715 PM 04/16	41.69N/93.26W
Osceola	49 MPH	0405 PM 04/16	41.03N/93.79W
Early	48 MPH	0435 PM 04/16	42.47N/95.15W
Mason City Airport	48 MPH	0827 AM 04/16	43.15N/93.33W
Marshalltown Airport	48 MPH	1222 PM 04/16	42.12N/92.92W
Denison Airport	47 MPH	0135 PM 04/16	41.97N/95.37W
Boone Airport	46 MPH	0555 PM 04/16	42.03N/93.83W
Carroll Airport	45 MPH	0215 PM 04/16	41.53N/94.77W
Osceola Airport	45 MPH	0455 PM 04/16	41.05N/93.68W
Ankeny	45 MPH	1110 AM 04/16	41.76N/93.57W
Ames	45 MPH	1110 AM 04/16	42.03N/93.57W
Carroll	45 MPH	0325 PM 04/16	42.08N/94.90W
2 SSE Ames	44 MPH	0506 PM 04/16	41.99N/93.62W
Iowa Falls Airport	44 MPH	1135 AM 04/16	42.47N/93.27W
Centerville	44 MPH	0940 PM 04/16	40.74N/93.00W
Leon	44 MPH	0405 PM 04/16	40.74N/93.84W
Des Moines International Air	43 MPH	0448 PM 04/16	41.53N/93.67W
Mason City Us18	43 MPH	0845 AM 04/16	43.11N/93.12W
Rockwell City	43 MPH	0440 PM 04/16	42.45N/94.67W
Des Moines I-35	42 MPH	0505 PM 04/16	41.52N/93.77W
Mason City	42 MPH	0510 AM 04/16	43.04N/93.34W
Iowa State University	41 MPH	0520 PM 04/16	42.01N/93.64W
Algona Airport	41 MPH	0835 AM 04/16	43.07N/94.27W
Ottumwa Regional Airport	41 MPH	0627 PM 04/16	41.10N/92.45W
Grimes	41 MPH	0440 PM 04/16	41.74N/93.78W
Algona	40 MPH	0840 AM 04/16	43.08N/94.40W

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

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Highest wind gust reports for April 16th, 2024. Winds in central Iowa exceeded 60 mph at a couple locations including Estherville and Lamoni. Main locations exceeded 45 to 55 mph as well. These reports are a combination of strong gradient (low pressure) related winds as well as thunderstorm wind gusts and late day mixing of the low level jet.



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