Central Iowa Short-Lived Tornado Event April 16, 2024

Photo Credit - Webster County Emergency Management

Event Summary

A strong Spring low pressure brought multiple rounds of strong to severe thunderstorms to portions of central lowa on Tuesday, April 16th, 2024. At least 8 short-lived tornadoes touched down, some causing damage in portions of central lowa from late morning through the afternoon. 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.



Tornado 1 - Carbon



Carbon Tornado – Adams County			
Date	April 16, 2024		
Time (Local)	9:31 – 9:33 AM CDT		
EF Rating	EF-0		
Est. Peak Winds	80 MPH		
Path Length	1.75 Miles		
Max Width	~30 Yards		
Injuries/Deaths	None		

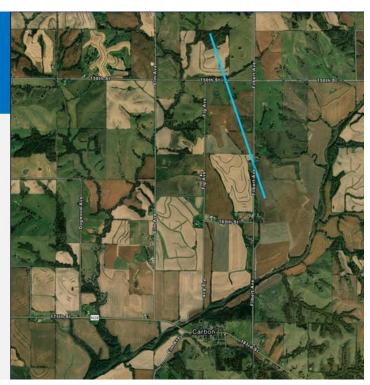






Photo Credit - Adams County Emergency Management

Tornado 2 - Anita



Anita Tornado – Cass County				
Date	April 16, 2024			
Time (Local)	9:58 – 10:00 AM CDT			
EF Rating	EF-1			
Est. Peak Winds	90 MPH			
Path Length	0.64 Miles			
Max Width	~30 Yards			
Injuries/Deaths	None			







Photo Credit - Cass County Emergency Management

Tornado 3 - Minburn



Minburn Tornado			
Date	April 16, 2024		
Time (Local)	1105am - 1115am CDT		
EF Rating	EF-0		
Est. Peak Winds	75-85 mph		
Path Length	6.8 miles		
Max Width	~50 yards		
Injuries/Deaths	None		







Photo Credit - Dallas County Emergency Management

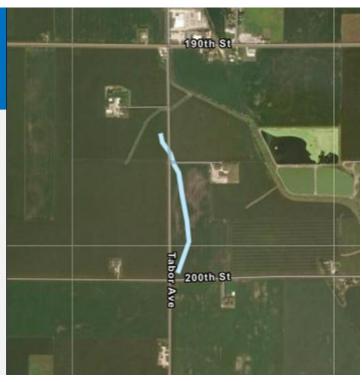
Tornado 4 - Rockwell City



Tornado 5 - Manson

NATIONAL WEATHER SERVICE



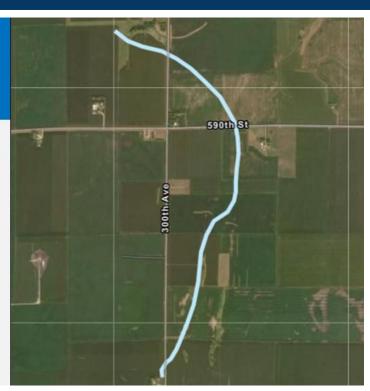




Tornado 6 - Palmer



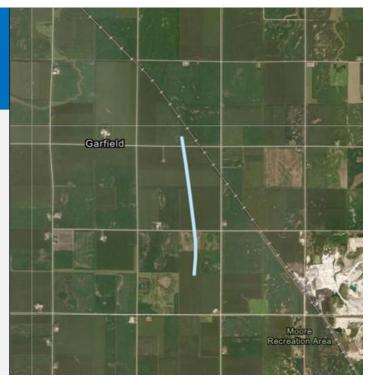
Palmer Tornado – Pocahontas County				
Date	April 16, 2024			
Time (Local)	3:11 - 3:16 PM CDT			
EF Rating	EFU			
Est. Peak Winds	Unknown			
Path Length	2.05 Miles			
Max Width	~50 Yards			
Injuries/Deaths	None			



Tornado 7 - Rolfe #1



Rolfe Tornado #1 – Pocahontas County			
Date	April 16, 2024		
Time (Local)	3:34 - 3:38 PM CDT		
EF Rating	EFU		
Est. Peak Winds	Unknown		
Path Length	1.66 Miles		
Max Width	~40 Yards		
Injuries/Deaths	None		

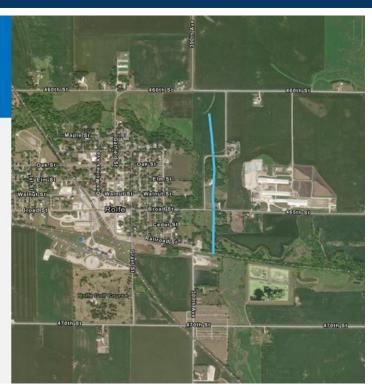




Tornado 8 - Rolfe #2

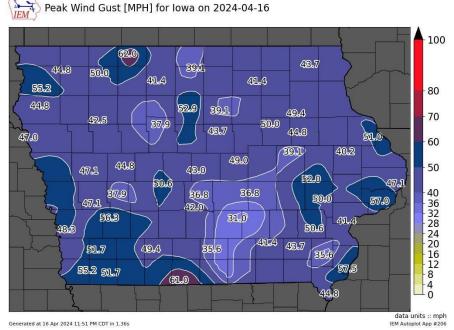


Rolfe Tornado #2 – Pocahontas County			
Date	April 16, 2024		
Time (Local)	3:42 - 3:45 PM CDT		
EF Rating	EF0		
Est. Peak Winds	70 MPH		
Path Length	0.64 Miles		
Max Width	~40 Yards		
Injuries/Deaths	None		



Strong Wind Gusts in Central Iowa

Here is a graphical map of all the wind gusts throughout the state of lowa. 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 lowa Environmental Mesonet.)



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

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

Estherville Airport Lamoni Airport Atlantic Airport Atlantic Airport Atlantic Airport Atlantic Airport Atlantic Airport Atlantic Airport Adair Clarion Airport S5 MPH O1405 PM 04/16 A1.41N/95.05W Adair Clarion Airport S3 MPH O1405 PM 04/16 A2.75N/93.77W 3.4 SW Sheffield (UPR) S3 MPH D1139 PM 04/16 A2.75N/93.77W 3.4 SW Sheffield (UPR) S3 MPH D1139 PM 04/16 A2.75N/93.77W J.4 SW Sheffield (UPR) S5 MPH D115 PM 04/16 A2.85N/93.23W Webster City Airport D1139 PM 04/16 B04/16	Location	Speed	Time/Date	Lat/Lon
Lamoni Airport 61 MPH 0325 PM 04/16 40.63N/93.90W Atlantic Airport 56 MPH 04435 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 42.50N/94.77W 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 42.42N/93.87W Jefferson 52 MPH 0235 PM 04/16 42.42N/93.87W Perry Airport 51 MPH 0535 PM 04/16 42.55N/94.38W Perry Airport 49 MPH 0235 PM 04/16 41.83N/94.17W Waterloo Airport 49 MPH 0235 PM 04/16 42.55N/92.40W Creston Airport 49 MPH 0155 PM 04/16 41.05N/94.31W Coreston 49 MPH 0715 PM 04/16 41.05N/93.51W Osceola	Estherville Airport		0338 PM 04/16	43,40N/94,75W
Atlantic Airport Adair Adair S56 MPH O440 PM 04/16 41.50N/94.73W Clarion Airport 3 MPH 1235 PM 04/16 42.75N/93.77W 3.4 SW Sheffield (UPR) 53 MPH 1139 AM 04/16 42.75N/93.77W Bedford 52 MPH 0615 PM 04/16 42.42N/93.87W Bedford 52 MPH 0615 PM 04/16 42.42N/93.87W Bedford 52 MPH 0235 PM 04/16 42.65N/94.38W Perry Airport 51 MPH 0535 PM 04/16 42.65N/94.38W Perry Airport 49 MPH 0235 PM 04/16 42.55N/92.40W Creston Airport 49 MPH 0355 PM 04/16 42.55N/92.40W Creston Airport 49 MPH 0355 PM 04/16 41.69N/93.26W Osceola 49 MPH 0715 PM 04/16 41.69N/93.26W Osceola 49 MPH 0405 PM 04/16 42.47N/95.15W Marshalltown Airport 48 MPH 0435 PM 04/16 42.12N/92.92W Denison Airport 47 MPH 0135 PM 04/16 42.12N/92.92W Denison Airport 46 MPH 0255 PM 04/16 42.12N/92.93W Carroll Airport 45 MPH 0215 PM 04/16 42.03N/93.83W Carroll Airport 45 MPH 0215 PM 04/16 42.03N/93.83W Ankeny 45 MPH 1110 AM 04/16 42.03N/93.57W Ames 45 MPH 1110 AM 04/16 42.03N/93.57W Carroll 45 MPH 0255 PM 04/16 42.03N/93.57W Carroll 45 MPH 0355 PM 04/16 42.03N/93.57W Carroll 46 MPH 0355 PM 04/16 42.03N/93.57W Carroll 47 MPH 0135 PM 04/16 42.03N/93.57W Carroll 48 MPH 0455 PM 04/16 42.03N/93.57W Carroll 49 MPH 0405 PM 04/16 42.03N/93.57W Centerville 44 MPH 0325 PM 04/16 42.03N/93.57W Centerville 44 MPH 0405 PM 04/16 42.03N/93.32W Des Moines International Air 43 MPH 0448 PM 04/16 42.47N/93.22W Centerville 44 MPH 0448 PM 04/16 42.47N/93.27W Des Moines International Air 43 MPH 0448 PM 04/16 43.11N/93.12W Centerville 44 MPH 0448 PM 04/16 43.11N/93.37W Des Moines I-35 42 MPH 0505 PM 04/16 43.11N/93.37W Des Moines I-35 42 MPH 0505 PM 04/16 43.07N/94.27W Des Moines Regional Airport 41 MPH 0627 PM 04/16 43.07N/94.27W Ottumwa Regional Airport 41 MPH 0627 PM 04/16 41.10N/92.45W Ottumwa Regional Airport 41 MPH 0627 PM 04/16 41.10N/92.45W	Lamoni Airport '	61 MPH		40.63N/93.90W
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3.4 SW Sheffield (UPR) Webster City Airport Bedford Sed MPH Se	Clarion Airport	53 MPH	1235 PM 04/16	42.75N/93.77W
Webster City Airport 52 MPH 0615 PM 04/16 42.42N/93.87W Bedford 52 MPH 0115 PM 04/16 42.68N/94.78W Jefferson 52 MPH 0235 PM 04/16 42.65N/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 41.05N/94.37W Creston 49 MPH 0715 PM 04/16 41.05N/94.37W Corfax 49 MPH 0715 PM 04/16 41.05N/93.26W Osceola 49 MPH 0715 PM 04/16 41.05N/93.25W Osceola 49 MPH 0435 PM 04/16 42.47N/93.15W Mason City Airport 48 MPH 0435 PM 04/16 42.15N/93.33W Marshalltown Airport 48 MPH 0827 AM 04/16 42.12N/92.92W Denison Airport 47 MPH 0135 PM 04/16 42.03N/93.83W Carroll Airport 45 MPH <td></td> <td>53 MPH</td> <td>1139 AM 04/16</td> <td>42.85N/93.23W</td>		53 MPH	1139 AM 04/16	42.85N/93.23W
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Ames		45 MPH	0455 PM 04/16	41.05N/93.68W
Carroll 45 MPH 0325 PM 04/16 42.08N/94.90W 2 SSE Ames 44 MPH 0506 PM 04/16 42.9N/93.62W 10wa Falls Airport 44 MPH 1135 AM 04/16 42.47N/93.27W Centerville 44 MPH 0940 PM 04/16 42.47N/93.20W Leon 44 MPH 0405 PM 04/16 40.74N/93.20W Des Moines International Air 43 MPH 0440 PM 04/16 40.74N/93.84W Nason City Us18 43 MPH 0440 PM 04/16 41.53N/93.67W Nason City 43 MPH 0440 PM 04/16 42.45N/93.77W Des Moines I-35 42 MPH 0505 PM 04/16 42.45N/93.77W Mason City 42 MPH 0509 PM 04/16 43.04N/93.34W 10wa 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 0835 AM 04/16 43.07N/94.27W Ottumwa Regional Airport 41 MPH 0440 PM 04/16 41.10N/92.45W Grimes	Ankeny	45 MPH	1110 AM 04/16	41.76N/93.57W
2 SSE Ames IOWA Falls Airport Ad MPH I135 AM 04/16 A2.47N/93.27W A4 MPH I135 AM 04/16 A2.47N/93.27W A4 MPH O940 PM 04/16 A0.74N/93.00W A5 MPH O448 PM 04/16 A0.74N/93.84W A5 MPH O845 AM 04/16 A1.17N/93.27W A5 MPH O845 AM 04/16 A1.17N/93.27W A5 MPH O845 AM 04/16 A1.17N/93.12W A5 MPH O845 AM 04/16 A1.17N/93.12W A5 MPH O540 PM 04/16 A1.17N/93.12W A5 MPH O540 PM 04/16 A1.17N/93.36W A1 MPH O540 PM 04/16 A1.17N/93.36W A1 MPH O540 PM 04/16 A1.17N/93.36W A1 MPH O647 PM 04/16 A1.10N/92.45W A1 MPH O647 PM 04/16 A1.10N/92.45W A1 MPH O647 PM 04/16 A1.10N/92.45W A1.74N/93.77W	Ames	45 MPH	1110 AM 04/16	42.03N/93.57W
Towa Falls Airport	Carroll	45 MPH	0325 PM 04/16	42.08N/94.90W
Centerville 44 MPH 0940 PM 04/16 do.74N/93.06W Leon 44 MPH 0405 PM 04/16 do.74N/93.84W Des Moines International Air 43 MPH 0448 PM 04/16 do.74N/93.87W Mason City Us18 43 MPH 0845 AM 04/16 do.74N/93.12W Rockwell City 43 MPH 0845 AM 04/16 do.74N/93.72W Des Moines I-35 42 MPH 0505 PM 04/16 do.74N/93.77W Mason City 42 MPH 0510 AM 04/16 do.74N/93.34W Iowa State University 41 MPH 0520 PM 04/16 do.74N/93.34W Ottumwa Regional Airport 41 MPH 0627 PM 04/16 do.74N/93.78W Ottumwa Regional Airport 41 MPH 0640 PM 04/16 do.74N/93.78W	2 SSE Ames	44 MPH	0506 PM 04/16	41.99N/93.62W
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 0540 PM 04/16 42.45N/94.67W Des Moines I-35 42 MPH 0505 PM 04/16 42.45N/94.67W Mason City 42 MPH 0510 AM 04/16 43.04N/93.34W Iowa State University 41 MPH 0520 PM 04/16 43.04N/93.64W Algona Airport 41 MPH 0827 PM 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	Iowa Falls Airport	44 MPH		42.47N/93.27W
Des Moines International Air 43 MPH 0448 PM 04/16 41.53N/93.67W	Centerville	44 MPH	0940 PM 04/16	40.74N/93.00W
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 0627 PM 04/16 41.10N/92.45W Ottumwa Regional Airport 41 MPH 0627 PM 04/16 41.10N/93.78W Grimes 41 MPH 0440 PM 04/16 41.74N/93.78W	Leon	44 MPH	0405 PM 04/16	40.74N/93.84W
Rockwell Ćity 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 41.74N/93.78W Grimes 41 MPH 0440 PM 04/16 41.74N/93.78W	Des Moines International Air	43 MPH	0448 PM 04/16	41.53N/93.67W
Des Moines I ⁻ 35	Mason City Us18	43 MPH	0845 AM 04/16	43.11N/93.12W
Mason City Iowa State University Algona Airport Ottumwa Regional Airport Grimes 42 MPH 42 MPH 45.01N/93.34W 42.01N/93.64W 43.07N/94.27W 43.04N/93.34W	Rockwell City	43 MPH	0440 PM 04/16	42.45N/94.67W
Iowa Staté 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	Des Moines I-35	42 MPH	0505 PM 04/16	41.52N/93.77W
Iowa Staté 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	Mason City	42 MPH	0510 AM 04/16	43.04N/93.34W
Otťumwa Regional Airport 41 MPH 0627 PM 04/16 41.10N/92.45W Grimes 41 MPH 0440 PM 04/16 41.74N/93.78W		41 MPH	0520 PM 04/16	42.01N/93.64W
Otťumwa Regional Airport 41 MPH 0627 PM 04/16 41.10N/92.45W Grimes 41 MPH 0440 PM 04/16 41.74N/93.78W		41 MPH		43.07N/94.27W
Grimes 41 MPH 0440 PM 04/16 41.74N/93.78W		41 MPH	0627 PM 04/16	41.10N/92.45W
Algona 40 MPH 0840 AM 04/16 43.08N/94.40W		41 MPH	0440 PM 04/16	41.74N/93.78W
	Algona	40 MPH	0840 AM 04/16	43.08N/94.40W

Highest wind gust reports for April 16th, 2024. Winds in central lowa 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.

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.

