

Storm Data and Unusual Weather Phenomena - April 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z058) DODGE, (WI-Z059) WASHINGTON

04/08/12 16:05 CST	4K	Strong Wind (MAX 48 kt)
04/08/12 16:30 CST	0	

Widespread wind gusts up to 40 mph...with a few peak gusts of 45 to 55 mph...affected portions of Southcentral and Southeast Wisconsin during the late afternoon of April 8th. These strong winds were due to the tight pressure gradient between high pressure centered over the Plains and low pressure accompanying a short wave trough into southern Canada. A dry air mass over southern Wisconsin produced deep mixing up to strong winds aloft, with steep lapse rates allowing these winds to translate down to the surface. The strongest wind gusts were associated with very light showers and sprinkles that evaporated as they fell into the drier air. The evaporative cooling of the air moving downward with the showers increased the momentum of the air, producing the stronger gusts.

(WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE

04/12/12 23:43 CST	0	Dense Fog
04/13/12 05:33 CST	0	

Dense fog, with visibilities of 1/4 mile or less, formed over all of Sheboygan County and northern sections of Ozaukee County during the early morning hours of April 13th. Clearing skies and light southeast winds allowed air temperatures to cool rapidly to the dew point. The light southeast flow off of Lake Michigan added moisture that aided the development of the dense fog.

(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z071) RACINE, (WI-Z072) KENOSHA

04/15/12 19:52 CST	28K	Strong Wind (MAX 47 kt)
04/16/12 12:15 CST	0	

Two periods of strong winds affected Southcentral and Southeast Wisconsin as a deep surface low tracked from southern Minnesota into northern Wisconsin during the overnight hours of April 15th to 16th. Southerly winds gusting to between 45 mph and 54 mph (39 knots to 47 knots) affected South Central Wisconsin on the night of the 15th with the tightening pressure gradient ahead of the low. The winds were enhanced with strong low-level jet winds mixing down to the surface. Cold-air advection, behind a cold front trailing the low, crossed the region during the day on the 16th and brought sustained winds between 20 mph and 30 mph (17 knots to 26 knots) and gusts up to 49 mph (43 knots) to much of South Central and Southeast Wisconsin. There were multiple reports of downed power lines, trees and tree branches.

(WI-Z068) GREEN

04/30/12 02:35 CST	0	Dense Fog
04/30/12 08:55 CST	0	

Dense fog with visibilities of 1/4 mile or less formed over sections of Southwest Wisconsin during the early morning hours of April 30th. The fog formed with light winds and a very moist near-surface atmosphere following rain showers the previous afternoon and evening.