

## Storm Data and Unusual Weather Phenomena - June 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### LAKE MICHIGAN

<b>SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]</b>				
	06/02/12 14:00 CST		0	Marine Thunderstorm Wind (MG 35 kt)
	06/02/12 14:00 CST		0	Source: C-MAN Station

Light showers moving through the northern portion of the Lake Michigan near shore waters caused brief gusty winds to mix down to the lake surface.

<b>NORTH POINT LIGHT TO WIND POINT WI 5NM OFFSHORE TO MID LAKE COUNTY --- 4.0 ESE NORTH POINT LTHOUSE [43.06, -87.86]</b>				
	06/18/12 11:00 CST		0	Marine Strong Wind (MG 32 kt)
	06/18/12 20:00 CST		0	Source: ASOS

Frequent gusts of 28 to 32 knots (32 to 37 mph) from noon to 8 pm at Milwaukee International Airport.

<b>WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]</b>				
	06/18/12 13:20 CST		0.10K	Marine Strong Wind (MG 39 kt)
	06/18/12 13:20 CST		0	Source: C-MAN Station

Frequent gusts at KNSW3 C-Man station of 34 to 39 knots from 130 pm to 720 pm CDT.

Strong southwest winds due to a tight pressure gradient across southern Wisconsin and Lake Michigan gusted as high as 35 knots (41 mph). The strongest winds occurred during the afternoon and early evening. Frequent wind gusts were in the 28 to 32 knots (32 to 37 mph) range during this period. These strong winds caused six kayakers to capsize in Milwaukee Harbor during the late afternoon. The coast guard and local police and fire came to the rescue of the kayakers. There were in 60 degree water for about 30 minutes, but did not sustain any injuries.

<b>SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.0 N HARRINGTON BCH ST PRK [43.48, -87.83]</b>				
	06/22/12 14:03 CST		0	Marine Hail (1.00 in)
	06/22/12 14:03 CST		0	Source: Trained Spotter

Trained spotter reported 1 inch hail 1 mile north of Harrington Beach State Park.

An isolated strong thunderstorm produced large hail on the shore areas of Lake Michigan.

### WISCONSIN, Southeast

<b>(WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA</b>				
	06/18/12 12:00 CST		0.13M	Strong Wind (MAX 39 kt)
	06/18/12 18:00 CST		0	

Strong gradient winds, ahead of a deep surface low tracking along the U.S./Canadian border, produced wind gusts up to 45 mph (39 knots) across southeast portions of South Central Wisconsin and most of Southeast Wisconsin. Numerous reports of tree branches being blown down as well as power lines downed by the strong winds were received from across the region. The downed power lines created scattered power outages across the area, with WE Energies reporting 7,000 customers without power, with 2,800 of those customers on the north side of the City of Milwaukee. The U.S. Coast Guard in Milwaukee rescued 6 kayakers within the Milwaukee Harbor breakwater after their kayaks capsized in the choppy waters produced by the gusty winds.

<b>(WI-Z066) MILWAUKEE</b>				
	06/18/12 13:00 CST	2	0	Heat
	06/20/12 16:00 CST		0	

Direct Fatalities: F66OU, M60PH

Gusty southwest winds of 20 to 35 mph brought a hot air-mass into southern Wisconsin, with maximum air temperatures reaching the lower to middle 90s, and daytime maximum heat index values of 95 or 96, beginning the afternoon of June 18th and lasting through the afternoon hours of June 20th. Overnight minimum heat index values were in the 75 to 80 range which added to any discomfort people

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were experiencing. The Milwaukee County Medical Examiner's office concluded hyperthermia was the direct cause of the death of a 66-year-old female found in her home's backyard and a 60-year-old male within his home on June 21st; both in the city of Milwaukee. As was the case with the historical July 1995 heat wave, it is entirely possible for a person to die within a day or two of the end of a heat wave.

**OZAUKEE COUNTY --- 1.0 NE BELGIUM [43.51, -87.84]**

06/22/12 14:03 CST	0	Hail (1.00 in)
06/22/12 14:03 CST	0	Source: Trained Spotter

**SHEBOYGAN COUNTY --- 2.0 E ELKHART LAKE [43.83, -87.98]**

06/22/12 16:07 CST	0	Hail (1.25 in)
06/22/12 16:07 CST	0	Source: Law Enforcement

A Sheboygan County Sheriff Deputy reported large hail fell about 2 miles east of Elkhart Lake between STH 57 and STH 67. The hail measured 1.25 inches in diameter.

**SHEBOYGAN COUNTY --- ELKHART LAKE [43.83, -88.02]**

06/22/12 16:16 CST	0	Hail (0.88 in)
06/22/12 16:16 CST	0	Source: COOP Observer

An intensifying short-wave trough provided lift to an unstable air-mass over Wisconsin during the middle to late afternoon hours of June 22nd. Daytime heating in concert with cold air aloft associated with the short-wave produced steep low to mid-level lapse rates. Surface-based CAPE values of 800-1000J/kg and effective bulk shear around 30 knots were sufficient to develop organized clusters of thunderstorms that produced large hail over portions of Sheboygan and Ozaukee counties.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

06/26/12 06:00 CST	0	Drought
06/30/12 23:59 CST	0	

A lack of rain over south-central and southeast Wisconsin during the month of June allowed a drought to slowly develop over the area by June 26th or so. Rainfall amounts ranged from around 3/10 inch in the south-central area to around 3 inches in the city of Sheboygan. This translated to monthly deficits ranging from around 4 inches to 1 inch. Sufficient soil moisture allowed for crops to grow normally, however, by the end of June it became apparent higher parts of farm fields were drying out and corn and soybean crops were showing signs of stress. Some locations in south-central and southeast Wisconsin actually started drying out toward the end of May. For example, the corridor from Madison-Janesville through Jefferson County into Washington County had monthly rainfall deficits of 1/10 to 1/3 inch for May, 2012.

The drought intensity and areal coverage increased rapidly from around June 26th to the end of the month. On June 26th, most of south-central and southeast Wisconsin were rated at least D0 on the U.S. Drought Monitor, and the area along and near State Highway 11 across the southern tier of counties had a D1 classification. This drought continued into July, 2012.

