

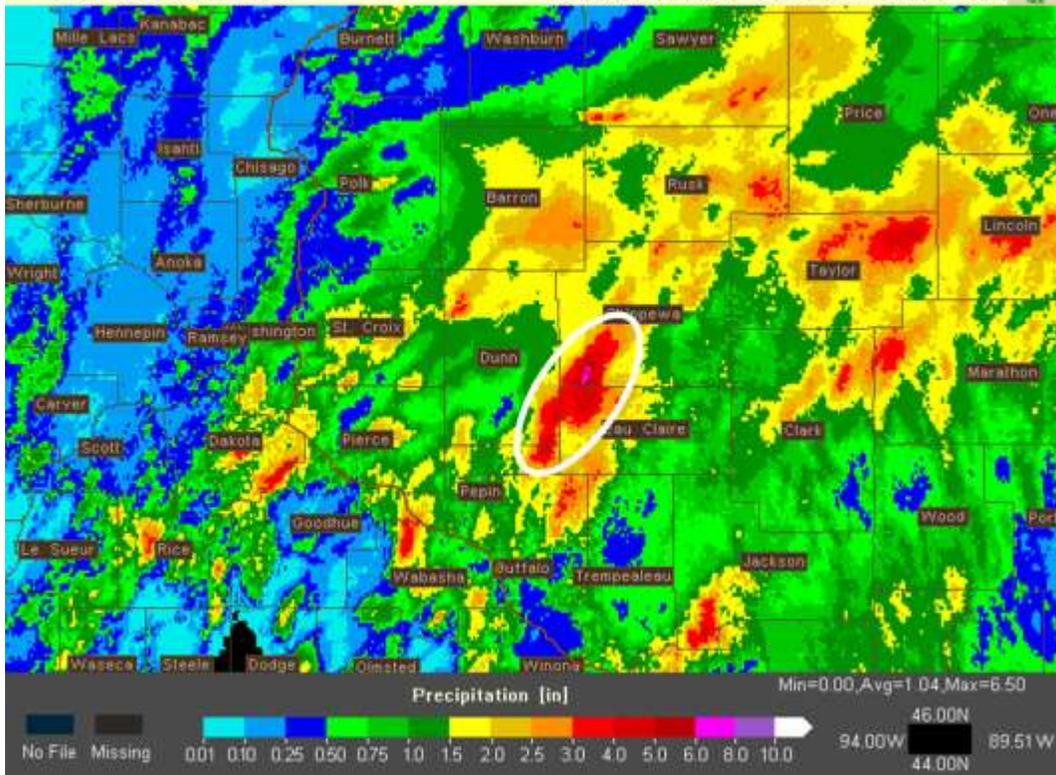
June 18, 2011: Heavy Rainfall in Eau Claire, WI

On the evening of June 18th, a slow moving surface boundary combined with unusually moist conditions to generate slow moving thunderstorms that produced torrential rainfalls across parts of Wisconsin. Hardest hit were areas near Eau Claire and Chippewa Falls, where radar estimates showed over 6 inches of rain falling just to the west of the Chippewa Valley Regional Airport. The airport itself had 4.84 inches of rain fall on the evening of the 18th and 19th, with 4.74 of those inches falling on the calendar day of June 18th. Not only was the 4.74 inches a new calendar day rainfall record, it also set a new calendar day record for the entire month of June, surpassing the previous mark of 3.69 inches set on June 19, 1931. This calendar rainfall total comes in at number two all time for Eau Claire as well, trailing only the 5.98 inches of rain that fell on September 10, 2000. Interestingly, the average rainfall for the entire month of June at Eau Claire is 4.27 inches, which was achieved in a mere 4 hours Saturday night. Impact wise, numerous streets across Eau Claire were flooded, with several vehicles becoming stranded in high water. In addition, a mud slide near mile marker 63 I-94 briefly slowed eastbound traffic on the busy interstate. Below is a table showing the top 5 calendar day rainfall amounts for Eau Claire along with graphics depicting radar estimates for rainfall and a few charts showing the weather set up that helped lead to this record rainfall event.

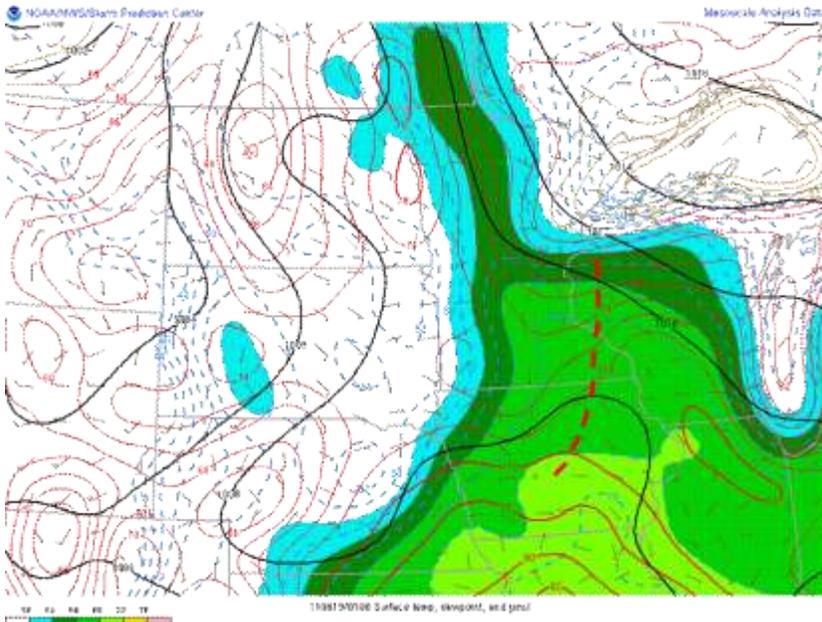
Top 5 All-Time Calendar Day Rainfalls at Eau Claire, Wisconsin		
1.	5.98 inches	9/10/2000
2.	4.74 inches	6/18/2011
3.	4.62 inches	5/27/1899
4.	4.39 inches	7/8/1959
5.	4.12 inches	8/9/1993 & 9/21/1986

Q2 [Gauge Adj Rad]
24hr OPE Accumulation

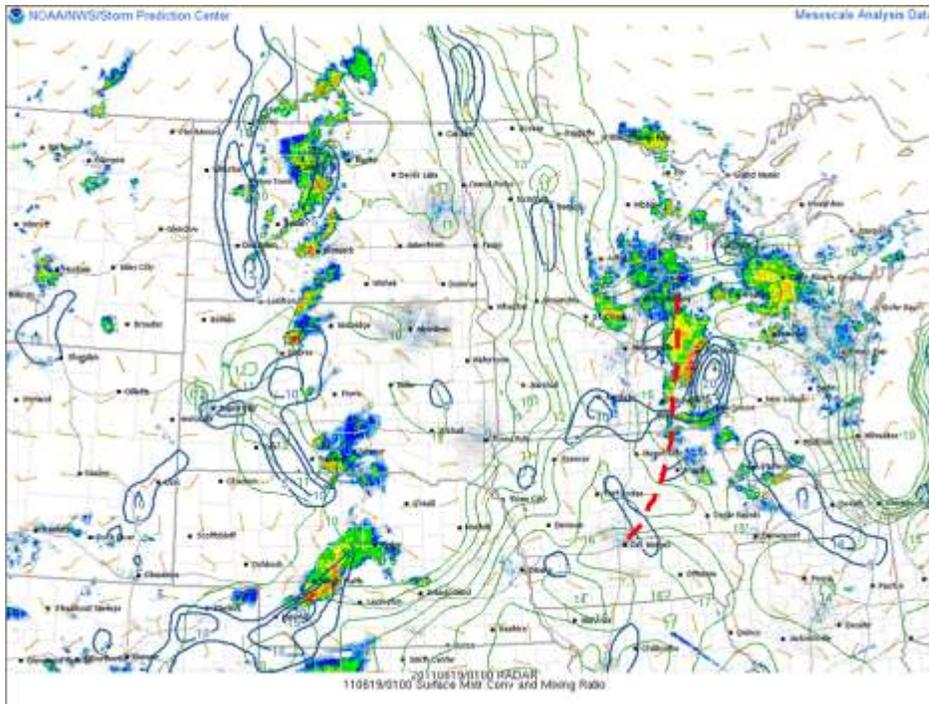
Valid Period:
06/18/2011 12:00:00 - 06/19/2011 12:00:00 UTC



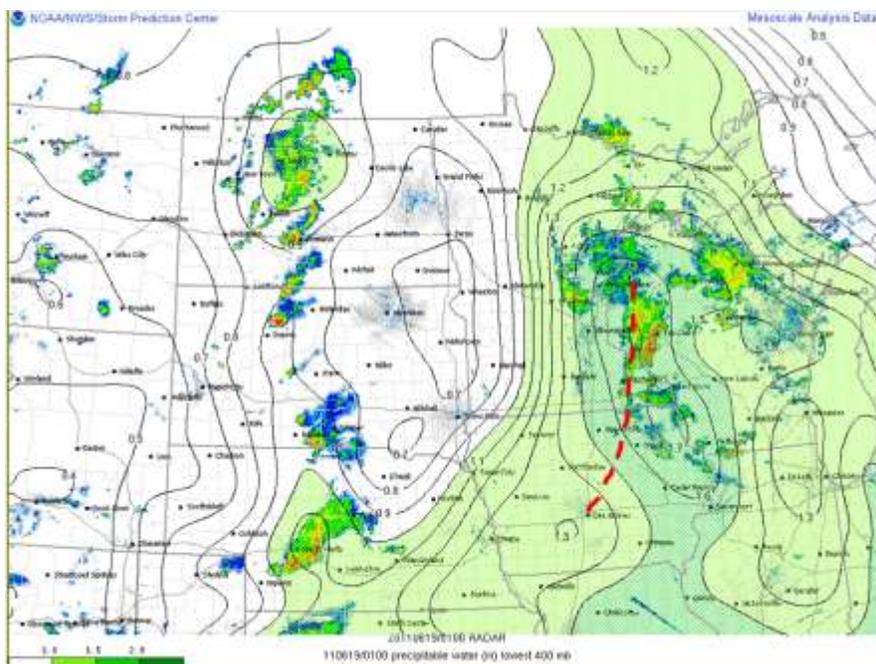
Radar rainfall estimates for the evening of June 18th and 19th. Area in the white oval is a swath where 3 to 6+ inches of rain was estimated to have fallen.



Surface chart from 8 pm on June 18th. Red dashed line denotes location of surface convergence boundary that was slowly moving east, generating showers and storms along the way.



Blue lines from the chart above show areas of surface wind convergence at 8 pm on the 18th. Notice the convergence ahead of the surface boundary and the convection associated with it near Eau Claire.



Precipitable water plot (measure of available water in the atmosphere) for 8 pm on the 18th. Values ahead of the surface boundary were near 1.7 inches, or about 0.7 inches above normal. Values this high are more typical of Gulf coast locations and was an indication of how much moisture was available for the storms.

