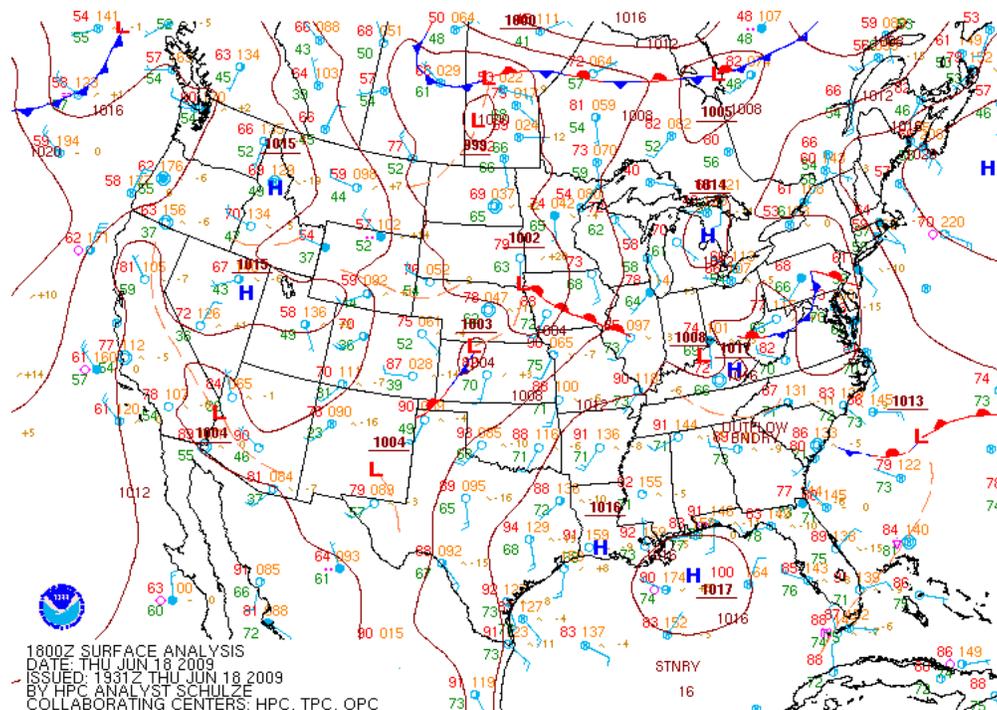


June 18, 2009: Large Hail in Central Minnesota

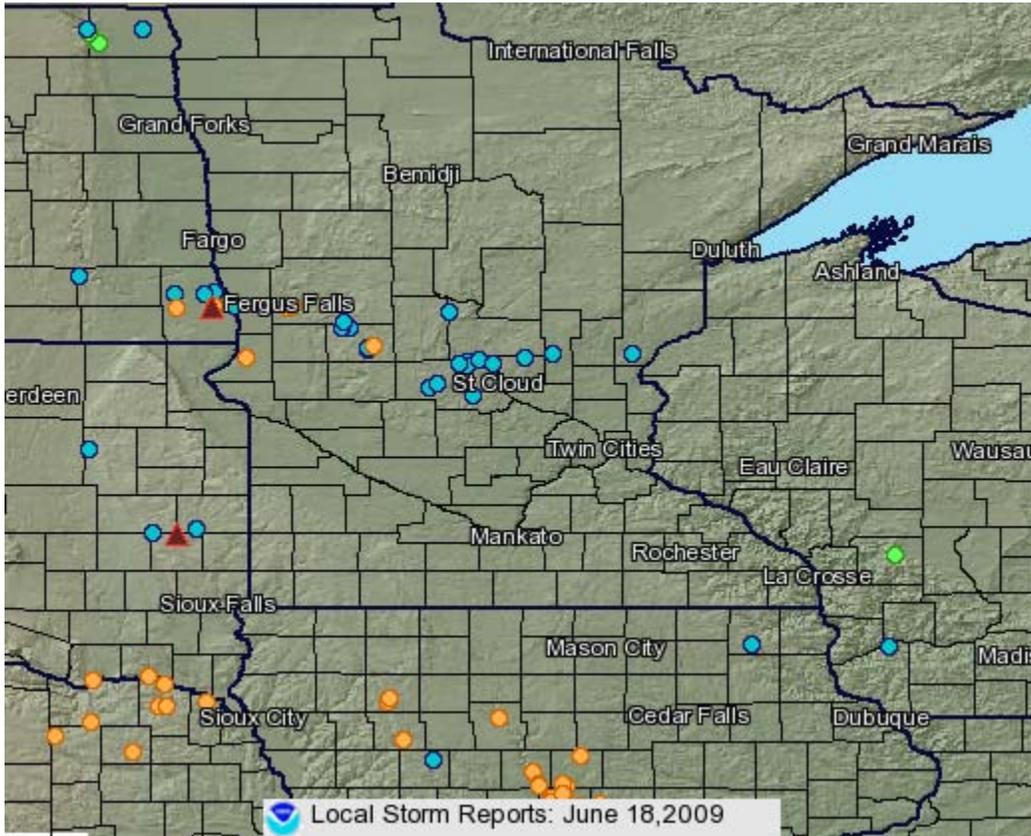
Event Synopsis

A very unstable air mass was in place across central and southern Minnesota on June 18th. An approaching upper level disturbance and low pressure system from the eastern Dakotas allowed thunderstorms to develop in central Minnesota during the early afternoon, with the initial ones becoming rapidly severe near Alexandria. These would slowly evolve eastward in central Minnesota through the remainder of the day, producing namely large hail. Southern Minnesota was stifled from the severe thunderstorms due to a "cap" in place. A cap is what meteorologists label the warm air aloft that prevents the atmospheric instability from being realized, and hence what can stifle thunderstorm development. The strength of these features depends on many factors through the depth of the lower atmosphere, and thus their magnitude can be challenging to forecast greater than 12 hours in advance. While little in the way of thunderstorms developed in southern Minnesota, thunderstorms continued to re-intensify across central Minnesota through the evening hours.



June 18, 2009: 1 pm Surface Weather Map

Storm Reports



PRELIMINARY LOCAL STORM REPORT...SUMMARY
 NATIONAL WEATHER SERVICE TWIN CITIES/CHANHASSEN MN
 627 AM CDT FRI JUN 19 2009

| ..TIME... | ...EVENT... | ...CITY LOCATION... | ...LAT..LON... |
|--------------------------------------------|--------------|-------------------------|-----------------|
| ..DATE... |MAG..... | ..COUNTY LOCATION..ST.. | ...SOURCE.... |
| | ..REMARKS.. | | |
| 0125 PM | HAIL | 4 W MILLERVILLE | 46.07N 95.63W |
| 06/18/2009 | E0.88 INCH | DOUGLAS MN | TRAINED SPOTTER |
| 0128 PM | HAIL | 2 W MILLERVILLE | 46.07N 95.60W |
| 06/18/2009 | E0.75 INCH | DOUGLAS MN | TRAINED SPOTTER |
| 0130 PM | HAIL | 4 W MILLERVILLE | 46.07N 95.63W |
| 06/18/2009 | E1.25 INCH | DOUGLAS MN | TRAINED SPOTTER |
| HAIL INCREASED FROM NICKLE TO 1.25 IN SIZE | | | |
| 0133 PM | HAIL | MILLERVILLE | 46.07N 95.55W |
| 06/18/2009 | E1.00 INCH | DOUGLAS MN | TRAINED SPOTTER |
| 0135 PM | HAIL | 4 W MILLERVILLE | 46.07N 95.63W |
| 06/18/2009 | E1.50 INCH | DOUGLAS MN | TRAINED SPOTTER |

0232 PM HAIL 2 N ALEXANDRIA 45.90N 95.38W
06/18/2009 E1.75 INCH DOUGLAS MN TRAINED SPOTTER

LARGE HAIL ACROSS NORTHERN PART OF CITY.

0234 PM FUNNEL CLOUD ALEXANDRIA 45.87N 95.38W
06/18/2009 DOUGLAS MN LAW ENFORCEMENT

2 FUNNELS DOWN AND UP IN CLOUD DID NOT TOUCH GROUND ALSO
WITNESSED BY HAM RADIO OPERATOR.

0235 PM TSTM WND DMG 3 NNE ALEXANDRIA 45.91N 95.34W
06/18/2009 DOUGLAS MN TRAINED SPOTTER

TREE DOWN

0307 PM HAIL 2 S OSAKIS 45.84N 95.15W
06/18/2009 E0.88 INCH DOUGLAS MN TRAINED SPOTTER

0308 PM HAIL OSAKIS 45.87N 95.15W
06/18/2009 E0.88 INCH DOUGLAS MN POST OFFICE

0315 PM HAIL OSAKIS 45.87N 95.15W
06/18/2009 M0.88 INCH DOUGLAS MN TRAINED SPOTTER

0330 PM HAIL 3 NNW LITTLE SAUK 45.91N 94.94W
06/18/2009 E0.75 INCH TODD MN TRAINED SPOTTER

0445 PM HAIL 4 WNW HOLDINGFORD 45.75N 94.55W
06/18/2009 E1.50 INCH STEARNS MN PUBLIC

0449 PM HAIL 3 W MELROSE 45.68N 94.87W
06/18/2009 M0.50 INCH STEARNS MN TRAINED SPOTTER

0504 PM HAIL 2 N HOLDINGFORD 45.76N 94.47W
06/18/2009 E1.00 INCH STEARNS MN TRAINED SPOTTER

SPOTTER ON CR17

0505 PM HAIL HOLDINGFORD 45.73N 94.47W
06/18/2009 M1.25 INCH STEARNS MN TRAINED SPOTTER

0507 PM HAIL HOLDINGFORD 45.73N 94.47W
06/18/2009 E1.75 INCH STEARNS MN TRAINED SPOTTER

DOWNTOWN

0512 PM FUNNEL CLOUD 1 N ST STEPHEN 45.72N 94.28W
06/18/2009 STEARNS MN TRAINED SPOTTER

0513 PM HAIL 1 W HOLDINGFORD 45.73N 94.49W
06/18/2009 M1.00 INCH STEARNS MN TRAINED SPOTTER

0516 PM HAIL 2 W ST STEPHEN 45.70N 94.32W
06/18/2009 M1.25 INCH STEARNS MN TRAINED SPOTTER

0520 PM HAIL ST STEPHEN 45.70N 94.28W
06/18/2009 E1.00 INCH STEARNS MN TRAINED SPOTTER

0528 PM HAIL 3 SE BOWLUS 45.79N 94.36W
06/18/2009 M1.50 INCH MORRISON MN PUBLIC

RELAYED VIA 911 CENTER

0541 PM TSTM WND GST RICE 45.75N 94.23W
06/18/2009 M52.00 MPH BENTON MN MESONET

US HWY 10 MILE POST 192

0541 PM HAIL RICE 45.75N 94.23W
06/18/2009 M1.75 INCH BENTON MN LAW ENFORCEMENT

0558 PM HAIL 8 E RICE 45.75N 94.06W
06/18/2009 M0.88 INCH BENTON MN TRAINED SPOTTER

0607 PM HAIL 5 N GILMAN 45.81N 93.95W
06/18/2009 M1.00 INCH BENTON MN TRAINED SPOTTER

0630 PM HAIL 6 NNW MILACA 45.84N 93.69W
06/18/2009 E1.25 INCH MILLE LACS MN PUBLIC

LASTED ABOUT TEN MINUTES. GROUND WHITE.

0707 PM HAIL 3 NW GRASSTON 45.83N 93.20W
06/18/2009 E0.75 INCH KANABEC MN TRAINED SPOTTER

0750 PM HAIL 8 S MOTLEY 46.22N 94.64W
06/18/2009 M1.00 INCH MORRISON MN TRAINED SPOTTER

0851 PM HAIL 4 NW ELROSA 45.60N 95.01W
06/18/2009 M0.75 INCH STEARNS MN TRAINED SPOTTER

0856 PM HAIL SAUK CENTRE 46.66N 94.95W
06/18/2009 M0.88 INCH STEARNS MN TRAINED SPOTTER

1 WEST JUNCTION HWY 71 AND HWY 28

0900 PM HAIL SPRING HILL 45.52N 94.83W
06/18/2009 M1.00 INCH STEARNS MN PUBLIC

0922 PM HAIL 4 S NEW MUNICH 45.57N 94.75W
06/18/2009 M1.25 INCH STEARNS MN STORM CHASER

HAIL STARTED AT 918 PM AND WAS MOSTLY 3/4 INCH...SOME
HALF DOLLARS.

0950 PM HAIL COLD SPRING 45.46N 94.43W
06/18/2009 M1.00 INCH STEARNS MN FIRE DEPT/RESCUE

1003 PM HAIL ROCKVILLE 45.47N 94.34W
06/18/2009 M0.88 INCH STEARNS MN TRAINED SPOTTER