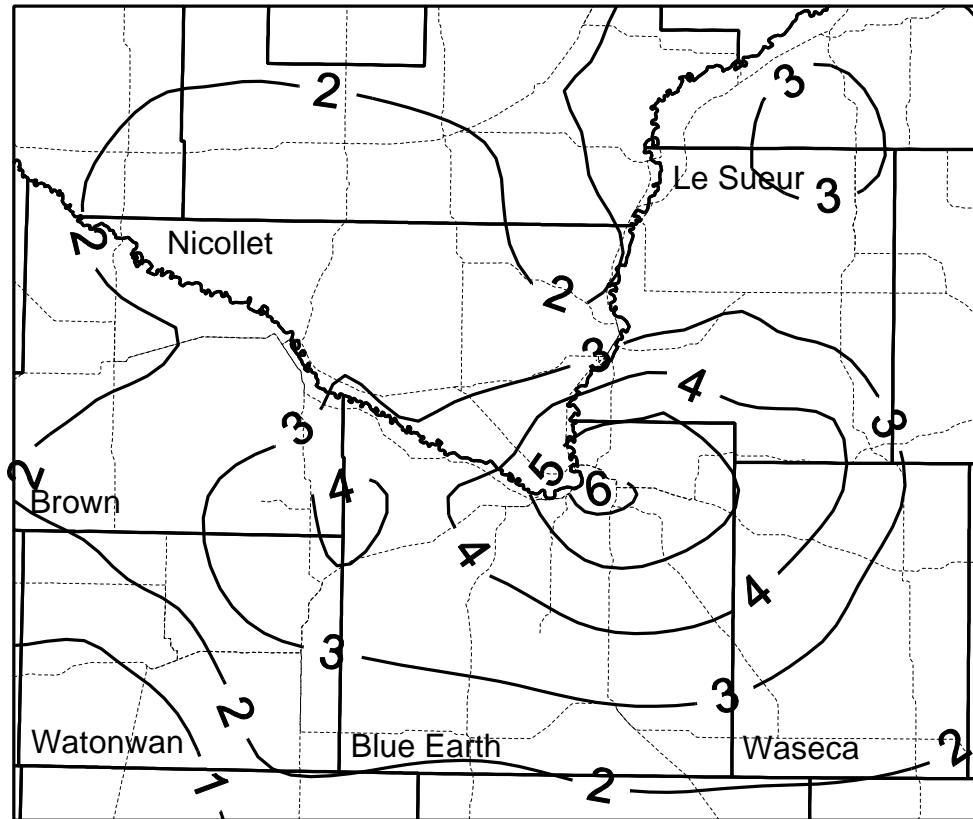


Heavy Rains over South Central Minnesota June 8-9, 2004



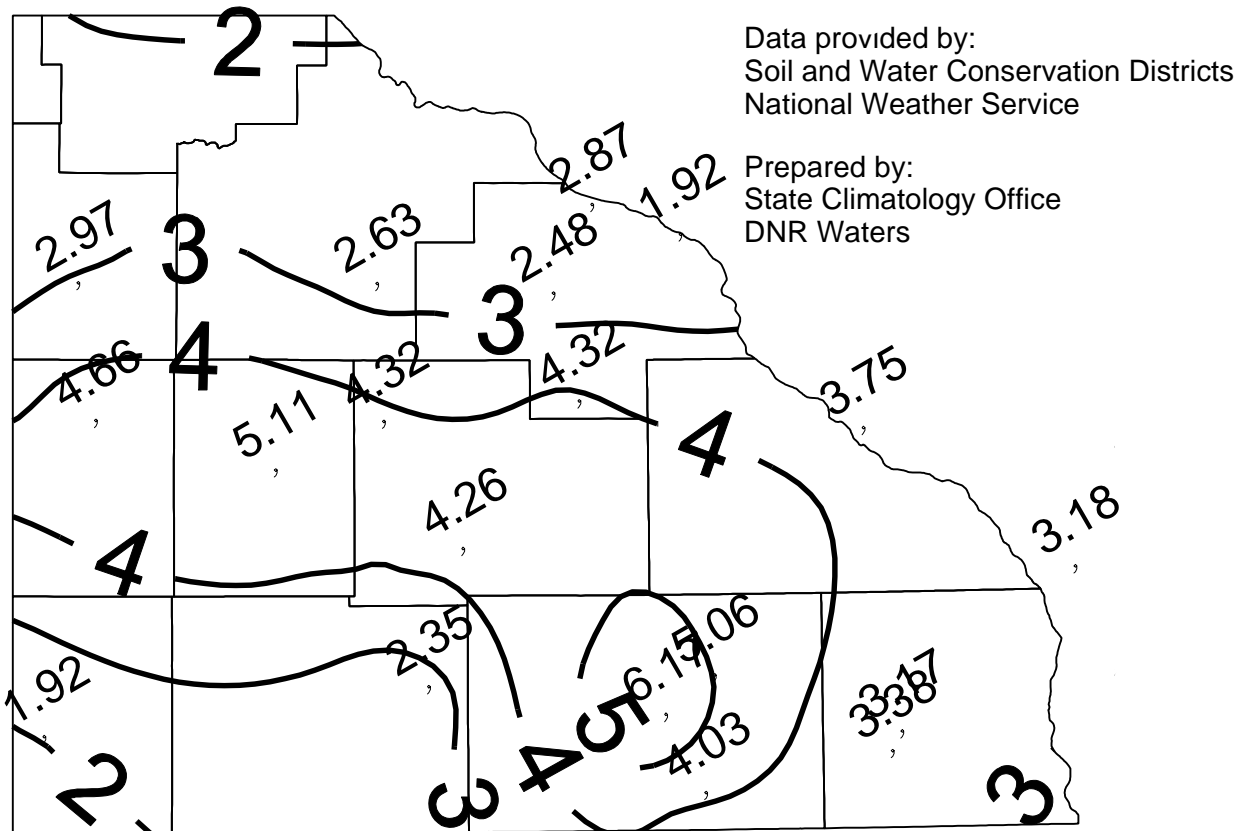
Data provided by:
Soil and Water
Conservation Districts
National Weather Service

Prepared by:
State Climatology Office
DNR Waters

24 hour rainfall totals
(in inches) through
8:00 AM - June 9, 2004

A series of thunderstorms formed along a stalled cold front over south central Minnesota and dumped very heavy rains as the storms drifted to the east. The highest total found was in Lime Township, 5 miles NE of Mankato with 7.05 inches. Another report of 7 inches was reported in North Mankato. The thunderstorms began late in the evening of June 8th with the heaviest rain falling in the wee hours of the morning on June 9th. This resulted in wet basements, overland flooding and mudslides on Highway 169 between Mankato and St. Peter. Highway 169 was closed for a time during the early morning hours of the 9th. The rain tapered off in the morning hours, but new thunderstorms redeveloped during the day.

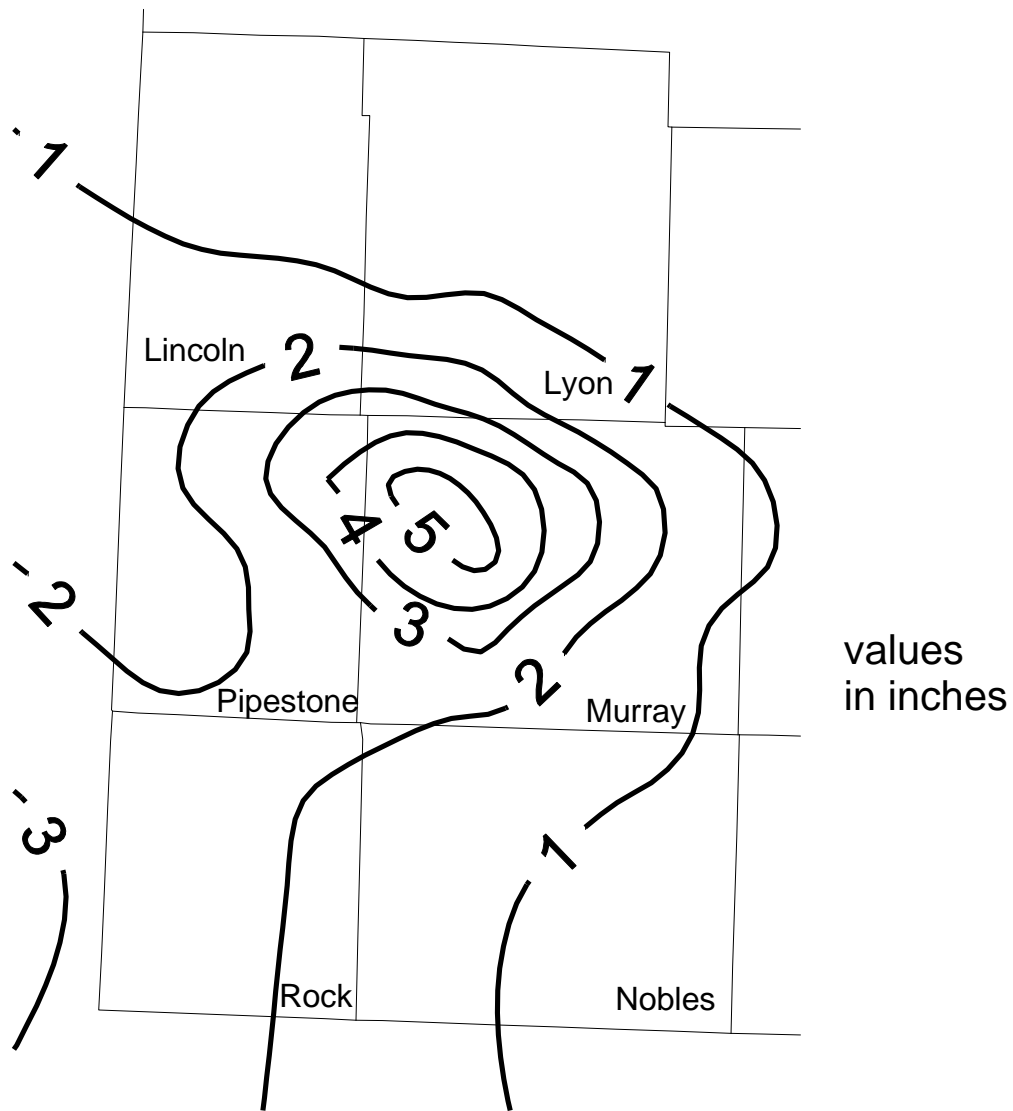
Heavy Rains Over Southeast Minnesota June 8-9, 2004



Heavy rains fell in two waves over southeast Minnesota on June 8 and 9, 2004. The remnants of the torrential rains that caused flooding and mudslides in the Mankato area drifted east over southeast Minnesota late on June 8 and into the early morning hours of June 9. Later in the morning of June 9, thunderstorms redeveloped over south central and southeast Minnesota and continued throughout the afternoon and early evening. The Rochester airport recorded 4.06 inches of rain on June 9, setting a record for the date. Another 0.20 inch had fallen on June 8, leading to a two-day total of 4.26 inches. The highest rainfall total for the period in southeast Minnesota was 6.17 inches at Preston. By late in the evening of June 9, most of the heavy rain had moved into Wisconsin. The rains fell upon soil already saturated from the heavy rains of May 2004.

The deluge led to street flooding and wet basements in Rochester. One apartment building in Rochester had water flowing through the lowest floor. Numerous accounts of water overtopping roads were reported throughout the region. A mudslide was reported across Highway 250 just north of Lanesboro.

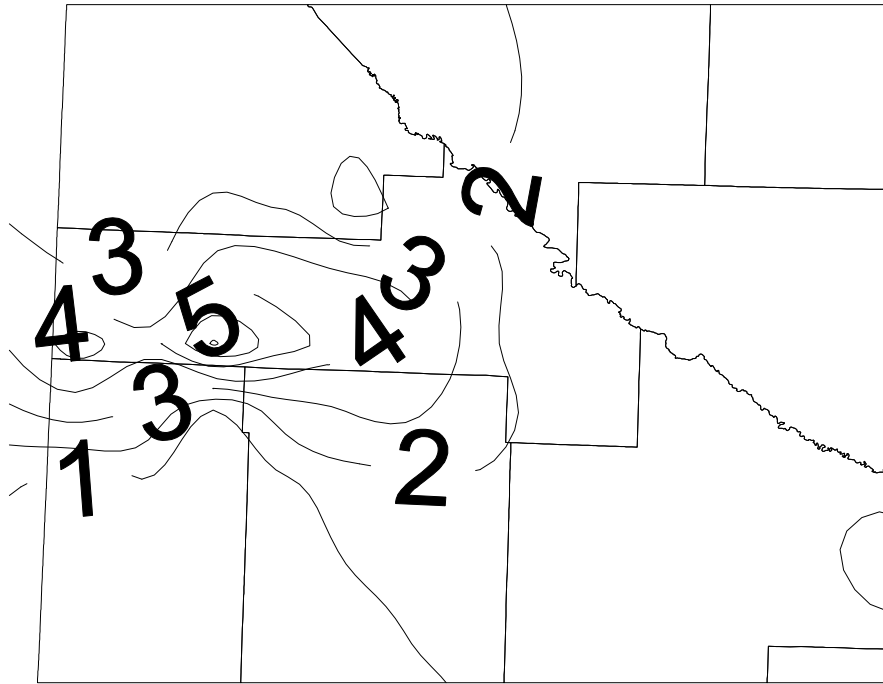
Flash Flood in Murray and Pipestone Counties June 15-16, 2004



State Climatology Office - DNR Waters

Heavy rains fell over southwest Minnesota beginning shortly before midnight on June 15th and continued through the morning hours of June 16. The highest reported total in Minnesota was 6.35 inches in Cameron Township just north of Lake Wilson. Lake Wilson received 5.56 inches of rain. The heavy rains caused severe erosion in Murray County with numerous township roads underwater. Some roads were washed out. The rains fell upon soil already saturated from the heavy rains of May, 2004.

Heavy Rains Over Southwest Minnesota August 23-24, 2004



Data Provided by:
Soil and Water
Conservation Districts
National Weather Service

Prepared by:
State Climatology Office
DNR Waters

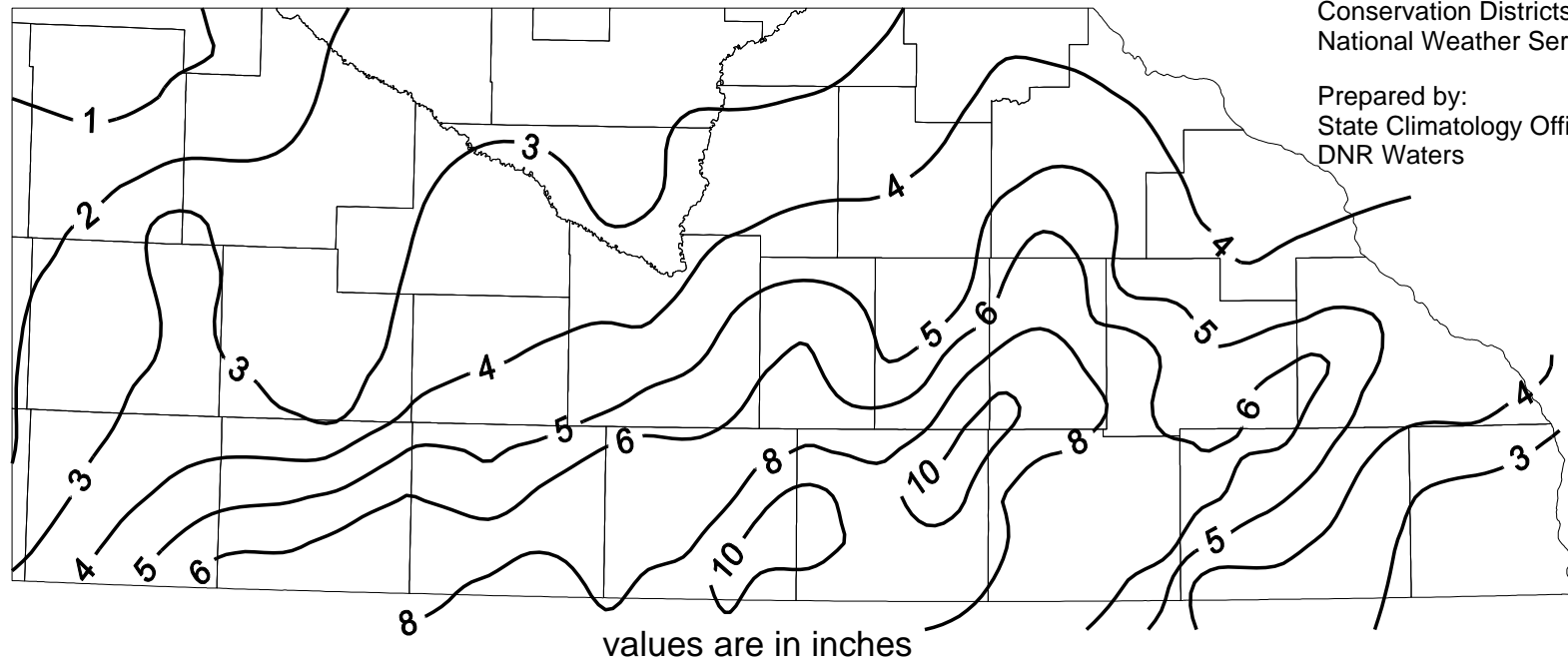
24 hour rainfall totals in inches ending at 8:00 am August 24

An area of thunderstorms developed during the afternoon of August 23rd over southwest Minnesota and drifted very slowly to the northeast before stalling over the junction of Yellow Medicine, Lyon and Lincoln Counties. The area covered by the very heavy rain was small but intense in a few areas. The highest total reported was 8.75 inches in the northeast corner of Lincoln County just south of Porter. Water ran over a few county roads in spots. The water appeared to recede rapidly and was eagerly soaked in by the ground. Another high amount was 7.14 inches just east of Porter in Yellow Medicine County. The storms diminished during the early morning hours of the 24th.

Heavy Rains Fall on Southern Minnesota September 14-15, 2004

Data Provided by:
Soil and Water
Conservation Districts
National Weather Service

Prepared by:
State Climatology Office
DNR Waters



A series of disturbances moving along a stalled frontal boundary dropped extremely heavy rain on much of northern Iowa and southern Minnesota on September 14 and 15. Nearly all of northwest and north central Iowa, and south central and southeast Minnesota received over four inches of rain. Six inch totals were common in the region and a large section of north central Iowa and south central Minnesota was inundated by more than eight inches of precipitation. The heaviest Minnesota rainfall reports were from Faribault and Freeborn counties where more the 10 inches of rain fell in a 36 hour period. The largest 36 hour total was a 13 inch value reported by an unofficial weather observer located five miles southwest of Alden in Freeborn county.