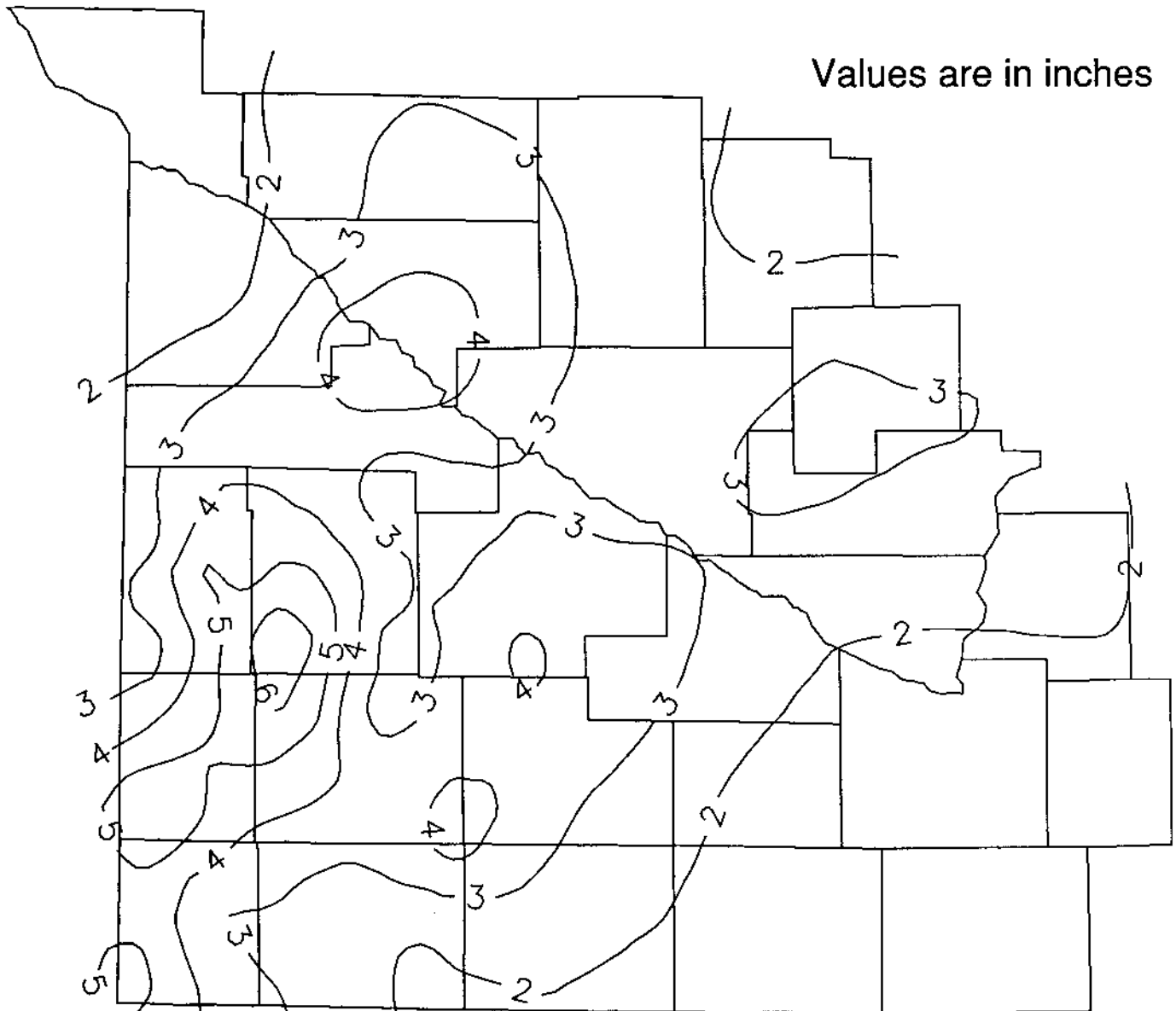


# Heavy Rains Lead to Flooding in Southwest Minnesota

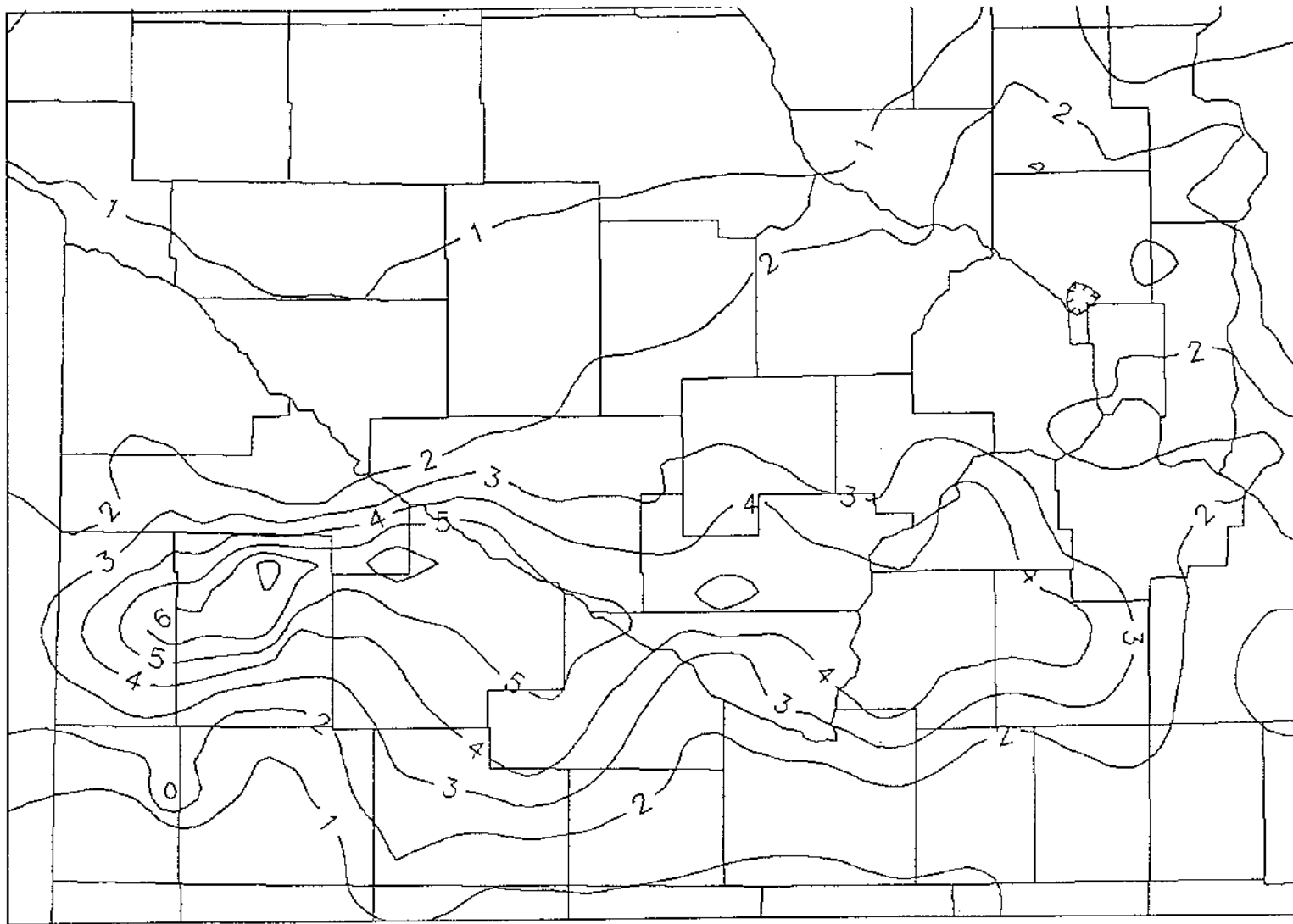
## May 6 - May 8, 1993



Over a 36 hour period, beginning on the afternoon of May 6th, successive thunderstorm complexes dropped extremely heavy rains upon the already moistened soil of southwestern and central Minnesota. The heavy rains lead to urban and rural flooding, as well as numerous washouts over a multi-county area. In addition to the heavy rains; hail, damaging straight-line winds, and tornadoes were also reported.

The first thunderstorm complex entered southwestern Minnesota during the mid-afternoon hours of May 6th and continued into the evening hours. Most locations reported one to two inches of rain from that event, however areas of McCleod county received a great deal more. The heaviest of the rains began in the late afternoon of the following day, May 7th. Rain fell through the evening and into the early morning of the 8th, dropping an additional two to five inches. The multi-day precipitation total exceeded six inches in isolated areas of Lyon, Pipestone, and Murray counties.

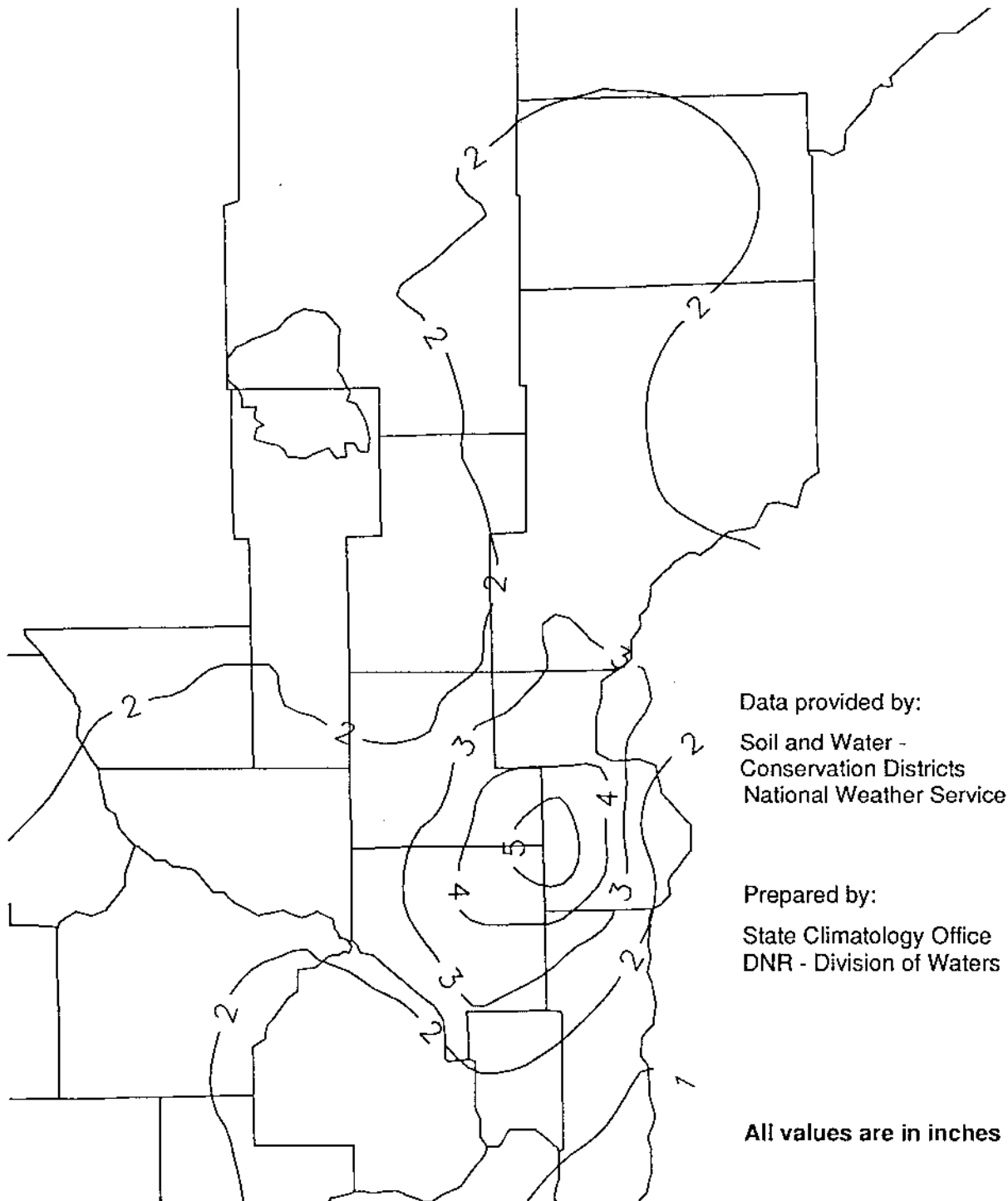
State Climatology Office, DNR - Division of Waters  
(612) 296-4214



**Heavy Rains in Southwestern Minnesota, June 16-17, 1993**

Heavy rains fell in southwest Minnesota on the evening of 16 July and continued into 17 July, 1993. This map shows the 24-hour totals for the period ending on the morning of the 17th. The largest official 24-hour total was 6.35 inches at Marshall, however, unofficial totals up to 8.20 inches were received in Lyon county. Much of the southern portions of Minnesota had also received precipitation, generally 2 inches or less, in the preceding 24 hours. Data was supplied by National Weather Service, Soil & Water Conservation Districts, and Metro Mosquito Control. Map produced by State Climatology Office, DNR-Waters.

# **Heavy Rains Fall on East Central Minnesota June 23-24, 1993**



**Heavy rains began during the late afternoon of June 23 and continued into the mid-morning hours of June 24. Rainfall totals exceeding five inches were reported in portions of Chisago, Anoka, and Isanti Counties.**

# Heavy Rains Plague Martin County - June 23-24, 1993



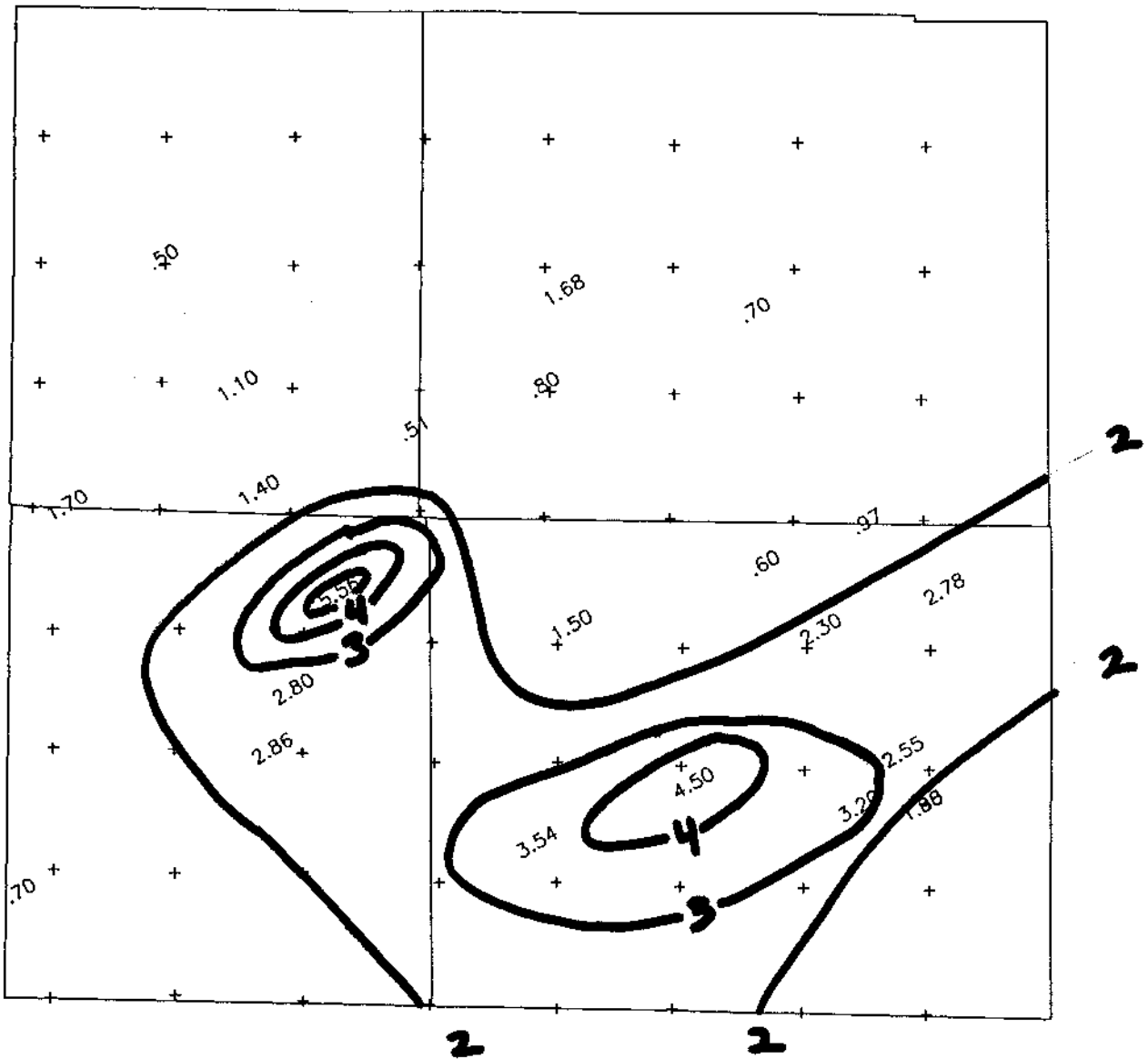
Heavy rains began during the late afternoon of June 23 and continued into the early morning of June 24. The largest single value reported by the Soil and Water Conservation District was 9.60. Unofficial values exceeding 10 inches were also reported.

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

Prepared by: State Climatology Office, DNR - Division of Waters

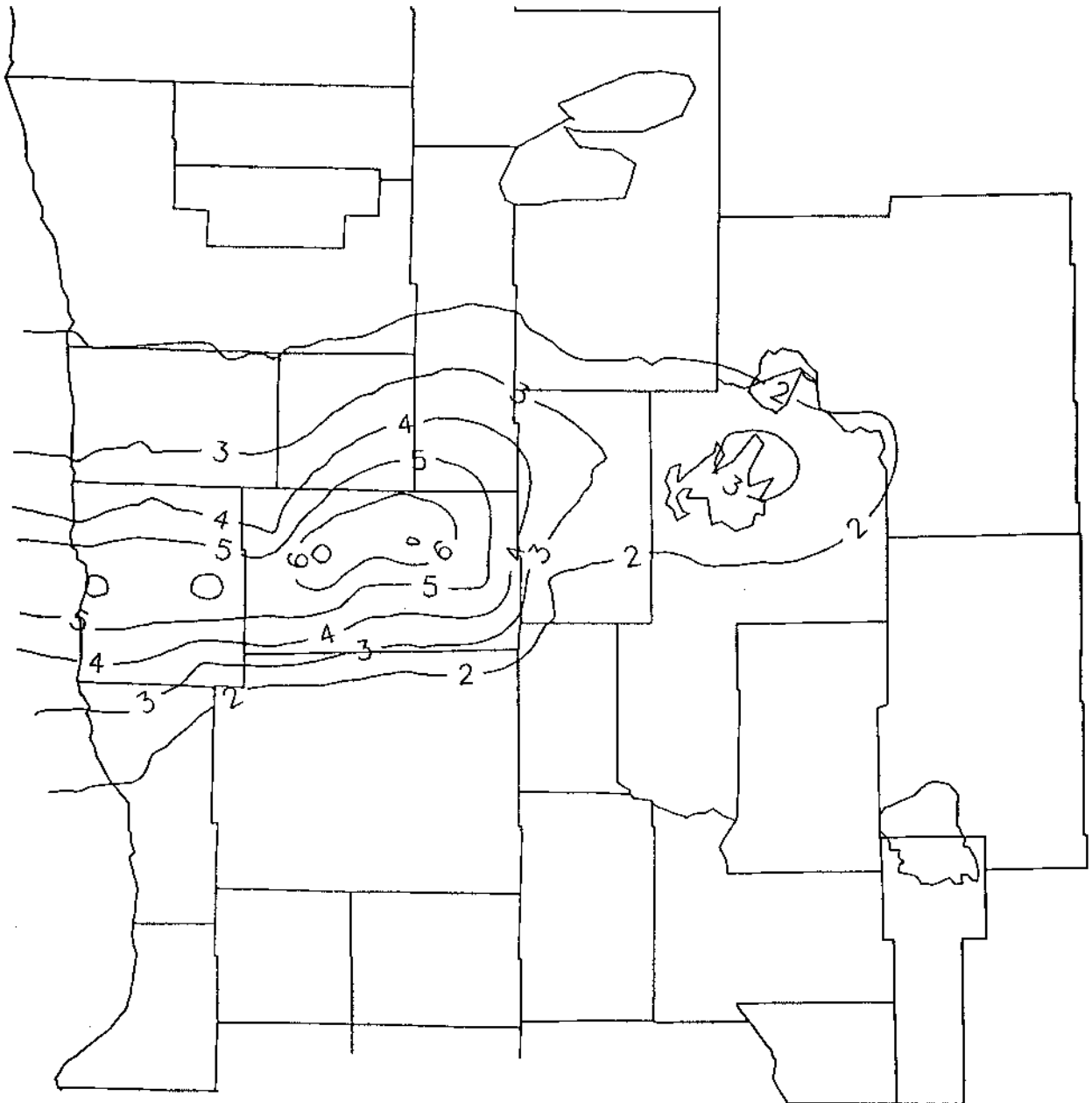
# Flash Flood - Adrian, Minnesota

## July 10, 1993



News reports indicate that seven inches of rain fell in a little over an hour in Adrian during the evening hours of Saturday, July 10. The Soil and Water Conservation District observer nearest Adrian reported 3.54 inches. A value of over five inches was reported in northeastern Rock County and over four inches was reported east of Adrian near Rushmore.

## ***Flash Flood - Northwestern Minnesota July 15 - 16, 1993***

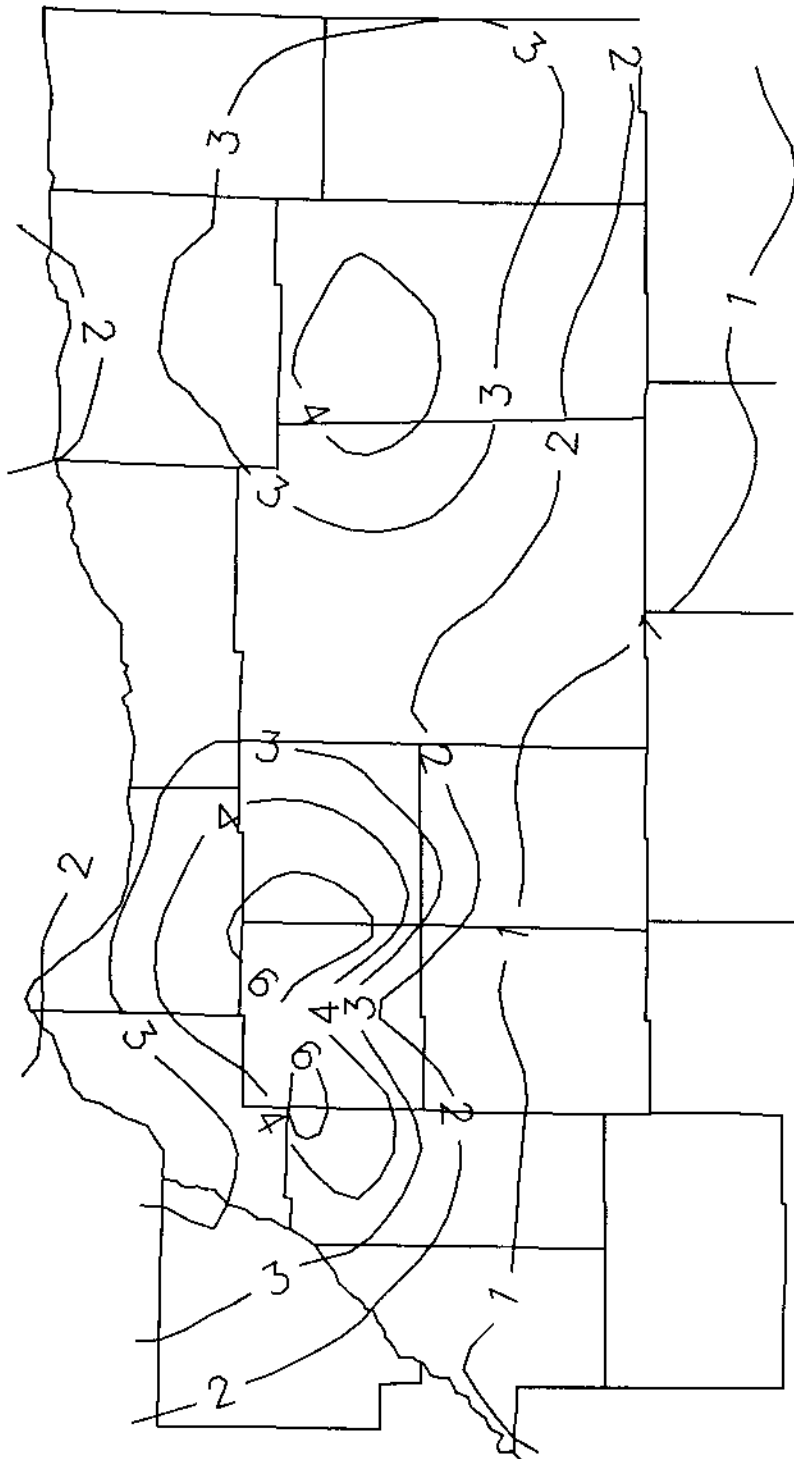


Very heavy rains swept through portions of North Dakota and Minnesota during the afternoon and evening hours of July 15th, and into the early morning hours of July 16th. The heaviest rainfall total observed in Minnesota was an unofficial report of 7.50 inches in Callaway of Becker county.

# Heavy Rains Fall on West Central Minnesota

## July 24 - 25, 1993

(Addendum)



Data provided by:

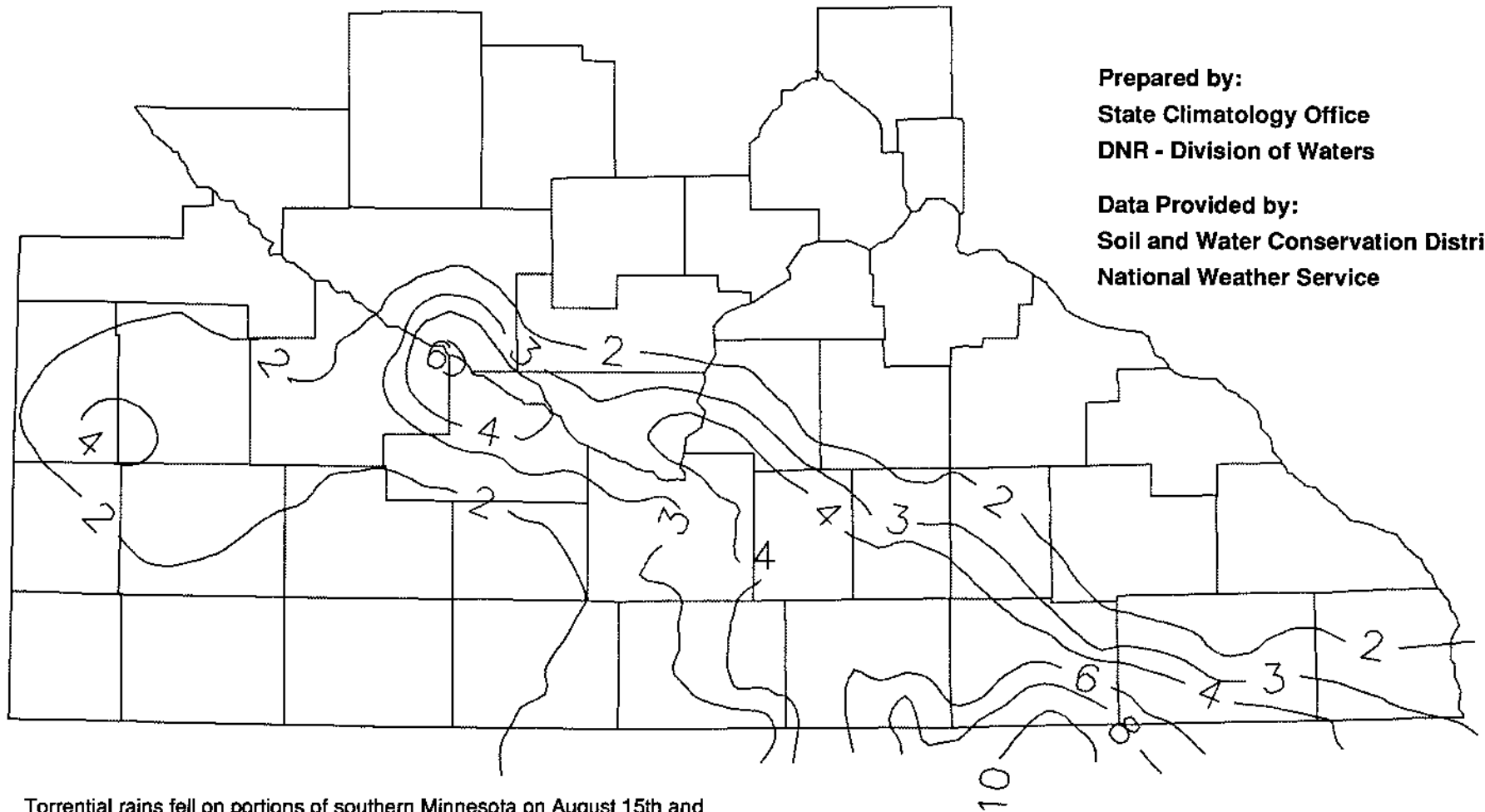
Soil and Water -  
Conservation Districts  
National Weather Service  
DNR - Forestry

Map prepared by:

State Climatology Office  
DNR - Waters

The weekly precipitation map of July 26th did not depict the heavy rainfall that fell in West Central Minnesota during the afternoon and evening of July 24, and the early morning hours of July 25. Unofficial totals of greater than eight inches were reported in northern Stevens and southern Grant counties.

# ***Torrential Rains Fall on Southern Minnesota August 15 - 16, 1993***



**Prepared by:**  
State Climatology Office  
DNR - Division of Waters

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

Torrential rains fell on portions of southern Minnesota on August 15th and 16th. Some areas received rain during the morning hours of the 15th, and then again in the evening of the 15th and the early morning hours of the 16th. For many areas the rain fell only during the evening of the 15th and early morning of the 16th. The heaviest amount reported was 10.25 in Adams of Mower County.