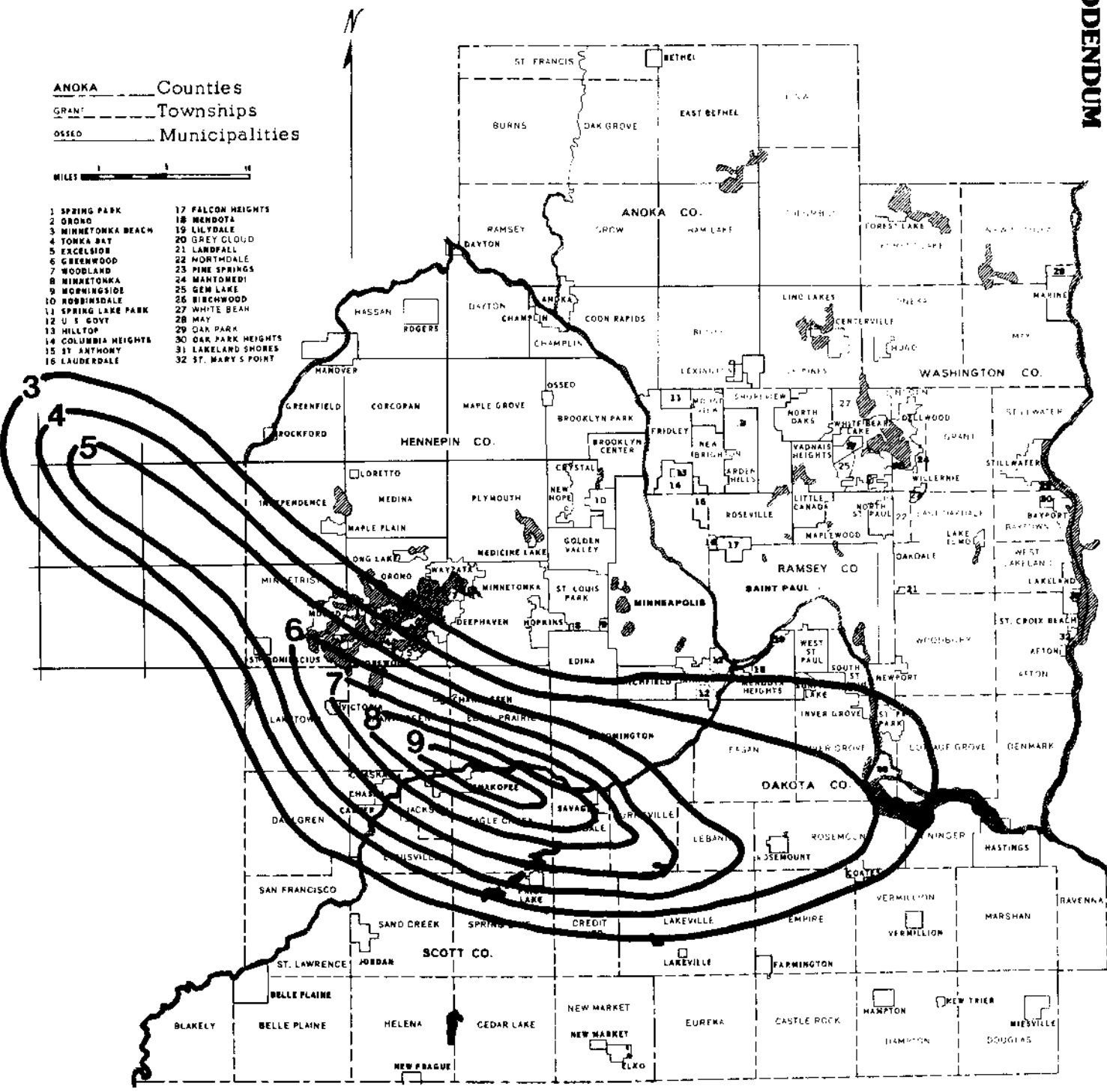


ANOKA \_\_\_\_\_ Counties  
 GRANT \_\_\_\_\_ Townships  
 OSSEO \_\_\_\_\_ Municipalities



- |                     |                     |
|---------------------|---------------------|
| 1 SPRING PARK       | 17 FALCON HEIGHTS   |
| 2 ORONO             | 18 HERDOTE          |
| 3 MINNETONKA BEACH  | 19 LILYDALE         |
| 4 TONKA BAY         | 20 GREY CLOUD       |
| 5 EXCELSIOR         | 21 LANDFALL         |
| 6 GREENWOOD         | 22 NORTHDALE        |
| 7 WOODLAND          | 23 PINE SPRINGS     |
| 8 MINNETONKA        | 24 WATONEDI         |
| 9 MORNINGSIDE       | 25 GEM LAKE         |
| 10 ROBBINSDALE      | 26 BIRCHWOOD        |
| 11 SPRING LAKE PARK | 27 WHITE BEAN       |
| 12 U S GOVT         | 28 MAY              |
| 13 HILLTOP          | 29 DAK PARK         |
| 14 COLUMBIA HEIGHTS | 30 DAK PARK HEIGHTS |
| 15 ST ANTHONY       | 31 LAKELAND SHORES  |
| 16 LAUDERDALE       | 32 ST. MARY S POINT |



SHAKOPEE/CANTERBURY DOWNS, MINNESOTA FLASH FLOOD -- JULY 20-21, 1987

A flash flood occurred during the evening of July 20 into the early morning hours of July 21, 1987. The path began northwest of Lake Minnetonka in Wright county extending southeast through Shakopee to about the Rosemount area. The greatest amount reported was 9.00" from a recording 'Sierra Tipping bucket' gage at the Canterbury Downs race track near Shakopee. The area covered by 6 inches or more was 140 square miles while the area of 4 inches or more was 470 square miles. Prepared by Earl L. Kuehnast.

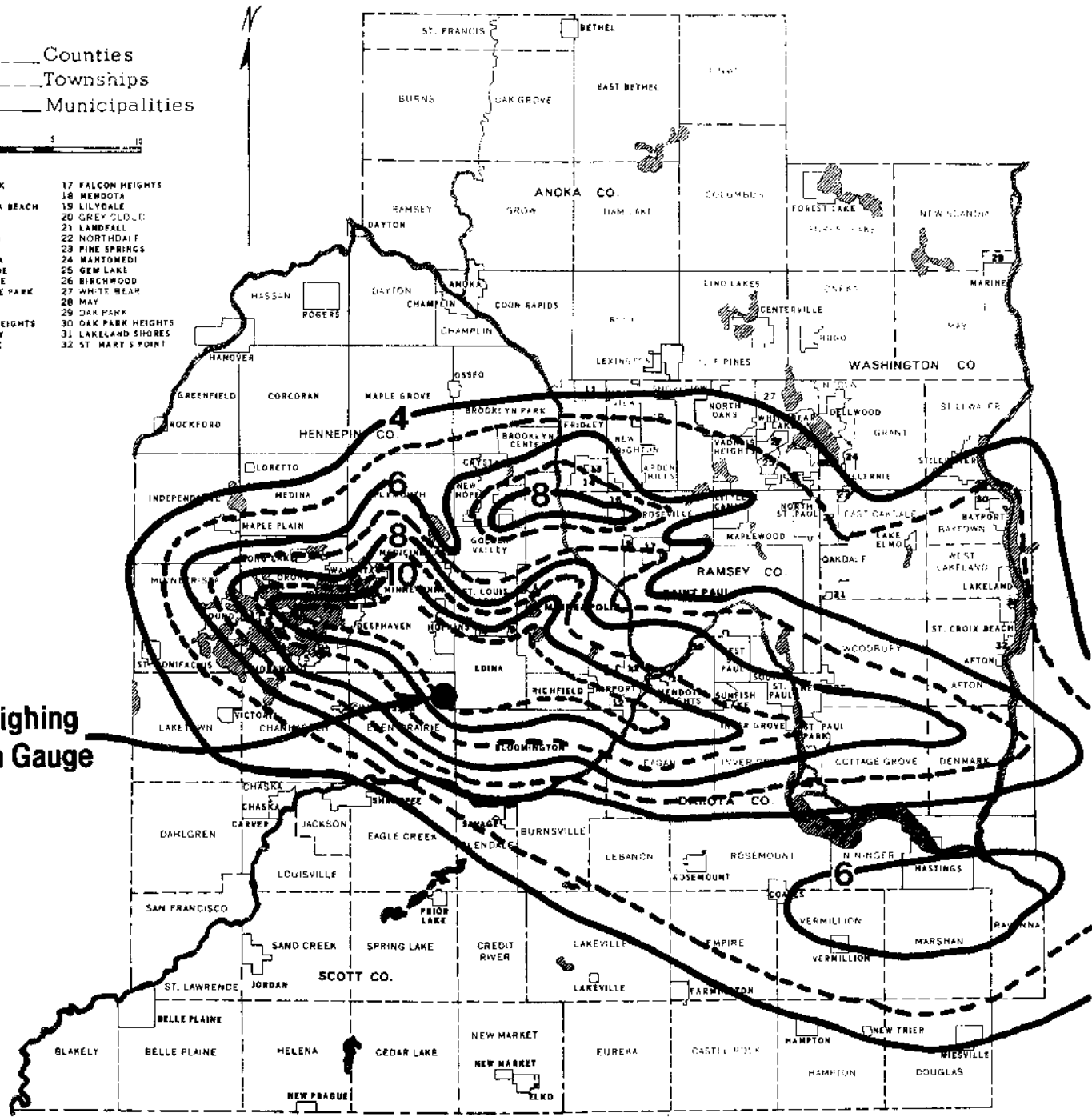
James A. Zandio  
 Minnesota Department of Natural Resources  
 State Climatology Office

ANOKA \_\_\_\_\_ Counties  
 WYMAN \_\_\_\_\_ Townships  
 OSSEO \_\_\_\_\_ Municipalities



- 1 SPRING PARK
- 2 ORONO
- 3 MINNETONKA BEACH
- 4 TONKA BAY
- 5 EXCELSIOR
- 6 GREENWOOD
- 7 WOODLAND
- 8 MINNETONKA
- 9 MORNINGSIDE
- 10 ROBBINSDALE
- 11 SPRING LAKE PARK
- 12 U. S. GOVT.
- 13 HILLTOP
- 14 COLUMBIA HEIGHTS
- 15 ST. ANTHONY
- 16 LAUDERDALE
- 17 FALCON HEIGHTS
- 18 MENDOTA
- 19 LILYDALE
- 20 GREY DULLE
- 21 LANDFALL
- 22 NORTHDALF
- 23 PINE SPRINGS
- 24 MAHTOMEDI
- 25 GEM LAKE
- 26 BIRCHWOOD
- 27 WHITE BEAR
- 28 MAY
- 29 OAK PARK
- 30 OAK PARK HEIGHTS
- 31 LAKELAND SHORES
- 32 ST. MARY'S POINT

Weighing  
Rain Gauge



WESTERN AND SOUTH CENTRAL TWIN CITIES FLASH FLOOD - JULY 23-24, 1987

The flash flood occurred generally between 7PM 23 July to 1AM 24 July, 1987. It's path was on a line from Lake Minnetonka east-southeast through Edina, Inver Grove Heights and into Wisconsin; with rain fall amounts from 6 inches to more than 11 inches. The greatest amount was 11.32 inches documented on a standard weighing rain gage. There were some greater unofficial amounts. Some 335 rainfall reports were used to draw the isohyet map. The area covered by 10 inches or more of rainfall was 93 square miles; 6 inches or more was 574 square miles and by 4 inches or more was 1460 square miles. Much of the 6 inch and greater rainfalls occurred over residential parts of the Twin Cities. To date an estimated 7000 homes have reported water damage. At this time the known costs of damages are approximately 25 million dollars.

This storm was preceded by 72 hours by a similarly oriented storm with totals exceeding 9 inches. The earlier storm fell mostly in adjacent areas to the south and west. However, two storm totals exceeded 16 inches in some areas.

The greatest official 24-hour rainfall amounts for the Twin Cities are as follows: 10.00" on July 23-24, 1987 ranks first, 7.80" in June 1892 ranks second, and 7.36" on August 30, 1977 ranks third. Prepared by Earl L. Kuehnast.

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