

Contract Report 597

**Continued Operation of a Raingage Network
for the Imperial Valley Water Authority
Year Three: September 1994 - August 1995**

by
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Prepared for the
Imperial Valley Water Authority

March 1996

Illinois State Water Survey
Atmospheric Sciences Division
Champaign, Illinois

A Division of the Illinois Department of Natural Resources

**CONTINUED OPERATION OF A RAINGAGE NETWORK
FOR THE IMPERIAL VALLEY WATER AUTHORITY
YEAR THREE: SEPTEMBER 1994 - AUGUST 1995**

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and

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REPORT

to

Imperial Valley Water Authority

on Contract

Imperial Valley 223

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March 1996

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CONTENTS

| | |
|---|----|
| LIST OF TABLES | ii |
| LIST OF FIGURES | ii |
| 1. INTRODUCTION | 1 |
| 2. NETWORK DESIGN | 2 |
| 3. NETWORK OPERATION AND MAINTENANCE | 2 |
| 4. DATA REDUCTION | 4 |
| 5. DATA ANALYSIS AND METHODOLOGIES | 4 |
| 6. SUMMARY | 16 |
| 7. ACKNOWLEDGMENTS | 16 |
| 8. REFERENCES | 16 |
| APPENDDC I: RAINGAGE SITE DESCRIPTIONS | 18 |
| APPENDDC II: INSTRUCTIONS FOR RAINGAGE TECHNICIANS | 31 |
| APPENDDC III: DOCUMENTATION OF RAINGAGE MAINTENANCE | 33 |
| APPENDDC IV: MONTHLY PRECIPITATION VARIABILITY AT EACH SITE _____ | 34 |
| APPENDDC V: DOCUMENTATION OF HEAVY STORM AMOUNTS | 37 |

LIST OF TABLES

| | |
|--|----|
| Table 1. Monthly and Year Three Precipitation Amounts for September 1994 to August 1995 (inches). | 5 |
| Table 2. Number of Rain Days, Rain Events, Total Rainfall, Inches of Rain per Rain Day, and Inches of Rain per Rain Event for each Month and Season for the 1992-1993, 1993-1994, and 1994-1995 Observation Years. | 13 |

LIST OF FIGURES

| | |
|---|----|
| Figure 1. Configuration of the 25-site Imperial Valley Water Authority raingage network. | 3 |
| Figure 2. Precipitation pattern (inches) for September 1994-August 1995. | 6 |
| Figure 3. Precipitation pattern (inches) for September 1994 (a), October 1994 (b). | 7 |
| Figure 4. Precipitation pattern (inches) for November 1994 (a), December 1994 (b) | 8 |
| Figure 5. Precipitation pattern (inches) for January 1995 (a), February 1995 (b). | 9 |
| Figure 6. Precipitation pattern (inches) for March 1995 (a), April 1995 (b). | 10 |
| Figure 7. Precipitation pattern (inches) for May 1995 (a), June 1995 (b). | 11 |
| Figure 8. Precipitation pattern (inches) for July 1995 (a), August 1995 (b). | 12 |
| Figure 9. Monthly average precipitation for the three network years. | 14 |
| Figure 10. Time series of network average monthly precipitation for September 1992 - August 1995. | 15 |

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1. INTRODUCTION

Regional precipitation variability affects irrigation water demand on an aquifer, the recharge of the aquifer, and the density of wells and irrigation systems required for agriculture and water supplies. These factors all impact any required water withdrawal allocations from an aquifer. Therefore, knowledge of the precipitation variability over an extensively irrigated region, such as the area within the Imperial Valley Water Authority (IVWA), should provide useful information for the management of ground-water resources in that region.

At present, the measurement of precipitation is best accomplished by deployment of a network of raingages of sufficient areal density for a long period of time. A relatively dense raingage spacing is needed to capture both summertime convection, which can be quite variable, and more widespread wintertime events. A relatively long time period is necessary to capture short-term climatological shifts such as abnormally wet or dry periods and even normal periods. Such networks provide the data necessary to understand the variability of precipitation patterns both spatially and temporally, and thus the spatial and temporal variations in the recharge of the soil and ground water within the network area. The data help identify the extent of areas susceptible to heavy irrigation water use and/or areas of poor recharge. Combined with ground-water data, these precipitation data can provide the inputs needed for estimates of recharge to the ground-water resources within the network area.

During the last 40 years, the Illinois State Water Survey (ISWS) has operated raingage networks of varying areal gage densities over various time periods in both rural and urban areas. Sampling requirements, as determined from these past studies (e.g., Huff, 1970), indicate that a 2- to 3-mile gridded raingage spacing should be adequate for properly capturing convective precipitation systems (spring and summer), while a 6-mile spacing is adequate for more widespread precipitation-producing systems (fall and winter). Compromises within these ranges are acceptable in a rural setting. The weighing-bucket raingage, used by the National Weather Service, provides precise and reliable precipitation measurements. Given the size of the IVWA area and the above spacing guidelines, a gridded, 25-site raingage network with approximately 5 miles between gages was proposed.

The ISWS itself has a long-term interest in precipitation measurement and related research, and has performed precipitation research in areas such as hydrology, weather modification, and urban influences on precipitation climate. The data collected by a raingage network such as the IVWA Network would be used in similar research.

An agreement was reached between the IVWA and the ISWS in spring 1992, and the 25-site network was deployed in late August 1992. Results of the first (September 1992-August 1993) and second (September 1993-August 1994) years of network operation are reported in Peppier and Hollinger (1994, 1995). This report documents the operation, maintenance, data reduction and analysis, and management of the network during its third

year of operation (September 1994-August 1995). Data showing the differences among the first three years of operation are included. Several appendices document the actual raingage sites, instructions for raingage technicians, raingage maintenance, unusually large precipitation events recorded during the year, monthly precipitation variability at each of the sites, and total rainfall during each storm period in the first three years of operation.

2. NETWORK DESIGN

Figure 1 shows the layout of the raingage network as designed in the summer of 1992. Descriptions of construction of the IVWA Network and the type and setup of the weighing-bucket raingages used to collect precipitation are given in Peppier and Hollinger (1994). Appendix I gives complete site description information for each network raingage location as of August 31, 1995.

3. NETWORK OPERATION AND MAINTENANCE

During the third year of operation, local observers continued to perform weekly raingage maintenance at 11 sites, while the other 14 raingages were handled by a retired ISWS scientist living in Champaign. Each raingage was serviced every 6 to 11 days. Servicing included removing and replacing the current chart, checking the felt-tipped pen to make sure it was inking properly, dumping the bucket contents from approximately April through October, and noting any unusual problems, including chart-drive malfunction, gage imbalance or instability, vandalism, unauthorized movement of the gage, etc. During the warm season, evaporation shields were fitted into the collection orifice above the bucket to minimize evaporation. During the cold season, a 1-quart charge of antifreeze was added to each raingage bucket so that any frozen precipitation collected would be melted to allow a proper weight reading. Approximately once a week the local observers and the ISWS scientist mailed and/or delivered a complete set of 25 charts to the ISWS. Refer to Appendix II for a complete description of servicing instructions for raingage observers.

As needed, the Champaign-based scientist visited the network to perform maintenance and repairs. This usually consisted of a site assessment of an observer-noted problem and the determination of a solution. Because most problems pertained to the chart drives, the usual solution was to adjust or replace the chart drive. If replaced, the defective chart drive was cleaned and readied for reuse at the ISWS. Other typical problems, mentioned above, were also solved on these trips. Appendix III documents non-routine maintenance or repairs, including any site relocations, for the 25 raingages during year three.

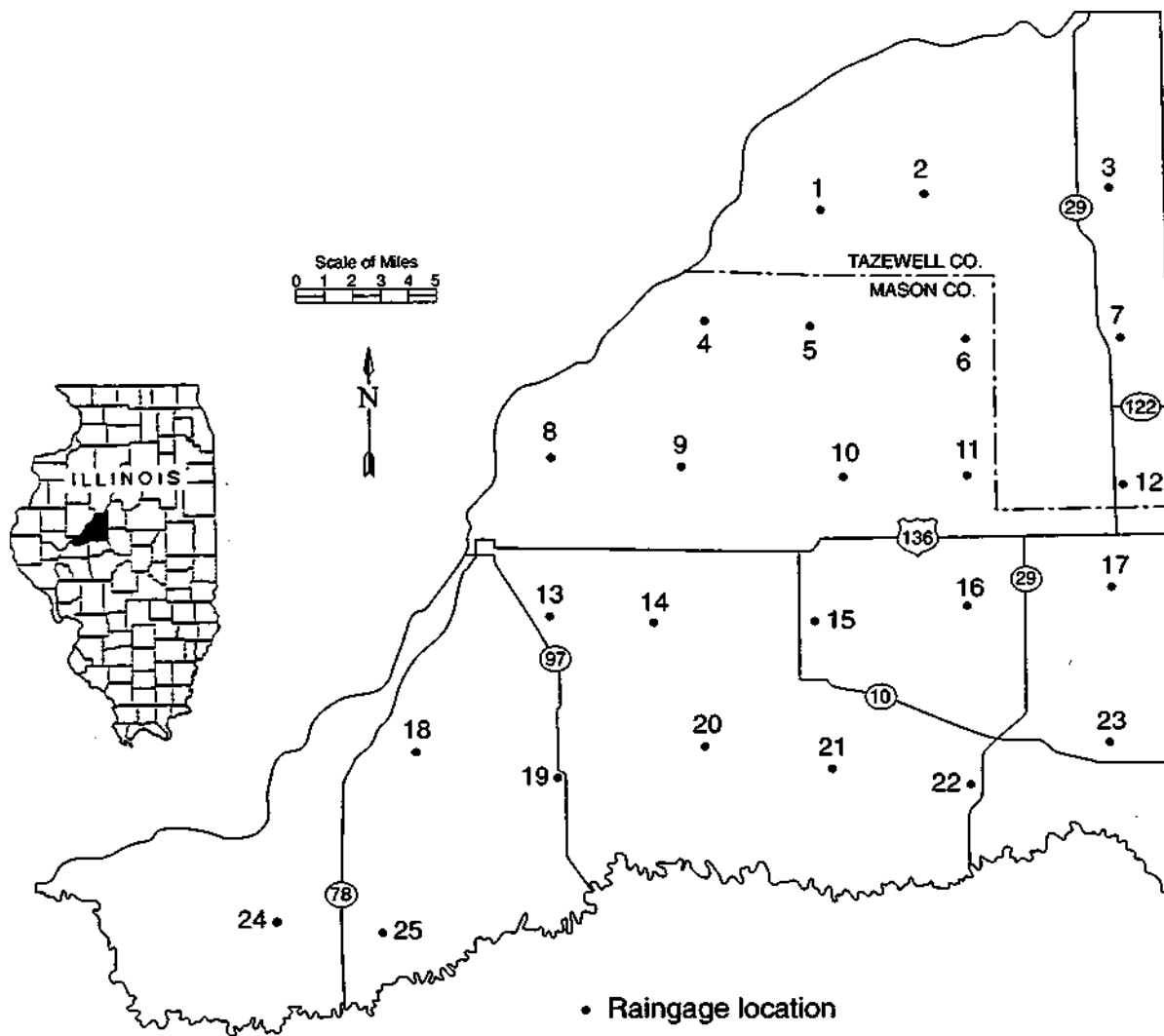


Figure 1. Configuration of the 25-site Imperial Valley Water Authority raingage network

4. DATA REDUCTION

Data reduction activities during year three of network operation included those performed during years one and two. Please see Peppier and Hollinger (1994) for complete details on these tasks. In addition, the number of storm events and storm days at each station were computed. A storm day was defined as any day that measurable precipitation was recorded at a given station. Precipitation events were defined by the first hour that rainfall was recorded and continued through each consecutive hour that precipitation occurred. If there was a break of at least one hour in precipitation, the next hour with measured precipitation was considered a new rain event.

Network storm periods were also defined. A storm period is defined as a precipitation event separated from preceding and succeeding events across the network by approximately three hours.

5. DATA ANALYSIS AND METHODOLOGIES

Table 1 contains monthly and annual (September 1994-August 1995) precipitation amounts for each site in the IVWA Network. Corresponding analyses are contained in Figure 2 (annual) and Figures 3-8 (monthly). Figure 9 shows a time line of average network precipitation during the September-August period for each year (1992-1993, 1993-1994, 1994-1995) and Figure 10 for the combined three-year period.

Table 1 and Figure 2 show that totals for the year ranged from 48.68 inches at Site #19 just north of Kilbourne to 34.59 inches at Site #6 in northeast Mason County. (Site #19 recorded the largest amount of precipitation during the first two years of network operation as well.) Eleven sites reported more than 40 inches for the 12-month period. The network average was 39.42 inches, 1.21 inches less than the 1993-1994 average and 16.13 inches less than the 1992-1993 average. Compared to 1961-1990 normal values at the Havana and Mason City National Weather Service cooperative stations (37.24 and 35.08 inches, respectively), the third-year average was still 2 to 4 inches above what would be considered normal for the region.

Monthly analyses in Figures 3-8 (see Table 1 for specific amounts) show that May 1995 (Figure 7a) was by far the wettest month of the year (10.33-inch network average), followed by April 1995 (Figure 6b, 4.87-inch average), November 1994 (Figure 4a, 3.37-inch average), and October 1994 (Figure 3b, 3.34-inch average). Rainfall in May was heaviest in the southern portion of the region (Figure 7a), while in April the largest precipitation amounts were reported in the northern portion (Figure 6b). The precipitation gradient across the region in both October (Figure 3b) and November (Figure 4a) was generally from west to east, with the highest rainfall occurring in the west.

September 1994 and February and March 1995 were the driest months, with each recording less than 2 inches. During September, the driest portion of the region was in the west (Figure 3a). In February the entire region received less than 1 inch of precipitation (Figure 5b), and in March there was a southeast to northwest gradient of precipitation across the region (Figure 6a).

Table 1. Monthly and Year Three Precipitation Amounts for September 1994 to August 1995 (inches)

| Site# | Month | | | | | | | | | | | | Mean |
|-------|-------|------|------|------|------|------|------|------|-------|------|------|------|-------|
| | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | |
| 1 | 1.40 | 3.01 | 3.71 | 2.32 | 1.77 | 0.53 | 1.67 | 5.08 | 9.95 | 2.23 | 3.53 | 2.22 | 37.42 |
| 2 | 1.72 | 3.52 | 3.89 | 2.69 | 3.32 | 0.64 | 2.09 | 5.47 | 9.88 | 4.14 | 3.13 | 2.35 | 42.84 |
| 3 | 1.67 | 2.86 | 3.05 | 2.57 | 2.55 | 0.45 | 1.81 | 5.06 | 8.39 | 1.79 | 2.43 | 2.25 | 34.84 |
| 4 | 1.17 | 3.67 | 3.66 | 2.38 | 2.89 | 0.51 | 1.50 | 5.45 | 9.16 | 1.48 | 2.85 | 2.28 | 37.00 |
| 5 | 1.31 | 3.20 | 3.25 | 2.45 | 2.48 | 0.52 | 1.70 | 5.34 | 9.53 | 2.14 | 2.64 | 2.50 | 37.06 |
| 6 | 1.71 | 3.07 | 2.75 | 2.45 | 2.47 | 0.46 | 1.86 | 5.61 | 8.09 | 2.31 | 1.84 | 1.97 | 34.59 |
| 7 | 2.59 | 2.87 | 2.94 | 2.52 | 2.82 | 0.60 | 1.98 | 5.24 | 8.38 | 2.03 | 2.30 | 3.27 | 37.54 |
| 8 | 0.98 | 3.15 | 3.35 | 2.15 | 2.59 | 0.55 | 1.63 | 5.13 | 10.00 | 0.96 | 2.66 | 2.25 | 35.40 |
| 9 | 1.21 | 3.48 | 3.30 | 2.26 | 2.82 | 0.63 | 1.70 | 5.04 | 10.09 | 1.94 | 3.13 | 2.20 | 37.80 |
| 10 | 1.37 | 3.48 | 2.98 | 2.54 | 2.66 | 0.62 | 1.77 | 5.19 | 9.99 | 1.60 | 2.49 | 2.12 | 36.81 |
| 11 | 1.74 | 2.96 | 2.94 | 2.28 | 2.43 | 0.61 | 2.06 | 5.23 | 8.77 | 1.86 | 2.26 | 1.77 | 34.91 |
| 12 | 2.51 | 2.92 | 3.13 | 2.39 | 3.02 | 0.66 | 2.25 | 5.63 | 9.50 | 2.26 | 3.75 | 4.34 | 42.36 |
| 13 | 1.54 | 3.69 | 3.33 | 2.30 | 3.02 | 0.67 | 1.79 | 5.08 | 11.69 | 2.61 | 2.87 | 2.32 | 40.91 |
| 14 | 1.11 | 3.62 | 2.69 | 2.37 | 2.95 | 0.61 | 1.52 | 4.37 | 11.18 | 3.03 | 2.27 | 3.56 | 39.28 |
| 15 | 1.50 | 3.72 | 3.06 | 2.22 | 3.30 | 0.66 | 1.85 | 4.93 | 11.09 | 2.73 | 0.78 | 2.44 | 32.28 |
| 16 | 1.93 | 2.67 | 3.32 | 2.25 | 2.97 | 0.54 | 2.25 | 4.85 | 9.78 | 4.09 | 2.65 | 3.01 | 40.31 |
| 17 | 1.78 | 2.77 | 3.39 | 2.09 | 3.30 | 0.57 | 2.26 | 4.93 | 10.71 | 3.58 | 2.80 | 3.98 | 42.16 |
| 18 | 1.03 | 3.88 | 3.87 | 2.43 | 2.86 | 0.63 | 1.85 | 4.66 | 13.17 | 2.98 | 3.57 | 2.54 | 43.47 |
| 19 | 1.19 | 4.47 | 3.78 | 2.49 | 4.14 | 0.80 | 2.32 | 4.81 | 12.94 | 4.80 | 3.24 | 3.70 | 48.68 |
| 20 | 1.19 | 3.66 | 3.15 | 2.11 | 3.04 | 0.75 | 1.90 | 4.25 | 10.93 | 2.50 | 3.27 | 3.44 | 40.19 |
| 21 | 1.40 | 3.25 | 3.38 | 1.96 | 3.14 | 0.51 | 2.49 | 4.45 | 10.40 | 3.50 | 2.74 | 3.15 | 40.37 |
| 22 | 2.12 | 2.93 | 3.68 | 1.97 | 2.82 | 0.59 | 2.20 | 3.86 | 11.88 | 4.85 | 2.15 | 4.39 | 43.44 |
| 23 | 1.49 | 2.54 | 3.40 | 2.04 | 3.10 | 0.47 | 2.23 | 3.85 | 10.74 | 2.48 | 2.44 | 4.55 | 39.33 |
| 24 | 0.87 | 4.07 | 3.81 | 2.05 | 2.99 | 0.74 | 1.85 | 4.10 | 11.57 | 2.44 | 4.13 | 2.80 | 41.42 |
| 25 | 0.82 | 3.93 | 4.55 | 2.05 | 3.00 | 0.89 | 1.79 | 4.22 | 10.56 | 1.99 | 2.36 | 2.99 | 39.15 |
| Avg | 1.49 | 3.34 | 3.37 | 2.29 | 2.90 | 0.61 | 1.93 | 4.87 | 10.33 | 2.65 | 2.73 | 2.90 | 39.42 |

Rainfall gradients during the rest of the year were: northwest to southeast in January (Figure 5a, highest in the north); southeast to northwest in June (Figure 7b, highest in the southeast); west to east in July (Figure 8a, highest in the west); southeast to northwest in August (Figure 8b, highest in the southeast); and nearly uniform rainfall during December (Figure 4b). August shows the strongest gradient of rainfall across the region.

Above normal rainfall in April and May across the network resulted in the greatest spring (March-May) rainfall total in the three years of network operation (Table 2). During the spring of 1995 an average of 40 rain events occurred across the region on 29 days. In the springs of 1993 and 1994 there were 31 and 23 rain days, respectively. The difference between the 1993 and 1995 springs was the size of the individual rain events. In 1995 each rain day received an average of 0.60 inches, and each rain event produced an average of 0.43 inches, while in 1993 there were more storms and rain days, but each rain event averaged only 0.24 inches and each rain day 0.38 inches.

Autumn and summer of the third year of network operation were the driest of the three years. During September, October, and November of 1994, an average of 8.20 inches of rain was received across the region. This rain came in an average of 24 rain events over an average of 19 days. Autumn of 1994 had the fewest rain days and events of the three

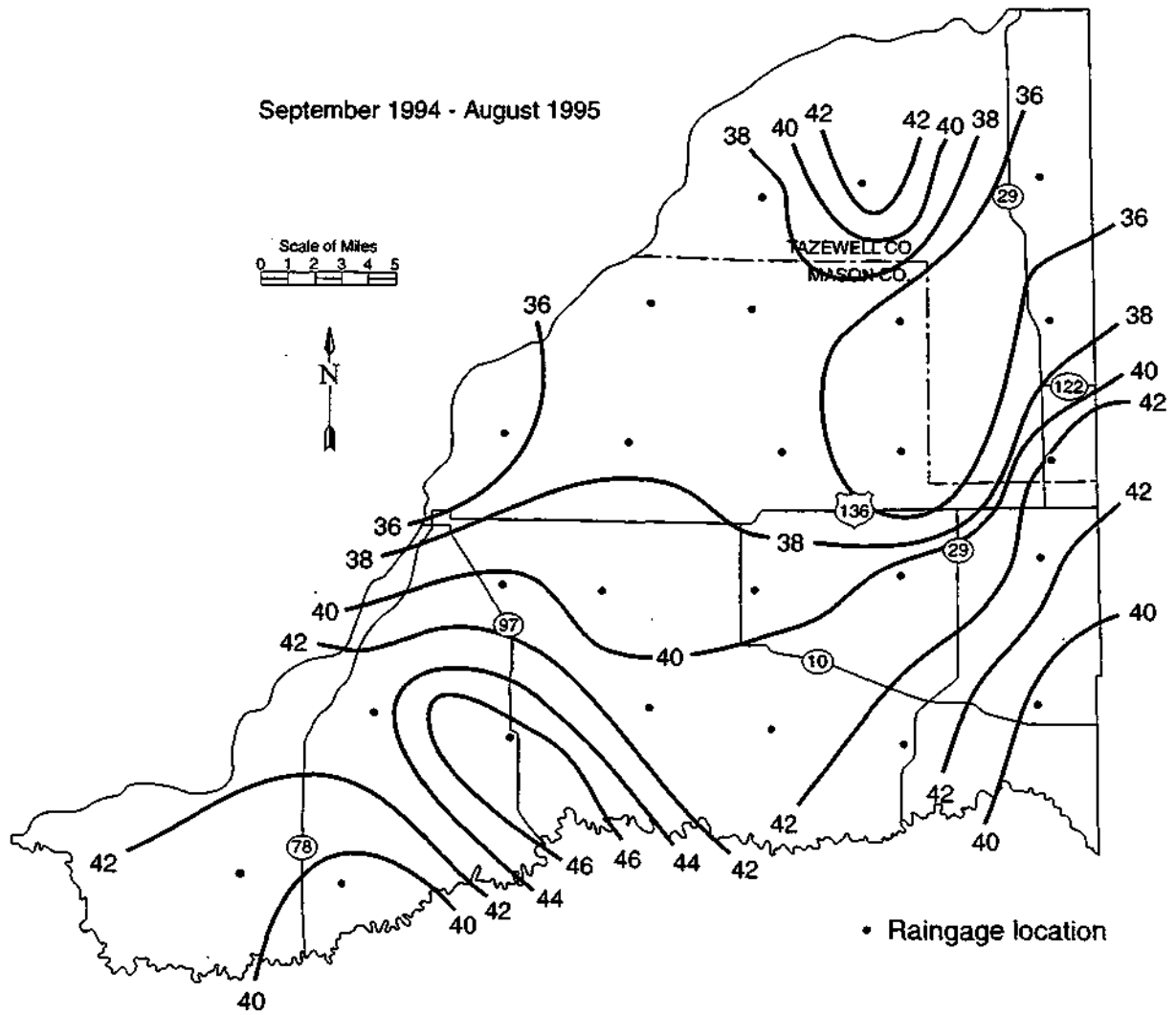


Figure 2. Precipitation pattern (inches) for September 1994-August 1995

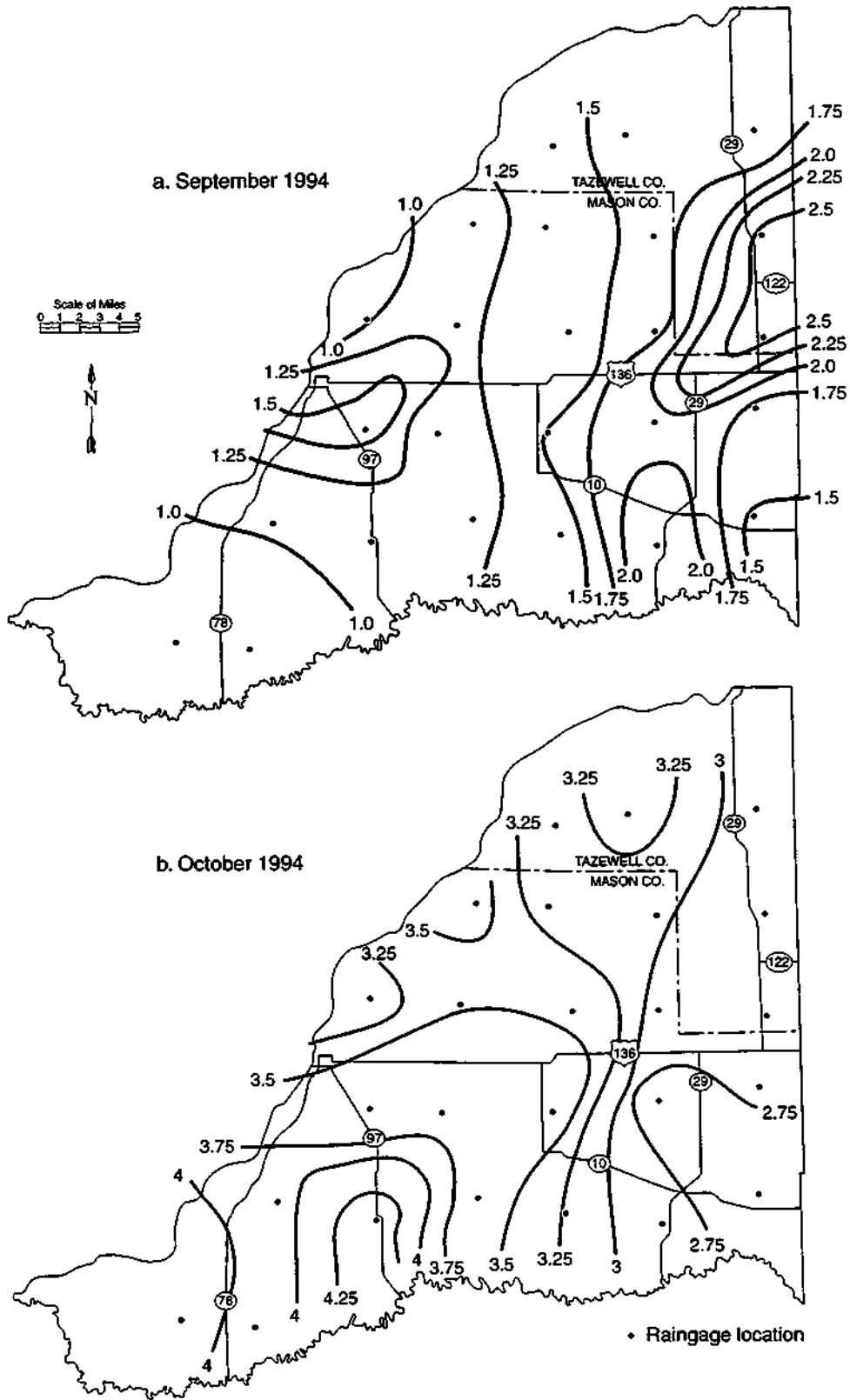


Figure 3. Precipitation pattern (inches) for September 1994 (a), October 1994 (b)

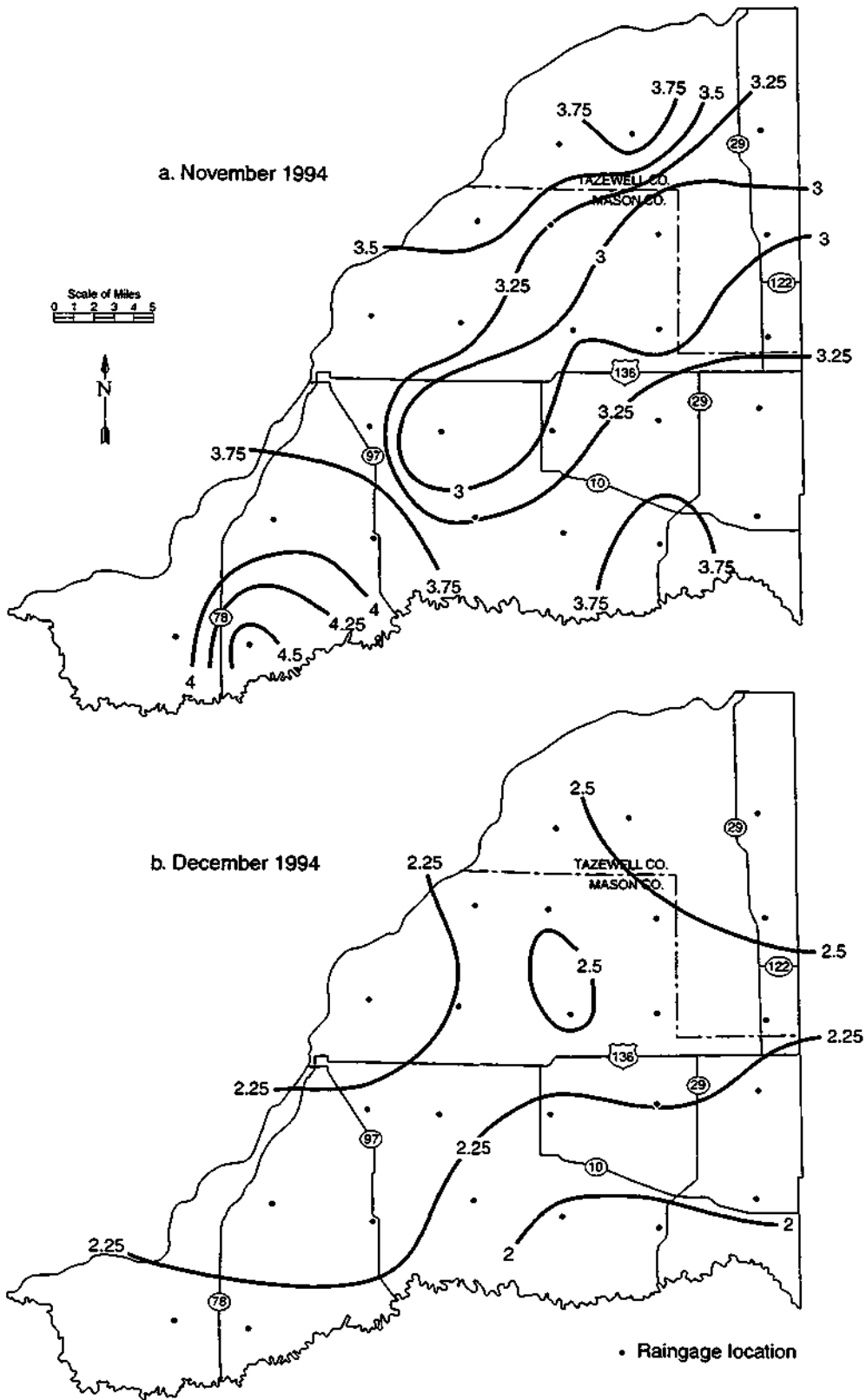


Figure 4. Precipitation pattern (inches) for November 1994 (a), December 1994 (b)

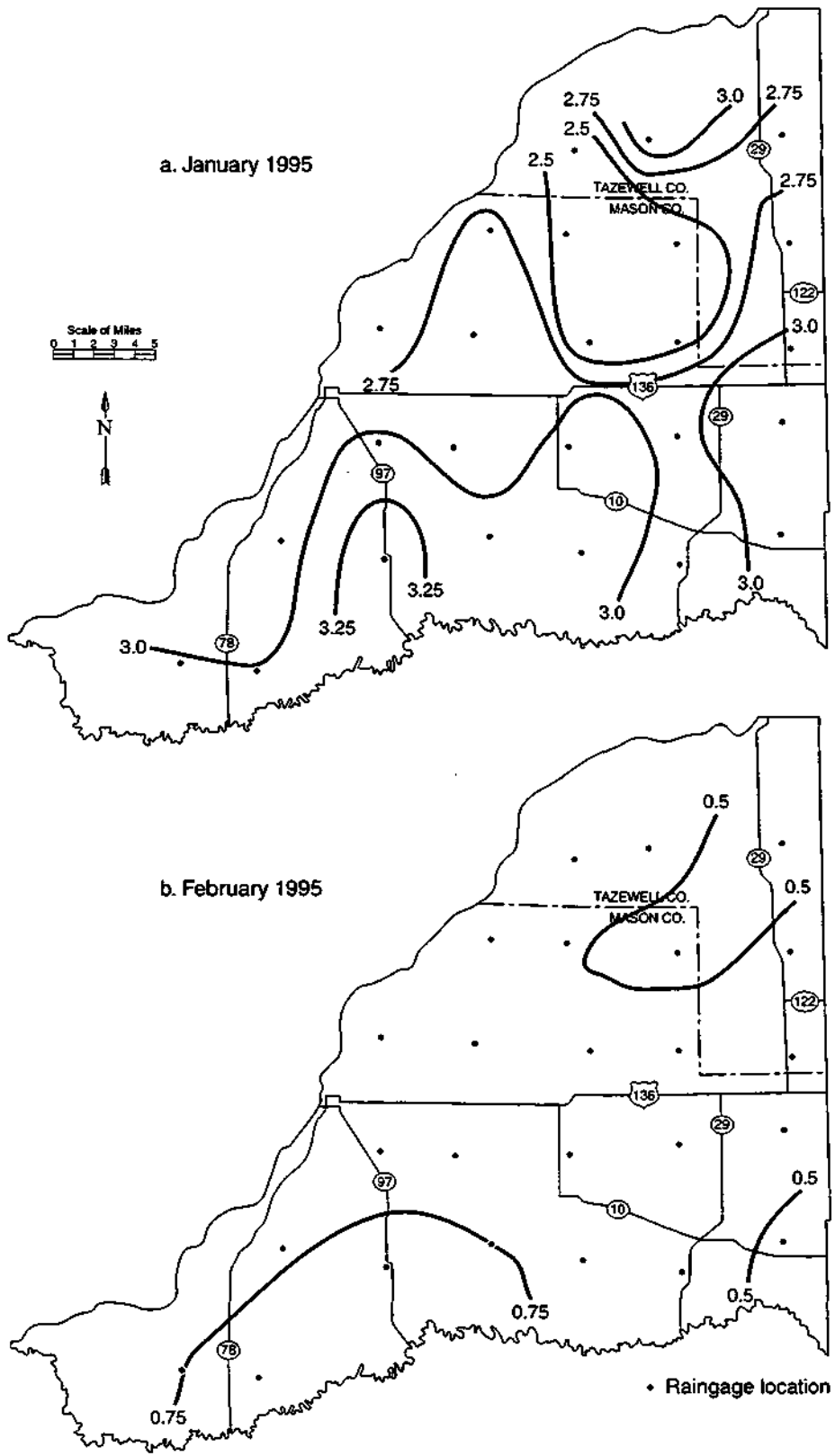


Figure 5. Precipitation pattern (inches) for January 1995 (a), February 1995 (b)

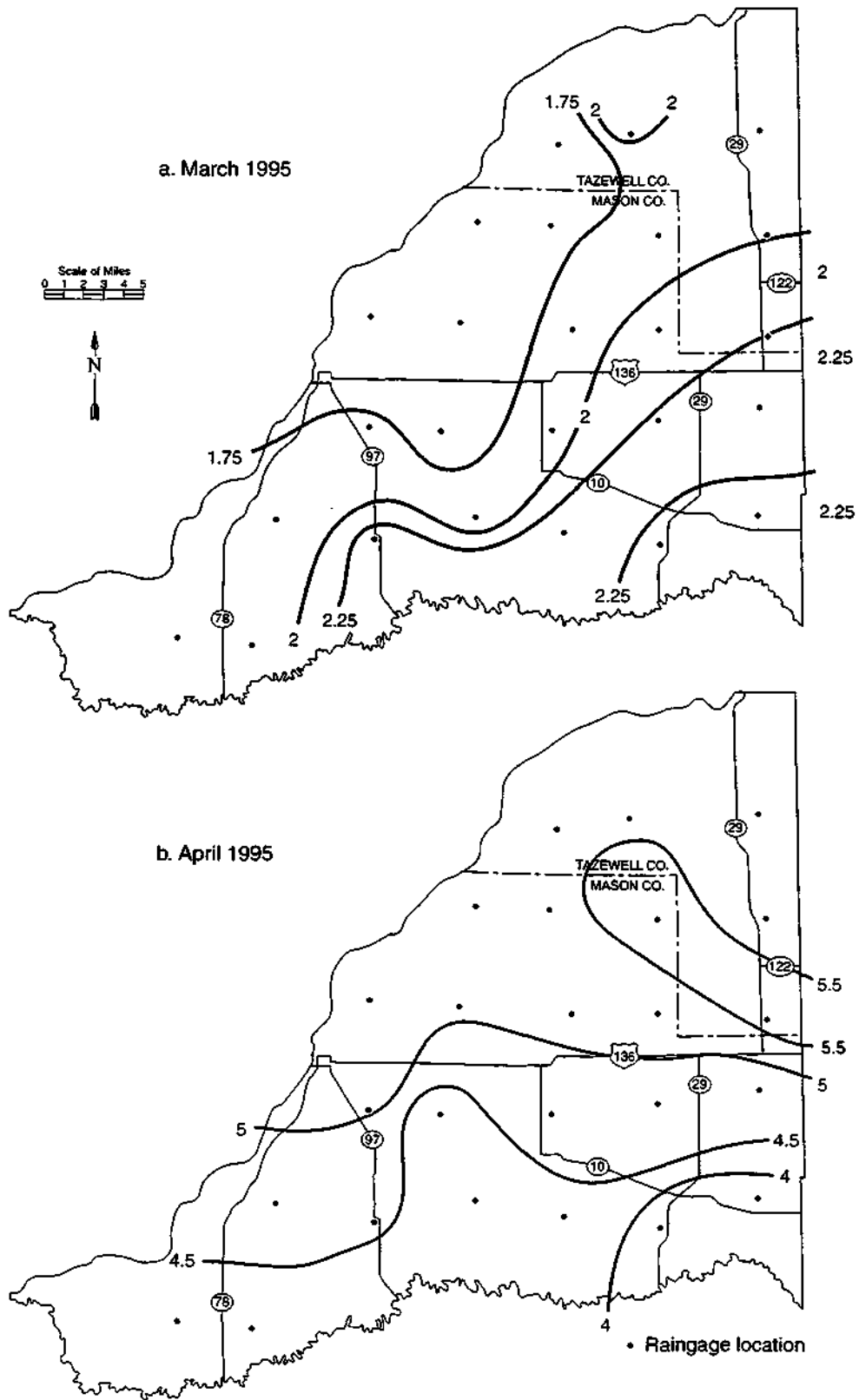


Figure 6. Precipitation pattern (inches) for March 1995 (a), April 1995 (b)

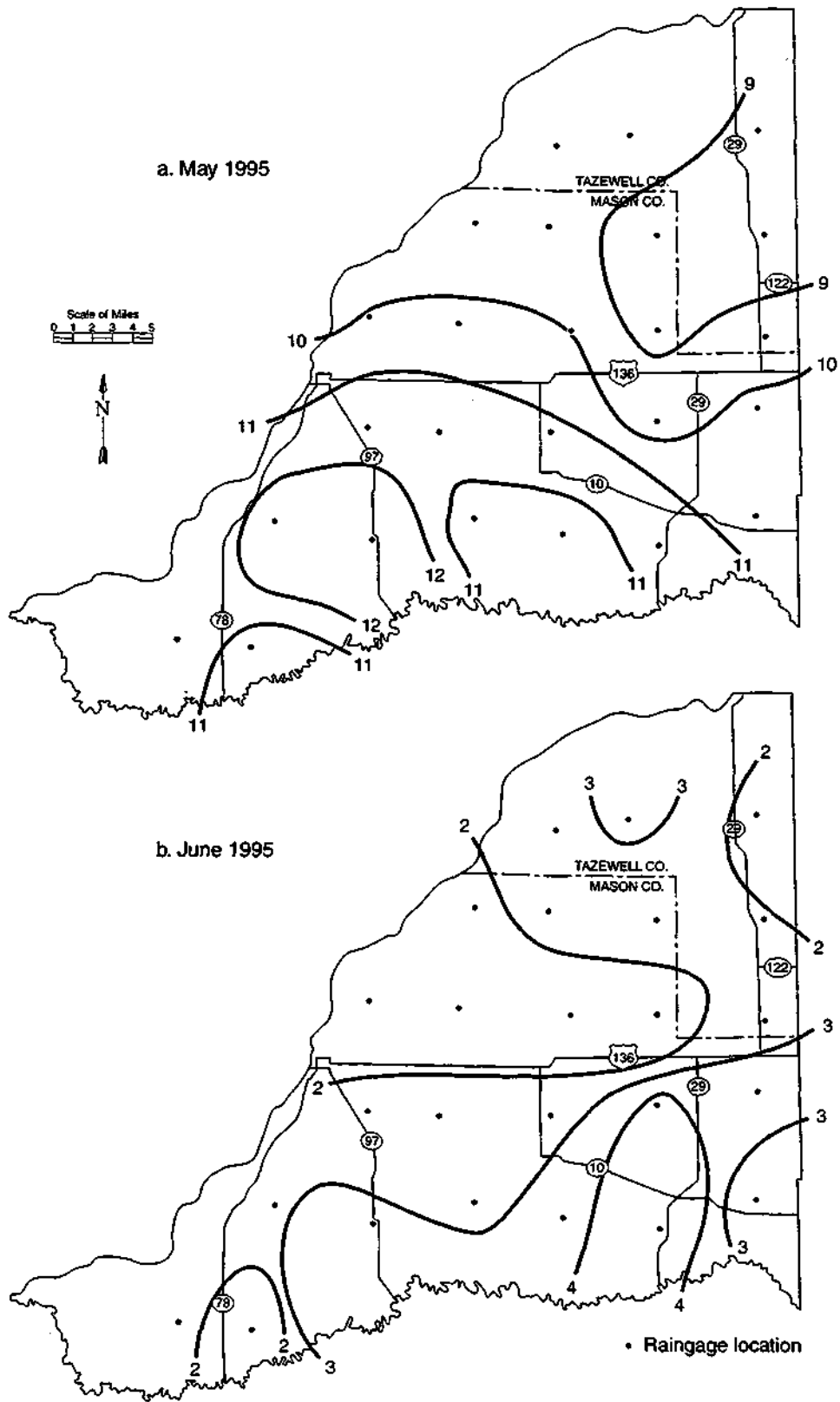


Figure 7. Precipitation pattern (inches) for May 1995 (a), June 1995 (b)

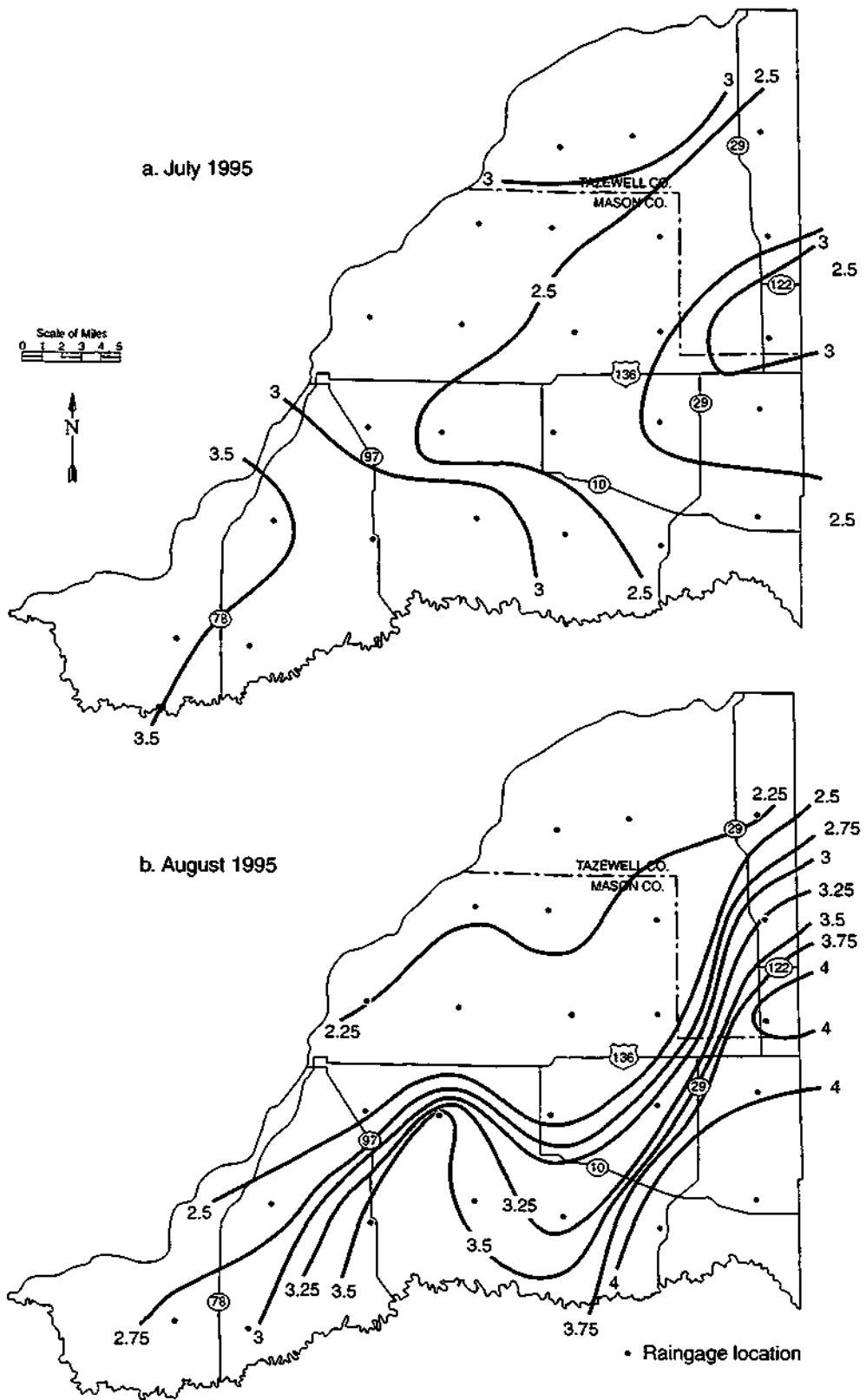


Figure 8. Precipitation pattern (inches) for July 1995 (a), August 1995 (b)

Table 2. Number of Rain Days, Rain Events, Total Rainfall, Inches of Rain per Rain Day, and Inches of Rain per Rain Event for each Month and Season for the 1992-1993, 1993-1994, and 1994-1995 Observation Years

| <i>Period</i> | <i>1992-1993</i> | | | | | <i>1993-1994</i> | | | | | <i>1994-1995</i> | | | | |
|---------------|------------------|---------------|-----------------|----------------|-----------------|------------------|---------------|-----------------|----------------|-----------------|------------------|---------------|-----------------|----------------|-----------------|
| | <i>Days</i> | <i>Events</i> | <i>Rainfall</i> | <i>In./Day</i> | <i>In/Event</i> | <i>Days</i> | <i>Events</i> | <i>Rainfall</i> | <i>In./Day</i> | <i>In/Event</i> | <i>Days</i> | <i>Events</i> | <i>Rainfall</i> | <i>In./Day</i> | <i>In/Event</i> |
| September | 8.4 | 12.1 | 4.21 | 0.50 | 0.35 | 8.1 | 11.7 | 11.56 | 1.43 | 0.99 | 4.7 | 7.8 | 1.49 | 0.32 | 0.19 |
| October | 7.6 | 11.0 | 2.00 | 0.26 | 0.18 | 5.3 | 6.2 | 2.97 | 0.56 | 0.48 | 5.3 | 7.6 | 3.34 | 0.63 | 0.44 |
| November | 11.8 | 19.1 | 6.35 | 0.54 | 0.33 | 8.9 | 13.1 | 2.59 | 0.29 | 0.20 | 8.7 | 12.2 | 3.37 | 0.39 | 0.28 |
| December | 7.8 | 12.0 | 2.82 | 0.36 | 0.24 | 6.5 | 10.2 | 1.11 | 0.17 | 0.11 | 5.3 | 5.8 | 2.29 | 0.43 | 0.39 |
| January | 7.9 | 12.8 | 3.52 | 0.45 | 0.28 | 5.6 | 8.4 | 0.96 | 0.17 | 0.11 | 5.2 | 7.6 | 2.90 | 0.56 | 0.38 |
| February | 7.0 | 11.4 | 1.64 | 0.23 | 0.14 | 6.6 | 8.6 | 1.64 | 0.25 | 0.19 | 2.9 | 3.0 | 0.61 | 0.21 | 0.20 |
| March | 9.8 | 17.3 | 3.85 | 0.39 | 0.22 | 3.8 | 4.6 | 0.96 | 0.25 | 0.21 | 5.0 | 6.6 | 1.93 | 0.39 | 0.29 |
| April | 10.3 | 16.5 | 5.25 | 0.51 | 0.32 | 12.8 | 17.2 | 5.03 | 0.39 | 0.29 | 11.8 | 15.0 | 4.87 | 0.41 | 0.32 |
| May | 10.4 | 14.8 | 2.61 | 0.25 | 0.18 | 6.1 | 10.7 | 3.11 | 0.51 | 0.29 | 11.7 | 18.4 | 10.33 | 0.88 | 0.56 |
| June | 9.8 | 14.7 | 6.27 | 0.64 | 0.43 | 9.6 | 12.8 | 3.19 | 0.33 | 0.25 | 10.2 | 12.8 | 2.65 | 0.26 | 0.21 |
| July | 15.8 | 22.4 | 11.05 | 1.40 | 0.98 | 5.8 | 6.5 | 3.44 | 0.59 | 0.53 | 9.2 | 12.6 | 2.73 | 0.30 | 0.22 |
| August | 11.7 | 14.2 | 5.99 | 0.51 | 0.42 | 7.7 | 9.6 | 3.66 | 0.48 | 0.38 | 9.4 | 13.0 | 2.90 | 0.31 | 0.22 |
| Fall | 27.8 | 42.2 | 12.56 | 0.45 | 0.30 | 22.3 | 31.0 | 17.12 | 0.77 | 0.55 | 18.7 | 24.1 | 8.20 | 0.44 | 0.34 |
| Winter | 22.7 | 36.2 | 7.97 | 0.35 | 0.22 | 18.7 | 27.2 | 3.70 | 0.20 | 0.14 | 13.4 | 16.4 | 5.80 | 0.43 | 0.35 |
| Spring | 30.5 | 48.6 | 11.71 | 0.38 | 0.24 | 22.7 | 32.5 | 9.10 | 0.40 | 0.28 | 28.5 | 40.0 | 17.14 | 0.60 | 0.29 |
| Summer | 37.3 | 51.3 | 23.31 | 0.62 | 0.45 | 23.1 | 28.9 | 10.29 | 0.45 | 0.36 | 28.8 | 38.4 | 8.28 | 0.29 | 0.22 |
| Annual | 118.3 | 178.3 | 55.55 | 0.47 | 0.31 | 86.8 | 119.6 | 40.21 | 0.46 | 0.34 | 89.4 | 122.4 | 39.42 | 0.44 | 0.32 |

autumns. The most rain events and rain days occurred in 1992. However, the greatest amount of rain was received during the autumn of 1993. The larger quantity of rain in 1993 was therefore due to larger storm events and greater average rainfall per rain day (Table 2). The summer of 1993 was the wettest of the three summers, and also had the most rain days and rain events during June, July, and August. The average size of the summer rain events and the average rain received per rain day in 1993 were also the largest of the three summers.

The 1994-1995 winter season (December-February) had the fewest precipitation days and events of the three winters. However, the individual precipitation events were larger than in the other two years (Table 2). Winter was the driest of the seasons across the three years of network operation.

Over the three years of observations, April is the month with the least year-to-year variability of precipitation (Figure 9). Eight months (September, November, February, March, April, June, July, and August) during 1994-1995 experienced rainfall below the three-year monthly averages. In the first year of operation (1992-1993) nine months received more rainfall than the three-year monthly means. In the second year of operation (1993-1994) nine months received less precipitation than the corresponding three-year monthly means. The extreme wetness of the first year of operation can be seen in Figure 10. During the period from 1992 to 1993 only two months had less than 2 inches of rainfall. In the second year there were four months with less than 2 inches of precipitation, and in the third year there were three months. In each year of operation there was at least one month with rainfall greater than 10 inches: July in 1992-1993, September in 1993-1994, and May in 1994-1995. During the first year there were five months with more than 5 inches of precipitation, in the second year only two months received more than 5 inches of precipitation, and in the third year only one month.

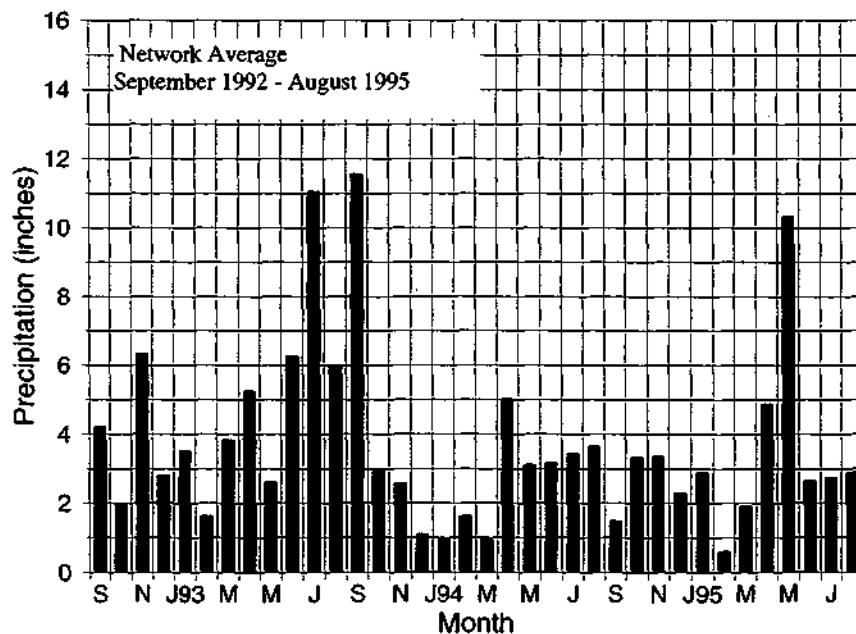


Figure 9. Monthly average precipitation for the three network years

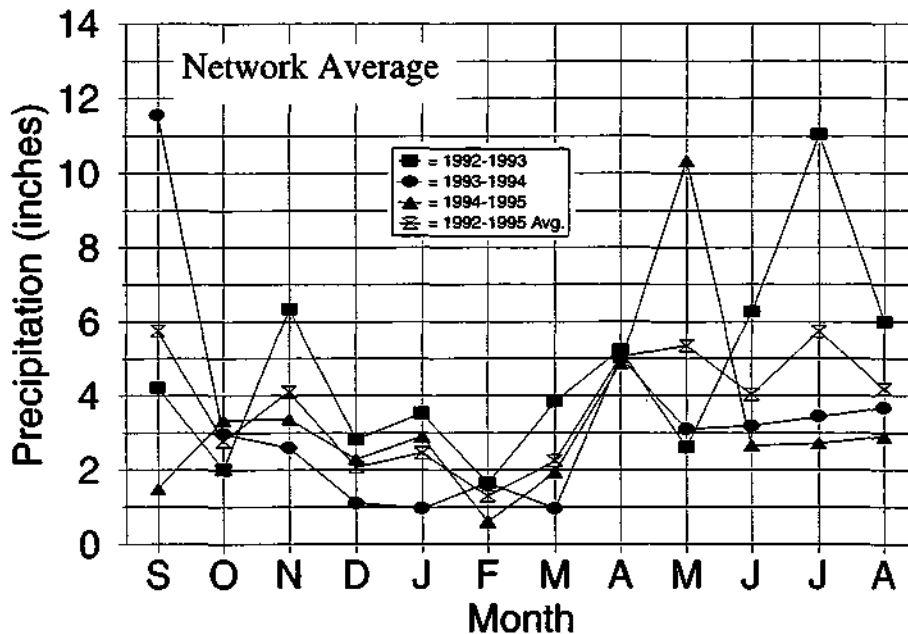


Figure 10. Time series of network average monthly precipitation for September 1992-August 1995

contains graphs of monthly average precipitation for each of the 25 raingage sites during the three years.

A total of 379 network storm periods have occurred during the three-year observation period: 148 in year one, 102 in year two, and 129 in year three. Appendix V documents each storm period with date and hour of the start of the storm period, the storm period duration, the number of stations receiving precipitation during the storm period, the network average rainfall, the storm average precipitation, the maximum precipitation received during the storm period and the station (gage) where the maximum occurred, and the storm recurrence frequency of the maximum observed precipitation. The network average rainfall is the arithmetic mean of the rain received at all 25 stations, while the storm average is the arithmetic mean of the rain received at stations reporting rainfall during the storm event. The storm recurrence frequency is the statistical probability of the recurrence of a storm with the reported precipitation (i.e., a 10-year storm would be expected to occur on average only once every ten years at a given station). The recurrence frequencies are recorded for the total storm period for the area. Also included in Appendix V is a table showing each storm and the rainfall received at each of the 25 stations during that storm.

Nineteen of the 379 storms produced maximum precipitation at one or more stations with a recurrence frequency greater than one year. Of these 19 storms, one had a 50-year recurrence frequency, one a 10-year, three a 5-year, nine a 2-year, and five a recurrence frequency of more than one year but less than two. The 50-year storm (storm 153) occurred on 13 September 1993, and the 10-year storm (storm 323) on 16 May 1995. Two of the 5-year storms occurred in 1993 (storm 105 in June and storm 149 in September) and the third (storm 327) in May 1995. The

stations that exceed the return frequency of one year are indicated in **bold** type in the Appendix V table showing the total precipitation for each storm period by station.

6. SUMMARY

The third year of operation (September 1994-August 1995) was the driest of the three years of operation. It had the wettest spring (March-May) and the driest winter (December-February) and summer (June-August). The third observation year had on average approximately two more rain days at each station, and an average of three more rain events per station than were observed during the second observation year. Both the second and third years had fewer rain events and rain days than during the first observation year.

Because of the relatively dense spacing of the raingages deployed, the network is also providing high quality data for research purposes. The data from the first three years of observation will be analyzed during the next year to determine correlations of precipitation amounts between raingage sites and to identify regions of spatial coherency in the precipitation-producing systems traversing the region, allowing further assessment of the spatial variability of the precipitation. Estimates of the probabilities of different storm paths and precipitation patterns in the area will also be developed.

These data and statistics, in combination with ground-water information now being collected in the area on a routine basis, should enhance the ability of the IVWA to accurately and efficiently manage the region's underground water resources.

7. ACKNOWLEDGMENTS

This work was contracted by the IVWA under grant "Imperial Valley 223," with partial support from the ISWS general revenue fund. Mr. Morris Bell, chairman of the IVWA, and his board administer the project. Doug Ward established the digitizing system, including software; Marv Clevenger, Roma Johnson, and Mike Snider handled all digitizing tasks; Nancy Westcott assisted with the end of the year data reduction; Dave Cox drafted the figures for this report, under the supervision of Linda Hascall; and Sarah Hibbeler edited the report. The late Douglas M. A. Jones, ISWS meteorologist emeritus, and Mike Snider made the field portion of this project run smoothly, and their efforts are greatly appreciated. The ISWS and IVWA would also like to take this opportunity to thank all of the local Mason/Tazewell County observers, past and present, for their diligence in making this project a success.

8. REFERENCES

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APPENDIX I: RAINGAGE SITE DESCRIPTIONS

This appendix contains site descriptions of each raingage site in the IVWA network as of August 31, 1995. Sites that have been relocated since the network was established in August 1992 are so noted in the "Placement" portion of their site description.

| SITE DESCRIPTION | | |
|--|-----------------------|------------------------|
| Site Number: 1 | | |
| County: Tazewell | Latitude: 40° 28' 3" | Longitude: 89° 50' 9" |
| Property Owner: Melvin Fornoff | | |
| Address: 10200 Fornoff Road, Manito, IL 61546 | | |
| Telephone: 309-968-6653 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 4695 | Gage ID No.: SWS 5068 | |
| Placement: Near apple/pear trees, northeast of a garage. Property on east side of 450 E in Tazewell County, north of 1000 N. Large dog. SWS services. Gage 15 meters northwest of lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 2 | | |
| County: Tazewell | Latitude: 40° 28' 42" | Longitude: 89° 45' 54" |
| Property Owner: Ken Becker | | |
| Address: 8479 Townline Road, Manito, IL 61546 | | |
| Telephone: 309-545-2207 | | |
| Permission Date: 8-15-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 4723 | Gage ID No.: SWS 5030 | |
| Placement: In back yard (grass) near garbage burner. Property on south side of 1100 N in Tazewell County, west of 900 E. SWS services. Gage 2 meters west of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|---|-----------------------|-------------------------|
| Site Number: 3 | | |
| County: Tazewell | Latitude: 40° 28'56" | Longitude: 89° 37' 33" |
| Property Owner: Lonn Schleder | | |
| Address: RR #3, 11177 S. 14th Street, Pekin, IL 61554 | | |
| Telephone: 309-348-2447 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 1463 | Gage ID No.: SWS 3693 | |
| <p>Placement: Moved 5-13-94 to a position about 60 meters north-northeast of original position, which was in a back pasture along a wire fence between a white aluminum shed and a large tree. Present position is between a garage and another shed near a well. Property on northwest corner of the intersection of 1600 E and 1100 N. SWS services. Gage 50 meters north-northwest of lat/lon reading.</p> | | |
| SITE DESCRIPTION | | |
| Site Number: 4 | | |
| County: Mason | Latitude: 40° 24'29" | Longitude: 89° 54' 41 " |
| Property Owner: Ellis Popcorn (Maureen Hanks) | | |
| Address: R.R. #1, Topeka, IL 61567 | | |
| Telephone: 309-535-3840 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 7382 | Gage ID No.: SWS 6573 | |
| <p>Placement: South of large white office building, between two trees in a grassy area. Property on east side of 2340 E in Mason county, northeast of Goofy Ridge. Mrs. Hanks services. Gage 10 meters south-southwest of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|---|-------------------------|-----------------------|
| Site Number: 5 | | |
| County: Mason | Latitude: 40° 24'29" | Longitude: 89° 50'19" |
| Property Owner: Joseph Meyer | | |
| Address: R.R. # 1, Box 175, Topeka, IL 61567 | | |
| Telephone: 309-968-6378 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 5985 | Gage ID No.: CDA 000130 | |
| Placement: Next to stone drive in a pasture in front of house. Property on west side of 2750 E in Mason County, south of 2500 N. SWS services. Gage 3 meters east lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 6 | | |
| County: Mason | Latitude: 40° 24' 12" | Longitude: 89° 44' 6" |
| Property Owner: c/o Wes Hilst | | |
| Address: R.R. # 3, Box 116, Manito, IL 61546 | | |
| Telephone: 309-968-7043 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 5295 | Gage ED No.: SWS 5309 | |
| Placement: Next to old farm machinery just north of garden and northeast of green shed. Property on west side of 3300 E in Mason County, just south of 2400 N. SWS services. Gage 18 meters south of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|--|----------------------|-----------------------|
| Site Number: 7 | | |
| County: Tazewell | Latitude: 40° 24'24" | Longitude: 89° 37'29" |
| Property Owner: David Van Orman | | |
| Address: 5801 Warner Road, Green Valley, IL 61534 | | |
| Telephone: 309-352-5673 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 5935 | Gage ID No.: - | |
| <p>Placement: Moved in May 1993 to a position south of a barn with a green roof, near edge of field. Original position was 30 meters to the northeast, north of the same barn. Both positions are northwest of the house. Property located just east of Green Valley on south side of 600 N in Tazewell County, just west of 1600 E. SWS services. Gage 17 meters west-northwest of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|---|------------------------|---------------------|
| Site Number: 8 | | |
| County: Mason | Latitude: 40° 20'32" | Longitude: 90° 1'8" |
| Property Owner: Gary Blakely | | |
| Address: 18012 E. County Road N, Havana, IL 62644 | | |
| Telephone: 309-543-4949 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 2000 | Gage ID No.: US 148085 | |
| <p>Placement: East-southeast of house near a small tree. Property located on north side of 1950 N in Mason County west of 1900 E. Mr. Blakely services. Gage 36 meters east-northeast of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|---|-------------------------|------------------------|
| Site Number: 9 | | |
| County: Mason | Latitude: 40° 19'41" | Longitude: 89° 55' 55" |
| Property Owner: John Crum | | |
| Address: Box 19, Topeka, IL 61567 | | |
| Telephone: 309-535-2080 | | |
| Permission Date: 5-14-93 | | |
| Installation Date: 5-14-93 | | |
| Gage Mfrs. No.: 5986 | Gage ID No.: CDA 000132 | |
| <p>Placement: Located in a sparse apple orchard about 70 meters west of house. Original position from 8-24-92 to 5-14-93 was at R.R. #1, Box 6, Topeka, about one mile north-northeast of present position at a farmstead, between a tank and a light pole along a front drive. Present location is on Pear Street in the far southwestern portion of Topeka in Mason County. From 2280 E turn west on 5th Street until you reach Pear Street. Mr. Crum services. Gage 75 meters west-northwest of lat/lon reading.</p> | | |
| SITE DESCRIPTION | | |
| Site Number: 10 | | |
| County: Mason | Latitude: 40° 19' 58" | Longitude: 89° 48'53" |
| Property Owner: Paul Meeker | | |
| Address: RR # 1, Box 31, Forest City, IL 61532 | | |
| Telephone: 309-597-2163 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 4679 | Gage ID No.: SWS 5100 | |
| <p>Placement: West of hedge row on southwest edge of home property. Property is on north side of 1900 N in Mason County, east of 2800 E, and the gage is about 3 meters north of 1900 E. SWS services. Gage 5 meters northeast of lat/lon reading.</p> | | |
| | | |

| SITE DESCRIPTION | | |
|--|-----------------------|-----------------------|
| Site Number: 11 | | |
| County: Mason | Latitude: 40° 20'2" | Longitude: 89° 44'4" |
| Property Owner: Louis Moehring | | |
| Address: 32972 E. County Road 1900 N, Manito, IL 61546 | | |
| Telephone: 217-482-3320 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 3362 | Gage ID No.: SWS 4450 | |
| Placement: North side (back of) house along a walk. Property is on northwest corner of intersection of 1900 N and 3300 E in Mason County. Mr. Moehring services. Gage 12 meters southwest of lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 12 | | |
| County: Tazewell | Latitude: 40° 20'16" | Longitude: 89° 38'26" |
| Property Owner: Harold Deiss | | |
| Address: 1327 Route 29, San Jose, IL 62682 | | |
| Telephone: 309-247-3535 | | |
| Permission Date: 8-10-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 3346 | Gage ID No.: SWS 4439 | |
| Placement: East side of Route 29 (1500 E) in Tazewell County in a grassy area southwest of a red shed. Deiss house is 1/4 mile north. Just north of Day Ditch. SWS services. Gage 2 meters south of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|--|-----------------------|------------------------|
| Site Number: 13 | | |
| County: Mason | Latitude: 40° 15'43" | Longitude: 90° 0'48" |
| Property Owner: Don Hahn | | |
| Address: R.R. # 1, Box 386, Havana, IL 62644 | | |
| Telephone: 309-543-4660 | | |
| Permission Date: 8-11 -92 | | |
| Installation Date: 8-25-92 | | |
| Gage Mfrs. No.: 5939 | Gage ID No.: - | |
| Placement: Left side of front entrance drive near a short fence. Property on south side of the diagonal 1450 N, east of Route 92. Mr. Hahn services. Gage 3 meters north-northeast of lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 14 | | |
| County: Mason | Latitude: 40° 15'52" | Longitude: 89° 56' 33" |
| Property Owner: Wayne Patterson (650 E. Taintor, Rd., Springfield, IL 62702-1755) | | |
| Address: R.R. #1, Box 220, Easton, IL 62633 | | |
| Telephone: 309-543-4664 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 4678 | Gage ID No.: SWS 5098 | |
| Placement: In a small clearing north of house. Property located on east side of 2200 E in Mason County south of 1500 N. Correspondence address changed to that of Wayne Patterson on 3-26-94. SWS services. Gage 17 meters northwest of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|---|-------------------------|-----------------------|
| Site Number: 15 | | |
| County: Mason | Latitude: 40° 15'27" | Longitude: 89° 50'22" |
| Property Owner: c/o Joe Umbach | | |
| Address: R.R. #1, Box 156, Easton, IL 62633 | | |
| Telephone: 309-562-7611 | | |
| Permission Date: 8-12-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 6462 | Gage ID No.: CDA 000136 | |
| Placement: Along right side of the house lane which extends north from 1410 N in Mason County between Route 10 and 2800 E. 1410 N runs from southwest to northeast along Central Ditch. SWS services. Gage 2 meters north-northeast of lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 16 | | |
| County: Mason | Latitude: 40° 16'5" | Longitude: 89° 44'9" |
| Property Owner: Donald Osborn, Sr. | | |
| Address: 32866 E. County Road 1450 N, Mason City, IL 62664 | | |
| Telephone: 217-482-5816 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 46595 | Gage ID No.: SWS 5059 | |
| Placement: Along right side of drive near pig pen and road (1450 N). Property located on north side of 1450 N just west of 3300 E. Mr. Osborn services. Gage 2 meters east of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|---|-----------------------|-----------------------|
| Site Number: 17 | | |
| County: Mason | Latitude: 40° 16' 51" | Longitude: 89° 38'25" |
| Property Owner: Larry Jennings | | |
| Address: R.R. #1, Box 100, San Jose, IL 62682 | | |
| Telephone: 309-274-3781 | | |
| Permission Date: 8-11 -92 | | |
| Installation Date: 8-24-92 | | |
| Gage Mfrs. No.: 5280 | Gage ID No.: SWS 5317 | |
| Placement: West of garage near back fence and animal petting area. Property located on 3800 E in Mason county just north of 1500 N. SWS services. Gage 34 meters west of lat/lon reading. | | |
| SITE DESCRIPTION | | |
| Site Number: 18 | | |
| County: Mason | Latitude: 40° 11'32" | Longitude: 90° 6'15" |
| Property Owner: Vernon Heye | | |
| Address: R.R. #1, Bath, IL 62617 | | |
| Telephone: 309-546-2266 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 5278 | Gage ID No.: SWS 5308 | |
| Placement: East of white shed near field on east edge of home property. Property located on north side of 900 N in Mason county about 2 miles east of Bath. SWS services. Gage about 37 meters east-northeast of lat/lon reading. | | |

| SITE DESCRIPTION | | |
|---|------------------------|------------------------|
| Site Number: 19 | | |
| County: Mason | Latitude: 40° 11' 1" | Longitude: 90° 70' 19" |
| Property Owner: Charles W. Lane | | |
| Address: R.R. #1, box 51 Kilbourne, IL 62655 | | |
| Telephone: 309-538-4397 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 4718 | Gage ID No.: SWS 5081 | |
| <p>Placement: Along a wire fence separating home property from pig pen, northwest of hours. Property located on west side of Route 97 on southern end of a large curve between 900 N and 800 N. Mr. Lane services. Gage 14 meters northwest of lat/lon reading.</p> | | |
| SITE DESCRIPTION | | |
| Site Number: 20 | | |
| County: Mason | Latitude: 40° 11'46" | Longitude: 89° 54' 56" |
| Property Owner: Wanda Krause | | |
| Address: R.R. #1, Box 109, Easton, IL 62633 | | |
| Telephone: 309-562-7528 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 3771 | Gage ID No.: US 148830 | |
| <p>Placement: In yard of Jon Krause just north of the east-west lane and to the west of the lane to the Krause home. The raingage was moved to this position in early 1995. The previous location was on the east side of 2400 E in Mason County near Jon Krause mailbox, was in a strawberry patch along the same lane about 250 meters to the west on the Wanda Krause property. SWS services. Gage 150 meters east of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|---|-------------------------|------------------------|
| Site Number: 21 | | |
| County: Mason | Latitude: 40° 11'10" | Longitude: 89° 49' 39" |
| Property Owner: John Walters | | |
| Address: 28030 E. County Road 850 N, Mason City, IL 62664 | | |
| Telephone: 309-562-7527 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 6294 | Gage ID No.: CDA 00013A | |
| <p>Placement: East of the house and driveway and southeast of a shed. Property located on a hill on the northeast corner of the intersection of 2800 E and 850 N in Mason County. Position previous to 5-20-94 was between a windmill and a bush about 25 meters west of present position. Mrs. Walters services. Gage 25 meters east of lat/lon reading.</p> | | |
| SITE DESCRIPTION | | |
| Site Number: 22 | | |
| County: Mason | Latitude: 40° 10'46" | Longitude: 89° 44'28" |
| Property Owner: Joe Swaar | | |
| Address: 32706 E. County Road 800 N, Mason City, IL 62664 | | |
| Telephone: 217-482-5571 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 4708 | Gage ID No.: SWS 5021 | |
| <p>Placement: On a concrete slab with two 2" x 4"s attached to the base of the gage, west of the house and lane on a ridge. Property is located on north side of 800 N in Mason County west of Route 29 and southwest of Mason City. Mr. Swaar services. Gage 25 meters west of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|--|------------------------|-----------------------|
| Site Number: 23 | | |
| County: Mason | Latitude: 40° 12' 0" | Longitude: 89° 38'28" |
| Property Owner: Dale C. Fancher | | |
| Address: 9482 N. County Road 3800 E, Mason City, IL 62664-7209 | | |
| Telephone: 217-482-3506 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 3773 | Gage ID No.: US 148832 | |
| <p>Placement: On the west edge of a garden located north of a wood shop and the house. Property located on the west side of 3800 E in Mason County about a half mile north of Route 10, east of Mason City. Mr. Fancher services. Gage 30 meters north-northwest of lat/lon reading.</p> | | |
| SITE DESCRIPTION | | |
| Site Number: 24 | | |
| County: Mason | Latitude: 40° 6'26" | Longitude: 90° 11'58" |
| Property Owner: Norman L. Fletcher | | |
| Address: R.R. # 1, Box 147, Bath, IL 62664 | | |
| Telephone: 309-546-2677 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: — | Gage ID No.: ~ | |
| <p>Placement: North of a garage near a grapevine, northeast of the house. Property located on the east side of 800 E in Mason County west of Route 78, just north of 300 N. Mrs. Fletcher services. Gage 32 meters northeast of lat/lon reading.</p> | | |

| SITE DESCRIPTION | | |
|---|---------------------|----------------------|
| Site Number: 25 | | |
| County: Mason | Latitude: 40° 6'14" | Longitude: 90° 8' 0" |
| Property Owner: Rocky Adkins | | |
| Address: R.R. #2, Box 16, Chandlerville, IL 62627 | | |
| Telephone: 217-458-2587 | | |
| Permission Date: 8-11-92 | | |
| Installation Date: 8-26-92 | | |
| Gage Mfrs. No.: 5947 | Gage ID No.: ~ | |
| <p>Placement: Next to two tanks and a sign in a small grassy area surrounded by truck access. Property located at Adkins Farms on south side of 300 N (east of Route 78) in Mason County. SWS services. Gage 2 meters south of lat/lon reading.</p> | | |

APPENDIX II: INSTRUCTIONS FOR RAINGAGE TECHNICIANS

A. Use Central Standard Time:

From October through March, Illinois is in the Central Standard Time zone, so the time your watch shows is the time to use when you write the time and date on the chart. From April through October, subtract one hour from what your watch says, since during the warm season Illinois is in the Central Daylight Time (Eastern Standard Time) zone.

B. Order of Servicing:

1) Old Chart

- a) Unlock and open (slide up) door on the side of the instrument case and then lock door in place to prevent it from falling.
- b) Depress the bucket platform casting to mark the OFF time position on the chart (a vertical trace will be written by the pen).
- c) Note the time on your watch, and move the pen point and arm away from the chart by pushing out on the pen bracket.
- d) Lift up on the drum cylinder that contains the chart in order to disengage it from the chart drive, and remove it out the door.
- e) Remove the chart from the drum and write the OFF date and time on the chart on the red line at the right end of the chart.

2) Bucket

- a) Remove the collector from the top of the gage by rotating it clockwise to disengage the tongue-and-groove assembly, set it down.
- b) Carefully lift the bucket off of the weighing platform if there is water in it and dump the water on the ground.
- c) Reposition the empty bucket on the platform.
- d) Reinstall the collector by setting it on top of the raingage case and turning counterclockwise until the tongue-and-groove assembly meshes.
- e) During wintertime operation, when a quart of antifreeze is in the bucket to prevent freezing, do not dump the bucket contents. We will monitor the increase in liquid in the bucket at the Water Survey (via the chart trace) and come to dispose of the liquid when it approaches the top of the bucket.

3) New Chart

- a) Copy the OFF time from the old chart to the ON time on the new chart (another red line on end of the chart) and write your site number on the chart.
- b) Clip the new chart to the drum cylinder, making sure the crease at the right end

- of the chart is sharp and the chart is tight on the cylinder.
- c) Wind the chart drive lever until you can't anymore so that the chart drive will be ready to run again for another eight days.
 - d) Reinstall the chart cylinder onto the chart drive, making sure the chart cylinder and drive gears mesh. Simply push down on the cylinder and wiggle it a little. You should feel some resistance if done correctly.
 - e) Move the pen arm and point over to the chart cylinder with the pen bracket and rotate the cylinder counterclockwise until the pen point coincides with the correct ON time position.
 - f) Let the pen point rest right on the chart and depress the platform casting again to make a small vertical line denoting the ON time position.
 - g) When you are sure that everything is in order, carefully unlock the door, push the door down, and lock it into place for another week.

4) Problems

- a) If you notice anything unusual about the gage or the chart drive operation, write a note on the upper right corner of the old chart.
- b) If you think the problem requires immediate attention, call Randy Peppier collect at 217-244-1798 (day) or 217-356-6083 (night) to relay the information to him. Situations worthy of immediate attention include confusion over how to perform the operation described above, premature chart-drive stoppage, or unauthorized tampering with the gage. Immediate repairs will be scheduled if necessary.
- c) Once you become experienced with this operation, it will take you less than five minutes to do it. Don't let the above instructions scare you - this operation is actually easier to perform than describe!

5) Disposition of Old Chart

- a) Carefully fold the old chart and place it in one of the postage-paid envelopes provided.
- b) Mail the chart to the State Water Survey.

C. Change in site status:

If at any time you decide that you no longer want the gage on your property or would rather that we service it, please contact Water Survey staff immediately so that they can make new arrangements. It is important to try to keep the sites in the same locations during the course of this project since rainfall generally varies greatly over short distances.

We greatly appreciate your cooperation for this project.

APPENDIX III: DOCUMENTATION OF RAINGAGE MAINTENANCE

This appendix documents major maintenance work carried out at sites in the network from September 1, 1994, through October 31, 1995. All gages were cleaned and lubricated and their calibration checked during September 15-16, 1994, and again during October 1995. Each raingage was leveled and had new pen points and chart drives installed at various times during the year. None of these activities are listed below. Other than sites #15 and #20, no sites needed major maintenance during the third network year.

SITE #20

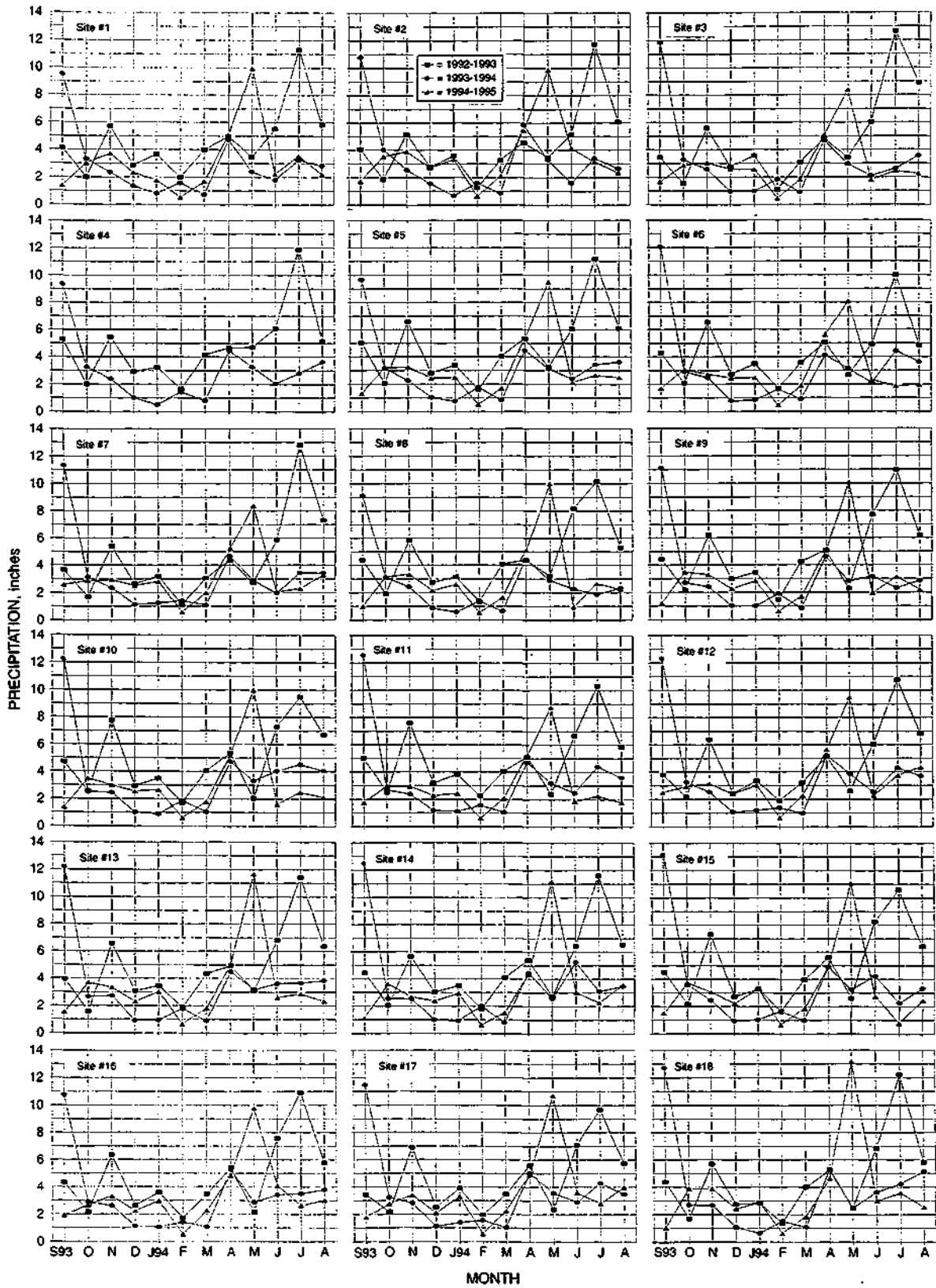
3-15-95: Moved raingage from near road to the yard of Jon Krause, 100 meters west of previous site.

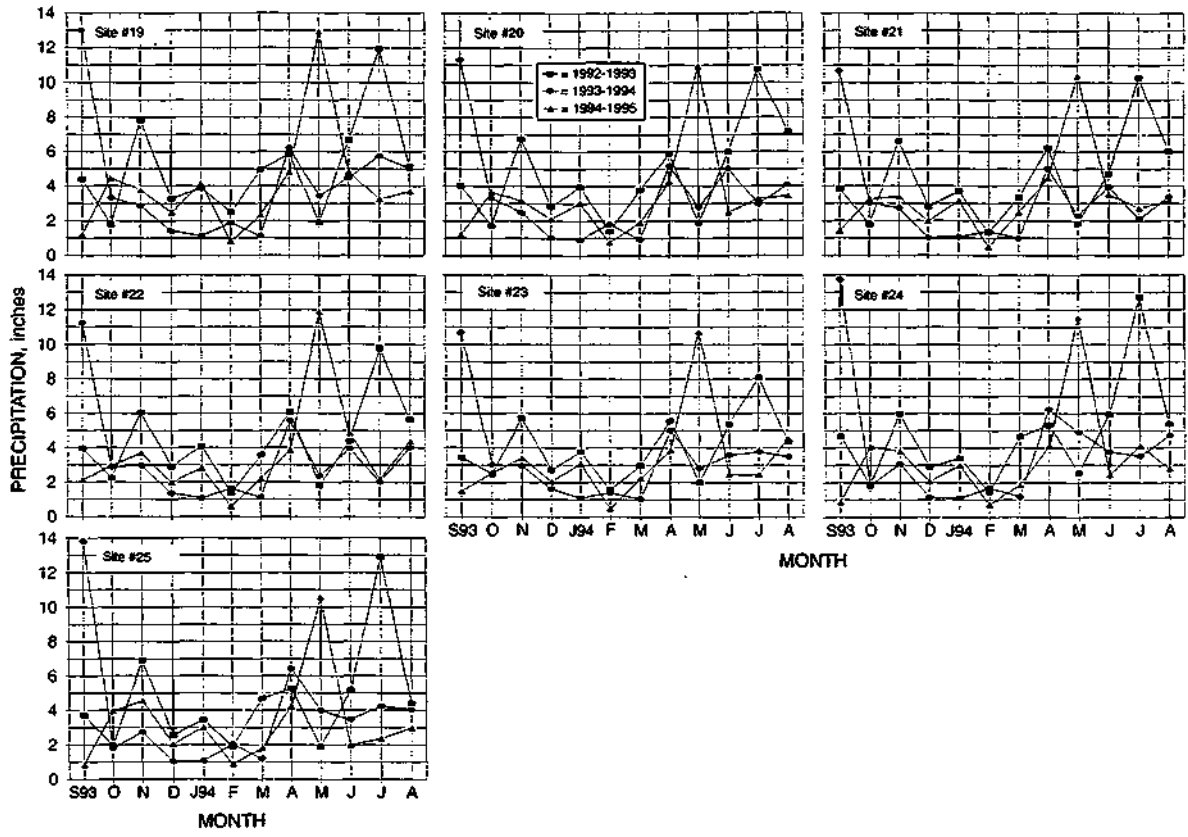
SITE #15

8-15-95: Adjusted coarse adjustment, and checked calibration. Calibration was okay.

APPENDIX IV: MONTHLY PRECIPITATION VARIABILITY AT EACH SITE

This appendix contains graphs of the monthly variability of precipitation amounts at each site in the IVWA Network. Each graph plots the monthly average precipitation (in inches) for a site for each month during the observation year (September through August of the following year). Data include the monthly totals for the 1992-1993, 1993-1994, and 1994-1995 observation years. Actual 1994-1995 monthly amounts are contained in Table 1. The 1992-1993 totals can be found in Peppier and Hollinger (1994), and for 1993-1994 in Peppier and Hollinger (1995).





APPENDIX V: DOCUMENTATION OF HEAVY STORM AMOUNTS

This appendix documents all storm period amounts, start time, and duration, and notes those that exceeded an annual event (one-year recurrence interval) during the period September 1, 1992, through August 31, 1995. Individual storm durations of one hour to ten days were considered. The rainfall amounts for a one-year recurrence interval and these storm durations for west-central Illinois are given below (Huff and Angel, 1989):

| Storm Duration | Rainfall (inches) for Given Recurrence Interval | | | | | | |
|---------------------------|--|-------------|-------------|--------------|--------------|--------------|---------------|
| | 1-Yr | 2-Yr | 5-Yr | 10-Yr | 25-Yr | 50-Yr | 100-Yr |
| 1 hour | 1.18 | 1.42 | 1.77 | 2.09 | 2.50 | 2.86 | 3.25 |
| 2 hours | 1.48 | 1.78 | 2.22 | 2.62 | 3.14 | 3.59 | 4.08 |
| 3 hours | 1.61 | 1.93 | 2.41 | 2.85 | 3.41 | 3.89 | 4.43 |
| 6 hours | 1.89 | 2.26 | 2.82 | 3.33 | 3.99 | 4.56 | 5.19 |
| 12 hours | 2.17 | 2.62 | 3.27 | 3.87 | 4.63 | 5.29 | 6.02 |
| 18 hours | 2.28 | 2.75 | 3.46 | 4.09 | 4.90 | 5.59 | 6.37 |
| 24 hours | 2.52 | 3.02 | 3.76 | 4.45 | 5.32 | 6.08 | 6.92 |
| 48 hours | 2.81 | 3.38 | 4.19 | 4.86 | 5.78 | 6.62 | 7.51 |
| 72 hours | 3.05 | 3.70 | 4.55 | 5.26 | 6.15 | 7.25 | 8.16 |
| 5 days | 3.48 | 4.17 | 5.11 | 5.84 | 6.96 | 7.98 | 9.21 |
| 10 days | 4.29 | 5.12 | 6.27 | 7.10 | 8.19 | 9.10 | 10.18 |

The following table documents individual storm start time (hour), duration (in hours), number of gages receiving precipitation during each storm, average precipitation over the network of 25 gages, average precipitation at the gages receiving precipitation during the event, maximum precipitation at any gage during the storm, and the location of the gage. The last column in the table indicates whether a particular storm exceeded events greater than an annual event (1-year to 100-year recurrence intervals considered). Only those events with maximum precipitation greater than that expected once a year are shown. A storm recurrence frequency of 50 years means that a storm this size would be expected once every 50 years. Storm amounts are in inches.

Table V-1. Documentation of Storm Amounts

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|-----------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| September 1992 | | | | | | | | | |
| 1 | 1 | 0900 | 8 | 25 | 0.45 | 0.45 | 1.07 | 11 | |
| 2 | 2 | 0300 | 11 | 25 | 0.23 | 0.23 | 0.38 | 4 | |
| 3 | 2 | 2100 | 3 | 13 | 0.06 | 0.11 | 0.28 | 12 | |
| 4 | 7 | 2100 | 7 | 25 | 0.74 | 0.74 | 1.83 | 24 | |
| 5 | 9 | 0300 | 20 | 25 | 1.34 | 1.34 | 1.89 | 14 | |
| 6 | 14 | 1400 | 2 | 7 | 0.03 | 0.11 | 0.25 | 5 | |
| 7 | 18 | 0600 | 6 | 23 | 0.05 | 0.05 | 0.14 | 25 | |
| 8 | 18 | 1800 | 1 | 2 | 0.00 | 0.06 | 0.09 | 24 | |
| 9 | 20 | 0800 | 24 | 25 | 1.08 | 1.08 | 1.42 | 5 | |
| 10 | 25 | 2200 | 24 | 25 | 0.23 | 0.23 | 0.38 | 19 | |
| October 1992 | | | | | | | | | |
| 11 | 8 | 0300 | 37 | 25 | 0.34 | 0.34 | 0.50 | 10 | |
| 12 | 9 | 2400 | 8 | 21 | 0.07 | 0.08 | 0.17 | 4 | |
| 13 | 10 | 1600 | 3 | 16 | 0.04 | 0.07 | 0.20 | 11 | |
| 14 | 14 | 2300 | 11 | 25 | 0.85 | 0.85 | 1.25 | 11 | |
| 15 | 15 | 2000 | 3 | 18 | 0.04 | 0.05 | 0.16 | 23 | |
| 16 | 19 | 2200 | 6 | 25 | 0.18 | 0.18 | 0.43 | 24 | |
| 17 | 28 | 1900 | 4 | 16 | 0.02 | 0.04 | 0.07 | 14 | |
| 18 | 29 | 0400 | 6 | 11 | 0.03 | 0.07 | 0.10 | 1 | |
| 19 | 29 | 1800 | 19 | 19 | 0.08 | 0.11 | 0.29 | 24 | |
| 20 | 31 | 1600 | 38 | 25 | 2.18 | 2.18 | 3.39 | 11 | 2-Yr |
| November 1992 | | | | | | | | | |
| 21 | 3 | 0900 | 14 | 25 | 0.63 | 0.63 | 0.81 | 22 | |
| 22 | 8 | 2300 | 12 | 25 | 0.23 | 0.23 | 0.33 | 1 | |
| 23 | 9 | 1900 | 16 | 25 | 0.71 | 0.71 | 1.02 | 19 | |
| 24 | 10 | 1700 | 15 | 25 | 0.15 | 0.15 | 0.30 | 21 | |
| 25 | 11 | 1700 | 23 | 25 | 0.58 | 0.58 | 0.79 | 3 | |
| 26 | 17 | 1900 | 3 | 2 | 0.00 | 0.03 | 0.03 | 24 | |
| 27 | 18 | 0200 | 6 | 2 | 0.01 | 0.09 | 0.10 | 24 | |
| 28 | 18 | 1500 | 18 | 25 | 0.52 | 0.52 | 0.84 | 19 | |
| 29 | 19 | 2400 | 12 | 25 | 0.19 | 0.19 | 0.34 | 1 | |
| 30 | 20 | 1600 | 11 | 25 | 0.46 | 0.46 | 0.66 | 24 | |
| 31 | 21 | 0400 | 25 | 25 | 0.65 | 0.65 | 0.89 | 16 | |
| 32 | 25 | 0300 | 20 | 25 | 0.38 | 0.38 | 0.52 | 1 | |
| 33 | 30 | 1500 | 6 | 7 | 0.01 | 0.04 | 0.06 | 8 | |
| December 1992 | | | | | | | | | |
| 34 | 3 | 0700 | 1 | 2 | 0.00 | 0.04 | 0.04 | 22 | |
| 35 | 9 | 1200 | 25 | 25 | 0.34 | 0.34 | 0.44 | 11 | |
| 36 | 14 | 0900 | 3 | 1 | 0.00 | 0.06 | 0.06 | 20 | |
| 37 | 14 | 2100 | 24 | 25 | 1.52 | 1.52 | 1.98 | 19 | |
| 38 | 19 | 0500 | 2 | 1 | 0.00 | 0.04 | 0.04 | 2 | |
| 39 | 19 | 1000 | 11 | 25 | 0.30 | 0.30 | 0.39 | 3 | |
| 40 | 20 | 0800 | 5 | 15 | 0.03 | 0.06 | 0.08 | 10 | |
| 41 | 28 | 1000 | 2 | 2 | 0.00 | 0.02 | 0.04 | 9 | |
| 42 | 28 | 2300 | 47 | 25 | 0.62 | 0.62 | 0.86 | 22 | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Cage with max.</i> | <i>Storm recurrence frequency</i> |
|----------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| January 1993 | | | | | | | | | |
| 43 | 1 | 2000 | 3 | 1 | 0.00 | 0.03 | 0.03 | 19 | |
| 44 | 2 | 0400 | 34 | 25 | 0.26 | 0.26 | 0.41 | 3 | |
| 45 | 3 | 2100 | 23 | 25 | 1.70 | 1.70 | 2.24 | 20 | |
| 46 | 6 | 1100 | 3 | 3 | 0.01 | 0.05 | 0.06 | 23 | |
| 47 | 7 | 1100 | 2 | 4 | 0.01 | 0.05 | 0.07 | 24 | |
| 48 | 7 | 2000 | 15 | 23 | 0.08 | 0.08 | 0.25 | 13 | |
| 49 | 9 | 1300 | 20 | 25 | 0.22 | 0.22 | 0.52 | 25 | |
| 50 | 12 | 0700 | 24 | 25 | 0.33 | 0.33 | 0.46 | 16 | |
| 51 | 20 | 0900 | 21 | 25 | 0.92 | 0.92 | 1.23 | 22 | |
| February 1993 | | | | | | | | | |
| 52 | 11 | 0800 | 30 | 25 | 0.70 | 0.70 | 1.10 | 12 | |
| 53 | 12 | 1800 | 23 | 23 | 0.12 | 0.13 | 0.24 | 14 | |
| 54 | 15 | 1500 | 18 | 25 | 0.15 | 0.15 | 0.27 | 19 | |
| 55 | 20 | 1400 | 24 | 25 | 0.44 | 0.44 | 0.75 | 11 | |
| 56 | 25 | 0500 | 26 | 25 | 0.23 | 0.23 | 0.69 | 19 | |
| March 1993 | | | | | | | | | |
| 57 | 2 | 0800 | 14 | 25 | 0.30 | 0.30 | 0.51 | 2 | |
| 58 | 3 | 0400 | 47 | 25 | 1.16 | 1.16 | 1.96 | 19 | |
| 59 | 5 | 1900 | 1 | 2 | 0.00 | 0.02 | 0.04 | 11 | |
| 60 | 7 | 1700 | 7 | 15 | 0.04 | 0.07 | 0.17 | 24 | |
| 61 | 9 | 2400 | 3 | 4 | 0.01 | 0.07 | 0.08 | 21 | |
| 62 | 15 | 2100 | 25 | 25 | 0.36 | 0.36 | 0.46 | 1 | |
| 63 | 19 | 0200 | 21 | 25 | 0.23 | 0.23 | 0.40 | 11 | |
| 64 | 20 | 0700 | 6 | 3 | 0.01 | 0.06 | 0.10 | 22 | |
| 65 | 21 | 1100 | 41 | 25 | 1.42 | 1.42 | 1.71 | 4 | |
| 66 | 30 | 2200 | 43 | 25 | 0.55 | 0.55 | 0.82 | 3 | |
| April 1993 | | | | | | | | | |
| 67 | 1 | 2200 | 10 | 2 | 0.02 | 0.19 | 0.19 | 24 | |
| 68 | 5 | 2400 | 4 | 2 | 0.01 | 0.11 | 0.12 | 20 | |
| 69 | 7 | 1000 | 37 | 25 | 0.80 | 0.80 | 0.95 | 14 | |
| 70 | 12 | 1900 | 4 | 4 | 0.01 | 0.07 | 0.10 | 24 | |
| 71 | 13 | 1400 | 16 | 25 | 1.18 | 1.18 | 1.87 | 21 | |
| 72 | 14 | 1300 | 34 | 25 | 1.62 | 1.62 | 2.09 | 15 | |
| 73 | 16 | 1100 | 9 | 17 | 0.04 | 0.06 | 0.11 | 20 | |
| 74 | 19 | 0300 | 7 | 25 | 0.13 | 0.13 | 0.22 | 18 | |
| 75 | 19 | 1600 | 26 | 25 | 0.78 | 0.78 | 1.09 | 17 | |
| 76 | 24 | 2100 | 13 | 25 | 0.25 | 0.25 | 0.39 | 18 | |
| 77 | 28 | 2400 | 13 | 25 | 0.19 | 0.19 | 0.28 | 5 | |
| May 1993 | | | | | | | | | |
| 78 | 1 | 0100 | 1 | 1 | 0.00 | 0.03 | 0.03 | 10 | |
| 79 | 1 | 1200 | 12 | 21 | 0.14 | 0.16 | 0.39 | 8 | |
| 80 | 2 | 1400 | 25 | 25 | 0.21 | 0.21 | 0.56 | 25 | |
| 81 | 4 | 0300 | 16 | 17 | 0.24 | 0.35 | 0.81 | 3 | |
| 82 | 5 | 0700 | 1 | 1 | 0.00 | 0.03 | 0.03 | 13 | |
| 83 | 5 | 1100 | 5 | 5 | 0.03 | 0.13 | 0.31 | 13 | |
| 84 | 6 | 0600 | 10 | 11 | 0.16 | 0.37 | 0.99 | 24 | |
| 85 | 10 | 1100 | 13 | 22 | 0.13 | 0.15 | 0.16 | 13 | |
| 86 | 11 | 1700 | 3 | 4 | 0.01 | 0.04 | 0.05 | 17 | |
| 87 | 12 | 1300 | 9 | 25 | 0.45 | 0.45 | 0.72 | 23 | |
| 88 | 18 | 1800 | 4 | 7 | 0.02 | 0.07 | 0.12 | 4 | |
| 89 | 21 | 1500 | 4 | 4 | 0.01 | 0.06 | 0.07 | 21 | |
| 90 | 22 | 1400 | 18 | 24 | 0.37 | 0.38 | 1.00 | 1 | |
| 91 | 23 | 1400 | 15 | 24 | 0.13 | 0.14 | 0.47 | 1 | |
| 92 | 28 | 2000 | 17 | 23 | 0.46 | 0.50 | 2.09 | 4 | |
| 93 | 30 | 0800 | 16 | 24 | 0.27 | 0.28 | 0.67 | 13 | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|---------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| June 1993 | | | | | | | | | |
| 94 | 1 | 2200 | 13 | 25 | 0.41 | 0.41 | 0.68 | 3 | |
| 95 | 3 | 2300 | 19 | 25 | 1.05 | 1.05 | 1.39 | 5 | |
| 96 | 7 | 2300 | 13 | 24 | 0.31 | 0.32 | 0.82 | 3 | |
| 97 | 8 | 1600 | 4 | 24 | 0.17 | 0.18 | 0.33 | 12 | |
| 98 | 15 | 0300 | 4 | 8 | 0.03 | 0.09 | 0.15 | 3 | |
| 99 | 17 | 2100 | 12 | 25 | 0.26 | 0.26 | 0.53 | 20 | |
| 100 | 18 | 1500 | 18 | 20 | 0.19 | 0.23 | 0.68 | 24 | |
| 101 | 19 | 1400 | 9 | 25 | 0.48 | 0.48 | 1.19 | 19 | |
| 102 | 24 | 2100 | 13 | 25 | 1.34 | 1.34 | 2.09 | 13 | |
| 103 | 28 | 0700 | 9 | 19 | 0.39 | 0.52 | 1.57 | 8 | |
| 104 | 28 | 2400 | 4 | 6 | 0.06 | 0.24 | 0.87 | 9 | |
| 105 | 30 | 0100 | 8 | 25 | 1.52 | 1.52 | 3.29 | 16 | 5-Yr |
| 106 | 30 | 2300 | 14 | 25 | 1.25 | 1.25 | 3.03 | 24 | 2-Yr |
| July 1993 | | | | | | | | | |
| 107 | 2 | 1000 | 10 | 21 | 0.21 | 0.25 | 0.59 | 17 | |
| 108 | 5 | 1900 | 6 | 17 | 0.25 | 0.36 | 0.91 | 4 | |
| 109 | 7 | 0700 | 11 | 25 | 0.44 | 0.44 | 0.70 | 4 | |
| 110 | 7 | 2100 | 1 | 1 | 0.00 | 0.02 | 0.02 | 11 | |
| 111 | 9 | 2000 | 13 | 25 | 0.43 | 0.43 | 0.64 | 4 | |
| 112 | 10 | 1700 | 9 | 24 | 1.05 | 1.09 | 2.57 | 11 | 1-Yr |
| 113 | 11 | 0700 | 4 | 15 | 0.04 | 0.07 | 0.13 | 13 | |
| 114 | 12 | 0700 | 6 | 3 | 0.01 | 0.05 | 0.07 | 22 | |
| 115 | 13 | 1400 | 7 | 25 | 0.81 | 0.81 | 2.22 | 12 | 1-Yr |
| 116 | 15 | 0500 | 12 | 24 | 0.27 | 0.28 | 0.81 | 25 | |
| 117 | 15 | 2100 | 12 | 24 | 0.18 | 0.19 | 0.82 | 18 | |
| 118 | 16 | 1900 | 14 | 15 | 0.36 | 0.60 | 3.07 | 7 | 2-Yr |
| 119 | 18 | 1500 | 6 | 25 | 0.89 | 0.89 | 1.58 | 11 | |
| 120 | 20 | 1600 | 16 | 25 | 0.37 | 0.37 | 0.70 | 5 | |
| 121 | 22 | 0500 | 10 | 25 | 0.70 | 0.70 | 1.29 | 18 | |
| 122 | 23 | 0400 | 14 | 25 | 1.49 | 1.49 | 3.37 | 18 | 2-Yr |
| 123 | 24 | 0400 | 6 | 25 | 1.05 | 1.05 | 2.12 | 25 | 1-Yr |
| 124 | 24 | 1300 | 6 | 25 | 0.27 | 0.27 | 0.77 | 22 | |
| 125 | 25 | 0400 | 5 | 21 | 0.06 | 0.07 | 0.13 | 13 | |
| 126 | 28 | 0500 | 6 | 21 | 0.14 | 0.16 | 0.54 | 21 | |
| 127 | 31 | 1400 | 11 | 25 | 0.87 | 0.87 | 2.08 | 9 | |
| August 1993 | | | | | | | | | |
| 128 | 1 | 0500 | 2 | 1 | 0.00 | 0.08 | 0.08 | 20 | |
| 129 | 1 | 1800 | 5 | 10 | 0.08 | 0.19 | 0.68 | 20 | |
| 130 | 3 | 1300 | 6 | 24 | 0.27 | 0.28 | 1.06 | 10 | |
| 131 | 5 | 2400 | 6 | 5 | 0.01 | 0.06 | 0.13 | 3 | |
| 132 | 9 | 1700 | 3 | 2 | 0.00 | 0.05 | 0.06 | 3 | |
| 133 | 10 | 0100 | 7 | 25 | 0.90 | 0.90 | 1.42 | 25 | |
| 134 | 11 | 2100 | 20 | 25 | 0.73 | 0.73 | 1.39 | 12 | |
| 135 | 15 | 2200 | 6 | 24 | 0.60 | 0.63 | 1.52 | 3 | |
| 136 | 16 | 1500 | 3 | 3 | 0.01 | 0.05 | 0.06 | 14 | |
| 137 | 17 | 1700 | 3 | 5 | 0.02 | 0.09 | 0.12 | 4 | |
| 138 | 18 | 0800 | 5 | 22 | 0.34 | 0.39 | 1.06 | 22 | |
| 139 | 18 | 2100 | 2 | 12 | 0.02 | 0.04 | 0.07 | 6 | |
| 140 | 19 | 1200 | 2 | 2 | 0.00 | 0.06 | 0.07 | 11 | |
| 141 | 19 | 1700 | 1 | 3 | 0.01 | 0.07 | 0.12 | 13 | |
| 142 | 22 | 0800 | 6 | 16 | 0.07 | 0.11 | 0.30 | 2 | |
| 143 | 23 | 1600 | 7 | 25 | 1.63 | 1.63 | 2.34 | 15 | 1-Yr |
| 144 | 25 | 0500 | 5 | 8 | 0.05 | 0.15 | 0.34 | 8 | |
| 145 | 28 | 0500 | 2 | 7 | 0.02 | 0.07 | 0.15 | 5 | |
| 146 | 28 | 1700 | 5 | 21 | 0.13 | 0.16 | 0.34 | 22 | |
| 147 | 30 | 1400 | 2 | 3 | 0.04 | 0.31 | 0.54 | 3 | |
| 148 | 30 | 2000 | 16 | 25 | 1.04 | 1.04 | 1.88 | 25 | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> | |
|-----------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|--|
| September 1993 | | | | | | | | | | |
| 149 | 2 | 0200 | 29 | 25 | 3.48 | 3.48 | 4.79 | 25 | 5-Yr | |
| 150 | 5 | 2200 | 15 | 25 | 1.07 | 1.07 | 1.99 | 3 | | |
| 151 | 7 | 2400 | 6 | 24 | 0.09 | 0.10 | 0.15 | 15 | | |
| 152 | 12 | 0300 | 6 | 25 | 0.18 | 0.18 | 0.37 | 11 | | |
| 153 | 13 | 0600 | 36 | 25 | 5.36 | 5.36 | 6.86 | 19 | | |
| 154 | 22 | 0700 | 14 | 25 | 0.38 | 0.38 | 0.66 | 25 | | |
| 155 | 25 | 0600 | 13 | 25 | 0.97 | 0.97 | 1.27 | 11 | 50-Yr | |
| 156 | 26 | 1600 | 4 | 10 | 0.02 | 0.06 | 0.08 | 13 | | |
| October 1993 | | | | | | | | | | |
| 157 | 8 | 1400 | 17 | 25 | 0.88 | 0.88 | 1.38 | 23 | | |
| 158 | 15 | 1600 | 31 | 25 | 1.74 | 1.74 | 2.33 | 2 | | |
| 159 | 18 | 1400 | 10 | 14 | 0.03 | 0.05 | 0.10 | 21 | | |
| 160 | 20 | 0900 | 14 | 25 | 0.32 | 0.32 | 0.47 | 17 | | |
| 161 | 21 | 1600 | 8 | 18 | 0.06 | 0.08 | 0.13 | 22 | | |
| November 1993 | | | | | | | | | | |
| 162 | 12 | 1400 | 8 | 25 | 0.35 | 0.35 | 0.49 | 2 | | |
| 163 | 13 | 2000 | 20 | 25 | 0.74 | 0.74 | 0.93 | 17 | | |
| 164 | 16 | 2000 | 16 | 25 | 0.70 | 0.70 | 0.91 | 19 | | |
| 165 | 24 | 0100 | 11 | 25 | 0.11 | 0.11 | 0.17 | 4 | | |
| 166 | 24 | 1700 | 45 | 25 | 0.59 | 0.59 | 0.74 | 24 | | |
| 167 | 27 | 1000 | 4 | 13 | 0.03 | 0.05 | 0.10 | 16 | | |
| 168 | 27 | 2000 | 11 | 9 | 0.02 | 0.07 | 0.09 | 4 | | |
| December 1993 | | | | | | | | | | |
| 169 | 1 | 1900 | 15 | 25 | 0.28 | 0.28 | 0.48 | 23 | | |
| 170 | 3 | 1300 | 3 | 1 | 0.00 | 0.10 | 0.10 | 14 | | |
| 171 | 3 | 2000 | 10 | 25 | 0.15 | 0.15 | 0.23 | 2 | | |
| 172 | 13 | 0100 | 4 | 16 | 0.03 | 0.05 | 0.09 | 4 | | |
| 173 | 13 | 0900 | 42 | 25 | 0.51 | 0.51 | 0.68 | 19 | | |
| 174 | 17 | 2200 | 5 | 20 | 0.06 | 0.07 | 0.18 | 23 | | |
| 175 | 24 | 1900 | 12 | 13 | 0.05 | 0.10 | 0.16 | 11 | | |
| 176 | 30 | 2400 | 1 | 2 | 0.00 | 0.04 | 0.04 | 2 | | |
| 177 | 31 | 2200 | 3 | 9 | 0.02 | 0.04 | 0.06 | 11 | | |
| January 1994 | | | | | | | | | | |
| 178 | 2 | 2200 | 11 | 12 | 0.06 | 0.12 | 0.23 | 24 | | |
| 179 | 10 | 1000 | 12 | 25 | 0.20 | 0.20 | 0.29 | 23 | | |
| 180 | 13 | 1100 | 7 | 7 | 0.02 | 0.06 | 0.11 | 19 | | |
| 181 | 16 | 1200 | 6 | 16 | 0.04 | 0.06 | 0.10 | 11 | | |
| 182 | 25 | 0600 | 8 | 16 | 0.05 | 0.07 | 0.19 | 16 | | |
| 183 | 25 | 1900 | 1 | 1 | 0.00 | 0.04 | 0.04 | 4 | | |
| 184 | 26 | 2300 | 23 | 25 | 0.53 | 0.53 | 0.77 | 12 | | |
| 185 | 29 | 1500 | 20 | 15 | 0.06 | 0.11 | 0.27 | 7 | | |
| February 1994 | | | | | | | | | | |
| 186 | 7 | 2000 | 21 | 13 | 0.04 | 0.08 | 0.22 | 19 | | |
| 187 | 12 | 1100 | 5 | 5 | 0.01 | 0.05 | 0.06 | 14 | | |
| 188 | 19 | 0400 | 30 | 25 | 0.76 | 0.76 | 0.97 | 3 | | |
| 189 | 22 | 1500 | 33 | 25 | 0.52 | 0.52 | 0.94 | 25 | | |
| 190 | 24 | 1700 | 23 | 25 | 0.26 | 0.26 | 0.44 | 23 | | |
| 191 | 28 | 2000 | 7 | 17 | 0.06 | 0.08 | 0.20 | 25 | | |
| March 1994 | | | | | | | | | | |
| 192 | 6 | 2300 | 9 | 25 | 0.33 | 0.33 | 0.47 | 10 | | |
| 193 | 12 | 2400 | 6 | 22 | 0.05 | 0.06 | 0.14 | 16 | | |
| 194 | 13 | 1500 | 6 | 16 | 0.02 | 0.04 | 0.06 | 6 | | |
| 195 | 21 | 0100 | 3 | 11 | 0.02 | 0.04 | 0.08 | 3 | | |
| 196 | 23 | 1900 | 4 | 3 | 0.01 | 0.06 | 0.08 | 2 | | |
| 197 | 26 | 0600 | 21 | 25 | 0.53 | 0.53 | 0.73 | 23 | | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|---------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| April 1994 | | | | | | | | | |
| 198 | 2 | 1500 | 8 | 25 | 0.24 | 0.24 | 0.31 | 3 | |
| 199 | 5 | 1500 | 6 | 17 | 0.03 | 0.05 | 0.08 | 15 | |
| 200 | 9 | 1500 | 17 | 25 | 0.43 | 0.43 | 0.62 | 2 | |
| 201 | 10 | 2300 | 38 | 25 | 2.03 | 2.03 | 2.64 | 25 | |
| 202 | 12 | 2300 | 9 | 16 | 0.03 | 0.05 | 0.12 | 1 | |
| 203 | 15 | 0300 | 8 | 25 | 0.39 | 0.39 | 0.59 | 22 | |
| 204 | 20 | 1900 | 17 | 25 | 0.34 | 0.34 | 1.12 | 25 | |
| 205 | 25 | 1800 | 6 | 24 | 0.09 | 0.09 | 0.21 | 1 | |
| 206 | 26 | 0400 | 4 | 5 | 0.01 | 0.03 | 0.05 | 4 | |
| 207 | 26 | 1800 | 5 | 6 | 0.04 | 0.16 | 0.35 | 22 | |
| 208 | 27 | 1700 | 22 | 25 | 0.70 | 0.70 | 0.87 | 19 | |
| 209 | 29 | 1700 | 22 | 25 | 0.72 | 0.72 | 0.92 | 19 | |
| May 1994 | | | | | | | | | |
| 210 | 5 | 1700 | 43 | 25 | 1.31 | 1.31 | 1.70 | 12 | |
| 211 | 9 | 1900 | 4 | 3 | 0.00 | 0.04 | 0.05 | 3 | |
| 212 | 11 | 1500 | 5 | 25 | 0.26 | 0.26 | 0.57 | 15 | |
| 213 | 14 | 0400 | 17 | 25 | 0.42 | 0.42 | 0.80 | 2 | |
| 214 | 24 | 1500 | 12 | 25 | 1.00 | 1.00 | 2.83 | 24 | 2-Yr |
| 215 | 25 | 1800 | 7 | 25 | 0.10 | 0.10 | 0.17 | 17 | |
| 216 | 31 | 1400 | 7 | 4 | 0.01 | 0.08 | 0.13 | 10 | |
| June 1994 | | | | | | | | | |
| 217 | 1 | 1700 | 21 | 25 | 0.75 | 0.75 | 1.13 | 13 | |
| 218 | 5 | 1100 | 7 | 24 | 0.16 | 0.16 | 0.47 | 10 | |
| 219 | 5 | 2400 | 1 | 1 | 0.00 | 0.07 | 0.07 | 23 | |
| 220 | 7 | 1900 | 21 | 25 | 0.69 | 0.69 | 1.62 | 19 | |
| 221 | 11 | 2400 | 3 | 11 | 0.05 | 0.11 | 0.17 | 9 | |
| 222 | 12 | 1100 | 8 | 25 | 0.47 | 0.47 | 1.16 | 14 | |
| 223 | 14 | 1600 | 3 | 2 | 0.00 | 0.05 | 0.06 | 4 | |
| 224 | 16 | 1600 | 5 | 17 | 0.23 | 0.34 | 1.08 | 14 | |
| 225 | 20 | 1500 | 7 | 5 | 0.02 | 0.10 | 0.18 | 23 | |
| 226 | 23 | 0500 | 7 | 5 | 0.02 | 0.10 | 0.18 | 23 | |
| 227 | 23 | 1300 | 20 | 25 | 0.26 | 0.26 | 0.37 | 24 | |
| 228 | 25 | 1900 | 6 | 21 | 0.10 | 0.12 | 0.52 | 15 | |
| 229 | 26 | 0500 | 17 | 25 | 0.38 | 0.38 | 0.89 | 22 | |
| July 1994 | | | | | | | | | |
| 230 | 2 | 1100 | 11 | 25 | 1.02 | 1.02 | 1.99 | 19 | |
| 231 | 4 | 0500 | 6 | 24 | 0.21 | 0.22 | 0.64 | 9 | |
| 232 | 7 | 1500 | 7 | 11 | 0.09 | 0.21 | 0.34 | 20 | |
| 233 | 16 | 1700 | 8 | 25 | 0.61 | 0.61 | 2.62 | 19 | 2-Yr |
| 234 | 19 | 0400 | 7 | 24 | 1.01 | 1.06 | 2.78 | 17 | 2-Yr |
| 235 | 20 | 0400 | 1 | 1 | 0.00 | 0.05 | 0.05 | 21 | |
| 236 | 20 | 1500 | 10 | 25 | 0.46 | 0.46 | 0.85 | 7 | |
| 237 | 21 | 2200 | 2 | 7 | 0.02 | 0.07 | 0.09 | 7 | |
| 238 | 24 | 1500 | 3 | 3 | 0.00 | 0.04 | 0.06 | 10 | |
| August 1994 | | | | | | | | | |
| 239 | 1 | 1300 | 11 | 16 | 0.13 | 0.20 | 0.77 | 24 | |
| 240 | 3 | 1500 | 19 | 25 | 0.91 | 0.91 | 1.75 | 18 | |
| 241 | 4 | 1500 | 7 | 24 | 0.17 | 0.18 | 0.49 | 3 | |
| 242 | 13 | 1500 | 4 | 22 | 0.40 | 0.45 | 0.79 | 18 | |
| 243 | 16 | 1600 | 5 | 2 | 0.01 | 0.10 | 0.14 | 10 | |
| 244 | 19 | 2100 | 9 | 23 | 0.15 | 0.16 | 0.33 | 23 | |
| 245 | 26 | 0800 | 5 | 25 | 0.45 | 0.45 | 1.01 | 16 | |
| 246 | 28 | 1200 | 7 | 25 | 0.18 | 0.18 | 0.30 | 4 | |
| 247 | 29 | 1800 | 3 | 4 | 0.01 | 0.09 | 0.12 | 23 | |
| 248 | 29 | 2400 | 1 | 1 | 0.00 | 0.04 | 0.14 | 11 | |
| 249 | 30 | 0600 | 8 | 25 | 1.25 | 1.25 | 1.83 | 25 | |
| 250 | 30 | 2300 | 2 | 4 | 0.01 | 0.06 | 0.13 | 25 | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|-----------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| September 1994 | | | | | | | | | |
| 251 | 4 | 1200 | 14 | 25 | 0.31 | 0.31 | 0.56 | 13 | |
| 252 | 21 | 2100 | 11 | 25 | 0.26 | 0.26 | 0.34 | 2 | |
| 253 | 22 | 1200 | 17 | 25 | 0.56 | 0.56 | 0.86 | 3 | |
| 254 | 25 | 0500 | 7 | 17 | 0.06 | 0.09 | 0.18 | 25 | |
| 255 | 25 | 1500 | 7 | 15 | 0.20 | 0.33 | 1.01 | 7 | |
| 256 | 26 | 0300 | 7 | 18 | 0.11 | 0.16 | 0.36 | 1 | |
| October 1994 | | | | | | | | | |
| 257 | 6 | 0300 | 2 | 2 | 0.00 | 0.06 | 0.08 | 25 | |
| 258 | 7 | 0800 | 34 | 25 | 1.71 | 1.71 | 2.55 | 24 | |
| 259 | 18 | 1300 | 10 | 25 | 0.12 | 0.12 | 0.20 | 22 | |
| 260 | 22 | 1900 | 2 | 14 | 0.06 | 0.10 | 0.21 | 21 | |
| 261 | 24 | 0600 | 5 | 11 | 0.03 | 0.06 | 0.13 | 25 | |
| 262 | 25 | 2300 | 3 | 4 | 0.01 | 0.04 | 0.06 | 21 | |
| 263 | 30 | 2400 | 22 | 25 | 1.41 | 1.41 | 1.80 | 19 | |
| November 1994 | | | | | | | | | |
| 264 | 3 | 1500 | 3 | 25 | 0.21 | 0.21 | 0.56 | 23 | |
| 265 | 4 | 0200 | 2 | 2 | 0.01 | 0.09 | 0.09 | 22 | |
| 266 | 4 | 0800 | 6 | 25 | 0.26 | 0.26 | 0.45 | 1 | |
| 267 | 4 | 2000 | 27 | 25 | 1.02 | 1.02 | 1.94 | 25 | |
| 268 | 9 | 0100 | 16 | 25 | 0.28 | 0.28 | 0.63 | 23 | |
| 269 | 13 | 2000 | 7 | 25 | 0.12 | 0.12 | 0.24 | 7 | |
| 270 | 20 | 0300 | 8 | 25 | 0.18 | 0.18 | 0.25 | 19 | |
| 271 | 20 | 1900 | 10 | 25 | 0.53 | 0.53 | 0.66 | 22 | |
| 272 | 27 | 0300 | 11 | 25 | 0.76 | 0.76 | 1.08 | 2 | |
| 273 | 30 | 0900 | 2 | 2 | 0.00 | 0.04 | 0.05 | 14 | |
| December 1994 | | | | | | | | | |
| 274 | 2 | 1900 | 8 | 24 | 0.06 | 0.06 | 0.16 | 3 | |
| 275 | 3 | 0700 | 4 | 10 | 0.01 | 0.03 | 0.04 | 7 | |
| 276 | 6 | 0400 | 26 | 25 | 1.70 | 1.70 | 1.97 | 2 | |
| 277 | 8 | 1700 | 12 | 25 | 0.21 | 0.21 | 0.29 | 2 | |
| 278 | 16 | 0100 | 12 | 25 | 0.27 | 0.27 | 0.37 | 23 | |
| 279 | 20 | 0300 | 4 | 5 | 0.01 | 0.17 | 0.10 | 17 | |
| 280 | 20 | 1300 | 4 | 6 | 0.01 | 0.05 | 0.08 | 18 | |
| 281 | 31 | 2300 | 2 | 7 | 0.01 | 0.04 | 0.06 | 8 | |
| January 1995 | | | | | | | | | |
| 282 | 6 | 0100 | 17 | 17 | 0.06 | 0.08 | 0.16 | 11 | |
| 283 | 13 | 0400 | 30 | 25 | 1.61 | 1.61 | 2.18 | 19 | |
| 284 | 17 | 0500 | 3 | 6 | 0.01 | 0.04 | 0.06 | 19 | |
| 235 | 18 | 2000 | 26 | 25 | 0.81 | 0.81 | 1.03 | 15 | |
| 286 | 27 | 0400 | 27 | 25 | 0.41 | 0.41 | 0.76 | 19 | |
| February 1995 | | | | | | | | | |
| 287 | 3 | 0200 | 14 | 25 | 0.19 | 0.19 | 0.41 | 25 | |
| 288 | 14 | 1400 | 5 | 20 | 0.03 | 0.04 | 0.06 | 23 | |
| 289 | 26 | 1600 | 15 | 25 | 0.38 | 0.38 | 0.51 | 19 | |
| March 1995 | | | | | | | | | |
| 290 | 4 | 2200 | 10 | 25 | 0.46 | 0.46 | 0.56 | 19 | |
| 291 | 6 | 2000 | 17 | 25 | 0.86 | 0.86 | 1.22 | 21 | |
| 292 | 20 | 0300 | 6 | 25 | 0.22 | 0.22 | 0.40 | 21 | |
| 293 | 22 | 1800 | 2 | 16 | 0.03 | 0.05 | 0.10 | 6 | |
| 294 | 26 | 0400 | 4 | 25 | 0.06 | 0.06 | 0.09 | 1 | |
| 295 | 26 | 2100 | 10 | 25 | 0.31 | 0.31 | 0.42 | 19 | |
| April 1995 | | | | | | | | | |
| 296 | 3 | 0900 | 6 | 25 | 0.27 | 0.27 | 0.43 | 12 | |
| 297 | 6 | 1200 | 2 | 2 | 0.01 | 0.11 | 0.13 | 25 | |
| 298 | 6 | 1800 | 8 | 11 | 0.01 | 0.03 | 0.05 | 12 | |
| 299 | 7 | 2100 | 11 | 25 | 0.86 | 0.86 | 1.34 | 16 | |

Table V-1. (Continued)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|--------------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| April 1995 (cont) | | | | | | | | | |
| 300 | 9 | 0100 | 7 | 25 | 0.64 | 0.64 | 0.84 | 15 | |
| 301 | 9 | 2300 | 9 | 25 | 0.35 | 0.35 | 0.63 | 1 | |
| 302 | 10 | 1300 | 2 | 12 | 0.04 | 0.08 | 0.16 | 8 | |
| 303 | 10 | 2000 | 2 | 2 | 0.00 | 0.02 | 0.03 | 25 | |
| 304 | 11 | 1000 | 11 | 25 | 0.39 | 0.39 | 0.50 | 1 | |
| 305 | 15 | 1400 | 3 | 7 | 0.01 | 0.04 | 0.05 | 12 | |
| 306 | 16 | 2100 | 4 | 25 | 0.32 | 0.32 | 0.57 | 5 | |
| 307 | 17 | 2000 | 11 | 25 | 0.74 | 0.74 | 0.95 | 2 | |
| 308 | 20 | 0200 | 7 | 25 | 0.31 | 0.31 | 0.39 | 23 | |
| 309 | 20 | 2200 | 2 | 5 | 0.01 | 0.07 | 0.13 | 24 | |
| 310 | 23 | 1700 | 1 | 1 | 0.00 | 0.04 | 0.04 | 9 | |
| 311 | 24 | 1400 | 5 | 23 | 0.06 | 0.06 | 0.12 | 7 | |
| 312 | 26 | 0600 | 9 | 25 | 0.11 | 0.11 | 0.20 | 2 | |
| 313 | 26 | 2200 | 8 | 25 | 0.57 | 0.57 | 0.79 | 22 | |
| 314 | 29 | 1200 | 11 | 25 | 0.17 | 0.17 | 0.25 | 22 | |
| May 1995 | | | | | | | | | |
| 315 | 3 | 1500 | 18 | 24 | 0.07 | 0.08 | 0.18 | 22 | |
| 316 | 7 | 1900 | 17 | 25 | 1.22 | 1.22 | 1.76 | 4 | |
| 317 | 8 | 1600 | 14 | 25 | 0.59 | 0.59 | 1.18 | 1 | |
| 318 | 9 | 1600 | 4 | 16 | 0.09 | 0.14 | 0.47 | 3 | |
| 319 | 10 | 0200 | 12 | 21 | 0.12 | 0.14 | 0.45 | 17 | |
| 320 | 12 | 2000 | 12 | 25 | 0.40 | 0.40 | 0.50 | 7 | |
| 321 | 13 | 1800 | 1 | 2 | 0.01 | 0.09 | 0.12 | 2 | |
| 322 | 16 | 0500 | 7 | 23 | 0.08 | 0.09 | 0.39 | 25 | |
| 323 | 16 | 1500 | 12 | 25 | 2.31 | 2.31 | 4.22 | 19 | 10-Yr |
| 324 | 17 | 0800 | 21 | 25 | 0.88 | 0.88 | 1.03 | 9 | |
| 325 | 18 | 1000 | 9 | 25 | 0.75 | 0.75 | 1.85 | 18 | |
| 326 | 23 | 1000 | 6 | 25 | 0.23 | 0.23 | 0.46 | 9 | |
| 327 | 23 | 1900 | 24 | 25 | 2.77 | 2.77 | 3.78 | 19 | 5-Yr |
| 328 | 26 | 2200 | 8 | 25 | 0.08 | 0.08 | 0.13 | 18 | |
| 329 | 27 | 1000 | 15 | 25 | 0.73 | 0.73 | 1.13 | 22 | |
| 330 | 28 | 0700 | 1 | 1 | 0.00 | 0.02 | 0.02 | 24 | |
| June 1995 | | | | | | | | | |
| 331 | 2 | 0800 | 8 | 12 | 0.03 | 0.07 | 0.13 | 10 | |
| 332 | 8 | 0700 | 5 | 25 | 0.37 | 0.37 | 0.70 | 13 | |
| 333 | 9 | 0900 | 5 | 22 | 0.11 | 0.12 | 0.26 | 16 | |
| 334 | 9 | 2300 | 4 | 7 | 0.03 | 0.12 | 0.28 | 3 | |
| 335 | 11 | 1300 | 4 | 14 | 0.02 | 0.03 | 0.04 | 1 | |
| 336 | 20 | 1800 | 11 | 25 | 0.35 | 0.35 | 1.11 | 16 | |
| 337 | 21 | 1900 | 6 | 25 | 0.55 | 0.55 | 2.67 | 19 | 2-Yr |
| 338 | 23 | 1400 | 6 | 9 | 0.02 | 0.06 | 0.14 | 23 | |
| 339 | 24 | 0100 | 6 | 10 | 0.27 | 0.68 | 2.52 | 22 | 2-Yr |
| 340 | 24 | 1600 | 5 | 9 | 0.15 | 0.40 | 1.91 | 2 | |
| 341 | 25 | 1400 | 6 | 16 | 0.06 | 0.09 | 0.35 | 17 | |
| 342 | 26 | 0200 | 16 | 24 | 0.23 | 0.24 | 0.90 | 1 | |
| 343 | 27 | 1100 | 11 | 15 | 0.06 | 0.10 | 0.42 | 19 | |
| 344 | 28 | 1400 | 7 | 23 | 0.30 | 0.33 | 1.10 | 17 | |
| 345 | 29 | 1100 | 11 | 24 | 0.10 | 0.10 | 0.42 | 24 | |
| July 1995 | | | | | | | | | |
| 346 | 4 | 0300 | 14 | 23 | 0.34 | 0.37 | 1.09 | 1 | |
| 347 | 4 | 2300 | 5 | 18 | 0.09 | 0.13 | 0.35 | 4 | |
| 348 | 5 | 2100 | 4 | 18 | 0.07 | 0.09 | 0.37 | 1 | |
| 349 | 9 | 1300 | 5 | 9 | 0.02 | 0.06 | 0.14 | 16 | |
| 350 | 16 | 1400 | 5 | 24 | 0.26 | 0.27 | 0.94 | 12 | |
| 351 | 18 | 2000 | 5 | 2 | 0.02 | 0.20 | 0.31 | 10 | |
| 352 | 20 | 0700 | 10 | 23 | 0.21 | 0.23 | 0.45 | 8 | |

Table V-1. (Concluded)

| <i>Storm number</i> | <i>Storm date</i> | <i>Start time</i> | <i>Storm duration</i> | <i>Number gages</i> | <i>Network avg.</i> | <i>Storm avg.</i> | <i>Network max.</i> | <i>Gage with max.</i> | <i>Storm recurrence frequency</i> |
|-------------------------|-------------------|-------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|-----------------------|-----------------------------------|
| July 1995 (cont) | | | | | | | | | |
| 353 | 20 | 2000 | 4 | 3 | 0.00 | 0.03 | 0.03 | 1 | |
| 354 | 21 | 0800 | 6 | 25 | 0.44 | 0.44 | 0.85 | 12 | |
| 355 | 23 | 0600 | 6 | 25 | 0.46 | 0.46 | 1.10 | 18 | |
| 356 | 23 | 2100 | 4 | 21 | 0.13 | 0.16 | 0.75 | 19 | |
| 357 | 24 | 1600 | 5 | 17 | 0.19 | 0.28 | 0.84 | 24 | |
| 358 | 25 | 1300 | 15 | 22 | 0.21 | 0.24 | 0.56 | 24 | |
| 359 | 26 | 1700 | 4 | 18 | 0.19 | 0.26 | 0.74 | 20 | |
| 360 | 27 | 2000 | 5 | 16 | 0.05 | 0.08 | 0.21 | 14 | |
| 361 | 31 | 2000 | 8 | 22 | 0.17 | 0.20 | 0.65 | 3 | |
| August 1995 | | | | | | | | | |
| 362 | 1 | 1500 | 5 | 15 | 0.07 | 0.11 | 0.55 | 22 | |
| 363 | 2 | 0200 | 17 | 25 | 0.64 | 0.64 | 0.98 | 19 | |
| 364 | 3 | 0100 | 11 | 23 | 0.22 | 0.24 | 0.57 | 23 | |
| 365 | 3 | 2300 | 15 | 23 | 0.28 | 0.31 | 1.29 | 22 | |
| 366 | 4 | 2100 | 1 | 1 | 0.00 | 0.01 | 0.01 | 25 | |
| 367 | 5 | 0200 | 5 | 9 | 0.02 | 0.06 | 0.12 | 11 | |
| 368 | 6 | 1800 | 2 | 1 | 0.00 | 0.04 | 0.04 | 24 | |
| 369 | 6 | 2300 | 3 | 13 | 0.05 | 0.10 | 0.29 | 12 | |
| 370 | 8 | 0400 | 3 | 4 | 0.01 | 0.08 | 0.23 | 19 | |
| 371 | 8 | 1200 | 6 | 25 | 0.45 | 0.45 | 1.15 | 7 | |
| 372 | 9 | 1900 | 12 | 25 | 0.55 | 0.55 | 2.26 | 12 | 1-Yr |
| 373 | 13 | 1900 | 3 | 1 | 0.01 | 0.15 | 0.15 | 2 | |
| 374 | 14 | 1100 | 2 | 1 | 0.00 | 0.03 | 0.03 | 10 | |
| 375 | 15 | 1600 | 8 | 20 | 0.17 | 0.22 | 0.68 | 1 | |
| 376 | 16 | 1100 | 1 | 1 | 0.00 | 0.02 | 0.02 | 18 | |
| 377 | 16 | 1500 | 7 | 12 | 0.03 | 0.07 | 0.17 | 24 | |
| 378 | 17 | 0100 | 7 | 25 | 0.26 | 0.26 | 0.51 | 23 | |
| 379 | 24 | 1500 | 2 | 1 | 0.00 | 0.09 | 0.09 | 10 | |

Table V-2. Precipitation Received at each Station from each Storm during the Observation Period (September 1992-August 1995)

| <i>Strutft</i> | <i>Date</i> | <i>Hour</i> | <i>Duration*</i> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------|-------------|-------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 090192 | 0900 | 8 | 0.50 | 0.65 | 0.13 | 0.94 | 0.59 | 0.87 | 0.16 | 0.22 | 0.16 | 0.32 | 1.07 | 0.30 | 0.04 | 0.37 | 1.03 | 0.91 | 0.25 | 0.13 | 0.69 | 0.46 | 0.27 | 0.53 | 0.40 | 0.18 | 0.13 |
| 2 | 090292 | 0300 | 11 | 0.28 | 0.22 | 0.23 | 0.38 | 0.19 | 0.20 | 0.14 | 0.33 | 0.24 | 0.21 | 0.19 | 0.16 | 0.21 | 0.29 | 0.20 | 0.15 | 0.16 | 0.20 | 0.35 | 0.25 | 0.24 | 0.21 | 0.19 | 0.23 | 0.32 |
| 3 | 090292 | 2100 | 3 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.12 | 0.19 | 0.16 | 0.28 | 0.00 | 0.08 | 0.07 | 0.09 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.00 | 0.00 |
| 4 | 090792 | 2100 | 7 | 0.42 | 0.41 | 0.61 | 0.74 | 0.86 | 0.93 | 0.40 | 0.54 | 0.94 | 0.72 | 0.40 | 0.46 | 0.66 | 0.50 | 0.55 | 0.59 | 0.42 | 1.14 | 0.94 | 1.08 | 0.88 | 0.83 | 0.40 | 1.83 | 1.26 |
| 5 | 090992 | 0300 | 20 | 1.37 | 1.43 | 1.21 | 1.45 | 1.46 | 1.23 | 1.45 | 1.68 | 1.68 | 1.53 | 1.62 | 1.42 | 1.56 | 1.89 | 1.33 | 1.48 | 1.43 | 1.31 | 0.82 | 0.90 | 1.11 | 1.24 | 1.36 | 0.82 | 0.69 |
| 6 | 091492 | 1400 | 2 | 0.00 | 0.00 | 0.00 | 0.13 | 0.25 | 0.04 | 0.05 | 0.00 | 0.00 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 091892 | 0600 | 6 | 0.06 | 0.06 | 0.02 | 0.05 | 0.05 | 0.02 | 0.03 | 0.10 | 0.07 | 0.04 | 0.04 | 0.03 | 0.00 | 0.03 | 0.01 | 0.04 | 0.04 | 0.03 | 0.02 | 0.07 | 0.00 | 0.05 | 0.07 | 0.12 | 0.14 |
| 8 | 091892 | 1800 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 9 | 092092 | 0800 | 24 | 1.28 | 1.15 | 0.94 | 1.27 | 1.42 | 0.83 | 1.27 | 1.21 | 0.99 | 1.33 | 1.32 | 0.99 | 1.20 | 1.00 | 1.12 | 0.96 | 0.87 | 1.17 | 1.12 | 0.94 | 1.13 | 0.92 | 0.71 | 1.03 | 0.84 |
| 10 | 092592 | 2200 | 24 | 0.23 | 0.15 | 0.18 | 0.33 | 0.21 | 0.17 | 0.12 | 0.28 | 0.24 | 0.21 | 0.15 | 0.14 | 0.28 | 0.29 | 0.21 | 0.11 | 0.13 | 0.37 | 0.38 | 0.31 | 0.17 | 0.15 | 0.21 | 0.36 | 0.35 |
| 11 | 100892 | 0300 | 37 | 0.32 | 0.30 | 0.46 | 0.33 | 0.32 | 0.39 | 0.35 | 0.40 | 0.35 | 0.50 | 0.43 | 0.43 | 0.28 | 0.26 | 0.26 | 0.27 | 0.30 | 0.29 | 0.29 | 0.19 | 0.29 | 0.33 | 0.30 | 0.41 | 0.41 |
| 12 | 100992 | 2400 | 8 | 0.14 | 0.14 | 0.07 | 0.17 | 0.10 | 0.08 | 0.05 | 0.11 | 0.13 | 0.05 | 0.07 | 0.09 | 0.07 | 0.06 | 0.07 | 0.06 | 0.08 | 0.04 | 0.00 | 0.03 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 |
| 13 | 101092 | 1600 | 3 | 0.09 | 0.06 | 0.05 | 0.07 | 0.05 | 0.15 | 0.05 | 0.02 | 0.04 | 0.08 | 0.20 | 0.05 | 0.00 | 0.03 | 0.05 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 101492 | 2300 | 11 | 0.90 | 0.82 | 0.64 | 0.94 | 0.99 | 1.08 | 0.85 | 0.83 | 1.14 | 1.25 | 1.24 | 1.04 | 0.53 | 1.09 | 0.99 | 1.05 | 1.00 | 0.36 | 0.56 | 0.62 | 0.65 | 0.88 | 1.14 | 0.26 | 0.33 |
| 15 | 101592 | 2000 | 3 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.02 | 0.03 | 0.00 | 0.01 | 0.03 | 0.05 | 0.05 | 0.05 | 0.04 | 0.07 | 0.03 | 0.04 | 0.06 | 0.09 | 0.09 | 0.16 | 0.00 | 0.06 |
| 16 | 101992 | 2200 | 6 | 0.10 | 0.10 | 0.06 | 0.14 | 0.14 | 0.11 | 0.09 | 0.16 | 0.13 | 0.11 | 0.12 | 0.12 | 0.19 | 0.17 | 0.22 | 0.16 | 0.14 | 0.30 | 0.26 | 0.24 | 0.24 | 0.24 | 0.19 | 0.43 | 0.42 |
| 17 | 102892 | 1900 | 4 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.03 | 0.02 | 0.05 | 0.07 | 0.04 | 0.04 | 0.05 | 0.00 | 0.05 | 0.00 | 0.04 | 0.05 | 0.04 | 0.00 | 0.00 |
| 18 | 102992 | 0400 | 6 | 0.10 | 0.09 | 0.06 | 0.09 | 0.09 | 0.05 | 0.05 | 0.07 | 0.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 102992 | 1800 | 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.03 | 0.03 | 0.05 | 0.06 | 0.06 | 0.07 | 0.05 | 0.07 | 0.11 | 0.04 | 0.06 | 0.13 | 0.22 | 0.17 | 0.17 | 0.21 | 0.29 | 0.25 |
| 20 | 103192 | 1600 | 38 | 1.52 | 1.71 | 1.49 | 1.29 | 2.22 | 2.32 | 1.93 | 1.57 | 1.97 | 3.21 | 3.39 | 2.37 | 2.08 | 1.54 | 3.08 | 2.21 | 2.80 | 1.87 | 2.44 | 2.77 | 2.59 | 1.95 | 1.93 | 1.74 | 2.39 |
| 21 | 110392 | 0900 | 14 | 0.59 | 0.59 | 0.60 | 0.57 | 0.62 | 0.58 | 0.70 | 0.54 | 0.61 | 0.62 | 0.65 | 0.73 | 0.56 | 0.59 | 0.66 | 0.68 | 0.77 | 0.48 | 0.68 | 0.59 | 0.65 | 0.81 | 0.76 | 0.52 | 0.57 |
| 22 | 110892 | 2300 | 12 | 0.33 | 0.32 | 0.30 | 0.28 | 0.33 | 0.26 | 0.23 | 0.28 | 0.26 | 0.22 | 0.25 | 0.20 | 0.21 | 0.23 | 0.16 | 0.18 | 0.19 | 0.13 | 0.20 | 0.14 | 0.18 | 0.28 | 0.26 | 0.22 | 0.18 |
| 23 | 110992 | 1900 | 16 | 0.37 | 0.51 | 0.71 | 0.42 | 0.69 | 0.78 | 0.62 | 0.47 | 0.61 | 0.89 | 0.79 | 0.81 | 0.81 | 0.70 | 0.79 | 0.71 | 0.83 | 0.87 | 1.02 | 0.72 | 0.66 | 0.70 | 0.62 | 0.84 | 0.74 |
| 24 | 111092 | 1700 | 15 | 0.11 | 0.08 | 0.07 | 0.07 | 0.09 | 0.07 | 0.11 | 0.10 | 0.11 | 0.11 | 0.22 | 0.15 | 0.13 | 0.18 | 0.15 | 0.16 | 0.19 | 0.14 | 0.18 | 0.19 | 0.30 | 0.19 | 0.16 | 0.20 | 0.27 |
| 25 | 111192 | 1700 | 23 | 0.73 | 0.61 | 0.79 | 0.67 | 0.68 | 0.75 | 0.46 | 0.67 | 0.59 | 0.73 | 0.62 | 0.52 | 0.72 | 0.56 | 0.55 | 0.43 | 0.45 | 0.64 | 0.76 | 0.50 | 0.42 | 0.45 | 0.38 | 0.53 | 0.40 |
| 26 | 111792 | 1900 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 |
| 27 | 111892 | 0200 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.09 |
| 28 | 111892 | 1500 | 18 | 0.52 | 0.29 | 0.41 | 0.62 | 0.52 | 0.51 | 0.45 | 0.63 | 0.59 | 0.57 | 0.48 | 0.48 | 0.67 | 0.55 | 0.56 | 0.54 | 0.43 | 0.49 | 0.84 | 0.46 | 0.47 | 0.37 | 0.36 | 0.46 | 0.61 |
| 29 | 111992 | 2400 | 12 | 0.34 | 0.18 | 0.17 | 0.24 | 0.28 | 0.18 | 0.16 | 0.22 | 0.18 | 0.21 | 0.18 | 0.15 | 0.16 | 0.15 | 0.23 | 0.19 | 0.08 | 0.11 | 0.23 | 0.22 | 0.19 | 0.17 | 0.14 | 0.16 | 0.19 |
| 30 | 112092 | 1600 | 11 | 0.49 | 0.44 | 0.37 | 0.54 | 0.43 | 0.39 | 0.40 | 0.60 | 0.48 | 0.46 | 0.38 | 0.35 | 0.57 | 0.44 | 0.45 | 0.37 | 0.36 | 0.61 | 0.57 | 0.44 | 0.42 | 0.35 | 0.35 | 0.66 | 0.63 |
| 31 | 112292 | 0400 | 25 | 0.56 | 0.39 | 0.49 | 0.53 | 0.59 | 0.63 | 0.39 | 0.52 | 0.60 | 0.75 | 0.73 | 0.74 | 0.54 | 0.60 | 0.68 | 0.89 | 0.87 | 0.54 | 0.86 | 0.66 | 0.68 | 0.82 | 0.77 | 0.66 | 0.79 |
| 32 | 112592 | 0300 | 20 | 0.52 | 0.37 | 0.41 | 0.47 | 0.40 | 0.30 | 0.16 | 0.43 | 0.39 | 0.35 | 0.26 | 0.23 | 0.45 | 0.38 | 0.34 | 0.33 | 0.36 | 0.41 | 0.51 | 0.42 | 0.37 | 0.41 | 0.44 | 0.30 | 0.46 |
| 33 | 113092 | 1500 | 6 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.00 | 0.00 | 0.06 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 120392 | 0700 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.03 | 0.00 | 0.00 |
| 35 | 120992 | 1200 | 25 | 0.38 | 0.27 | 0.31 | 0.34 | 0.24 | 0.27 | 0.30 | 0.33 | 0.34 | 0.35 | 0.44 | 0.25 | 0.41 | 0.32 | 0.37 | 0.34 | 0.36 | 0.31 | 0.37 | 0.33 | 0.36 | 0.37 | 0.43 | 0.40 | 0.41 |
| 36 | 121492 | 0900 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 121492 | 2100 | 24 | 1.43 | 1.34 | 1.31 | 1.60 | 1.53 | 1.54 | 1.30 | 1.60 | 1.73 | 1.48 | 1.62 | 1.16 | 1.61 | 1.62 | 1.45 | 1.22 | 1.29 | 1.65 | 1.98 | 1.60 | 1.53 | 1.48 | 1.41 | 1.81 | 1.59 |
| 38 | 121992 | 0500 | 2 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 121992 | 1000 | 11 | 0.33 | 0.34 | 0.39 | 0.36 | 0.32 | 0.37 | 0.32 | 0.34 | 0.37 | 0.27 | 0.30 | 0.26 | 0.30 | 0.37 | 0.24 | 0.29 | 0.31 | 0.22 | 0.33 | 0.28 | 0.25 | 0.16 | 0.15 | 0.30 | 0.28 |
| 40 | 122092 | 0800 | 5 | 0.04 | 0.04 | 0.06 | 0.00 | 0.07 | 0.06 | 0.06 | 0.00 | 0.00 | 0.08 | 0.07 | 0.07 | 0.07 | 0.02 | 0.08 | 0.06 | 0.00 | 0.02 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 122892 | 1000 | 2 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 122892 | 2300 | 47 | 0.67 | 0.72 | 0.68 | 0.60 | 0.64 | 0.48 | 0.66 | 0.48 | 0.51 | 0.75 | 0.75 | 0.69 | 0.70 | 0.70 | 0.59 | 0.71 | 0.56 | 0.55 | 0.59 | 0.55 | 0.63 | 0.86 | 0.70 | 0.37 | 0.29 |
| 43 | 010193 | 2000 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| Sum# | Date | Hour | Duration* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|------|--------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 44 | 010293 | 0400 | 34 | 0.31 | 0.30 | 0.41 | 0.24 | 0.29 | 0.24 | 0.27 | 0.22 | 0.24 | 0.17 | 0.29 | 0.11 | 0.40 | 0.21 | 0.29 | 0.25 | 0.27 | 0.22 | 0.33 | 0.33 | 0.28 | 0.25 | 0.17 | 0.21 | 0.29 |
| 45 | 010393 | 2100 | 23 | 1.65 | 1.58 | 1.70 | 1.71 | 1.62 | 1.75 | 1.64 | 1.67 | 1.71 | 1.63 | 1.80 | 1.47 | 1.69 | 1.79 | 1.52 | 1.62 | 1.81 | 1.62 | 1.71 | 2.24 | 1.70 | 1.85 | 1.83 | 1.79 | 1.46 |
| 46 | 010693 | 1100 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.06 | 0.00 | 0.00 |
| 47 | 010793 | 1100 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.03 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48 | 010793 | 2000 | 15 | 0.04 | 0.04 | 0.09 | 0.07 | 0.08 | 0.06 | 0.06 | 0.09 | 0.06 | 0.10 | 0.05 | 0.08 | 0.25 | 0.13 | 0.08 | 0.08 | 0.09 | 0.00 | 0.00 | 0.05 | 0.07 | 0.05 | 0.05 | 0.09 | 0.13 |
| 49 | 010993 | 1300 | 20 | 0.17 | 0.18 | 0.23 | 0.10 | 0.11 | 0.09 | 0.08 | 0.19 | 0.33 | 0.25 | 0.22 | 0.44 | 0.12 | 0.48 | 0.17 | 0.17 | 0.33 | 0.08 | 0.36 | 0.15 | 0.18 | 0.19 | 0.17 | 0.23 | 0.52 |
| 50 | 011293 | 0700 | 24 | 0.33 | 0.42 | 0.43 | 0.30 | 0.26 | 0.37 | 0.43 | 0.20 | 0.23 | 0.40 | 0.44 | 0.42 | 0.10 | 0.23 | 0.33 | 0.46 | 0.38 | 0.06 | 0.35 | 0.35 | 0.42 | 0.46 | 0.39 | 0.23 | 0.21 |
| 51 | 012093 | 0900 | 21 | 1.14 | 1.05 | 0.69 | 0.81 | 1.03 | 0.96 | 0.72 | 0.76 | 0.87 | 0.94 | 1.02 | 0.81 | 0.89 | 0.67 | 0.85 | 0.98 | 1.02 | 0.80 | 1.10 | 0.84 | 0.99 | 1.23 | 1.11 | 0.77 | 0.83 |
| 52 | 021193 | 0800 | 30 | 0.85 | 0.66 | 0.38 | 0.87 | 0.85 | 0.92 | 0.50 | 0.48 | 0.53 | 0.72 | 1.03 | 1.10 | 0.56 | 0.57 | 0.60 | 0.75 | 0.97 | 0.49 | 0.84 | 0.56 | 0.58 | 0.57 | 0.58 | 0.67 | 0.88 |
| 53 | 021293 | 1800 | 23 | 0.21 | 0.00 | 0.06 | 0.12 | 0.04 | 0.08 | 0.04 | 0.13 | 0.11 | 0.11 | 0.08 | 0.00 | 0.14 | 0.24 | 0.20 | 0.18 | 0.10 | 0.21 | 0.18 | 0.19 | 0.12 | 0.06 | 0.08 | 0.14 | 0.12. |
| 54 | 021593 | 1500 | 18 | 0.11 | 0.05 | 0.16 | 0.14 | 0.06 | 0.12 | 0.14 | 0.13 | 0.15 | 0.21 | 0.20 | 0.09 | 0.21 | 0.17 | 0.18 | 0.15 | 0.12 | 0.07 | 0.27 | 0.12 | 0.15 | 0.17 | 0.19 | 0.20 | 0.14 |
| 55 | 022093 | 1400 | 24 | 0.65 | 0.44 | 0.33 | 0.41 | 0.49 | 0.40 | 0.36 | 0.41 | 0.51 | 0.49 | 0.75 | 0.36 | 0.53 | 0.47 | 0.42 | 0.42 | 0.42 | 0.40 | 0.52 | 0.40 | 0.36 | 0.31 | 0.48 | 0.33 | 0.35 |
| 56 | 022593 | 0500 | 26 | 0.18 | 0.09 | 0.17 | 0.12 | 0.17 | 0.17 | 0.09 | 0.20 | 0.17 | 0.19 | 0.17 | 0.35 | 0.42 | 0.32 | 0.23 | 0.23 | 0.34 | 0.18 | 0.69 | 0.14 | 0.12 | 0.26 | 0.23 | 0.13 | 0.41 |
| 57 | 030293 | 0800 | 14 | 0.48 | 0.51 | 0.31 | 0.30 | 0.35 | 0.29 | 0.21 | 0.33 | 0.22 | 0.32 | 0.34 | 0.24 | 0.33 | 0.16 | 0.23 | 0.24 | 0.26 | 0.31 | 0.36 | 0.21 | 0.25 | 0.29 | 0.20 | 0.33 | 0.34 |
| 58 | 030393 | 0400 | 47 | 0.61 | 0.28 | 0.26 | 1.12 | 1.06 | 0.87 | 0.51 | 1.22 | 1.39 | 1.32 | 1.25 | 1.00 | 1.28 | 1.42 | 1.33 | 1.32 | 1.22 | 1.39 | 1.96 | 1.42 | 1.10 | 1.19 | 1.09 | 1.55 | 1.86 |
| 59 | 030593 | 1900 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 60 | 030793 | 1700 | 7 | 0.03 | 0.00 | 0.03 | 0.17 | 0.05 | 0.02 | 0.04 | 0.00 | 0.03 | 0.05 | 0.00 | 0.05 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.13 |
| 61 | 030993 | 2400 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 031593 | 2100 | 25 | 0.46 | 0.45 | 0.45 | 0.38 | 0.44 | 0.40 | 0.33 | 0.29 | 0.41 | 0.39 | 0.36 | 0.29 | 0.35 | 0.42 | 0.38 | 0.40 | 0.41 | 0.25 | 0.29 | 0.27 | 0.32 | 0.28 | 0.28 | 0.42 | 0.30 |
| 63 | 031993 | 0200 | 21 | 0.16 | 0.10 | 0.16 | 0.15 | 0.19 | 0.21 | 0.19 | 0.12 | 0.20 | 0.26 | 0.40 | 0.19 | 0.28 | 0.26 | 0.28 | 0.21 | 0.23 | 0.21 | 0.30 | 0.27 | 0.24 | 0.35 | 0.36 | 0.29 | 0.22 |
| 64 | 032093 | 0700 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.04 | 0.00 | 0.00 |
| 65 | 032193 | 1100 | 41 | 1.69 | 1.46 | 1.40 | 1.71 | 1.63 | 1.44 | 1.29 | 1.61 | 1.52 | 1.50 | 1.38 | 1.12 | 1.68 | 1.45 | 1.44 | 1.20 | 1.16 | 1.43 | 1.58 | 1.27 | 1.22 | 1.18 | 1.00 | 1.49 | 1.53 |
| 66 | 033093 | 2200 | 43 | 0.77 | 0.73 | 0.82 | 0.69 | 0.56 | 0.56 | 0.61 | 0.79 | 0.74 | 0.43 | 0.50 | 0.58 | 0.62 | 0.70 | 0.53 | 0.37 | 0.36 | 0.46 | 0.81 | 0.44 | 0.32 | 0.32 | 0.24 | 0.46 | 0.43 |
| 67 | 040193 | 2200 | 10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.19 |
| 68 | 040593 | 2400 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 040793 | 1000 | 37 | 0.91 | 0.89 | 0.95 | 0.79 | 0.84 | 0.85 | 0.72 | 0.76 | 0.90 | 0.90 | 0.93 | 0.74 | 0.77 | 0.95 | 0.77 | 0.76 | 0.76 | 0.72 | 0.95 | 0.68 | 0.72 | 0.72 | 0.64 | 0.63 | 0.64 |
| 70 | 041293 | 1900 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.10 | 0.08 | |
| 71 | 041393 | 1400 | 16 | 0.82 | 0.75 | 0.81 | 0.87 | 0.76 | 0.95 | 0.84 | 0.82 | 0.76 | 1.21 | 1.19 | 0.96 | 1.27 | 0.83 | 1.25 | 1.27 | 1.32 | 1.44 | 1.78 | 1.42 | 1.87 | 1.83 | 1.56 | 1.38 | 1.60 |
| 72 | 041493 | 1300 | 34 | 1.69 | 1.63 | 1.46 | 1.74 | 2.07 | 1.67 | 1.61 | 1.13 | 1.85 | 1.55 | 1.56 | 1.85 | 1.12 | 1.86 | 2.09 | 1.62 | 1.68 | 1.31 | 1.24 | 1.66 | 1.96 | 1.87 | 1.69 | 1.40 | 1.26 |
| 73 | 041693 | 1100 | 9 | 0.08 | 0.00 | 0.06 | 0.00 | 0.03 | 0.07 | 0.06 | 0.00 | 0.03 | 0.05 | 0.00 | 0.04 | 0.00 | 0.06 | 0.04 | 0.00 | 0.05 | 0.09 | 0.10 | 0.11 | 0.00 | 0.00 | 0.06 | 0.02 | 0.05 |
| 74 | 041993 | 0300 | 7 | 0.18 | 0.14 | 0.08 | 0.14 | 0.17 | 0.12 | 0.10 | 0.13 | 0.12 | 0.15 | 0.12 | 0.10 | 0.15 | 0.10 | 0.12 | 0.12 | 0.10 | 0.22 | 0.11 | 0.18 | 0.14 | 0.10 | 0.09 | 0.13 | 0.15 |
| 75 | 041993 | 1600 | 26 | 0.66 | 0.52 | 0.73 | 0.40 | 0.71 | 0.80 | 0.52 | 0.81 | 0.67 | 0.85 | 0.61 | 0.83 | 0.87 | 0.77 | 0.70 | 0.83 | 1.09 | 0.80 | 0.74 | 0.93 | 0.97 | 1.06 | 0.91 | 0.89 | 0.75 |
| 76 | 042493 | 2100 | 13 | 0.25 | 0.29 | 0.14 | 0.19 | 0.24 | 0.16 | 0.17 | 0.23 | 0.24 | 0.21 | 0.21 | 0.22 | 0.25 | 0.29 | 0.24 | 0.25 | 0.25 | 0.39 | 0.25 | 0.38 | 0.20 | 0.27 | 0.26 | 0.34 | 0.24 |
| 77 | 042893 | 2400 | 13 | 0.18 | 0.09 | 0.21 | 0.20 | 0.28 | 0.19 | 0.16 | 0.22 | 0.19 | 0.19 | 0.26 | 0.16 | 0.26 | 0.20 | 0.20 | 0.18 | 0.17 | 0.12 | 0.22 | 0.20 | 0.19 | 0.08 | 0.11 | 0.21 | 0.18 |
| 78 | 050193 | 0100 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 050193 | 1200 | 12 | 0.14 | 0.17 | 0.08 | 0.16 | 0.12 | 0.12 | 0.00 | 0.39 | 0.15 | 0.30 | 0.00 | 0.06 | 0.23 | 0.22 | 0.25 | 0.09 | 0.02 | 0.15 | 0.16 | 0.22 | 0.21 | 0.03 | 0.00 | 0.00 | 0.11 |
| 80 | 050293 | 1400 | 25 | 0.15 | 0.11 | 0.10 | 0.49 | 0.13 | 0.14 | 0.11 | 0.28 | 0.11 | 0.14 | 0.15 | 0.11 | 0.13 | 0.26 | 0.12 | 0.18 | 0.22 | 0.46 | 0.22 | 0.14 | 0.14 | 0.19 | 0.21 | 0.46 | 0.56 |
| 81 | 050493 | 0300 | 16 | 0.35 | 0.54 | 0.81 | 0.23 | 0.41 | 0.12 | 0.79 | 0.00 | 0.06 | 0.08 | 0.24 | 0.68 | 0.00 | 0.00 | 0.13 | 0.32 | 0.57 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 0.07 | 0.00 |
| 82 | 050593 | 0700 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 050593 | 1100 | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.10 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| 84 | 050693 | 0600 | 10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.33 | 0.06 | 0.00 | 0.84 | 0.47 | 0.25 | 0.05 | 0.14 | 0.00 | 0.99 | 0.59 |
| 85 | 051093 | 1100 | 13 | 0.04 | 0.09 | 0.06 | 0.06 | 0.00 | 0.09 | 0.10 | 0.67 | 0.00 | 0.04 | 0.05 | 0.03 | 0.68 | 0.20 | 0.11 | 0.05 | 0.00 | 0.05 | 0.22 | 0.08 | 0.28 | 0.05 | 0.06 | 0.20 | 0.05 |
| 86 | 051193 | 1700 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| Strm# | Date | Hour | Duration* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|-------|---------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87 | 05 1293 | 1300 | 9 | 0.39 | 0.41 | 0.51 | 0.37 | 0.44 | 0.61 | 0.30 | 0.46 | 0.39 | 0.42 | 0.64 | 0.44 | 0.45 | 0.40 | 0.43 | 0.53 | 0.61 | 0.42 | 0.33 | 0.36 | 0.28 | 0.51 | 0.72 | 0.53 | 0.29 |
| 88 | 051893 | 1800 | 4 | 0.00 | 0.00 | 0.03 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.05 |
| 89 | 052193 | 1500 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 052293 | 1400 | 18 | 1.00 | 0.88 | 0.77 | 0.52 | 0.62 | 0.38 | 0.46 | 0.28 | 0.41 | 0.34 | 0.42 | 0.30 | 0.43 | 0.35 | 0.36 | 0.37 | 0.30 | 0.11 | 0.14 | 0.10 | 0.15 | 0.21 | 0.13 | 0.13 | 0.00 |
| 91 | 052393 | 1400 | 15 | 0.47 | 0.43 | 0.21 | 0.32 | 0.11 | 0.13 | 0.14 | 0.07 | 0.10 | 0.07 | 0.12 | 0.06 | 0.04 | 0.05 | 0.05 | 0.10 | 0.05 | 0.12 | 0.06 | 0.10 | 0.15 | 0.08 | 0.00 | 0.10 | 0.14 |
| 92 | 052893 | 2000 | 17 | 0.67 | 0.63 | 0.71 | 2.09 | 1.33 | 0.93 | 0.70 | 0.50 | 0.60 | 0.43 | 0.48 | 0.75 | 0.14 | 0.28 | 0.29 | 0.26 | 0.26 | 0.03 | 0.06 | 0.08 | 0.04 | 0.10 | 0.15 | 0.00 | 0.00 |
| 93 | 053093 | 0800 | 16 | 0.23 | 0.20 | 0.14 | 0.35 | 0.07 | 0.11 | 0.07 | 0.33 | 0.30 | 0.07 | 0.24 | 0.11 | 0.67 | 0.57 | 0.52 | 0.16 | 0.20 | 0.23 | 0.22 | 0.57 | 0.46 | 0.49 | 0.29 | 0.00 | 0.04 |
| 94 | 060193 | 2200 | 13 | 0.66 | 0.66 | 0.68 | 0.56 | 0.55 | 0.50 | 0.56 | 0.31 | 0.35 | 0.50 | 0.62 | 0.53 | 0.27 | 0.19 | 0.30 | 0.37 | 0.45 | 0.31 | 0.30 | 0.32 | 0.21 | 0.23 | 0.25 | 0.22 | 0.27 |
| 95 | 060393 | 2300 | 19 | 0.97 | 0.84 | 1.05 | 0.97 | 1.39 | 1.12 | 0.95 | 1.20 | 1.17 | 1.14 | 1.08 | 1.18 | 1.15 | 1.17 | 1.11 | 0.95 | 1.09 | 1.31 | 0.99 | 0.78 | 0.62 | 0.87 | 1.27 | 0.91 | 0.96 |
| 96 | 060793 | 2300 | 13 | 0.29 | 0.12 | 0.82 | 0.21 | 0.14 | 0.16 | 0.67 | 0.29 | 0.11 | 0.26 | 0.56 | 0.42 | 0.10 | 0.10 | 0.60 | 0.29 | 0.56 | 0.17 | 0.22 | 0.40 | 0.35 | 0.46 | 0.15 | 0.00 | 0.18 |
| 97 | 060893 | 1600 | 4 | 0.11 | 0.12 | 0.21 | 0.07 | 0.12 | 0.19 | 0.29 | 0.05 | 0.13 | 0.17 | 0.25 | 0.33 | 0.09 | 0.15 | 0.18 | 0.24 | 0.31 | 0.11 | 0.13 | 0.00 | 0.23 | 0.25 | 0.31 | 0.13 | 0.08 |
| 98 | 061593 | 0300 | 4 | 0.00 | 0.00 | 0.15 | 0.12 | 0.06 | 0.11 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 061793 | 2100 | 12 | 0.44 | 0.52 | 0.35 | 0.13 | 0.13 | 0.30 | 0.30 | 0.15 | 0.12 | 0.38 | 0.28 | 0.20 | 0.13 | 0.20 | 0.38 | 0.16 | 0.19 | 0.18 | 0.25 | 0.53 | 0.24 | 0.23 | 0.23 | 0.21 | 0.21 |
| 100 | 061893 | 1500 | 18 | 0.26 | 0.50 | 0.45 | 0.05 | 0.36 | 0.14 | 0.26 | 0.06 | 0.01 | 0.04 | 0.00 | 0.00 | 0.46 | 0.08 | 0.17 | 0.00 | 0.00 | 0.41 | 0.05 | 0.27 | 0.11 | 0.12 | 0.00 | 0.68 | 0.19 |
| 101 | 061993 | 1400 | 9 | 0.56 | 0.35 | 0.18 | 0.39 | 0.29 | 0.26 | 0.61 | 0.41 | 0.28 | 0.60 | 0.43 | 0.41 | 0.67 | 0.90 | 0.82 | 0.40 | 0.41 | 1.01 | 1.19 | 0.39 | 0.37 | 0.16 | 0.20 | 0.30 | 0.44 |
| 102 | 062493 | 2100 | 13 | 1.02 | 0.85 | 0.87 | 1.50 | 1.39 | 1.04 | 0.88 | 2.05 | 1.59 | 1.36 | 1.18 | 1.03 | 2.09 | 1.52 | 1.71 | 0.96 | 1.05 | 1.79 | 1.98 | 1.60 | 1.32 | 0.76 | 1.19 | 1.58 | 1.22 |
| 103 | 062893 | 0700 | 9 | 0.10 | 0.07 | 0.10 | 0.34 | 0.27 | 0.16 | 0.14 | 1.57 | 1.19 | 0.84 | 0.40 | 0.43 | 0.33 | 0.77 | 0.86 | 0.94 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.33 | 0.00 | 0.00 |
| 104 | 062893 | 2400 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.87 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 |
| 105 | 063093 | 0100 | 8 | 1.11 | 1.09 | 1.17 | 1.68 | 1.34 | 0.92 | 0.99 | 2.06 | 1.86 | 1.94 | 1.82 | 1.48 | 1.49 | 1.36 | 1.75 | 3.29 | 2.24 | 1.27 | 1.50 | 1.66 | 1.22 | 1.04 | 1.30 | 1.23 | 1.18 |
| 106 | 063093 | 2300 | 14 | 0.57 | 0.52 | 1.30 | 0.69 | 0.60 | 0.73 | 0.90 | 0.83 | 1.00 | 1.03 | 0.73 | 1.06 | 1.25 | 1.37 | 1.69 | 1.21 | 1.29 | 1.11 | 1.38 | 1.50 | 1.47 | 2.17 | 1.87 | 3.03 | 2.07 |
| 107 | 070293 | 1000 | 10 | 0.12 | 0.19 | 0.52 | 0.07 | 0.08 | 0.04 | 0.43 | 0.00 | 0.00 | 0.24 | 0.22 | 0.36 | 0.03 | 0.09 | 0.27 | 0.47 | 0.59 | 0.11 | 0.00 | 0.19 | 0.41 | 0.35 | 0.33 | 0.00 | 0.09 |
| 108 | 070593 | 1900 | 6 | 0.76 | 0.75 | 0.76 | 0.91 | 0.86 | 0.46 | 0.13 | 0.56 | 0.27 | 0.15 | 0.08 | 0.05 | 0.15 | 0.05 | 0.06 | 0.12 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 070793 | 0700 | 11 | 0.57 | 0.43 | 0.35 | 0.70 | 0.41 | 0.22 | 0.33 | 0.50 | 0.39 | 0.38 | 0.28 | 0.16 | 0.49 | 0.62 | 0.41 | 0.49 | 0.21 | 0.51 | 0.66 | 0.62 | 0.39 | 0.39 | 0.43 | 0.52 | 0.61 |
| 110 | 070793 | 2100 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 070993 | 2000 | 13 | 0.63 | 0.60 | 0.44 | 0.64 | 0.55 | 0.35 | 0.34 | 0.54 | 0.49 | 0.36 | 0.34 | 0.37 | 0.30 | 0.42 | 0.38 | 0.41 | 0.27 | 0.35 | 0.48 | 0.44 | 0.36 | 0.28 | 0.46 | 0.54 | 0.48 |
| 112 | 071093 | 1700 | 9 | 1.21 | 1.01 | 0.56 | 0.76 | 0.75 | 0.77 | 0.99 | 0.64 | 1.54 | 2.19 | 2.57 | 1.62 | 1.30 | 1.44 | 1.53 | 1.75 | 1.97 | 0.56 | 0.52 | 0.63 | 0.68 | 0.32 | 0.75 | 0.00 | 0.12 |
| 113 | 07 1193 | 0700 | 4 | 0.08 | 0.08 | 0.07 | 0.08 | 0.05 | 0.10 | 0.03 | 0.08 | 0.07 | 0.04 | 0.00 | 0.00 | 0.13 | 0.06 | 0.06 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 114 | 07 1293 | 0700 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 |
| 115 | 071393 | 1400 | 7 | 1.09 | 1.55 | 1.06 | 1.33 | 1.31 | 0.68 | 1.80 | 1.41 | 0.45 | 0.33 | 0.71 | 2.22 | 0.22 | 0.11 | 0.32 | 1.67 | 1.30 | 0.21 | 0.14 | 0.16 | 0.42 | 0.57 | 0.74 | 0.19 | 0.30 |
| 116 | 071593 | 0500 | 12 | 0.08 | 0.00 | 0.09 | 0.11 | 0.18 | 0.18 | 0.17 | 0.25 | 0.28 | 0.30 | 0.24 | 0.19 | 0.34 | 0.29 | 0.24 | 0.24 | 0.25 | 0.31 | 0.26 | 0.20 | 0.20 | 0.39 | 0.28 | 0.79 | 0.91 |
| 117 | 071593 | 2100 | 12 | 0.10 | 0.08 | 0.07 | 0.16 | 0.12 | 0.09 | 0.10 | 0.23 | 0.21 | 0.16 | 0.09 | 0.12 | 0.42 | 0.12 | 0.02 | 0.00 | 0.10 | 0.82 | 0.12 | 0.13 | 0.11 | 0.10 | 0.02 | 0.42 | 0.70 |
| 118 | 071693 | 1900 | 14 | 1.09 | 1.14 | 0.96 | 0.52 | 0.27 | 0.77 | 3.07 | 0.09 | 0.06 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.10 | 0.16 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.11 | 0.08 |
| 119 | 071893 | 1500 | 6 | 0.61 | 0.52 | 1.56 | 0.71 | 1.10 | 1.27 | 0.97 | 0.53 | 0.34 | 1.26 | 1.58 | 0.87 | 0.62 | 1.48 | 1.14 | 0.87 | 0.48 | 0.36 | 1.28 | 1.13 | 0.69 | 0.71 | 0.30 | 1.00 | 0.95 |
| 120 | 072093 | 1600 | 16 | 0.39 | 0.42 | 0.41 | 0.44 | 0.70 | 0.66 | 0.60 | 0.29 | 0.36 | 0.29 | 0.37 | 0.32 | 0.40 | 0.29 | 0.31 | 0.27 | 0.11 | 0.55 | 0.29 | 0.14 | 0.43 | 0.09 | 0.12 | 0.66 | 0.29 |
| 121 | 072293 | 0500 | 10 | 0.60 | 0.43 | 0.45 | 0.69 | 0.74 | 0.78 | 0.39 | 0.68 | 0.84 | 0.78 | 0.55 | 0.51 | 0.89 | 0.83 | 0.68 | 0.57 | 0.54 | 1.29 | 0.73 | 0.67 | 0.63 | 0.64 | 0.50 | 1.14 | 0.96 |
| 122 | 072393 | 0400 | 14 | 1.95 | 2.37 | 2.62 | 1.81 | 1.66 | 1.72 | 1.13 | 1.30 | 1.03 | 0.85 | 0.87 | 0.81 | 1.53 | 1.03 | 0.94 | 0.82 | 1.04 | 3.37 | 2.67 | 1.35 | 0.89 | 0.66 | 0.70 | 1.82 | 2.19 |
| 123 | 072493 | 0400 | 6 | 1.00 | 1.13 | 1.02 | 1.19 | 0.92 | 0.77 | 0.78 | 1.03 | 1.18 | 0.75 | 0.55 | 0.58 | 1.79 | 0.93 | 0.63 | 0.45 | 0.37 | 1.64 | 1.73 | 1.51 | 1.16 | 0.72 | 0.24 | 1.96 | 2.12 |
| 124 | 072493 | 1300 | 6 | 0.05 | 0.10 | 0.11 | 0.19 | 0.08 | 0.09 | 0.15 | 0.07 | 0.08 | 0.04 | 0.15 | 0.25 | 0.13 | 0.06 | 0.40 | 0.47 | 0.57 | 0.18 | 0.21 | 0.36 | 0.68 | 0.77 | 0.50 | 0.51 | 0.45 |
| 125 | 072593 | 0400 | 5 | 0.00 | 0.06 | 0.00 | 0.05 | 0.05 | 0.03 | 0.08 | 0.05 | 0.00 | 0.05 | 0.07 | 0.07 | 0.13 | 0.08 | 0.05 | 0.08 | 0.07 | 0.00 | 0.07 | 0.08 | 0.06 | 0.05 | 0.08 | 0.08 | 0.12 |
| 126 | 072893 | 0500 | 6 | 0.06 | 0.07 | 0.08 | 0.00 | 0.09 | 0.05 | 0.09 | 0.19 | 0.31 | 0.21 | 0.39 | 0.54 | 0.32 | 0.51 | 0.07 | 0.11 | 0.09 | 0.08 | 0.00 | 0.01 | 0.06 | 0.00 | 0.00 | 0.09 | 0.04 |
| 127 | 073193 | 1400 | 11 | 0.36 | 0.31 | 0.22 | 0.87 | 0.69 | 0.27 | 0.34 | 0.93 | 2.08 | 0.10 | 0.55 | 0.24 | 1.01 | 1.85 | 1.43 | 0.86 | 0.32 | 0.80 | 1.41 | 1.58 | 1.71 | 1.51 | 0.88 | 0.62 | 0.81 |
| 128 | 080193 | 0500 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| <i>Strm #</i> | <i>Date</i> | <i>Hour</i> | <i>Duration*</i> | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> | <i>6</i> | <i>7</i> | <i>8</i> | <i>9</i> | <i>10</i> | <i>11</i> | <i>12</i> | <i>13</i> | <i>14</i> | <i>15</i> | <i>16</i> | <i>17</i> | <i>18</i> | <i>19</i> | <i>20</i> | <i>21</i> | <i>22</i> | <i>23</i> | <i>24</i> | <i>25</i> |
|---------------|-------------|-------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 129 | 080193 | 1800 | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.31 | 0.17 | 0.08 | 0.05 | 0.30 | 0.00 | 0.06 | 0.68 | 0.19 | 0.00 | 0.04 | 0.00 | 0.00 |
| 130 | 080393 | 1300 | 6 | 0.30 | 0.19 | 1.04 | 0.53 | 0.42 | 0.29 | 0.47 | 0.05 | 0.20 | 1.06 | 0.17 | 0.14 | 0.03 | 0.04 | 0.03 | 0.00 | 0.08 | 0.07 | 0.12 | 0.28 | 0.40 | 0.35 | 0.36 | 0.06 | 0.04 |
| 131 | 080593 | 2400 | 6 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 080993 | 1700 | 3 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 133 | 081093 | 0100 | 7 | 0.97 | 1.30 | 0.77 | 0.62 | 0.95 | 0.78 | 0.75 | 0.56 | 0.62 | 0.68 | 0.81 | 0.81 | 0.81 | 0.71 | 1.17 | 0.76 | 0.87 | 1.11 | 1.29 | 1.16 | 0.92 | 0.58 | 0.68 | 1.34 | 1.42 |
| 134 | 081193 | 2100 | 20 | 0.48 | 0.45 | 1.38 | 0.46 | 0.54 | 0.62 | 0.59 | 0.61 | 0.73 | 0.59 | 0.70 | 1.39 | 0.67 | 0.58 | 0.71 | 1.33 | 1.23 | 0.46 | 0.58 | 0.52 | 0.79 | 0.82 | 1.02 | 0.52 | 0.51 |
| 135 | 081593 | 2200 | 6 | 1.34 | 1.26 | 1.52 | 1.19 | 0.82 | 0.50 | 1.50 | 1.16 | 1.27 | 0.45 | 0.16 | 0.72 | 0.87 | 0.83 | 0.21 | 0.07 | 0.37 | 0.16 | 0.11 | 0.26 | 0.04 | 0.00 | 0.05 | 0.10 | 0.10 |
| 136 | 081693 | 1500 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 081793 | 1700 | 3 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.08 | 0.10 | 0.00 | 0.00 | 0.00 |
| 138 | 081893 | 0800 | 5 | 0.25 | 0.07 | 0.00 | 0.31 | 0.37 | 0.10 | 0.08 | 0.74 | 0.66 | 0.45 | 0.17 | 0.05 | 0.36 | 0.96 | 0.44 | 0.39 | 0.06 | 0.07 | 0.34 | 0.85 | 0.77 | 1.06 | 0.06 | 0.00 | 0.00 |
| 139 | 081893 | 2100 | 2 | 0.04 | 0.02 | 0.04 | 0.05 | 0.03 | 0.07 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 081993 | 1200 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 |
| 141 | 081993 | 1700 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.06 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 082293 | 0800 | 6 | 0.14 | 0.30 | 0.08 | 0.10 | 0.06 | 0.04 | 0.08 | 0.00 | 0.03 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.07 | 0.21 | 0.16 | 0.04 | 0.06 | 0.00 | 0.05 | 0.00 | 0.30 | 0.00 | 0.00 |
| 143 | 082393 | 1600 | 7 | 1.70 | 1.77 | 2.17 | 1.29 | 1.79 | 1.58 | 1.83 | 1.18 | 1.80 | 2.30 | 2.22 | 1.76 | 2.00 | 2.11 | 2.34 | 1.58 | 1.47 | 1.97 | 1.06 | 2.00 | 1.30 | 0.98 | 0.67 | 1.25 | 0.56 |
| 144 | 082593 | 0500 | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.34 | 0.16 | 0.00 | 0.08 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.08 |
| 145 | 082893 | 0500 | 2 | 0.11 | 0.09 | 0.04 | 0.00 | 0.15 | 0.04 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 082893 | 1700 | 5 | 0.00 | 0.00 | 0.15 | 0.17 | 0.00 | 0.04 | 0.06 | 0.11 | 0.00 | 0.08 | 0.22 | 0.12 | 0.07 | 0.04 | 0.11 | 0.32 | 0.17 | 0.12 | 0.17 | 0.10 | 0.25 | 0.34 | 0.25 | 0.16 | 0.21 |
| 147 | 083093 | 1400 | 2 | 0.00 | 0.04 | 0.54 | 0.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 083093 | 2000 | 16 | 0.48 | 0.57 | 0.95 | 0.31 | 0.57 | 0.64 | 1.88 | 0.53 | 0.70 | 1.08 | 1.17 | 1.63 | 1.08 | 0.92 | 1.11 | 0.99 | 1.01 | 1.49 | 1.26 | 1.15 | 1.24 | 1.29 | 0.84 | 1.68 | 1.49 |
| 149 | 090293 | 0200 | 29 | 3.03 | 2.90 | 3.15 | 3.01 | 2.85 | 3.04 | 2.84 | 3.26 | 3.39 | 3.01 | 3.86 | 3.71 | 3.54 | 3.80 | 4.41 | 3.51 | 3.25 | 3.94 | 3.68 | 3.42 | 3.11 | 3.48 | 3.59 | 4.47 | 4.79 |
| 150 | 090593 | 2200 | 15 | 1.57 | 1.54 | 1.99 | 1.21 | 1.23 | 1.70 | 1.83 | 0.98 | 1.26 | 1.25 | 0.92 | 1.32 | 0.86 | 0.76 | 0.98 | 0.69 | 0.96 | 0.64 | 0.77 | 0.76 | 0.71 | 0.68 | 0.71 | 0.67 | 0.66 |
| 151 | 090793 | 2400 | 6 | 0.06 | 0.05 | 0.00 | 0.07 | 0.06 | 0.07 | 0.05 | 0.06 | 0.10 | 0.07 | 0.08 | 0.10 | 0.13 | 0.11 | 0.15 | 0.09 | 0.13 | 0.14 | 0.12 | 0.15 | 0.10 | 0.10 | 0.09 | 0.12 | 0.14 |
| 152 | 091293 | 0300 | 6 | 0.03 | 0.07 | 0.18 | 0.06 | 0.05 | 0.07 | 0.15 | 0.06 | 0.12 | 0.20 | 0.37 | 0.17 | 0.12 | 0.04 | 0.21 | 0.15 | 0.19 | 0.28 | 0.36 | 0.35 | 0.35 | 0.31 | 0.32 | 0.21 | 0.15 |
| 153 | 091393 | 0600 | 36 | 3.69 | 4.78 | 5.47 | 3.86 | 4.01 | 5.82 | 5.14 | 3.57 | 5.10 | 6.21 | 5.63 | 5.45 | 6.44 | 6.61 | 6.02 | 4.92 | 5.38 | 6.36 | 6.86 | 5.25 | 5.17 | 5.05 | 4.14 | 6.81 | 6.38 |
| 154 | 092293 | 0700 | 14 | 0.18 | 0.22 | 0.11 | 0.30 | 0.26 | 0.23 | 0.27 | 0.33 | 0.39 | 0.41 | 0.41 | 0.34 | 0.42 | 0.40 | 0.38 | 0.33 | 0.40 | 0.44 | 0.42 | 0.49 | 0.36 | 0.49 | 0.60 | 0.63 | 0.66 |
| 155 | 092593 | 0600 | 13 | 0.95 | 1.16 | 0.95 | 0.85 | 1.20 | 1.13 | 1.06 | 0.81 | 0.75 | 1.08 | 1.27 | 1.18 | 0.61 | 0.76 | 0.99 | 1.07 | 1.16 | 0.87 | 0.74 | 0.87 | 0.86 | 1.05 | 1.15 | 0.81 | 0.94 |
| 156 | 092693 | 1600 | 4 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.03 | 0.00 | 0.06 | 0.07 | 0.00 | 0.08 |
| 157 | 100893 | 1400 | 17 | 0.85 | 1.35 | 1.01 | 0.99 | 0.89 | 0.81 | 0.79 | 0.84 | 0.62 | 0.56 | 0.81 | 0.69 | 0.63 | 0.69 | 0.94 | 0.78 | 0.77 | 1.06 | 1.22 | 1.15 | 1.15 | 1.11 | 1.38 | 0.51 | 0.35 |
| 158 | 101593 | 1600 | 31 | 2.09 | 2.33 | 1.89 | 1.96 | 1.98 | 1.82 | 1.94 | 1.93 | 1.91 | 1.56 | 1.52 | 2.11 | 1.82 | 1.56 | 2.26 | 1.66 | 1.98 | 1.35 | 1.74 | 1.75 | 1.33 | 1.29 | 1.30 | 1.12 | 1.21 |
| 159 | 101893 | 1400 | 10 | 0.09 | 0.08 | 0.03 | 0.10 | 0.04 | 0.00 | 0.02 | 0.06 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.05 | 0.05 | 0.10 | 0.04 | 0.00 | 0.00 | 0.00 |
| 160 | 102093 | 0900 | 14 | 0.28 | 0.26 | 0.34 | 0.22 | 0.26 | 0.29 | 0.40 | 0.29 | 0.18 | 0.34 | 0.36 | 0.44 | 0.22 | 0.29 | 0.40 | 0.43 | 0.47 | 0.22 | 0.31 | 0.38 | 0.45 | 0.41 | 0.37 | 0.19 | 0.22 |
| 161 | 110293 | 1600 | 8 | 0.06 | 0.00 | 0.12 | 0.00 | 0.05 | 0.08 | 0.08 | 0.00 | 0.00 | 0.07 | 0.07 | 0.09 | 0.06 | 0.06 | 0.11 | 0.08 | 0.10 | 0.00 | 0.00 | 0.10 | 0.06 | 0.13 | 0.10 | 0.00 | 0.05 |
| 162 | 111293 | 1400 | 8 | 0.45 | 0.49 | 0.37 | 0.42 | 0.36 | 0.44 | 0.23 | 0.41 | 0.42 | 0.40 | 0.30 | 0.28 | 0.36 | 0.32 | 0.34 | 0.21 | 0.25 | 0.32 | 0.33 | 0.24 | 0.25 | 0.32 | 0.42 | 0.41 | 0.37 |
| 163 | 111393 | 2000 | 20 | 0.51 | 0.61 | 0.59 | 0.66 | 0.57 | 0.59 | 0.65 | 0.61 | 0.73 | 0.60 | 0.70 | 0.83 | 0.77 | 0.69 | 0.74 | 0.84 | 0.93 | 0.71 | 0.89 | 0.75 | 0.89 | 0.89 | 0.93 | 0.91 | 0.86 |
| 164 | 111693 | 2000 | 16 | 0.47 | 0.52 | 0.69 | 0.54 | 0.51 | 0.63 | 0.68 | 0.67 | 0.69 | 0.72 | 0.58 | 0.70 | 0.70 | 0.83 | 0.67 | 0.63 | 0.73 | 0.77 | 0.91 | 0.77 | 0.80 | 0.89 | 0.74 | 0.91 | 0.69 |
| 165 | 112493 | 0100 | 11 | 0.16 | 0.15 | 0.11 | 0.17 | 0.10 | 0.09 | 0.10 | 0.13 | 0.10 | 0.10 | 0.08 | 0.16 | 0.11 | 0.08 | 0.09 | 0.08 | 0.11 | 0.11 | 0.13 | 0.05 | 0.06 | 0.09 | 0.08 | 0.12 | 0.09 |
| 166 | 112493 | 1700 | 45 | 0.58 | 0.71 | 0.59 | 0.52 | 0.61 | 0.64 | 0.55 | 0.55 | 0.48 | 0.55 | 0.55 | 0.42 | 0.60 | 0.52 | 0.43 | 0.66 | 0.70 | 0.66 | 0.61 | 0.57 | 0.62 | 0.58 | 0.63 | 0.74 | 0.68 |
| 167 | 112793 | 1000 | 4 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.08 | 0.05 | 0.04 | 0.01 | 0.06 | 0.10 | 0.00 | 0.03 | 0.00 | 0.00 | 0.06 | 0.07 | 0.04 | 0.00 | 0.00 |
| 168 | 112793 | 2000 | 11 | 0.07 | 0.06 | 0.09 | 0.09 | 0.08 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 120193 | 1900 | 15 | 0.34 | 0.39 | 0.25 | 0.28 | 0.23 | 0.19 | 0.28 | 0.23 | 0.27 | 0.26 | 0.28 | 0.26 | 0.24 | 0.28 | 0.23 | 0.25 | 0.34 | 0.23 | 0.33 | 0.28 | 0.22 | 0.33 | 0.48 | 0.27 | 0.32 |
| 170 | 120393 | 1300 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| Strm # | Date | Hour | Duration* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|--------|--------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 171 | 120393 | 2000 | 10 | 0.14 | 0.23 | 0.12 | 0.18 | 0.17 | 0.14 | 0.13 | 0.13 | 0.12 | 0.10 | 0.18 | 0.19 | 0.16 | 0.15 | 0.10 | 0.17 | 0.16 | 0.13 | 0.17 | 0.12 | 0.12 | 0.19 | 0.20 | 0.11 | 0.08 |
| 172 | 121393 | 0100 | 4 | 0.04 | 0.08 | 0.00 | 0.09 | 0.06 | 0.03 | 0.00 | 0.00 | 0.05 | 0.06 | 0.00 | 0.00 | 0.03 | 0.07 | 0.05 | 0.00 | 0.00 | 0.05 | 0.07 | 0.03 | 0.02 | 0.00 | 0.00 | 0.05 | 0.04 |
| 173 | 121393 | 0900 | 42 | 0.65 | 0.62 | 0.47 | 0.38 | 0.42 | 0.32 | 0.51 | 0.45 | 0.45 | 0.47 | 0.45 | 0.49 | 0.46 | 0.36 | 0.48 | 0.58 | 0.46 | 0.60 | 0.68 | 0.57 | 0.57 | 0.60 | 0.66 | 0.60 | 0.56 |
| 174 | 121793 | 2200 | 5 | 0.04 | 0.04 | 0.05 | 0.00 | 0.04 | 0.05 | 0.09 | 0.00 | 0.00 | 0.08 | 0.06 | 0.08 | 0.00 | 0.04 | 0.04 | 0.09 | 0.14 | 0.05 | 0.04 | 0.03 | 0.08 | 0.16 | 0.18 | 0.00 | 0.04 |
| 175 | 122493 | 1900 | 12 | 0.13 | 0.15 | 0.06 | 0.08 | 0.08 | 0.00 | 0.08 | 0.05 | 0.12 | 0.00 | 0.16 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.10 | 0.12 | 0.00 |
| 176 | 123093 | 2400 | 1 | 0.00 | 0.04 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 123193 | 2200 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 0.04 | 0.06 | 0.04 | 0.00 | 0.00 | 0.02 | 0.05 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 |
| 178 | 010294 | 2200 | 11 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.11 | 0.08 | 0.00 | 0.00 | 0.00 | 0.13 | 0.10 | 0.06 | 0.00 | 0.00 | 0.10 | 0.18 | 0.10 | 0.09 | 0.00 | 0.00 | 0.23 | 0.18 |
| 179 | 011094 | 1000 | 12 | 0.25 | 0.15 | 0.23 | 0.17 | 0.22 | 0.17 | 0.23 | 0.27 | 0.25 | 0.18 | 0.28 | 0.12 | 0.15 | 0.20 | 0.19 | 0.16 | 0.20 | 0.13 | 0.21 | 0.18 | 0.17 | 0.23 | 0.29 | 0.22 | 0.22 |
| 180 | 011394 | 1100 | 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.03 | 0.00 | 0.07 | 0.02 | 0.11 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 011694 | 1200 | 6 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.05 | 0.05 | 0.10 | 0.06 | 0.08 | 0.06 | 0.04 | 0.00 | 0.06 | 0.00 | 0.03 | 0.03 | 0.05 | 0.08 | 0.09 | 0.00 | 0.09 |
| 182 | 012594 | 0600 | 8 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.10 | 0.07 | 0.07 | 0.06 | 0.11 | 0.08 | 0.19 | 0.10 | 0.05 | 0.04 | 0.06 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 |
| 183 | 012594 | 1900 | 1 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 012694 | 2300 | 23 | 0.46 | 0.39 | 0.68 | 0.20 | 0.45 | 0.55 | 0.67 | 0.17 | 0.41 | 0.56 | 0.66 | 0.77 | 0.39 | 0.38 | 0.58 | 0.72 | 0.76 | 0.33 | 0.56 | 0.55 | 0.57 | 0.69 | 0.59 | 0.53 | 0.57 |
| 185 | 012994 | 1500 | 20 | 0.10 | 0.08 | 0.00 | 0.00 | 0.08 | 0.12 | 0.27 | 0.00 | 0.09 | 0.00 | 0.00 | 0.17 | 0.06 | 0.07 | 0.04 | 0.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.12 | 0.06 | 0.08 | 0.06 | 0.00 |
| 186 | 020794 | 2000 | 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.10 | 0.10 | 0.00 | 0.22 | 0.07 | 0.10 | 0.05 | 0.04 | 0.08 | 0.14 |
| 187 | 021294 | 1100 | 5 | 0.05 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 021994 | 0400 | 30 | 0.80 | 0.97 | 0.97 | 0.69 | 0.84 | 0.91 | 0.67 | 0.67 | 0.85 | 0.85 | 0.92 | 0.65 | 0.80 | 0.88 | 0.77 | 0.68 | 0.64 | 0.67 | 0.70 | 0.75 | 0.62 | 0.74 | 0.55 | 0.79 | 0.63 |
| 189 | 022294 | 1500 | 33 | 0.39 | 0.33 | 0.65 | 0.49 | 0.53 | 0.34 | 0.41 | 0.41 | 0.61 | 0.56 | 0.31 | 0.53 | 0.62 | 0.74 | 0.57 | 0.38 | 0.53 | 0.55 | 0.72 | 0.69 | 0.42 | 0.39 | 0.29 | 0.57 | 0.94 |
| 190 | 022494 | 1700 | 23 | 0.32 | 0.28 | 0.20 | 0.26 | 0.30 | 0.33 | 0.29 | 0.28 | 0.33 | 0.35 | 0.32 | 0.15 | 0.27 | 0.23 | 0.24 | 0.19 | 0.22 | 0.23 | 0.18 | 0.21 | 0.19 | 0.35 | 0.44 | 0.12 | 0.18 |
| 191 | 022894 | 2000 | 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.04 | 0.06 | 0.00 | 0.05 | 0.07 | 0.08 | 0.07 | 0.06 | 0.05 | 0.06 | 0.09 | 0.08 | 0.07 | 0.10 | 0.09 | 0.18 | 0.20 |
| 192 | 030694 | 2300 | 9 | 0.17 | 0.21 | 0.22 | 0.27 | 0.24 | 0.34 | 0.41 | 0.27 | 0.36 | 0.47 | 0.40 | 0.36 | 0.37 | 0.32 | 0.35 | 0.31 | 0.29 | 0.40 | 0.36 | 0.33 | 0.29 | 0.33 | 0.24 | 0.38 | 0.44 |
| 193 | 031294 | 2400 | 6 | 0.05 | 0.06 | 0.07 | 0.05 | 0.04 | 0.05 | 0.04 | 0.00 | 0.03 | 0.04 | 0.05 | 0.05 | 0.00 | 0.06 | 0.03 | 0.14 | 0.05 | 0.06 | 0.12 | 0.08 | 0.00 | 0.06 | 0.05 | 0.06 | 0.07 |
| 194 | 031394 | 1500 | 3 | 0.04 | 0.00 | 0.05 | 0.00 | 0.04 | 0.06 | 0.05 | 0.00 | 0.00 | 0.03 | 0.00 | 0.02 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.06 | 0.03 | 0.00 | 0.00 | 0.04 |
| 195 | 032194 | 0100 | 3 | 0.04 | 0.04 | 0.08 | 0.05 | 0.03 | 0.04 | 0.03 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 032394 | 1900 | 4 | 0.00 | 0.08 | 0.08 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 032694 | 0600 | 21 | 0.43 | 0.47 | 0.40 | 0.43 | 0.45 | 0.41 | 0.54 | 0.38 | 0.43 | 0.47 | 0.60 | 0.54 | 0.52 | 0.39 | 0.56 | 0.60 | 0.65 | 0.54 | 0.61 | 0.53 | 0.62 | 0.70 | 0.73 | 0.68 | 0.57 |
| 198 | 040294 | 1500 | 8 | 0.30 | 0.27 | 0.31 | 0.26 | 0.26 | 0.27 | 0.24 | 0.25 | 0.23 | 0.26 | 0.23 | 0.24 | 0.27 | 0.27 | 0.25 | 0.23 | 0.23 | 0.26 | 0.17 | 0.20 | 0.16 | 0.20 | 0.17 | 0.19 | 0.20 |
| 199 | 040594 | 1500 | 6 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.04 | 0.01 | 0.04 | 0.04 | 0.05 | 0.08 | 0.07 | 0.05 | 0.06 | 0.03 | 0.04 | 0.00 | 0.00 | 0.04 | 0.07 | 0.08 |
| 200 | 040994 | 1500 | 17 | 0.56 | 0.62 | 0.47 | 0.41 | 0.46 | 0.35 | 0.34 | 0.44 | 0.37 | 0.37 | 0.37 | 0.42 | 0.40 | 0.46 | 0.41 | 0.50 | 0.41 | 0.43 | 0.50 | 0.41 | 0.36 | 0.42 | 0.39 | 0.42 | 0.43 |
| 201 | 041094 | 2300 | 38 | 1.62 | 2.52 | 1.93 | 1.68 | 1.82 | 1.74 | 2.07 | 1.64 | 1.95 | 2.01 | 2.17 | 2.06 | 1.68 | 1.58 | 2.04 | 2.16 | 2.06 | 1.97 | 2.57 | 1.95 | 1.84 | 2.30 | 2.24 | 2.44 | 2.64 |
| 202 | 041294 | 2300 | 9 | 0.12 | 0.07 | 0.04 | 0.07 | 0.03 | 0.06 | 0.00 | 0.03 | 0.04 | 0.05 | 0.00 | 0.06 | 0.00 | 0.06 | 0.03 | 0.04 | 0.00 | 0.05 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 203 | 041594 | 0300 | 8 | 0.50 | 0.36 | 0.36 | 0.32 | 0.32 | 0.32 | 0.46 | 0.34 | 0.33 | 0.31 | 0.35 | 0.51 | 0.35 | 0.36 | 0.38 | 0.42 | 0.39 | 0.32 | 0.29 | 0.48 | 0.48 | 0.59 | 0.42 | 0.34 | 0.37 |
| 204 | 042094 | 1900 | 17 | 0.12 | 0.09 | 0.17 | 0.13 | 0.12 | 0.12 | 0.15 | 0.18 | 0.20 | 0.23 | 0.14 | 0.16 | 0.35 | 0.31 | 0.28 | 0.22 | 0.20 | 0.80 | 0.75 | 0.53 | 0.45 | 0.35 | 0.26 | 1.07 | 1.12 |
| 205 | 042594 | 1800 | 6 | 0.21 | 0.19 | 0.12 | 0.14 | 0.14 | 0.07 | 0.06 | 0.06 | 0.11 | 0.09 | 0.08 | 0.09 | 0.10 | 0.08 | 0.07 | 0.03 | 0.02 | 0.12 | 0.05 | 0.03 | 0.01 | 0.00 | 0.03 | 0.21 | 0.05 |
| 206 | 042694 | 0400 | 4 | 0.04 | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 042694 | 1800 | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.13 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.35 | 0.11 | 0.00 | 0.00 |
| 208 | 042794 | 1700 | 22 | 0.58 | 0.81 | 0.61 | 0.66 | 0.67 | 0.53 | 0.65 | 0.73 | 0.68 | 0.68 | 0.70 | 0.82 | 0.64 | 0.61 | 0.70 | 0.83 | 0.81 | 0.64 | 0.87 | 0.74 | 0.77 | 0.66 | 0.66 | 0.74 | 0.75 |
| 209 | 042994 | 1700 | 22 | 0.64 | 0.84 | 0.66 | 0.74 | 0.65 | 0.66 | 0.68 | 0.71 | 0.71 | 0.69 | 0.67 | 0.82 | 0.68 | 0.67 | 0.65 | 0.66 | 0.74 | 0.67 | 0.92 | 0.79 | 0.75 | 0.70 | 0.68 | 0.75 | 0.75 |
| 210 | 050594 | 1700 | 43 | 0.91 | 1.10 | 1.06 | 1.07 | 0.86 | 0.97 | 1.00 | 1.27 | 1.45 | 1.63 | 1.67 | 1.70 | 1.46 | 1.34 | 1.63 | 1.57 | 1.67 | 1.17 | 1.56 | 1.15 | 1.10 | 1.06 | 1.30 | 1.43 | 1.50 |
| 211 | 050994 | 1900 | 4 | 0.00 | 0.00 | 0.05 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 051194 | 1500 | 5 | 0.19 | 0.27 | 0.21 | 0.07 | 0.16 | 0.07 | 0.08 | 0.30 | 0.21 | 0.16 | 0.20 | 0.30 | 0.33 | 0.19 | 0.57 | 0.36 | 0.15 | 0.32 | 0.41 | 0.52 | 0.27 | 0.23 | 0.42 | 0.25 | 0.15 |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| <i>Strm #</i> | <i>Date</i> | <i>Hour</i> | <i>Duration*</i> | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> | <i>6</i> | <i>7</i> | <i>8</i> | <i>9</i> | <i>10</i> | <i>11</i> | <i>12</i> | <i>13</i> | <i>14</i> | <i>15</i> | <i>16</i> | <i>17</i> | <i>18</i> | <i>19</i> | <i>20</i> | <i>21</i> | <i>22</i> | <i>23</i> | <i>24</i> | <i>25</i> | |
|---------------|-------------|-------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| 213 | 051494 | 0400 | 17 | 0.36 | 0.80 | 0.45 | 0.41 | 0.46 | 0.38 | 0.50 | 0.42 | 0.40 | 0.50 | 0.47 | 0.39 | 0.35 | 0.27 | 0.45 | 0.38 | 0.46 | 0.31 | 0.55 | 0.32 | 0.33 | 0.43 | 0.45 | 0.35 | 0.40 | |
| 214 | 052494 | 1500 | 12 | 0.90 | 1.08 | 1.08 | 1.57 | 1.53 | 1.63 | 1.21 | 0.87 | 0.60 | 0.81 | 0.69 | 1.33 | 0.95 | 0.66 | 0.43 | 0.40 | 1.11 | 0.56 | 0.79 | 0.72 | 0.47 | 0.46 | 0.51 | 2.83 | 1.87 | |
| 215 | 052594 | 1800 | 7 | 0.03 | 0.06 | 0.11 | 0.07 | 0.09 | 0.06 | 0.11 | 0.03 | 0.06 | 0.09 | 0.15 | 0.16 | 0.10 | 0.11 | 0.14 | 0.15 | 0.17 | 0.10 | 0.13 | 0.08 | 0.12 | 0.15 | 0.14 | 0.07 | 0.06 | |
| 216 | 053194 | 1400 | 7 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 |
| 217 | 060194 | 1700 | 21 | 0.64 | 0.59 | 0.53 | 0.72 | 0.75 | 0.61 | 0.61 | 0.84 | 0.57 | 0.74 | 0.74 | 0.58 | 1.13 | 0.79 | 0.79 | 0.66 | 0.67 | 0.88 | 0.97 | 0.81 | 0.77 | 0.82 | 0.57 | 1.06 | 1.01 | |
| 218 | 060594 | 1100 | 7 | 0.05 | 0.00 | 0.06 | 0.06 | 0.06 | 0.02 | 0.02 | 0.24 | 0.15 | 0.47 | 0.11 | 0.03 | 0.12 | 0.15 | 0.26 | 0.10 | 0.16 | 0.19 | 0.26 | 0.27 | 0.28 | 0.32 | 0.25 | 0.11 | 0.21 | |
| 219 | 060594 | 2400 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | |
| 220 | 060794 | 1900 | 21 | 0.18 | 0.20 | 0.09 | 0.22 | 0.19 | 0.18 | 0.17 | 0.24 | 0.38 | 0.55 | 0.41 | 0.47 | 1.05 | 1.17 | 1.04 | 0.93 | 0.68 | 1.21 | 1.62 | 1.50 | 1.03 | 1.05 | 0.99 | 0.79 | 0.96 | |
| 221 | 061194 | 2400 | 3 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.06 | 0.17 | 0.16 | 0.16 | 0.15 | 0.03 | 0.17 | 0.06 | 0.10 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 222 | 061294 | 1100 | 8 | 0.08 | 0.09 | 0.39 | 0.18 | 0.15 | 0.31 | 0.28 | 0.23 | 0.42 | 0.70 | 0.36 | 0.70 | 0.43 | 1.16 | 0.76 | 0.74 | 0.47 | 0.17 | 0.44 | 0.80 | 0.88 | 0.49 | 0.44 | 0.60 | 0.41 | |
| 223 | 061494 | 1600 | 3 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 224 | 061694 | 1600 | 5 | 0.09 | 0.00 | 0.00 | 0.13 | 0.24 | 0.00 | 0.00 | 0.00 | 0.71 | 0.24 | 0.00 | 0.00 | 0.31 | 1.08 | 0.07 | 0.00 | 0.06 | 0.16 | 0.34 | 0.96 | 0.07 | 0.05 | 0.20 | 0.58 | 0.46 | |
| 225 | 062094 | 1500 | 7 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.04 | 0.00 | |
| 226 | 062394 | 0500 | 5 | 0.23 | 0.21 | 0.06 | 0.13 | 0.30 | 0.05 | 0.10 | 0.15 | 0.21 | 0.09 | 0.12 | 0.00 | 0.00 | 0.03 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 227 | 062394 | 1300 | 20 | 0.23 | 0.32 | 0.29 | 0.33 | 0.30 | 0.19 | 0.23 | 0.16 | 0.25 | 0.24 | 0.13 | 0.25 | 0.12 | 0.24 | 0.24 | 0.28 | 0.35 | 0.26 | 0.32 | 0.23 | 0.29 | 0.32 | 0.30 | 0.37 | 0.21 | |
| 228 | 062594 | 1900 | 6 | 0.00 | 0.00 | 0.04 | 0.09 | 0.08 | 0.06 | 0.04 | 0.07 | 0.05 | 0.05 | 0.05 | 0.04 | 0.22 | 0.29 | 0.52 | 0.11 | 0.09 | 0.10 | 0.11 | 0.10 | 0.00 | 0.00 | 0.12 | 0.12 | 0.13 | |
| 229 | 062694 | 0500 | 17 | 0.29 | 0.18 | 0.58 | 0.09 | 0.31 | 0.67 | 0.50 | 0.16 | 0.24 | 0.64 | 0.41 | 0.29 | 0.22 | 0.18 | 0.36 | 0.50 | 0.26 | 0.66 | 0.41 | 0.31 | 0.62 | 0.89 | 0.47 | 0.09 | 0.07 | |
| 230 | 070294 | 1100 | 11 | 0.58 | 0.65 | 0.39 | 0.76 | 0.59 | 0.54 | 0.71 | 0.72 | 0.66 | 1.14 | 0.86 | 0.95 | 1.02 | 1.57 | 1.06 | 1.09 | 0.77 | 1.76 | 1.99 | 1.38 | 0.89 | 0.79 | 1.32 | 1.66 | 1.70 | |
| 231 | 070494 | 0500 | 6 | 0.18 | 0.29 | 0.28 | 0.27 | 0.34 | 0.45 | 0.06 | 0.20 | 0.64 | 0.40 | 0.30 | 0.16 | 0.16 | 0.23 | 0.02 | 0.11 | 0.09 | 0.15 | 0.24 | 0.11 | 0.10 | 0.05 | 0.00 | 0.22 | 0.18 | |
| 232 | 070794 | 1500 | 7 | 0.06 | 0.26 | 0.23 | 0.00 | 0.00 | 0.32 | 0.00 | 0.27 | 0.16 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.34 | 0.07 | 0.00 | 0.00 | 0.06 | 0.00 | |
| 233 | 071694 | 1700 | 8 | 0.24 | 0.25 | 0.77 | 0.09 | 0.05 | 0.45 | 0.57 | 0.27 | 0.30 | 0.30 | 0.26 | 0.54 | 1.29 | 0.63 | 0.28 | 0.17 | 0.29 | 1.69 | 2.62 | 0.49 | 0.38 | 0.22 | 0.27 | 0.89 | 2.02 | |
| 234 | 071994 | 0400 | 7 | 1.85 | 1.61 | 0.61 | 1.36 | 2.02 | 2.21 | 1.15 | 0.00 | 0.04 | 2.06 | 2.58 | 2.19 | 0.14 | 0.11 | 0.28 | 1.59 | 2.78 | 0.05 | 0.09 | 0.08 | 0.05 | 0.57 | 1.86 | 0.03 | 0.04 | |
| 235 | 072094 | 0400 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 236 | 072094 | 1500 | 10 | 0.32 | 0.34 | 0.32 | 0.32 | 0.38 | 0.46 | 0.85 | 0.32 | 0.44 | 0.48 | 0.28 | 0.37 | 0.80 | 0.55 | 0.61 | 0.52 | 0.36 | 0.58 | 0.48 | 0.56 | 0.56 | 0.38 | 0.31 | 0.66 | 0.28 | |
| 237 | 072194 | 2200 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.09 | 0.08 | 0.06 | 0.08 | 0.09 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 238 | 072494 | 1500 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 239 | 080194 | 1300 | 11 | 0.37 | 0.28 | 0.00 | 0.24 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.45 | 0.04 | 0.00 | 0.00 | 0.06 | 0.04 | 0.00 | 0.00 | 0.02 | 0.13 | 0.20 | 0.20 | 0.14 | 0.00 | 0.77 | 0.04 | |
| 240 | 080394 | 1500 | 19 | 0.58 | 0.59 | 0.67 | 0.60 | 0.70 | 0.69 | 0.69 | 0.87 | 1.02 | 0.86 | 1.02 | 0.83 | 1.54 | 1.33 | 0.80 | 0.77 | 0.95 | 1.75 | 1.27 | 0.73 | 0.69 | 0.82 | 0.33 | 1.32 | 1.27 | |
| 241 | 080494 | 1500 | 7 | 0.13 | 0.08 | 0.49 | 0.28 | 0.25 | 0.15 | 0.24 | 0.08 | 0.22 | 0.38 | 0.22 | 0.10 | 0.16 | 0.13 | 0.15 | 0.22 | 0.12 | 0.15 | 0.25 | 0.08 | 0.08 | 0.10 | 0.13 | 0.05 | 0.00 | |
| 242 | 081394 | 1500 | 4 | 0.00 | 0.00 | 0.77 | 0.19 | 0.59 | 0.77 | 0.66 | 0.00 | 0.06 | 0.20 | 0.43 | 0.42 | 0.43 | 0.33 | 0.48 | 0.24 | 0.25 | 0.79 | 0.75 | 0.60 | 0.51 | 0.51 | 0.41 | 0.24 | 0.35 | |
| 243 | 081694 | 1600 | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 244 | 081994 | 2100 | 9 | 0.05 | 0.07 | 0.06 | 0.22 | 0.23 | 0.13 | 0.23 | 0.00 | 0.00 | 0.12 | 0.06 | 0.08 | 0.14 | 0.16 | 0.11 | 0.10 | 0.03 | 0.27 | 0.22 | 0.25 | 0.20 | 0.30 | 0.33 | 0.24 | 0.12 | |
| 245 | 082694 | 0800 | 5 | 0.50 | 0.17 | 0.32 | 0.68 | 0.46 | 0.35 | 0.35 | 0.07 | 0.08 | 0.36 | 0.27 | 0.79 | 0.05 | 0.04 | 0.32 | 1.01 | 0.66 | 0.76 | 0.79 | 0.72 | 0.39 | 0.79 | 0.81 | 0.21 | 0.24 | |
| 246 | 082894 | 1200 | 7 | 0.13 | 0.16 | 0.22 | 0.30 | 0.20 | 0.20 | 0.17 | 0.21 | 0.22 | 0.28 | 0.24 | 0.22 | 0.12 | 0.13 | 0.14 | 0.18 | 0.27 | 0.10 | 0.10 | 0.12 | 0.06 | 0.12 | 0.21 | 0.17 | 0.19 | |
| 247 | 082994 | 1800 | 3 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | |
| 248 | 082994 | 2400 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 249 | 083094 | 0600 | 8 | 1.07 | 1.29 | 0.94 | 1.08 | 1.10 | 1.16 | 1.08 | 1.09 | 1.24 | 1.23 | 1.27 | 1.12 | 1.30 | 1.28 | 1.21 | 1.27 | 1.11 | 1.31 | 1.53 | 1.38 | 1.24 | 1.24 | 1.14 | 1.73 | 1.83 | |
| 250 | 083094 | 2300 | 2 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.13 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 251 | 090494 | 1200 | 14 | 0.22 | 0.28 | 0.23 | 0.23 | 0.34 | 0.25 | 0.20 | 0.23 | 0.28 | 0.30 | 0.26 | 0.20 | 0.56 | 0.26 | 0.50 | 0.35 | 0.37 | 0.24 | 0.36 | 0.40 | 0.47 | 0.42 | 0.45 | 0.12 | 0.13 | |
| 252 | 092194 | 2100 | 11 | 0.28 | 0.34 | 0.24 | 0.25 | 0.33 | 0.31 | 0.27 | 0.24 | 0.28 | 0.34 | 0.28 | 0.29 | 0.27 | 0.21 | 0.26 | 0.26 | 0.14 | 0.25 | 0.16 | 0.20 | 0.28 | 0.28 | 0.25 | 0.30 | 0.18 | |
| 253 | 092294 | 1200 | 17 | 0.47 | 0.74 | 0.86 | 0.45 | 0.40 | 0.74 | 0.84 | 0.35 | 0.47 | 0.62 | 0.65 | 0.82 | 0.44 | 0.48 | 0.61 | 0.58 | 0.79 | 0.31 | 0.39 | 0.47 | 0.59 | 0.65 | 0.72 | 0.21 | 0.26 | |
| 254 | 092594 | 0500 | 7 | 0.07 | 0.05 | 0.00 | 0.08 | 0.02 | 0.05 | 0.00 | 0.00 | 0.04 | 0.00 | 0.05 | 0.00 | 0.11 | 0.06 | 0.13 | 0.04 | 0.00 | 0.17 | 0.15 | 0.12 | 0.06 | 0.00 | 0.00 | 0.17 | 0.18 | |
| 255 | 092594 | 1500 | 7 | 0.00 | 0.00 | 0.26 | 0.00 | 0.00 | 0.09 | 1.01 | 0.12 | 0.14 | 0.03 | 0.37 | 0.89 | 0.16 | 0.06 | 0.00 | 0.56 | 0.30 | 0.00 | 0.07 | 0.00 | 0.00 | 0.77 | 0.07 | 0.00 | 0.00 | |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| <i>Strm#</i> | <i>Date</i> | <i>Hour</i> | <i>Duration*</i> | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> | <i>6</i> | <i>7</i> | <i>8</i> | <i>9</i> | <i>10</i> | <i>11</i> | <i>12</i> | <i>13</i> | <i>14</i> | <i>15</i> | <i>16</i> | <i>17</i> | <i>18</i> | <i>19</i> | <i>20</i> | <i>21</i> | <i>22</i> | <i>23</i> | <i>24</i> | <i>25</i> | |
|--------------|-------------|-------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| 256 | 092694 | 0300 | 7 | 0.36 | 0.31 | 0.08 | 0.16 | 0.22 | 0.27 | 0.27 | 0.04 | 0.00 | 0.08 | 0.13 | 0.31 | 0.00 | 0.04 | 0.00 | 0.14 | 0.18 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.07 |
| 257 | 100694 | 0300 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |
| 258 | 100794 | 0800 | 34 | 1.51 | 1.59 | 1.13 | 1.73 | 1.51 | 1.53 | 1.36 | 1.57 | 1.80 | 1.80 | 1.45 | 1.29 | 2.14 | 2.12 | 2.01 | 1.32 | 1.21 | 2.33 | 2.48 | 2.01 | 1.42 | 1.38 | 1.35 | 2.55 | 2.23 | |
| 259 | 101894 | 1300 | 10 | 0.09 | 0.09 | 0.11 | 0.11 | 0.10 | 0.10 | 0.11 | 0.16 | 0.06 | 0.18 | 0.15 | 0.13 | 0.10 | 0.09 | 0.15 | 0.16 | 0.16 | 0.11 | 0.11 | 0.11 | 0.14 | 0.20 | 0.07 | 0.13 | 0.09 | |
| 260 | 102294 | 1900 | 2 | 0.13 | 0.07 | 0.19 | 0.06 | 0.11 | 0.08 | 0.13 | 0.06 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.04 | 0.18 | 0.21 | 0.05 | 0.00 | 0.00 | 0.00 | |
| 261 | 102494 | 0600 | 5 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.05 | 0.06 | 0.00 | 0.00 | 0.06 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.06 | 0.06 | 0.00 | 0.09 | 0.13 | |
| 262 | 102594 | 2300 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.02 | |
| 263 | 103094 | 2400 | 22 | 1.28 | 1.77 | 1.43 | 1.71 | 1.48 | 1.31 | 1.21 | 1.36 | 1.57 | 1.44 | 1.33 | 1.41 | 1.45 | 1.41 | 1.51 | 1.15 | 1.40 | 1.44 | 1.80 | 1.31 | 1.36 | 1.24 | 1.12 | 1.30 | 1.38 | |
| 264 | 110394 | 1500 | 3 | 0.20 | 0.21 | 0.31 | 0.10 | 0.08 | 0.10 | 0.12 | 0.03 | 0.06 | 0.16 | 0.22 | 0.45 | 0.08 | 0.19 | 0.18 | 0.24 | 0.46 | 0.09 | 0.21 | 0.15 | 0.17 | 0.38 | 0.56 | 0.11 | 0.31 | |
| 265 | 110494 | 0200 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.08 | 0.00 | 0.00 | | |
| 266 | 110494 | 0800 | 6 | 0.45 | 0.21 | 0.25 | 0.28 | 0.19 | 0.20 | 0.21 | 0.26 | 0.31 | 0.16 | 0.23 | 0.20 | 0.23 | 0.20 | 0.33 | 0.31 | 0.27 | 0.24 | 0.31 | 0.36 | 0.32 | 0.25 | 0.17 | 0.25 | 0.26 | |
| 267 | 110494 | 2000 | 27 | 1.01 | 1.27 | 0.83 | 1.33 | 1.01 | 0.81 | 0.78 | 1.21 | 1.02 | 0.82 | 0.71 | 0.70 | 1.15 | 0.73 | 0.82 | 0.77 | 0.70 | 1.89 | 1.25 | 0.88 | 0.85 | 0.78 | 0.63 | 1.68 | 1.94 | |
| 268 | 110994 | 0100 | 16 | 0.12 | 0.18 | 0.12 | 0.19 | 0.15 | 0.11 | 0.11 | 0.23 | 0.21 | 0.22 | 0.18 | 0.26 | 0.27 | 0.22 | 0.26 | 0.41 | 0.44 | 0.17 | 0.35 | 0.35 | 0.53 | 0.60 | 0.63 | 0.29 | 0.38 | |
| 269 | 111394 | 2000 | 7 | 0.10 | 0.13 | 0.21 | 0.12 | 0.08 | 0.14 | 0.24 | 0.11 | 0.06 | 0.12 | 0.17 | 0.21 | 0.05 | 0.06 | 0.10 | 0.18 | 0.18 | 0.06 | 0.09 | 0.09 | 0.16 | 0.18 | 0.15 | 0.06 | 0.04 | |
| 270 | 112094 | 0300 | 8 | 0.21 | 0.22 | 0.15 | 0.19 | 0.20 | 0.19 | 0.16 | 0.20 | 0.16 | 0.20 | 0.17 | 0.13 | 0.17 | 0.09 | 0.18 | 0.18 | 0.15 | 0.22 | 0.25 | 0.19 | 0.17 | 0.16 | 0.14 | 0.20 | 0.24 | |
| 271 | 112094 | 1900 | 10 | 0.62 | 0.59 | 0.39 | 0.61 | 0.48 | 0.42 | 0.48 | 0.53 | 0.52 | 0.51 | 0.44 | 0.49 | 0.52 | 0.55 | 0.52 | 0.51 | 0.53 | 0.57 | 0.61 | 0.51 | 0.56 | 0.66 | 0.46 | 0.66 | 0.61 | |
| 272 | 112794 | 0300 | 11 | 1.00 | 1.08 | 0.79 | 0.84 | 1.06 | 0.75 | 0.84 | 0.78 | 0.96 | 0.79 | 0.82 | 0.69 | 0.86 | 0.60 | 0.67 | 0.72 | 0.66 | 0.63 | 0.71 | 0.62 | 0.62 | 0.58 | 0.58 | 0.56 | 0.77 | |
| 273 | 113094 | 0900 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 274 | 120294 | 1900 | 8 | 0.06 | 0.08 | 0.16 | 0.07 | 0.04 | 0.10 | 0.10 | 0.04 | 0.01 | 0.11 | 0.06 | 0.05 | 0.04 | 0.09 | 0.04 | 0.07 | 0.02 | 0.03 | 0.05 | 0.06 | 0.07 | 0.04 | 0.00 | 0.05 | 0.04 | |
| 275 | 120394 | 0700 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 0.03 | 0.04 | 0.04 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | |
| 276 | 120694 | 0400 | 26 | 1.71 | 1.97 | 1.90 | 1.83 | 1.92 | 1.79 | 1.84 | 1.68 | 1.80 | 1.88 | 1.76 | 1.87 | 1.75 | 1.83 | 1.66 | 1.68 | 1.51 | 1.69 | 1.84 | 1.57 | 1.37 | 1.39 | 1.46 | 1.49 | 1.41 | |
| 277 | 120894 | 1700 | 12 | 0.21 | 0.29 | 0.26 | 0.22 | 0.23 | 0.22 | 0.24 | 0.17 | 0.25 | 0.23 | 0.21 | 0.17 | 0.24 | 0.23 | 0.21 | 0.19 | 0.17 | 0.29 | 0.21 | 0.17 | 0.19 | 0.16 | 0.15 | 0.21 | 0.20 | |
| 278 | 121694 | 0100 | 12 | 0.34 | 0.35 | 0.21 | 0.26 | 0.26 | 0.31 | 0.26 | 0.20 | 0.20 | 0.27 | 0.21 | 0.26 | 0.22 | 0.17 | 0.24 | 0.27 | 0.29 | 0.31 | 0.29 | 0.28 | 0.29 | 0.29 | 0.37 | 0.24 | 0.29 | |
| 279 | 122094 | 0300 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.10 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.06 | 0.00 | 0.00 | |
| 280 | 122094 | 1300 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | |
| 281 | 123194 | 2300 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.00 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 282 | 010695 | 0100 | 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.02 | 0.04 | 0.00 | 0.16 | 0.00 | 0.05 | 0.05 | 0.10 | 0.15 | 0.13 | 0.03 | 0.11 | 0.03 | 0.13 | 0.10 | 0.10 | 0.11 | 0.06 | |
| 283 | 01 1395 | 0400 | 30 | 1.10 | 2.06 | 1.55 | 1.52 | 1.48 | 1.37 | 1.52 | 1.51 | 1.56 | 1.46 | 1.19 | 1.86 | 1.57 | 1.74 | 1.65 | 1.53 | 1.88 | 1.60 | 2.18 | 1.62 | 1.68 | 1.56 | 1.63 | 1.73 | 1.65 | |
| 284 | 01 1795 | 0500 | 3 | 0.00 | 0.04 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | |
| 285 | 01 1895 | 2000 | 26 | 0.34 | 0.80 | 0.73 | 0.97 | 0.63 | 0.79 | 0.92 | 0.77 | 0.94 | 0.77 | 0.75 | 0.82 | 0.87 | 0.89 | 1.03 | 0.92 | 0.94 | 0.68 | 1.03 | 0.84 | 0.85 | 0.66 | 0.90 | 0.73 | 0.79 | |
| 286 | 012795 | 0400 | 27 | 0.33 | 0.42 | 0.27 | 0.37 | 0.37 | 0.30 | 0.33 | 0.29 | 0.28 | 0.43 | 0.33 | 0.34 | 0.48 | 0.27 | 0.52 | 0.37 | 0.35 | 0.55 | 0.76 | 0.55 | 0.48 | 0.47 | 0.47 | 0.42 | 0.50 | |
| 287 | 020395 | 0200 | 14 | 0.12 | 0.12 | 0.07 | 0.15 | 0.15 | 0.13 | 0.19 | 0.19 | 0.21 | 0.20 | 0.15 | 0.18 | 0.23 | 0.24 | 0.21 | 0.17 | 0.21 | 0.19 | 0.25 | 0.27 | 0.17 | 0.19 | 0.12 | 0.33 | 0.41 | |
| 288 | 021495 | 1400 | 5 | 0.03 | 0.04 | 0.03 | 0.00 | 0.03 | 0.04 | 0.00 | 0.03 | 0.05 | 0.05 | 0.05 | 0.00 | 0.06 | 0.00 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.00 | 0.06 | 0.06 | 0.04 | 0.03 | |
| 289 | 022695 | 1600 | 15 | 0.38 | 0.48 | 0.35 | 0.36 | 0.34 | 0.29 | 0.41 | 0.33 | 0.37 | 0.37 | 0.41 | 0.48 | 0.38 | 0.37 | 0.41 | 0.33 | 0.32 | 0.41 | 0.51 | 0.45 | 0.34 | 0.34 | 0.29 | 0.37 | 0.45 | |
| 290 | 030495 | 2200 | 10 | 0.44 | 0.53 | 0.48 | 0.38 | 0.42 | 0.45 | 0.46 | 0.44 | 0.43 | 0.47 | 0.49 | 0.45 | 0.47 | 0.31 | 0.48 | 0.44 | 0.43 | 0.54 | 0.56 | 0.46 | 0.44 | 0.47 | 0.49 | 0.44 | 0.41 | |
| 291 | 030695 | 2000 | 17 | 0.56 | 0.85 | 0.79 | 0.57 | 0.67 | 0.73 | 0.79 | 0.66 | 0.78 | 0.77 | 0.88 | 1.06 | 0.75 | 0.90 | 0.83 | 1.13 | 1.19 | 0.74 | 1.09 | 0.78 | 1.22 | 1.13 | 1.09 | 0.75 | 0.70 | |
| 292 | 032095 | 0300 | 6 | 0.25 | 0.24 | 0.17 | 0.27 | 0.21 | 0.20 | 0.26 | 0.21 | 0.21 | 0.16 | 0.24 | 0.23 | 0.24 | 0.08 | 0.23 | 0.23 | 0.23 | 0.15 | 0.18 | 0.17 | 0.40 | 0.23 | 0.29 | 0.26 | 0.23 | |
| 293 | 032295 | 1800 | 2 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 0.10 | 0.06 | 0.02 | 0.00 | 0.06 | 0.07 | 0.09 | 0.05 | 0.03 | 0.04 | 0.05 | 0.09 | 0.03 | 0.00 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 294 | 032695 | 0400 | 4 | 0.09 | 0.08 | 0.07 | 0.04 | 0.07 | 0.05 | 0.06 | 0.02 | 0.02 | 0.07 | 0.07 | 0.08 | 0.06 | 0.03 | 0.04 | 0.06 | 0.05 | 0.04 | 0.07 | 0.06 | 0.06 | 0.04 | 0.05 | 0.06 | 0.06 | |
| 295 | 032695 | 2100 | 10 | 0.31 | 0.39 | 0.25 | 0.24 | 0.33 | 0.33 | 0.35 | 0.28 | 0.26 | 0.24 | 0.31 | 0.34 | 0.22 | 0.17 | 0.23 | 0.34 | 0.27 | 0.35 | 0.42 | 0.37 | 0.34 | 0.33 | 0.31 | 0.34 | 0.39 | |
| 296 | 040395 | 0900 | 6 | 0.13 | 0.17 | 0.21 | 0.17 | 0.23 | 0.29 | 0.36 | 0.19 | 0.28 | 0.38 | 0.39 | 0.43 | 0.33 | 0.31 | 0.37 | 0.29 | 0.26 | 0.28 | 0.29 | 0.29 | 0.25 | 0.17 | 0.20 | 0.24 | 0.21 | |
| 297 | 040695 | 1200 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.13 | |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Continued)

| Strm# | Date | Hour | Duration* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
|-------|--------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 298 | 040695 | 1800 | 8 | 0.00 | 0.00 | 0.00 | 0.05 | 0.03 | 0.00 | 0.03 | 0.00 | 0.02 | 0.02 | 0.03 | 0.05 | 0.00 | 0.03 | 0.00 | 0.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | |
| 299 | 040795 | 2100 | 11 | 0.98 | 1.05 | 1.09 | 0.91 | 0.99 | 1.34 | 1.09 | 1.13 | 1.15 | 0.98 | 0.94 | 0.94 | 0.92 | 0.85 | 0.78 | 0.65 | 0.83 | 0.53 | 0.75 | 0.72 | 0.74 | 0.47 | 0.42 | 0.50 | 0.65 | |
| 300 | 040995 | 0100 | 7 | 0.55 | 0.76 | 0.55 | 0.78 | 0.65 | 0.59 | 0.65 | 0.79 | 0.63 | 0.63 | 0.81 | 0.82 | 0.68 | 0.71 | 0.84 | 0.67 | 0.64 | 0.78 | 0.75 | 0.61 | 0.42 | 0.31 | 0.30 | 0.54 | 0.48 | |
| 301 | 040995 | 2300 | 9 | 0.63 | 0.60 | 0.57 | 0.63 | 0.40 | 0.53 | 0.42 | 0.31 | 0.44 | 0.44 | 0.33 | 0.46 | 0.57 | 0.42 | 0.39 | 0.33 | 0.28 | 0.27 | 0.24 | 0.09 | 0.10 | 0.11 | 0.05 | 0.06 | 0.10 | |
| 302 | 041095 | 1300 | 2 | 0.12 | 0.08 | 0.05 | 0.11 | 0.04 | 0.05 | 0.02 | 0.16 | 0.00 | 0.02 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | |
| 303 | 041095 | 2000 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | |
| 304 | 041195 | 1000 | 11 | 0.50 | 0.44 | 0.28 | 0.38 | 0.48 | 0.39 | 0.24 | 0.29 | 0.43 | 0.45 | 0.39 | 0.25 | 0.34 | 0.40 | 0.46 | 0.41 | 0.32 | 0.40 | 0.44 | 0.38 | 0.42 | 0.41 | 0.36 | 0.38 | 0.42 | |
| 305 | 041595 | 1400 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.02 | 0.00 | 0.05 | 0.00 | 0.05 | 0.04 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | |
| 306 | 041695 | 2100 | 4 | 0.12 | 0.18 | 0.10 | 0.52 | 0.57 | 0.37 | 0.29 | 0.46 | 0.39 | 0.43 | 0.40 | 0.42 | 0.32 | 0.13 | 0.13 | 0.35 | 0.34 | 0.39 | 0.39 | 0.23 | 0.43 | 0.26 | 0.37 | 0.22 | 0.30 | |
| 307 | 041795 | 2000 | 11 | 0.81 | 0.95 | 0.92 | 0.69 | 0.75 | 0.85 | 0.95 | 0.64 | 0.55 | 0.74 | 0.88 | 0.91 | 0.54 | 0.43 | 0.68 | 0.84 | 0.93 | 0.56 | 0.69 | 0.68 | 0.77 | 0.63 | 0.88 | 0.54 | 0.62 | |
| 308 | 042095 | 0200 | 7 | 0.32 | 0.32 | 0.30 | 0.32 | 0.32 | 0.33 | 0.30 | 0.26 | 0.31 | 0.30 | 0.30 | 0.32 | 0.37 | 0.14 | 0.27 | 0.31 | 0.36 | 0.35 | 0.31 | 0.25 | 0.30 | 0.37 | 0.39 | 0.32 | 0.29 | |
| 309 | 042095 | 2200 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.09 | |
| 310 | 042395 | 1700 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 311 | 042495 | 1400 | 5 | 0.05 | 0.05 | 0.05 | 0.00 | 0.06 | 0.05 | 0.12 | 0.07 | 0.00 | 0.06 | 0.05 | 0.08 | 0.12 | 0.09 | 0.07 | 0.05 | 0.03 | 0.05 | 0.05 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | |
| 312 | 042695 | 0600 | 9 | 0.17 | 0.20 | 0.13 | 0.16 | 0.18 | 0.15 | 0.11 | 0.18 | 0.19 | 0.13 | 0.09 | 0.10 | 0.07 | 0.13 | 0.08 | 0.08 | 0.02 | 0.10 | 0.10 | 0.09 | 0.06 | 0.04 | 0.04 | 0.12 | 0.09 | |
| 313 | 042695 | 2200 | 8 | 0.54 | 0.46 | 0.61 | 0.54 | 0.49 | 0.53 | 0.50 | 0.46 | 0.48 | 0.47 | 0.51 | 0.64 | 0.57 | 0.55 | 0.65 | 0.66 | 0.74 | 0.58 | 0.56 | 0.64 | 0.70 | 0.79 | 0.52 | 0.60 | 0.55 | |
| 314 | 042995 | 1200 | 11 | 0.16 | 0.21 | 0.20 | 0.19 | 0.15 | 0.14 | 0.13 | 0.16 | 0.13 | 0.12 | 0.11 | 0.16 | 0.16 | 0.13 | 0.17 | 0.16 | 0.15 | 0.16 | 0.24 | 0.23 | 0.22 | 0.25 | 0.22 | 0.18 | 0.16 | |
| 315 | 050395 | 1500 | 18 | 0.09 | 0.04 | 0.00 | 0.08 | 0.03 | 0.07 | 0.06 | 0.12 | 0.04 | 0.04 | 0.08 | 0.05 | 0.08 | 0.08 | 0.04 | 0.10 | 0.05 | 0.04 | 0.04 | 0.09 | 0.10 | 0.18 | 0.08 | 0.13 | 0.11 | |
| 316 | 050795 | 1900 | 17 | 1.69 | 1.70 | 1.27 | 1.76 | 1.43 | 1.14 | 1.21 | 1.74 | 1.36 | 1.29 | 1.15 | 1.15 | 1.41 | 0.67 | 1.24 | 1.06 | 1.23 | 1.07 | 1.02 | 0.82 | 1.00 | 1.04 | 1.22 | 0.92 | 0.89 | |
| 317 | 050895 | 1600 | 14 | 1.18 | 1.03 | 0.39 | 0.46 | 1.11 | 0.47 | 0.61 | 0.55 | 0.63 | 0.75 | 0.41 | 0.62 | 0.63 | 0.83 | 0.66 | 0.30 | 0.36 | 0.77 | 0.35 | 0.60 | 0.16 | 0.94 | 0.29 | 0.21 | 0.51 | |
| 318 | 050995 | 1600 | 4 | 0.32 | 0.24 | 0.47 | 0.19 | 0.06 | 0.13 | 0.12 | 0.31 | 0.08 | 0.03 | 0.00 | 0.00 | 0.06 | 0.04 | 0.00 | 0.00 | 0.03 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.06 | |
| 319 | 051095 | 0200 | 12 | 0.17 | 0.04 | 0.25 | 0.09 | 0.12 | 0.10 | 0.14 | 0.04 | 0.07 | 0.09 | 0.04 | 0.18 | 0.00 | 0.04 | 0.04 | 0.34 | 0.45 | 0.02 | 0.03 | 0.00 | 0.14 | 0.34 | 0.27 | 0.00 | 0.00 | |
| 320 | 051295 | 2000 | 12 | 0.39 | 0.41 | 0.43 | 0.36 | 0.43 | 0.37 | 0.50 | 0.43 | 0.39 | 0.46 | 0.47 | 0.47 | 0.42 | 0.25 | 0.44 | 0.46 | 0.37 | 0.41 | 0.46 | 0.45 | 0.40 | 0.36 | 0.34 | 0.29 | 0.35 | |
| 321 | 051395 | 1800 | 1 | 0.06 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 322 | 051695 | 0500 | 7 | 0.04 | 0.04 | 0.08 | 0.05 | 0.05 | 0.05 | 0.13 | 0.03 | 0.00 | 0.03 | 0.00 | 0.06 | 0.02 | 0.02 | 0.06 | 0.06 | 0.11 | 0.12 | 0.10 | 0.18 | 0.04 | 0.09 | 0.11 | 0.12 | 0.39 | |
| 323 | 051695 | 1500 | 12 | 0.90 | 0.86 | 0.85 | 1.07 | 1.05 | 1.05 | 1.10 | 1.78 | 2.12 | 1.93 | 1.58 | 1.56 | 3.07 | 3.25 | 3.04 | 2.40 | 2.46 | 3.65 | 4.22 | 3.26 | 3.28 | 3.60 | 3.13 | 3.59 | 2.94 | |
| 324 | 051795 | 0800 | 21 | 0.67 | 0.84 | 0.75 | 0.85 | 0.79 | 0.77 | 0.84 | 0.98 | 1.03 | 0.93 | 0.81 | 0.89 | 0.91 | 0.81 | 0.83 | 0.87 | 0.77 | 0.93 | 1.00 | 0.88 | 0.87 | 0.98 | 0.89 | 1.02 | 0.98 | |
| 325 | 051895 | 1000 | 9 | 0.49 | 0.41 | 0.47 | 0.53 | 0.44 | 0.52 | 0.44 | 0.56 | 0.67 | 0.81 | 0.54 | 0.64 | 1.15 | 1.09 | 0.76 | 0.69 | 1.34 | 1.85 | 1.04 | 0.66 | 0.79 | 0.60 | 0.68 | 0.97 | 0.57 | |
| 326 | 052395 | 1000 | 6 | 0.28 | 0.28 | 0.28 | 0.25 | 0.41 | 0.36 | 0.25 | 0.16 | 0.46 | 0.20 | 0.20 | 0.09 | 0.41 | 0.24 | 0.18 | 0.08 | 0.14 | 0.22 | 0.22 | 0.13 | 0.15 | 0.11 | 0.11 | 0.29 | 0.19 | |
| 327 | 052395 | 1900 | 24 | 2.72 | 2.76 | 2.32 | 2.64 | 2.83 | 2.23 | 2.23 | 2.49 | 2.41 | 2.53 | 2.66 | 2.85 | 2.70 | 3.40 | 3.08 | 2.77 | 2.62 | 3.22 | 3.78 | 3.24 | 2.79 | 2.42 | 2.35 | 3.33 | 3.00 | |
| 328 | 052695 | 2200 | 8 | 0.09 | 0.09 | 0.03 | 0.06 | 0.07 | 0.05 | 0.04 | 0.06 | 0.09 | 0.06 | 0.07 | 0.05 | 0.10 | 0.07 | 0.09 | 0.04 | 0.06 | 0.13 | 0.13 | 0.13 | 0.07 | 0.09 | 0.09 | 0.08 | 0.12 | |
| 329 | 052795 | 1000 | 15 | 0.86 | 1.02 | 0.80 | 0.77 | 0.71 | 0.78 | 0.71 | 0.75 | 0.74 | 0.84 | 0.76 | 0.89 | 0.73 | 0.39 | 0.63 | 0.61 | 0.72 | 0.74 | 0.45 | 0.49 | 0.61 | 1.13 | 1.12 | 0.60 | 0.45 | |
| 330 | 052895 | 0700 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | |
| 331 | 060295 | 0800 | 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.08 | 0.00 | 0.04 | 0.03 | 0.00 | 0.00 | 0.09 | 0.04 | 0.09 | 0.09 | 0.07 | 0.07 | 0.04 | 0.00 | 0.07 | |
| 332 | 060895 | 0700 | 5 | 0.32 | 0.33 | 0.24 | 0.54 | 0.31 | 0.39 | 0.34 | 0.27 | 0.26 | 0.23 | 0.30 | 0.27 | 0.25 | 0.36 | 0.70 | 0.67 | 0.47 | 0.53 | 0.44 | 0.28 | 0.43 | 0.26 | 0.27 | 0.39 | 0.35 | |
| 333 | 060995 | 0900 | 5 | 0.06 | 0.06 | 0.08 | 0.08 | 0.10 | 0.00 | 0.15 | 0.00 | 0.10 | 0.10 | 0.09 | 0.10 | 0.14 | 0.12 | 0.13 | 0.26 | 0.12 | 0.11 | 0.17 | 0.18 | 0.00 | 0.14 | 0.15 | 0.12 | 0.17 | |
| 334 | 060995 | 2300 | 4 | 0.03 | 0.15 | 0.28 | 0.05 | 0.00 | 0.25 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | |
| 335 | 061195 | 1300 | 4 | 0.04 | 0.03 | 0.00 | 0.03 | 0.03 | 0.00 | 0.04 | 0.00 | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.00 |
| 336 | 062095 | 1800 | 11 | 0.45 | 0.12 | 0.54 | 0.29 | 0.09 | 0.21 | 0.79 | 0.12 | 0.43 | 0.26 | 0.28 | 0.47 | 0.27 | 0.18 | 0.33 | 1.11 | 0.83 | 0.04 | 0.06 | 0.15 | 0.43 | 0.40 | 0.82 | 0.11 | 0.07 | |
| 337 | 062195 | 1900 | 6 | 0.06 | 0.06 | 0.21 | 0.11 | 0.10 | 0.10 | 0.27 | 0.18 | 0.31 | 0.54 | 0.44 | 0.71 | 0.91 | 0.52 | 0.96 | 0.61 | 0.37 | 1.29 | 2.67 | 0.51 | 0.66 | 0.57 | 0.48 | 0.61 | 0.48 | |
| 338 | 062395 | 1400 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.02 | 0.09 | 0.00 | 0.03 | 0.00 | 0.00 | 0.03 | 0.14 | 0.00 | 0.00 | |
| 339 | 062495 | 0100 | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 0.00 | 0.23 | 0.86 | 0.26 | 0.59 | 0.00 | 0.04 | 0.13 | 0.33 | 1.23 | 2.52 | 0.00 | 0.00 | 0.00 |
| 340 | 062495 | 1600 | 5 | 0.05 | 1.91 | 0.09 | 0.02 | 0.69 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.04 | |

*Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

Table V-2. (Concluded)

| <i>Strm#</i> | <i>Date</i> | <i>Hour</i> | <i>Duration*</i> | <i>1</i> | <i>2</i> | <i>3</i> | <i>4</i> | <i>5</i> | <i>6</i> | <i>7</i> | <i>8</i> | <i>9</i> | <i>10</i> | <i>11</i> | <i>12</i> | <i>13</i> | <i>14</i> | <i>15</i> | <i>16</i> | <i>17</i> | <i>18</i> | <i>19</i> | <i>20</i> | <i>21</i> | <i>22</i> | <i>23</i> | <i>24</i> | <i>25</i> |
|--------------|-------------|-------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 341 | 062595 | 1400 | 6 | 0.00 | 0.04 | 0.00 | 0.15 | 0.03 | 0.04 | 0.05 | 0.00 | 0.00 | 0.05 | 0.00 | 0.07 | 0.00 | 0.04 | 0.13 | 0.06 | 0.35 | 0.00 | 0.00 | 0.06 | 0.20 | 0.03 | 0.00 | 0.03 | 0.05 |
| 342 | 062695 | 0200 | 16 | 0.90 | 0.48 | 0.23 | 0.00 | 0.22 | 0.25 | 0.09 | 0.10 | 0.05 | 0.07 | 0.17 | 0.16 | 0.27 | 0.16 | 0.02 | 0.12 | 0.09 | 0.44 | 0.47 | 0.45 | 0.05 | 0.03 | 0.08 | 0.48 | 0.33 |
| 343 | 062795 | 1100 | 11 | 0.03 | 0.03 | 0.00 | 0.15 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.17 | 0.09 | 0.02 | 0.00 | 0.02 | 0.42 | 0.04 | 0.00 | 0.05 | 0.02 | 0.05 | 0.13 |
| 344 | 062895 | 1400 | 7 | 0.20 | 0.89 | 0.09 | 0.00 | 0.46 | 0.29 | 0.22 | 0.10 | 0.00 | 0.13 | 0.45 | 0.36 | 0.09 | 0.48 | 0.03 | 0.63 | 1.10 | 0.13 | 0.07 | 0.35 | 0.41 | 0.46 | 0.39 | 0.14 | 0.08 |
| 345 | 062995 | 1100 | 11 | 0.09 | 0.04 | 0.03 | 0.06 | 0.02 | 0.04 | 0.04 | 0.09 | 0.11 | 0.05 | 0.02 | 0.08 | 0.10 | 0.04 | 0.04 | 0.00 | 0.04 | 0.34 | 0.21 | 0.06 | 0.02 | 0.27 | 0.04 | 0.42 | 0.22 |
| 346 | 070495 | 0300 | 14 | 1.09 | 0.93 | 0.52 | 0.74 | 0.70 | 0.37 | 0.35 | 0.38 | 0.45 | 0.25 | 0.00 | 0.24 | 0.11 | 0.30 | 0.00 | 0.22 | 0.29 | 0.27 | 0.16 | 0.10 | 0.07 | 0.13 | 0.29 | 0.48 | 0.17 |
| 347 | 070495 | 2300 | 5 | 0.12 | 0.08 | 0.18 | 0.35 | 0.06 | 0.13 | 0.28 | 0.27 | 0.13 | 0.08 | 0.00 | 0.25 | 0.03 | 0.10 | 0.00 | 0.00 | 0.09 | 0.03 | 0.00 | 0.03 | 0.04 | 0.10 | 0.00 | 0.00 | 0.00 |
| 348 | 070595 | 2100 | 4 | 0.37 | 0.27 | 0.11 | 0.15 | 0.04 | 0.03 | 0.04 | 0.08 | 0.03 | 0.05 | 0.05 | 0.10 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.06 | 0.02 | 0.00 | 0.00 | 0.03 | 0.12 | 0.04 | 0.00 |
| 349 | 070995 | 1300 | 5 | 0.11 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.03 | 0.00 | 0.04 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.02 | 0.00 | 0.00 |
| 350 | 071695 | 1400 | 5 | 0.06 | 0.03 | 0.04 | 0.20 | 0.23 | 0.10 | 0.05 | 0.00 | 0.10 | 0.16 | 0.46 | 0.94 | 0.32 | 0.24 | 0.05 | 0.68 | 0.31 | 0.10 | 0.28 | 0.40 | 0.26 | 0.12 | 0.14 | 0.61 | 0.50 |
| 351 | 071895 | 2000 | 5 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352 | 072095 | 0700 | 10 | 0.12 | 0.14 | 0.11 | 0.20 | 0.25 | 0.31 | 0.41 | 0.45 | 0.34 | 0.27 | 0.22 | 0.14 | 0.27 | 0.25 | 0.00 | 0.00 | 0.15 | 0.22 | 0.18 | 0.18 | 0.21 | 0.21 | 0.25 | 0.23 | 0.18 |
| 353 | 072095 | 2000 | 4 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 354 | 072295 | 0800 | 6 | 0.49 | 0.47 | 0.64 | 0.65 | 0.55 | 0.36 | 0.36 | 0.24 | 0.24 | 0.46 | 0.83 | 0.85 | 0.10 | 0.07 | 0.19 | 0.57 | 0.84 | 0.12 | 0.37 | 0.34 | 0.74 | 0.42 | 0.51 | 0.39 | 0.26 |
| 355 | 072395 | 0600 | 6 | 0.62 | 0.31 | 0.10 | 0.32 | 0.55 | 0.09 | 0.10 | 0.53 | 0.46 | 0.49 | 0.42 | 0.49 | 0.77 | 0.37 | 0.38 | 0.44 | 0.28 | 1.10 | 0.82 | 0.30 | 0.33 | 0.60 | 0.45 | 0.85 | 0.23 |
| 356 | 072395 | 2100 | 4 | 0.05 | 0.03 | 0.02 | 0.04 | 0.01 | 0.06 | 0.00 | 0.21 | 0.04 | 0.05 | 0.04 | 0.04 | 0.25 | 0.08 | 0.03 | 0.00 | 0.03 | 0.68 | 0.75 | 0.39 | 0.20 | 0.26 | 0.06 | 0.00 | 0.00 |
| 357 | 072495 | 1600 | 5 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.10 | 0.68 | 0.02 | 0.03 | 0.20 | 0.18 | 0.23 | 0.08 | 0.10 | 0.30 | 0.39 | 0.23 | 0.32 | 0.61 | 0.00 | 0.00 | 0.84 | 0.36 |
| 358 | 072595 | 1300 | 15 | 0.42 | 0.29 | 0.14 | 0.00 | 0.16 | 0.19 | 0.42 | 0.00 | 0.20 | 0.04 | 0.16 | 0.00 | 0.29 | 0.08 | 0.05 | 0.02 | 0.27 | 0.16 | 0.26 | 0.41 | 0.21 | 0.23 | 0.55 | 0.56 | 0.25 |
| 359 | 072695 | 1700 | 4 | 0.00 | 0.44 | 0.08 | 0.15 | 0.00 | 0.20 | 0.26 | 0.00 | 0.32 | 0.25 | 0.00 | 0.50 | 0.17 | 0.24 | 0.00 | 0.44 | 0.24 | 0.28 | 0.13 | 0.74 | 0.03 | 0.00 | 0.05 | 0.00 | 0.12 |
| 360 | 072795 | 2000 | 5 | 0.05 | 0.03 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.15 | 0.10 | 0.03 | 0.00 | 0.00 | 0.16 | 0.21 | 0.00 | 0.02 | 0.00 | 0.16 | 0.04 | 0.06 | 0.04 | 0.01 | 0.00 | 0.09 | 0.09 |
| 361 | 073195 | 2000 | 8 | 0.00 | 0.03 | 0.65 | 0.00 | 0.12 | 0.18 | 0.24 | 0.25 | 0.01 | 0.22 | 0.14 | 0.06 | 0.22 | 0.34 | 0.11 | 0.16 | 0.11 | 0.00 | 0.14 | 0.49 | 0.22 | 0.16 | 0.21 | 0.04 | 0.20 |
| 362 | 080195 | 1500 | 5 | 0.00 | 0.14 | 0.03 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.08 | 0.03 | 0.04 | 0.00 | 0.55 | 0.26 | 0.28 | 0.14 |
| 363 | 080295 | 0200 | 17 | 0.67 | 0.55 | 0.48 | 0.55 | 0.67 | 0.36 | 0.45 | 0.33 | 0.60 | 0.47 | 0.58 | 0.44 | 0.62 | 0.89 | 0.71 | 0.85 | 0.43 | 0.70 | 0.98 | 0.88 | 0.85 | 0.77 | 0.54 | 0.74 | 0.94 |
| 364 | 080395 | 0100 | 11 | 0.33 | 0.47 | 0.46 | 0.33 | 0.41 | 0.32 | 0.25 | 0.32 | 0.14 | 0.13 | 0.04 | 0.18 | 0.11 | 0.01 | 0.17 | 0.20 | 0.41 | 0.00 | 0.05 | 0.06 | 0.28 | 0.15 | 0.57 | 0.00 | 0.05 |
| 365 | 080395 | 2300 | 15 | 0.09 | 0.09 | 0.00 | 0.13 | 0.07 | 0.00 | 0.13 | 0.12 | 0.08 | 0.09 | 0.17 | 0.17 | 0.13 | 0.16 | 0.14 | 0.26 | 0.19 | 0.21 | 0.30 | 0.16 | 0.34 | 1.29 | 1.12 | 1.10 | 0.52 |
| 366 | 080495 | 2100 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 367 | 080595 | 0200 | 5 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.03 | 0.12 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.04 | 0.03 | 0.00 | 0.09 | 0.00 | 0.00 | 0.09 |
| 368 | 080695 | 1800 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 369 | 080695 | 2300 | 3 | 0.01 | 0.17 | 0.00 | 0.00 | 0.00 | 0.11 | 0.09 | 0.00 | 0.00 | 0.00 | 0.04 | 0.29 | 0.00 | 0.15 | 0.03 | 0.00 | 0.08 | 0.00 | 0.00 | 0.20 | 0.02 | 0.06 | 0.04 | 0.00 | 0.00 |
| 370 | 080895 | 0400 | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.03 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | 080895 | 1200 | 6 | 0.34 | 0.21 | 0.29 | 0.32 | 0.22 | 0.29 | 1.15 | 0.33 | 0.32 | 0.17 | 0.21 | 0.46 | 0.76 | 0.91 | 0.41 | 0.17 | 0.40 | 0.88 | 0.80 | 0.73 | 0.53 | 0.40 | 0.39 | 0.21 | 0.31 |
| 372 | 080995 | 1900 | 12 | 0.06 | 0.24 | 0.22 | 0.30 | 0.48 | 0.42 | 0.24 | 0.22 | 0.60 | 0.40 | 0.13 | 2.26 | 0.53 | 0.80 | 0.48 | 0.96 | 1.80 | 0.29 | 0.78 | 0.59 | 0.24 | 0.43 | 0.87 | 0.04 | 0.37 |
| 373 | 081395 | 1900 | 3 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 374 | 081495 | 1100 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375 | 081595 | 1600 | 8 | 0.68 | 0.13 | 0.38 | 0.49 | 0.28 | 0.04 | 0.49 | 0.47 | 0.22 | 0.06 | 0.05 | 0.27 | 0.00 | 0.10 | 0.00 | 0.00 | 0.03 | 0.11 | 0.15 | 0.04 | 0.15 | 0.00 | 0.00 | 0.09 | 0.12 |
| 376 | 081695 | 1100 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 377 | 081695 | 1500 | 7 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.00 | 0.00 | 0.00 | 0.05 | 0.02 | 0.00 | 0.00 | 0.14 | 0.09 | 0.04 | 0.17 | 0.16 |
| 378 | 081795 | 0100 | 7 | 0.04 | 0.17 | 0.21 | 0.15 | 0.24 | 0.22 | 0.21 | 0.41 | 0.23 | 0.42 | 0.25 | 0.18 | 0.04 | 0.21 | 0.29 | 0.37 | 0.48 | 0.16 | 0.21 | 0.25 | 0.29 | 0.49 | 0.51 | 0.13 | 0.28 |
| 379 | 082495 | 1500 | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: Duration specified in hours. Values in boldface type exceed one-year recurrence frequency.

