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Operation of Rain Gauge and Groundwater Monitoring Networks for the Imperial Valley Water Authority

Year Nine: September 2000 - August 2001

by

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Prepared for the
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Illinois State Water Survey
Office of the Chief
Groundwater Section
Atmospheric Environment Section
Champaign, Illinois

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REPORT

to the

Imperial Valley Water Authority

Office of the Chief,
Groundwater Section,
and Atmospheric Environment Section

Illinois State Water Survey
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Abstract

The Illinois State Water Survey (ISWS), under contract to the Imperial Valley Water Authority (IVWA), has operated a network of rain gauges in Mason and Tazewell Counties since August 1992. The ISWS also established a network of groundwater observation wells in the Mason-Tazewell area in 1994. These networks are located in the most heavily irrigated region of the state. The region's major source of water for irrigation and municipal, industrial, and domestic water supplies is groundwater pumped from thick sand-and-gravel deposits associated with the confluence of two major ancient river valleys, the Mississippi and the Mahomet-Teays.

Recent extreme weather events (e.g., the drought of 1988 and the great flood of 1993) resulted in large fluctuations in groundwater levels in the Imperial Valley area. The rain gauge network and the groundwater observation well network collect long-term data to determine the rate of groundwater level decline in dry periods and during the growing season, and the rate of groundwater level recovery during recharge periods.

This report presents data accumulated from the rain gauge and observation well networks since their inception through August 2001. Precipitation is recorded continuously at 20 rain gauges for each storm that traverses the Imperial Valley. Groundwater levels at the 13 observation wells are measured the first of each month. The database from these networks consists of nine years of precipitation data and seven years of groundwater observations.

At the beginning of groundwater observations in late 1994, the water levels were at their highest in the seven years of observation. These high groundwater levels were the result of the very wet 1992-1995 period when annual precipitation was above the 30-year normals at both Havana and Mason City. From September 1995-August 1997, precipitation in the region was well below the 30-year normal followed by the 1997-1998 and 1998-1999 observation years with rainfall totals slightly above and slightly below normal, respectively. Groundwater levels in the observation wells reflected the multi-year rainfall patterns, showing a general downward trend during dry years, a recovery in wet 1997-1998, and a leveling off in near-normal 1998-1999, followed by declines in dry 1999-2000. Despite a dry July, near-normal precipitation in 2001 brought a return to more typical seasonal hydrographs.

This report includes new regression analyses of data collected through August 2001, similar to regression analyses first conducted on data collected through August 1998. The analyses indicate that groundwater levels are affected by precipitation in the Imperial Valley area and, for wells close to the Illinois River, by river stage. Generally, water levels in wells follow antecedent precipitation and Illinois River stage by one to two months; e.g., a high correlation between June groundwater levels and the Illinois River stage or precipitation that occurs in April or May.

However, additional data collected since 1998 did not improve the results of the regression analyses. In fact, coefficients of determination for many regressions worsened. This suggests that regressions of observed groundwater levels versus river stage and precipitation are not adequately describing all the variables affecting groundwater levels. Using the data collected to verify, test, and improve the existing Imperial Valley groundwater flow model is highly recommended. Continued data collection also is recommended to create long-term data sets of precipitation and groundwater levels for use in modeling analyses. Collection of additional groundwater level and irrigation pumpage data also is highly recommended.

Acknowledgments

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Introduction

The Imperial Valley area, a portion of which also is called the Havana Lowlands, is located principally in Mason and southern Tazewell Counties in west-central Illinois, just east of the Illinois River (Figure 1). The area overlies the confluence of the Mackinaw (ancestral Mississippi River) and the Mahomet-Teays bedrock valleys. The sandy soils and rolling dunes of the confluence area in the western portion of the Imperial Valley stand in stark contrast to the typically flat silt loam soils throughout much of the rest of central Illinois. The sand-and-gravel deposits associated with these two valleys contain an abundant groundwater resource. The area is used primarily for row and specialty crops, all made possible by irrigation from the easily developed groundwater resource that underlies the Imperial Valley.

Regional precipitation variability affects irrigation water demand on the aquifer, recharge to the aquifer, and the extent to which the aquifer can be used for agricultural irrigation and for municipal, industrial, and domestic water supplies. All these factors affect water withdrawals from an aquifer. Therefore, knowledge of the precipitation variability and its relationship to groundwater recharge over an extensively irrigated region, such as the area within the Imperial Valley Water Authority (IVWA), should provide useful information for the management of groundwater resources in that region.

The Illinois State Water Survey (ISWS) has a long-term interest in precipitation measurement and related research, and has performed precipitation research in areas such as hydrology, weather modification, climate change, and urban influences on precipitation climate. Scientists and engineers from the ISWS have conducted extensive research on Illinois groundwater resources and have a continued interest in the hydrodynamics and recharge of aquifers in the state.

The objective of this project is to conduct long-term monitoring of precipitation and groundwater levels in the Imperial Valley region to learn how the groundwater resources respond to drought and seasonal irrigation pumping, and to ascertain the temporal recharge intervals due to seasonal pumping.

Rain Gauge and Observation Well Networks

A number of studies (Walker et al., 1965; Panno et al., 1994; Clark, 1994) have shown that precipitation is the primary source of water for groundwater recharge in the Imperial Valley. Therefore, detailed precipitation measurements are important for understanding its contribution to groundwater levels in the Imperial Valley area.

During the last 40 years, the ISWS has operated rain gauge networks of varying areal gauge 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 rain gauge spacing should be adequate for properly capturing convective precipitation systems

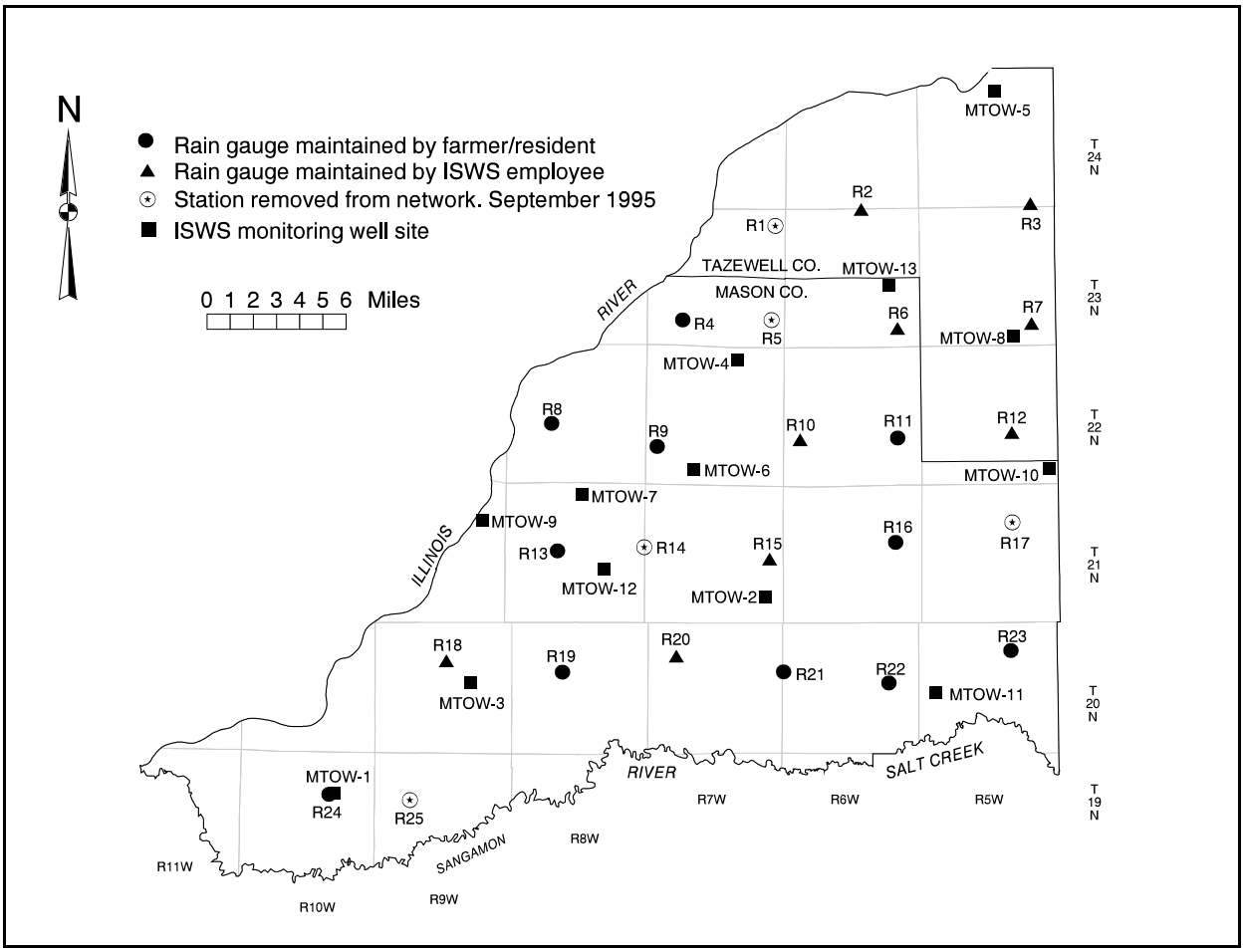

Figure 1. Configuration of the 13-site observation well network and the 25-site rain gauge network in the Imperial Valley during the 2000-2001 observation year

(spring and summer), while a 6-mile spacing is adequate for more widespread precipitation-producing systems (fall and winter). The Belfort weighing bucket rain gauge provides precise and reliable precipitation measurements. Given the size of the IVWA area and the above spacing guidelines, a gridded, 25-site rain gauge network (Figure 1) with approximately 5 miles between gauges was established in late August 1992. The network was reduced to 20 sites in September 1996. Results of the previous years of the network operation are reported in Peppler and Hollinger (1994, 1995), Hollinger and Peppler (1996), Hollinger (1997), Hollinger and Scott (1998), Hollinger et al. (1999, 2000), and Scott et al. (2001).

The observation well network, originally consisting of 11 wells, Mason-Tazewell Observation Wells (MTOW)-1 through MTOW-11, was established for the IVWA in 1994 by Sanderson and Buck (1995). The IVWA added two wells (MTOW-12 and MTOW-13) in 1995 and 1996 to improve spatial coverage of the network. The 13 observation wells are located fairly uniformly across the Imperial Valley study area (Figure 1).

Results of the first six years of operation of the observation well network are reported in Scott et al. (2001). Hollinger et al. (1999) includes quantitative analyses of the correlation

between precipitation, Illinois River stage, and groundwater levels for the first four years of observation well network data.

Report Objective

This report documents the operation, maintenance, data reduction and analysis, and management of the networks during the ninth year of the rain gauge network operation and the seventh year of the observation well network operation. A qualitative discussion of observed relationships between precipitation, Illinois river stage, and groundwater levels is included, followed by a discussion of quantitative regression analyses of those relationships.

Appendices document the regional soil descriptions (Appendix I), hydrographs and groundwater level data for the observation wells (Appendix II), rain gauge network site descriptions (Appendix III), instructions for rain gauge technicians (Appendix IV), and documentation of rain gauge maintenance for the 2000-2001 period (Appendix V). Also included are graphs of monthly rainfall for each site (Appendix VI), rain day and rain event data (Appendix VII), and network storm events with unusually large precipitation events recorded during the year highlighted and total rainfall at each network station during each storm period in the nine years of operation (Appendix VIII).

Groundwater Level Observation Well Network Description

A general description of each network well is provided in Table 1, including well location, depth, and the predominant soil associations in proximity to each well. A description of the nature of the materials within each soil association is included in Appendix I. This provides some determination of relative soil permeability around the wells. Generally, the greater permeabilities associated with the Plainfield-Bloomfield, Sparta-Plainfield-Ade, and Onarga-Dakota-Sparta soil associations are found at wells MTOW-1, MTOW-3, MTOW-4, MTOW-6, MTOW-7, MTOW-9, and MTOW-12, all located on the western side of the study area. The fine-grained nature of the materials found in the upper portion of the geologic profiles at wells MTOW-10 and MTOW-11 (located in the southeastern portion of the study area) indicates that the water levels in these two wells are under artesian conditions. Because the water in these wells is under pressure, the water-level responses may be different from those of other wells.

The wells range in depth from 24 to 100 feet. Most network wells were constructed after 1985, either as part of special studies within the Imperial Valley or for use in this observation well network. One well, MTOW-1, located at Snicarte, is an inactive, large-diameter, hand-dug domestic well that the ISWS started monitoring in March 1958. Four other wells were also inactive water supply wells. All network wells have been surveyed for well head elevation above mean sea level.

Groundwater Network Operation and Maintenance

Groundwater levels in the IVWA observation wells were measured at the beginning of each month from March through November. (December, January, and February readings typically have not been collected.) A mid-month measurement was collected during the irrigation

Table 1. Summary of Imperial Valley Observation Wells

Name	*I.D.*	*Location*	*Depth (feet)*	*Generalized Soil Association*	*Remarks*
Snicarte	MTOW-1	Section 11.8b, T.19N., R.10W., Mason County	40.5	Sparta-Plainfield-Ade	Inactive well, continuous record since 1958
Easton	MTOW-2	Section 25.8a, T.21N., R.7W., Mason County	82	Elburn-Plano-Thorp	Abandoned city fire well
Mason County Wildlife Refuge & Recreation Area	MTOW-3	Section 14.8c, T.20N., R.9W., Mason County	24	Plainfield-Bloomfield	Installed in 1985 for ISGS study
Sand Ridge SR-11	MTOW-4	Section 2.8d, T.22N., R.7W., Mason County	27	Plainfield-Bloomfield	Installed in 1989 for ISWS study
Pekin - OW8	MTOW-5	Section 3.6a, T.24N., R.5W., Tazewell County	49	Selma-Harpster	Installed in 1991 for ISWS study
Mason State Tree Nursery	MTOW-6	Section 33.8f, T.22N., R.7W., Mason County	45.5	Onarga-Dakota-Sparta	Installed in 1993
IL Route 136 Rest Area	MTOW-7	Section 3.7e, T.21N., R.8W., Mason County	44	Onarga-Dakota-Sparta	Installed in 1993
Green Valley	MTOW-8	Section 34.1c, T.23N., R.5W., Mason County	53.5	Elburn-Plano-Thorp	Installed in 1993
IDOT - DWR	MTOW-9	Section 12.8e, T.21N., R.9W., Mason County	48	Sparta-Plainfield-Ade	Installed in 1994 for flood study
San Jose	MTOW-10	Section 36.2d, T.22N., R.5W., Mason County	56	Elburn-Plano-Thorp	Old municipal well
Mason City	MTOW-11	Section 18.2a, T.20N., R.5W., Mason County	63	Tama-Ipava	Old municipal well
Hahn Farm	MTOW-12	Section 23.8c, T.21N., R.8W., Mason County	100	Plainfield-Bloomfield	Old turkey farm well
Talbott Tree Farm	MTOW-13	Section 9.4a, T.23N, R.6W., Tazewell County	82	Selma-Harpster	Installed in 1996

Note: General Soil Map Units are from Calsyn, 1995. See Appendix I for general explanation of soil associations.

seasons of 1995 -1997 (May-October 1995, May-September 1996, and May-August 1997). Groundwater levels were measured manually with a steel tape or electric probe and entered into a database as depth below land surface. The IVWA collected these measurements and maintained the database. The IVWA forwarded the resulting data to the ISWS.

The Snicarte observation well, MTOW-1, has been monitored by ISWS since 1958 and has been incorporated into the Shallow Groundwater Well Network of the ISWS Water and Atmospheric Resources Monitoring Program. This well is equipped with a Stevens, Type F water-level recorder that produces a continuous record of the groundwater level on a 32-day paper chart. Staff from ISWS visited the well monthly to measure the groundwater level, change the recorder chart, and perform recorder maintenance. Therefore, a longer and more complete groundwater level record is available for this well than for any other IVWA network well.

Rain Gauge Network Operation and Maintenance

Peppler and Hollinger (1994) described construction of the IVWA rain gauge network and the setup of the weighing-bucket rain gauges used. Appendix III gives complete site description information for the 20 operational rain gauge locations as of August 31, 2001. Also included are the locations of five rain gauges removed from the network in 1995. Originally, each rain gauge was equipped with a 24-hour recording chart changed weekly by a volunteer on site (generally the owner of the property where the gauge was located). Over the period of time gauges have remained in operation, many have been converted to recorders equipped with weekly charts that are changed monthly. At the end of the ninth year, local observers continued to perform weekly rain gauge maintenance at five sites. The remaining 15 sites were maintained by a local Mason County resident hired to service the gauges once a month and serve as a local resource for the other volunteer observers.

In December 1997, all rain gauges were upgraded to include a data logger and linear potentiometer to automatically record the amount of water in the rain gauges every 10 minutes. Recording charts were maintained at all sites to serve as a backup recording in the event of data logger failure. The five sites with weekly rain charts (sites 8, 11, 16, 19, and 24) were serviced every 6 to 11 days and also were visited at the end of each month to download the rainfall data from the data loggers. End-of-month rain gauge servicing included removing and replacing the current chart, checking the felt-tipped pen to make sure it was inking properly, emptying the bucket contents from approximately April-October, and noting any unusual problems, including chart-drive malfunction, gauge imbalance or instability, vandalism, and unauthorized movement of the gauge, 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 rain gauge bucket so that any frozen precipitation collected would melt to allow a proper weight reading, and to prevent freeze damage to the collection bucket. Approximately once a week, local observers mailed their charts to the ISWS. Appendix IV contains a complete description of servicing instructions for rain gauge observers.

Minor maintenance and repairs were performed by the paid observer in Mason County. Champaign-based personnel visited the network to perform major maintenance and repairs as

needed. This usually consisted of a site assessment of an observer-noted problem and 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, also were solved on these trips. Appendix III documents non-routine maintenance or repairs, including any site relocations, for the 20 rain gauges during Year Nine.

Groundwater Level and Precipitation Data Analysis

This section presents the groundwater level and rainfall data for Year 2000-2001. Data collected from the observation well and rain gauge networks were maintained in separate databases and were analyzed independently. The resulting rainfall and groundwater level information was combined to evaluate the response of the groundwater levels to local precipitation.

Groundwater Level Analysis

Graphs of groundwater levels for each well for the period of record (1995 - 2001) are presented in graphical and tabular form in Appendix II. Graphs of groundwater levels are commonly called hydrographs. Each hydrograph contains the total monthly precipitation for the nearest rain gauge. For observation wells located between several rain gauges, an average of the surrounding rain gauge data is presented. For observation wells located relatively near the Illinois River (MTOW-1, MTOW-5, and MTOW-9), the stage of the river at the nearest U.S. Army Corps of Engineers (USACE) gauging station is included. Mean monthly stage data were downloaded from the USACE Internet site (http://water.mvr.usace.army.mil) for the Beardstown, Havana, and Kingston Mines stations. Because of an apparently strong correlation between groundwater levels and river stage at well MTOW-2 (Hollinger et al., 1999), Illinois River stage at Havana also is presented with its hydrograph. The Illinois River stage also was added for the hydrograph of well MTOW-12 for visual inspection as part of the river stage and step-wise regression analyses. All hydrographs were plotted at the same vertical (depth-to-water) and horizontal (time) scales to simplify comparison of the observation well water levels.

The IVWA has estimated irrigation pumpage from wells in the Imperial Valley since 1995, based on electric power consumption, using a modified version of the equation below.

$$I_t = 0.00221Q * H/A$$

where I_t is the total irrigation water applied (in inches), Q is the estimated pumping rate of the irrigation well (in gallons per minute, gpm), H is the duration of pumping (in hours), A is the irrigated area (in acres), and 0.00221 is a constant used to convert gpm to acre-inches per hour (Bowman and Kimpel, 1991). Electric power for the region is supplied by an electric cooperative (Menard System) that provides the IVWA with electric power consumption data for the irrigation wells during the growing season (June - September). However, only a fraction of the irrigation

wells use electric power to pump water. The estimate was made by assuming application rates for the irrigation wells with electric pumps are representative of those using other energy sources. This estimate was based on the assumption that 33 percent of the irrigation wells used electric pumps in 1995-1997, and that 40 percent of the wells used electric pumps in 1998-2001.

Using this method, a monthly and seasonal estimate of irrigation pumpage was calculated for the Imperial Valley (Table 2). Since 1995, irrigation withdrawals have averaged 44 billion gallons per year, but annual totals have varied from 36 to 57 billion gallons. Total annual irrigation withdrawal ranked from highest to lowest is 2001, 1996, 1999, 1997, 1995, 2000, and 1998. The greatest average irrigation withdrawals typically occur in July followed by August, then September and June trailing far behind. Estimated irrigation withdrawals show July with the greatest monthly total in five of the seven years reported.

Precipitation Analysis

Data reduction activities during Year Nine of network operation were the same as those performed during the first eight years. See Peppler and Hollinger (1994) for complete details on these tasks. The number of storm events and storm days at each station were determined for the 9-year period. 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.

Network storm periods also were defined. A storm period was defined as a precipitation event separated from preceding and succeeding events at all stations in the network by 3 hours.

Table 2. Estimated Monthly Irrigation Pumpage (billion gallons) and Number of Irrigation Systems in the Imperial Valley

Year	*June*	*July*	*August*	*September*	*Total*	*# Systems*
1995	2.58	13.45	10.43	10.62	37.08	N/A
1996	2.02	20.20	18.03	12.34	52.59	N/A
1997	3.14	22.48	17.30	2.46	45.38	N/A
1998	2.53	9.37	15.79	8.24	35.93	1622
1999	3.43	21.13	14.04	7.17	45.77	1771
2000	7.64	7.16	14.69	6.75	36.24	1799
2001	5.28	25.51	20.01	6.01	56.81	1818
Average	3.80	17.04	15.76	7.66	44.26	

Note: N/A = not applicable.

Combined Groundwater Level and Precipitation Analysis

A quantitative analysis of the correlation between total monthly precipitation and monthly groundwater level measurements was first conducted by Hollinger et al. (1999). Those analyses were repeated for this report, with an additional three years of data. Observed groundwater levels in each well were correlated to total monthly precipitation at an adjacent rain gauge, or an average of the total monthly precipitation at selected surrounding rain gauges. Observed groundwater levels also were correlated to Illinois River stage for selected wells.

Several correlation approaches were used. To examine the delay in groundwater response to precipitation, linear and exponential regressions of total monthly precipitation that "lagged" from 0 to 4 months from their occurrence were used. The effect of river stage on observed groundwater levels also was examined using linear and exponential regressions with river stage that lagged from 0 to 4 months in wells close to the Illinois River (MTOW-1, MTOW-5, and MTOW-9) and three wells located farther from the river (MTOW-2, MTOW-7, and MTOW-12) to see how far inland the river stage may have an influence. To examine the effect of total antecedent precipitation on observed groundwater levels, precipitation was accumulated for the 15 months prior to the current month and then regressed with observed groundwater levels. Finally, step-wise regressions were performed to examine the influence of Illinois River stage and total monthly precipitation together on groundwater levels for the same wells examined in the river stage regression analysis. Regressions and lag analysis were performed using Microsoft® Excel 2000 and SPSS® Release 10.1.4.

Results

Groundwater Levels

Groundwater levels in observation wells closest to the Illinois River, such as MTOW-5 and MTOW-9, fluctuated in response to river stage. Water levels in these wells had a wider and more easily discerned annual variation than the rest of the observation wells in the network (Appendix II). Water level changes in these two wells ranged from 5 to 10 feet within a given year (up to 15 feet between the 1995 peak and the 1996 trough in MTOW-5). Annual peak water levels typically occur in the spring and early summer, often within a month of the peak river stage on the Illinois River (Table 3). Groundwater-level response to river stage changes may be more rapid, and measurements more frequent than monthly may be required to better define the actual response time.

The highest groundwater levels occurred in 1995 (June/July). Groundwater levels followed a general downward trend during 1996 and 1997 and appeared to level off in 1998. This trend occurred subsequent to lower precipitation during 1995 - 1997 (Table 4) and resultant increases in irrigation pumpage during 1996 and 1997 (Table 2). Water levels in 1999 were very similar to those in 1998. However, peak water levels observed in wells MTOW-5 and MTOW-9 in 2000 were 2.8 to 6 feet below their respective peaks observed in 1999 and 7 to 13.4 feet below their respective recorded historical peaks in June-July 1995. Groundwater levels recovered in the

Table 3. Month in Which Observed Groundwater Levels Peaked in the IVWA Observation Well Network, 1995-2001

Month	*1995*	*1996*	*1997*	*1998*	*1999*	*2000*	*2001*
March		4, 10, 11, 13	4, 8, 10, 11		4	3, 4, 7, 8, 10, 11, 13	
April			2, 5, 9				4, 5, 9
May	12		1, 6, 7, 13				11
June	1, 2, 3, 5, 6, 7, 9, 10	2, 3, 5, 6, 7, 9, 12	3, 12	5, 9	1, 2, 5, 9		10
July	8, 11	1, 8		1, 2, 6, 7, 10, 12	6, 7, 10, 12	2, 5, 6	1, 2, 3, 6, 7, 8,12, 13
August	4			3, 8, 11, 13	3, 11	1, 9, 12	
September					8, 13		
October							
November				4			

Note: Number is observation well number (MTOW-x).

Table 4. Imperial Valley Network Average Annual Precipitation (inches) During Water Year (September-August)

Year		*Average precipitation (inches)*
1992 - 1993		55.55
1993 - 1994		40.21
1994 - 1995		39.42
1995 - 1996		25.70
1996 - 1997		27.58
1997 - 1998		40.48
1998 - 1999		34.24
1999 - 2000		26.20
2000 - 2001		31.77
1992-2001 average		35.68
1961-1990 average:	Havana	37.24
	Mason City	35.08

spring of 2001, but were still below the peaks observed from 1996-1999. Water levels fell rapidly after an April peak, recovery briefly in July after significant precipitation totals in May, then returned to the downward trend through September.

Groundwater levels in the other observation wells, more distant from the Illinois River, also showed their highest levels for the period of record in early to mid-1995. Uninfluenced by river stage, groundwater levels in these wells showed a much more consistent downward trend through 1996 and 1997, a recovery in 1998, and a leveling off of water levels during 1999 (Appendix II). As with wells MTOW-5 and MTOW-9, the annual maxima occur in the spring or early summer each year; however, these peaks were much more subdued in 1996 and 1997. For the wells distant from the Illinois River, the 1996-1997 maxima appear only as small rises on a downward-trending hydrograph and, in some cases appear just as momentary reductions in downward slopes. A distinct rise in water levels was measured in 1998 with maxima generally occurring in July and August. This was followed in 1999 by a more natural seasonal cycle in water levels with maxima and minima similar to 1998 observations. Groundwater levels then fell from late 1999 through 2000. Recovery was observed in 2001, but not consistently in all wells.

The timing (i.e., month of occurrence) of the annual maximum water level in each observation well is shown in Table 3. Observation wells MTOW-1, MTOW-2, MTOW-3, MTOW-5, MTOW-6, MTOW-7, MTOW-9, MTOW-10, and MTOW-12 had their highest groundwater levels for the period of record (September 1994-August 2001) in May or June 1995. Groundwater levels in wells MTOW-8 and MTOW-11 peaked in July 1995, and well MTOW-4 peaked in August 1995. The 1995 peak, therefore, appears to show a general delay from west to east across the study area. The water level in well MTOW-10 is under artesian conditions and does not fit the general west-to-east pattern.

Annual maxima in 1996 tend to show a similar delay. However, groundwater levels in several wells (MTOW-4, 10, 11, and 13) fell throughout the year. In addition, 1996 water level peaks were observed in March when monthly observations started again after winter (i.e., annual maxima actually may have occurred in January when observations were not made). Most of the other wells showed very little recovery in the spring, often less than 1 foot, except for those wells that respond to river stage (MTOW-1, 2, 5, and 9). This appears to be the result of a dry 1996 following a fairly wet 1995.

In 1997, the annual maxima came in early spring. The highest groundwater levels for wells MTOW-4, MTOW-8, MTOW-10, and MTOW-11 occurred in March, and water levels in those four wells declined throughout the rest of the year. A flattening of the downward slope on the hydrographs (Appendix II) can be seen in May or June in each of these wells; however, recovery was insufficient to cause water levels to rise above levels observed in March. In 1997, peak water levels in well MTOW-2 and the river wells MTOW-5 and MTOW-9 occurred in April. This was followed by peaks in wells MTOW-6, MTOW-7, and MTOW-13 in May, and wells MTOW-3 and MTOW-12 in June.

In 1998, the timing of the occurrence of the annual water-level maxima was similar to that experienced in 1995 and 1996, only the respective peaks occurred about a month later. The river wells MTOW-5 and MTOW-9 peaked in June; followed by wells MTOW-1, MTOW-2, MTOW-6, MTOW-7, MTOW-10, and MTOW-12 in July; and wells MTOW-3, MTOW-8,

MTOW-11, and MTOW-13 in August. Water levels in well MTOW-4 rose throughout the year and peaked in November (levels may have gone higher in December but were not recorded).

In 1999, groundwater levels generally peaked earlier in the year than in 1998. Water levels in well MTOW-4 peaked in March, probably as a result of the late recovery observed in 1998; this was followed by a slight decline (0.5 feet) through the rest of the year. Water levels peaked first, in June, in the westernmost wells (including the river wells) MTOW-1, MTOW-5, and MTOW-9, along with MTOW-2. That well, MTOW-2 was noted in Hollinger et al. (1999) as being unusual in that there appears to be a correlation between the observed groundwater level and Illinois River stage even though the well is many miles from the river and other wells closer to the river show much less correlation to river stage. Water levels peaked in July for wells MTOW-6, MTOW-7, MTOW-10, and MTOW-12. Wells MTOW-6, MTOW-7, and MTOW-12 are located fairly closely together within the west-central portion of the Imperial Valley; well MTOW-10 is on the eastern edge of the valley and, as stated previously, water levels in this well are under artesian conditions and may not respond like other observations wells in the network. Water levels peaked in August 1999 at wells MTOW-3 and MTOW-11 and in September at wells MTOW-8 and MTOW-13. This follows a similar pattern to 1998 when these four wells peaked last in August.

In 2000, groundwater levels in most wells fell throughout the reporting period, resulting in most wells with observed peaks in March, the earliest date of observation. This is clearly the result of below normal precipitation through the late months of 1999 and into 2000. There was virtually little to no recovery of groundwater levels during 2000, except in wells that respond to river stage, MTOW-1, MTOW-2, MTOW-5, MTOW-9, and MTOW-12. A peak in well MTOW-6 was recorded in July, but may have been below January levels, which were not recorded. Even in these wells, however, the peaks were much lower than in previous years.

In 2001, more typical seasonal hydrographs were observed. Water levels first peaked in the river wells, MTOW-5 and MTOW-9, in April. Nearly all the other wells peaked a few months later in July. Hydrographs for wells MTOW-4 and MTOW-11 were almost flat throughout 2001. At well MTOW-11, the May 2001 depth-to-water reading was 34.15 feet compared to 34.10 feet in December 2000, and 34.18 feet in both April and June 2001. Similarly for well MTOW-4, the highest observation of 14.59 feet in April 2001 is less than ½ foot different than the lowest reading of 15.00 feet in August 2001.

Examination of the average annual precipitation across the network helps to explain observed groundwater fluctuations over the period of observations. Table 4 contains the average annual precipitation for the Water Year (September through August of the following year) for the entire rain gauge network. Average network precipitation for the 9-year period and the 30-year (1961-1990) precipitation average at Havana and Mason City are included. The flood year of 1992-1993 had 55.55 inches of precipitation (19.87 inches above the 9-year network average). Water Years 1993-1994 and 1997-1998 were also above average (+4.53 and +4.80 inches, respectively), while Water Years 1995-1996, 1996-1997, and 1999-2000 were much below average (-9.99, -8.10, and -9.48 inches, respectively). Water Year 1998-1999 was just slightly below average (-1.44 inches).

Water Year 1994-1995 was above average (+3.74 inches), but one-fourth to one-third of this total fell in May 1995 alone, during which most network gauges recorded more than 10

inches of rainfall. This extreme occurrence caused groundwater levels to rise substantially over the following 1 to 3 months. However, the subsequent period, June - August 1995 and the following two years, were drier than normal, resulting in groundwater level declines. Finally, the current year, Water Year 2000-2001, was a below average year, 3.91 inches less than the network 9-year average precipitation.

The long-term hydrograph at well MTOW-1 (Snicarte) in Figure 2 provides a reference for comparison with the shorter records of the other network wells. Water levels in this well have been recorded by the ISWS since 1958. Annual fluctuations from less than 1 foot to more than 6 feet have been observed. These fluctuations often appear to be superimposed on longer term trends, up to 10 years in length. Interestingly, for the 44-year record, both the record low and high have been observed within the last 14 years. A detailed look at water levels since 1990 is shown in Figure 3 in which the vertical scale is exaggerated from the scale of the hydrographs in Appendix II to more clearly portray the annual fluctuations. Following the drought years of 1988 and 1989, the well was dry, meaning the water level fell below the bottom of the well at approximately 40.5 feet (from September 1989 until April 1990) for the only time in the period of record. After the 1993 floods, the groundwater levels rose almost 10 feet and peaked in

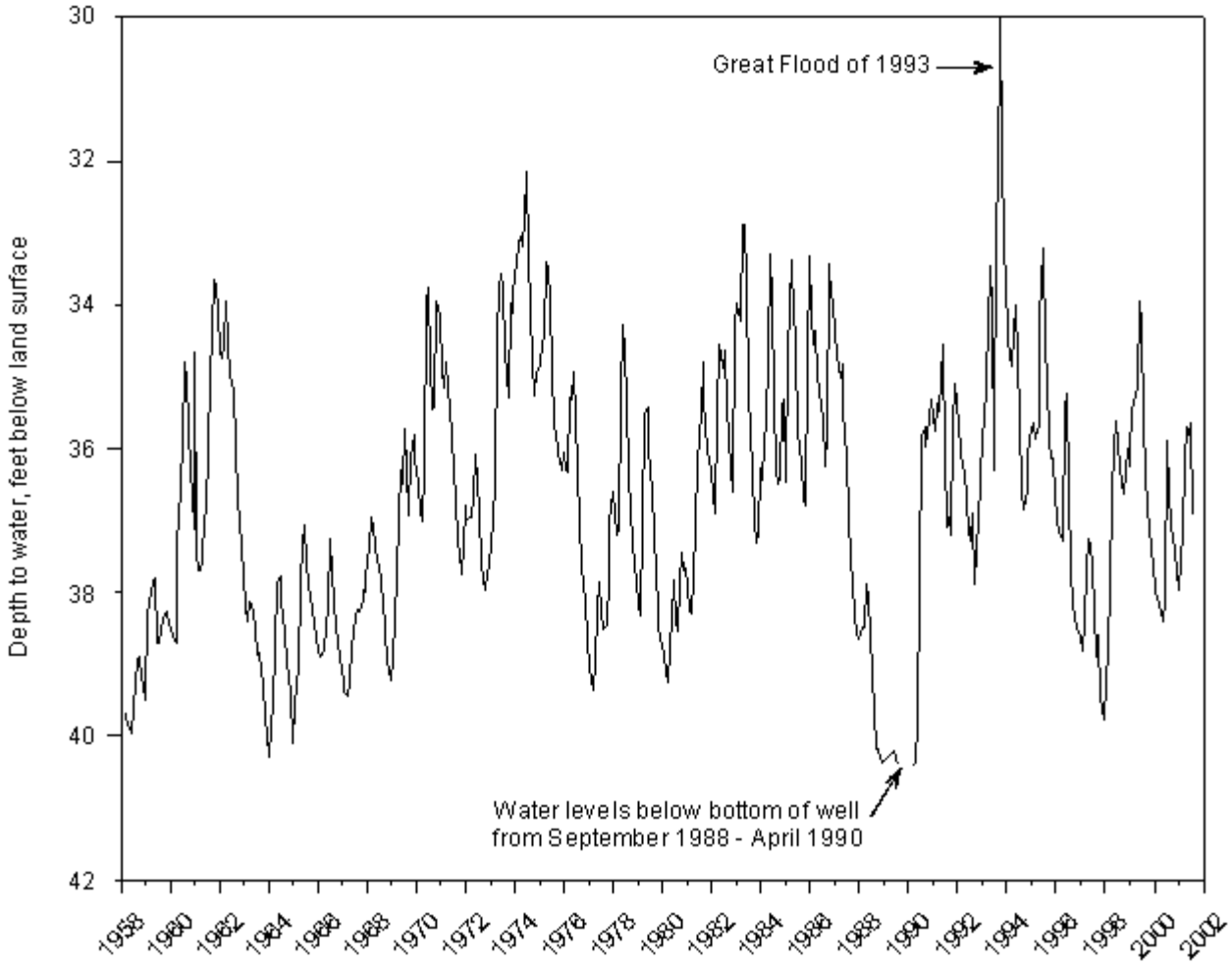

Figure 2. Groundwater levels at the Snicarte well (MTOW-1), 1958-2001

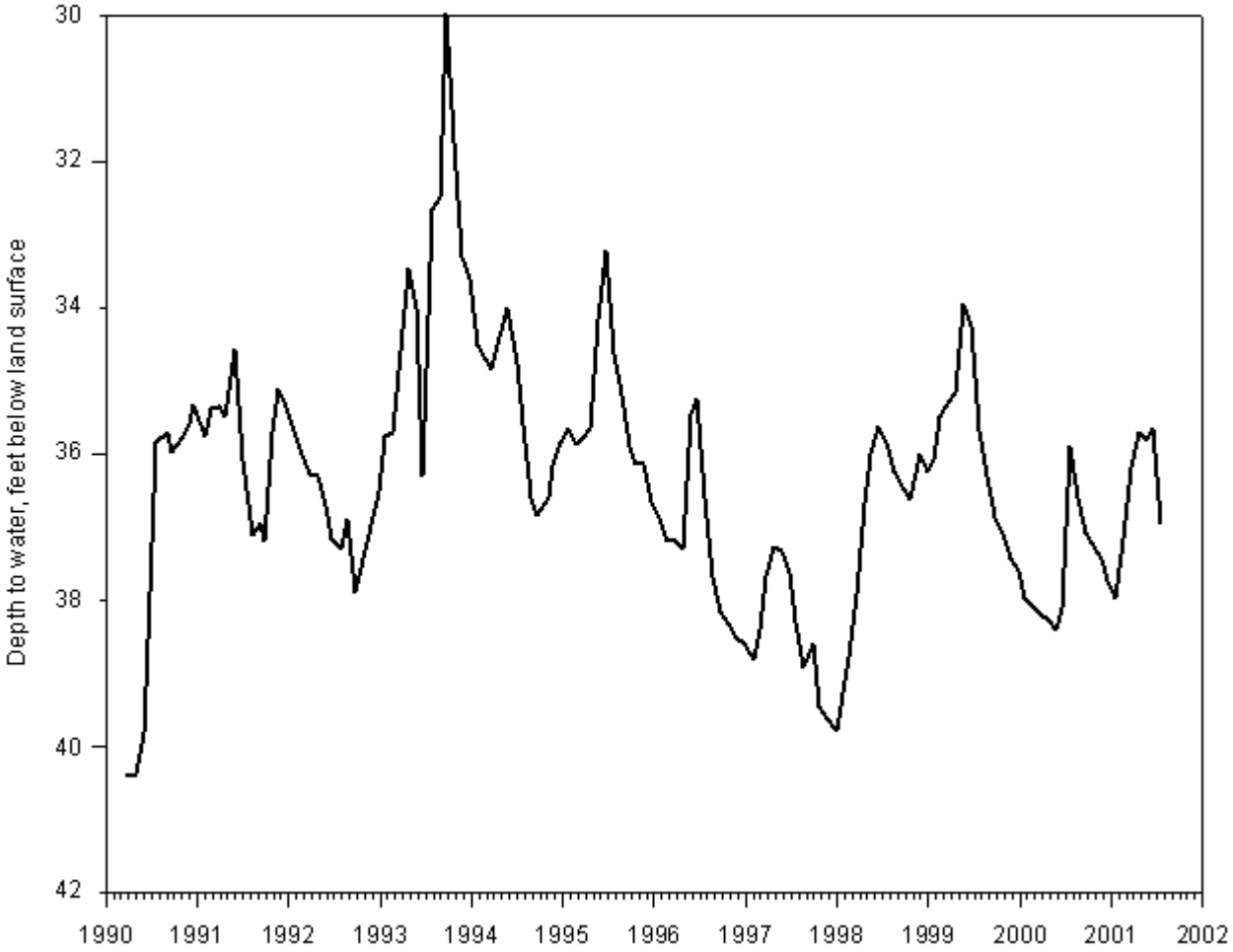

Figure 3. Groundwater levels at the Snicarte well (MTOW-1), 1990-2001

September 1993. In subsequent years, groundwater levels in MTOW-1 show an almost linear decline until 1998 when water levels rose dramatically, and then peaked in 1999 at levels similar to those observed in 1994 and 1995. After the 1999 peak, groundwater levels fell sharply until mid-summer 2000, and appeared to return to a more natural seasonal cycle throughout the rest of 2000 into 2001.

Precipitation

Table 5 contains monthly and annual (September 2000-August 2001) precipitation amounts for each site in the IVWA network. Average precipitation for the first eight years of network operations and the annual rainfall pattern for Year Nine are shown in map form in Figure 4. Monthly rainfall patterns for Year Nine are shown in Figures 5-10.

Precipitation totals for the current year (Table 5) ranged from 42.30 inches at site 16 northwest of Mason City to 26.52 inches at site 22 southwest of Mason City. The patterns seen in

Table 5. Monthly Precipitation Amounts (inches) for September 2000 to August 2001

	Month												
Site#	*Sep*	*Oct*	*Nov*	*Dec*	*Jan*	*Feb*	*Mar*	*Apr*	*May*	*Jun*	*Jul*	*Aug*	*Total*
2	2.19	1.65	2.47	1.00	3.78	3.09	1.34	4.26	5.36	3.68	0.70	3.76	33.28
3	1.65	1.65	1.77	1.71	3.40	2.48	1.36	3.94	6.21	2.38	1.15	2.79	30.49
4	1.81	1.97	2.50	1.10	3.54	2.95	1.48	5.29	4.78	4.44	0.60	3.57	34.03
6	2.00	1.87	1.87	1.19	3.41	2.69	1.34	3.11	4.97	2.51	0.98	4.75	30.69
7	1.86	1.79	2.03	1.17	3.29	2.73	1.40	4.59	6.98	2.33	2.20	3.75	34.12
8	1.92	1.97	1.71	1.32	3.26	2.50	1.21	0.83	4.15	3.68	0.96	3.44	26.95
9	1.69	1.92	1.98	1.26	3.55	4.14	1.56	3.58	4.07	4.18	1.40	3.18	32.51
10	2.63	1.93	1.76	1.04	3.55	2.59	1.53	3.47	5.41	3.58	1.45	3.43	32.37
11	1.42	1.66	2.12	1.12	3.73	2.86	1.35	3.63	6.42	3.01	2.05	3.64	33.01
12	1.88	2.13	2.44	1.13	3.02	3.17	1.28	3.78	4.70	2.37	0.72	4.47	31.09
13	2.17	1.87	2.11	1.42	3.85	3.11	1.77	3.00	5.51	1.25	1.58	3.57	31.21
15	1.81	1.35	1.82	1.02	3.18	2.77	1.46	3.14	4.19	3.27	0.76	3.36	28.13
16	2.36	1.99	3.03	1.27	4.27	4.26	2.44	5.02	8.26	3.17	1.65	4.58	42.30
18	2.22	1.33	2.02	1.18	3.52	3.17	1.73	2.56	4.70	3.87	2.65	3.99	32.94
19	2.53	1.68	2.38	1.39	3.61	3.50	2.29	3.14	5.34	4.38	2.10	3.18	35.52
20	2.16	1.63	1.83	0.89	2.88	2.77	1.51	2.95	4.42	3.30	0.72	4.26	29.32
21	1.69	1.76	2.11	0.90	2.66	2.46	1.37	2.68	4.26	2.72	0.46	3.93	27.00
22	1.78	1.71	2.38	1.31	2.81	2.33	1.40	2.48	3.95	1.87	0.29	4.21	26.52
23	1.72	1.93	2.45	1.25	3.07	2.63	1.44	2.82	3.51	1.84	2.44	4.74	29.84
24	2.93	2.29	1.86	1.01	3.57	3.34	1.74	3.68	4.06	3.84	1.47	4.29	34.08
Average	2.02	1.80	2.13	1.18	3.40	2.98	1.55	3.40	5.06	3.08	1.32	3.84	31.77

Note: Stations 1, 5, 14, 17, and 25 were removed from network in September 1995.

the eight-year network average (Figure 4a) were reflected in the precipitation trends in Year Nine. Sites 16 and 19 had relatively high precipitation totals while sites 8 and 22 reported local minimum values. (The exceedingly large total at site 16 was not analyzed in Figure 4a to the value reported in Table 5.)

May 2001 (Figure 9a) was the wettest month of Year Nine, reporting a 5.06-inch network average, followed by August 2001 (Figure 10b, 3.84 inches), January 2001 (Figure 7a, 3.40 inches), and April 2001 (Figure 8b, 3.40 inches). Precipitation for those four months totaled 15.70 inches, or approximately 49 percent of the total annual rainfall. December 2000 was the driest month of the year (Figure 6b, 1.18 inches) followed by July 2001 (Figure 10a, 1.32 inches), March 2001 (Figure 8a, 1.55 inches), and October 2000 (Figure 5b, 1.80 inches). Total average precipitation across the network in these four months was light, 5.85 inches, or slightly more than 18 percent of the yearly total. Precipitation amounts in the remaining months of Year Nine, September and November 2000 and February and June 2001, were relatively uniform with network averages totaling between 2.02 and 3.08 inches.

Individually, only January, February, May, and August 2001 were wetter than average (Table 6). This reflected the low annual network precipitation totals and the lower groundwater conditions found within the network. Spring 2001 (March - May) was the wettest season of the

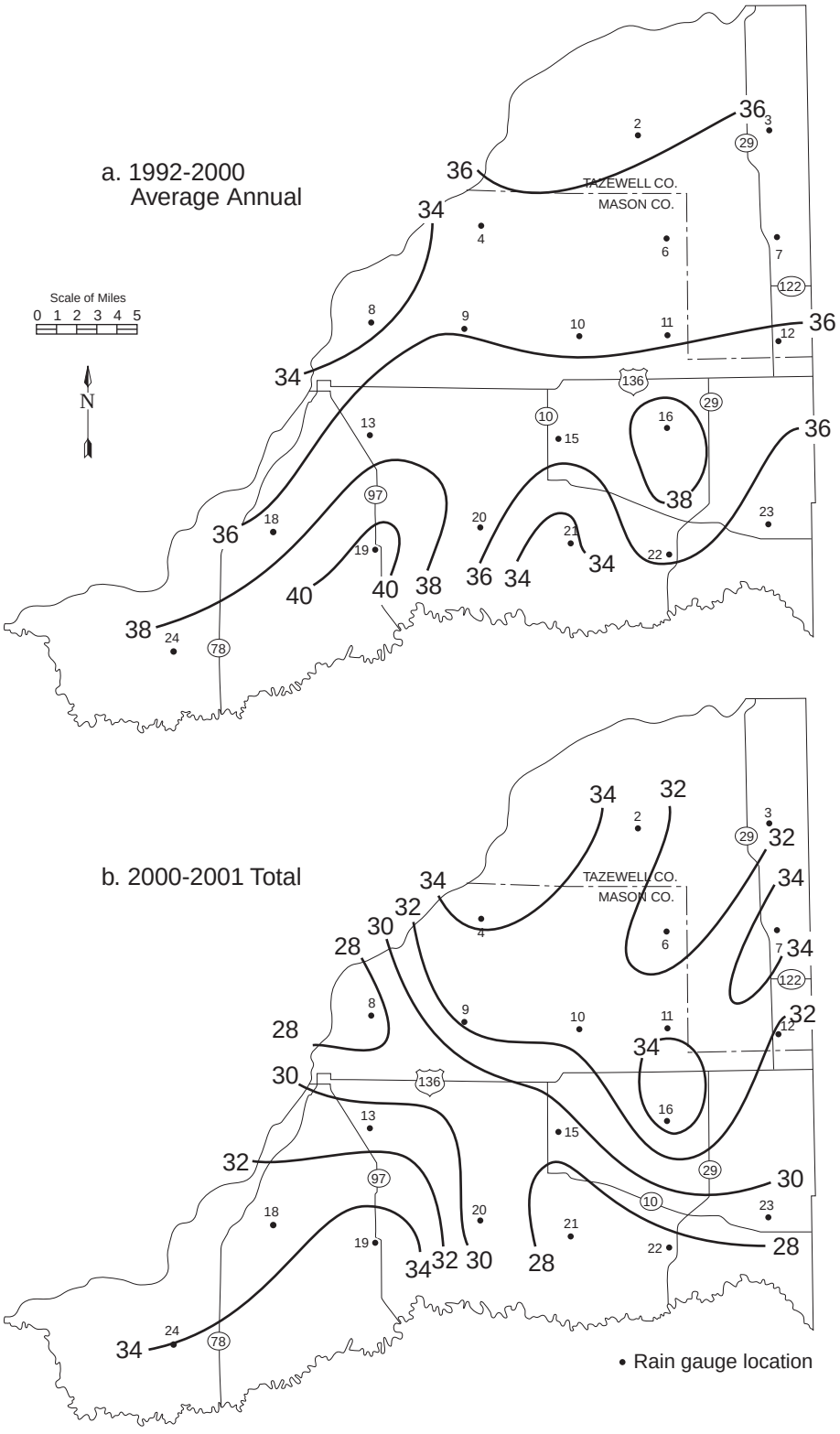

Figure 4. Average annual precipitation (inches) for a) September 1992-August 2000 and b) September 2000-August 2001

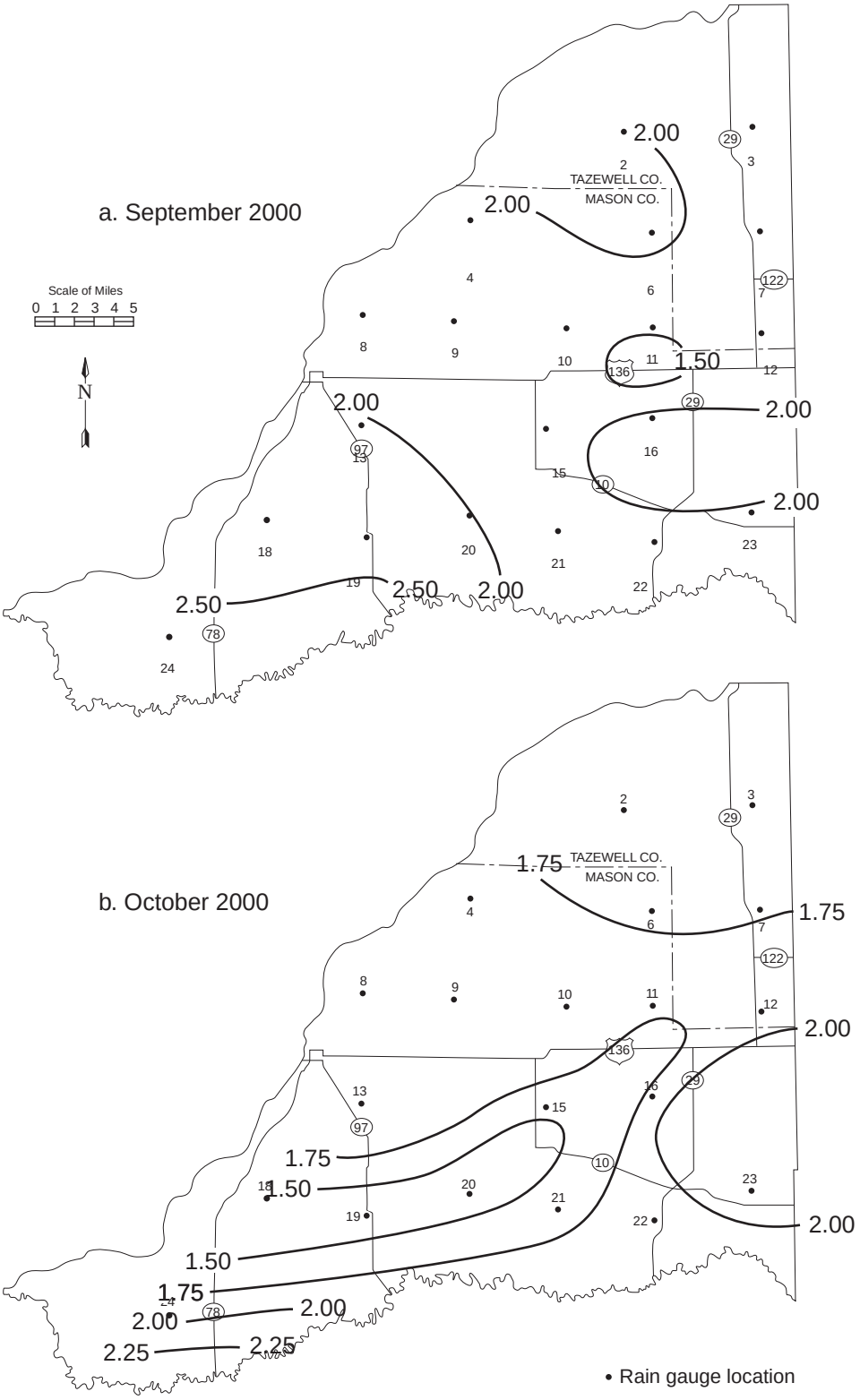

Figure 5. Precipitation (inches) for a) September 2000 and b) October 2000

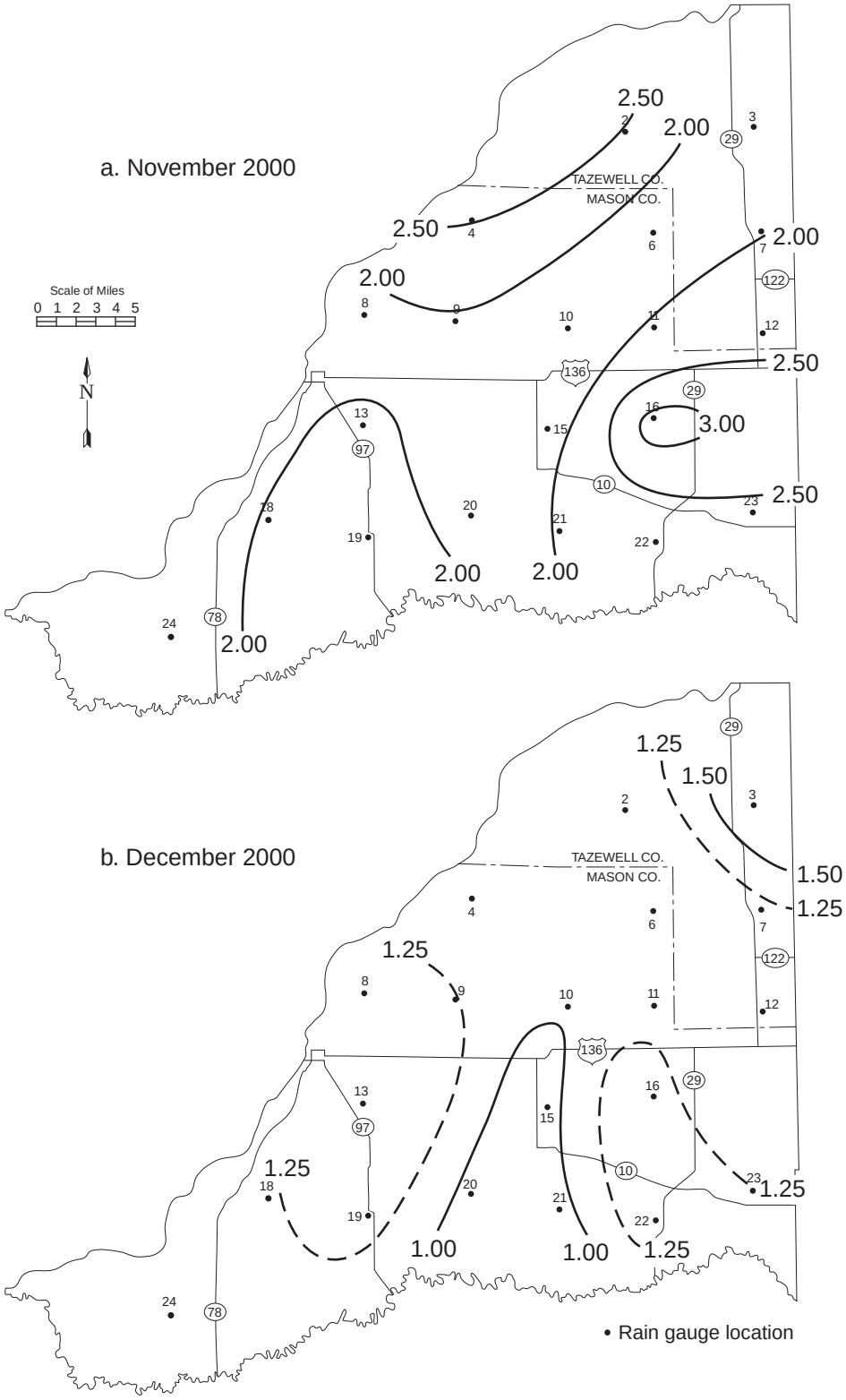

Figure 6. Precipitation (inches) for a) November 2000 and b) December 2000

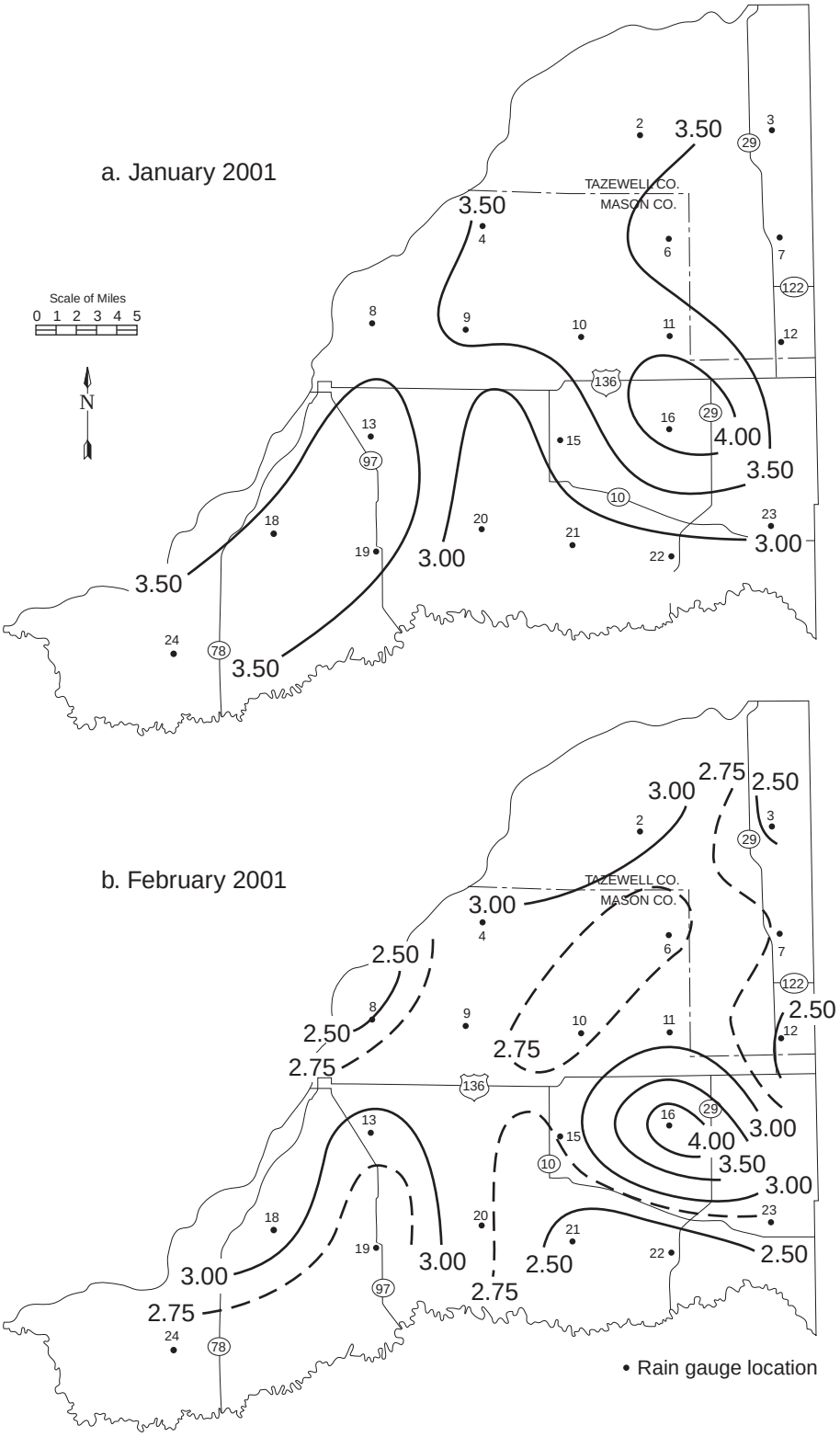

Figure 7. Precipitation (inches) for a) January 2001 and b) February 2001

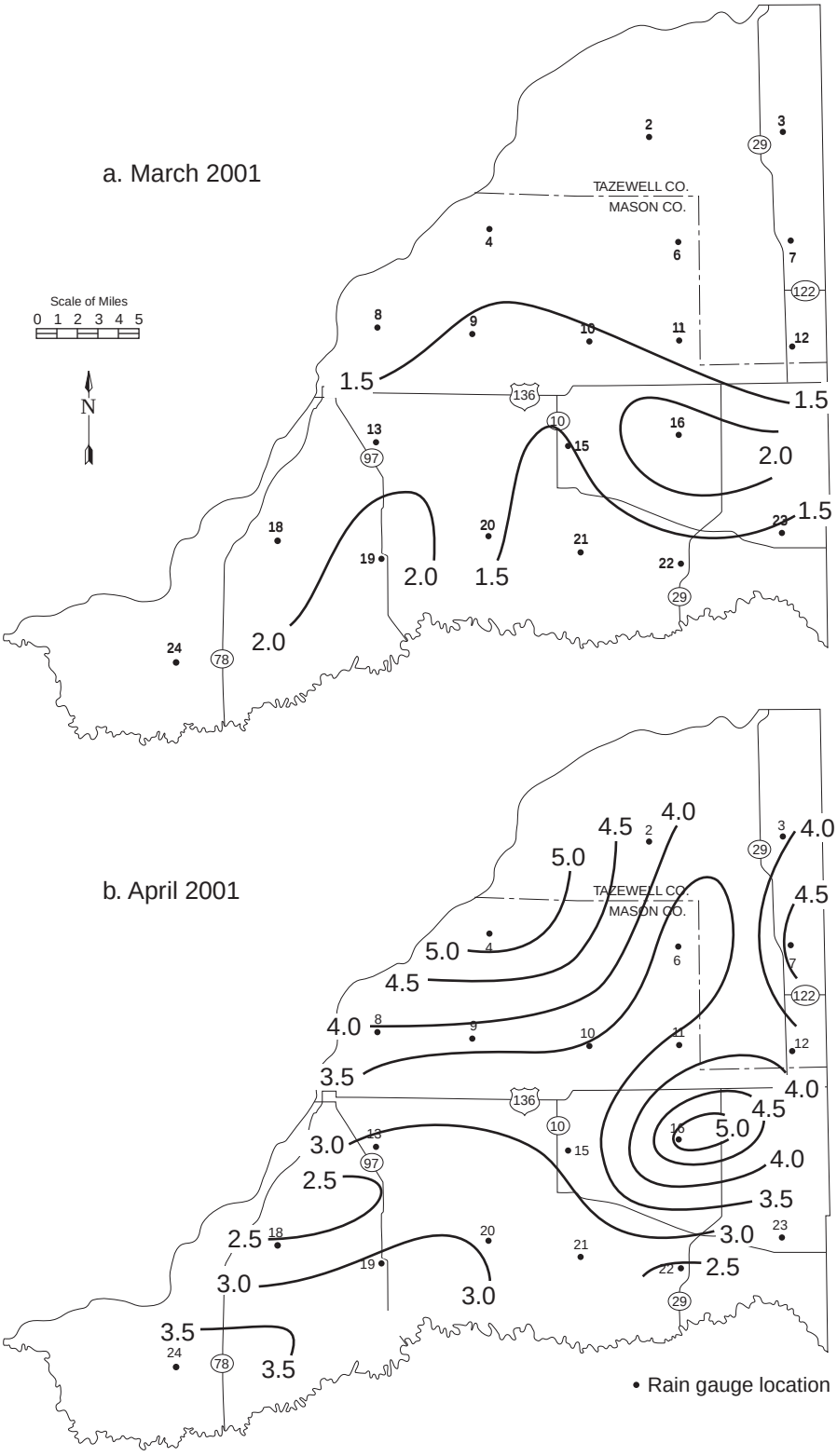

Figure 8. Precipitation (inches) for a) March 2001 and b) April 2001

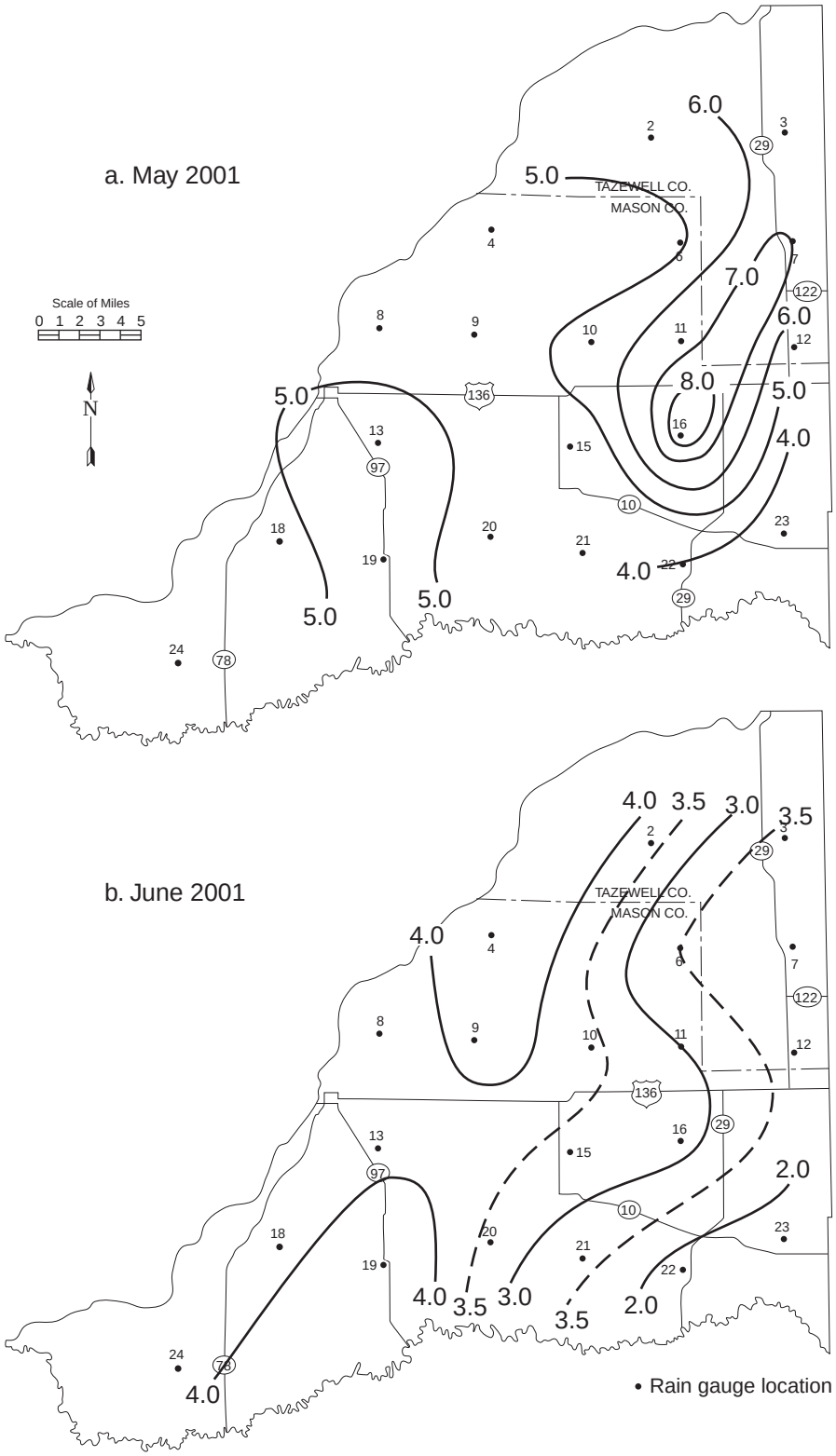

Figure 9. Precipitation (inches) for a) May 2001 and b) June 2001

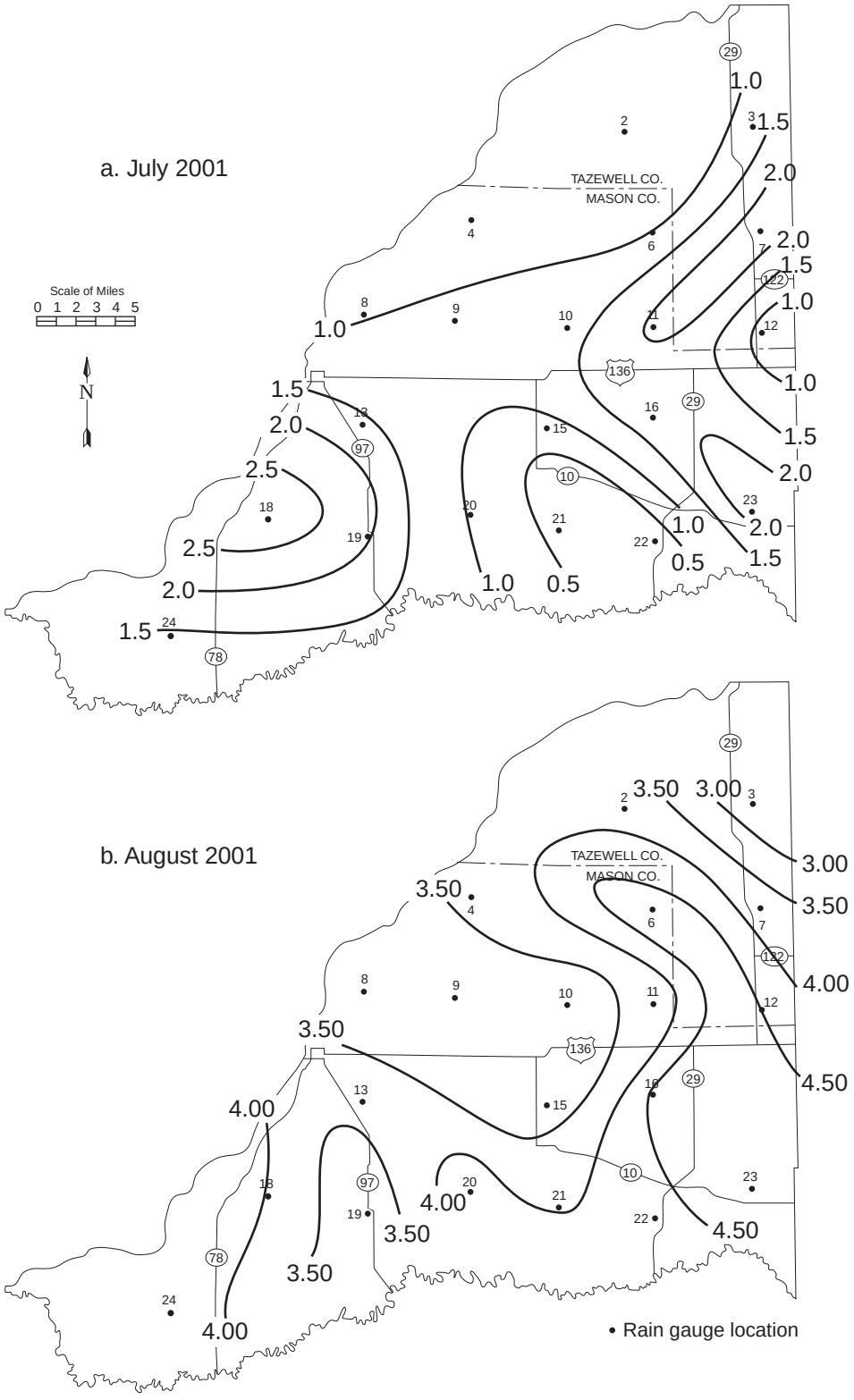

Figure 10. Precipitation (inches) for a) July 2001 and b) August 2001

Table 6. A Comparison of Average 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, 1992-2000 and 2000-2001

	1992-2000 Average					*2000-2001*				
Period	*Days*	*Events*	*Rainfall*	*In./Day*	*In./Event*	*Days*	*Events*	*Rainfall*	*In./Day*	*In./Event*
Sep	6.0	8.0	3.24	0.54	0.40	7.0	10.0	2.02	0.29	0.20
Oct	7.0	9.1	2.23	0.32	0.24	6.0	10.0	1.80	0.30	0.18
Nov	7.3	9.6	2.84	0.39	0.30	7.0	15.0	2.13	0.30	0.14
Dec	6.1	8.3	1.50	0.24	0.18	10.0	19.0	1.18	0.12	0.06
Jan	7.6	10.1	1.96	0.26	0.19	9.0	18.0	3.40	0.38	0.19
Feb	6.0	7.3	1.83	0.30	0.25	6.0	13.0	2.98	0.50	0.23
Mar	7.0	9.8	2.28	0.33	0.23	5.0	12.0	1.55	0.31	0.13
Apr	9.8	13.1	3.65	0.37	0.28	9.0	17.0	3.40	0.38	0.20
May	11.9	15.6	4.85	0.41	0.31	10.0	18.0	5.06	0.51	0.28
Jun	11.1	14.8	4.20	0.38	0.28	6.0	11.0	3.08	0.51	0.28
Jul	9.8	11.9	4.24	0.43	0.36	5.0	6.0	1.32	0.26	0.22
Aug	9.3	12.3	3.35	0.36	0.27	9.0	11.0	3.84	0.43	0.35
Autumn	20.3	26.8	8.31	0.41	0.31	20.0	35.0	5.96	0.30	0.17
Winter	19.8	25.6	5.29	0.27	0.21	25.0	50.0	7.56	0.30	0.15
Spring	28.6	38.5	10.78	0.38	0.28	24.0	47.0	10.01	0.42	0.21
Summer	30.1	38.9	11.79	0.39	0.30	20.0	28.0	8.24	0.41	0.29
Annual	98.8	129.8	36.17	0.37	0.28	89.0	160.0	31.77	0.36	0.20

year (10.01 inches) followed by summer (June - August, 8.24 inches). However, both seasons had totals below their corresponding eight-year network seasonal averages (departures of -0.77 and -3.55 inches, respectively). Winter precipitation totals (December 2000 - February 2001, 7.56 inches) and autumn amounts (September - November 2000, 5.96 inches) were smaller, as would be expected seasonally. However, winter was the only season in Year Nine with above average precipitation (+2.37 inches), while autumn possessed a -2.35-inch departure from the 9-year network average autumn precipitation.

Annual precipitation in 2000-2001 was the fourth driest of the nine years of network operation (Appendix VII). The network received 23.78 inches less precipitation than in the wettest year (1992-1993) and 6.07 inches more than in the driest year (1995-1996). Year Nine had the third driest autumn (1996-1997 and 1999-2000 were drier) and the second driest summer (only 1995-1996 was drier). However, it also included the second wettest winter (only 1992-1993 was wetter) and was the median spring for the nine years of measurements.

Year Nine reported 89 rain days, the second smallest number, surpassing only 1998-1999 (88 days). However, rain-day totals during the lowest six years are within six days of each other, indicating that this year was not exceptionally low in the number of days with rain. Even so, the 160 rain events in Year Nine were the most ever, considerably higher than in any other year.

Thus, given the low precipitation total for the year, the amount of precipitation per event was rather low, 0.20 inches, undercut only by the 0.18 inches of rain per event in 1999-2000. Data show that the highest number of rain events occurred in the first three years of the analysis with subsequent years showing lower event totals.

Seasonally, the number of rain days and rain events in winter of Year Nine were the highest of any other season (25 and 50, respectively). Nevertheless, due to the high event totals, all other seasons reported as much or more precipitation per event and per day. At the same time, rain days in the winter of Year Nine were the most frequent for any winter over the nine-year period, while spring 2001 rain days tied the totals in 1994 and 1999 for the lowest number of days (24), and summer 2001 recorded one more rain day, 20, than the year with the lowest total (1999). Rain events in winter 2000-2001 were far more than in any other year. Autumn and spring had 35 and 47 rain events, respectively, the second highest totals for each season, while summer reported 28 rain events, the second lowest total.

The plot of the network average precipitation time series (Figure 11) shows the monthly variation of rainfall. December had the smallest year-to-year precipitation variation (0.77 inches), as measured by the standard deviation of the monthly precipitation (not presented) over the nine observation years, followed closely by October (0.79 inches). September had the largest range (3.31 inches). The September 1992 - August 1993 month-to-month fluctuations in rainfall exhibited the widest variability, reflecting the great flood of 1993 over the central and western Midwest.

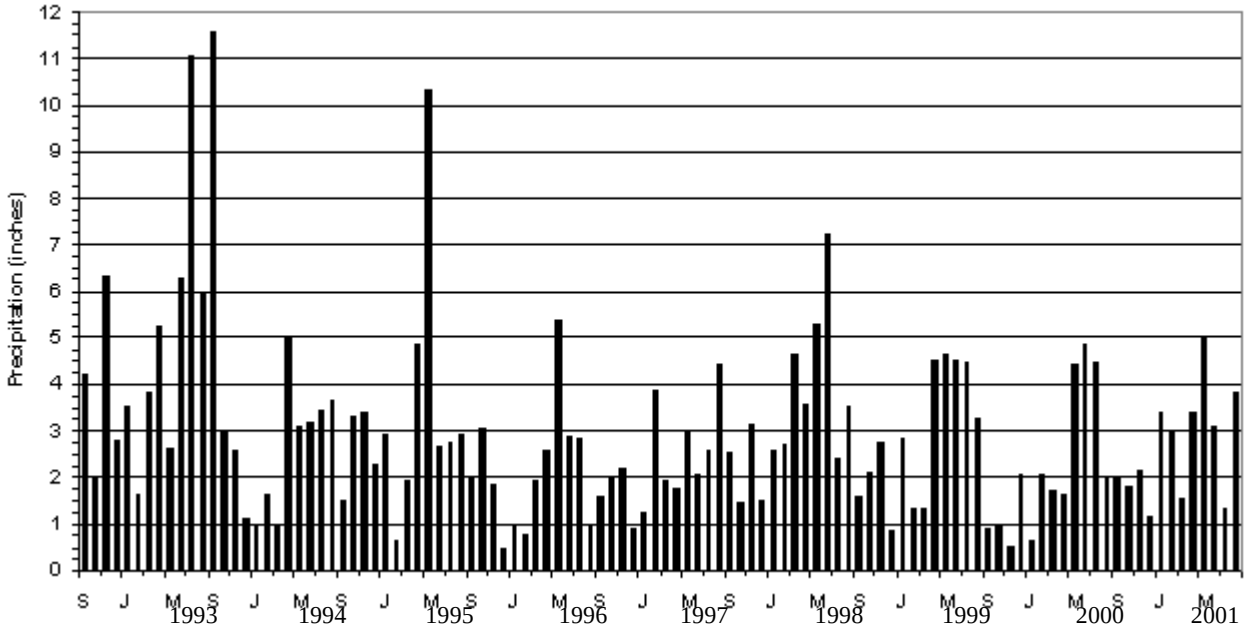

Figure 11. Time series of network average monthly precipitation, September 1992 to August 2001

September 2000 - August 2001 monthly fluctuations were the second smallest, surpassing only 1996-1997. Nevertheless, the trend of low ranges appears to be a typical pattern in stark contrast to the higher fluctuations observed in the initial three years of the program. Months with network average precipitation in excess of 8 inches, which occurred three times during the first three years of observations, have not occurred in any subsequent year. Indeed, May 2001with 5.06 inches was the first month with more than 5 inches of rain in the last three years. A graph of month-to-month variability (Appendix VI) presents monthly average precipitation for each of the 25 rain gauge sites during the first eight years of measurements, compared to Year Nine. Only three years of data are included for the five rain gauges removed from the network in 1995.

A total of 1180 network storm periods have occurred during the 9-year observation period:148 in 1992-1993, 102 in 1993-1994, 129 in 1994-1995, 98 in 1995-1996, 121 in 1996-1997, 134 in 1997-1998, 144 in 1998-1999, 156 in 1999-2000, and 148 in 2000-2001, resulting in a 9-year average of 131 storms per year. Appendix VIII documents each storm period with date and hour of the start, duration, number of stations receiving precipitation, network average rainfall, storm average precipitation, maximum precipitation received, the station (gauge) where the maximum occurred, and storm recurrence frequency of the maximum observed precipitation (Table VIII-2). The network average rainfall is the arithmetic mean of the rain received at all 20 or 25 stations, while the storm average is the arithmetic mean of the rain received at stations reporting rainfall during the storm period. 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 10 years at a given station, or have a 10 percent chance of occurring in any given year). Recurrence frequencies are recorded for the total storm period for the area. Also included in Appendix VIII is a table (Table VIII-3) showing each storm and the rainfall received at each of the 20 or 25 stations during that storm.

Forty-one of the 1180 storm periods produced maximum precipitation at one or more stations with a recurrence frequency greater than one year (Appendix Table VIII-1, after Huff and Angel, 1989): 50-year (1 storm), 10-year (3 storms), 5-year (6 storms), 2-year (18 storms), and greater than 1-year but less than 2-year (13 storms). The 50-year storm (storm 153) occurred on 13 September 1993, and the 10-year storms on 16 May 1995 (storm 323), 8 May 1996 (storm 432), and 19 July 1997 (storm 580). Two 5-year storms occurred in 1993 (storm 105 in June and storm 149 in September), the third (storm 327) in May 1995, the fourth (storm 862) in July 1999, the fifth (storm 872) in August 1999, and the sixth (storm 1006) in July 2000. There were nine storms in 1992-1993, five in 1993-1994, six in 1994-1995, one in 1995-1996, three in 1996-1997, four in 1997-1998, four in 1998-1999, five in 1999-2000, and four in 2000-2001 with a recurrence frequency greater than or equal to one year. The stations that exceed the one-year or more recurrence frequency are indicated in bold type in Appendix VIII, Table VIII-3, which shows the total precipitation for each storm period by station.

Correlation of Groundwater Levels with River Stage and Precipitation

Monthly groundwater level measurements in each well were correlated with total monthly precipitation at the nearest rain gauge(s) and/or the Illinois River stage by several different regression analyses. These analyses can be grouped as: a) precipitation lag regression

analysis, b) river stage lag regression analysis, c) accumulated precipitation regression analysis, and d) step-wise river stage/precipitation regression analysis.

Precipitation Lag Regression Analysis

To examine the timing of the delay in groundwater response to a single previous month's rainfall, the total precipitation for each month was "lagged" for a period from zero to four months and correlated to the observed groundwater level measurement for the month of the prescribed lag period. Best-fit equations were calculated based on both linear and exponential regressions. Examination of the observation well hydrographs (Appendix II) shows that, depending on the location of the well, the peak in a groundwater level hydrograph often lags behind the month with the greatest rainfall by a month or more. The precipitation lag regression analysis quantitatively defined which lag period between monthly precipitation and groundwater levels gave the best agreement, based on monthly observations. The measurement of groundwater levels only once per month limits the ability of such an analysis to examine potentially faster response times at some wells.

The results of such an analysis are summarized in Table 7. For each well, local precipitation was lagged from zero to four months, linear and exponential regressions were performed, and coefficients of determination (R^2) were calculated. The lag period with the highest coefficient of determination is marked with an asterisk, and the equations describing the best-fit line for that regression are provided. An example of the data and best-fit lines using the equations displayed for well MTOW-2 is shown in Figure 12. The variance explained by the linear and exponential equations is not significantly different; however, the exponential equation more accurately explains the physical response of groundwater levels to precipitation (as denoted by the greater coefficient of determination). The exponential equation suggests an upper plateau for groundwater depth, such as land surface, which seems more reasonable than the linear regression.

For most wells, the best correlations occur for a 1-month or 2-month lag in precipitation; that is, the groundwater level response follows precipitation by one to two months (Table 7). Wells with the best correlation to a 1-month lag in precipitation include MTOW-2, MTOW-5, MTOW-9, and MTOW-12. Wells with the best correlation to a 2-month lag in precipitation include MTOW-1, MTOW-3, MTOW-6, MTOW-7, MTOW-10, and MTOW-11. Well MTOW-8 correlated best with a 3-month lag.

The grouping of observation well response by precipitation lag period is essentially the same as the grouping described previously (Hollinger et al., 1999). However, almost all precipitation lag correlations presented in this report (Table 7) are lower than the previously calculated correlations, suggesting the predictive capability of this precipitation lag regression technique was not improved with three additional years of data.

Nevertheless, groundwater levels were significantly correlated (with 95% confidence) to lagged and unlagged precipitation. Observed monthly groundwater level measurements in four wells, MTOW-2, MTOW-5, MTOW-9, and MTOW-12, significantly correlated to precipitation in the same month (no lag). In the previous analysis (Hollinger et al., 1999), only well MTOW-2

Table 7. Results of Precipitation Lag Regression Analysis

Coefficients of determination, R^2 (%), for groundwater elevation (Y) vs. lagged precipitation (X)		*No lag*	*1- month lag*	*2-month lag*	*3-month lag*	*4-month lag*	*Best-fit equations for lag with greatest R^2*
MTOW-1	Linear	1.17	13.55*	22.33*	8.45*	0.25	Y = 37.99-0.3348X
	Exponential	1.21	13.71*	22.35*	8.21*	0.20	Y = exp(3.64-0.0091X)
MTOW-2	Linear	19.57*	39.18*	11.76*	0.03	3.59	Y = 11.85-0.7315X
	Exponential	15.86*	47.93*	11.21*	0.001	3.90	Y = exp(2.54-0.1033X)
MTOW-3	Linear	0.42	6.35*	11.23*	6.49*	2.55	Y = 17.21-0.4155X
	Exponential	0.43	8.52*	14.06*	7.44*	2.30	Y = exp(2.86-0.0355X)
MTOW-4	Linear	0.36	0.11	0.10	0.16	0.36	Y = 12.91-0.0764X
	Exponential	0.25	0.07	0.22	0.52	0.53	Y = exp(2.54-0.0084X)
MTOW-5	Linear	11.85*	17.21*	16.50*	1.88	2.47	Y = 33.15-0.9218X
	Exponential	12.02*	17.97*	17.55*	1.68	2.68	Y = exp(3.50-0.0322X)
MTOW-6	Linear	2.77	9.94*	20.07*	9.89*	2.08	Y = 18.34-0.4369X
	Exponential	2.60	10.76*	21.84*	10.69*	2.18	Y = exp(2.91-0.0274X)
MTOW-7	Linear	0.76	3.98	8.74*	3.98	1.07	Y = 16.48-0.3157X
	Exponential	0.68	5.09	10.08*	4.40	1.02	Y = exp(2.80-0.0233X)
MTOW-8	Linear	0.002	1.68	9.43*	11.45*	10.24*	Y = 23.81-0.3468X
	Exponential	0.004	1.69	10.01*	12.23*	10.58*	Y = exp(3.17-0.0159X)
MTOW-9	Linear	9.19*	30.46*	28.21*	3.05	1.85	Y = 14.35-0.721X
	Exponential	7.93*	34.97*	30.01*	2.57	2.51	Y = exp(2.69-0.0681X)
MTOW-10	Linear	2.27	5.18	6.54*	2.44	1.55	Y = 29.88-0.2381X
	Exponential	2.34	5.45	6.80*	2.55	1.61	Y = exp(3.40-0.0084X)
MTOW-11	Linear	0.001	3.12	10.74*	9.51*	6.56*	Y = 33.01-0.3877X
	Exponential	0.0001	3.30	11.55*	10.29*	6.82*	Y = exp(3.50-0.0131X)
MTOW-12	Linear	7.02*	15.29*	14.06*	4.65	0.16	Y = 14.69-0.3858X
	Exponential	7.12*	17.84*	15.52*	4.44	0.07	Y = exp(2.695-0.034X)
MTOW-13	Linear	0.0004	0.28	3.52	5.34	6.06	Y = 37.01-0.1764X
	Exponential	0.002	0.28	3.64	5.56	6.34	Y = exp(3.61-0.005X)

Note: *Coefficients of determination significant at $\alpha = 0.05$.

showed a significant correlation with unlagged precipitation. Observed monthly groundwater levels in seven wells significantly correlated to 1-month lagged precipitation, up from six wells in the previous analysis, and groundwater levels in 11 wells significantly correlated to 2-month lagged precipitation, up from 9 wells in the previous analysis. There was no change in the

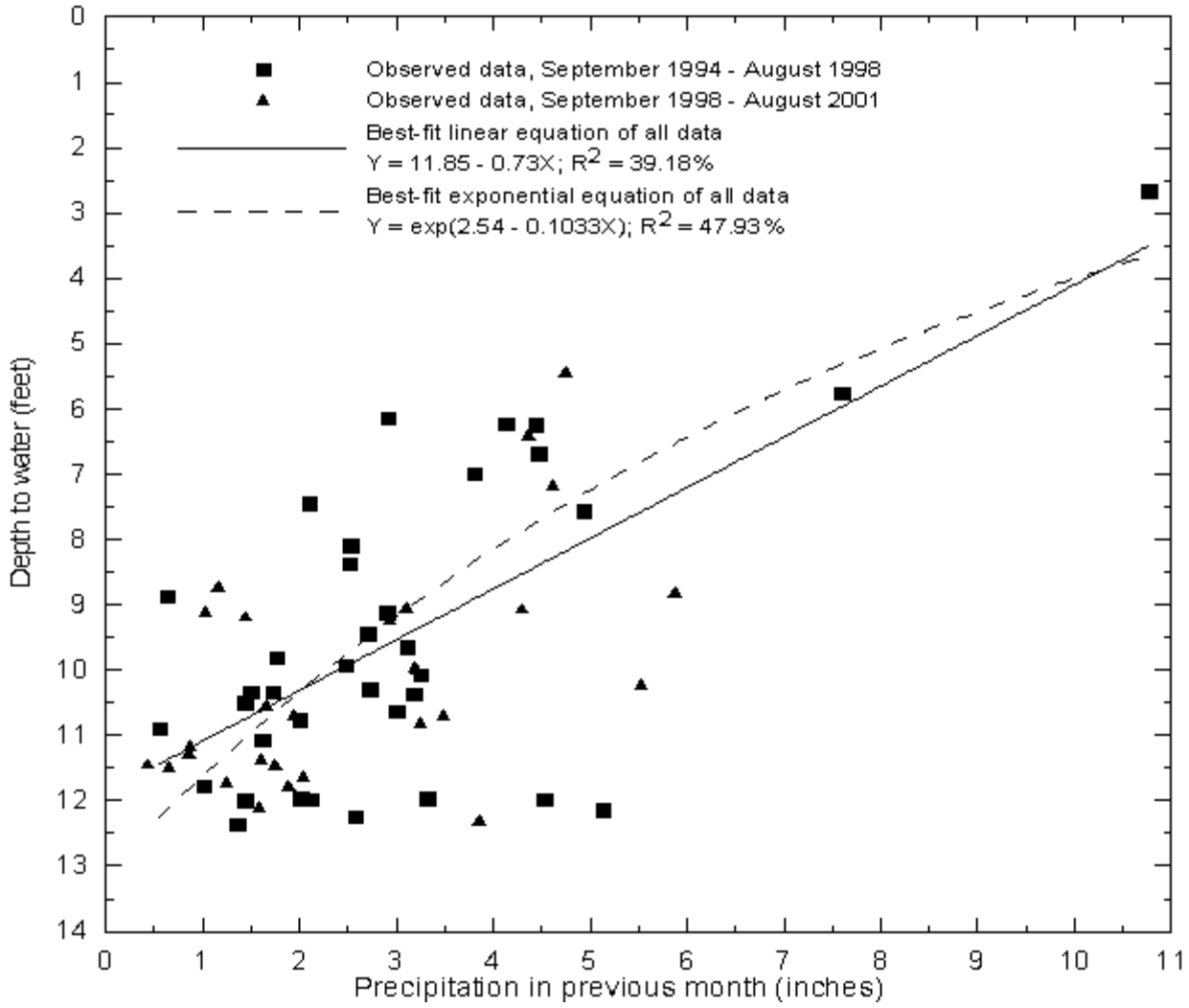

Figure 12. Observed data and best-fit linear and exponential equations for 1-month lagged precipitation versus groundwater levels in MTOW-2 (see Table 7)

number of observation wells that showed a significant correlation with 3-month (5 wells) and 4-month (2 wells) lagged precipitation from the previous analysis. In the current analysis, neither wells MTOW-4 nor MTOW-13 significantly correlated to precipitation lagged from zero to four months, compared to only well MTOW-4 in previous analyses. Both wells MTOW-4 and MTOW-13 are located in the northern part of the Imperial Valley study area, near the Jake Wolf Fish Hatchery. Groundwater withdrawals by the hatchery may be exerting a larger areal effect on groundwater/precipitation correlations than assumed previously.

These results indicate that groundwater levels are influenced by precipitation falling one to three months prior to the groundwater observation. This gives an indication of the length of time required for precipitation falling on the earth's surface to reach the water table within the Imperial Valley area.

River Stage Lag Regression Analysis

A similar analysis to the precipitation lag regression analysis was performed with river stage data for wells within 6 miles of the Illinois River (wells MTOW-1, MTOW-5, MTOW-7, and MTOW-9) and for two wells located more than 6 miles from the river (wells MTOW-2 and MTOW-12) to see how far inland the river may have an influence.

As with the previous analysis (Hollinger et al., 1999), the two wells closest to the river, MTOW-5 and MTOW-9, had the greatest correlations of all the wells to river stage (Table 8). For these two wells, groundwater levels correlated best to a 1-month river stage lag. Again, with only monthly measurements of groundwater levels, more rapid response times could not be evaluated. Correlations to river stage were much poorer at the other wells close to the Illinois River, MTOW-1 and MTOW-7. Well MTOW-1 correlated best with a 2-month lag and well MTOW-7 correlated best with a 2-month or 3-month lag, depending on which model (linear or exponential) is used. Except for well MTOW-9, the coefficients of determination calculated for this report were less than those calculated previously (Hollinger et al., 1999).

Of the wells included in this analysis, the two wells farthest from the river, MTOW-2 and MTOW-12, significantly correlated to Illinois River stage, and were correlated best at a 1-month river stage lag. In the previous analysis (Hollinger et al., 1999), the coefficients of determination for well MTOW-2 for 1-month lagged precipitation and 1-month lagged river stage were nearly equal (42-55% and 50-55%, respectively). The current analysis, using an additional 3 years of data, shows a better correlation to the 1-month lagged river stage (54-59%) than to the 1-month lagged precipitation (39-47%).

Table 8. Results of River Stage Lag Regression Analysis

Coefficients of determination, R^2 (%), for groundwater elevation (Y) vs. lagged river stage (X)		*No lag*	*1-month lag*	*2-month lag*	*3-month lag*	*4-month lag*	*Best-fit equations for lag with greatest R^2*
MTOW-1	Linear	4.33	26.00*	27.36*	12.14*	4.19	Y = 121.4 - 0.1952X
Beardstown	Exponential	4.43	26.29*	27.24*	11.89*	4.14	Y = exp(5.90-0.0053X)
MTOW-5	Linear	37.38*	70.43*	48.61*	16.75*	1.01	Y = 346.24 - 0.723X
Kingston	Exponential	37.50*	70.52*	47.53*	15.62*	0.78	Y = exp(14.18-0.025X)
MTOW-9	Linear	42.88*	81.13*	51.88*	17.36*	0.95	Y = 211.04-0.568X
Havana	Exponential	42.33*	79.57*	48.31*	14.91*	0.65	Y = exp(19.81-0.040X)
MTOW-7	Linear	1.65	6.68*	7.42*	7.91*	6.46*	Y = 74.88 - 0.1362X
Havana	Exponential	1.76	7.15*	7.81*	7.68*	5.89*	Y = exp(6.75-0.0092X)
MTOW-12	Linear	9.60*	19.99*	17.02*	11.85*	5.98*	Y = 95.37 - 0.1881X
Havana	Exponential	9.88*	20.62*	16.94*	10.85*	5.22	Y = exp(9.28-0.0154X)
MTOW-2	Linear	49.24*	58.83*	32.00*	11.16*	0.53	Y = 174.30 - 0.3782X
Havana	Exponential	45.30*	53.67*	26.17*	8.42*	0.44	Y = exp(22.11-0.046X)

Note: *Coefficients of determination significant at $\alpha = 0.05$.

Accumulative Precipitation Regression Analysis

Groundwater levels also were correlated with accumulated monthly precipitation, from 1 to 16 months, depending upon the well (Table 9). The coefficient of determination was computed using the precipitation total beginning with the current month, then adding the precipitation for the previous month, and computing a new coefficient of determination for that total. This procedure was repeated, adding the previous month's precipitation to the last period's total, and then performing linear and exponential regressions until the coefficient of determination had decreased for three consecutive periods. Successive decreases were taken to indicate that the greatest coefficient of determination was a true maximum and not a local maximum.

Depending on the well, the greatest coefficients of determination (R^2) varied from 3.76 to 57.71 (i.e., 4 to 58 percent of the variation in groundwater level could be explained by rainfall

Table 9. Results of Accumulative Precipitation Analysis

Accumulation period (months)	*Coefficients of determination, R^2 (%), for accumulated precipitation for Mason-Tazewell Observation Wells*												
	1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
1	1.21	15.86	0.43	0.25	12.02	2.6	0.68	0.004	7.93	2.34	7.E-5	19.69	0.002
2	11.38	47.24	5.71	0.04	25.21	9.85	4.22	0.52	31.66	7.06	1.81	19.21	0.18
3	27.92	51.13*	15.16	0.10	39.49*	24.53	11.12	4.64	53.35*	13.37	9.20	30.19	2.03
4	34.05*	38.91	22.09	0.51	36.61	33.91	15.36	11.57	47.61	15.24	17.47	31.96*	5.58
5	30.01	25.51	25.95	1.39	25.69	36.51	17.47	19.47	33.37	17.01	24.54	29.08	10.36
6	25.17	18.72	28.73	2.23	17.53	37.89	18.97	28.51	22.98	19.82	29.20	26.72	17.10
7	21.16	14.41	29.47	2.79	11.33	36.84	19.60	32.4	15.01	21.75	32.48	26.21	18.73
8			29.88	3.72		37.41	21.00	35.35		26.31	34.66		18.97
9			30.49*	3.76*		39.49	21.59*	35.75*		30.66	35.26		21.13
10			29.79	3.31		44.80	20.94	35.71		31.59	35.43*		25.78
11			26.38	2.84		48.02*	18.81	33.37		32.20*	33.74		37.07
12			20.61	1.75		46.08	15.05	28.53		29.13	29.76		50.41
13			13.55	0.45		41.01	11.01	21.98		24.36	23.42		57.71*
14													46.65
15													39.03
16													32.16

Note: * Denotes greatest coefficient of determination for that observation well.

accumulated over 3 to 13 months). Similar analysis in the previous study (Hollinger et al., 1999) showed a much better correlation (24 to 81 percent), but extended over 3 to 19 months. Five wells (MTOW-1, MTOW-2, MTOW-5, MTOW-9, and MTOW-12) had their greatest R^2 for 3 or 4 months accumulated precipitation. These same five wells showed good correlation to river stage (Table 8). The greatest R^2 in the rest of the wells occurred over an accumulated rainfall period from 9 to 13 months.

Step-Wise River Stage/Precipitation Regression Analysis

Step-wise regression is a statistical procedure that allows input of all the dependent variables, in this case, the lagged Illinois River stage and monthly precipitation, to determine which variable explains what portion of the variance in the groundwater levels. Use of this procedure helps remove any investigator bias regarding relative variable importance because the order in which independent variables are inserted into the statistical model will affect model outcome.

A step-wise regression analysis was conducted on six observation wells (Table 10). Wells MTOW-9, MTOW-12, and MTOW-2 lie along a line extending east from the Illinois River at Havana to Easton in the central part of Mason County. This was done to determine if the data would show a decreasing influence of river stage on groundwater levels with increased distance from the river. Wells MTOW-1, MTOW-5, and MTOW-7 also were selected for comparison

Table 10. Results of Step-Wise River Stage/Precipitation Analysis

Wells	*Step-wise regression*		*R^2 (%)*	*Adjusted R^2 (%)*	*Best-fit equations**
MTOW-5	1-month lag	Stage	71.8	71.4	GW = 343.113 - 0.716S
		Precipitation†	72.1	71.2	GW = 333.86 - 0.135P - 0.694S
MTOW-9	1-month lag	Stage Precipitation	83.6	83	GW = 193.48 + 0.219P + 0.415S
MTOW-1	2-month lag	Stage	26.9	25.4	GW = 120.963 - 0.194S
		Precipitation†	39.6	37.1	GW = 107.21 - 0.261P - 0.161S
MTOW-7	2-month lag	Stage	8.7	7.3	GW = 16.48 - 0.316S
		Precipitation†	10.8	7.9	GW = 48.60 - 0.240P - 0.074S
MTOW-12	1-month lag	Stage	19.9	18.5	GW = 92.66 - 0.182S
		Precipitation†	24.1	21.6	GW = 73.928 - 0.23P - 0.137S
MTOW-2	1-month lag	Stage Precipitation	68.9	67.9	GW = 140.12 - 0.392P - 0.297S

Notes: * GW = Calculated groundwater level, P = monthly precipitation, and S = river stage.

† Denotes that variable was "forced" into the regression. Best-fit equations are presented for unforced and forced variables. When both variables are unforced, only one best-fit equation is presented.

with the river stage regression analysis (Table 8). Results of the step-wise regression analysis of observation wells are presented in order of increasing distance from the Illinois River. Wells MTOW-5 and MTOW-9 are situated along the river; wells MTOW-1 and MTOW-7, 3 to 4 miles from the river; well MTOW-12, 6 miles from the river, and well MTOW-2, 13 miles from the river.

The equation that best describes the groundwater levels in well MTOW-5 is obtained from a 1-month lag in river stage. Forcing precipitation into the equation made no change in the correlation. With and without precipitation, R^2 was essentially equal, 71.4 to 71.2 percent, respectively. At well MTOW-9, a 1-month lag in river stage and precipitation provided a best-fit equation of groundwater levels. Most of the variation is expressed by river stage, first variable included in the step-wise regression; precipitation did not need to be forced into the equation. At both wells, MTOW-1 and MTOW-7, a 2-month lag in river stage forced with 2-month lagged precipitation provided the best fit with groundwater level observations. The relatively low R^2 values at these two wells, especially when compared with wells MTOW-5 and MTOW-9, suggests that the effects of other factors, such as irrigation withdrawals, are affecting groundwater levels at these locations. At wells MTOW-12 and MTOW-2, which are farther from the river than wells MTOW-1 and MTOW-7, the best-fit equation returns to a 1-month lag in stage and precipitation, with precipitation being forced at well MTOW-12. In all cases, river stage was selected first by the step-wise regression analysis, a change from the previous analysis (Hollinger et al., 1999) in which lagged precipitation was selected as the first variable for wells MTOW-7 and MTOW-12. Wells MTOW-1 and MTOW-5 were not included in the previous step-wise regression analysis.

Summary

Groundwater levels tend to peak in most wells in the Imperial Valley during June and July, then decline in August and September. This decline is a result of irrigation season pumpage during the highest crop water demands from July through mid-September. The period of record for the observation wells (1994-2001) started with relatively high groundwater levels, a result of the extremely wet spring and summer of 1993 when groundwater levels rose to an all-time high. Groundwater levels declined in subsequent years until 1998. The 1998 recovery and leveling off in 1999 mark the return of groundwater to more normal levels and seasonal fluctuations.

The ninth year of the rain gauge network operation (September 2000-August 2001) was the fourth driest year. It had the fourth driest autumn (September-November) and the second driest summer (June-August), but it also included the second wettest winter (December-February) and the median spring (March-May) of the nine years of measurements. The wet summer resulted in groundwater levels leveling off during August through September instead of continuing to decline. This shows the importance of the timing of precipitation to maintain groundwater levels.

Statistical analysis of the relationship between groundwater levels and precipitation showed a one- to two-month lag from the time rainfall is received at the surface of the earth to the time that it is observed in groundwater levels. For wells near the Illinois River, river stage plays an important role in groundwater levels. In those wells, only a one-month lag exists

between river stage and groundwater level response. The analysis also revealed an unusual response to river stage at well MTOW-2 near Easton. Additional data and analysis are needed to determine if the observation of the groundwater level response at well MTOW-2 to the Illinois River stage is real, or whether it is a result of another influence, such as Crane Creek. While the statistical analyses show significant correlations between the groundwater levels and precipitation and/or the Illinois River stage, a longer record of data did not improve the correlation estimates of Hollinger et al. (1999).

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Appendix I: Soil Legend

NEARLY LEVEL TO STEEP, EXCESSIVELY DRAINED TO WELL DRAINED, SANDY AND LOAMY SOILS; ON STREAM TERRACES AND DUNES

Plainfield-Bloomington association
Sparta-Plainfield-Ade association
Onarga-Dakota-Sparta association

NEARLY LEVEL, POORLY DRAINED, LOAMY AND SILTY SOILS; ON STREAM TERRACES

Marshan-Udolpho association
Selma-Harpster association

NEARLY LEVEL TO SLOPING, WELL DRAINED, SOMEWHAT POORLY DRAINED, AND POORLY DRAINED, SILTY SOILS; ON UPLANDS AND STREAM TERRACES

Elburn-Plano-Thorp association
Broadwell-Edgington-Pillot association
Tama-Ipava association

NEARLY LEVEL TO STEEP, WELL DRAINED AND SOMEWHAT EXCESSIVELY DRAINED, SILTY, LOAMY, AND SANDY SOILS; ON UPLANDS

Fayette-Alvin-Bloomfield association

NEARLY LEVEL, POORLY DRAINED AND SOMEWHAT POORLY DRAINED, SILTY SOILS; ON FLOOD PLAINS

Beaucoup-Dockery association

Source: Calsyn, 1995

Appendix II: Observation Well Hydrographs

This appendix shows the hydrographs of the groundwater levels in each of the Imperial Valley observation wells, precipitation from the nearest rain gauge or group of gauges from the Imperial Valley rain gauge network and, where appropriate, Illinois River stage near the observation well. A table of the observed groundwater levels in each well for the period of record is also provided at the end of this appendix.

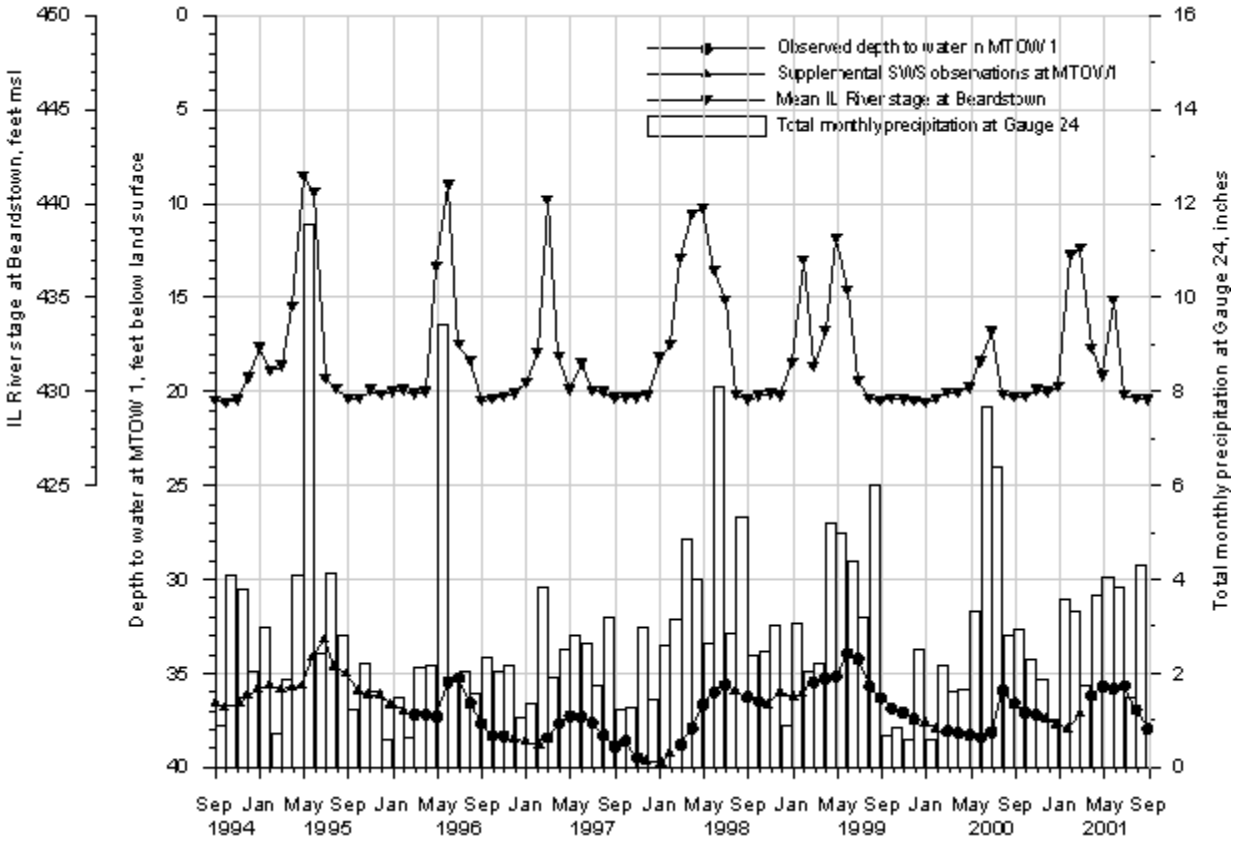


Figure II-1. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-1.

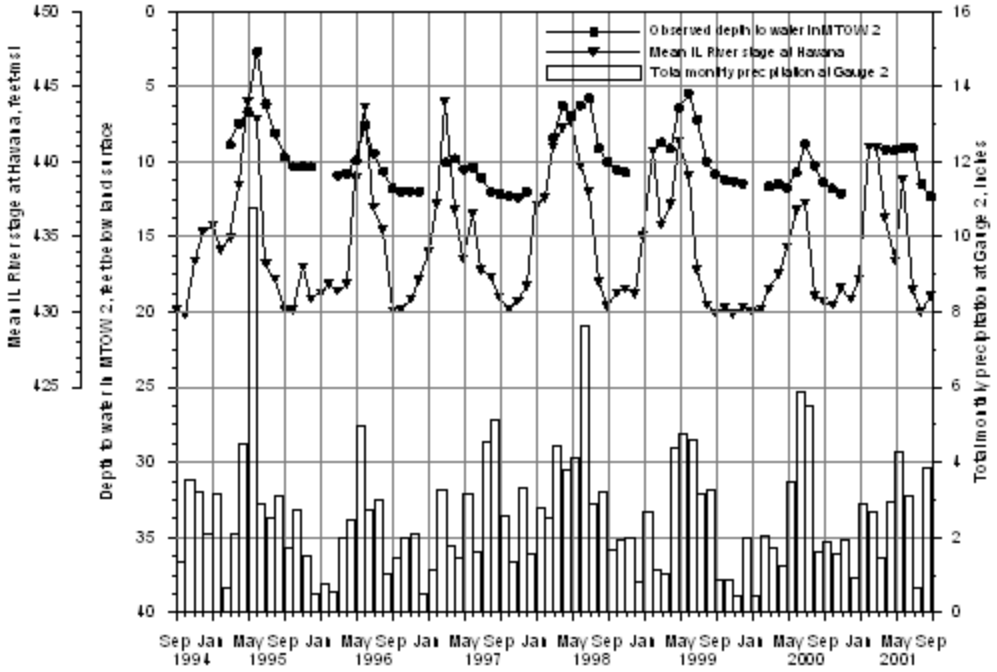


Figure II-2. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-2

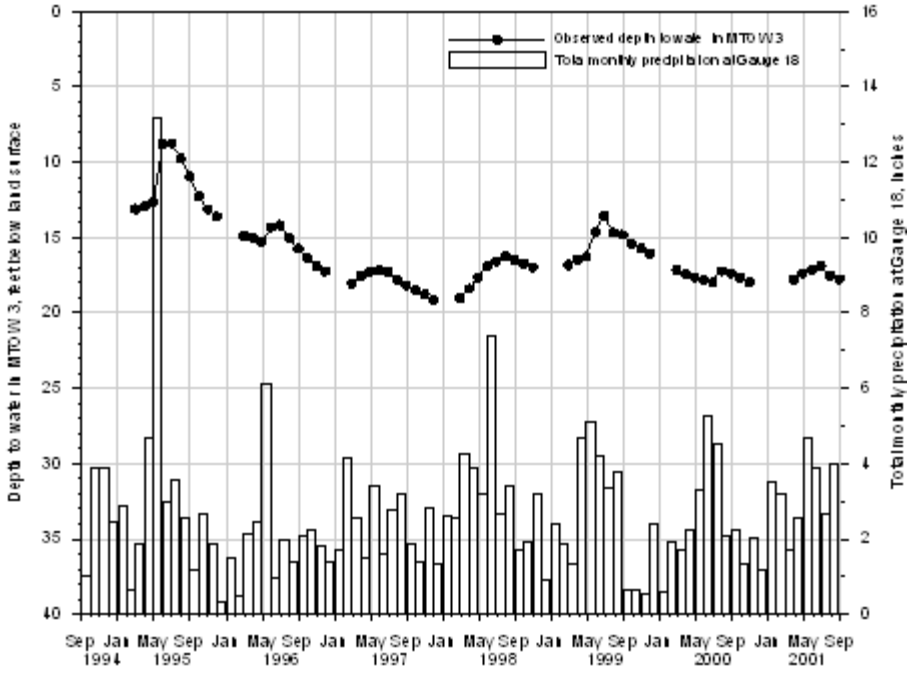


Figure II-3. Groundwater depth and monthly precipitation for well MTOW-3

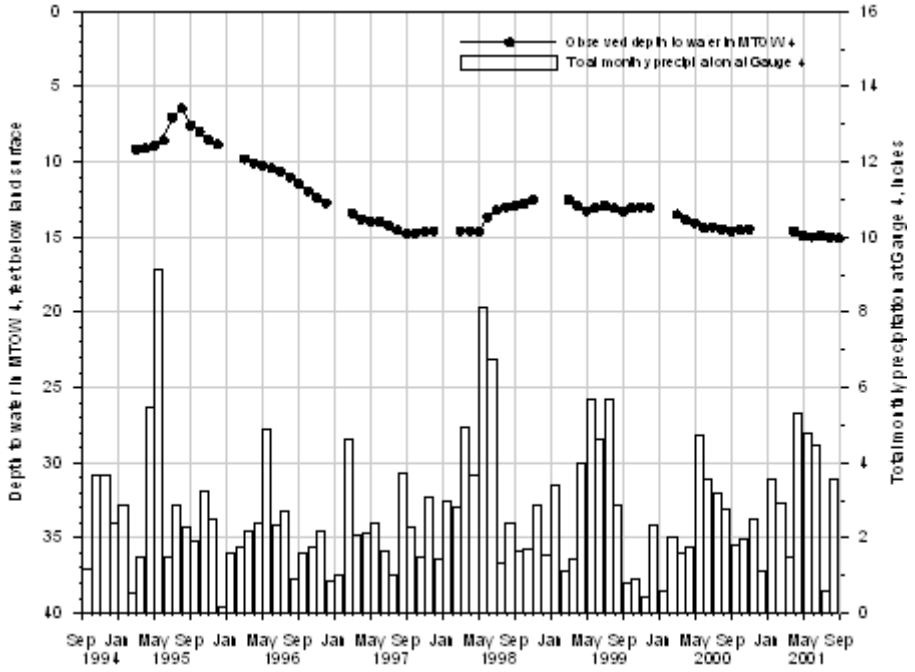


Figure II-4. Groundwater depth and monthly precipitation for well MTOW-4

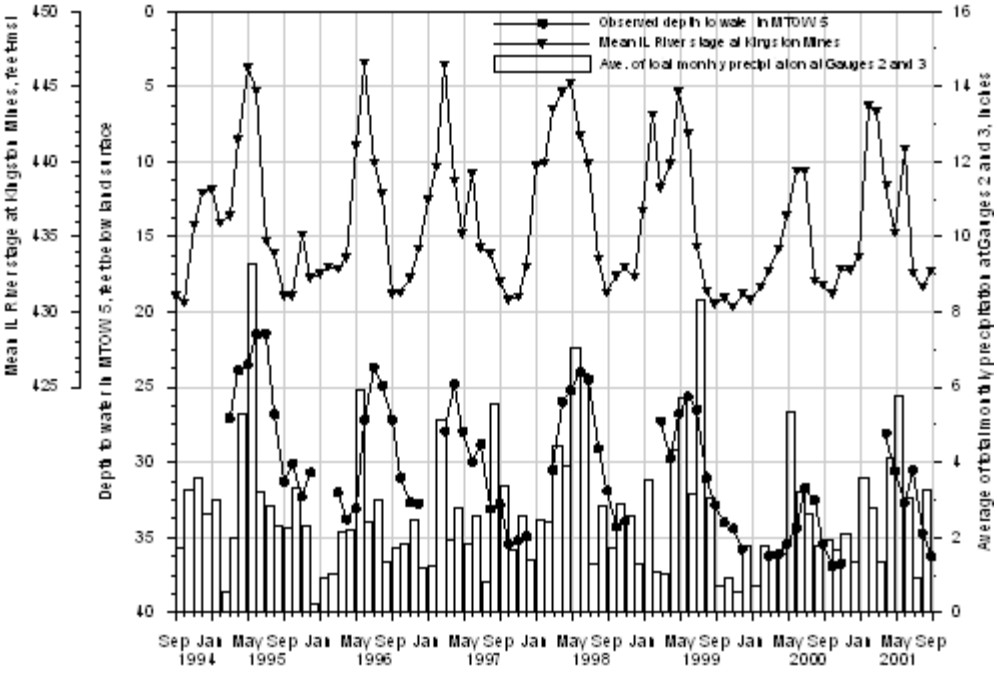


Figure II-5. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-5

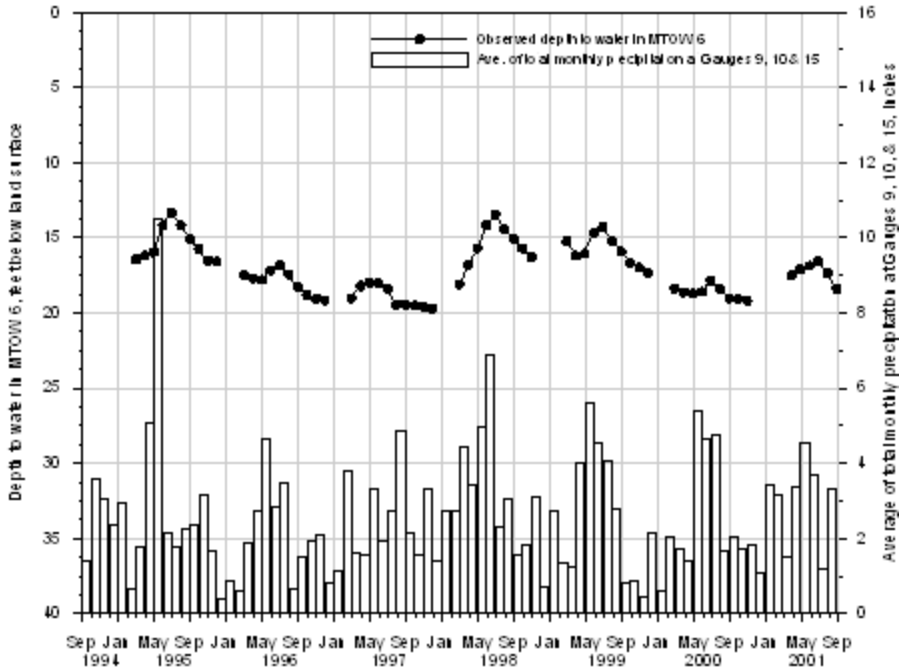


Figure II-6. Groundwater depth and monthly precipitation for well MTOW-6

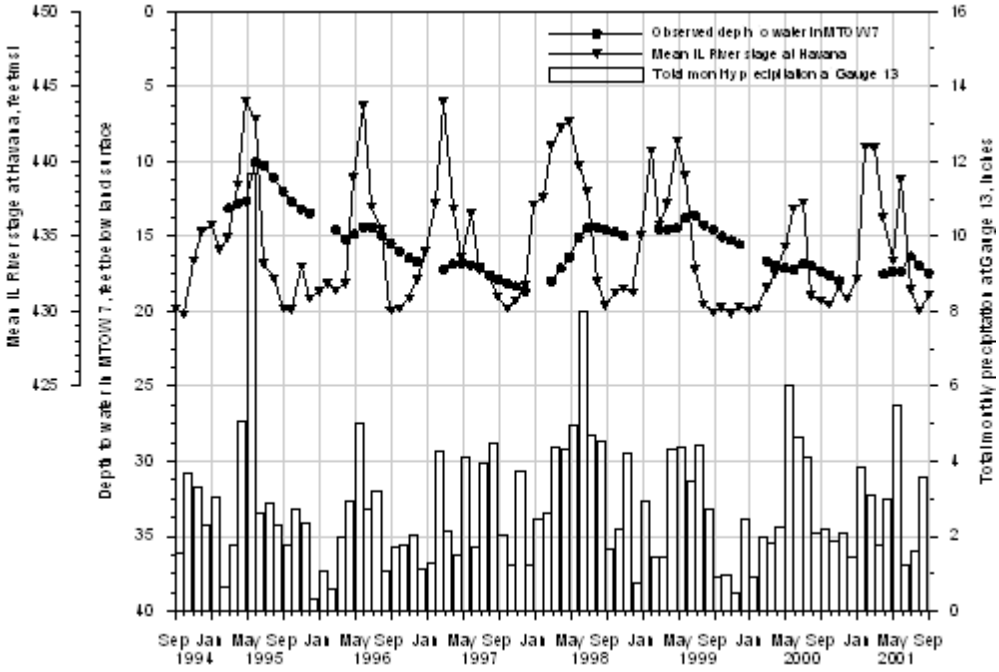


Figure II-7. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-7

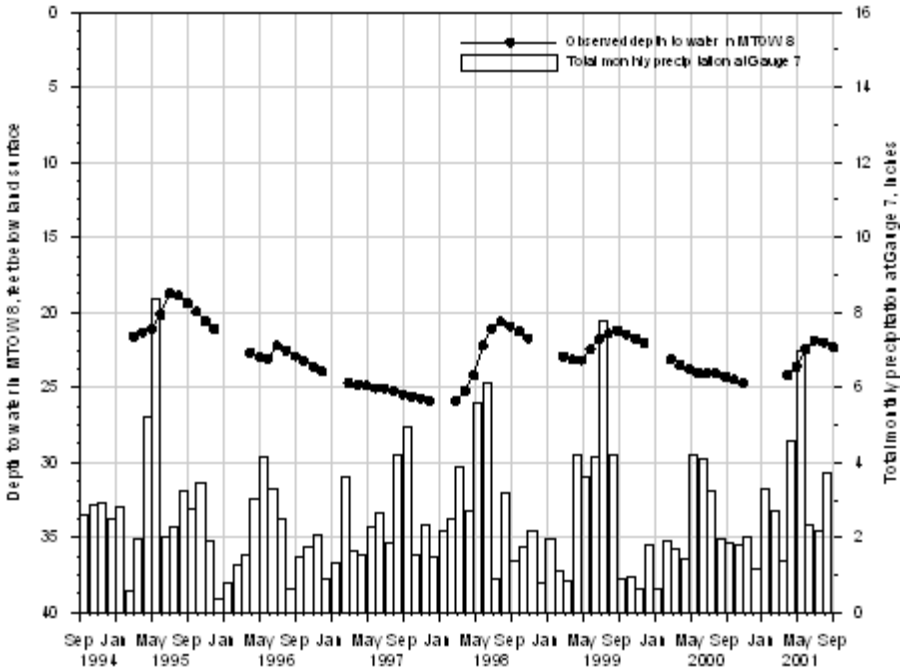


Figure II-8. Groundwater depth and monthly precipitation for well MTOW-8

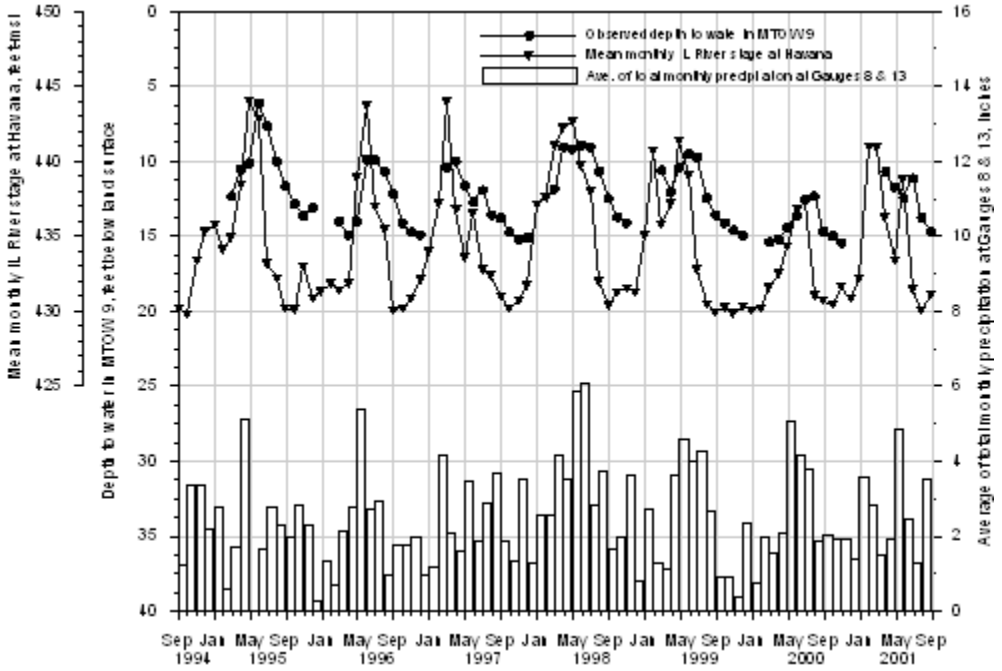


Figure II-9. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-9

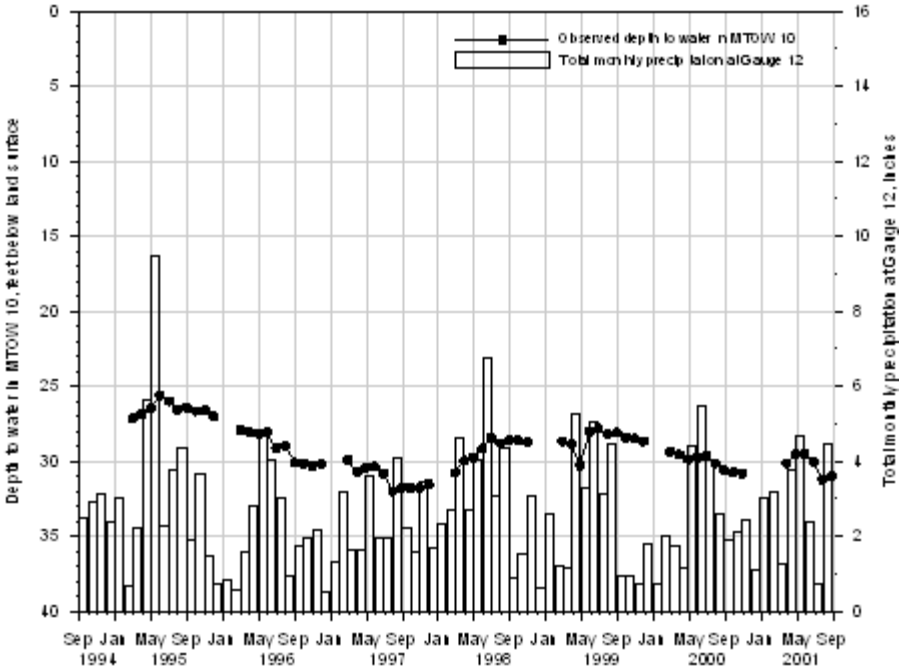


Figure II-10. Groundwater depth and monthly precipitation for well MTOW-10

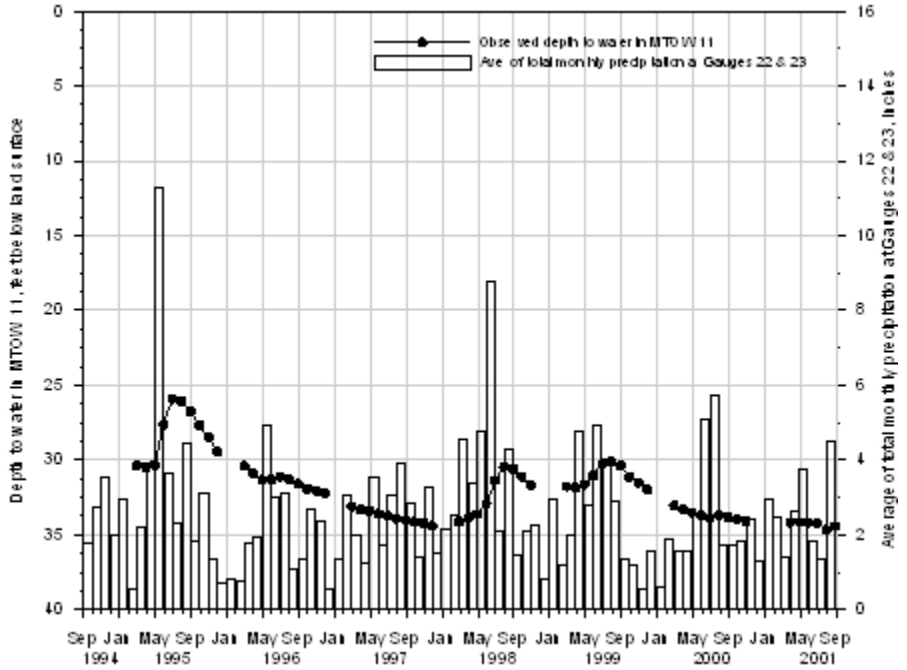


Figure II-11. Groundwater depth and monthly precipitation for well MTOW-11

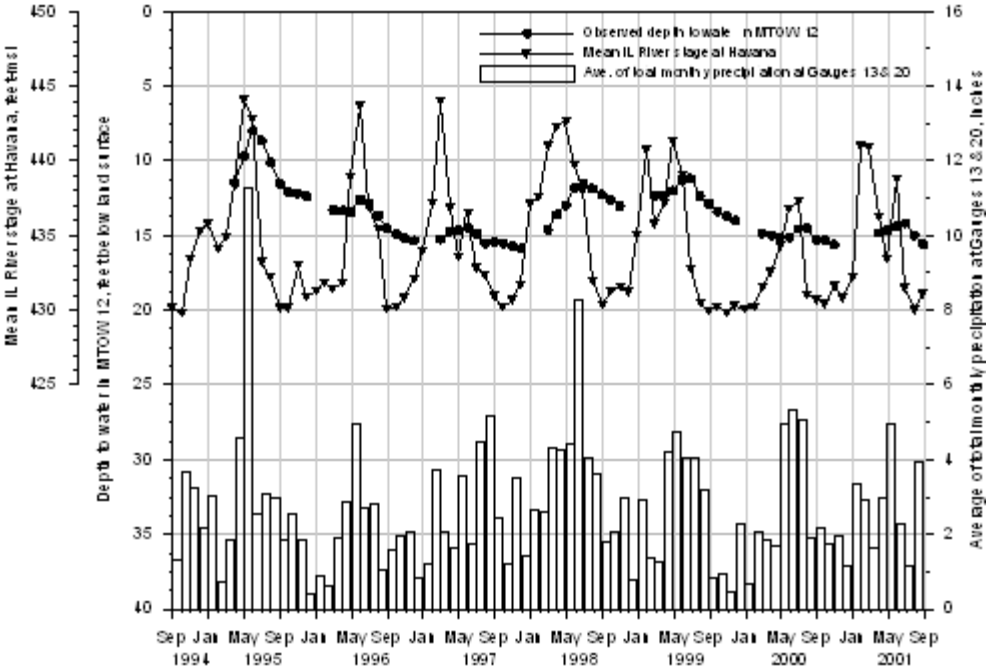


Figure II-12. Groundwater depth, monthly precipitation, and Illinois River stage for well MTOW-12

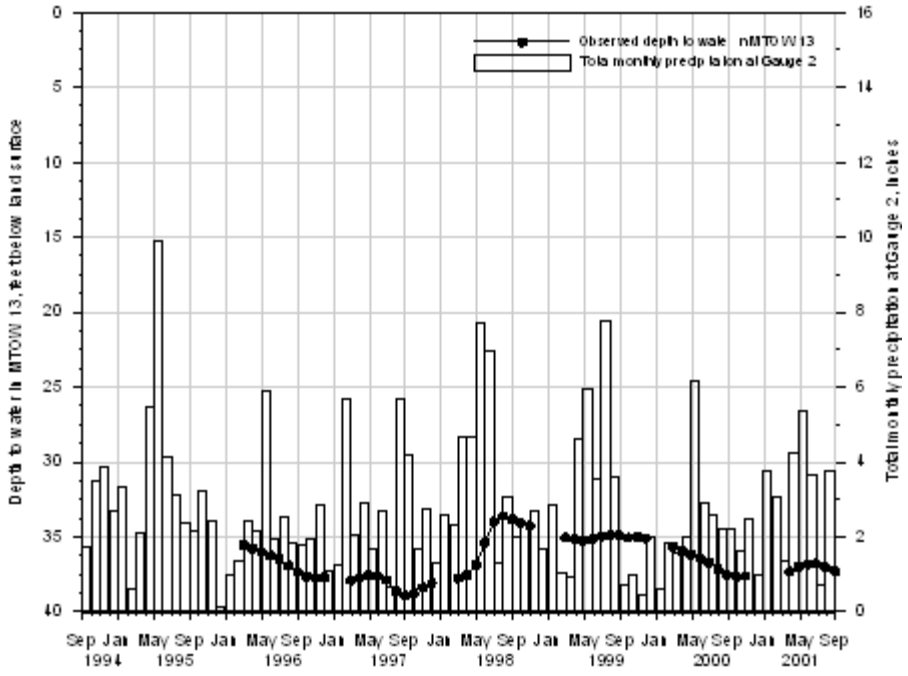


Figure II-13. Groundwater depth and monthly precipitation for well MTOW-13

Table II-1. Observed Groundwater Levels in the Imperial Valley Observation Wells

	Depth to Water (feet below land surface) at Imperial Valley Observation Wells												
Date	*MTOW-1*	*MTOW-2*	*MTOW-3*	*MTOW-4*	*MTOW-5*	*MTOW-6*	*MTOW-7*	*MTOW-8*	*MTOW-9*	*MTOW-10*	*MTOW-11*	*MTOW-12*	*MTOW-13*
3-01-1995	-.--	8.88	13.11	*9.15*	27.06	16.45	13.15	*21.62*	12.54	*27.14*	30.38	-.--	-.--
4-01-1995	-.--	7.45	12.94	9.12	23.87	16.20	12.82	21.31	10.52	26.84	*30.48*	11.49	-.--
5-01-1995	-.--	6.69	12.65	8.92	23.50	15.95	12.63	21.09	10.12	26.48	30.32	9.67	-.--
5-15-1995	-.--	3.50	10.50	8.78	22.67	15.16	11.12	20.80	11.12	25.93	28.76	**7.97**	-.--
6-01-1995	-.--	**2.67**	8.80	8.57	21.50	14.17	10.07	20.16	6.12	**25.60**	27.67	8.00	-.--
6-15-1995	-.--	4.51	**8.07**	7.64	**18.24**	**13.15**	**9.74**	19.03	**5.26**	25.79	26.11	8.68	-.--
7-01-1995	-.--	6.15	8.74	7.03	21.43	13.31	10.30	18.73	7.66	25.97	25.88	8.64	-.--
7-15-1995	-.--	6.10	9.08	6.87	24.49	13.60	10.52	**18.69**	8.80	25.90	**25.68**	9.71	-.--
8-01-1995	-.--	8.10	9.77	**6.47**	26.82	14.17	11.11	18.87	9.98	26.55	26.05	10.13	-.--
8-15-1995	-.--	8.80	10.38	7.33	30.47	14.67	11.41	19.12	11.21	26.01	26.45	11.12	-.--
9-01-1995	-.--	9.65	10.96	7.58	31.28	15.11	12.00	19.40	11.65	26.42	26.79	11.52	-.--
9-15-1995	-.--	10.19	11.65	7.82	31.93	15.47	12.44	19.66	12.24	26.57	27.22	11.86	-.--
10-01-1995	-.--	10.35	12.27	7.99	30.09	15.76	12.69	19.94	12.84	26.64	27.69	12.12	-.--
10-15-1995	-.--	*10.40*	12.81	8.17	*32.79*	16.05	12.95	20.21	13.29	26.75	28.02	12.13	-.--
11-01-1995	-.--	10.30	13.12	8.55	32.30	16.50	13.19	20.60	*13.63*	26.61	28.47	12.17	-.--
12-01-1995	-.--	10.35	*13.62*	8.85	30.70	*16.60*	*13.45*	21.10	13.09	27.00	29.43	*12.39*	-.--
3-01-1996	37.18	10.90	14.89	**9.80**	32.00	17.47	14.58	-.--	13.98	**27.90**	**30.40**	13.30	**35.52**
4-01-1996	37.19	10.77	15.01	10.07	*33.77*	17.70	15.20	22.67	14.90	28.07	30.92	13.34	35.76
5-01-1996	37.28	9.93	15.27	10.24	33.05	17.80	14.88	22.97	14.02	28.14	31.33	13.47	36.00
5-15-1996	-.--	8.84	14.97	10.34	32.04	17.63	14.72	23.09	12.90	28.14	31.36	13.03	36.08
6-01-1996	35.45	**7.57**	14.31	10.43	27.17	17.14	14.38	23.08	9.85	28.04	31.33	12.58	36.25
6-15-1996	-.--	7.62	**14.07**	10.44	**23.36**	**16.78**	**14.25**	22.76	**8.64**	28.01	31.17	**12.54**	36.32
7-01-1996	**35.23**	9.45	14.17	10.64	23.69	16.85	14.40	**22.20**	9.90	29.10	31.09	12.88	36.47
7-15-1996	-.--	10.20	14.65	10.82	25.20	17.38	14.72	22.35	10.51	29.14	31.31	13.37	36.70
8-01-1996	36.58	10.63	15.01	11.00	24.90	17.42	14.95	22.52	10.69	28.97	31.33	13.65	36.92
8-15-1996	-.--	11.30	15.39	11.21	24.41	18.00	15.18	22.69	10.72	30.22	31.45	14.07	37.14
9-01-1996	37.68	11.78	15.75	11.48	27.17	18.29	15.48	22.90	12.20	30.07	31.61	14.55	37.30
9-15-1996	-.--	*12.02*	16.12	11.75	29.16	18.72	15.82	23.09	13.55	30.22	31.85	14.81	37.50
10-01-1996	*38.32*	12.00	16.35	11.95	31.00	18.80	16.00	23.24	14.12	30.12	31.93	14.89	37.63
11-01-1996	38.32	11.97	16.89	12.42	32.66	19.04	16.43	23.60	14.73	*30.30*	32.06	15.19	*37.73*
12-01-1996	-.--	11.99	*17.23*	*12.73*	32.74	*19.15*	*16.72*	*23.91*	*14.90*	30.20	*32.22*	*15.36*	37.71

Note: Bold numbers are the shallowest groundwater levels for the calendar year; *italic* numbers are the deepest groundwater levels. Shaded areas distinguish between years.

Table II-1 (Continued)

Depth to Water (feet below land surface) at Imperial Valley Observation Wells

Date	*MTOW-1*	*MTOW-2*	*MTOW-3*	*MTOW-4*	*MTOW-5*	*MTOW-6*	*MTOW-7*	*MTOW-8*	*MTOW-9*	*MTOW-10*	*MTOW-11*	*MTOW-12*	*MTOW-13*
3-01-1997	38.41	10.07	18.05	**13.40**	27.94	19.00	17.18	**24.70**	10.43	**29.90**	**33.10**	15.24	37.87
4-01-1997	37.67	**9.87**	17.53	13.84	**24.80**	18.20	16.86	24.80	**10.00**	30.70	33.33	14.71	37.75
5-01-1997	**37.27**	10.50	17.27	13.95	27.95	**17.98**	**16.78**	24.88	11.62	30.42	33.40	14.65	**37.56**
6-01-1997	37.32	10.38	**17.17**	13.98	29.98	18.02	16.90	25.03	12.71	30.34	33.61	**14.45**	37.60
6-15-1997	-.--	-.--	-.--	-.--	-.--	-.--	-.--	-.--	-.--	31.45	-.--	-.--	-.--
7-01-1997	37.63	11.08	17.29	14.22	28.78	18.38	17.06	25.05	11.95	31.80	33.73	14.85	37.86
7-15-1997	-.--	11.54	17.45	14.35		19.00	17.24	25.12	12.67	31.45	33.78	15.17	38.15
8-01-1997	38.28	11.98	17.77	14.56	33.10	19.44	17.57	25.25	13.57	*31.99*	33.90	15.52	38.59
8-15-1997	-.--	12.19	17.94	14.68	33.70	19.55	17.74	25.35	14.07	31.79	33.97	15.37	38.84
9-01-1997	38.90	12.15	18.17	*14.80*	32.78	19.45	17.89	25.44	13.80	31.74	34.03	15.45	*38.92*
10-01-1997	38.59	12.25	18.51	14.75	*35.43*	19.51	18.14	25.58	14.72	31.77	34.14	15.52	38.75
11-01-1997	*39.46*	*12.36*	18.77	14.64	35.20	19.55	18.35	25.72	*15.24*	31.78	34.23	15.70	38.38
12-01-1997	-.--	11.97	*19.11*	14.60	34.95	*19.70*	*18.65*	*25.90*	15.10	31.51	*34.41*	*15.87*	38.08
3-01-1998	*38.78*	8.38	*19.04*	*14.59*	30.50	*18.10*	*17.98*	*25.88*	11.84	*30.77*	*34.13*	*14.61*	*37.75*
4-01-1998	37.91	6.25	18.41	14.58	25.95	16.78	17.14	25.21	9.04	29.95	33.85	13.61	37.52
5-01-1998	36.67	7.00	17.65	14.64	25.21	15.70	16.38	24.20	9.20	29.73	33.63	12.97	36.85
6-01-1998	36.00	6.23	16.92	13.66	**24.02**	14.18	15.08	22.22	**8.95**	29.15	32.93	11.82	35.38
7-01-1998	**35.61**	**5.77**	16.57	13.24	24.50	**13.47**	**14.40**	21.08	9.05	**28.40**	31.36	**11.55**	33.98
8-01-1998	-.--	9.13	**16.27**	13.00	29.10	14.42	14.40	**20.60**	10.65	28.79	**30.47**	11.87	**33.60**
9-01-1998	36.24	10.00	16.52	12.95	31.90	15.08	14.58	20.90	12.48	28.60	30.58	12.25	33.82
10-01-1998	36.48	10.55	16.72	12.78	*34.30*	15.68	14.72	21.25	13.70	28.60	31.10	12.65	34.07
11-01-1998	-.--	*10.70*	16.97	**12.55**	33.93	16.30	15.00	21.70	*14.10*	28.70	31.69	13.02	34.24
3-01-1999	35.48	8.74	*16.82*	**12.50**	27.25	15.22	14.54	22.92	10.61	28.67	31.75	12.31	35.03
4-01-1999	35.26	9.13	16.47	12.95	29.74	16.20	14.54	23.13	12.05	28.83	*31.85*	12.29	35.15
5-01-1999	35.16	6.42	16.27	13.25	26.73	16.06	14.48	*23.17*	10.38	*30.28*	31.63	12.01	*35.25*
6-01-1999	**33.95**	**5.45**	14.63	13.05	**25.64**	14.70	13.74	22.45	**9.54**	28.00	31.03	11.27	35.15
7-01-1999	34.23	7.19	**13.56**	12.90	26.50	**14.30**	**13.60**	21.74	9.74	**27.80**	30.23	**11.20**	34.94
8-01-1999	35.68	9.98	14.69	13.10	31.03	15.20	14.24	21.40	12.45	28.17	**30.11**	12.35	34.90
9-01-1999	36.30	10.82	14.83	*13.30*	32.84	15.92	14.55	**21.18**	13.56	28.10	30.37	12.85	**34.88**
10-01-1999	*36.87*	11.18	15.40	13.09	34.00	16.64	15.02	21.44	14.10	28.39	31.13	13.41	35.06
11-01-1999	-.--	11.30	15.71	13.00	34.42	17.00	15.28	21.72	14.60	28.50	31.51	13.69	35.00
12-01-1999	*37.43*	*11.45*	16.05	13.05	*35.79*	*17.35*	*15.55*	22.04	*14.91*	28.65	*31.97*	*14.01*	35.08

Note: Bold numbers are the shallowest groundwater levels for the calendar year; *italic* numbers are the deepest groundwater levels. Shaded areas distinguish between years.

Table II-1 (Concluded)

	Depth to Water (feet below land surface) at Imperial Valley Observation Wells												
Date	*MTOW-1*	*MTOW-2*	*MTOW-3*	*MTOW-4*	*MTOW-5*	*MTOW-6*	*MTOW-7*	*MTOW-8*	*MTOW-9*	*MTOW-10*	*MTOW-11*	*MTOW-12*	*MTOW-13*
3-01-2000	38.07	11.65	**17.17**	**13.51**	36.21	18.38	**16.65**	**23.14**	15.40	**29.35**	**33.03**	14.85	**35.65**
4-01-2000	38.17	11.47	17.45	13.87	36.12	18.61	16.92	23.51	15.20	29.56	33.31	14.99	35.92
5-01-2000	38.26	11.74	17.63	14.05	35.38	18.71	17.13	23.77	14.44	29.85	33.51	15.11	36.15
6-01-2000	*38.40*	10.70	17.85	14.40	34.37	18.59	17.21	24.05	13.65	29.74	33.67	15.12	36.44
7-01-2000	38.11	**8.83**	*17.97*	14.34	**31.65**	**17.87**	16.84	24.05	12.50	29.63	33.86	14.56	36.70
8-01-2000	**35.89**	10.24	17.22	14.47	32.50	18.37	16.97	24.05	**12.35**	30.12	33.71	**14.53**	37.14
9-01-2000	36.59	11.39	17.37	*14.60*	35.40	19.02	17.33	24.24	14.68	30.60	33.83	15.27	37.54
10-01-2000	37.08	11.79	17.65	14.55	*36.88*	19.04	17.62	24.47	14.97	30.70	33.98	15.32	*37.65*
11-01-2000	37.22	*12.11*	*17.97*	14.47	36.75	*19.17*	*17.95*	*24.67*	*15.44*	*30.80*	*34.10*	*15.61*	37.60
4-01-2001	36.18	9.19	*17.77*	**14.59**	**28.07**	*17.49*	*17.54*	*24.17*	**10.69**	30.13	34.18	14.83	*37.30*
5-01-2001	35.69	9.25	17.38	14.90	30.57	17.10	17.35	23.62	11.70	29.53	**34.15**	14.61	37.00
6-01-2001	35.82	9.08	17.12	14.98	32.71	16.87	17.35	22.47	12.45	**29.51**	34.18	14.39	36.81
7-01-2001	**35.65**	**9.06**	**16.89**	14.90	30.51	**16.54**	**16.35**	**21.85**	11.15	30.03	34.22	**14.16**	**36.77**
8-01-2001	*36.93*	*11.50*	17.51	*15.00*	*34.70*	17.35	16.97	21.98	*13.75*	*31.21*	*34.68*	*14.98*	37.03

Note: Bold numbers are the shallowest groundwater levels for the calendar year; *italic* numbers are the deepest groundwater levels. Shaded areas distinguish between years.

Appendix III: Rain Gauge Site Descriptions

This appendix contains site descriptions of each rain gauge site in the IVWA network as of August 31, 2000. Sites that have been relocated since the network was established in August 1992 are so noted in the "Placement" portion of their site description. Sites with shaded descriptions have been removed from the network.

This appendix has been omitted to protect the privacy of the site owner

Appendix IV: Instructions for Rain Gauge Technicians

A. Use Central Standard Time:

From November 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 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 to disengage it from the chart drive, and remove it.
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 gauge by rotating it clockwise to disengage the tongue-and-groove assembly.
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 rain gauge case and turning it 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 empty 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.
f) In the winter, stir the contents of the bucket to keep the antifreeze mixed with the water.

3) New Chart

a) Copy the OFF time from the old chart to the ON time on the new chart (another red line on the 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 nearly tight so that the chart drive will be ready to run again for another eight days. **Do not overwind.**
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 gauge 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 Robert Scott collect at 217-333-4966 (day) to relay the information. Situations worthy of immediate attention include confusion over how to perform the operation described above, premature chart-drive stoppage, or unauthorized tampering with the gauge. Immediate repairs will be scheduled if necessary.
c) Once you become experienced with this operation, it will take you less than five minutes. Don't let the above instructions scare you - this operation is actually easier to perform than to describe!

5) Mail 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 gauge on your property or would rather that we service it, please contact Water Survey staff immediately so that new arrangements can made. 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 V: Documentation of Rain Gauge Maintenance

This appendix documents major maintenance work carried out at sites in the network from 9-1-00 through 8-31-01.

The electric clocks at sites 6 and 21 were removed on 10-10-00. New movements were ordered, and these clocks were re-installed on 2-8-01. No charts were available at these sites during this period.

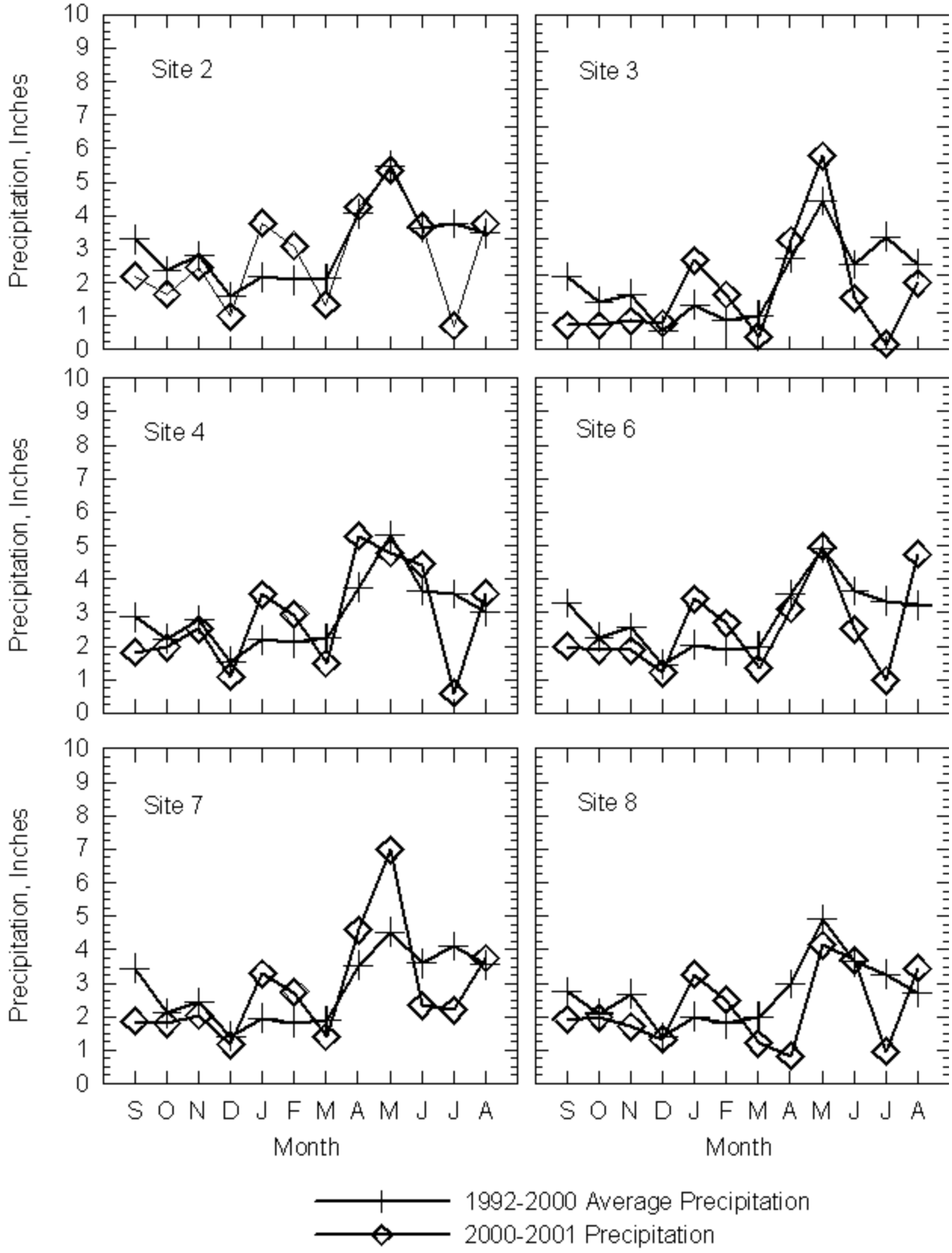
All data logger and interface batteries were replaced on 1-10-01. (This did not impact gauge clock drives.)

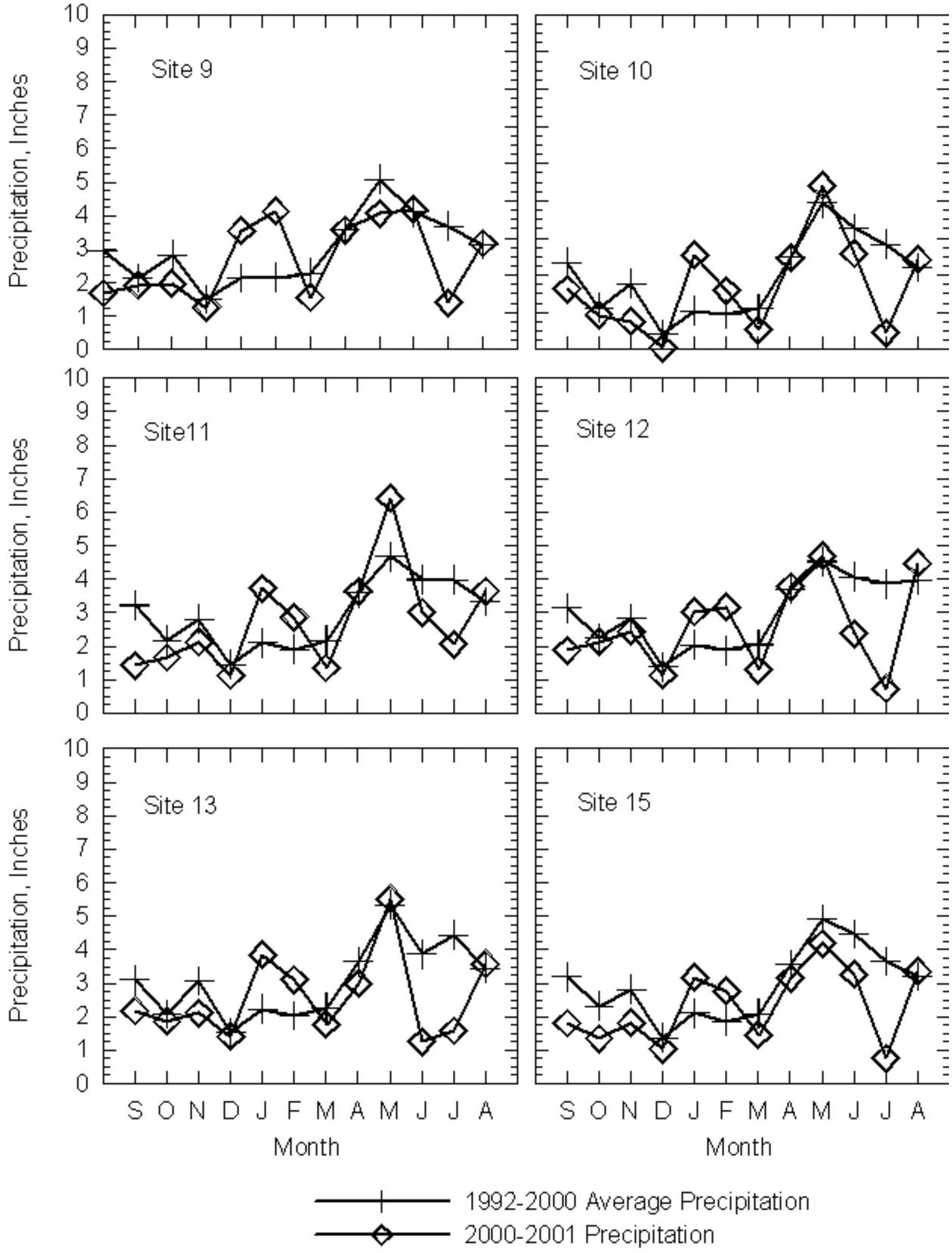
The data logger battery at site 20 was replaced on 2-8-01 due to a bent contact.

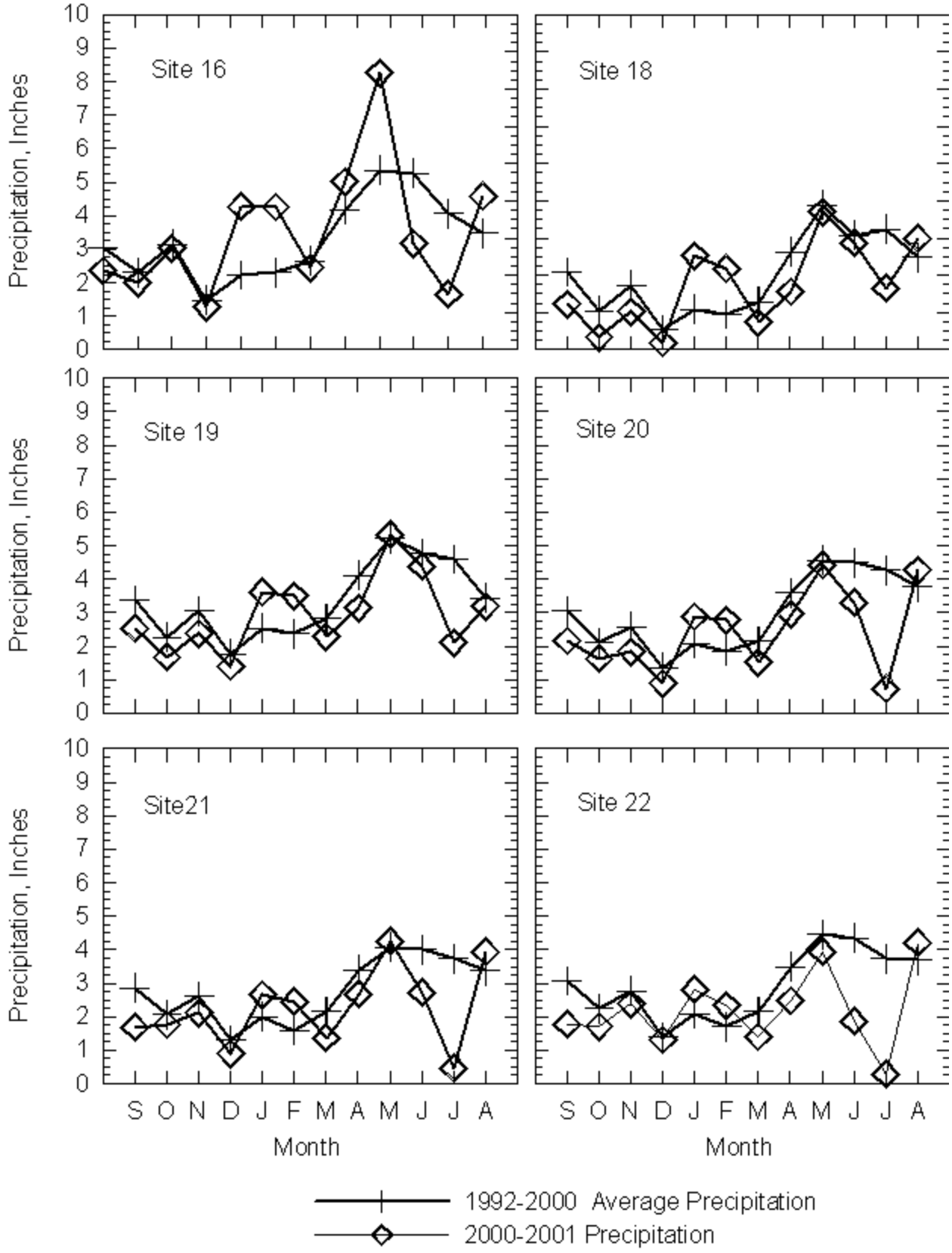
Battery connectors at sites 3, 18, and 20 were repaired on 6-12-01.

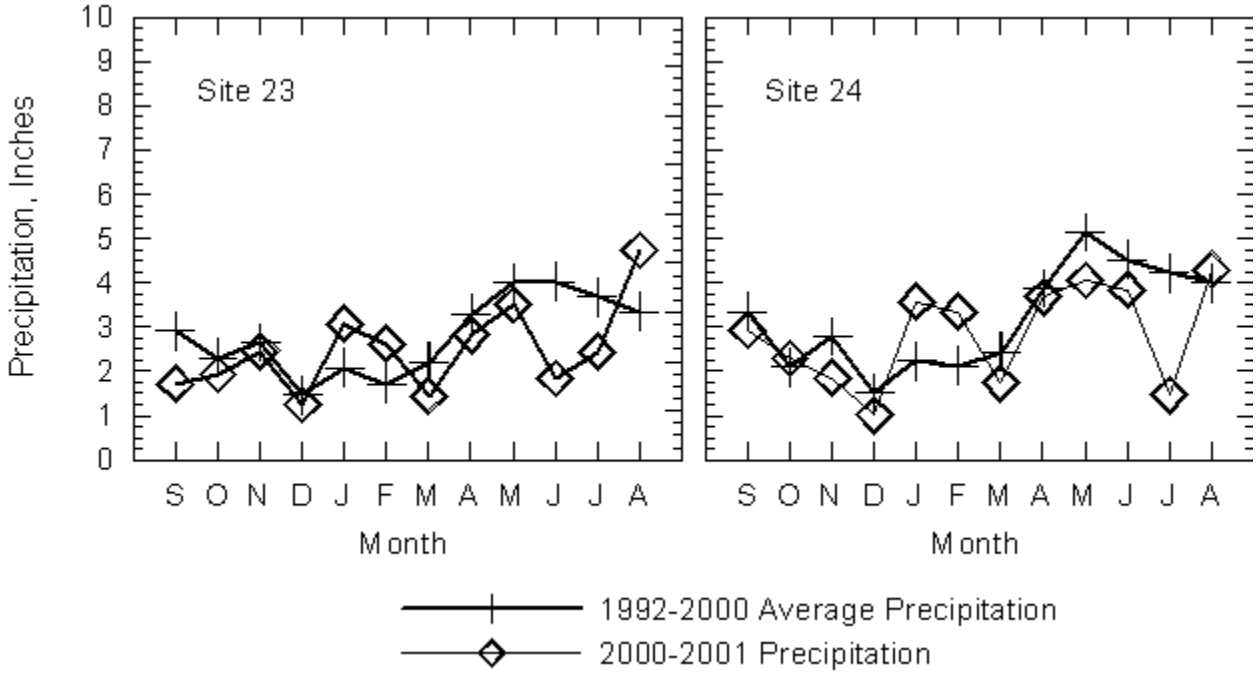
Appendix VI: Monthly Precipitation Variability at Each Site

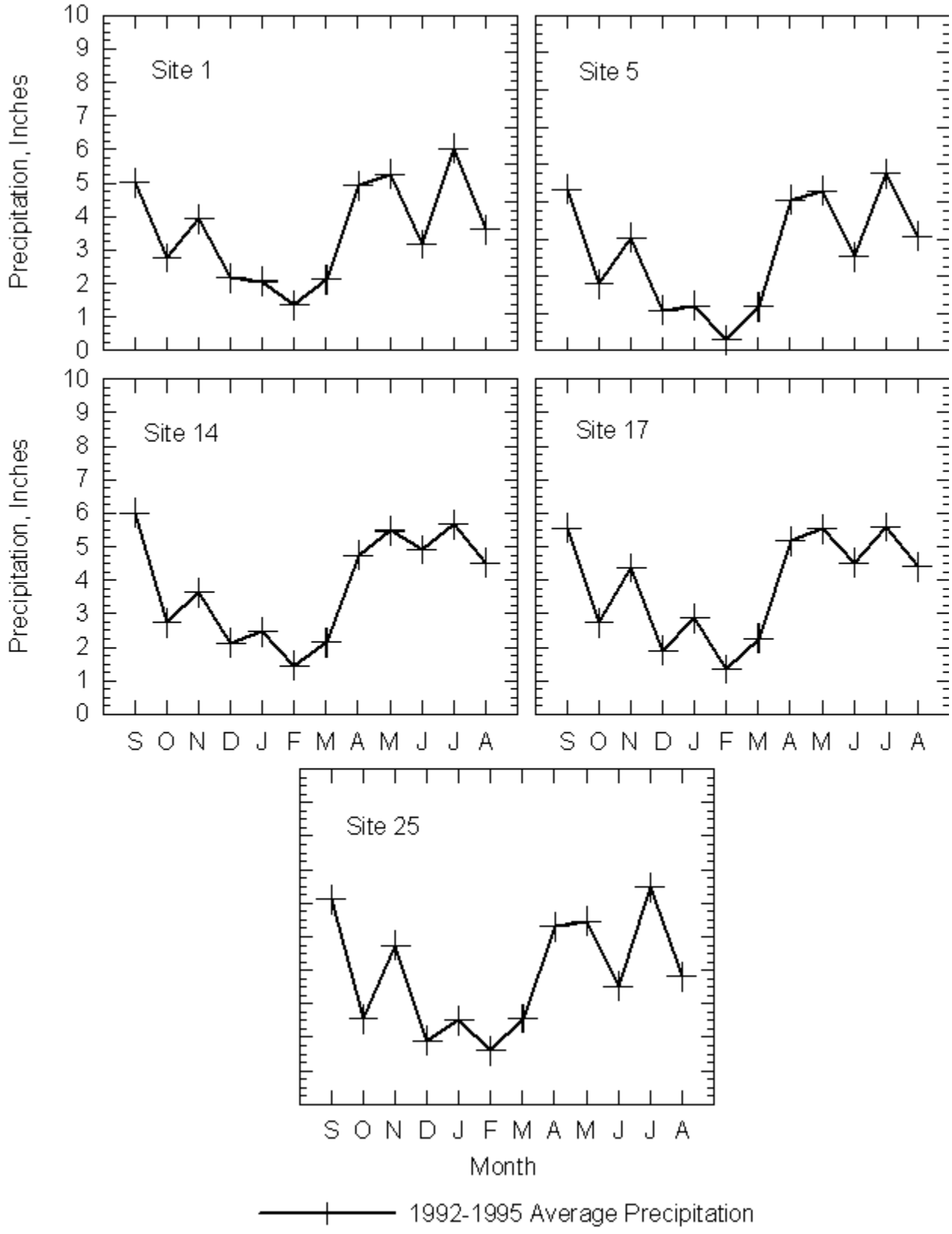
This appendix contains graphs of the monthly variability of precipitation amounts at each site in the IVWA network. Each graph plots the eight-year (1992-2000) monthly average precipitation (in inches) for a site for each month during the observation year (September-August of the following year) and the current 2000-2001 totals for the operating sites. Actual 2000-2001 monthly amounts are contained in Table 5. The 1992-1993 totals can be found in Peppler and Hollinger (1994), the 1993-1994 totals in Peppler and Hollinger (1995), the 1994-1995 totals in Hollinger and Peppler (1996), the 1995-1996 totals in Hollinger (1997), the 1996-1997 totals in Hollinger and Scott (1998), the 1997-1998 totals in Hollinger et al. (1999), the 1998-1999 totals in Hollinger et al. (2000), and the 1999-2000 totals in Scott et al. (2001). Graphs of the 1992-1996 mean precipitation for the five decommissioned sites are shown at the end of the figures.


Site 2
Site 3
Site 4
Site 6
Site 7
Site 8
Precipitation, Inches
0
1
2
3
4
5
6
7
8
9
10
S O N D J F M A M J J A
Month
1992-2000 Average Precipitation
2000-2001 Precipitation


Site 9
Site 10
Site11
Site 12
Site 13
Site 15
Precipitation, Inches
0
1
2
3
4
5
6
7
8
9
10
S O N D J F M A M J J A
Month
1992-2000 Average Precipitation
2000-2001 Precipitation


Site 16
Site 18
Site 19
Site 20
Site21
Site 22
Precipitation, Inches
0
1
2
3
4
5
6
7
8
9
10
S O N D J F M A M J J A
Month
1992-2000 Average Precipitation
2000-2001 Precipitation


Precipitation, Inches
10
9
8
7
6
5
4
3
2
1
0
Site 23
Site 24
S O N D J F M A M J J A
Month
1992-2000 Average Precipitation
2000-2001 Precipitation


Site 1
Site 5
Site 14
Site 17
Site 25
Precipitation, Inches
Precipitation, Inches
0
1
2
3
4
5
6
7
8
9
10
S O N D J F M A M J J A
Month
1992-1995 Average Precipitation

Appendix VII

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 of the 1992-2001 Period

Rain days

Month	*1992-1993*	*1993-1994*	*1994-1995*	*1995-1996*	*1996-1997*	*1997-1998*	*1998-1999*	*1999-2000*	*2000-2001*
September	8	8	5	6	4	6	7	4	7
October	9	5	7	9	6	7	9	4	6
November	13	5	7	3	9	6	8	7	7
December	6	7	7	5	5	8	4	7	10
January	8	7	5	8	10	6	10	7	9
February	5	6	3	3	7	7	7	10	6
March	10	6	5	7	7	10	5	6	5
April	10	11	14	5	10	8	11	9	9
May	14	7	14	20	11	11	8	10	10
June	11	11	13	10	13	13	8	10	6
July	18	8	13	10	6	6	7	10	5
August	16	10	14	4	13	6	4	7	9
Autumn	30	18	19	18	19	19	24	15	20
Winter	19	20	15	16	22	21	21	24	25
Spring	34	24	33	32	28	29	24	25	24
Summer	45	29	40	24	32	25	19	27	20
Annual	128	91	107	90	101	94	88	91	89

Rain events

Month	*1992-1993*	*1993-1994*	*1994-1995*	*1995-1996*	*1996-1997*	*1997-1998*	*1998-1999*	*1999-2000*	*2000-2001*
September	10	8	6	6	6	8	12	8	10
October	10	5	7	9	11	11	15	5	10
November	13	7	10	3	9	7	18	10	15
December	9	9	8	5	5	9	6	15	19
January	9	8	5	8	13	8	19	11	18
February	5	6	3	4	8	10	10	12	13
March	10	6	6	7	8	23	8	10	12
April	11	12	19	6	11	12	20	14	17
May	16	7	16	25	15	18	12	16	18
June	13	13	15	11	14	21	13	18	11
July	21	9	16	10	6	9	10	14	6
August	21	12	18	4	15	11	8	9	11
Autumn	33	20	23	18	26	26	45	23	35
Winter	23	23	16	17	26	27	35	38	50
Spring	37	25	41	38	34	53	40	40	47
Summer	55	34	49	25	35	41	31	41	28
Annual	148	102	129	98	121	147	151	142	160

Appendix VII (Continued)

Total rainfall

Month	*1992-1993*	*1993-1994*	*1994-1995*	*1995-1996*	*1996-1997*	*1997-1998*	*1998-1999*	*1999-2000*	*2000-2001*
September	4.21	11.56	1.49	2.00	1.61	2.52	1.61	0.90	2.02
October	2.00	2.97	3.34	3.06	1.99	1.45	2.10	0.95	1.80
November	6.35	2.59	3.37	1.84	2.20	3.14	2.76	0.49	2.13
December	2.82	1.11	2.29	0.45	0.89	1.49	0.88	2.07	1.18
January	3.52	0.96	2.90	1.01	1.26	2.59	2.85	0.64	3.40
February	1.64	1.64	0.61	0.77	3.88	2.71	1.32	2.04	2.98
March	3.85	0.96	1.93	1.93	1.95	4.62	1.32	1.71	1.55
April	5.25	5.03	4.87	2.61	1.76	3.55	4.51	1.61	3.40
May	2.61	3.11	10.33	5.37	3.02	5.28	4.64	4.42	5.06
June	6.27	3.19	2.65	2.85	2.05	7.23	4.49	4.88	3.08
July	11.05	3.44	2.73	2.84	2.55	2.37	4.47	4.47	1.32
August	5.99	3.66	2.90	0.98	4.42	3.53	3.28	2.02	3.84
Autumn	12.56	17.12	8.20	6.89	5.80	7.10	6.47	2.34	5.96
Winter	7.97	3.70	5.80	2.23	6.03	6.79	5.05	4.75	7.56
Spring	11.71	9.10	17.14	9.91	6.74	13.45	10.47	7.74	10.01
Summer	23.31	10.29	8.28	6.68	9.02	13.14	12.24	11.36	8.24
Annual	55.55	40.21	39.42	25.70	27.58	40.48	34.24	26.20	31.77

Inches of rain per rain day

Month	*1992-1993*	*1993-1994*	*1994-1995*	*1995-1996*	*1996-1997*	*1997-1998*	*1998-1999*	*1999-2000*	*2000-2001*
September	0.53	1.45	0.30	0.33	0.40	0.42	0.23	0.23	0.29
October	0.22	0.59	0.48	0.34	0.33	0.21	0.23	0.24	0.30
November	0.49	0.52	0.48	0.61	0.24	0.52	0.35	0.07	0.30
December	0.47	0.16	0.33	0.09	0.18	0.19	0.22	0.30	0.12
January	0.44	0.14	0.58	0.13	0.13	0.43	0.29	0.09	0.38
February	0.33	0.27	0.20	0.26	0.55	0.39	0.19	0.20	0.50
March	0.38	0.16	0.39	0.28	0.28	0.46	0.26	0.29	0.31
April	0.52	0.46	0.35	0.52	0.18	0.44	0.41	0.18	0.38
May	0.19	0.44	0.74	0.27	0.27	0.48	0.58	0.44	0.51
June	0.57	0.29	0.20	0.29	0.16	0.56	0.56	0.49	0.51
July	0.61	0.43	0.21	0.28	0.43	0.40	0.64	0.45	0.26
August	0.37	0.37	0.21	0.25	0.34	0.59	0.82	0.29	0.43
Autumn	0.42	0.95	0.43	0.38	0.31	0.37	0.27	0.16	0.30
Winter	0.42	0.19	0.39	0.14	0.27	0.32	0.24	0.20	0.30
Spring	0.34	0.38	0.52	0.31	0.24	0.46	0.44	0.31	0.42
Summer	0.52	0.35	0.21	0.28	0.28	0.53	0.64	0.42	0.41
Annual	0.43	0.44	0.37	0.29	0.27	0.43	0.39	0.29	0.36

Appendix VII (Concluded)

	Inches of rain per rain event								
Month	*1992-1993*	*1993-1994*	*1994-1995*	*1995-1996*	*1996-1997*	*1997-1998*	*1998-1999*	*1999-2000*	*2000-2001*
September	0.42	1.45	0.25	0.33	0.27	0.31	0.13	0.11	0.20
October	0.20	0.59	0.48	0.34	0.18	0.13	0.14	0.19	0.18
November	0.49	0.37	0.34	0.61	0.24	0.45	0.15	0.05	0.14
December	0.31	0.12	0.29	0.09	0.18	0.17	0.15	0.14	0.06
January	0.39	0.12	0.58	0.13	0.10	0.32	0.15	0.06	0.19
February	0.33	0.27	0.20	0.19	0.49	0.27	0.13	0.17	0.23
March	0.38	0.16	0.32	0.28	0.24	0.20	0.16	0.17	0.13
April	0.48	0.42	0.26	0.43	0.16	0.30	0.23	0.12	0.20
May	0.16	0.44	0.65	0.21	0.20	0.29	0.39	0.28	0.28
June	0.48	0.25	0.18	0.26	0.15	0.34	0.35	0.27	0.28
July	0.53	0.38	0.17	0.28	0.43	0.26	0.45	0.32	0.22
August	0.29	0.31	0.16	0.25	0.29	0.32	0.41	0.22	0.35
Autumn	0.38	0.86	0.36	0.38	0.22	0.27	0.14	0.10	0.17
Winter	0.35	0.16	0.36	0.13	0.23	0.25	0.14	0.13	0.15
Spring	0.32	0.36	0.42	0.26	0.20	0.25	0.26	0.19	0.21
Summer	0.42	0.30	0.17	0.27	0.26	0.32	0.39	0.28	0.29
Annual	0.38	0.39	0.31	0.26	0.23	0.28	0.23	0.18	0.20

Appendix VIII: Documentation of Heavy Storm Amounts

This appendix documents all storm period amounts, start times, and durations, and notes those that exceeded an annual event (one-year recurrence interval) during the period September 1, 1992-August 31, 2000. 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).

To determine the return frequency of any storm in Table VIII-2 or VIII-3, obtain the storm duration from the tables, then look in the left-hand column of the table above and locate the storm duration line that equals or just exceeds the storm duration in Table VIII-2 or VIII-3. If the rainfall for the event in Table VIII-2 or VIII-3 exceeds any amounts in the table above, obtain the return frequency by looking at the heading of the right-hand column that the rainfall amount exceeds. For example, in Table VIII-3, storm number 20 has a duration of 38 hours. This storm duration falls between the 24- and 48-hour storm duration in the table above. Use the 48-hour storm duration line. In Table VIII-3 station 10 recorded rainfall equal to 3.21 inches, and station 11 recorded 3.39 inches. Therefore, station 10 exceeded the 1-year return frequency amount (2.81 inches) for a 48-hour storm, and station 11 exceeded the 2-year return frequency amount (3.38 inches) for a 48-hour storm.

The following table documents individual storm period start time (hour), duration (in hours), number of gauges receiving precipitation during each storm, average precipitation over the network of 25 gauges, average precipitation at the gauges receiving precipitation during the event, maximum precipitation at any gauge during the storm, and the location of the gauge. The last column in the table indicates whether a particular storm, at the station with the maximum rainfall, exceeded events greater than an annual event for the observed storm duration (1-year to 100-year recurrence intervals considered). Only those events with maximum precipitation greater than that expected once a year are indicated. 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 VIII-1. Precipitation Amounts for Different Storm Durations and Recurrence Intervals

Storm	*Rainfall (inches) for given recurrence interval*						
duration	*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

Table VIII-2. Documentation of Storm Amounts

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					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, 48-Hr
					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	
					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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					January 1993 (Continued)				
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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					May 1993 (Continued)				
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	
					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, 12-Hr
106	30	2300	14	25	1.25	1.25	3.03	24	2-Yr, 18-Hr
					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, 12-Hr
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, 12-Hr
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, 18-Hr
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, 18-Hr
123	24	0400	6	25	1.05	1.05	2.12	25	1-Yr, 6-Hr
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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					August 1993 (Continued)				
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, 12-Hr
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	
					September 1993				
149	2	0200	29	25	3.48	3.48	4.79	25	5-Yr, 48-Hr
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	50-Yr, 48-Hr
154	22	0700	14	25	0.38	0.38	0.66	25	
155	25	0600	13	25	0.97	0.97	1.27	11	
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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					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	
					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, 12-Hr
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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					June 1994 (Continued)				
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, 12-Hr
234	19	0400	7	24	1.01	1.06	2.78	17	2-Yr, 12-Hr
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	
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	
					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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					November 1994 (Continued)				
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	
285	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	
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	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					April 1995 (Continued)				
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, 12-Hr
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, 24-Hr
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, 6-Hr
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, 6-Hr
340	24	1600	5	9	0.15	0.40	1.91	2	1-Yr, 6-Hr
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	
353	20	2000	4	3	0.00	0.03	0.03	1	
354	21	0800	6	25	0.44	0.44	0.85	12	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					July 1995 (Continued)				
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, 12-Hr
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	
					September 1995				
380	6	1600	12	20	0.51	0.51	0.62	8	
381	7	1300	24	20	0.58	0.58	1.51	7	
382	17	1300	2	4	0.01	0.03	0.05	23	
383	19	1300	15	20	0.35	0.35	0.45	4	
384	21	0900	16	20	0.17	0.17	0.25	2	
385	30	1900	7	20	0.38	0.38	0.63	19	
					October 1995				
386	2	2300	5	6	0.02	0.07	0.10	22	
387	5	1600	8	6	0.03	0.11	0.20	3	
388	6	1700	4	6	0.02	0.06	0.09	23	
389	13	1700	11	20	0.16	0.16	0.30	12	
390	19	1600	10	20	1.36	1.36	1.60	21	
391	20	1100	6	6	0.01	0.04	0.05	11	
392	23	1400	6	20	0.17	0.17	0.30	10	
393	26	1500	12	20	0.38	0.38	0.62	23	
394	30	1200	24	20	0.90	0.90	1.22	7	
					November 1995				
395	1	1200	10	20	0.52	0.52	0.89	4	
396	2	0300	10	16	0.13	0.16	0.42	4	
397	10	1300	21	20	1.18	1.18	1.49	7	
398	7	1400	4	2	0.01	0.05	0.08	19	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					December 1995				
399	8	0600	18	20	0.10	0.10	0.20	23	
400	17	2100	16	20	0.22	0.22	0.34	19	
401	18	2000	10	15	0.12	0.16	0.33	12	
402	19	0900	3	1	0.00	0.04	0.04	19	
					January 1996				
403	4	0300	17	20	0.11	0.11	0.16	22	
404	5	1100	11	9	0.02	0.04	0.10	7	
405	11	0200	11	17	0.09	0.10	0.16	4	
406	17	0700	4	8	0.07	0.18	0.33	8	
407	18	0100	22	20	0.47	0.47	0.98	4	
408	23	0100	13	20	0.10	0.10	0.19	19	
409	26	0700	12	20	0.14	0.14	0.29	18	
410	30	0800	9	3	0.01	0.05	0.05	8	
					February 1996				
411	8	0500	5	9	0.01	0.03	0.05	2	
412	21	1500	8	15	0.02	0.03	0.11	12	
413	26	0900	5	5	0.10	0.42	0.85	6	
414	26	1900	13	20	0.63	0.63	1.28	4	
					March 1996				
415	5	0100	12	20	1.14	1.14	1.35	2	
416	6	0200	14	20	0.07	0.07	0.13	9	
417	19	1700	14	15	0.04	0.06	0.24	21	
418	23	1300	6	9	0.01	0.03	0.05	22	
419	24	1900	7	20	0.52	0.52	0.82	4	
420	28	1200	12	20	0.10	0.10	0.16	8	
421	31	0100	13	19	0.05	0.05	0.16	21	
					April 1996				
422	14	1800	19	20	0.92	0.92	1.13	2	
423	18	1600	5	19	0.34	0.36	0.94	7	
424	19	1000	2	1	0.00	0.04	0.04	2	
425	19	1600	4	14	0.30	0.43	1.14	11	
426	21	1900	15	20	0.61	0.61	1.49	16	
427	27	1900	41	20	0.43	0.43	0.65	19	
					May 1996				
428	3	1800	18	20	0.33	0.33	0.48	19	
429	5	0600	6	12	0.05	0.08	0.22	8	
430	6	1900	12	20	0.31	0.31	0.60	19	
431	7	1400	6	6	0.01	0.03	0.05	12	
432	8	0100	14	20	1.30	1.30	4.64	24	10-Yr, 18-Hr
433	9	1200	2	1	0.00	0.08	0.08	3	
434	10	0200	21	20	0.51	0.51	0.83	22	
435	13	0300	3	1	0.00	0.03	0.03	20	
436	13	0900	1	1	0.00	0.04	0.04	23	
437	13	1400	6	5	0.01	0.05	0.10	13	
438	14	1400	8	14	0.03	0.05	0.10	15	
439	15	0100	6	15	0.04	0.06	0.13	8	
440	16	0700	3	2	0.00	0.02	0.02	2	
441	20	1500	12	17	0.13	0.15	0.34	4	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					May 1996 (Continued)				
442	23	0200	8	20	0.27	0.27	0.49	24	
443	24	0300	1	2	0.00	0.03	0.05	9	
444	24	0900	7	20	0.37	0.37	0.60	3	
445	25	0400	5	9	0.09	0.20	0.66	2	
446	25	1700	8	20	0.23	0.23	0.56	19	
447	26	1100	7	20	0.46	0.46	0.74	24	
448	26	2300	12	20	1.17	1.17	1.83	3	
449	28	0600	6	7	0.03	0.09	0.20	6	
450	29	0700	8	2	0.00	0.04	0.04	2	
451	30	0600	3	2	0.00	0.01	0.02	18	
452	31	0800	1	1	0.00	0.01	0.01	2	
					June 1996				
453	1	0600	19	20	0.66	0.66	0.89	8	
454	2	1900	5	20	0.29	0.29	0.56	6	
455	5	2100	5	20	0.19	0.19	0.53	12	
456	6	1800	4	20	0.50	0.50	1.35	16	
457	8	1800	15	19	0.04	0.04	0.09	19	
458	9	2100	8	20	0.10	0.10	0.34	9	
459	13	1400	8	15	0.31	0.41	1.21	23	
460	17	0500	2	6	0.03	0.09	0.20	7	
461	17	1700	11	17	0.15	0.18	0.41	24	
462	21	1800	4	2	0.01	0.14	0.16	10	
463	23	2100	5	20	0.56	0.56	0.99	9	
					July 1996				
464	12	2200	6	13	0.14	0.21	0.41	23	
465	14	0300	21	20	0.55	0.55	1.02	15	
466	16	1200	2	6	0.01	0.04	0.07	11	
467	20	1200	23	20	1.08	1.08	1.44	2	
468	22	1700	4	20	0.13	0.13	0.29	3	
469	23	2000	10	20	0.23	0.23	0.60	13	
470	24	1100	4	19	0.13	0.14	0.34	15	
471	27	2300	2	2	0.00	0.02	0.03	22	
472	28	1400	8	11	0.21	0.38	1.19	3	
473	30	0100	5	17	0.37	0.43	1.15	15	
					August 1996				
474	7	1700	5	6	0.07	0.24	1.05	2	
475	16	2100	39	20	0.89	0.89	1.54	24	
476	19	0200	3	2	0.01	0.06	0.06	2	
477	23	1100	2	1	0.02	0.32	0.32	12	
					September 1996				
478	06	1700	6	2	0.02	0.18	0.24	2	
479	08	1200	2	4	0.01	0.04	0.05	21	
480	08	1700	3	3	0.02	0.10	0.16	12	
481	23	0500	10	20	0.34	0.34	0.41	19	
482	25	1600	4	8	0.04	0.09	0.12	11	
483	25	2300	27	20	1.15	1.15	1.62	24	
484	07	1200	1	1	0.00	0.03	0.03	8	
485	07	1800	10	19	0.39	0.41	0.67	23	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					October 1996				
	486	08	1500	1	1	0.00	0.04	0.04	23
487	17	0200	4	3	0.01	0.07	0.10	15	
488	17	1200	10	20	0.62	0.62	1.24	23	
489	21	0400	6	10	0.01	0.03	0.06	24	
490	21	1300	2	2	0.00	0.02	0.03	23	
491	21	1900	1	1	0.00	0.03	0.03	13	
492	21	2400	20	20	0.68	0.68	0.93	24	
493	22	2300	9	20	0.06	0.06	0.11	12	
494	29	1400	6	20	0.19	0.19	0.43	18	
					November 1996				
495	04	1700	10	12	0.03	0.04	0.08	3	
496	06	0700	19	20	1.14	1.14	1.47	2	
497	07	0500	9	14	0.07	0.11	0.25	22	
498	16	2000	15	18	0.20	0.23	0.29	24	
499	20	2300	17	18	0.08	0.09	0.22	16	
500	23	0900	10	2	0.01	0.05	0.09	2	
501	24	0300	17	19	0.24	0.25	0.34	21	
502	29	1400	14	20	0.36	0.36	0.60	2	
503	30	2300	2	14	0.02	0.03	0.08	18	
					December 1996				
504	01	0100	12	20	0.11	0.11	0.21	19	
505	04	2300	15	19	0.14	0.15	0.28	11	
506	11	0400	4	14	0.04	0.05	0.21	23	
507	14	2400	4	16	0.04	0.05	0.09	11	
508	23	0300	14	19	0.54	0.57	1.17	18	
					January 1997				
509	04	1000	6	4	0.01	0.05	0.08	2	
510	08	2300	14	17	0.14	0.17	0.33	12	
511	09	1800	10	11	0.03	0.06	0.11	4	
512	12	1100	4	2	0.01	0.14	0.15	24	
513	12	1900	4	2	0.01	0.09	0.14	24	
514	15	0300	36	15	0.24	0.32	0.44	23	
515	21	1300	5	10	0.03	0.06	0.10	3	
516	21	2400	4	15	0.05	0.07	0.12	9	
517	22	0900	2	1	0.00	0.04	0.04	20	
518	24	0900	8	18	0.30	0.33	0.44	22	
519	26	0500	9	18	0.10	0.11	0.19	19	
520	26	2300	2	1	0.00	0.02	0.02	8	
521	27	0700	11	17	0.15	0.17	0.41	18	
					February 1997				
522	02	1500	8	1	0.00	0.08	0.08	18	
523	03	0500	3	2	0.00	0.01	0.01	7	
524	03	1100	27	18	0.11	0.12	0.21	18	
525	15	1600	13	18	0.06	0.07	0.14	3	
526	19	0300	8	8	0.02	0.04	0.06	10	
527	20	1100	39	19	2.07	2.18	3.56	2	2-Yr, 48-Hr
528	26	0400	35	19	1.28	1.35	1.96	16	
529	28	1700	8	18	0.14	0.15	0.30	19	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					March 1997				
530	01	0100	21	19	0.09	0.10	0.20	8	
531	09	0500	9	20	0.88	0.88	1.26	18	
532	13	1400	13	19	0.43	0.46	0.71	16	
533	18	0100	11	8	0.04	0.09	0.20	19	
534	24	1200	5	20	0.30	0.30	0.38	18	
535	24	2300	7	18	0.08	0.08	0.16	18	
536	27	2400	5	7	0.01	0.04	0.06	18	
537	30	0400	9	19	0.08	0.09	0.15	2	
					April 1997				
538	04	1400	34	20	0.38	0.38	1.32	24	
539	06	0300	4	2	0.00	0.04	0.05	22	
540	10	1200	35	20	0.87	0.87	1.53	4	
541	12	1100	14	3	0.02	0.10	0.13	11	
542	15	2300	4	18	0.09	0.10	0.18	18	
543	18	1700	9	10	0.04	0.08	0.18	6	
544	20	1600	8	9	0.06	0.13	0.22	24	
545	21	0700	15	7	0.03	0.09	0.26	3	
546	27	0200	10	12	0.04	0.06	0.08	20	
547	30	0500	2	1	0.00	0.04	0.04	2	
548	30	1200	4	18	0.20	0.22	0.50	20	
					May 1997				
549	02	0600	5	19	0.06	0.06	0.18	19	
550	02	2400	9	20	0.45	0.45	0.82	9	
551	03	1200	4	14	0.03	0.05	0.13	10	
552	07	1300	4	6	0.01	0.03	0.06	3	
553	07	2200	9	20	0.45	0.45	0.80	20	
554	11	1500	2	3	0.00	0.03	0.03	22	
555	13	2400	5	2	0.01	0.10	0.12	16	
556	16	1600	2	1	0.00	0.04	0.04	10	
557	16	2100	6	10	0.06	0.11	0.34	16	
558	18	0700	6	19	0.09	0.09	0.13	3	
559	18	2100	11	20	0.33	0.33	0.64	13	
560	24	1500	6	9	0.03	0.07	0.17	23	
561	25	1600	27	20	1.20	1.20	2.63	16	
562	27	1500	9	20	0.24	0.24	0.37	9	
563	28	1400	9	9	0.05	0.11	0.29	12	
					June 1997				
564	01	1400	18	12	0.05	0.09	0.19	23	
565	06	0400	12	18	0.38	0.43	0.89	7	
566	07	1300	20	18	0.31	0.35	0.98	18	
567	08	1200	3	4	0.00	0.02	0.03	3	
568	10	2200	8	2	0.02	0.25	0.40	24	
569	11	2000	8	4	0.05	0.27	0.56	22	
570	12	0900	10	15	0.56	0.74	1.62	16	
571	15	2100	8	13	0.04	0.06	0.15	21	
572	20	0800	4	6	0.07	0.24	1.03	16	
573	21	0500	3	3	0.02	0.14	0.26	24	
574	25	1500	6	17	0.08	0.10	0.38	3	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					June 1997 (Continued)				
575	29	1500	2	6	0.06	0.20	0.49	9	
576	30	0300	3	3	0.02	0.15	0.24	19	
577	30	1200	13	15	0.15	0.20	0.72	24	
					July 1997				
578	03	1000	14	18	0.27	0.30	0.56	16	
582	21	0500	19	19	0.56	0.59	1.28	11	
583	27	1700	8	13	0.34	0.53	1.77	18	
579	13	1500	2	4	0.03	0.13	0.19	8	
580	19	1200	11	19	1.27	1.34	3.98	21	10-Yr, 12-Hr
581	20	0500	2	1	0.00	0.08	0.08	23	
					August 1997				
584	03	1700	15	19	0.51	0.53	1.53	8	
585	08	2400	10	19	0.56	0.58	1.29	15	
586	09	1600	2	2	0.01	0.15	0.17	12	
587	11	0100	4	4	0.03	0.17	0.38	3	
588	11	2000	5	12	0.09	0.14	0.45	22	
589	12	1300	6	16	0.25	0.31	0.83	10	
590	15	0100	5	19	0.27	0.28	0.64	23	
591	16	2300	15	19	1.44	1.51	3.06	2	2-Yr, 18-Hr
592	17	1900	1	1	0.00	0.07	0.07	19	
593	19	0800	9	18	0.25	0.28	0.48	24	
594	21	0700	2	1	0.00	0.03	0.03	2	
595	21	1500	8	18	0.09	0.10	0.18	16	
596	24	1300	11	15	0.29	0.38	0.92	9	
597	26	0600	4	4	0.02	0.12	0.18	24	
598	30	0700	8	19	0.42	0.44	0.94	12	
					September 1997				
599	2	1000	13	18	0.73	0.81	1.75	22	
600	7	1600	13	14	0.18	0.26	0.94	7	
601	8	1300	11	17	0.65	0.77	2.95	7	2-Yr, 12-Hr
602	9	1100	10	13	0.18	0.28	0.83	20	
603	16	1800	11	18	0.20	0.22	0.30	2	
604	22	1900	24	18	0.29	0.33	0.45	16	
					October 1997				
605	4	0500	8	13	0.03	0.05	0.11	8	
606	8	2300	11	16	0.05	0.06	0.16	23	
607	12	2100	15	18	0.51	0.57	0.97	16	
608	23	1700	10	15	0.08	0.11	0.25	2	
609	24	1400	12	19	0.14	0.15	0.23	8	
610	25	1800	29	17	0.41	0.49	0.59	8	
611	31	2100	4	10	0.05	0.11	0.21	18	
					November 1997				
612	1	0100	5	15	0.11	0.14	0.30	23	
613	2	0900	8	15	0.05	0.07	0.15	15	
614	3	1600	5	4	0.00	0.01	0.01	6	
615	5	0800	28	20	1.18	1.18	1.58	16	
616	27	1300	5	20	0.16	0.16	0.24	2	
617	28	0400	8	19	0.47	0.49	0.71	12	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					November 1997 (Continued)				
618	28	2200	8	14	0.05	0.07	0.15	2	
619	29	1100	35	20	1.08	1.08	1.53	22	
					December 1997				
620	3	0300	6	20	0.16	0.16	0.28	22	
621	4	1800	12	6	0.02	0.07	0.13	11	
622	8	1300	8	5	0.01	0.05	0.06	18	
623	9	1600	22	20	0.28	0.28	0.43	7	
624	21	0800	5	6	0.01	0.03	0.04	2	
625	21	1600	21	19	0.24	0.26	0.60	16	
626	24	0500	20	19	0.59	0.62	0.79	16	
627	29	0300	13	18	0.06	0.07	0.12	19	
628	30	0800	11	15	0.05	0.06	0.12	20	
629	30	2300	5	1	0.00	0.03	0.03	18	
					January 1998				
630	4	0700	10	20	0.48	0.48	0.79	16	
631	5	0300	14	20	0.24	0.24	0.30	10	
632	6	0200	4	2	0.00	0.03	0.04	19	
633	6	1200	20	20	0.52	0.52	0.69	19	
634	7	1200	33	20	1.14	1.14	1.79	19	
635	9	1000	7	3	0.01	0.05	0.10	19	
636	14	1200	6	18	0.13	0.15	0.25	19	
637	15	0900	9	10	0.04	0.08	0.14	12	
638	22	1700	3	1	0.00	0.05	0.05	3	
639	24	0200	12	3	0.01	0.05	0.08	3	
640	24	1700	2	1	0.00	0.03	0.03	4	
641	31	1100	7	1	0.00	0.10	0.10	19	
					February 1998				
642	10	0700	11	20	0.28	0.28	0.42	23	
643	10	2300	23	20	1.40	1.40	1.87	16	
644	16	0900	11	20	0.16	0.16	0.33	16	
645	17	0500	15	20	0.14	0.14	0.23	20	
646	18	0300	2	2	0.00	0.03	0.04	21	
647	19	1500	12	19	0.12	0.13	0.28	9	
648	26	1500	19	20	0.61	0.61	0.90	16	
					March 1998				
649	7	1900	19	20	1.08	1.08	1.66	16	
650	8	1700	20	20	0.64	0.64	1.05	21	
651	16	0200	13	15	0.03	0.04	0.05	3	
652	16	2000	30	20	1.44	1.44	1.94	19	
653	19	1900	22	20	0.55	0.55	0.87	21	
654	27	2000	12	20	0.47	0.47	1.07	16	
655	28	2400	9	19	0.12	0.12	0.35	22	
656	31	0200	20	17	0.28	0.28	0.41	11	
					April 1998				
657	3	1100	12	19	0.24	0.25	0.56	23	
658	7	0800	12	20	0.43	0.43	1.71	13	
659	8	2400	13	20	0.14	0.14	0.26	4	
660	13	1000	14	19	0.87	0.91	1.16	24	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					April 1998 (Continued)				
661	15	0200	5	20	0.23	0.23	0.51	19	
662	15	2200	2	4	0.03	0.12	0.18	4	
663	21	1800	3	2	0.01	0.09	0.13	2	
664	21	2400	7	11	0.04	0.06	0.13	16	
665	28	1500	16	19	0.80	0.85	1.22	15	
666	29	1800	3	9	0.12	0.28	0.63	2	
667	30	0100	4	3	0.02	0.12	0.21	21	
668	30	0800	17	19	0.47	0.49	1.17	20	
					May 1998				
669	1	0100	18	17	0.16	0.19	0.64	19	
670	2	0900	5	3	0.01	0.08	0.11	23	
671	2	1700	13	11	0.12	0.22	0.99	3	
672	3	1900	1	1	0.00	0.06	0.06	8	
673	5	1700	8	12	0.53	0.88	2.48	2	1-Yr, 12-Hr
674	6	0600	13	12	0.15	0.25	0.83	3	
675	7	0200	34	20	1.34	1.34	3.00	22	1-Yr, 48-Hr
676	9	0900	22	3	0.02	0.15	0.22	8	
677	12	0500	8	15	0.08	0.11	0.22	13	
678	12	1800	8	20	0.41	0.41	0.87	4	
679	15	1900	13	20	0.45	0.45	0.90	18	
680	19	1700	27	19	0.50	0.53	1.31	8	
681	22	0400	8	19	0.52	0.55	0.73	4	
682	22	2200	2	17	0.20	0.23	0.48	16	
683	23	2100	8	19	0.65	0.69	1.35	6	
684	25	1900	4	15	0.08	0.11	0.27	13	
					June 1998				
685	3	1000	4	20	0.12	0.12	0.22	24	
686	4	2200	9	20	0.20	0.20	0.33	19	
687	8	0800	7	20	0.42	0.42	0.60	24	
688	8	1900	10	20	0.71	0.71	0.98	23	
689	11	0200	3	16	0.21	0.27	0.77	19	
690	11	0800	8	20	0.63	0.63	1.15	23	
691	14	0400	5	20	0.43	0.43	0.55	4	
692	14	1300	18	19	0.50	0.53	1.58	4	
693	15	1500	18	20	0.73	0.73	1.81	16	
694	16	1800	1	1	0.00	0.09	0.09	12	
695	18	1700	6	20	0.37	0.37	0.61	11	
696	19	1300	1	1	0.00	0.08	0.08	9	
697	20	2400	10	20	0.49	0.49	1.11	13	
698	22	0700	6	20	0.43	0.43	0.69	21	
699	22	1600	4	20	0.42	0.42	0.83	22	
700	28	1900	15	20	0.82	0.82	1.96	22	
701	29	1500	9	20	0.72	0.72	1.48	18	
					July 1998				
702	1	1400	1	1	0.01	0.13	0.13	24	
703	3	1500	5	16	0.16	0.20	1.08	16	
704	3	2400	3	4	0.01	0.06	0.13	15	
705	6	0700	3	6	0.05	0.17	0.38	24	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					July 1998 (Continued)				
706	7	0500	2	2	0.01	0.11	0.13	2	
707	7	1000	7	20	1.10	1.10	2.13	13	
708	9	1600	4	11	0.23	0.41	0.74	11	
709	18	0300	7	13	0.17	0.26	0.92	20	
710	19	2000	1	2	0.01	0.06	0.09	9	
711	20	0700	3	11	0.09	0.16	0.39	20	
712	20	2200	1	1	0.00	0.08	0.08	10	
713	22	0800	14	19	0.43	0.45	1.12	13	
714	23	0700	2	7	0.01	0.04	0.05	3	
715	30	0400	9	12	0.10	0.17	0.55	24	
716	30	2100	4	1	0.00	0.04	0.04	10	
					August 1998				
717	3	1000	8	8	0.03	0.07	0.14	13	
718	3	2100	2	6	0.03	0.11	0.26	7	
719	4	0200	10	20	0.14	0.14	0.54	24	
720	4	1700	7	20	0.92	0.92	1.84	24	
721	5	0300	19	15	0.16	0.22	0.65	16	
722	6	1400	1	1	0.00	0.09	0.09	12	
723	7	2300	5	5	0.05	0.22	0.40	13	
724	9	1600	2	4	0.07	0.35	0.84	8	
725	10	0500	6	4	0.01	0.05	0.08	8	
726	11	1500	1	1	0.00	0.08	0.08	10	
727	12	0700	1	1	0.01	0.17	0.17	10	
728	15	1300	1	1	0.01	0.18	0.18	3	
729	17	1400	7	8	0.11	0.28	0.46	2	
730	17	2400	11	20	1.36	1.36	2.49	22	1-Yr, 12-Hr
731	28	0400	7	20	0.40	0.40	0.96	24	
732	28	1400	7	15	0.21	0.28	0.75	13	
					September 1998				
733	1	0300	9	20	0.12	0.12	0.25	18	
734	7	0700	1	1	0.00	0.08	0.08	10	
735	13	1900	28	20	0.84	0.84	1.20	24	
736	18	1900	2	2	0.01	0.06	0.08	2	
737	24	0500	11	20	0.24	0.24	0.54	2	
738	25	0100	5	10	0.09	0.17	0.38	24	
739	29	0700	6	20	0.17	0.17	0.38	4	
740	30	1200	11	19	0.15	0.16	0.35	22	
					October 1998				
741	2	1600	10	15	0.05	0.06	0.13	2	
742	3	500	9	9	0.02	0.04	0.05	3	
743	5	100	15	20	0.52	0.52	1.04	6	
744	5	2200	19	20	0.10	0.10	0.19	13	
745	7	600	6	11	0.02	0.04	0.04	4	
746	16	1600	1	2	0.01	0.08	0.13	22	
747	16	2100	33	20	0.85	0.85	2.27	3	
748	21	100	9	6	0.03	0.09	0.21	19	
749	27	1700	8	20	0.35	0.35	0.76	2	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					October 1998 (Continued)				
750	28	500	5	7	0.01	0.04	0.05	13	
751	29	200	17	19	0.14	0.15	0.34	19	
					November 1998				
752	1	300	6	17	0.08	0.09	0.22	24	
753	1	1200	4	4	0.01	0.04	0.05	13	
754	1	2000	1	1	0.00	0.04	0.04	6	
755	1	2400	38	20	0.79	0.79	1.83	16	
756	6	1200	10	6	0.01	0.05	0.08	2	
757	7	900	3	4	0.01	0.04	0.04	2	
758	7	1900	21	20	0.12	0.12	0.17	9	
759	8	2100	1	1	0.00	0.04	0.04	8	
760	9	400	30	20	1.20	1.20	2.13	18	
761	28	900	1	1	0.00	0.04	0.04	4	
762	28	2300	3	2	0.00	0.04	0.04	10	
763	29	700	5	8	0.02	0.04	0.04	2	
764	29	2300	3	2	0.01	0.06	0.08	23	
765	30	500	16	20	0.52	0.52	0.99	12	
					December 1998				
766	1	0800	6	3	0.01	0.10	0.20	23	
767	6	0400	20	19	0.47	0.49	1.20	2	
768	18	2200	15	18	0.17	0.19	0.27	2	
769	20	1600	11	10	0.03	0.05	0.07	15	
770	21	0600	12	6	0.01	0.04	0.09	18	
771	30	1300	21	16	0.10	0.12	0.24	22	
					January 1999				
772	1	1200	30	16	0.53	0.66	1.87	3	
773	2	2300	6	7	0.01	0.03	0.04	13	
774	3	0900	10	4	0.01	0.06	0.10	18	
775	6	1200	4	4	0.01	0.04	0.05	18	
776	8	1400	8	17	0.04	0.04	0.08	19	
777	11	0400	12	15	0.05	0.07	0.25	22	
778	12	2400	5	5	0.01	0.04	0.04	9	
779	14	0900	4	6	0.01	0.04	0.04	6	
780	16	1000	3	10	0.02	0.04	0.04	6	
781	17	0400	1	1	0.00	0.04	0.04	22	
782	17	0900	5	20	0.41	0.41	0.55	19	
783	17	1700	4	20	0.07	0.07	0.22	11	
784	18	0500	6	10	0.02	0.04	0.05	3	
785	19	1200	1	2	0.00	0.04	0.04	23	
786	20	2000	3	4	0.01	0.05	0.08	2	
787	21	1400	32	20	0.97	0.97	1.46	11	
788	23	0300	15	20	0.36	0.36	0.61	9	
789	31	0700	10	20	0.32	0.32	0.55	16	
790	31	2300	2	2	0.00	0.05	0.05	13	
					February 1999				
791	1	100	1	7	0.01	0.03	0.05	22	
792	1	700	2	3	0.00	0.02	0.02	10	
793	2	100	11	17	0.07	0.08	0.13	6	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					February 1999 (Continued)				
794	7	100	17	20	0.60	0.60	0.90	19	
795	8	800	7	11	0.02	0.04	0.08	6	
796	9	1000	1	1	0.00	0.04	0.04	12	
797	9	1400	1	1	0.00	0.04	0.04	16	
798	11	1500	2	20	0.39	0.39	1.06	18	
799	16	900	8	13	0.03	0.05	0.08	19	
800	23	500	7	6	0.04	0.12	0.46	24	
801	24	100	6	4	0.01	0.04	0.04	9	
802	24	1900	7	16	0.05	0.06	0.12	23	
803	25	700	5	14	0.03	0.04	0.10	3	
804	26	1200	16	9	0.06	0.12	0.21	8	
805	27	800	2	5	0.01	0.04	0.05	3	
806	27	1400	4	3	0.01	0.04	0.04	7	
807	28	2400	1	1	0.00	0.04	0.04	23	
					March 1999				
808	1	0900	2	2	0.00	0.04	0.04	9	
809	2	0500	1	1	0.00	0.04	0.04	12	
810	2	1100	9	19	0.21	0.22	0.38	24	
811	5	1400	11	20	0.43	0.43	0.59	19	
812	8	1300	23	20	0.59	0.59	1.60	11	
813	28	0800	12	15	0.07	0.10	0.17	2	
					April 1999				
814	1	600	5	10	0.02	0.04	0.04	2	
815	3	700	9	20	0.50	0.50	0.72	16	
816	3	2200	9	18	0.10	0.11	0.19	3	
817	5	1100	3	17	0.06	0.07	0.15	13	
818	5	2000	1	2	0.00	0.04	0.04	10	
819	8	2000	3	16	0.17	0.21	0.57	22	
820	9	600	5	8	0.02	0.04	0.05	13	
821	15	200	38	20	1.87	1.87	2.42	16	
822	16	2300	4	8	0.03	0.08	0.12	19	
823	17	1000	4	6	0.01	0.04	0.04	11	
824	20	1800	3	3	0.01	0.04	0.05	13	
825	20	2400	2	9	0.24	0.54	0.85	19	
826	21	600	3	7	0.01	0.04	0.04	9	
827	22	800	5	20	0.19	0.19	0.36	9	
828	22	2000	7	20	0.25	0.25	0.38	18	
829	26	200	3	4	0.01	0.04	0.04	9	
830	26	2400	22	20	0.58	0.58	1.25	24	
831	28	100	16	20	0.44	0.44	1.14	19	
					May 1999				
832	4	2000	6	20	0.38	0.38	0.62	24	
833	5	500	6	9	0.02	0.05	0.08	18	
834	6	200	7	17	0.11	0.14	0.26	2	
835	11	1300	7	13	0.08	0.13	0.26	15	
836	12	500	6	11	0.04	0.08	0.22	9	
837	12	1400	31	20	1.89	1.89	3.04	9	1-Yr, 48-Hr

Table VIII-2. (Concluded)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					May 1999 (Continued)				
838	17	100	11	20	1.84	1.84	2.74	6	2-Yr, 12-Hr
839	21	1700	5	9	0.13	0.29	0.81	3	
840	22	200	3	3	0.01	0.04	0.04	3	
841	22	800	4	2	0.00	0.04	0.04	6	
842	23	700	9	15	0.09	0.12	0.28	3	
843	28	800	1	1	0.00	0.08	0.08	10	
844	28	1700	1	1	0.00	0.04	0.04	10	
845	31	600	2	2	0.00	0.04	0.04	19	
846	31	1400	4	2	0.02	0.23	0.34	19	
					June 1999				
847	1	1600	19	20	1.70	1.70	2.39	11	
848	4	1600	4	20	0.35	0.35	0.82	7	
849	8	1500	6	7	0.12	0.34	0.72	18	
850	10	1700	2	2	0.01	0.12	0.13	19	
851	11	1400	5	10	0.16	0.32	1.14	8	
852	12	100	36	20	1.39	1.39	2.09	24	
853	21	1800	1	1	0.00	0.07	0.07	24	
854	22	800	4	4	0.07	0.33	1.01	22	
855	24	100	2	2	0.02	0.22	0.34	4	
856	27	1900	14	15	0.57	0.76	1.85	16	
857	28	2000	2	5	0.02	0.07	0.09	19	
858	30	2300	2	18	0.08	0.09	0.30	24	
					July 1999				
859	1	100	10	18	1.17	1.30	1.94	23	
860	6	1300	4	6	0.04	0.14	0.33	24	
861	17	200	10	20	0.22	0.22	0.39	9	
862	19	1900	25	20	1.36	1.36	4.50	7	5-Yr, 48-Hr
863	23	1900	9	17	0.51	0.60	1.76	3	
864	24	700	4	10	0.02	0.04	0.05	3	
865	26	2100	5	15	0.28	0.37	0.74	20	
866	27	500	5	9	0.02	0.04	0.05	3	
867	28	200	25	20	0.85	0.85	1.85	2	
					August 1999				
868	4	1300	4	2	0.01	0.12	0.16	18	
869	7	900	6	20	0.30	0.30	0.43	20	
870	7	2000	4	16	0.16	0.20	0.80	18	
871	11	2100	15	19	0.74	0.77	1.78	7	
872	12	1900	6	18	0.82	0.91	3.18	24	5-Yr, 6-Hr
873	13	600	1	1	0.00	0.04	0.04	18	
874	18	900	7	6	0.06	0.20	0.67	24	
875	18	2300	2	7	0.03	0.08	0.09	11	
876	23	1700	11	20	1.16	1.16	2.03	2	
					September 1999				
877	12	1300	7	20	0.17	0.17	0.33	23	
878	13	600	4	9	0.02	0.04	0.05	3	
879	19	800	8	9	0.07	0.15	0.63	23	
880	19	2200	2	3	0.01	0.09	0.13	4	
881	27	200	4	8	0.05	0.12	0.38	16	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					September 1999 (Continued)				
882	27	1900	6	6	0.01	0.05	0.08	4	
883	28	400	4	14	0.04	0.06	0.22	12	
884	28	1100	20	20	0.53	0.53	0.75	16	
					October 1999				
885	2	1000	3	12	0.04	0.07	0.09	2	
886	3	500	18	20	0.76	0.76	1.05	16	
887	8	500	10	19	0.07	0.07	0.21	23	
888	9	1000	6	11	0.05	0.08	0.30	23	
889	10	800	4	7	0.01	0.04	0.04	2	
890	16	600	7	7	0.02	0.07	0.09	20	
					November 1999				
891	1	1300	5	3	0.01	0.04	0.05	3	
892	4	800	6	4	0.01	0.04	0.04	4	
893	5	500	9	11	0.02	0.04	0.04	3	
894	8	1000	4	9	0.02	0.04	0.05	13	
895	9	700	4	8	0.02	0.05	0.08	12	
896	10	900	4	4	0.01	0.04	0.05	13	
897	11	700	8	4	0.01	0.04	0.04	7	
898	12	700	5	11	0.02	0.04	0.04	6	
899	13	800	4	5	0.01	0.04	0.05	3	
900	18	800	4	9	0.02	0.04	0.04	2	
901	19	600	7	7	0.02	0.04	0.05	3	
902	20	600	8	5	0.01	0.04	0.04	9	
903	21	1000	1	4	0.01	0.04	0.04	6	
904	21	1400	2	4	0.01	0.04	0.05	13	
905	21	2000	17	16	0.04	0.05	0.08	4	
906	22	1800	24	19	0.27	0.28	0.47	7	
907	30	800	4	1	0.00	0.05	0.05	13	
					December 1999				
908	3	400	14	18	0.15	0.16	0.41	15	
909	4	500	39	20	1.49	1.49	1.91	19	
910	6	1000	5	3	0.01	0.04	0.04	10	
911	9	1600	7	20	0.11	0.11	0.16	7	
912	10	900	6	4	0.01	0.04	0.04	6	
913	12	100	3	3	0.01	0.04	0.04	12	
914	12	900	6	6	0.01	0.04	0.04	4	
915	13	1300	3	3	0.01	0.04	0.05	13	
916	15	400	12	20	0.21	0.21	0.35	8	
917	15	2300	3	2	0.01	0.06	0.09	9	
918	16	2300	3	3	0.01	0.04	0.05	13	
919	17	600	5	5	0.01	0.04	0.04	9	
920	22	700	1	1	0.00	0.05	0.05	13	
921	23	2100	10	16	0.05	0.06	0.09	6	
					January 2000				
922	1	1100	1	2	0.00	0.04	0.04	10	
923	3	1300	1	1	0.00	0.04	0.04	23	
924	3	1700	10	18	0.06	0.07	0.12	7	
925	8	1700	2	2	0.00	0.04	0.04	16	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					January (Continued) 2000				
926	8	2200	21	20	0.10	0.10	0.29	16	
927	9	2400	12	18	0.09	0.10	0.23	3	
928	19	1300	13	20	0.18	0.18	0.29	23	
929	20	900	4	1	0.01	0.14	0.14	3	
930	29	1200	26	20	0.17	0.17	0.34	13	
931	31	500	6	3	0.01	0.04	0.04	10	
932	31	1900	4	1	0.00	0.04	0.04	19	
					February 2000				
933	3	100	13	10	0.02	0.04	0.08	22	
934	3	1900	1	2	0.00	0.05	0.05	13	
935	4	600	7	10	0.02	0.04	0.04	7	
936	5	1300	5	3	0.01	0.04	0.05	13	
937	6	900	6	5	0.01	0.04	0.04	4	
938	7	900	7	8	0.02	0.04	0.05	3	
939	8	1000	3	3	0.01	0.04	0.04	7	
940	8	2000	4	2	0.00	0.04	0.04	2	
941	9	800	8	12	0.02	0.04	0.04	4	
942	10	600	7	8	0.03	0.07	0.13	22	
943	10	1900	3	3	0.01	0.04	0.05	13	
944	11	900	1	2	0.00	0.04	0.04	2	
945	12	900	4	4	0.01	0.04	0.04	4	
946	13	1000	10	17	0.06	0.07	0.12	16	
947	13	2300	15	16	0.03	0.04	0.08	9	
948	15	800	7	12	0.02	0.04	0.05	3	
949	17	1700	29	20	1.11	1.11	1.78	16	
950	19	1000	4	5	0.01	0.04	0.04	6	
951	24	100	10	20	0.20	0.20	0.37	10	
952	25	2100	14	5	0.02	0.08	0.13	8	
953	29	2100	4	20	0.43	0.43	0.59	4	
					March 2000				
954	1	100	3	10	0.02	0.04	0.05	3	
955	14	1800	17	16	0.07	0.08	0.15	13	
956	15	2300	13	20	0.44	0.44	0.69	16	
957	18	2400	40	20	1.06	1.06	1.60	16	
958	20	2000	1	2	0.00	0.05	0.05	13	
959	21	800	8	7	0.01	0.04	0.04	4	
960	24	900	2	2	0.00	0.04	0.04	2	
961	26	2100	3	16	0.09	0.11	0.22	2	
962	27	900	5	2	0.00	0.05	0.05	3	
					April 2000				
963	2	400	9	12	0.03	0.04	0.08	15	
964	7	700	9	15	0.10	0.13	0.33	2	
965	7	1900	8	10	0.02	0.04	0.04	6	
966	10	2100	6	20	0.31	0.31	0.63	16	
967	11	600	8	9	0.02	0.04	0.04	4	
968	16	1700	7	18	0.18	0.20	0.79	8	
969	17	300	7	4	0.01	0.05	0.09	8	
970	18	700	7	5	0.01	0.04	0.04	6	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					April 2000 (Continued)				
971	19	100	11	14	0.06	0.09	0.21	24	
972	19	1800	19	20	0.55	0.55	1.40	18	
973	20	1800	10	16	0.05	0.06	0.13	6	
974	21	900	3	2	0.00	0.05	0.05	13	
975	23	1800	21	20	0.24	0.24	0.55	23	
976	28	1500	10	4	0.03	0.13	0.23	13	
					May 2000				
977	1	900	9	20	0.10	0.10	0.25	7	
978	2	400	6	11	0.02	0.04	0.04	2	
979	6	2100	14	12	0.08	0.14	0.30	19	
980	8	2100	8	20	0.50	0.50	1.22	3	
981	9	800	10	20	0.14	0.14	0.39	6	
982	12	700	2	4	0.04	0.18	0.30	11	
983	12	1400	3	17	0.25	0.29	1.06	16	
984	17	900	11	11	0.12	0.21	0.37	2	
985	18	1600	5	6	0.02	0.08	0.13	9	
986	22	600	2	2	0.00	0.04	0.04	13	
987	22	2400	2	19	0.22	0.23	0.47	22	
988	23	600	3	7	0.01	0.04	0.05	13	
989	26	1000	16	20	1.81	1.81	2.82	10	2-Yr, 18-Hr
990	27	600	3	6	0.01	0.04	0.04	9	
991	27	1200	8	5	0.03	0.10	0.31	7	
992	31	500	11	19	1.07	1.13	2.87	13	2-Yr, 12-Hr
					June 2000				
993	1	1000	5	3	0.01	0.04	0.05	3	
994	4	1000	10	20	0.45	0.45	0.85	4	
995	5	100	12	10	0.02	0.04	0.04	2	
996	11	400	32	20	0.62	0.62	1.12	23	
997	12	2100	3	11	0.11	0.19	0.46	16	
998	13	400	5	9	0.02	0.04	0.05	3	
999	14	100	4	7	0.04	0.11	0.21	24	
1000	14	900	7	20	0.32	0.32	0.76	16	
1001	20	400	34	20	1.86	1.86	2.88	15	1-Yr, 48-Hr
1002	23	1500	29	20	0.76	0.76	3.71	24	2-Yr, 48-Hr
1003	25	300	9	5	0.01	0.04	0.05	13	
1004	25	2400	15	20	0.67	0.67	1.56	18	
					July 2000				
1005	3	100	10	20	0.39	0.39	0.88	13	
1006	4	1200	31	20	1.60	1.60	4.23	24	5-Yr, 48-Hr
1007	10	800	3	2	0.01	0.08	0.13	2	
1008	10	2300	13	20	0.93	0.93	2.01	22	
1009	18	2000	6	20	0.52	0.52	0.98	16	
1010	19	500	5	9	0.03	0.06	0.25	10	
1011	28	2000	16	18	0.36	0.40	1.13	12	
1012	29	1800	2	2	0.03	0.26	0.48	20	
1013	30	700	13	13	0.19	0.29	0.56	21	
1014	31	700	7	7	0.01	0.04	0.04	4	
1015	31	1700	8	20	0.41	0.41	1.84	22	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					August 2000				
1016	1	200	8	12	0.02	0.04	0.05	3	
1017	2	1900	1	2	0.01	0.08	0.13	22	
1018	5	600	14	20	0.93	0.93	1.92	6	
1019	6	100	8	5	0.02	0.07	0.17	24	
1020	8	700	7	20	0.21	0.21	0.38	24	
1021	17	1800	6	18	0.37	0.41	1.05	18	
1022	18	400	5	5	0.01	0.04	0.04	6	
1023	22	400	6	6	0.02	0.08	0.13	2	
1024	23	700	6	4	0.01	0.07	0.12	24	
1025	23	1800	4	12	0.17	0.28	0.70	11	
1026	24	600	5	10	0.02	0.04	0.04	6	
1027	26	800	7	12	0.14	0.23	0.69	12	
1028	26	2000	1	4	0.05	0.23	0.51	19	
1029	26	2400	3	3	0.01	0.04	0.04	18	
1030	27	900	1	2	0.00	0.04	0.04	8	
1031	28	800	4	4	0.01	0.05	0.09	2	
1032	31	2100	4	2	0.00	0.04	0.04	2	
					September 2000				
1033	3	1300	1	1	0.00	0.08	0.08	2	
1034	5	1000	2	1	0.01	0.12	0.12	10	
1035	11	2200	13	20	0.40	0.40	0.80	24	
1036	14	500	7	20	0.21	0.21	0.46	24	
1037	20	1200	6	20	0.34	0.34	0.43	18	
1038	21	700	4	6	0.01	0.04	0.05	3	
1039	23	200	4	2	0.01	0.08	0.12	2	
1040	23	2300	10	20	0.43	0.43	0.70	20	
1041	25	100	15	20	0.53	0.53	0.77	19	
1042	26	700	7	4	0.01	0.04	0.05	3	
					October 2000				
1043	4	100	8	20	0.54	0.54	0.94	4	
1044	4	2000	19	20	0.69	0.69	1.04	24	
1045	14	2000	9	20	0.38	0.38	0.56	16	
1046	15	800	6	6	0.01	0.04	0.05	3	
1047	16	1400	27	19	0.10	0.10	0.17	19	
1048	22	1000	2	1	0.00	0.08	0.08	24	
1049	23	1100	2	2	0.00	0.04	0.04	19	
1050	23	2000	6	12	0.06	0.10	0.22	9	
1051	24	500	8	6	0.01	0.04	0.04	9	
1052	25	1000	7	3	0.01	0.04	0.05	13	
					November 2000				
1053	1	800	2	4	0.01	0.04	0.04	9	
1054	2	600	4	4	0.01	0.04	0.04	11	
1055	3	800	4	5	0.01	0.04	0.04	4	
1056	4	1100	3	3	0.01	0.04	0.04	10	
1057	6	600	20	20	0.93	0.93	1.57	16	
1058	8	1800	25	20	0.69	0.69	0.96	22	
1059	12	2300	2	3	0.01	0.10	0.12	23	
1060	25	700	22	20	0.34	0.34	0.49	16	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					November 2000 (Continued)				
1061	26	800	7	5	0.01	0.04	0.04	4	
1062	28	800	7	8	0.02	0.04	0.05	3	
1063	28	2400	16	18	0.07	0.07	0.13	9	
					December 2000				
1064	1	100	15	19	0.07	0.07	0.14	3	
1065	11	400	19	20	0.38	0.38	0.51	3	
1066	12	700	5	4	0.01	0.04	0.05	3	
1067	13	900	18	20	0.27	0.27	0.48	3	
1068	14	800	7	17	0.05	0.06	0.12	23	
1069	15	1000	13	15	0.04	0.05	0.08	7	
1070	16	200	14	20	0.09	0.09	0.12	4	
1071	16	2300	4	4	0.01	0.05	0.08	22	
1072	18	1400	5	6	0.01	0.04	0.04	9	
1073	19	900	3	6	0.01	0.04	0.05	3	
1074	20	500	4	2	0.01	0.06	0.09	8	
1075	20	2400	6	7	0.01	0.04	0.05	3	
1076	21	1000	3	5	0.01	0.04	0.04	8	
1077	22	900	2	2	0.00	0.04	0.04	10	
1078	25	1000	1	1	0.00	0.04	0.04	15	
1079	26	1200	3	3	0.01	0.06	0.09	22	
1080	27	800	5	3	0.01	0.06	0.09	16	
1081	28	1700	4	10	0.03	0.05	0.09	13	
1082	28	2400	38	20	0.16	0.16	0.24	18	
1083	31	1000	1	1	0.00	0.05	0.05	3	
1084	31	2100	4	1	0.00	0.04	0.04	6	
					January 2001				
1085	1	900	3	4	0.01	0.04	0.04	4	
1086	2	1300	2	2	0.00	0.04	0.04	10	
1087	3	1300	1	1	0.00	0.05	0.05	3	
1088	8	600	8	6	0.01	0.04	0.04	10	
1089	9	1000	1	2	0.00	0.04	0.04	6	
1090	10	1000	7	5	0.01	0.05	0.08	21	
1091	10	2100	1	1	0.00	0.04	0.04	16	
1092	11	900	28	20	0.16	0.16	0.28	24	
1093	13	2000	9	20	0.25	0.25	0.34	16	
1094	14	800	15	9	0.02	0.05	0.10	13	
1095	15	700	1	1	0.00	0.04	0.04	7	
1096	15	1200	2	2	0.00	0.04	0.04	11	
1097	17	800	1	1	0.00	0.09	0.09	8	
1098	18	1100	4	2	0.00	0.04	0.04	21	
1099	26	500	17	20	0.20	0.20	0.38	3	
1100	28	900	37	20	2.44	2.44	3.12	16	1-Yr, 48-Hr
1101	30	300	15	20	0.25	0.25	0.41	16	
1102	31	900	5	3	0.01	0.06	0.09	11	
					February 2001				
1103	1	900	2	3	0.01	0.04	0.05	3	
1104	4	1200	4	2	0.00	0.04	0.04	2	
1105	6	300	8	12	0.03	0.05	0.08	4	

Table VIII-2. (Continued)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					February 2001 (Continued)				
1106	8	1800	24	20	0.58	0.58	0.80	16	
1107	13	1900	24	20	0.18	0.18	0.38	16	
1108	15	1200	1	1	0.00	0.04	0.04	2	
1109	17	1000	2	1	0.01	0.12	0.12	2	
1110	23	2400	32	20	2.04	2.04	3.00	16	1-Yr, 48-Hr
					March 2001				
1111	3	800	4	3	0.01	0.04	0.04	4	
1112	4	800	9	5	0.01	0.04	0.05	13	
1113	12	200	15	20	0.22	0.22	0.34	2	
1114	13	600	6	6	0.01	0.04	0.04	10	
1115	15	300	47	20	1.24	1.24	2.07	16	
1116	17	800	4	7	0.02	0.05	0.08	2	
1117	31	1300	12	17	0.04	0.05	0.12	6	
					April 2001				
1118	5	1200	23	19	0.74	0.78	2.01	4	
1119	9	500	5	18	0.15	0.16	0.26	18	
1120	9	2200	16	19	0.65	0.68	1.38	16	
1121	10	1900	9	19	0.51	0.54	1.05	3	
1122	11	700	12	19	0.36	0.38	0.59	16	
1123	14	2300	6	15	0.10	0.13	0.30	16	
1124	15	800	3	3	0.02	0.12	0.29	10	
1125	15	1600	7	3	0.01	0.05	0.05	3	
1126	19	2200	5	3	0.01	0.06	0.09	24	
1127	21	100	9	19	0.27	0.29	0.48	9	
1128	21	1500	21	19	0.25	0.26	0.84	4	
1129	23	1000	2	11	0.09	0.17	0.27	9	
1130	25	400	13	19	0.24	0.25	0.34	9	
1131	27	900	4	1	0.01	0.13	0.13	19	
					May 2001				
1132	4	1800	4	13	0.31	0.47	1.18	16	
1133	5	400	5	6	0.01	0.04	0.05	13	
1134	6	1400	6	19	0.22	0.23	0.46	3	
1135	6	2400	4	4	0.01	0.04	0.04	2	
1136	7	700	5	4	0.01	0.04	0.05	13	
1137	10	2400	10	18	0.64	0.71	1.14	2	
1138	14	200	12	20	0.42	0.42	0.94	16	
1139	17	400	8	19	0.31	0.33	0.76	2	
1140	17	2000	15	20	1.50	1.50	2.96	7	2-Yr, 48-Hr
1141	21	200	11	20	0.26	0.26	0.97	24	
1142	22	1300	5	4	0.01	0.07	0.13	18	
1143	26	400	16	20	0.28	0.28	0.44	11	
1144	27	800	3	2	0.00	0.04	0.04	7	
1145	30	2000	29	20	1.08	1.08	1.41	13	
					June 2001				
1146	1	100	30	20	0.46	0.46	0.70	9	
1147	2	1300	2	6	0.01	0.04	0.04	4	
1148	4	400	10	20	0.61	0.61	0.88	16	
1149	5	1100	5	3	0.02	0.12	0.17	3	

Table VIII-2. (Concluded)

Storm number	*Storm date*	*Start time*	*Storm duration*	*Number gauges*	*Network avg.*	*Storm avg.*	*Network max.*	*Gauge with max.*	*Storm recurrence frequency*
					June 2001 (Continued)				
1150	5	2100	12	19	0.76	0.80	1.73	2	
1151	14	1800	20	18	0.47	0.52	1.29	8	
1152	17	300	1	4	0.03	0.15	0.21	4	
1153	20	1000	2	1	0.01	0.12	0.12	10	
1154	21	100	14	19	0.68	0.72	1.23	16	
1155	27	1300	2	1	0.01	0.13	0.13	22	
1156	29	1700	6	2	0.03	0.29	0.38	19	
					July 2001				
1157	2	1000	3	2	0.00	0.04	0.04	16	
1158	3	900	6	13	0.09	0.13	0.33	3	
1159	11	1000	8	1	0.03	0.58	0.58	13	
1160	17	1500	4	7	0.14	0.41	1.10	18	
1161	18	600	8	20	0.33	0.33	0.83	19	
1162	19	900	7	20	0.25	0.25	1.14	18	
1163	20	700	3	6	0.01	0.04	0.04	12	
1164	23	1500	6	11	0.23	0.42	1.20	23	
1165	24	600	3	5	0.01	0.04	0.04	8	
1166	25	1800	8	8	0.23	0.57	1.22	11	
					August 2001				
1167	2	1700	18	20	0.71	0.71	1.23	8	
1168	8	800	2	1	0.01	0.12	0.12	10	
1169	9	2000	14	8	0.11	0.29	0.55	4	
1170	15	2300	13	20	0.25	0.25	0.47	7	
1171	18	1200	4	14	0.37	0.52	1.52	6	
1172	22	1800	15	20	1.72	1.72	3.21	24	2-Yr, 18-Hr
1173	23	1700	1	1	0.01	0.13	0.13	4	
1174	23	2100	4	4	0.08	0.39	0.96	7	
1175	24	500	8	13	0.04	0.06	0.13	13	
1176	24	1600	4	2	0.00	0.05	0.05	13	
1177	25	200	3	5	0.01	0.06	0.09	3	
1178	25	2000	6	18	0.39	0.44	1.02	16	
1179	26	600	7	9	0.02	0.04	0.04	4	
1180	30	2000	18	13	0.12	0.19	1.03	23	

Table VIII-3. Precipitation (inches) Received at Each Station from Each Storm Period during the Observation Period (September 1992-August 2000)

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*
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	0.06	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

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

Table VIII-3. (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
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	0.04	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
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
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	0.00	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

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

Table VIII-3. (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*
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
87	051293	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	0.00	0.04	0.00	0.00	0.00	0.00	0.07	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	071193	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	071293	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

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

Table VIII-3. (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
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
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
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

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

Table VIII-3. (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*
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	0.08	0.02	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
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

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

Table VIII-3. (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*
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	0.00	0.04	0.13	0.11	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
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	0.10	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

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

Table VIII-3. (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
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
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	0.07	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	0.08
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	0.00	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

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

Table VIII-3. (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*
283	011395	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	011795	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	011895	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
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**

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

Table VIII-3. (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
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	0.04	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	0.10	0.00	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	0.64	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
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

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

Table VIII-3. (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*
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	0.05	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	0.00	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
380	090695	1600	12	----	0.49	0.45	0.59	----	0.50	0.52	0.62	0.46	0.54	0.58	0.53	0.49	----	0.61	0.56	----	0.38	0.48	0.49	0.53	0.56	0.54	0.35	----
381	090795	1300	24	----	0.56	0.94	0.24	----	0.93	1.51	0.78	0.72	1.39	0.67	0.49	0.45	----	0.26	0.32	----	0.17	0.32	0.53	0.13	0.33	0.75	0.08	----
382	091795	1300	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	0.02	0.04	0.05	0.03	----
383	091995	1300	15	----	0.37	0.38	0.45	----	0.41	0.34	0.34	0.35	0.32	0.42	0.40	0.38	----	0.33	0.42	----	0.23	0.37	0.32	0.34	0.32	0.26	0.32	----
384	092195	0900	16	----	0.25	0.15	0.20	----	0.15	0.16	0.17	0.15	0.25	0.14	0.21	0.14	----	0.17	0.18	----	0.13	0.16	0.17	0.18	0.18	0.14	0.10	----
385	093095	1900	7	----	0.47	0.45	0.45	----	0.49	0.25	0.30	0.47	0.50	0.38	0.29	0.32	----	0.43	0.40	----	0.29	0.63	0.36	0.31	0.24	0.21	0.36	----
386	100295	2300	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	----	0.00	0.07	----	0.00	0.02	0.00	0.08	0.10	0.09	0.00	----
387	100595	1600	8	----	0.07	0.20	0.04	----	0.08	0.13	0.00	0.00	0.00	0.00	0.13	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
388	100695	1700	4	----	0.00	0.00	0.01	----	0.00	0.00	0.00	0.04	0.00	0.07	0.00	0.00	----	0.00	0.08	----	0.00	0.00	0.00	0.00	0.04	0.09	0.00	----
389	101395	1700	11	----	0.13	0.18	0.23	----	0.16	0.15	0.22	0.12	0.13	0.18	0.30	0.14	----	0.14	0.04	----	0.19	0.15	0.12	0.19	0.19	0.16	0.16	----
390	101995	1600	10	----	1.41	1.53	1.28	----	1.45	1.36	1.03	1.32	1.32	1.53	1.37	1.31	----	1.47	1.54	----	1.22	1.29	1.27	1.60	1.51	1.27	1.12	----
391	102095	1100	6	----	0.00	0.00	0.00	----	0.03	0.04	0.00	0.00	0.00	0.05	0.03	0.00	----	0.00	0.00	----	0.03	0.00	0.00	0.00	0.04	0.00	0.00	----
392	102395	1400	6	----	0.16	0.24	0.19	----	0.19	0.16	0.19	0.20	0.30	0.17	0.17	0.14	----	0.18	0.14	----	0.16	0.17	0.09	0.13	0.18	0.11	0.17	----
393	102695	1500	12	----	0.48	0.37	0.38	----	0.37	0.38	0.41	0.36	0.40	0.37	0.45	0.33	----	0.36	0.39	----	0.25	0.32	0.29	0.29	0.42	0.62	0.28	----
394	103095	1200	24	----	0.99	0.98	1.07	----	1.18	1.22	0.97	0.99	1.09	1.14	1.18	0.83	----	0.96	0.69	----	0.79	0.78	0.61	0.60	0.68	0.75	0.48	----
395	110195	1200	10	----	0.75	0.46	0.89	----	0.48	0.39	0.58	0.80	0.44	0.48	0.36	0.79	----	0.43	0.39	----	0.61	0.69	0.33	0.43	0.31	0.21	0.63	----
396	110295	0300	10	----	0.39	0.23	0.42	----	0.17	0.04	0.39	0.22	0.08	0.00	0.04	0.23	----	0.01	0.00	----	0.11	0.00	0.06	0.00	0.04	0.08	0.07	----
397	111095	1300	21	----	1.30	1.40	1.20	----	1.23	1.49	1.26	1.16	1.19	1.32	1.07	1.33	----	1.09	1.13	----	1.16	1.18	1.08	1.09	1.10	1.00	0.91	----
398	120795	1400	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	0.08	0.00	0.00	0.00	0.00	0.03	----
399	120895	0600	18	----	0.04	0.16	0.04	----	0.05	0.06	0.07	0.17	0.03	0.11	0.09	0.14	----	0.12	0.14	----	0.07	0.11	0.06	0.09	0.19	0.20	0.13	----
400	121795	2100	16	----	0.09	0.21	0.10	----	0.16	0.18	0.12	0.20	0.18	0.29	0.30	0.15	----	0.26	0.28	----	0.20	0.34	0.24	0.23	0.32	0.31	0.18	----
401	121895	2000	10	----	0.00	0.00	0.00	----	0.00	0.12	0.00	0.05	0.03	0.12	0.33	0.05	----	0.13	0.21	----	0.07	0.25	0.14	0.17	0.23	0.21	0.23	----
402	121995	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	0.04	0.00	0.00	0.00	0.00	0.00	----
403	010496	0300	17	----	0.09	0.15	0.05	----	0.09	0.11	0.04	0.09	0.12	0.10	0.11	0.09	----	0.13	0.11	----	0.14	0.13	0.10	0.05	0.16	0.13	0.13	----
404	010596	1100	11	----	0.01	0.00	0.01	----	0.07	0.10	0.02	0.00	0.00	0.00	0.06	0.04	----	0.06	0.00	----	0.01	0.00	0.00	0.00	0.00	0.00	0.00	----
405	011196	0200	11	----	0.12	0.10	0.16	----	0.08	0.07	0.14	0.16	0.04	0.03	0.08	0.11	----	0.08	0.00	----	0.07	0.14	0.10	0.00	0.14	0.12	0.00	----

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

Table VIII-3. (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*
406	011796	0700	4	----	0.08	0.00	0.14	----	0.00	0.00	0.33	0.22	0.00	0.00	0.00	0.11	----	0.00	0.00	----	0.30	0.08	0.00	0.00	0.00	0.00	0.16	----
407	011896	0100	22	----	0.35	0.36	0.98	----	0.53	0.32	0.75	0.37	0.39	0.35	0.32	0.43	----	0.42	0.36	----	0.57	0.48	0.34	0.42	0.44	0.40	0.88	----
408	012396	0100	13	----	0.10	0.08	0.09	----	0.06	0.07	0.06	0.05	0.10	0.08	0.17	0.10	----	0.17	0.08	----	0.08	0.19	0.11	0.14	0.10	0.05	0.12	----
409	012696	0700	12	----	0.23	0.21	0.18	----	0.16	0.15	0.18	0.18	0.12	0.02	0.11	0.19	----	0.10	0.08	----	0.29	0.20	0.09	0.05	0.06	0.04	0.20	----
410	013096	0800	9	----	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	----	0.05	0.00	0.00	0.04	0.00	0.00	0.00	----
411	020896	0500	5	----	0.05	0.04	0.03	----	0.04	0.03	0.01	0.00	0.03	0.00	0.03	0.00	----	0.02	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
412	022196	1500	8	----	0.04	0.01	0.02	----	0.03	0.03	0.02	0.00	0.02	0.02	0.11	0.00	----	0.02	0.00	----	0.03	0.00	0.02	0.03	0.03	0.04	0.00	----
413	022696	0900	5	----	0.04	0.08	0.40	----	0.85	0.72	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
414	022696	1900	13	----	1.22	0.40	1.28	----	0.34	0.51	0.79	0.69	0.58	0.48	0.43	0.58	----	0.47	0.48	----	0.44	0.67	0.64	0.43	0.53	0.91	0.64	----
415	030596	0100	12	----	1.35	1.28	1.19	----	1.09	1.10	1.26	1.15	1.04	0.98	1.02	1.06	----	1.21	1.08	----	1.04	1.26	1.22	1.18	1.00	1.11	1.18	----
416	030696	0200	14	----	0.07	0.05	0.05	----	0.08	0.01	0.08	0.13	0.05	0.04	0.09	0.06	----	0.12	0.08	----	0.03	0.11	0.05	0.08	0.05	0.10	0.01	----
417	031996	1700	14	----	0.07	0.02	0.00	----	0.00	0.01	0.05	0.09	0.00	0.07	0.01	0.00	----	0.01	0.06	----	0.06	0.09	0.01	0.24	0.05	0.05	0.00	----
418	032396	1300	6	----	0.00	0.00	0.01	----	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.01	----	0.00	0.02	----	0.00	0.02	0.00	0.03	0.05	0.00	0.04	----
419	032496	1900	7	----	0.75	0.29	0.82	----	0.35	0.27	0.66	0.75	0.42	0.46	0.31	0.72	----	0.41	0.29	----	0.82	0.62	0.42	0.36	0.33	0.49	0.80	----
420	032896	1200	12	----	0.12	0.10	0.07	----	0.10	0.10	0.16	0.04	0.11	0.06	0.10	0.10	----	0.10	0.13	----	0.16	0.09	0.10	0.12	0.10	0.09	0.07	----
421	033196	0100	13	----	0.05	0.03	0.02	----	0.04	0.03	0.01	0.02	0.06	0.05	0.03	0.03	----	0.13	0.02	----	0.00	0.07	0.08	0.16	0.03	0.08	0.03	----
422	041496	1800	19	----	1.13	1.03	1.00	----	0.99	0.88	0.81	1.09	0.91	0.91	0.94	0.99	----	0.84	0.78	----	0.97	1.08	0.79	0.78	0.75	0.70	1.02	----
423	041896	1600	5	----	0.18	0.23	0.53	----	0.78	0.94	0.58	0.32	0.17	0.11	0.11	0.15	----	0.17	0.14	----	0.20	0.59	0.47	0.32	0.52	0.33	0.00	----
424	041996	1000	2	----	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	----
425	041996	1600	4	----	0.09	0.06	0.20	----	0.30	0.27	0.60	0.58	0.70	1.14	0.65	1.00	----	0.15	0.10	----	0.20	0.00	0.00	0.00	0.00	0.00	0.00	----
426	042196	1900	15	----	0.28	0.35	0.26	----	0.45	0.61	0.26	0.41	0.72	0.71	0.77	0.29	----	1.16	1.49	----	0.54	0.90	1.13	0.48	0.59	0.37	0.49	----
427	042796	1900	41	----	0.46	0.50	0.42	----	0.48	0.35	0.44	0.44	0.32	0.39	0.36	0.48	----	0.36	0.40	----	0.52	0.65	0.42	0.40	0.41	0.17	0.65	----
428	050396	1800	18	----	0.47	0.27	0.15	----	0.19	0.32	0.38	0.41	0.30	0.28	0.18	0.41	----	0.40	0.25	----	0.38	0.48	0.33	0.30	0.38	0.34	0.47	----
429	050596	0600	6	----	0.10	0.09	0.05	----	0.04	0.04	0.22	0.14	0.07	0.05	0.04	0.01	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.13	----
430	050696	1900	12	----	0.15	0.13	0.19	----	0.10	0.07	0.38	0.34	0.25	0.23	0.19	0.37	----	0.34	0.24	----	0.49	0.60	0.40	0.41	0.43	0.31	0.55	----
431	050796	1400	6	----	0.00	0.00	0.00	----	0.00	0.00	0.02	0.02	0.00	0.02	0.05	0.03	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.03	0.00	0.00	----
432	050896	0100	14	----	1.03	0.86	0.99	----	1.05	1.05	1.23	1.08	1.10	1.08	1.09	1.12	----	0.99	0.89	----	1.66	1.63	1.18	1.17	1.11	1.00	**4.64**	----
433	050996	1200	2	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
434	051096	0200	21	----	0.81	0.78	0.51	----	0.51	0.38	0.58	0.52	0.21	0.21	0.41	0.41	----	0.37	0.40	----	0.64	0.56	0.43	0.60	0.83	0.68	0.38	----
435	051396	0300	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	0.03	0.00	0.00	0.00	0.00	----
436	051396	0900	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	0.04	0.00	----
437	051396	1400	6	----	0.05	0.03	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	----	0.03	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----
438	051496	1400	8	----	0.02	0.02	0.07	----	0.04	0.04	0.05	0.00	0.01	0.03	0.03	0.04	----	0.10	0.05	----	0.07	0.00	0.00	0.00	0.00	0.00	0.09	----
439	051596	0100	6	----	0.09	0.06	0.08	----	0.08	0.11	0.13	0.07	0.03	0.04	0.03	0.04	----	0.03	0.03	----	0.01	0.00	0.00	0.00	0.00	0.00	0.04	----
440	051696	0700	3	----	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	----	0.02	0.00	0.00	0.00	0.00	0.00	0.00	----
441	052096	1500	12	----	0.23	0.31	0.34	----	0.13	0.13	0.16	0.14	0.11	0.14	0.16	0.16	----	0.05	0.05	----	0.08	0.00	0.00	0.03	0.28	0.12	0.00	----
442	052396	0200	8	----	0.13	0.09	0.20	----	0.12	0.17	0.22	0.25	0.19	0.23	0.22	0.31	----	0.32	0.30	----	0.34	0.46	0.29	0.25	0.33	0.41	0.49	----
443	052496	0300	1	----	0.00	0.00	0.00	----	0.00	0.00	0.01	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	0.00	----
444	052496	0900	7	----	0.30	0.60	0.34	----	0.54	0.27	0.40	0.42	0.29	0.53	0.37	0.30	----	0.30	0.40	----	0.42	0.46	0.40	0.26	0.17	0.14	0.45	----
445	052596	0400	5	----	0.66	0.33	0.33	----	0.03	0.00	0.21	0.19	0.01	0.03	0.00	0.00	----	0.03	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
446	052596	1700	8	----	0.11	0.07	0.16	----	0.11	0.09	0.19	0.21	0.15	0.16	0.20	0.24	----	0.24	0.27	----	0.42	0.56	0.32	0.25	0.17	0.19	0.44	----

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

Table VIII-3. (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
447	052696	1100	7	----	0.35	0.32	0.34	----	0.26	0.25	0.41	0.45	0.35	0.59	0.62	0.47	----	0.47	0.42	----	0.57	0.68	0.50	0.73	0.47	0.30	0.74	----
448	052696	2300	12	----	1.30	1.83	1.13	----	1.46	1.16	1.06	1.40	1.06	1.35	1.09	1.01	----	1.08	1.09	----	0.93	1.36	0.92	1.10	1.13	1.01	0.97	----
449	052896	0600	6	----	0.00	0.13	0.00	----	0.20	0.09	0.00	0.00	0.08	0.00	0.00	0.00	----	0.05	0.00	----	0.04	0.00	0.04	0.00	0.00	0.00	0.00	----
450	052996	0700	8	----	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	0.04	0.00	0.00	0.00	0.00	----
451	053096	0600	3	----	0.01	0.00	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	----
452	053196	0800	1	----	0.01	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
453	060196	0600	19	----	0.57	0.70	0.72	----	0.63	0.43	0.89	0.69	0.52	0.70	0.47	0.75	----	0.65	0.70	----	0.21	0.78	0.70	0.86	0.67	0.79	0.79	----
454	060296	1900	5	----	0.23	0.29	0.39	----	0.56	0.45	0.54	0.51	0.35	0.45	0.41	0.28	----	0.13	0.24	----	0.19	0.09	0.12	0.13	0.20	0.27	0.02	----
455	060596	2100	5	----	0.05	0.04	0.21	----	0.25	0.36	0.17	0.33	0.14	0.30	0.53	0.16	----	0.18	0.24	----	0.06	0.17	0.15	0.11	0.10	0.15	0.18	----
456	060696	1800	4	----	0.24	1.30	0.08	----	0.48	0.45	0.22	0.65	0.60	0.78	0.35	0.29	----	0.57	1.35	----	0.08	0.41	0.70	0.70	0.42	0.26	0.14	----
457	060896	1800	15	----	0.00	0.02	0.04	----	0.02	0.02	0.05	0.06	0.03	0.03	0.04	0.04	----	0.04	0.04	----	0.01	0.09	0.07	0.02	0.05	0.03	0.03	----
458	060996	2100	8	----	0.10	0.07	0.11	----	0.08	0.05	0.18	0.34	0.08	0.06	0.07	0.12	----	0.07	0.09	----	0.03	0.10	0.08	0.11	0.09	0.08	0.08	----
459	061396	1400	8	----	0.06	0.13	0.00	----	0.02	1.13	0.00	0.00	0.23	0.74	1.12	0.00	----	0.05	0.78	----	0.09	0.00	0.20	0.10	0.30	1.21	0.06	----
460	061796	0500	2	----	0.05	0.03	0.00	----	0.00	0.20	0.00	0.00	0.00	0.00	0.12	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.07	0.07	0.00	----
461	061796	1700	11	----	0.19	0.12	0.10	----	0.11	0.00	0.10	0.05	0.00	0.00	0.37	0.10	----	0.03	0.23	----	0.09	0.17	0.07	0.41	0.09	0.36	0.41	----
462	062196	1800	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.12	0.00	0.00	----
463	062396	2100	5	----	0.46	0.39	0.69	----	0.58	0.20	0.61	0.99	0.82	0.71	0.56	0.98	----	0.87	0.66	----	0.20	0.76	0.65	0.31	0.39	0.27	0.20	----
464	071296	2200	6	----	0.00	0.00	0.10	----	0.00	0.00	0.26	0.14	0.00	0.00	0.00	0.34	----	0.10	0.07	----	0.23	0.14	0.14	0.25	0.34	0.41	0.21	----
465	071496	0300	21	----	0.44	0.38	0.54	----	0.40	0.45	0.57	0.68	0.59	0.80	0.82	0.77	----	1.02	0.54	----	0.55	0.35	0.33	0.34	0.48	0.54	0.32	----
466	071696	1200	2	----	0.00	0.01	0.00	----	0.06	0.05	0.00	0.00	0.04	0.07	0.02	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
467	072096	1200	23	----	1.44	1.31	1.04	----	0.89	0.92	0.83	1.06	1.00	1.17	1.04	1.07	----	1.20	1.07	----	0.91	1.18	1.09	1.14	1.07	1.34	0.80	----
468	072296	1700	4	----	0.11	0.29	0.13	----	0.04	0.11	0.20	0.09	0.10	0.07	0.06	0.16	----	0.09	0.08	----	0.08	0.19	0.19	0.07	0.14	0.07	0.27	----
469	072396	2000	10	----	0.03	0.10	0.17	----	0.14	0.48	0.25	0.15	0.29	0.35	0.23	0.60	----	0.28	0.21	----	0.01	0.09	0.10	0.29	0.30	0.21	0.22	----
470	072496	1100	4	----	0.11	0.06	0.06	----	0.13	0.05	0.05	0.04	0.09	0.07	0.00	0.08	----	0.34	0.05	----	0.22	0.25	0.11	0.27	0.23	0.24	0.22	----
471	072796	2300	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	0.03	0.02	0.00	----
472	072896	1400	8	----	0.07	1.19	0.00	----	0.00	0.36	0.00	0.00	0.00	0.04	0.49	0.00	----	0.03	0.00	----	0.00	0.68	0.49	0.45	0.37	0.02	0.00	----
473	073096	0100	5	----	0.35	0.35	0.65	----	0.17	0.06	0.56	0.92	0.71	0.59	0.37	0.20	----	1.15	0.81	----	0.00	0.00	0.02	0.09	0.08	0.30	0.00	----
474	080796	1700	5	----	1.05	0.00	0.10	----	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.03	----	0.00	0.00	----	0.15	0.00	0.00	0.00	0.00	0.00	0.05	----
475	081696	2100	39	----	0.75	0.60	0.82	----	0.47	0.61	0.81	0.93	0.55	0.57	0.63	1.04	----	0.74	0.74	----	1.26	1.39	1.04	1.16	1.11	1.06	1.54	----
476	081996	0200	3	----	0.06	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	0.00	0.00	0.00	----
477	082396	1100	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
478	090696	1700	6	----	0.24	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.12	----
479	090896	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	0.05	0.05	0.04	0.04	----
480	090896	1700	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.06	----
481	092396	0500	10	----	0.26	0.27	0.37	----	0.29	0.28	0.34	0.35	0.31	0.33	0.34	0.34	----	0.36	0.37	----	0.39	0.41	0.34	0.34	0.35	0.37	0.39	----
482	092596	1600	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.00	----	0.00	0.08	----	0.00	0.08	0.00	0.06	0.10	0.08	0.10	----
483	092596	2300	27	----	1.28	1.30	1.21	----	1.21	1.19	1.43	1.05	1.22	0.99	1.15	1.38	----	1.19	0.77	----	0.96	1.42	1.13	0.88	0.59	1.09	1.62	----
484	100796	1200	1	----	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	----
485	100796	1800	10	----	0.34	0.32	0.00	----	0.53	0.52	0.28	0.25	0.33	0.41	0.49	0.32	----	0.38	0.57	----	0.37	0.39	0.33	0.35	0.55	0.67	0.39	----
486	100896	1500	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	0.04	0.00	----
487	101796	0200	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	----	0.10	0.00	----	0.00	0.00	0.06	0.00	0.00	0.00	0.00	----

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

Table VIII-3. (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*
488	101796	1200	10	----	0.56	0.76	0.49	----	0.66	0.42	0.35	0.72	0.36	0.71	0.60	0.56	----	0.94	0.54	----	0.52	0.43	0.80	0.45	0.89	1.24	0.41	----
489	102196	0400	6	----	0.04	0.02	0.00	----	0.01	0.03	0.03	0.00	0.03	0.00	0.00	0.00	----	0.04	0.00	----	0.02	0.00	0.02	0.00	0.00	0.00	0.06	----
490	102196	1300	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	0.02	----	0.00	0.00	0.00	0.00	0.00	0.03	0.00	----
491	102196	1900	1	----	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	----
492	102196	2400	20	----	0.75	0.46	0.72	----	0.55	0.53	0.79	0.69	0.59	0.68	0.53	0.66	----	0.64	0.67	----	0.83	0.75	0.72	0.62	0.75	0.73	0.93	----
493	102296	2300	9	----	0.04	0.05	0.02	----	0.04	0.05	0.09	0.06	0.08	0.09	0.11	0.02	----	0.03	0.07	----	0.09	0.08	0.04	0.09	0.04	0.04	0.10	----
494	102996	1400	6	---	0.20	0.12	0.24	---	0.17	0.20	0.20	0.22	0.12	0.17	0.23	0.18	----	0.21	0.20	----	0.43	0.13	0.14	0.20	0.20	0.16	0.16	----
495	110496	1700	10	---	0.03	0.08	0.06	----	0.00	0.06	0.06	0.04	0.00	0.00	0.07	0.02	----	0.01	0.02	----	0.03	0.00	0.00	0.00	0.00	0.00	0.03	----
496	110696	0700	19	----	1.47	1.08	1.10	----	1.09	1.07	1.01	1.39	0.94	1.23	1.06	1.16	----	1.13	1.46	----	0.87	1.07	0.98	1.10	1.23	1.17	1.18	----
497	110796	0500	9	----	0.00	0.06	0.00	----	0.04	0.07	0.00	0.00	0.04	0.06	0.12	0.00	----	0.05	0.15	----	0.00	0.10	0.09	0.16	0.25	0.24	0.06	----
498	111696	2000	15	----	0.27	0.17	0.00	----	0.23	0.21	0.24	0.00	0.27	0.20	0.21	0.20	----	0.22	0.22	----	0.28	0.27	0.25	0.16	0.20	0.19	0.29	----
499	112096	2300	17	----	0.11	0.05	0.00	----	0.01	0.05	0.15	0.00	0.10	0.09	0.07	0.09	----	0.11	0.22	----	0.01	0.13	0.07	0.05	0.09	0.13	0.08	----
500	112396	0900	10	----	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	0.02	0.00	0.00	0.00	0.00	----
501	112496	0300	17	----	0.28	0.19	0.19	----	0.20	0.27	0.16	0.00	0.21	0.30	0.27	0.17	----	0.28	0.32	----	0.24	0.32	0.30	0.34	0.29	0.19	0.20	----
502	112996	1400	14	----	0.60	0.23	0.38	----	0.31	0.32	0.37	0.41	0.29	0.26	0.33	0.36	----	0.33	0.59	----	0.31	0.38	0.31	0.32	0.39	0.36	0.31	----
503	113096	2300	2	----	0.00	0.02	0.00	----	0.02	0.04	0.00	0.00	0.04	0.02	0.02	0.02	----	0.04	0.02	----	0.08	0.05	0.04	0.01	0.00	0.00	0.02	----
504	120196	0100	12	----	0.11	0.08	0.15	----	0.15	0.07	0.11	0.16	0.11	0.09	0.08	0.12	----	0.09	0.20	----	0.11	0.21	0.06	0.20	0.05	0.04	0.10	----
505	120496	2300	15	----	0.16	0.23	0.00	----	0.09	0.13	0.21	0.18	0.13	0.28	0.08	0.11	----	0.14	0.15	----	0.09	0.15	0.10	0.06	0.13	0.17	0.18	----
506	121196	0400	4	----	0.04	0.01	0.00	----	0.03	0.03	0.06	0.00	0.03	0.06	0.03	0.00	----	0.00	0.04	----	0.00	0.04	0.04	0.00	0.05	0.21	0.03	----
507	121496	2400	4	----	0.06	0.03	0.00	----	0.03	0.05	0.00	0.01	0.03	0.09	0.08	0.00	----	0.05	0.07	----	0.02	0.03	0.04	0.07	0.04	0.04	0.00	----
508	122396	0300	14	----	0.75	0.90	0.45	----	0.96	0.60	0.44	0.72	0.67	0.48	0.26	0.92	----	0.32	0.25	----	1.17	0.59	0.34	0.07	0.00	0.23	0.74	----
509	010497	1000	6	----	0.08	0.03	0.00	----	0.00	0.06	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	----
510	010897	2300	14	----	0.15	0.09	0.03	----	0.10	0.31	0.00	0.00	0.09	0.16	0.33	0.22	----	0.23	0.15	----	0.21	0.23	0.13	0.18	0.06	0.21	0.00	----
511	010997	1800	10	----	0.06	0.05	0.11	----	0.08	0.04	0.00	0.00	0.05	0.00	0.00	0.04	----	0.00	0.04	----	0.09	0.00	0.00	0.02	0.09	0.00	0.00	----
512	011297	1100	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	0.13	0.00	0.00	0.15	----
513	011297	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	0.04	0.00	0.00	0.14	----
514	011597	0300	36	----	0.22	0.37	0.00	----	0.32	0.29	0.00	0.00	0.40	0.43	0.23	0.41	----	0.25	0.19	----	0.37	0.32	0.26	0.00	0.36	0.44	0.00	----
515	012197	1300	5	----	0.08	0.10	0.00	----	0.00	0.07	0.00	0.00	0.04	0.06	0.07	0.00	----	0.03	0.08	----	0.00	0.00	0.04	0.00	0.06	0.00	0.00	----
516	012197	2400	4	----	0.05	0.11	0.00	----	0.10	0.05	0.00	0.12	0.08	0.04	0.05	0.09	----	0.04	0.07	----	0.11	0.07	0.05	0.00	0.05	0.00	0.00	----
517	012297	0900	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	----
518	012497	0900	8	----	0.35	0.27	0.28	----	0.26	0.36	0.35	0.36	0.36	0.24	0.43	0.30	----	0.31	0.39	----	0.33	0.30	0.35	0.28	0.44	0.00	0.00	----
519	012697	0500	9	----	0.07	0.17	0.13	----	0.06	0.07	0.05	0.14	0.06	0.14	0.12	0.14	----	0.07	0.07	----	0.17	0.19	0.12	0.06	0.18	0.00	0.00	----
520	012697	2300	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	----	0.02	0.00	0.00	0.00	0.00	0.00	0.00	----
521	012797	0700	11	----	0.19	0.14	0.00	----	0.16	0.12	0.19	0.27	0.10	0.25	0.09	0.13	----	0.14	0.15	----	0.41	0.23	0.14	0.18	0.07	0.00	0.00	----
522	020297	1500	8	----	0.00	0.00	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	0.00	----
523	020397	0500	3	----	0.00	0.00	0.00	----	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	----	0.01	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
524	020397	1100	27	----	0.12	0.15	0.00	----	0.08	0.11	0.10	0.11	0.10	0.08	0.08	0.15	----	0.12	0.19	----	0.21	0.19	0.12	0.07	0.12	0.00	0.14	----
525	021597	1600	13	----	0.07	0.14	0.03	----	0.05	0.13	0.02	0.03	0.07	0.06	0.08	0.06	----	0.09	0.08	----	0.00	0.05	0.06	0.06	0.00	0.09	0.07	----
526	021997	0300	8	----	0.05	0.05	0.00	----	0.05	0.00	0.00	0.00	0.06	0.00	0.03	0.00	----	0.06	0.00	----	0.04	0.00	0.02	0.00	0.00	0.00	0.00	----
527	022097	1100	39	----	**3.56**	2.38	**3.02**	----	2.19	1.80	2.64	2.69	2.14	1.78	1.51	2.59	----	1.85	1.95	----	2.51	2.21	1.66	1.43	0.00	1.22	2.34	----
528	022697	0400	35	----	1.66	1.26	1.28	----	1.23	1.45	1.10	1.34	1.32	1.46	1.43	1.33	----	1.34	1.96	----	0.77	1.48	1.30	1.28	0.00	1.38	1.23	----

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

Table VIII-3. (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*
529	022897	1700	8	----	0.25	0.18	0.18	----	0.13	0.14	0.17	0.16	0.11	0.17	0.06	0.16	----	0.18	0.17	----	0.00	0.30	0.17	0.09	0.00	0.08	0.05	----
530	030197	0100	21	----	0.06	0.07	0.17	----	0.13	0.10	0.20	0.13	0.12	0.05	0.10	0.09	----	0.09	0.10	----	0.06	0.06	0.08	0.04	0.00	0.15	0.06	----
531	030997	0500	9	----	0.75	0.87	0.88	----	0.74	0.50	0.96	0.80	0.50	0.72	0.72	0.95	----	0.67	1.25	----	1.26	0.94	0.88	1.10	1.11	1.12	0.91	----
532	031397	1400	13	----	0.54	0.46	0.00	----	0.48	0.59	0.35	0.50	0.52	0.57	0.35	0.46	----	0.18	0.71	----	0.53	0.54	0.52	0.18	0.29	0.48	0.42	----
533	031897	0100	11	----	0.08	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	----	0.00	0.09	----	0.00	0.20	0.09	0.05	0.00	0.00	0.08	----
534	032497	1200	5	----	0.30	0.24	0.35	----	0.29	0.28	0.37	0.37	0.35	0.18	0.31	0.34	----	0.14	0.29	----	0.38	0.34	0.30	0.25	0.34	0.23	0.25	----
535	032497	2300	7	----	0.14	0.05	0.11	----	0.10	0.07	0.13	0.11	0.14	0.01	0.02	0.13	----	0.00	0.03	----	0.16	0.06	0.06	0.00	0.05	0.01	0.14	----
536	032797	2400	5	----	0.03	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	----	0.00	0.04	----	0.06	0.04	0.00	0.00	0.00	0.00	0.04	----
537	033097	0400	9	----	0.15	0.08	0.08	----	0.09	0.11	0.05	0.09	0.11	0.09	0.12	0.08	----	0.09	0.13	----	0.08	0.05	0.07	0.10	0.05	0.05	0.00	----
538	040497	1400	34	----	0.80	0.49	0.25	----	0.35	0.32	0.34	0.24	0.28	0.14	0.50	0.22	----	0.22	0.37	----	0.38	0.34	0.27	0.17	0.23	0.32	1.32	----
539	040697	0300	4	----	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	0.05	0.00	0.00	----
540	041097	1200	35	----	1.52	1.38	1.53	----	0.93	1.00	0.98	0.98	0.89	0.95	0.77	0.90	----	0.70	0.62	----	0.66	0.95	0.56	0.43	0.38	0.44	0.74	----
541	041297	1100	14	----	0.00	0.00	0.08	----	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.10	0.00	0.00	0.00	----
542	041597	2300	4	----	0.09	0.04	0.00	----	0.11	0.04	0.07	0.09	0.10	0.06	0.09	0.13	----	0.14	0.18	----	0.18	0.12	0.11	0.12	0.00	0.11	0.08	----
543	041897	1700	9	----	0.17	0.00	0.00	----	0.18	0.00	0.02	0.04	0.00	0.00	0.09	0.11	----	0.00	0.07	----	0.00	0.00	0.04	0.04	0.00	0.03	0.00	----
544	042097	1600	8	----	0.00	0.00	0.00	----	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	----	0.07	0.19	----	0.13	0.13	0.19	0.09	0.00	0.08	0.22	----
545	042197	0700	15	----	0.00	0.26	0.00	----	0.07	0.00	0.00	0.00	0.08	0.12	0.03	0.00	----	0.01	0.03	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
546	042797	0200	10	----	0.05	0.08	0.00	----	0.07	0.04	0.00	0.00	0.05	0.00	0.06	0.00	----	0.07	0.06	----	0.06	0.04	0.08	0.00	0.00	0.06	0.00	----
547	043097	0500	2	----	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	----
548	043097	1200	4	----	0.24	0.33	0.00	----	0.24	0.15	0.21	0.24	0.25	0.19	0.11	0.12	----	0.31	0.00	----	0.11	0.20	0.50	0.09	0.29	0.18	0.16	----
549	050297	0600	5	----	0.09	0.07	0.04	----	0.04	0.03	0.06	0.00	0.04	0.04	0.07	0.07	----	0.05	0.05	----	0.07	0.18	0.08	0.05	0.04	0.08	0.08	----
550	050297	2400	9	----	0.25	0.22	0.48	----	0.25	0.25	0.50	0.82	0.44	0.37	0.32	0.61	----	0.42	0.41	----	0.72	0.68	0.60	0.46	0.49	0.36	0.40	----
551	050397	1200	4	----	0.02	0.04	0.03	----	0.00	0.08	0.02	0.00	0.13	0.02	0.03	0.00	----	0.07	0.03	----	0.00	0.00	0.04	0.08	0.03	0.07	0.00	----
552	050797	1300	4	----	0.00	0.06	0.00	----	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	----	0.02	0.00	----	0.00	0.05	0.02	0.00	0.00	0.00	0.00	----
553	050797	2200	9	----	0.20	0.24	0.25	----	0.28	0.27	0.37	0.31	0.31	0.33	0.30	0.64	----	0.45	0.40	----	0.64	0.74	0.80	0.66	0.67	0.67	0.39	----
554	051197	1500	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	0.02	0.03	0.00	0.03	----
555	051397	2400	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	----	0.00	0.12	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
556	051697	1600	2	----	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	----
557	051697	2100	6	----	0.00	0.03	0.02	----	0.06	0.05	0.00	0.00	0.26	0.00	0.04	0.00	----	0.00	0.34	----	0.00	0.00	0.04	0.02	0.00	0.29	0.00	----
558	051897	0700	6	----	0.07	0.13	0.08	----	0.07	0.00	0.09	0.10	0.07	0.07	0.08	0.08	----	0.12	0.11	----	0.11	0.09	0.12	0.09	0.09	0.11	0.09	----
559	051897	2100	11	----	0.18	0.20	0.15	----	0.18	0.25	0.16	0.17	0.22	0.27	0.35	0.64	----	0.33	0.25	----	0.51	0.38	0.36	0.57	0.63	0.47	0.35	----
560	052497	1500	6	----	0.05	0.06	0.00	----	0.04	0.04	0.00	0.00	0.05	0.00	0.10	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.05	0.10	0.17	0.00	----
561	052597	1600	27	----	0.71	0.74	1.11	----	0.72	1.07	1.45	1.35	1.14	1.20	1.89	1.70	----	1.89	2.63	----	1.14	0.57	0.76	0.73	0.90	1.08	1.15	----
562	052797	1500	9	----	0.13	0.15	0.26	----	0.18	0.12	0.30	0.37	0.27	0.25	0.16	0.22	----	0.27	0.25	----	0.24	0.29	0.33	0.20	0.32	0.24	0.34	----
563	052897	1400	9	----	0.00	0.05	0.00	----	0.00	0.08	0.00	0.00	0.08	0.00	0.29	0.14	----	0.00	0.05	----	0.00	0.02	0.00	0.03	0.00	0.28	0.00	----
564	060197	1400	18	----	0.08	0.14	0.00	----	0.09	0.10	0.00	0.00	0.06	0.07	0.12	0.00	----	0.00	0.00	----	0.02	0.00	0.05	0.05	0.09	0.19	0.00	----
565	060697	0400	12	----	0.82	0.56	0.00	----	0.30	0.89	0.34	0.38	0.00	0.43	0.46	0.23	----	0.41	0.27	----	0.25	0.19	0.33	0.43	0.46	0.56	0.34	----
566	060797	1300	20	----	0.15	0.10	0.00	----	0.30	0.18	0.32	0.41	0.00	0.29	0.43	0.36	----	0.25	0.36	----	0.98	0.38	0.26	0.29	0.18	0.27	0.75	----
567	060897	1200	3	----	0.00	0.03	0.00	----	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	----	0.00	0.02	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
568	061097	2200	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.09	0.00	0.00	0.00	0.00	0.40	----
569	061197	2000	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.13	0.00	0.10	0.00	0.56	0.28	0.00	----

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

Table VIII-3. (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*
570	061297	0900	10	----	1.34	1.16	0.00	----	1.41	1.04	0.90	1.18	0.00	0.87	0.69	0.62	----	0.00	1.62	----	0.05	0.07	0.03	0.00	0.04	0.14	0.00	----
571	061597	2100	8	----	0.04	0.08	0.00	----	0.03	0.00	0.04	0.11	0.00	0.04	0.02	0.09	----	0.00	0.03	----	0.02	0.00	0.03	0.15	0.00	0.00	0.09	----
572	062097	0800	4	----	0.07	0.00	0.00	----	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	1.03	----	0.00	0.00	0.09	0.00	0.10	0.05	0.00	----
573	062197	0500	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	0.12	0.05	0.00	0.00	0.00	0.26	----
574	062597	1500	6	----	0.10	0.38	0.00	----	0.07	0.08	0.08	0.00	0.06	0.10	0.07	0.06	----	0.00	0.09	----	0.09	0.06	0.08	0.05	0.08	0.10	0.07	----
575	062997	1500	2	----	0.00	0.00	0.00	----	0.00	0.00	0.18	0.49	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.12	0.00	0.08	0.28	0.00	0.00	----
576	063097	0300	3	----	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	0.24	0.16	0.00	0.00	0.00	0.00	----
577	063097	1200	13	----	0.07	0.00	0.15	----	0.00	0.27	0.15	0.00	0.09	0.03	0.13	0.23	----	0.00	0.08	----	0.05	0.07	0.62	0.24	0.10	0.00	0.72	----
578	070397	1000	14	----	0.22	0.10	0.00	----	0.20	0.15	0.26	0.22	0.00	0.25	0.27	0.32	----	0.44	0.56	----	0.30	0.33	0.35	0.36	0.41	0.37	0.28	----
579	071397	1500	2	----	0.00	0.00	0.00	----	0.00	0.00	0.19	0.00	0.00	0.17	0.00	0.00	----	0.00	0.00	----	0.00	0.12	0.00	0.00	0.00	0.04	0.00	----
580	071997	1200	11	----	0.21	0.47	0.00	----	0.20	0.37	1.00	1.25	1.03	0.96	0.39	1.65	----	0.81	1.23	----	0.23	**2.74**	**3.89**	**3.98**	**2.64**	1.05	1.28	----
581	072097	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	0.08	0.00	----
582	072197	0500	19	----	0.07	0.37	0.00	----	0.75	1.02	0.34	0.42	1.12	1.28	1.28	0.98	----	1.14	1.16	----	0.49	0.12	0.07	0.24	0.11	0.08	0.20	----
583	072797	1700	8	----	0.16	0.07	0.00	----	0.00	0.30	0.00	0.07	0.00	0.00	0.03	0.99	----	0.88	0.37	----	1.77	0.00	0.59	0.29	0.75	0.60	0.00	----
584	080397	1700	15	----	0.69	0.59	0.00	----	0.08	0.15	1.53	0.68	0.58	0.07	0.05	1.14	----	0.43	0.31	----	0.65	0.78	1.07	0.42	0.23	0.08	0.57	----
585	080897	2400	10	----	0.78	0.58	0.00	----	0.12	0.53	0.26	0.74	1.01	0.65	0.41	0.52	----	1.29	0.62	----	0.15	1.03	0.98	0.47	0.47	0.30	0.20	----
586	080997	1600	2	----	0.00	0.00	0.00	----	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
587	081197	0100	4	----	0.10	0.38	0.00	----	0.12	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	0.00	0.00	----
588	081197	2000	5	----	0.07	0.00	0.00	----	0.00	0.00	0.00	0.11	0.00	0.04	0.17	0.00	----	0.07	0.17	----	0.00	0.06	0.08	0.24	0.45	0.21	0.06	----
589	081297	1300	6	----	0.04	0.25	0.00	----	0.20	0.23	0.00	0.47	0.83	0.48	0.36	0.09	----	0.10	0.23	----	0.00	0.43	0.25	0.20	0.35	0.41	0.00	----
590	081597	0100	5	----	0.15	0.19	0.00	----	0.18	0.21	0.20	0.35	0.17	0.23	0.24	0.24	----	0.28	0.49	----	0.15	0.29	0.27	0.39	0.46	0.64	0.19	----
591	081697	2300	15	----	**3.06**	**2.44**	0.00	----	1.49	1.78	0.06	1.46	1.13	1.96	1.27	1.24	----	1.70	1.64	----	1.14	1.39	1.59	1.36	1.12	1.70	1.18	----
592	081797	1900	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	0.07	0.00	0.00	0.00	0.00	0.00	----
593	081997	0800	9	----	0.21	0.18	0.00	----	0.24	0.29	0.39	0.28	0.26	0.24	0.21	0.39	----	0.26	0.33	----	0.43	0.29	0.24	0.00	0.16	0.21	0.48	----
594	082197	0700	2	----	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	----
595	082197	1500	8	----	0.16	0.11	0.00	----	0.06	0.04	0.18	0.14	0.09	0.03	0.00	0.07	----	0.10	0.18	----	0.11	0.06	0.02	0.17	0.16	0.04	0.04	----
596	082497	1300	11	----	0.29	0.06	0.00	----	0.44	0.30	0.00	0.92	0.00	0.00	0.29	0.11	----	0.54	0.13	----	0.00	0.88	0.78	0.72	0.17	0.04	0.08	----
597	082697	0600	4	----	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	----	0.15	0.08	0.00	0.00	0.00	0.00	0.18	----
598	083097	0700	8	----	0.13	0.56	0.00	----	0.58	0.51	0.42	0.34	0.28	0.72	0.94	0.62	----	0.36	0.53	----	0.44	0.32	0.38	0.38	0.49	0.18	0.21	----
599	090297	1000	13	----	0.28	0.39	0.00	----	0.33	0.60	0.81	0.42	0.71	0.40	0.65	1.08	----	0.93	0.73	----	1.01	1.66	0.00	1.31	1.75	1.27	0.26	----
600	090797	1600	13	----	0.32	0.51	0.00	----	0.21	0.94	0.07	0.15	0.00	0.05	0.58	0.07	----	0.08	0.10	----	0.00	0.00	0.00	0.10	0.00	0.28	0.17	----
601	090897	1300	11	----	**2.80**	0.64	0.00	----	**2.40**	**2.95**	0.18	0.88	0.35	0.00	0.40	0.42	----	0.13	0.26	----	0.25	0.18	0.00	0.21	0.41	0.45	0.11	----
602	090997	1100	10	----	0.25	0.16	0.00	----	0.28	0.04	0.21	0.00	0.70	0.00	0.09	0.00	----	0.35	0.10	----	0.00	0.00	0.83	0.45	0.08	0.09	0.00	----
603	091697	1800	11	----	0.30	0.16	0.00	----	0.13	0.20	0.21	0.00	0.17	0.18	0.17	0.18	----	0.24	0.24	----	0.22	0.20	0.25	0.27	0.28	0.25	0.30	----
604	092297	1900	24	----	0.26	0.26	0.00	----	0.23	0.24	0.27	0.00	0.26	0.30	0.31	0.29	----	0.41	0.45	----	0.41	0.44	0.40	0.31	0.33	0.33	0.38	----
605	100497	0500	8	----	0.04	0.04	0.05	----	0.10	0.04	0.11	0.00	0.05	0.00	0.08	0.03	----	0.03	0.03	----	0.06	0.00	0.04	0.00	0.00	0.00	0.00	----
606	100897	2300	11	----	0.01	0.03	0.06	----	0.03	0.03	0.05	0.00	0.12	0.00	0.08	0.00	----	0.08	0.11	----	0.07	0.00	0.04	0.04	0.04	0.16	0.08	----
607	101297	2100	15	----	0.62	0.68	0.37	----	0.65	0.66	0.32	0.00	0.59	0.64	0.67	0.00	----	0.66	0.97	----	0.30	0.46	0.45	0.57	0.69	0.59	0.39	----
608	102397	1700	10	----	0.25	0.10	0.16	----	0.12	0.03	0.15	0.03	0.06	0.07	0.00	0.00	----	0.15	0.00	----	0.05	0.00	0.04	0.00	0.22	0.05	0.11	----
610	102597	1800	29	----	0.47	0.55	0.00	----	0.40	0.53	0.59	0.50	0.37	0.55	0.50	0.53	----	0.51	0.00	----	0.52	0.53	0.41	0.00	0.52	0.32	0.48	----
609	102497	1400	12	----	0.19	0.14	0.16	----	0.08	0.18	0.23	0.15	0.14	0.10	0.14	0.22	----	0.18	0.05	----	0.17	0.13	0.12	0.00	0.07	0.10	0.22	----

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

Table VIII-3. (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
611	103197	2100	4	----	0.12	0.12	0.00	----	0.08	0.07	0.00	0.00	0.08	0.00	0.10	0.00	----	0.16	0.00	----	0.21	0.00	0.06	0.00	0.08	0.00	0.00	----
612	110197	0100	5	----	0.04	0.06	0.00	----	0.00	0.13	0.28	0.00	0.05	0.16	0.23	0.14	----	0.14	0.00	----	0.04	0.26	0.04	0.00	0.08	0.30	0.18	----
613	110297	0900	8	----	0.00	0.00	0.07	----	0.07	0.06	0.06	0.14	0.08	0.02	0.06	0.06	----	0.15	0.00	----	0.05	0.00	0.07	0.06	0.02	0.09	0.00	----
614	110397	1600	5	----	0.00	0.00	0.00	----	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	----	0.01	0.00	----	0.01	0.00	0.00	0.00	0.00	0.00	0.00	----
615	110597	0800	28	----	1.06	1.04	1.29	----	1.02	0.84	1.34	1.24	1.13	0.99	0.93	1.29	----	1.22	1.58	----	1.33	1.56	1.24	1.06	1.06	0.90	1.47	----
616	112797	1300	5	----	0.24	0.13	0.23	----	0.16	0.19	0.14	0.19	0.14	0.18	0.21	0.10	----	0.16	0.19	----	0.11	0.11	0.13	0.08	0.13	0.19	0.14	----
617	112897	0400	8	----	0.42	0.46	0.38	----	0.45	0.37	0.35	0.45	0.55	0.63	0.71	0.66	----	0.49	0.00	----	0.37	0.41	0.41	0.59	0.68	0.52	0.41	----
618	112897	2200	8	----	0.15	0.15	0.06	----	0.06	0.10	0.08	0.00	0.03	0.00	0.06	0.06	----	0.06	0.02	----	0.07	0.00	0.00	0.00	0.00	0.03	0.06	----
619	112997	1100	35	----	0.84	0.49	1.06	----	0.78	0.67	1.05	1.05	1.09	0.93	1.23	1.45	----	1.43	1.38	----	0.87	1.41	1.45	1.24	1.53	1.01	0.73	----
620	120397	0300	6	----	0.12	0.10	0.12	----	0.12	0.18	0.13	0.13	0.11	0.19	0.21	0.12	----	0.12	0.26	----	0.12	0.21	0.15	0.19	0.28	0.28	0.09	----
621	120497	1800	12	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.03	----	0.00	0.00	----	0.05	0.03	0.10	0.10	0.00	0.00	0.00	----
622	120897	1300	8	----	0.00	0.04	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.05	0.00	----	0.06	0.05	0.05	0.00	0.00	0.00	0.00	----
623	120997	1600	22	----	0.07	0.39	0.30	----	0.26	0.43	0.38	0.41	0.22	0.17	0.37	0.20	----	0.15	0.20	----	0.11	0.41	0.32	0.38	0.13	0.33	0.43	----
624	122197	0800	5	----	0.04	0.00	0.02	----	0.02	0.03	0.00	0.00	0.04	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.02	0.00	0.00	0.00	0.00	----
625	122197	1600	21	----	0.24	0.38	0.19	----	0.32	0.25	0.16	0.21	0.30	0.28	0.33	0.20	----	0.22	0.60	----	0.22	0.00	0.17	0.16	0.33	0.21	0.12	----
626	122497	0500	20	----	0.51	0.61	0.68	----	0.53	0.52	0.61	0.68	0.62	0.62	0.62	0.59	----	0.67	0.79	----	0.56	0.00	0.65	0.68	0.65	0.64	0.62	----
627	122997	0300	13	----	0.08	0.08	0.04	----	0.08	0.09	0.00	0.04	0.07	0.04	0.08	0.10	----	0.01	0.00	----	0.09	0.12	0.03	0.09	0.05	0.04	0.07	----
628	123097	0800	11	----	0.03	0.01	0.07	----	0.06	0.00	0.00	0.05	0.07	0.00	0.06	0.00	----	0.05	0.00	----	0.11	0.08	0.12	0.05	0.05	0.06	0.05	----
629	123097	2300	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	----	0.03	0.00	0.00	0.00	0.00	0.00	0.00	----
630	010498	0700	10	----	0.44	0.61	0.37	----	0.41	0.45	0.35	0.45	0.46	0.57	0.46	0.37	----	0.45	0.79	----	0.39	0.53	0.47	0.48	0.57	0.54	0.36	----
631	010598	0300	14	----	0.28	0.27	0.29	----	0.26	0.26	0.18	0.22	0.30	0.25	0.22	0.28	----	0.27	0.18	----	0.26	0.30	0.27	0.27	0.13	0.15	0.19	----
632	010698	0200	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	0.04	0.00	0.00	0.00	0.00	0.02	----
633	010698	1200	20	----	0.53	0.43	0.55	----	0.58	0.41	0.56	0.53	0.54	0.60	0.29	0.42	----	0.59	0.53	----	0.52	0.69	0.62	0.57	0.44	0.38	0.52	----
634	010798	1200	33	----	1.02	0.61	1.67	----	0.84	0.92	1.25	1.48	1.00	0.90	1.11	1.22	----	1.47	0.88	----	1.15	1.79	1.25	1.31	0.81	0.90	1.31	----
635	010998	1000	7	----	0.02	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	0.10	0.00	0.00	0.00	0.00	0.00	----
636	011498	1200	6	----	0.23	0.16	0.05	----	0.00	0.10	0.23	0.20	0.13	0.12	0.11	0.16	----	0.06	0.14	----	0.19	0.25	0.16	0.10	0.00	0.07	0.21	----
637	011598	0900	9	----	0.08	0.00	0.00	----	0.00	0.04	0.09	0.00	0.09	0.07	0.14	0.00	----	0.00	0.08	----	0.08	0.00	0.00	0.06	0.00	0.08	0.00	----
638	012298	1700	3	----	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	0.00	0.00	0.00	0.00	0.00	0.00	----
639	012498	0200	12	----	0.00	0.08	0.03	----	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	----
640	012498	1700	2	----	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	----
641	013198	1100	7	----	0.00	0.00	0.00	----	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	----
642	021098	0700	11	----	0.14	0.22	0.20	----	0.25	0.24	0.23	0.25	0.40	0.26	0.33	0.21	----	0.30	0.40	----	0.21	0.35	0.26	0.23	0.38	0.42	0.39	----
643	021098	2300	23	----	1.32	1.53	1.61	----	1.33	1.29	1.48	1.42	1.40	1.32	1.26	1.44	----	1.31	1.87	----	1.41	1.83	1.25	1.12	1.13	1.03	1.57	----
644	021698	0900	11	----	0.12	0.20	0.15	----	0.08	0.14	0.08	0.12	0.10	0.11	0.19	0.17	----	0.17	0.33	----	0.15	0.32	0.16	0.12	0.12	0.13	0.17	----
645	021798	0500	15	----	0.10	0.06	0.13	----	0.11	0.11	0.12	0.10	0.12	0.10	0.15	0.17	----	0.13	0.15	----	0.08	0.22	0.23	0.20	0.17	0.13	0.16	----
646	021898	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	0.02	0.00	0.04	0.00	0.00	0.00	----
647	021998	1500	12	----	0.08	0.10	0.16	----	0.12	0.14	0.02	0.28	0.23	0.11	0.11	0.08	----	0.14	0.21	----	0.04	0.06	0.13	0.12	0.11	0.17	0.00	----
648	022698	1500	19	----	0.55	0.51	0.58	----	0.46	0.58	0.62	0.61	0.59	0.52	0.67	0.53	----	0.59	0.90	----	0.67	0.67	0.54	0.57	0.63	0.63	0.84	----
649	030798	1900	19	----	1.17	1.08	1.19	----	1.03	0.94	0.96	1.00	1.03	1.05	1.14	1.05	----	1.07	1.66	----	0.94	1.35	0.97	0.78	1.02	1.05	1.09	----
650	030898	1700	20	----	0.72	0.41	0.67	----	0.59	0.42	0.47	0.60	0.64	0.45	0.61	0.46	----	0.58	0.80	----	0.80	0.97	0.55	1.05	0.64	0.63	0.76	----
651	031698	0200	13	----	0.04	0.05	0.04	----	0.04	0.04	0.00	0.04	0.04	0.00	0.00	0.05	----	0.04	0.04	----	0.04	0.04	0.04	0.00	0.00	0.04	0.04	----

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

Table VIII-3. (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*
652	031698	2000	30	----	1.54	1.50	1.70	----	1.40	1.27	1.60	1.65	1.49	1.10	1.16	1.50	----	1.19	1.93	----	1.43	1.94	1.32	1.15	1.19	1.37	1.45	----
653	031998	1900	22	----	0.36	0.33	0.61	----	0.36	0.40	0.48	0.57	0.40	0.46	0.70	0.62	----	0.64	0.69	----	0.45	0.82	0.56	0.87	0.48	0.61	0.56	----
654	032798	2000	12	----	0.50	0.51	0.25	----	0.47	0.47	0.21	0.34	0.47	0.42	0.70	0.27	----	0.50	1.07	----	0.29	0.38	0.56	0.55	0.48	0.65	0.41	----
655	032898	2400	9	----	0.04	0.00	0.17	----	0.21	0.13	0.04	0.04	0.13	0.12	0.09	0.09	----	0.12	0.13	----	0.04	0.21	0.04	0.07	0.35	0.13	0.17	----
656	033198	0200	20	----	0.29	0.26	0.32	----	0.28	0.24	0.29	0.37	0.25	0.41	0.20	0.33	----	0.25	0.40	----	0.28	0.29	0.20	0.23	0.20	0.25	0.36	----
657	040398	1100	12	----	0.08	0.07	0.07	----	0.14	0.28	0.00	0.08	0.21	0.15	0.18	0.23	----	0.27	0.51	----	0.24	0.37	0.30	0.33	0.36	0.56	0.38	----
658	040798	0800	12	----	1.45	0.33	0.90	----	0.42	0.18	0.54	0.74	0.12	0.12	0.09	1.71	----	0.11	0.20	----	0.60	0.19	0.16	0.12	0.34	0.20	0.16	----
659	040898	2400	13	----	0.19	0.18	0.26	----	0.14	0.21	0.10	0.11	0.13	0.14	0.19	0.07	----	0.16	0.17	----	0.18	0.17	0.14	0.04	0.09	0.08	0.08	----
660	041398	1000	14	----	0.61	0.62	0.74	----	0.84	0.82	0.75	0.98	0.91	0.89	0.79	0.00	----	0.97	1.07	----	1.02	1.09	1.06	0.80	1.15	1.09	1.16	----
661	041598	0200	5	----	0.21	0.13	0.19	----	0.12	0.14	0.33	0.29	0.17	0.27	0.15	0.34	----	0.20	0.26	----	0.37	0.51	0.13	0.08	0.18	0.16	0.46	----
662	041598	2200	2	----	0.12	0.10	0.18	----	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	0.00	0.00	----
663	042198	1800	3	----	0.13	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	0.00	0.00	0.00	0.00	0.00	0.00	----
664	042198	2400	7	----	0.00	0.00	0.04	----	0.07	0.00	0.00	0.00	0.06	0.07	0.11	0.00	----	0.08	0.13	----	0.03	0.06	0.02	0.00	0.00	0.00	0.04	----
665	042898	1500	16	----	0.93	0.73	1.05	----	0.58	0.68	0.78	0.86	0.94	0.00	0.65	0.53	----	1.22	0.95	----	0.70	0.99	1.16	0.91	0.79	0.79	0.84	----
666	042998	1800	3	----	0.63	0.07	0.00	----	0.34	0.06	0.00	0.00	0.38	0.00	0.00	0.00	----	0.23	0.38	----	0.00	0.00	0.00	0.31	0.08	0.00	0.00	----
667	043098	0100	4	----	0.00	0.00	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	0.10	0.21	0.00	0.00	0.00	----
668	043098	0800	17	----	0.32	0.43	0.25	----	0.54	0.32	0.38	0.16	0.36	0.00	0.49	0.56	----	0.23	0.26	----	0.77	0.59	1.17	0.69	0.51	0.42	0.90	----
669	050198	0100	18	----	0.23	0.12	0.28	----	0.04	0.12	0.40	0.05	0.13	0.00	0.00	0.35	----	0.20	0.09	----	0.13	0.64	0.01	0.00	0.06	0.24	0.12	----
670	050298	0900	5	----	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	0.11	0.00	----
671	050298	1700	13	----	0.09	0.99	0.00	----	0.00	0.00	0.00	0.12	0.32	0.21	0.18	0.00	----	0.11	0.12	----	0.13	0.00	0.00	0.00	0.02	0.12	0.00	----
672	050398	1900	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
673	050598	1700	8	----	**2.48**	1.38	1.99	----	1.52	1.46	0.43	0.19	0.43	0.46	0.20	0.02	----	0.00	0.00	----	0.00	0.00	0.00	0.01	0.00	0.00	0.00	----
674	050698	0600	13	----	0.30	0.83	0.60	----	0.13	0.21	0.15	0.16	0.22	0.00	0.18	0.12	----	0.00	0.12	----	0.00	0.00	0.00	0.00	0.00	0.00	0.02	----
675	050798	0200	34	----	1.59	0.72	1.58	----	1.97	0.63	0.94	2.23	1.56	1.60	0.79	1.20	----	1.98	**2.83**	----	0.17	0.42	1.18	1.22	**3.00**	1.01	0.21	----
676	050998	0900	22	----	0.00	0.00	0.06	----	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	----	0.00	0.17	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
677	051298	0500	8	----	0.12	0.00	0.13	----	0.08	0.00	0.21	0.08	0.15	0.07	0.00	0.22	----	0.09	0.00	----	0.13	0.10	0.08	0.08	0.09	0.04	0.00	----
678	051298	1800	8	----	0.71	0.17	0.87	----	0.19	0.10	0.61	0.28	0.23	0.29	0.07	0.42	----	0.19	0.74	----	0.18	0.72	0.58	0.70	0.78	0.30	0.03	----
679	051598	1900	13	----	0.06	0.29	0.44	----	0.73	0.36	0.88	0.56	0.43	0.41	0.45	0.43	----	0.50	0.33	----	0.90	0.37	0.52	0.21	0.40	0.40	0.27	----
680	051998	1700	27	----	0.70	0.29	0.85	----	0.75	0.70	1.31	1.16	0.00	0.46	0.38	0.31	----	0.75	0.47	----	0.16	0.29	0.23	0.32	0.33	0.25	0.33	----
681	052298	0400	8	----	0.62	0.55	0.73	----	0.57	0.60	0.48	0.39	0.00	0.60	0.69	0.58	----	0.51	0.64	----	0.54	0.63	0.52	0.39	0.43	0.43	0.50	----
682	052298	2200	2	----	0.00	0.09	0.04	----	0.00	0.04	0.22	0.30	0.00	0.25	0.13	0.40	----	0.30	0.48	----	0.17	0.35	0.26	0.17	0.22	0.13	0.38	----
683	052398	2100	8	----	0.83	0.50	0.51	----	1.35	1.34	0.44	0.57	0.00	1.25	0.99	0.64	----	0.51	0.56	----	0.58	0.46	0.52	0.43	0.48	0.43	0.67	----
684	052598	1900	4	----	0.00	0.00	0.04	----	0.00	0.04	0.17	0.17	0.00	0.08	0.00	0.27	----	0.04	0.08	----	0.08	0.13	0.13	0.09	0.12	0.13	0.13	----
685	060398	1000	4	----	0.08	0.08	0.13	----	0.13	0.08	0.12	0.13	0.12	0.12	0.08	0.18	----	0.09	0.13	----	0.13	0.12	0.13	0.13	0.12	0.16	0.22	----
686	060498	2200	9	----	0.09	0.10	0.08	----	0.08	0.26	0.21	0.26	0.21	0.21	0.30	0.18	----	0.29	0.20	----	0.20	0.33	0.20	0.25	0.25	0.13	0.23	----
687	060898	0800	7	----	0.43	0.29	0.39	----	0.30	0.34	0.43	0.42	0.41	0.39	0.34	0.41	----	0.39	0.47	----	0.49	0.56	0.42	0.38	0.42	0.43	0.60	----
688	060898	1900	10	----	0.79	0.82	0.68	----	0.77	0.68	0.53	0.55	0.61	0.55	0.55	0.77	----	0.82	0.94	----	0.88	0.81	0.69	0.74	0.65	0.98	0.45	----
689	061198	0200	3	----	0.00	0.00	0.00	----	0.04	0.04	0.00	0.10	0.04	0.08	0.22	0.05	----	0.56	0.52	----	0.04	0.77	0.74	0.39	0.53	0.09	0.08	----
690	061198	0800	8	----	0.67	0.77	0.46	----	0.61	0.38	0.62	0.64	0.58	0.33	0.38	0.90	----	0.38	0.65	----	0.45	0.64	0.65	0.87	0.82	1.15	0.71	----
691	061498	0400	5	----	0.46	0.28	0.55	----	0.52	0.47	0.44	0.48	0.46	0.48	0.47	0.45	----	0.39	0.47	----	0.43	0.43	0.35	0.35	0.35	0.35	0.47	----
692	061498	1300	18	----	1.34	0.68	1.58	----	0.91	0.82	0.79	1.19	0.33	0.44	0.60	0.68	----	0.09	0.08	----	0.04	0.08	0.08	0.04	0.09	0.00	0.19	----

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

Table VIII-3. (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*
693	061598	1500	18	----	1.21	0.87	0.41	----	1.13	0.73	0.12	0.24	0.78	1.57	0.81	0.72	----	0.72	1.81	----	0.04	0.17	0.38	0.34	0.92	1.59	0.08	----
694	061698	1800	1	----	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	----
695	061898	1700	6	----	0.51	0.24	0.38	----	0.39	0.35	0.12	0.07	0.33	0.61	0.48	0.18	----	0.34	0.38	----	0.25	0.30	0.52	0.35	0.61	0.48	0.55	----
696	061998	1300	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
697	062098	2400	10	----	0.26	0.16	0.77	----	0.25	0.17	0.29	0.67	0.46	0.21	0.17	1.11	----	0.51	0.39	----	0.80	0.95	0.87	0.30	0.30	0.34	0.87	----
698	062298	0700	6	----	0.25	0.20	0.42	----	0.25	0.25	0.04	0.52	0.67	0.61	0.52	0.32	----	0.39	0.47	----	0.38	0.51	0.48	0.69	0.52	0.52	0.63	----
699	062298	1600	4	----	0.16	0.23	0.25	----	0.48	0.53	0.22	0.59	0.80	0.42	0.43	0.14	----	0.43	0.30	----	0.46	0.30	0.53	0.40	0.83	0.51	0.32	----
700	062898	1900	15	----	0.17	0.16	0.04	----	0.34	0.60	0.08	0.15	1.03	0.86	0.91	0.94	----	0.34	0.64	----	1.30	1.15	1.53	1.48	1.96	1.03	1.73	----
701	062998	1500	9	----	0.55	0.55	0.60	----	0.48	0.43	0.66	0.73	0.67	0.43	0.42	0.97	----	0.55	0.56	----	1.48	1.33	0.87	0.73	0.74	0.64	0.97	----
702	070198	1400	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	0.13	----
703	070398	1500	5	----	0.04	0.00	0.00	----	0.08	0.04	0.18	0.00	0.00	0.08	0.43	0.31	----	0.22	1.08	----	0.08	0.08	0.21	0.17	0.04	0.08	0.04	----
704	070398	2400	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.13	0.00	----	0.00	0.04	0.00	0.04	0.00	0.04	0.00	----
705	070698	0700	3	----	0.00	0.00	0.00	----	0.00	0.00	0.18	0.16	0.00	0.00	0.00	0.23	----	0.00	0.00	----	0.00	0.04	0.04	0.00	0.00	0.00	0.38	----
706	070798	0500	2	----	0.13	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	0.00	0.00	0.00	0.00	0.00	0.00	----
707	070798	1000	7	----	0.85	1.22	0.47	----	0.74	0.53	0.48	0.50	1.16	1.52	1.68	2.13	----	1.29	0.86	----	1.27	1.71	1.49	1.61	1.22	1.04	0.17	----
708	070998	1600	4	----	0.17	0.00	0.64	----	0.00	0.17	0.13	0.00	0.71	0.74	0.00	0.00	----	0.00	0.34	----	0.59	0.35	0.00	0.00	0.00	0.22	0.46	----
709	071898	0300	7	----	0.00	0.00	0.04	----	0.21	0.00	0.22	0.12	0.04	0.04	0.08	0.84	----	0.00	0.04	----	0.00	0.56	0.92	0.13	0.08	0.00	0.00	----
710	071998	2000	1	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.09	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	----
711	072098	0700	3	----	0.04	0.00	0.04	----	0.00	0.00	0.13	0.04	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.30	0.39	0.17	0.26	0.22	0.09	----
712	072098	2200	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
713	072298	0800	14	----	0.08	0.00	0.04	----	0.13	0.17	0.08	0.30	0.66	0.99	0.77	1.12	----	0.59	0.64	----	0.46	0.51	0.21	0.29	0.34	0.20	1.00	----
714	072398	0700	2	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.04	0.00	0.04	0.04	0.04	----
715	073098	0400	9	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.04	0.08	0.05	----	0.00	0.04	----	0.25	0.28	0.29	0.12	0.16	0.17	0.55	----
716	073098	2100	4	----	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	----
717	080398	1000	8	----	0.00	0.00	0.00	----	0.04	0.04	0.00	0.08	0.00	0.04	0.08	0.14	----	0.00	0.13	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
718	080398	2100	2	----	0.04	0.00	0.09	----	0.18	0.26	0.00	0.00	0.08	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
719	080498	0200	10	----	0.12	0.05	0.08	----	0.12	0.12	0.12	0.08	0.20	0.12	0.13	0.10	----	0.12	0.12	----	0.21	0.17	0.12	0.13	0.08	0.08	0.54	----
720	080498	1700	7	----	0.84	0.55	0.90	----	0.64	0.48	0.70	1.26	0.91	0.65	0.65	0.99	----	1.16	0.30	----	1.09	1.16	1.13	0.96	1.27	0.95	1.84	----
721	080598	0300	19	----	0.04	0.00	0.00	----	0.04	0.21	0.22	0.04	0.00	0.26	0.59	0.00	----	0.12	0.65	----	0.04	0.04	0.00	0.48	0.25	0.21	0.04	----
722	080698	1400	1	----	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	----
723	080798	2300	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.40	----	0.00	0.00	----	0.21	0.21	0.00	0.00	0.00	0.00	0.09	----
724	080998	1600	2	----	0.00	0.14	0.00	----	0.00	0.00	0.84	0.00	0.00	0.31	0.00	0.13	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
725	081098	0500	6	----	0.00	0.05	0.00	----	0.00	0.00	0.08	0.00	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
726	081198	1500	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
727	081298	0700	1	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
728	081598	1300	1	----	0.00	0.18	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
729	081798	1400	7	----	0.46	0.23	0.00	----	0.43	0.30	0.00	0.00	0.00	0.16	0.38	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.08	0.21	----
730	081798	2400	11	----	1.26	1.13	0.95	----	1.83	1.48	0.61	0.57	1.54	1.69	2.00	1.15	----	0.90	2.29	----	0.76	0.86	1.04	1.43	2.49	1.90	1.34	----
731	082898	0400	7	----	0.29	0.09	0.37	----	0.34	0.30	0.34	0.53	0.37	0.43	0.30	0.80	----	0.30	0.43	----	0.93	0.26	0.21	0.26	0.24	0.21	0.96	----
732	082898	1400	7	----	0.00	0.05	0.00	----	0.00	0.00	0.27	0.09	0.00	0.04	0.12	0.75	----	0.30	0.21	----	0.12	0.34	0.44	0.44	0.57	0.22	0.29	----
733	090198	0300	9	----	0.12	0.04	0.16	----	0.08	0.04	0.17	0.17	0.08	0.08	0.12	0.14	----	0.17	0.08	----	0.25	0.12	0.12	0.08	0.08	0.12	0.12	----

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

Table VIII-3. (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
734	090798	0700	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
735	091398	1900	28	----	1.03	0.70	0.87	----	0.71	0.74	1.14	0.93	0.85	0.92	0.54	1.08	----	0.78	0.78	----	1.03	1.09	0.83	0.67	0.45	0.36	1.20	----
736	091898	1900	2	----	0.08	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	0.00	0.00	0.00	0.00	0.00	0.00	----
737	092498	0500	11	----	0.54	0.45	0.22	----	0.13	0.34	0.13	0.17	0.12	0.13	0.08	0.19	----	0.25	0.25	----	0.08	0.21	0.21	0.25	0.29	0.29	0.42	----
738	092598	0100	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	----	0.08	0.04	----	0.13	0.22	0.26	0.22	0.25	0.04	0.38	----
739	092998	0700	6	----	0.17	0.04	0.38	----	0.08	0.08	0.21	0.34	0.29	0.22	0.12	0.13	----	0.12	0.12	----	0.12	0.21	0.12	0.08	0.22	0.08	0.20	----
740	093098	1200	11	----	0.08	0.09	0.04	----	0.13	0.17	0.04	0.09	0.16	0.09	0.04	0.00	----	0.08	0.26	----	0.12	0.21	0.34	0.30	0.35	0.35	0.08	----
741	100298	1600	10	----	0.13	0.05	0.12	----	0.04	0.00	0.04	0.00	0.04	0.04	0.04	0.00	----	0.04	0.04	----	0.04	0.08	0.12	0.00	0.00	0.04	0.04	----
742	100398	500	9	----	0.04	0.05	0.04	----	0.04	0.00	0.00	0.04	0.00	0.04	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.04	0.00	0.04	----
743	100598	100	15	----	0.59	0.47	0.34	----	1.04	0.38	0.43	0.26	0.49	0.69	0.35	0.46	----	0.64	0.68	----	0.42	0.54	0.43	0.65	0.68	0.43	0.51	----
744	100598	2200	19	----	0.04	0.10	0.04	----	0.08	0.16	0.04	0.08	0.12	0.04	0.17	0.19	----	0.08	0.16	----	0.08	0.08	0.08	0.12	0.16	0.12	0.12	----
745	100798	600	6	----	0.00	0.00	0.04	----	0.04	0.04	0.04	0.00	0.00	0.04	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.04	0.04	0.04	0.04	0.04	----
746	101698	1600	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	0.13	0.04	0.00	----
747	101698	2100	33	----	0.78	2.27	0.92	----	0.94	0.81	0.90	0.89	0.70	0.72	0.63	0.95	----	0.69	0.93	----	0.87	0.84	0.64	0.52	0.51	0.75	0.74	----
748	102198	100	9	----	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	0.21	0.12	0.04	0.00	0.00	0.08	----
749	102798	1700	8	----	0.76	0.50	0.17	----	0.25	0.34	0.26	0.36	0.21	0.17	0.17	0.40	----	0.38	0.56	----	0.25	0.30	0.34	0.30	0.29	0.43	0.63	----
750	102898	500	5	----	0.00	0.00	0.00	----	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.05	----	0.00	0.04	----	0.04	0.04	0.00	0.00	0.00	0.04	0.00	----
751	102998	200	17	----	0.00	0.05	0.04	----	0.04	0.04	0.04	0.12	0.12	0.08	0.12	0.14	----	0.16	0.20	----	0.16	0.34	0.16	0.21	0.29	0.21	0.25	----
752	110198	300	6	----	0.04	0.00	0.04	----	0.04	0.00	0.04	0.08	0.08	0.04	0.00	0.10	----	0.08	0.08	----	0.08	0.16	0.12	0.12	0.12	0.08	0.22	----
753	110198	1200	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.05	----	0.00	0.04	----	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
754	110198	2000	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	----
755	110198	2400	38	----	0.75	0.76	1.02	----	0.75	0.66	0.95	1.01	0.81	1.02	1.27	1.23	----	0.99	1.83	----	0.21	0.29	0.16	0.21	0.87	0.71	0.25	----
756	110698	1200	10	----	0.08	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----	0.04	0.00	----	0.00	0.04	0.00	0.00	0.04	0.04	0.00	----
757	110798	900	3	----	0.04	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	----
758	110798	1900	21	----	0.13	0.14	0.12	----	0.12	0.08	0.08	0.17	0.12	0.12	0.08	0.15	----	0.12	0.12	----	0.12	0.16	0.16	0.08	0.12	0.08	0.16	----
759	110898	2100	1	----	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	----
760	110998	400	30	----	1.25	1.29	1.26	----	1.24	0.93	1.52	1.76	1.31	0.80	0.71	1.89	----	0.87	0.92	----	2.13	1.26	0.72	0.54	0.78	0.84	1.88	----
761	112898	900	1	----	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	----
762	112898	2300	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
763	112998	700	5	----	0.04	0.00	0.00	----	0.04	0.04	0.04	0.00	0.04	0.00	0.04	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----
764	112998	2300	3	----	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	0.00	----
765	113098	500	16	----	0.34	0.32	0.42	----	0.42	0.47	0.34	0.50	0.49	0.60	0.99	0.81	----	0.76	0.84	----	0.63	0.42	0.51	0.38	0.34	0.34	0.50	----
766	120198	0800	6	----	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	----	0.06	0.00	0.00	0.00	0.00	0.20	0.00	----
767	120698	0400	20	----	1.20	0.53	1.20	----	0.00	0.47	0.70	0.40	0.30	0.33	0.26	0.30	----	0.50	0.37	----	0.43	0.54	0.38	0.35	0.34	0.25	0.46	----
768	121898	2200	15	----	0.27	0.15	0.18	----	0.00	0.18	0.11	0.15	0.23	0.16	0.21	0.18	----	0.18	0.00	----	0.16	0.22	0.22	0.23	0.25	0.19	0.22	----
769	122098	1600	11	----	0.06	0.06	0.04	----	0.00	0.05	0.00	0.00	0.04	0.00	0.00	0.05	----	0.07	0.00	----	0.07	0.00	0.04	0.00	0.00	0.04	0.00	----
770	122198	0600	12	----	0.04	0.05	0.00	----	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	----	0.00	0.00	----	0.09	0.00	0.00	0.01	0.00	0.00	0.00	----
771	123098	1300	21	----	0.10	0.05	0.12	----	0.00	0.10	0.07	0.12	0.07	0.00	0.16	0.22	----	0.12	0.00	----	0.11	0.00	0.17	0.12	0.24	0.16	0.05	----
772	010199	1200	30	----	0.25	1.87	0.72	----	1.09	0.00	0.39	0.00	0.47	0.00	0.82	0.84	----	0.53	0.00	----	0.26	0.24	0.53	0.55	0.46	0.60	0.91	----
773	010299	2300	6	----	0.00	0.00	0.00	----	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.04	----	0.00	0.00	----	0.03	0.00	0.03	0.00	0.04	0.02	0.00	----
774	010399	0900	10	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	----	0.00	0.00	----	0.10	0.00	0.00	0.00	0.07	0.00	0.00	----

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

Table VIII-3. (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
775	010699	1200	4	----	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	----	0.05	0.00	0.04	0.00	0.04	0.00	0.00	----
776	010899	1400	8	----	0.04	0.04	0.04	----	0.04	0.04	0.04	0.04	0.04	0.00	0.00	0.04	----	0.04	0.04	----	0.04	0.08	0.04	0.04	0.04	0.00	0.04	----
777	011199	0400	12	----	0.04	0.05	0.04	----	0.04	0.04	0.00	0.04	0.04	0.08	0.00	0.04	----	0.04	0.04	----	0.00	0.00	0.00	0.08	0.25	0.12	0.04	----
778	011299	2400	5	----	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	0.04	0.00	0.04	0.00	0.00	0.04	----
779	011499	0900	4	----	0.00	0.00	0.00	----	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----	0.04	0.04	----	0.00	0.04	0.00	0.00	0.00	0.04	0.00	----
780	011699	1000	3	----	0.00	0.00	0.00	----	0.04	0.00	0.04	0.00	0.00	0.04	0.04	0.00	----	0.04	0.00	----	0.04	0.00	0.04	0.04	0.00	0.04	0.04	----
781	011799	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	0.04	0.00	0.00	----
782	011799	0900	5	----	0.46	0.32	0.43	----	0.29	0.38	0.49	0.43	0.38	0.29	0.34	0.45	----	0.34	0.51	----	0.47	0.55	0.35	0.30	0.47	0.38	0.55	----
783	011799	1700	4	----	0.08	0.05	0.04	----	0.08	0.08	0.04	0.08	0.08	0.22	0.08	0.10	----	0.04	0.08	----	0.04	0.04	0.08	0.08	0.04	0.08	0.04	----
784	011899	0500	6	----	0.00	0.05	0.04	----	0.04	0.04	0.04	0.00	0.04	0.00	0.04	0.00	----	0.04	0.04	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----
785	011999	1200	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	0.04	0.04	----
786	012099	2000	3	----	0.08	0.05	0.04	----	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	----
787	012199	1400	32	----	1.21	1.18	1.11	----	1.26	0.77	0.82	0.95	1.03	1.46	0.80	0.68	----	0.96	1.37	----	0.69	0.89	0.98	0.60	0.89	0.99	0.71	----
788	012399	0300	15	----	0.37	0.27	0.58	----	0.28	0.24	0.34	0.61	0.40	0.20	0.21	0.42	----	0.42	0.24	----	0.34	0.54	0.45	0.37	0.42	0.12	0.29	----
789	013199	0700	10	----	0.29	0.28	0.34	----	0.20	0.34	0.25	0.30	0.28	0.29	0.25	0.27	----	0.30	0.55	----	0.30	0.55	0.33	0.25	0.34	0.30	0.36	----
790	013199	2300	2	----	0.04	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	0.00	0.00	0.00	0.00	0.00	----
791	020199	100	1	----	0.02	0.00	0.00	----	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.00	----	0.01	0.00	----	0.00	0.00	0.04	0.02	0.05	0.00	0.00	----
792	020199	700	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.02	0.00	0.00	0.00	----
793	020299	100	11	----	0.08	0.00	0.08	----	0.13	0.08	0.13	0.08	0.12	0.08	0.04	0.10	----	0.00	0.08	----	0.00	0.08	0.04	0.04	0.04	0.04	0.08	----
794	020799	100	17	----	0.25	0.29	0.37	----	0.38	0.51	0.30	0.55	0.53	0.63	0.60	0.61	----	0.68	0.90	----	0.64	0.90	0.77	0.68	0.78	0.82	0.73	----
795	020899	800	7	----	0.04	0.05	0.00	----	0.08	0.00	0.04	0.00	0.04	0.04	0.00	0.00	----	0.04	0.04	----	0.00	0.00	0.00	0.04	0.00	0.04	0.04	----
796	020999	1000	1	----	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	----
797	020999	1400	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	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
798	021199	1500	2	----	0.42	0.40	0.47	----	0.48	0.30	0.40	0.58	0.50	0.35	0.26	0.54	----	0.30	0.26	----	1.06	0.39	0.22	0.04	0.08	0.04	0.63	----
799	021699	900	8	----	0.00	0.00	0.00	----	0.00	0.04	0.00	0.04	0.00	0.04	0.04	0.05	----	0.04	0.00	----	0.04	0.08	0.08	0.04	0.04	0.08	0.04	----
800	022399	500	7	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.04	0.08	0.00	0.00	0.04	0.00	0.46	----
801	022499	100	6	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.04	----
802	022499	1900	7	----	0.04	0.00	0.04	----	0.00	0.04	0.00	0.08	0.04	0.08	0.08	0.09	----	0.08	0.04	----	0.04	0.04	0.09	0.04	0.08	0.12	0.00	----
803	022599	700	5	----	0.00	0.10	0.04	----	0.00	0.04	0.00	0.00	0.04	0.04	0.04	0.00	----	0.04	0.04	----	0.04	0.04	0.04	0.00	0.04	0.04	0.04	----
804	022699	1200	16	----	0.20	0.18	0.13	----	0.08	0.08	0.21	0.08	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	----
805	022799	800	2	----	0.00	0.05	0.00	----	0.04	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
806	022799	1400	4	----	0.00	0.00	0.00	----	0.00	0.04	0.04	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	----
807	022899	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	0.04	0.00	----
808	030199	0900	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	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	----
809	030299	0500	1	----	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	----
810	030299	1100	9	----	0.00	0.04	0.04	----	0.13	0.12	0.04	0.08	0.20	0.16	0.21	0.10	----	0.21	0.38	----	0.30	0.38	0.33	0.38	0.38	0.38	0.38	----
811	030599	1400	11	----	0.42	0.42	0.51	----	0.46	0.42	0.48	0.48	0.41	0.38	0.38	0.45	----	0.45	0.52	----	0.46	0.59	0.37	0.29	0.38	0.34	0.45	----
812	030899	1300	23	----	0.28	0.56	0.71	----	0.20	0.28	0.20	0.95	0.20	1.60	0.49	0.66	----	0.28	0.28	----	0.48	0.87	0.32	0.24	0.84	1.23	1.17	----
813	032899	0800	12	----	0.17	0.05	0.09	----	0.04	0.00	0.08	0.13	0.08	0.00	0.04	0.15	----	0.08	0.08	----	0.08	0.17	0.08	0.00	0.00	0.00	0.17	----

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

Table VIII-3. (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*
814	040199	600	5	----	0.04	0.00	0.04	----	0.04	0.04	0.00	0.00	0.04	0.04	0.04	0.00	----	0.04	0.04	----	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
815	040399	700	9	----	0.55	0.37	0.38	----	0.48	0.43	0.40	0.44	0.50	0.57	0.47	0.53	----	0.47	0.72	----	0.58	0.68	0.52	0.56	0.52	0.35	0.50	----
816	040399	2200	9	----	0.13	0.19	0.04	----	0.09	0.17	0.00	0.05	0.08	0.13	0.13	0.06	----	0.13	0.17	----	0.00	0.04	0.08	0.12	0.13	0.17	0.04	----
817	040599	1100	3	----	0.04	0.05	0.04	----	0.04	0.13	0.04	0.04	0.04	0.08	0.13	0.15	----	0.04	0.13	----	0.00	0.04	0.04	0.00	0.08	0.00	0.04	----
818	040599	2000	1	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
819	040899	2000	3	----	0.29	0.05	0.09	----	0.00	0.00	0.09	0.22	0.00	0.00	0.48	0.13	----	0.04	0.56	----	0.13	0.04	0.13	0.22	0.57	0.26	0.13	----
820	040999	600	5	----	0.04	0.00	0.04	----	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.05	----	0.04	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
821	041599	200	38	----	1.99	1.95	2.04	----	2.31	1.93	1.36	1.83	1.89	1.76	2.21	1.81	----	1.80	2.42	----	1.60	2.38	1.47	1.78	1.80	1.58	1.58	----
822	041699	2300	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	0.08	----	0.04	0.12	0.04	0.08	0.12	0.08	0.08	----
823	041799	1000	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	----	0.00	0.04	----	0.00	0.04	0.04	0.04	0.00	0.00	0.00	----
824	042099	1800	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----	0.00	0.04	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
825	042099	2400	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.43	0.47	----	0.63	0.85	0.70	0.61	0.47	0.61	0.09	----
826	042199	600	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----	0.04	0.04	----	0.00	0.04	0.00	0.04	0.04	0.04	0.00	----
827	042299	800	5	----	0.25	0.09	0.34	----	0.13	0.17	0.22	0.36	0.08	0.21	0.22	0.27	----	0.04	0.17	----	0.30	0.12	0.04	0.04	0.26	0.30	0.17	----
828	042299	2000	7	----	0.21	0.13	0.21	----	0.26	0.30	0.22	0.27	0.29	0.35	0.17	0.31	----	0.29	0.22	----	0.38	0.38	0.22	0.13	0.17	0.17	0.34	----
829	042699	200	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
830	042699	2400	22	----	0.89	0.86	0.50	----	0.51	0.91	0.08	0.25	0.41	0.68	1.20	0.28	----	0.61	0.68	----	0.25	0.37	0.17	0.48	0.29	0.90	1.25	----
831	042899	100	16	----	0.21	0.33	0.22	----	0.20	0.12	0.47	0.43	0.28	0.25	0.20	0.69	----	0.37	0.37	----	0.71	1.14	0.65	0.51	0.33	0.25	0.97	----
832	050499	2000	6	----	0.33	0.18	0.42	----	0.26	0.31	0.35	0.40	0.42	0.25	0.26	0.54	----	0.34	0.48	----	0.59	0.51	0.52	0.31	0.30	0.30	0.62	----
833	050599	500	6	----	0.00	0.00	0.00	----	0.00	0.04	0.04	0.00	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.08	0.04	0.08	0.04	0.08	0.00	0.04	----
834	050699	200	7	----	0.26	0.14	0.08	----	0.21	0.08	0.04	0.04	0.20	0.13	0.08	0.00	----	0.13	0.20	----	0.00	0.04	0.13	0.13	0.17	0.24	0.00	----
835	051199	1300	7	----	0.12	0.00	0.04	----	0.09	0.00	0.09	0.04	0.12	0.00	0.00	0.23	----	0.26	0.04	----	0.04	0.21	0.26	0.00	0.00	0.00	0.13	----
836	051299	500	6	----	0.04	0.00	0.17	----	0.04	0.00	0.08	0.22	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.04	0.04	0.00	0.00	0.04	0.08	----
837	051299	1400	31	----	2.39	2.04	2.68	----	1.90	1.28	1.87	3.04	1.91	1.33	1.20	1.55	----	2.70	1.58	----	2.35	1.67	1.94	1.72	1.21	1.20	2.17	----
838	051799	100	11	----	**2.19**	2.03	1.92	----	**2.74**	1.78	2.11	1.64	**2.66**	1.26	1.52	1.78	----	**2.22**	2.07	----	1.78	2.05	2.10	1.27	1.09	0.94	1.71	----
839	052199	1700	5	----	0.47	0.81	0.21	----	0.39	0.00	0.04	0.22	0.00	0.00	0.00	0.23	----	0.00	0.00	----	0.16	0.00	0.00	0.00	0.00	0.00	0.08	----
840	052299	200	3	----	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	----	0.04	0.04	0.00	0.00	0.00	0.00	0.00	----
841	052299	800	4	----	0.00	0.00	0.00	----	0.04	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	----
842	052399	700	9	----	0.16	0.28	0.17	----	0.18	0.12	0.13	0.04	0.08	0.12	0.25	0.04	----	0.04	0.08	----	0.04	0.09	0.00	0.00	0.00	0.00	0.00	----
843	052899	800	1	----	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	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
844	052899	1700	1	----	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	----
845	053199	600	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	0.00	0.00	0.00	0.00	0.04	----
846	053199	1400	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	0.34	0.00	0.00	0.00	0.00	0.12	----
847	060199	1600	19	----	1.35	1.50	1.15	----	2.31	1.70	1.63	1.71	2.08	2.39	1.95	0.62	----	2.31	1.99	----	1.23	2.15	1.70	1.96	1.53	1.33	1.34	----
848	060499	1600	4	----	0.42	0.18	0.37	----	0.39	0.82	0.35	0.48	0.37	0.21	0.43	0.63	----	0.21	0.17	----	0.29	0.30	0.39	0.21	0.26	0.34	0.25	----
849	060899	1500	6	----	0.00	0.00	0.08	----	0.13	0.00	0.44	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.72	0.49	0.00	0.08	0.00	0.43	0.00	----
850	061099	1700	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	0.13	0.12	0.00	0.00	0.00	0.00	----
851	061199	1400	5	----	0.00	0.00	0.08	----	0.00	0.00	1.14	0.04	0.00	0.00	0.00	0.14	----	0.00	0.08	----	0.37	0.42	0.57	0.09	0.00	0.00	0.29	----
852	061299	100	36	----	0.61	0.77	1.21	----	0.97	0.98	0.79	0.86	1.32	1.33	1.60	1.97	----	2.05	1.96	----	1.44	1.22	1.56	1.55	2.08	1.35	2.09	----
853	062199	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	0.00	0.00	0.07	----
854	062299	800	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	0.08	----	0.00	0.00	0.00	0.21	1.01	0.04	0.00	----

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

Table VIII-3. (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*
855	062499	100	2	----	0.00	0.00	0.34	----	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	----
856	062799	1900	14	----	1.14	0.36	1.36	----	1.05	0.49	0.00	0.22	1.58	0.47	1.09	0.00	----	0.17	1.85	----	0.00	0.00	0.09	0.26	0.21	1.12	0.00	----
857	062899	2000	2	----	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	0.09	0.09	0.00	0.00	0.08	0.04	----
858	063099	2300	2	----	0.04	0.00	0.04	----	0.04	0.10	0.09	0.09	0.08	0.09	0.00	0.13	----	0.04	0.04	----	0.17	0.17	0.13	0.04	0.04	0.04	0.30	----
859	070199	100	10	----	1.68	1.45	1.58	----	1.40	0.96	1.32	1.63	1.37	1.05	0.90	1.21	----	1.20	0.00	----	0.92	0.00	1.13	1.00	1.75	1.94	0.88	----
860	070699	1300	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	----	0.09	0.00	----	0.04	0.00	0.17	0.00	0.04	0.00	0.33	----
861	071799	200	10	----	0.34	0.23	0.25	----	0.13	0.29	0.09	0.39	0.33	0.25	0.13	0.19	----	0.30	0.12	----	0.28	0.36	0.16	0.12	0.17	0.17	0.17	----
862	071999	1900	25	----	1.89	**4.01**	1.53	----	2.39	**4.50**	0.92	1.44	0.74	1.87	0.47	1.03	----	0.68	1.01	----	0.83	1.06	0.70	0.43	0.70	0.55	0.38	----
863	072399	1900	9	----	1.51	1.76	1.45	----	0.35	1.09	0.75	0.49	0.00	0.47	0.73	0.28	----	0.04	0.21	----	0.00	0.13	0.04	0.00	0.13	0.17	0.55	----
864	072499	700	4	----	0.04	0.05	0.04	----	0.04	0.00	0.00	0.04	0.04	0.00	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.04	0.00	0.04	----
865	072699	2100	5	----	0.46	0.00	0.00	----	0.00	0.12	0.49	0.57	0.04	0.00	0.00	0.62	----	0.04	0.72	----	0.67	0.17	0.74	0.26	0.04	0.26	0.38	----
866	072799	500	5	----	0.00	0.05	0.04	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.04	0.00	0.04	0.00	0.04	0.04	----
867	072899	200	25	----	1.85	1.30	0.80	----	1.08	0.82	0.56	0.92	0.58	0.64	0.86	0.98	----	1.15	0.63	----	0.59	0.89	0.70	0.52	0.83	0.95	0.42	----
868	080499	1300	4	----	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	----	0.16	0.00	0.00	0.00	0.00	0.00	0.00	----
869	080799	900	6	----	0.33	0.32	0.26	----	0.39	0.30	0.22	0.35	0.21	0.26	0.25	0.32	----	0.25	0.37	----	0.21	0.25	0.43	0.30	0.30	0.38	0.38	----
870	080799	2000	4	----	0.00	0.00	0.13	----	0.17	0.20	0.04	0.04	0.21	0.09	0.26	0.67	----	0.04	0.08	----	0.80	0.00	0.26	0.04	0.04	0.00	0.16	----
871	081199	2100	15	----	1.16	0.81	1.23	----	1.30	1.78	1.09	1.10	0.87	1.47	1.16	0.28	----	0.41	0.41	----	0.35	0.00	0.12	0.25	0.21	0.38	0.33	----
872	081299	1900	6	----	0.09	0.05	0.13	----	0.17	0.00	0.27	0.53	0.42	0.65	0.91	0.72	----	1.07	0.81	----	1.35	0.00	1.74	1.70	1.80	0.86	3.18	----
873	081399	600	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	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
874	081899	900	7	----	0.00	0.00	0.04	----	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.04	----	0.00	0.38	----	0.00	0.00	0.00	0.00	0.00	0.00	0.67	----
875	081899	2300	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.08	0.09	0.00	0.00	----	0.00	0.08	----	0.00	0.00	0.00	0.00	0.08	0.09	0.08	----
876	082399	1700	11	----	2.03	1.35	1.06	----	1.30	1.95	0.89	1.06	0.46	1.52	1.87	0.71	----	1.16	0.81	----	0.88	1.19	1.09	0.87	1.01	0.69	1.21	----
877	091299	1300	7	----	0.16	0.04	0.08	----	0.21	0.12	0.22	0.21	0.16	0.08	0.08	0.23	----	0.25	0.29	----	0.13	0.17	0.12	0.17	0.25	0.33	0.12	----
878	091399	600	4	----	0.00	0.05	0.00	----	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.04	0.04	0.04	0.00	0.04	0.04	----
879	091999	800	8	----	0.00	0.00	0.00	----	0.00	0.04	0.00	0.04	0.04	0.13	0.04	0.14	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.25	0.63	0.00	----
880	091999	2200	2	----	0.00	0.00	0.13	----	0.04	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	----
881	092799	200	4	----	0.00	0.05	0.00	----	0.04	0.22	0.00	0.00	0.00	0.04	0.08	0.00	----	0.00	0.38	----	0.00	0.00	0.09	0.04	0.00	0.00	0.00	----
882	092799	1900	6	----	0.04	0.04	0.08	----	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
883	092899	400	4	----	0.04	0.05	0.08	----	0.04	0.08	0.04	0.04	0.00	0.04	0.22	0.00	----	0.04	0.04	----	0.00	0.00	0.04	0.04	0.00	0.00	0.04	----
884	092899	1100	20	----	0.50	0.45	0.42	----	0.51	0.43	0.51	0.52	0.62	0.42	0.54	0.50	----	0.50	0.75	----	0.50	0.60	0.50	0.72	0.64	0.53	0.46	----
885	100299	1000	3	----	0.09	0.00	0.04	----	0.08	0.00	0.04	0.04	0.04	0.00	0.00	0.05	----	0.00	0.09	----	0.04	0.09	0.09	0.00	0.00	0.00	0.09	----
886	100399	500	18	----	0.81	0.82	0.79	----	0.81	0.91	0.79	0.86	0.78	0.72	0.83	0.81	----	0.67	1.05	----	0.58	0.68	0.63	0.64	0.64	0.72	0.61	----
887	100899	500	10	----	0.04	0.05	0.04	----	0.04	0.04	0.00	0.04	0.04	0.04	0.04	0.10	----	0.04	0.17	----	0.04	0.04	0.08	0.08	0.16	0.21	0.12	----
888	100999	1000	6	----	0.00	0.00	0.04	----	0.04	0.00	0.00	0.00	0.04	0.08	0.04	0.00	----	0.00	0.08	----	0.00	0.00	0.04	0.08	0.12	0.30	0.04	----
889	101099	800	4	----	0.04	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	----	0.04	0.04	----	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----
890	101699	600	7	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.08	0.09	0.04	0.09	0.08	0.00	----
891	110199	1300	5	----	0.00	0.05	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	0.04	----
892	110499	800	6	----	0.00	0.00	0.04	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
893	110599	500	9	----	0.00	0.04	0.04	----	0.04	0.00	0.00	0.00	0.04	0.04	0.04	0.00	----	0.00	0.04	----	0.04	0.00	0.04	0.00	0.04	0.04	0.00	----
894	110899	1000	4	----	0.04	0.00	0.00	----	0.04	0.04	0.00	0.04	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.04	0.00	0.04	0.00	0.04	0.00	0.04	----
895	110999	700	4	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	----	0.04	0.04	----	0.04	0.04	0.00	0.00	0.00	0.04	0.00	----

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

Table VIII-3. (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
896	111099	900	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----	0.04	0.00	----	0.00	0.00	0.04	0.00	0.00	0.00	0.04	----
897	111199	700	8	----	0.00	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.04	0.00	0.00	0.00	0.04	0.00	----
898	111299	700	5	----	0.00	0.00	0.00	----	0.04	0.00	0.04	0.04	0.04	0.04	0.04	0.04	----	0.04	0.00	----	0.04	0.00	0.00	0.04	0.00	0.00	0.04	----
899	111399	800	4	----	0.00	0.05	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.04	0.00	0.00	0.04	0.00	----
900	111899	800	4	----	0.04	0.00	0.00	----	0.04	0.00	0.00	0.04	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.04	0.00	0.04	0.00	0.00	0.04	----
901	111999	600	7	----	0.04	0.05	0.04	----	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
902	112099	600	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	----	0.04	0.04	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
903	112199	1000	1	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.04	----
904	112199	1400	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.04	0.00	0.04	0.00	0.00	0.00	----
905	112199	2000	17	----	0.04	0.04	0.08	----	0.04	0.04	0.04	0.04	0.04	0.04	0.08	0.00	----	0.04	0.04	----	0.00	0.00	0.08	0.04	0.00	0.04	0.04	----
906	112299	1800	24	----	0.28	0.33	0.21	----	0.20	0.47	0.16	0.20	0.24	0.39	0.39	0.27	----	0.20	0.41	----	0.32	0.16	0.16	0.29	0.00	0.38	0.31	----
907	113099	800	4	----	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	0.00	0.00	0.00	0.00	0.00	----
908	120399	400	14	----	0.12	0.10	0.08	----	0.12	0.12	0.12	0.12	0.08	0.17	0.20	0.10	----	0.41	0.17	----	0.08	0.33	0.25	0.00	0.00	0.08	0.30	----
909	120499	500	39	----	1.48	1.22	1.86	----	1.36	1.26	1.70	1.70	1.42	1.26	1.26	1.62	----	1.39	1.42	----	1.68	1.91	1.52	1.44	1.12	1.31	1.83	----
910	120699	1000	5	----	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	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	----
911	120999	1600	7	----	0.08	0.10	0.04	----	0.12	0.16	0.04	0.13	0.16	0.16	0.12	0.15	----	0.08	0.12	----	0.13	0.16	0.08	0.08	0.10	0.08	0.08	----
912	121099	900	6	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.04	----
913	121299	100	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
914	121299	900	6	----	0.00	0.00	0.04	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.00	0.04	0.04	0.00	0.00	0.00	----
915	121399	1300	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
916	121599	400	12	----	0.25	0.10	0.26	----	0.25	0.21	0.35	0.13	0.20	0.13	0.12	0.32	----	0.21	0.29	----	0.29	0.33	0.12	0.17	0.17	0.12	0.20	----
917	121599	2300	3	----	0.00	0.00	0.00	----	0.04	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	----
918	121699	2300	3	----	0.00	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
919	121799	600	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.04	0.00	0.04	0.00	----	0.00	0.00	----	0.00	0.00	0.04	0.04	0.00	0.00	0.00	----
920	122299	700	1	----	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	0.00	0.00	0.00	0.00	0.00	----
921	122399	2100	10	----	0.08	0.00	0.04	----	0.09	0.04	0.04	0.08	0.00	0.04	0.04	0.09	----	0.00	0.04	----	0.08	0.08	0.00	0.04	0.04	0.08	0.08	----
922	010100	1100	1	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
923	010300	1300	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	0.04	0.00	----
924	010300	1700	10	----	0.04	0.00	0.08	----	0.04	0.12	0.04	0.04	0.12	0.12	0.04	0.04	----	0.04	0.12	----	0.07	0.12	0.04	0.04	0.08	0.00	0.08	----
925	010800	1700	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	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
926	010800	2200	21	----	0.12	0.14	0.08	----	0.08	0.12	0.04	0.12	0.08	0.16	0.20	0.10	----	0.04	0.29	----	0.04	0.08	0.08	0.08	0.08	0.08	0.08	----
927	010900	2400	12	----	0.12	0.23	0.12	----	0.16	0.08	0.13	0.13	0.12	0.12	0.04	0.14	----	0.08	0.04	----	0.12	0.04	0.08	0.00	0.04	0.00	0.08	----
928	011900	1300	13	----	0.20	0.14	0.20	----	0.08	0.20	0.20	0.25	0.12	0.24	0.21	0.28	----	0.20	0.17	----	0.16	0.16	0.16	0.08	0.16	0.29	0.13	----
929	012000	900	4	----	0.00	0.14	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
930	012900	1200	26	----	0.12	0.19	0.12	----	0.12	0.12	0.16	0.17	0.08	0.16	0.25	0.34	----	0.16	0.16	----	0.16	0.28	0.12	0.20	0.16	0.20	0.20	----
931	013100	500	6	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
932	013100	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	0.04	0.00	0.00	0.00	0.00	0.00	----
933	020300	100	13	----	0.00	0.04	0.04	----	0.04	0.04	0.04	0.00	0.00	0.00	0.04	0.00	----	0.04	0.00	----	0.00	0.00	0.04	0.04	0.08	0.00	0.00	----
934	020300	1900	1	----	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	0.04	0.00	0.00	0.00	0.00	----
935	020400	600	7	----	0.00	0.00	0.00	----	0.00	0.04	0.00	0.00	0.04	0.04	0.04	0.00	----	0.04	0.04	----	0.04	0.04	0.00	0.04	0.00	0.04	0.00	----
936	020500	1300	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----

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

Table VIII-3. (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
937	020600	900	6	----	0.00	0.00	0.04	----	0.04	0.00	0.00	0.04	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
938	020700	900	7	----	0.00	0.05	0.00	----	0.00	0.00	0.04	0.00	0.04	0.00	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.04	0.04	0.00	0.00	0.04	----
939	020800	1000	3	----	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	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	----
940	020800	2000	4	----	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	0.04	0.00	0.00	----
941	020900	800	8	----	0.00	0.00	0.04	----	0.04	0.00	0.00	0.04	0.04	0.04	0.04	0.04	----	0.04	0.04	----	0.00	0.04	0.04	0.00	0.00	0.00	0.04	----
942	021000	600	7	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.04	0.04	0.00	0.09	0.13	0.13	0.04	----
943	021000	1900	3	----	0.00	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
944	021100	900	1	----	0.04	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	----
945	021200	900	4	----	0.00	0.00	0.04	----	0.04	0.00	0.04	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	----
946	021300	1000	10	----	0.04	0.05	0.04	----	0.00	0.08	0.00	0.00	0.08	0.04	0.04	0.05	----	0.04	0.12	----	0.04	0.08	0.08	0.08	0.08	0.09	0.08	----
947	021300	2300	15	----	0.04	0.00	0.04	----	0.04	0.00	0.04	0.08	0.04	0.04	0.04	0.05	----	0.04	0.00	----	0.04	0.04	0.04	0.04	0.00	0.04	0.04	----
948	021500	800	7	----	0.00	0.05	0.00	----	0.04	0.04	0.04	0.04	0.00	0.04	0.00	0.00	----	0.04	0.04	----	0.04	0.00	0.00	0.04	0.04	0.04	0.00	----
949	021700	1700	29	----	0.90	0.90	0.96	----	0.86	0.95	0.92	1.05	1.04	0.99	1.13	1.08	----	1.19	1.78	----	1.05	1.57	1.21	1.04	1.17	1.20	1.27	----
950	021900	1000	4	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.04	0.04	0.00	0.00	0.00	----
951	022400	100	10	----	0.34	0.32	0.25	----	0.24	0.21	0.13	0.21	0.37	0.26	0.21	0.09	----	0.16	0.21	----	0.08	0.12	0.25	0.04	0.12	0.20	0.12	----
952	022500	2100	14	----	0.00	0.00	0.00	----	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.04	0.04	0.00	0.00	0.00	0.00	0.13	----
953	022900	2100	4	----	0.46	0.27	0.59	----	0.43	0.48	0.57	0.49	0.46	0.52	0.40	0.49	----	0.39	0.42	----	0.50	0.55	0.35	0.43	0.17	0.16	0.42	----
954	030100	100	3	----	0.00	0.05	0.00	----	0.00	0.04	0.04	0.00	0.04	0.00	0.00	0.00	----	0.04	0.04	----	0.00	0.00	0.04	0.00	0.04	0.04	0.04	----
955	031400	1800	17	----	0.00	0.00	0.00	----	0.04	0.04	0.00	0.12	0.08	0.12	0.12	0.15	----	0.08	0.04	----	0.08	0.12	0.08	0.08	0.08	0.04	0.08	----
956	031500	2300	13	----	0.37	0.24	0.51	----	0.41	0.42	0.48	0.47	0.44	0.36	0.38	0.64	----	0.42	0.69	----	0.54	0.68	0.47	0.29	0.28	0.21	0.55	----
957	031800	2400	40	----	0.92	1.02	0.96	----	1.00	0.95	0.75	1.01	1.10	1.09	1.14	0.96	----	1.09	1.60	----	0.99	1.39	1.15	1.13	1.00	1.18	0.83	----
958	032000	2000	1	----	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	0.00	0.00	0.00	0.00	0.04	----
959	032100	800	8	----	0.00	0.00	0.04	----	0.00	0.04	0.00	0.04	0.04	0.00	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.04	0.04	0.00	0.00	0.00	----
960	032400	900	2	----	0.04	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	----
961	032600	2100	3	----	0.22	0.09	0.09	----	0.13	0.21	0.00	0.04	0.00	0.00	0.09	0.04	----	0.04	0.00	----	0.08	0.13	0.12	0.09	0.21	0.09	0.08	----
962	032700	900	5	----	0.00	0.05	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	----
963	040200	400	9	----	0.04	0.00	0.04	----	0.00	0.04	0.00	0.04	0.04	0.04	0.04	0.04	----	0.08	0.00	----	0.00	0.04	0.04	0.00	0.00	0.00	0.04	----
964	040700	700	9	----	0.33	0.29	0.16	----	0.25	0.29	0.12	0.04	0.04	0.08	0.04	0.18	----	0.00	0.08	----	0.00	0.00	0.04	0.00	0.00	0.04	0.04	----
965	040700	1900	8	----	0.00	0.00	0.00	----	0.04	0.04	0.00	0.04	0.04	0.04	0.04	0.00	----	0.04	0.04	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	----
966	041000	2100	6	----	0.16	0.09	0.17	----	0.17	0.21	0.17	0.21	0.20	0.21	0.21	0.28	----	0.30	0.63	----	0.43	0.55	0.48	0.43	0.48	0.52	0.34	----
967	041100	600	8	----	0.00	0.00	0.04	----	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.04	0.04	0.00	0.04	0.04	0.00	0.04	----
968	041600	1700	7	----	0.24	0.00	0.47	----	0.04	0.08	0.79	0.39	0.08	0.13	0.26	0.23	----	0.04	0.21	----	0.08	0.00	0.09	0.09	0.13	0.17	0.04	----
969	041700	300	7	----	0.00	0.04	0.00	----	0.00	0.04	0.09	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	----
970	041800	700	7	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.04	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.04	----
971	041900	100	11	----	0.12	0.05	0.04	----	0.17	0.08	0.00	0.04	0.12	0.04	0.04	0.19	----	0.08	0.08	----	0.04	0.00	0.00	0.00	0.00	0.00	0.21	----
972	041900	1800	19	----	0.84	0.45	0.55	----	0.69	0.34	0.58	0.65	0.37	0.43	0.26	0.89	----	0.59	0.50	----	1.40	0.50	0.30	0.26	0.39	0.34	0.70	----
973	042000	1800	10	----	0.04	0.10	0.04	----	0.13	0.08	0.04	0.04	0.08	0.08	0.08	0.00	----	0.08	0.04	----	0.04	0.00	0.00	0.04	0.04	0.04	0.00	----
974	042100	900	3	----	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	0.00	0.04	0.00	0.00	0.00	----
975	042300	1800	21	----	0.21	0.09	0.25	----	0.21	0.17	0.12	0.25	0.16	0.21	0.21	0.14	----	0.16	0.38	----	0.16	0.38	0.25	0.25	0.40	0.55	0.21	----
976	042800	1500	10	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.23	----	0.00	0.08	----	0.00	0.17	0.00	0.00	0.00	0.00	0.00	----
977	050100	900	9	----	0.22	0.19	0.12	----	0.16	0.25	0.04	0.08	0.04	0.08	0.12	0.09	----	0.04	0.08	----	0.08	0.08	0.04	0.04	0.04	0.08	0.04	----

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

Table VIII-3. (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
978	050200	400	6	----	0.04	0.00	0.04	----	0.04	0.04	0.00	0.04	0.04	0.04	0.00	0.00	----	0.04	0.04	----	0.00	0.00	0.04	0.04	0.00	0.00	0.00	----
979	050600	2100	14	----	0.00	0.27	0.00	----	0.25	0.04	0.00	0.00	0.21	0.00	0.04	0.00	----	0.04	0.00	----	0.04	0.30	0.13	0.13	0.12	0.00	0.08	----
980	050800	2100	8	----	1.05	1.22	0.68	----	0.78	0.40	0.29	0.84	0.49	0.51	0.72	0.45	----	0.46	0.42	----	0.34	0.42	0.38	0.04	0.08	0.04	0.34	----
981	050900	800	10	----	0.13	0.23	0.12	----	0.39	0.12	0.12	0.13	0.37	0.08	0.04	0.09	----	0.08	0.12	----	0.12	0.25	0.04	0.12	0.08	0.08	0.12	----
982	051200	700	2	----	0.00	0.00	0.00	----	0.00	0.09	0.00	0.00	0.25	0.30	0.00	0.09	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
983	051200	1400	3	----	0.21	0.00	0.08	----	0.00	0.08	0.00	0.13	0.12	0.13	0.17	0.13	----	0.21	1.06	----	0.16	0.39	0.70	0.44	0.31	0.47	0.21	----
984	051700	900	11	----	0.37	0.28	0.29	----	0.35	0.26	0.13	0.09	0.16	0.17	0.18	0.04	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
985	051800	1600	5	----	0.12	0.05	0.00	----	0.04	0.04	0.00	0.13	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	----
986	052200	600	2	----	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	0.00	----
987	052200	2400	2	----	0.21	0.00	0.12	----	0.35	0.17	0.27	0.31	0.29	0.13	0.26	0.31	----	0.21	0.30	----	0.21	0.13	0.17	0.12	0.47	0.13	0.17	----
988	052300	600	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.05	----	0.04	0.00	----	0.00	0.04	0.00	0.04	0.04	0.04	0.00	----
989	052600	1000	16	----	1.84	1.17	1.45	----	1.92	1.65	1.41	1.85	**2.82**	1.61	2.13	1.87	----	1.80	**2.55**	----	1.56	2.12	2.00	1.63	1.44	1.42	1.90	----
990	052700	600	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.04	0.00	0.04	0.00	----
991	052700	1200	8	----	0.08	0.04	0.00	----	0.04	0.31	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	----
992	053100	500	11	----	1.89	1.09	1.84	----	1.29	0.73	1.82	1.95	1.83	1.65	0.75	**2.87**	----	0.94	0.48	----	0.80	0.67	0.35	0.04	0.00	0.04	0.46	----
993	060100	1000	5	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.04	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	----
994	060400	1000	10	----	0.46	0.32	0.85	----	0.65	0.43	0.48	0.49	0.45	0.52	0.52	0.58	----	0.52	0.54	----	0.16	0.33	0.39	0.38	0.43	0.38	0.12	----
995	060500	100	12	----	0.04	0.04	0.04	----	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.04	0.04	0.04	0.00	0.00	----
996	061100	400	32	----	0.33	0.42	0.33	----	0.82	0.43	0.56	0.61	0.88	0.52	0.46	0.98	----	0.60	0.71	----	0.45	0.50	0.43	0.51	1.07	1.12	0.66	----
997	061200	2100	3	----	0.09	0.09	0.08	----	0.17	0.00	0.04	0.00	0.00	0.00	0.26	0.00	----	0.21	0.46	----	0.12	0.00	0.17	0.00	0.44	0.00	0.00	----
998	061300	400	5	----	0.04	0.05	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.04	----
999	061400	100	4	----	0.00	0.00	0.12	----	0.00	0.00	0.04	0.08	0.00	0.00	0.00	0.18	----	0.00	0.00	----	0.13	0.00	0.04	0.00	0.00	0.00	0.21	----
1000	061400	900	7	----	0.04	0.41	0.16	----	0.31	0.52	0.04	0.08	0.34	0.57	0.35	0.14	----	0.64	0.76	----	0.04	0.33	0.61	0.35	0.35	0.26	0.08	----
1001	062000	400	34	----	1.22	1.22	0.88	----	1.56	1.80	1.27	1.16	1.37	1.60	2.50	1.19	----	**2.88**	2.76	----	1.93	2.23	2.60	2.55	1.81	2.22	2.42	----
1002	062300	1500	29	----	0.50	0.78	0.72	----	0.59	0.55	0.66	0.51	0.40	0.55	0.85	0.56	----	0.32	0.54	----	0.84	0.64	0.73	0.54	0.64	0.47	**3.71**	----
1003	062500	300	9	----	0.00	0.00	0.04	----	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.05	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1004	062500	2400	15	----	0.21	0.14	0.30	----	0.34	0.34	0.53	0.57	0.58	0.69	0.52	0.94	----	1.07	1.23	----	1.56	1.23	1.00	0.95	0.60	0.26	0.42	----
1005	070300	100	10	----	0.08	0.05	0.21	----	0.25	0.60	0.22	0.52	0.42	0.39	0.52	0.88	----	0.52	0.60	----	0.42	0.42	0.43	0.31	0.13	0.18	0.62	----
1006	070400	1200	31	----	1.22	1.31	1.26	----	1.87	1.21	0.70	0.62	0.62	0.78	1.03	1.70	----	1.29	1.43	----	**2.99**	**3.36**	2.04	1.65	1.12	1.59	**4.23**	----
1007	071000	800	3	----	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	0.00	0.00	0.00	0.00	0.00	0.00	----
1008	071000	2300	13	----	0.42	0.05	0.38	----	0.26	0.25	1.14	0.79	1.40	1.25	0.47	0.72	----	1.37	1.86	----	0.41	0.64	1.48	1.09	2.01	1.42	1.12	----
1009	071800	2000	6	----	0.13	0.09	0.42	----	0.26	0.25	0.80	0.62	0.66	0.53	0.26	0.44	----	0.86	0.98	----	0.25	0.68	0.88	0.70	0.60	0.73	0.29	----
1010	071900	500	5	----	0.04	0.00	0.04	----	0.04	0.00	0.04	0.00	0.25	0.00	0.04	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	----
1011	072800	2000	16	----	0.25	0.54	0.00	----	0.26	0.22	0.08	0.21	0.33	0.08	1.13	0.05	----	0.38	0.21	----	0.21	0.46	0.61	0.69	0.86	0.56	0.00	----
1012	072900	1800	2	----	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	0.48	0.00	0.00	0.00	0.00	----
1013	073000	700	13	----	0.00	0.36	0.47	----	0.17	0.52	0.17	0.17	0.41	0.00	0.42	0.18	----	0.08	0.00	----	0.21	0.00	0.04	0.56	0.00	0.00	0.00	----
1014	073100	700	7	----	0.00	0.00	0.04	----	0.00	0.00	0.04	0.00	0.04	0.00	0.00	0.00	----	0.04	0.04	----	0.00	0.04	0.00	0.00	0.00	0.00	0.04	----
1015	073100	1700	8	----	0.33	0.18	0.38	----	0.17	0.21	0.26	0.62	1.33	0.21	0.17	0.09	----	0.68	0.80	----	0.04	0.08	0.04	0.26	1.84	0.47	0.04	----
1016	080100	200	8	----	0.00	0.05	0.00	----	0.00	0.00	0.04	0.00	0.04	0.00	0.04	0.05	----	0.04	0.00	----	0.04	0.04	0.04	0.04	0.00	0.04	0.04	----
1017	080200	1900	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	0.04	0.00	0.00	0.13	0.00	0.00	----
1018	080500	600	14	----	1.39	1.03	1.63	----	1.92	1.14	0.76	0.88	1.04	1.21	0.95	0.59	----	0.82	1.07	----	0.33	0.25	0.30	0.52	0.91	0.99	0.88	----

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

Table VIII-3. (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
1019	080600	100	8	----	0.00	0.00	0.04	----	0.00	0.04	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	0.04	0.17	----
1020	080800	700	7	----	0.17	0.14	0.17	----	0.13	0.12	0.13	0.22	0.16	0.13	0.17	0.28	----	0.21	0.26	----	0.29	0.34	0.30	0.25	0.22	0.21	0.38	----
1021	081700	1800	6	----	0.42	0.14	0.72	----	0.39	0.35	0.57	0.00	0.16	0.04	0.00	0.41	----	0.12	0.08	----	1.05	0.63	0.69	0.42	0.16	0.12	0.95	----
1022	081800	400	5	----	0.00	0.00	0.00	----	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.00	0.04	0.00	0.00	0.00	0.00	----
1023	082200	400	6	----	0.13	0.00	0.04	----	0.04	0.09	0.00	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	----
1024	082300	700	6	----	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	----	0.04	0.08	0.00	0.00	0.00	0.00	0.12	----
1025	082300	1800	4	----	0.00	0.00	0.00	----	0.26	0.00	0.00	0.00	0.42	0.70	0.69	0.18	----	0.04	0.29	----	0.08	0.30	0.13	0.00	0.00	0.12	0.13	----
1026	082400	600	5	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.04	0.04	0.00	----	0.04	0.00	----	0.04	0.04	0.04	0.04	0.00	0.04	0.04	----
1027	082600	800	7	----	0.00	0.00	0.13	----	0.00	0.17	0.00	0.31	0.00	0.04	0.69	0.26	----	0.30	0.13	----	0.00	0.04	0.09	0.12	0.00	0.43	0.00	----
1028	082600	2000	1	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	----	0.00	0.00	----	0.12	0.51	0.08	0.00	0.00	0.00	0.00	----
1029	082600	2400	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	----	0.04	0.00	0.04	0.04	0.00	0.00	0.00	----
1030	082700	900	1	----	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	0.04	0.00	0.00	0.00	0.00	0.00	----
1031	082800	800	4	----	0.09	0.00	0.04	----	0.00	0.04	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	----
1032	083100	2100	4	----	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	0.04	----
1033	90300	1300	1	----	0.08	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1034	90500	1000	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1035	91100	2200	13	----	0.33	0.22	0.43	----	0.52	0.48	0.35	0.35	0.42	0.44	0.52	0.45	----	0.29	0.42	----	0.41	0.35	0.30	0.17	0.30	0.39	0.80	----
1036	91400	500	7	----	0.21	0.14	0.25	----	0.21	0.17	0.40	0.22	0.20	0.04	0.12	0.35	----	0.12	0.20	----	0.29	0.34	0.17	0.12	0.13	0.13	0.46	----
1037	92000	1200	6	----	0.38	0.22	0.29	----	0.31	0.35	0.35	0.35	0.33	0.25	0.35	0.40	----	0.30	0.39	----	0.43	0.35	0.35	0.35	0.34	0.31	0.34	----
1038	92100	700	4	----	0.00	0.05	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.00	0.04	0.00	0.04	0.00	0.04	0.00	----
1039	92300	200	4	----	0.12	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	----
1040	92300	2300	10	----	0.58	0.55	0.34	----	0.42	0.44	0.26	0.27	0.29	0.18	0.30	0.36	----	0.52	0.60	----	0.46	0.68	0.70	0.43	0.39	0.34	0.51	----
1041	92500	100	15	----	0.41	0.37	0.46	----	0.42	0.42	0.44	0.46	0.40	0.47	0.59	0.56	----	0.54	0.71	----	0.63	0.77	0.60	0.54	0.62	0.51	0.70	----
1042	92600	700	7	----	0.00	0.05	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----
1043	100400	100	8	----	0.64	0.68	0.94	----	0.73	0.78	0.71	0.67	0.63	0.61	0.74	0.55	----	0.34	0.51	----	0.12	0.30	0.34	0.44	0.30	0.35	0.42	----
1044	100400	2000	19	----	0.63	0.56	0.62	----	0.60	0.59	0.78	0.64	0.69	0.63	0.63	0.73	----	0.50	0.76	----	0.67	0.71	0.68	0.64	0.72	0.90	1.04	----
1045	101400	2000	9	----	0.30	0.23	0.21	----	0.26	0.26	0.27	0.27	0.33	0.34	0.43	0.40	----	0.39	0.56	----	0.38	0.42	0.53	0.52	0.52	0.47	0.42	----
1046	101500	800	6	----	0.04	0.05	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----
1047	101600	1400	27	----	0.04	0.09	0.08	----	0.08	0.08	0.08	0.08	0.08	0.00	0.12	0.10	----	0.08	0.16	----	0.08	0.17	0.08	0.08	0.17	0.13	0.17	----
1048	102200	1000	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	----
1049	102300	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	0.00	0.00	0.00	0.00	0.04	----
1050	102300	2000	6	----	0.00	0.00	0.08	----	0.12	0.08	0.09	0.22	0.16	0.04	0.17	0.04	----	0.00	0.00	----	0.08	0.00	0.00	0.00	0.00	0.04	0.08	----
1051	102400	500	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.04	0.00	----
1052	102500	1000	7	----	0.00	0.04	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	0.00	0.00	0.00	0.00	0.04	----
1053	110100	800	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
1054	110200	600	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
1055	110300	800	4	----	0.00	0.00	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.04	0.00	----
1056	110400	1100	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----
1057	110600	600	20	----	1.03	0.56	1.27	----	0.88	0.96	0.70	0.92	0.74	0.82	0.94	0.95	----	0.71	1.57	----	0.83	1.19	0.84	0.81	0.94	1.03	1.00	----
1058	110800	1800	25	----	0.90	0.69	0.67	----	0.55	0.54	0.56	0.61	0.54	0.69	0.86	0.69	----	0.71	0.68	----	0.87	0.67	0.59	0.86	0.96	0.69	0.54	----
1059	111200	2300	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	0.09	----	0.00	0.00	0.00	0.00	0.08	0.12	0.00	----

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

Table VIII-3. (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
1060	112500	700	22	----	0.42	0.29	0.36	----	0.32	0.37	0.29	0.28	0.28	0.41	0.40	0.37	----	0.32	0.49	----	0.20	0.36	0.28	0.32	0.36	0.41	0.20	----
1061	112600	800	7	----	0.00	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.04	0.00	0.00	0.00	0.00	0.04	----
1062	112800	800	7	----	0.00	0.05	0.04	----	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.04	0.04	0.00	0.04	0.00	----
1063	112800	2400	16	----	0.12	0.05	0.08	----	0.08	0.12	0.04	0.13	0.04	0.08	0.08	0.10	----	0.04	0.12	----	0.04	0.04	0.08	0.00	0.00	0.04	0.04	----
1064	120100	100	15	----	0.08	0.14	0.08	----	0.08	0.08	0.04	0.04	0.12	0.08	0.08	0.05	----	0.04	0.04	----	0.04	0.12	0.04	0.00	0.04	0.04	0.08	----
1065	121100	400	19	----	0.44	0.51	0.34	----	0.47	0.37	0.51	0.50	0.28	0.28	0.33	0.40	----	0.34	0.38	----	0.42	0.43	0.25	0.25	0.38	0.41	0.21	----
1066	121200	700	5	----	0.00	0.05	0.00	----	0.00	0.00	0.04	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	0.04	----
1067	121300	900	18	----	0.22	0.48	0.32	----	0.20	0.28	0.32	0.32	0.20	0.20	0.32	0.43	----	0.24	0.28	----	0.16	0.40	0.20	0.20	0.20	0.28	0.24	----
1068	121400	800	7	----	0.00	0.05	0.04	----	0.08	0.04	0.04	0.00	0.04	0.04	0.08	0.00	----	0.04	0.04	----	0.04	0.08	0.04	0.09	0.08	0.12	0.08	----
1069	121500	1000	13	----	0.00	0.04	0.00	----	0.00	0.08	0.00	0.04	0.04	0.04	0.04	0.05	----	0.04	0.08	----	0.00	0.04	0.04	0.08	0.08	0.04	0.04	----
1070	121600	200	14	----	0.10	0.05	0.12	----	0.08	0.08	0.08	0.08	0.08	0.12	0.12	0.10	----	0.08	0.08	----	0.12	0.04	0.08	0.08	0.08	0.08	0.08	----
1071	121600	2300	4	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.04	0.00	0.08	0.00	0.00	----
1072	121800	1400	5	----	0.03	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	0.04	0.00	0.00	0.04	0.04	0.00	----
1073	121900	900	3	----	0.00	0.05	0.00	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.04	0.00	0.04	----
1074	122000	500	4	----	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	0.04	0.00	0.00	0.00	0.00	0.00	----
1075	122000	2400	6	----	0.01	0.05	0.00	----	0.04	0.04	0.00	0.04	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----
1076	122100	1000	3	----	0.00	0.00	0.00	----	0.00	0.00	0.04	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.04	----
1077	122200	900	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1078	122500	1000	1	----	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	----
1079	122600	1200	3	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.09	0.00	0.00	----
1080	122700	800	5	----	0.00	0.05	0.00	----	0.00	0.00	0.04	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	----
1081	122800	1700	4	----	0.08	0.00	0.04	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.09	----	0.00	0.04	----	0.04	0.08	0.04	0.00	0.00	0.04	0.00	----
1082	122800	2400	38	----	0.04	0.14	0.16	----	0.16	0.20	0.12	0.20	0.12	0.20	0.16	0.20	----	0.16	0.20	----	0.24	0.12	0.16	0.20	0.16	0.20	0.16	----
1083	123100	1000	1	----	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	0.00	0.00	0.00	0.00	0.00	0.00	----
1084	123100	2100	4	----	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	----
1085	010101	900	3	----	0.00	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
1086	010201	1300	2	----	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	0.04	0.00	0.00	----
1087	010301	1300	1	----	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	0.00	0.00	0.00	0.00	0.00	0.00	----
1088	010801	600	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.04	----	0.04	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
1089	010901	1000	1	----	0.00	0.00	0.00	----	0.04	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	----
1090	011001	1000	7	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----	0.00	0.00	----	0.00	0.04	0.00	0.08	0.04	0.00	0.00	----
1091	011001	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	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1092	011101	900	28	----	0.20	0.15	0.16	----	0.16	0.16	0.12	0.16	0.16	0.16	0.12	0.20	----	0.12	0.16	----	0.20	0.16	0.12	0.08	0.16	0.20	0.28	----
1093	011301	2000	9	----	0.30	0.27	0.30	----	0.29	0.26	0.30	0.26	0.24	0.20	0.21	0.31	----	0.22	0.34	----	0.30	0.21	0.18	0.16	0.20	0.24	0.30	----
1094	011401	800	15	----	0.04	0.05	0.04	----	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.10	----	0.08	0.00	----	0.04	0.04	0.00	0.00	0.00	0.00	0.00	----
1095	011501	700	1	----	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	----
1096	011501	1200	2	----	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	0.04	----
1097	011701	800	1	----	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	----
1098	011801	1100	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	0.04	0.00	0.04	0.00	----
1099	012601	500	17	----	0.29	0.38	0.16	----	0.16	0.25	0.12	0.26	0.20	0.34	0.21	0.19	----	0.16	0.16	----	0.12	0.29	0.14	0.08	0.12	0.21	0.25	----
1100	012801	900	37	----	2.74	2.21	2.64	----	2.47	2.29	2.38	2.62	2.67	2.53	2.07	2.77	----	2.32	**3.12**	----	2.62	2.57	2.25	1.98	2.00	2.05	2.49	----

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

Table VIII-3. (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
1101	013001	300	15	----	0.21	0.24	0.20	----	0.25	0.29	0.25	0.21	0.20	0.25	0.33	0.24	----	0.20	0.41	----	0.16	0.30	0.19	0.24	0.25	0.29	0.21	----
1102	013101	900	5	----	0.00	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.09	0.00	0.00	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
1103	020101	900	2	----	0.00	0.05	0.00	----	0.04	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	----
1104	020401	1200	4	----	0.04	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	----
1105	020601	300	8	----	0.04	0.05	0.08	----	0.08	0.04	0.08	0.04	0.04	0.04	0.08	0.05	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1106	020801	1800	24	----	0.54	0.55	0.54	----	0.59	0.55	0.48	0.74	0.53	0.50	0.55	0.55	----	0.46	0.80	----	0.54	0.72	0.51	0.63	0.60	0.55	0.62	----
1107	021301	1900	24	----	0.16	0.15	0.08	----	0.17	0.21	0.13	0.08	0.12	0.17	0.21	0.19	----	0.21	0.38	----	0.12	0.29	0.16	0.21	0.16	0.20	0.20	----
1108	021501	1200	1	----	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	----
1109	021701	1000	2	----	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	----
1110	022301	2400	32	----	2.15	1.68	2.25	----	1.81	1.93	1.81	2.00	1.90	2.15	1.59	2.27	----	2.10	**3.00**	----	2.18	2.41	2.10	1.58	1.57	1.88	2.52	----
1111	030301	800	4	----	0.00	0.00	0.04	----	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	0.04	0.00	0.00	----
1112	030401	800	9	----	0.04	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.04	0.00	----
1113	031201	200	15	----	0.34	0.28	0.21	----	0.20	0.25	0.16	0.25	0.24	0.20	0.20	0.24	----	0.20	0.33	----	0.12	0.30	0.21	0.08	0.21	0.21	0.12	----
1114	031301	600	6	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.00	----	0.04	0.00	----	0.04	0.00	0.00	0.04	0.00	0.04	0.00	----
1115	031501	300	47	----	0.82	1.03	1.19	----	1.02	1.07	1.01	1.23	1.13	1.07	1.04	1.44	----	1.14	2.07	----	1.45	1.95	1.26	1.21	1.07	1.11	1.54	----
1116	031701	800	4	----	0.08	0.05	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	----	0.04	0.00	----	0.04	0.00	0.00	0.04	0.04	0.00	0.00	----
1117	033101	1300	12	----	0.06	0.00	0.04	----	0.12	0.04	0.04	0.08	0.08	0.04	0.00	0.04	----	0.04	0.04	----	0.04	0.04	0.04	0.00	0.04	0.04	0.08	----
1118	040501	1200	23	----	1.80	1.22	2.01	----	0.00	1.56	0.83	0.39	0.46	0.82	0.99	0.31	----	0.46	0.85	----	0.12	0.29	0.43	0.39	0.52	0.56	0.80	----
1119	040901	500	5	----	0.20	0.00	0.12	----	0.16	0.09	0.00	0.18	0.04	0.08	0.12	0.14	----	0.08	0.25	----	0.26	0.26	0.22	0.22	0.13	0.17	0.21	----
1120	040901	2200	16	----	0.08	0.31	0.34	----	0.60	0.70	0.00	0.70	0.70	0.71	0.77	0.67	----	0.86	1.38	----	0.71	0.85	0.77	0.69	0.58	0.64	0.92	----
1121	041001	1900	9	----	0.46	1.05	0.64	----	0.55	0.75	0.00	0.53	0.62	0.65	0.57	0.36	----	0.47	0.72	----	0.35	0.35	0.34	0.34	0.35	0.76	0.33	----
1122	041101	700	12	----	0.50	0.23	0.54	----	0.30	0.34	0.00	0.43	0.33	0.26	0.43	0.33	----	0.34	0.59	----	0.33	0.29	0.38	0.22	0.48	0.35	0.50	----
1123	041401	2300	6	----	0.21	0.13	0.04	----	0.13	0.09	0.00	0.00	0.00	0.08	0.04	0.05	----	0.18	0.30	----	0.00	0.17	0.13	0.22	0.13	0.00	0.09	----
1124	041501	800	3	----	0.04	0.00	0.00	----	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1125	041501	1600	7	----	0.00	0.05	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
1126	041901	2200	5	----	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	0.04	0.09	----
1127	042101	100	9	----	0.34	0.27	0.29	----	0.38	0.34	0.00	0.48	0.33	0.35	0.30	0.36	----	0.34	0.37	----	0.42	0.21	0.21	0.13	0.04	0.04	0.29	----
1128	042101	1500	21	----	0.17	0.37	0.84	----	0.56	0.47	0.00	0.26	0.20	0.39	0.30	0.32	----	0.12	0.26	----	0.04	0.08	0.21	0.21	0.08	0.04	0.04	----
1129	042301	1000	2	----	0.17	0.09	0.17	----	0.13	0.00	0.00	0.27	0.21	0.00	0.00	0.09	----	0.08	0.00	----	0.16	0.21	0.00	0.00	0.00	0.00	0.25	----
1130	042501	400	13	----	0.29	0.22	0.30	----	0.30	0.25	0.00	0.34	0.29	0.25	0.26	0.32	----	0.17	0.30	----	0.17	0.26	0.26	0.26	0.17	0.22	0.16	----
1131	042701	900	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	0.13	0.00	0.00	0.00	0.00	0.00	----
1132	050401	1800	4	----	0.42	0.00	0.00	----	0.17	0.82	0.00	0.00	0.62	0.21	0.74	0.13	----	0.60	1.18	----	0.12	0.00	0.00	0.70	0.31	0.12	0.00	----
1133	050501	400	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.05	----	0.04	0.04	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
1134	050601	1400	6	----	0.12	0.46	0.08	----	0.22	0.16	0.00	0.17	0.25	0.21	0.08	0.14	----	0.34	0.43	----	0.30	0.17	0.12	0.30	0.35	0.13	0.37	----
1135	050601	2400	4	----	0.04	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	0.04	0.00	0.00	0.04	----
1136	050701	700	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.05	----	0.00	0.00	----	0.04	0.00	0.00	0.00	0.00	0.00	0.00	----
1137	051001	2400	10	----	1.14	0.90	1.02	----	0.78	0.96	0.70	0.67	1.00	0.87	0.74	0.46	----	0.42	0.85	----	0.00	0.21	0.53	0.56	0.61	0.35	0.00	----
1138	051401	200	12	----	0.29	0.33	0.60	----	0.25	0.26	0.48	0.43	0.33	0.34	0.17	0.59	----	0.21	0.94	----	0.46	0.56	0.43	0.34	0.30	0.55	0.50	----
1139	051701	400	8	----	0.76	0.40	0.48	----	0.44	0.43	0.17	0.17	0.37	0.47	0.21	0.27	----	0.25	0.21	----	0.29	0.46	0.46	0.26	0.00	0.04	0.04	----
1140	051701	2000	15	----	0.96	**2.79**	0.72	----	1.57	**2.96**	0.89	0.74	1.29	**2.91**	1.38	1.81	----	1.03	**2.59**	----	1.44	1.94	1.63	0.96	0.87	1.03	0.50	----
1141	052101	200	11	----	0.17	0.15	0.33	----	0.12	0.12	0.48	0.21	0.12	0.13	0.16	0.27	----	0.13	0.34	----	0.50	0.34	0.15	0.12	0.21	0.16	0.97	----

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

Table VIII-3. (Concluded)

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
1142	052201	1300	5	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.05	----	0.00	0.00	----	0.13	0.00	0.00	0.00	0.00	0.00	0.08	----
1143	052601	400	16	----	0.21	0.17	0.21	----	0.39	0.30	0.21	0.25	0.24	0.44	0.25	0.28	----	0.34	0.33	----	0.29	0.38	0.23	0.17	0.25	0.21	0.43	----
1144	052701	800	3	----	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	0.04	0.00	0.00	0.00	----
1145	053001	2000	29	----	1.25	1.01	1.30	----	1.03	0.93	1.22	1.39	1.15	0.80	0.89	1.41	----	0.83	1.35	----	1.09	1.28	0.87	0.77	1.05	0.92	1.13	----
1146	060101	100	30	----	0.33	0.10	0.63	----	0.65	0.43	0.39	0.70	0.57	0.51	0.51	0.53	----	0.43	0.42	----	0.42	0.46	0.42	0.48	0.38	0.43	0.33	----
1147	060201	1300	2	----	0.00	0.00	0.04	----	0.00	0.04	0.00	0.04	0.04	0.04	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1148	060401	400	10	----	0.67	0.46	0.55	----	0.48	0.43	0.57	0.88	0.79	0.73	0.47	0.72	----	0.60	0.88	----	0.55	0.67	0.65	0.47	0.46	0.56	0.54	----
1149	060501	1100	5	----	0.16	0.17	0.00	----	0.00	0.00	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	----
1150	060501	2100	12	----	1.73	0.79	1.70	----	0.48	0.57	0.74	0.89	0.54	0.65	0.57	0.00	----	0.59	0.56	----	1.17	0.88	0.62	0.61	0.60	0.52	1.05	----
1151	061401	1800	20	----	0.16	0.09	0.77	----	0.09	0.04	1.29	1.10	0.53	0.04	0.04	0.00	----	0.72	0.08	----	1.06	1.02	0.60	0.60	0.00	0.08	1.13	----
1152	061701	300	1	----	0.00	0.00	0.21	----	0.18	0.00	0.00	0.00	0.04	0.18	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1153	062001	1000	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1154	062101	100	14	----	0.63	0.77	0.54	----	0.63	0.82	0.69	0.57	0.74	0.86	0.78	0.00	----	0.89	1.23	----	0.67	0.97	1.01	0.52	0.30	0.25	0.79	----
1155	062701	1300	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	0.13	0.00	0.00	----
1156	062901	1700	6	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.38	0.00	0.00	0.00	0.00	0.00	----
1157	070201	1000	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	0.04	----	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
1158	070301	900	6	----	0.25	0.33	0.08	----	0.12	0.25	0.04	0.13	0.00	0.09	0.13	0.00	----	0.00	0.21	----	0.04	0.00	0.00	0.00	0.00	0.04	0.04	----
1159	071101	1000	8	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1160	071701	1500	4	----	0.00	0.00	0.00	----	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.44	----	0.00	0.00	----	1.10	0.51	0.26	0.04	0.00	0.00	0.38	----
1161	071801	600	8	----	0.25	0.10	0.30	----	0.35	0.13	0.40	0.44	0.25	0.48	0.26	0.24	----	0.29	0.21	----	0.33	0.83	0.34	0.17	0.12	0.34	0.71	----
1162	071901	900	7	----	0.20	0.09	0.22	----	0.17	0.09	0.26	0.17	0.20	0.13	0.08	0.28	----	0.13	0.12	----	1.14	0.63	0.12	0.21	0.17	0.17	0.34	----
1163	072001	700	3	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	----	0.04	0.00	----	0.04	0.00	0.00	0.04	0.00	0.04	0.00	----
1164	072301	1500	6	----	0.00	0.63	0.00	----	0.13	0.78	0.09	0.44	0.42	0.09	0.00	0.00	----	0.30	0.43	----	0.00	0.09	0.00	0.00	0.00	1.20	0.00	----
1165	072401	600	3	----	0.00	0.00	0.00	----	0.00	0.00	0.04	0.04	0.00	0.04	0.04	0.00	----	0.00	0.04	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1166	072501	1800	8	----	0.00	0.00	0.00	----	0.21	0.95	0.00	0.18	0.58	1.22	0.17	0.00	----	0.00	0.60	----	0.00	0.00	0.00	0.00	0.00	0.65	0.00	----
1167	080201	1700	18	----	0.50	0.13	0.94	----	0.87	0.17	1.23	0.83	1.08	0.78	1.04	0.67	----	0.67	0.71	----	0.75	0.68	0.65	0.95	0.61	0.39	0.50	----
1168	080801	800	2	----	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1169	080901	2000	14	----	0.00	0.00	0.55	----	0.17	0.00	0.40	0.00	0.00	0.00	0.00	0.00	----	0.00	0.17	----	0.37	0.00	0.17	0.22	0.00	0.00	0.25	----
1170	081501	2300	13	----	0.25	0.31	0.17	----	0.35	0.47	0.13	0.17	0.29	0.31	0.21	0.18	----	0.17	0.38	----	0.25	0.25	0.35	0.13	0.21	0.21	0.21	----
1171	081801	1200	4	----	0.08	0.00	0.51	----	1.52	0.47	0.13	0.00	0.04	0.30	1.21	0.00	----	0.04	0.38	----	0.00	0.00	0.44	0.48	0.92	0.82	0.00	----
1172	082201	1800	15	----	1.98	1.48	0.72	----	0.94	1.29	1.03	1.44	1.03	1.34	1.02	2.05	----	2.01	1.75	----	**2.62**	2.08	2.26	1.86	2.35	1.99	3.21	----
1173	082301	1700	1	----	0.00	0.00	0.13	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1174	082301	2100	4	----	0.33	0.19	0.00	----	0.09	0.96	0.00	0.00	0.00	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
1175	082401	500	8	----	0.08	0.09	0.04	----	0.04	0.04	0.00	0.00	0.08	0.04	0.00	0.13	----	0.04	0.04	----	0.00	0.00	0.00	0.04	0.04	0.04	0.00	----
1176	082401	1600	4	----	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	0.00	0.00	0.04	0.00	0.00	----
1177	082501	200	3	----	0.00	0.09	0.00	----	0.04	0.00	0.00	0.04	0.08	0.00	0.00	0.00	----	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	0.00	0.04	----
1178	082501	2000	6	----	0.29	0.14	0.47	----	0.65	0.31	0.48	0.66	0.71	0.79	0.91	0.40	----	0.39	1.02	----	0.00	0.13	0.18	0.09	0.00	0.22	0.04	----
1179	082601	600	7	----	0.00	0.00	0.04	----	0.04	0.00	0.04	0.04	0.00	0.04	0.00	0.00	----	0.04	0.00	----	0.00	0.00	0.00	0.04	0.04	0.04	0.00	----
1180	083001	2000	18	----	0.25	0.36	0.00	----	0.04	0.04	0.00	0.00	0.00	0.04	0.08	0.09	----	0.00	0.13	----	0.00	0.04	0.21	0.12	0.00	1.03	0.04	----

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