

RAINFALL IN AND NEAR DU PAGE COUNTY, ILLINOIS, FEBRUARY 1986-SEPTEMBER 1991

by James J. Duncker, Tracy J. Vail, and John D. Earle

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CONVERSION FACTORS AND VERTICAL DATUM

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer

Temperature may be converted from degrees Fahrenheit (°F) to degrees Celsius (°C) as follows:

$$^{\circ}\text{C} = \frac{5}{9} \times (^{\circ}\text{F} - 32)$$

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

RAINFALL IN AND NEAR DU PAGE COUNTY, ILLINOIS, FEBRUARY 1986-SEPTEMBER 1991

by James J. Duncker, Tracy J. Vail, and John D. Earle

ABSTRACT

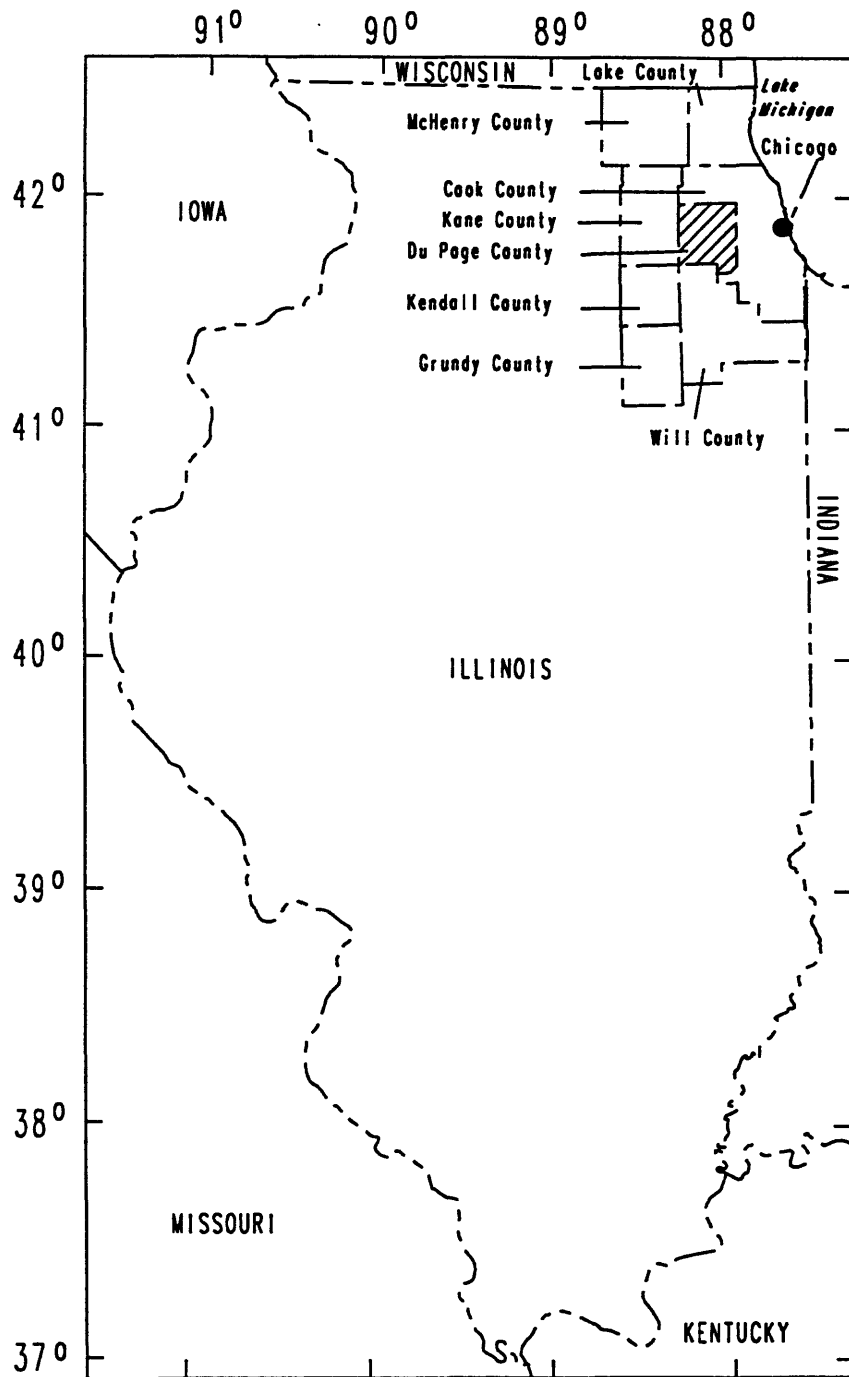
Rainfall for 14 rainfall-gaging stations located in and near Du Page County, Illinois, are presented. The rainfall data were collected from February 1986 through September 1991 as part of an on-going cooperative rainfall-runoff investigation. Station descriptions identify the location of and equipment installed at each rainfall-gaging station. Total daily rainfall is tabulated for each rainfall-gaging station for each water year. Periods of missing record and snow-affected precipitation totals are identified.

INTRODUCTION

Rapid urbanization often leads to significant changes in the hydrologic environment. Generally, higher peak flows and an increased frequency of flood events occur when an area undergoes urbanization. Large flood events often have serious social and economic impacts. Engineers and planners frequently have the difficult responsibility of mitigating flood-related damages in urban areas. This task is often compounded by a lack of hydrologic data for small, urban watersheds. Hydrologic data are vital in the analysis of stormwater-management problems and the development of engineering solutions.

In response to recent flooding and to State legislation, the Du Page County Department of Environmental Concerns (DCDEC) has implemented a county-wide, comprehensive, stormwater-management plan. An inherent part of the stormwater-management plan is the collection of hydrologic data in small, urban watersheds. The U.S. Geological Survey, Water Resources Division, Illinois District, began an investigation in 1985 in cooperation with the DCDEC to collect and analyze rainfall and streamflow data from three small, urban watersheds in Du Page County. The data collected will be used to calibrate a distributed-parameter, continuous-simulation, rainfall-runoff model. The calibrated model will be used to simulate stormflow hydrographs in order to evaluate a variety of watershed conditions.

Du Page County is located in northeastern Illinois, approximately 17 mi west of the city of Chicago (fig. 1). The county has one of the fastest-growing populations in the Midwest. Rapid urbanization throughout the area has drastically altered the hydrologic conditions. Storm sewers route runoff from urban areas to wastewater-treatment facilities or directly to the stream channels. In some parts of the study area, manmade retention ponds provide temporary storage of stormwater runoff.



Base from U.S. Geological Survey
 1:1,000,000 Digital Line Graphs
 Albers Equal-Area Conic Projection
 Standard parallels 33° and 44°, central meridian -89°

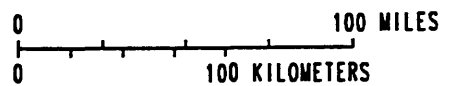


Figure 1.--Location of Du Page County, Illinois.

Purpose and Scope

The purpose of this report is to present rainfall data collected from 14 rainfall-gaging stations in and near Du Page County, Illinois, from February 1986 through September 1991. Total daily rainfall is tabulated for each rainfall-gaging station for the period of study. Station descriptions identifying the location of and equipment installed at each station are given.

Acknowledgments

The authors wish to acknowledge the assistance of the staff of the municipal wastewater-treatment facilities and private landowners who allowed the installation of rainfall-gaging stations on their property.

DESCRIPTION OF STUDY AREA

The study area is located in northeastern Illinois. It includes all of Du Page County and portions of the surrounding counties.

Physiography

The study area is located almost entirely within the Wheaton Morainal Region of the Central Lowlands Province (Leighton, Ekblaw, and Horberg, 1948). The topography can be characterized generally as low lying and poorly drained. Drainage boundaries typically are defined by low morainal ridges. The morainal ridges were formed during the Wisconsin glacial period and are the predominant topographical feature in the study area. Land-surface elevations range from 585 ft in the southeastern portion of the county to 830 ft in the northwestern corner of the county.

The major watersheds within the study area are drained by the East and West Branches of the Du Page River and by Salt Creek. These rivers generally flow south and are tributaries to the Des Plaines River.

Climate

Northeastern Illinois has a temperate, humid, continental climate that is slightly modified by Lake Michigan. Long-term climatic data are available for the National Oceanic and Atmospheric Administration (NOAA) gages in and near the study area (fig. 2). The long-term average annual precipitation for the study area is approximately 33 in., and the long-term mean annual temperature for the study area is approximately 49°F (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, 1990). Wind speed and wind direction are measured at the NOAA gage at O'Hare International Airport in the northeastern part of the study area and at the Argonne National Laboratory gage in the southern part of the study area.

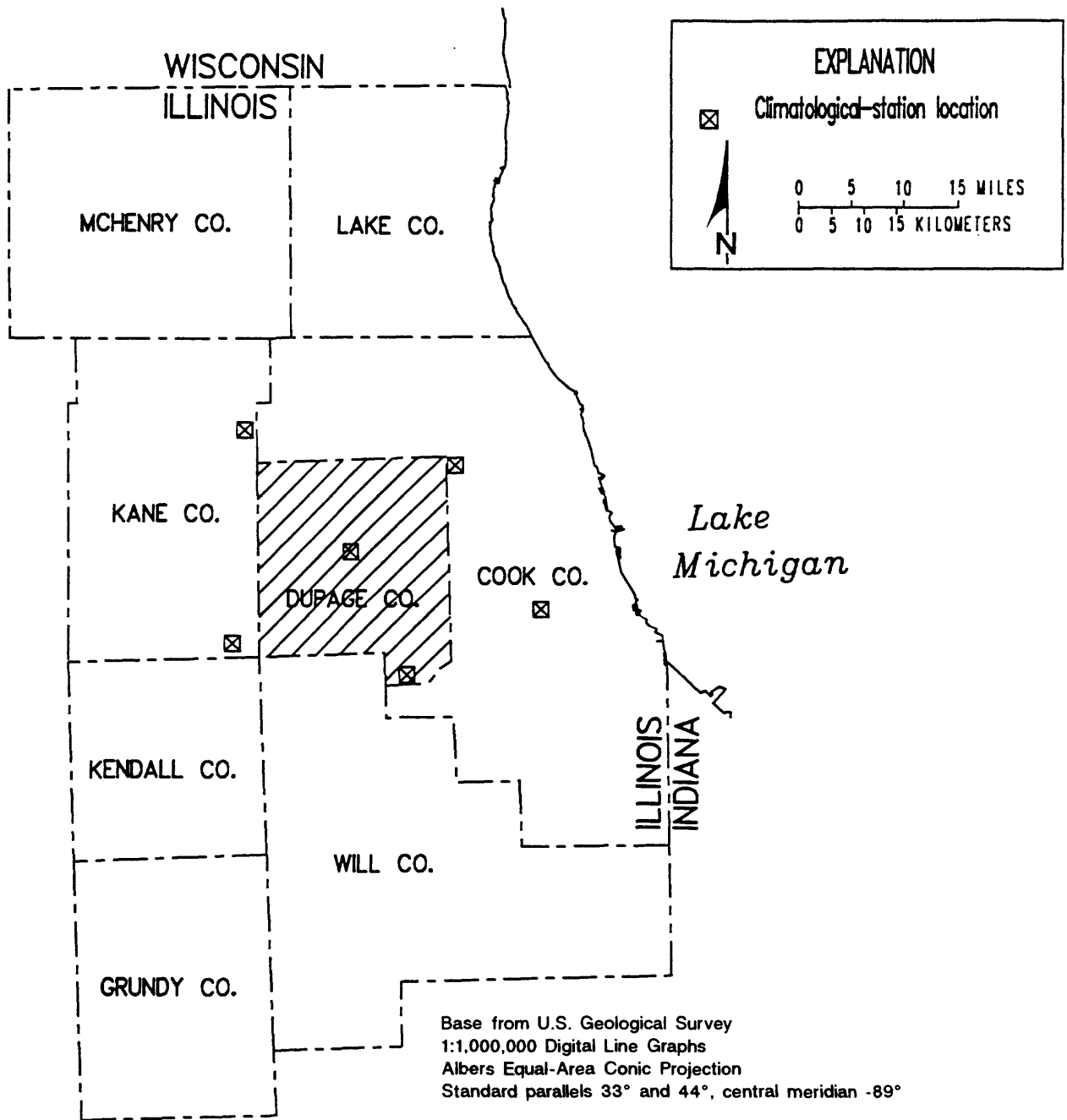


Figure 2.--Locations of climatological stations in and near Du Page County, Illinois.

METHODS OF STUDY

The spatial and temporal distribution of rainfall throughout the study area was defined by rainfall data collected at rainfall-gaging stations installed throughout the study area. The data collection and analysis effort began in February 1986 with the installation of two rainfall-gaging stations. Additional rainfall-gaging stations were installed during the period of study.

Data Collection

A network of 14 tipping-bucket rain gages was installed throughout the study area (fig. 3 and table 1). The rain gages were attached to electronic data loggers that recorded the amount of rainfall in 0.01-in. increments at 5-minute intervals. Two of the fourteen rain gages have thermostatically controlled heating elements, which provide a water equivalent for snowfall.

The location of rainfall-gaging stations was based on a distributed spatial coverage of the study area and site suitability. Consideration was given to the siting requirements with regard to the proximity of structures and obstructions.

Data Analysis

Rainfall data were collected for approximately 80 percent of the cumulative period of record for all of the stations. Periods of missing record exist for 13 of the 14 rainfall-gaging stations because of occasional equipment failure or debris clogging the rain-gage funnel. Data from some winter periods are of questionable quality because of the possibility that snow or ice accumulated in the rain-gage funnel during cold periods and then melted as the temperature rose. These periods were identified by periodic inspections of the rain gages and by examination of the rain-gage data in conjunction with snowfall, snow depth, temperature, and precipitation data from NOAA climatological stations. Minor corrections to rainfall totals from periods of intense rainfall were made based on the rain-gage manufacturer's specifications. This was done to correct for under-recording caused by overflow as water enters the tipping-bucket mechanism from the rain-gage funnel.

RAINFALL DATA

The rainfall-gaging stations are presented in order of increasing station number. A station description is presented for each rainfall-gaging station. Total daily rainfall is tabulated by water year for the period of record at each station. Five-minute values of rainfall at each station are available from the Illinois District upon request.

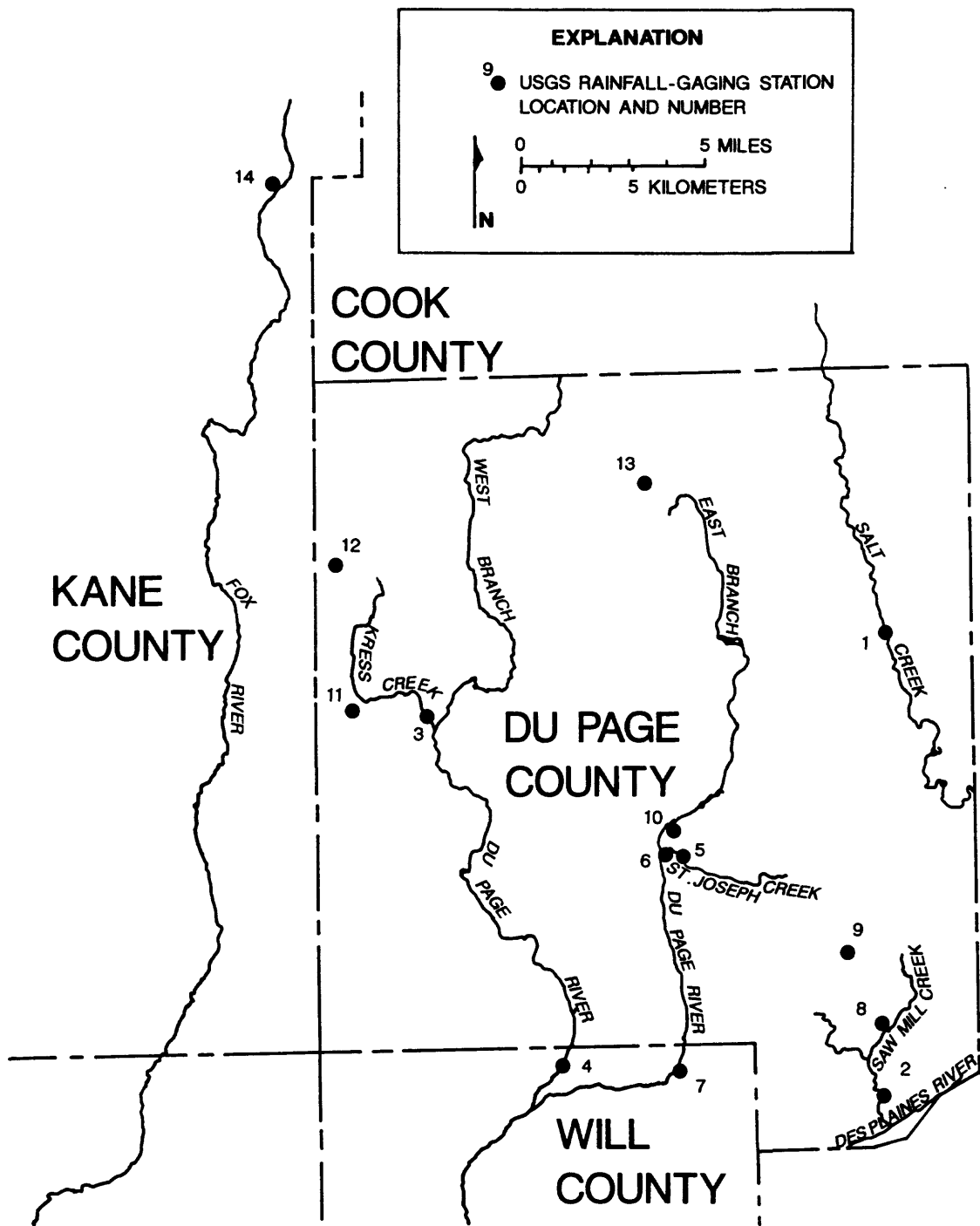


Figure 3.--Locations of U.S. Geological Survey rain gages in and near the study area.

Table 1.--Rainfall data-collection sites

[Site identifiers correspond to those in figure 3;
Lat, latitude; Long, longitude]

Site identifier	Station number	Station name and location
1	05531300	Salt Creek at Elmhurst Lat: 41°53'20" Long: 87°57'41"
2	05533400	Sawmill Creek near Lemont Lat: 41°42'28" Long: 87°57'45"
3	05540060	Kress Creek at West Chicago Lat: 41°51'23" Long: 88°12'15"
4	05540130	West Branch Du Page River near Naperville Lat: 41°43'13" Long: 88°07'55"
5	05540195	St. Joseph Creek at State Highway 34 at Lisle Lat: 41°48'06" Long: 88°04'08"
6	05540200	St. Joseph Creek at Lisle Lat: 41°48'09" Long: 88°04'40"
7	05540250	East Branch Du Page River at Bolingbrook Lat: 41°43'05" Long: 88°04'14"
8	414411087575000	Marienbrook Wastewater Treatment Facility at Darien Lat: 41°44'11" Long: 87°57'50"
9	414552087585600	Clarendon Hills Cemetery at Darien Lat: 41°45'52" Long: 87°58'56"
10	414843088042500	Morton Arboretum near Lisle Lat: 41°48'43" Long: 88°04'25"
11	415131088143600	National Accelerator Laboratory near West Chicago Lat: 41°51'31" Long: 88°14'36"
12	415457088150600	Du Page County Airport near St. Charles Lat: 41°54'57" Long: 88°15'06"
13	415651088051900	Bloomington Lift Station at Bloomington Lat: 41°56'51" Long: 88°05'19"
14	420354088170500	Elgin Wastewater Treatment Facility at Elgin Lat: 42°03'54" Long: 88°17'05"

Salt Creek at Elmhurst, Illinois

Site identifier.--1

Station number.--05531300

Location.--Latitude 41°53'20", longitude 87°57'41", in NE1/4NE1/4NE1/4 sec.10, T.39 N., R.11 E., Du Page County, on left downstream side of bridge on State Highway 83 in Elmhurst (Elmhurst 7.5-minute quadrangle).

To reach gage.--From north: From intersection of U.S. Highway 90 and State Highway 83, drive south on State Highway 83 approximately 2.5 mi to St. Charles Road. Turn east on St. Charles Road. Proceed approximately 50 ft to Scott Street. Turn south on Scott Street. Park on the west side of Scott Street near the water tower. The gage is located in the open area between Scott Street and State Highway 83, approximately 100 ft west of Scott Street.

From south: From intersection of State Highway 83 and State Highway 56, drive north on State Highway 83 approximately 1.5 mi to St. Charles Road. From the intersection of State Highway 83 and St. Charles Road, follow the directions listed in the previous paragraph.

Drainage basin.--Salt Creek.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on top of a wooden post approximately 7 ft above the ground. A multiparameter electronic data logger, housed inside a weatherproof electrical enclosure and mounted to a wooden shelter near the left downstream wingwall of bridge on State Highway 83, records rainfall data.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--October 16, 1989, to present. Periods of missing record exist because of equipment-related problems.

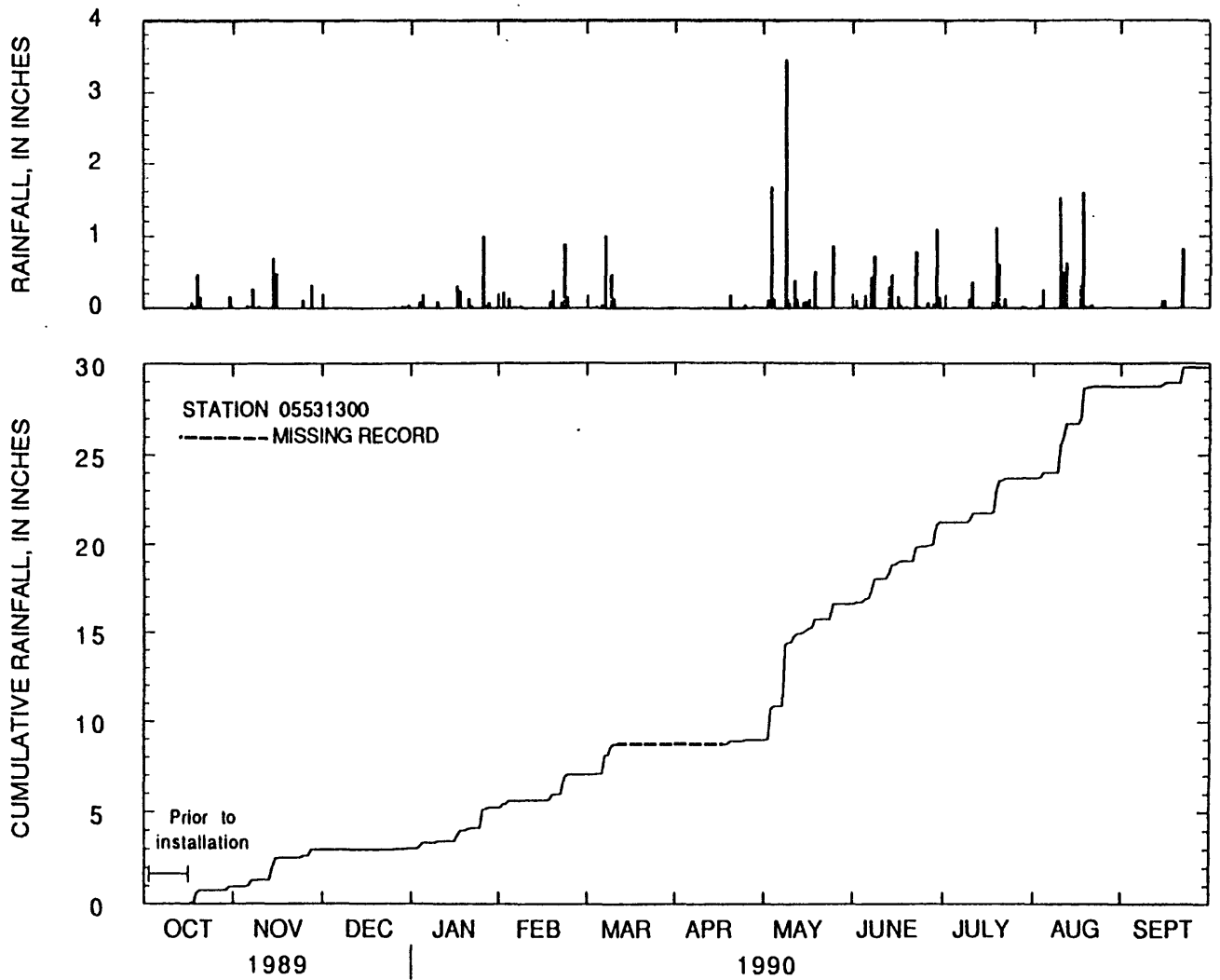


Figure 4.--Daily rainfall totals and cumulative rainfall at Salt Creek at Elmhurst, Illinois, water year 1990.

05531300 Salt Creek at Elmhurst, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	0.00	0.00	0.00	0.22	0.00	m	0.00	0.00	0.00	0.00	0.00
2	--	.00	.00	.00	.00	.00	m	.00	.10	.00	.00	.00
3	--	.00	.00	s.09	s.13	.00	m	.11	.00	.00	.04	.00
4	--	.00	.00	s.19	.00	.00	m	1.66	.00	.00	.26	.00
5	--	.04	.00	.00	.01	s.01	m	.13	.18	.01	.00	.00
6	--	.02	.00	.00	.00	.00	m	.00	.00	.00	.00	.00
7	--	.27	.00	.00	.02	s.04	m	.00	.44	.00	.00	.00
8	--	.00	.00	.00	.00	1.00	m	.00	.73	.00	.00	.00
9	--	.02	.00	.09	.00	.00	m	3.45	.00	.00	.00	.00
10	--	.00	.00	.00	.00	.47	m	.11	.00	.13	1.52	.00
11	--	.00	.00	.00	.00	.13	m	.00	.00	.37	.52	.00
12	--	.00	.00	.00	.00	m	m	.39	.00	.00	.64	.00
13	--	.01	.00	.00	.00	m	m	.12	.30	.02	.00	.00
14	--	.71	.00	.00	.00	m	m	.00	.47	.00	.00	.10
15	--	.49	.00	.00	.00	m	m	.08	.00	.00	.00	.10
16	p0.02	.00	.00	.31	.00	m	m	.09	.17	.00	.00	.00
17	.08	.00	.00	.25	s.09	m	0.00	.12	.04	.00	.32	.00
18	s.04	.00	.00	.00	s.25	m	.00	.00	.00	.09	1.60	.00
19	s.48	.00	.00	.00	.00	m	.00	.51	.01	1.11	.03	.00
20	s.17	.00	.00	.13	.00	m	.18	.01	.00	.62	.02	.00
21	.00	.00	.00	s.03	s.08	m	.00	.00	.00	.01	.05	.83
22	.00	.00	.00	.00	s.89	m	.00	.00	.79	.14	.00	.00
23	.00	.00	.00	.00	s.16	m	.00	.00	.02	.00	.00	.00
24	.00	s.11	.00	.00	.00	m	.00	.00	.00	.00	.00	.00
25	.00	.00	s.01	s.99	.00	m	.04	.86	.00	.00	.00	.00
26	.00	.00	.00	s.03	.00	m	.00	.00	.07	.00	.00	.00
27	.00	.33	.00	s.07	.00	m	.00	.00	.00	.00	.00	.00
28	.00	.00	s.02	.00	.00	m	.01	.00	.06	.02	.00	.00
29	.00	.00	s.01	.00	--	m	.00	.00	1.09	.01	.00	.00
30	.17	.00	s.04	.00	--	m	.00	.00	.15	.00	.00	.00
31	.02	--	.00	.00	--	m	--	.00	--	.00	.00	--
Total	--	2.00	0.08	2.18	1.85	--	--	7.64	4.62	2.53	5.00	1.03

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

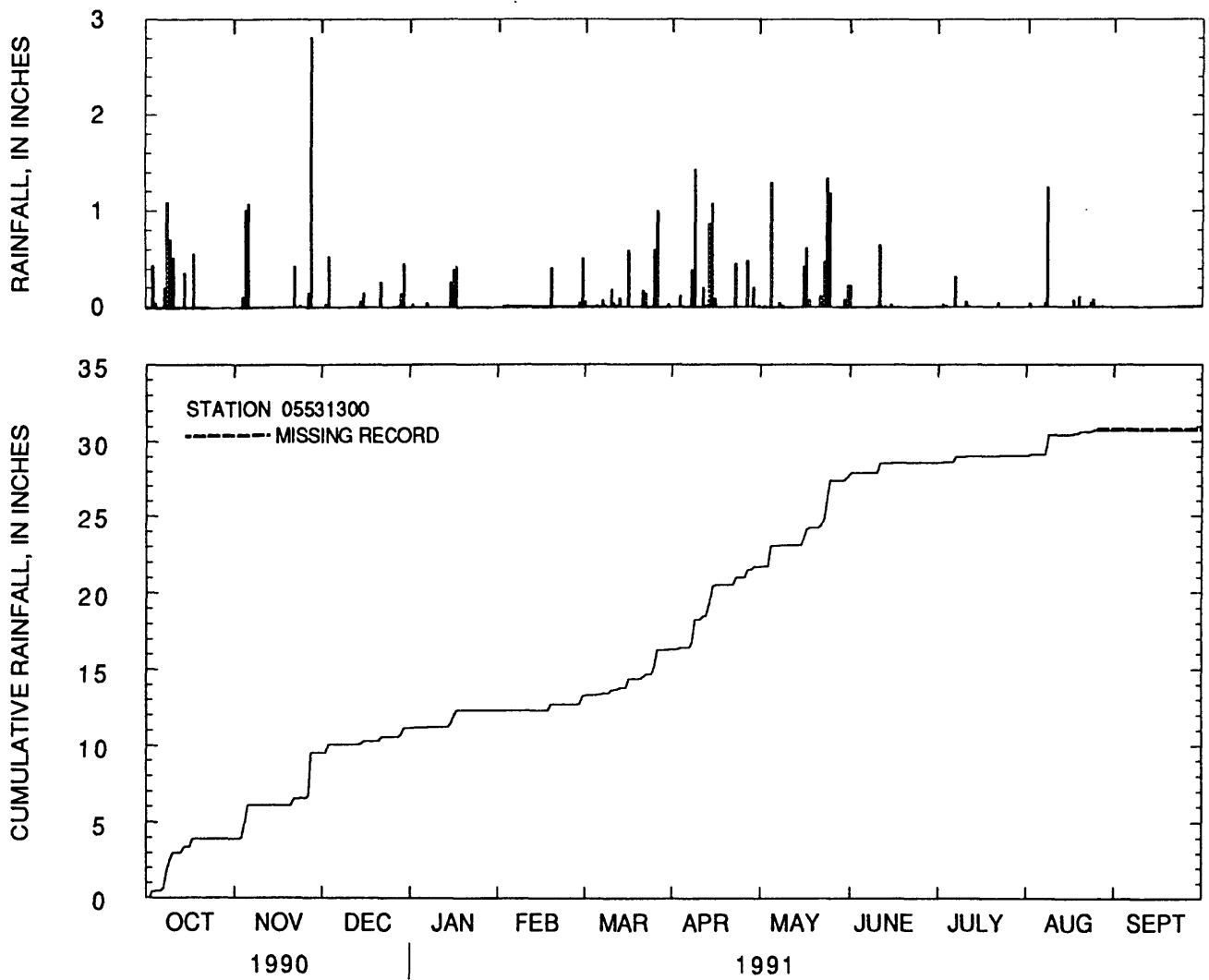


Figure 5.--Daily rainfall totals and cumulative rainfall at Salt Creek at Elmhurst, Illinois, water year 1991.

05531300 Salt Creek at Elmhurst, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	s0.03	0.00	0.51	0.00	0.02	0.23	0.00	0.00	m
2	.00	.00	.03	.00	.00	.06	.00	.00	.00	.00	.04	m
3	.44	.11	.53	.00	.02	.00	.00	.01	.00	.03	.00	m
4	.04	1.01	.00	.00	.00	.00	.12	.00	.00	.02	.00	m
5	.00	1.07	.00	.00	.00	.00	.01	1.30	.00	.00	.00	m
6	.00	.00	.00	s.04	.00	.02	.00	.00	.00	.00	.00	m
7	.21	.00	.00	.00	.00	.00	.00	.00	.00	.32	.05	m
8	1.09	.00	.00	.00	.00	.07	.39	.05	.00	.00	1.25	m
9	.71	.00	.00	.00	.00	.01	1.44	.02	.00	.00	.00	m
10	.52	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	m
11	.00	.00	.00	.00	.00	.19	.00	.00	.65	.06	.00	m
12	.00	.00	.00	.00	.00	s.04	.21	.00	.01	.01	.00	m
13	.00	.00	.00	.00	.00	s.02	.02	.00	.01	.00	.00	m
14	.36	.00	s.06	s.26	.00	s.09	.87	.00	.00	.00	.00	m
15	.00	.00	.15	s.39	.00	.00	1.08	.00	.03	.00	.00	m
16	.00	.00	.00	s.42	.00	.00	.09	.43	.00	.00	.00	m
17	.56	.00	.00	.00	.00	.59	.00	.62	.00	.00	.07	m
18	.00	.00	.00	.00	s.41	.00	.00	.08	.00	.00	.00	m
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	m
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	m
21	.00	.43	.26	.00	.00	.00	.00	.00	.00	.00	.00	m
22	.00	.00	.00	.00	.00	.17	.00	.12	.00	.05	.00	m
23	.00	.02	.00	.00	.00	.14	.46	.48	.00	.00	.05	m
24	.00	.00	.00	.00	.00	.00	.00	1.34	.00	.00	.08	m
25	.00	.00	.00	.00	.00	.00	.00	1.19	.00	.00	.00	m
26	.00	.15	.00	.00	.00	.60	.00	.00	.00	.00	.00	p0.00
27	.00	2.81	s.01	.00	.00	1.00	.49	.00	.00	.00	.01	.00
28	.00	.00	.14	.00	s.05	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.45	.00	--	.00	.21	.00	.00	.00	m	.00
30	.00	.00	.00	.00	--	.00	.00	.08	.00	.00	m	.00
31	.00	--	.00	.00	--	s.03	--	.23	--	.00	m	--
Total	3.93	5.60	1.63	1.14	0.48	3.54	5.39	5.97	0.94	0.49	--	--

m Missing record.
p Partial record.
s Snowfall-affected precipitation.

Sawmill Creek near Lemont, Illinois

Site identifier.--2

Station number.--05533400

Location.--Latitude 41°42'28", longitude 87°57'45", in NE1/4NE1/4SW1/4 sec.10, T.37 N., R.11 E., Du Page County, on steel post approximately 10 ft above ground, approximately 150 ft west of bridge on Bluff Road at south edge of Argonne National Laboratory, 2.5 mi northeast of Lemont (Sag Bridge 7.5-minute quadrangle).

To reach gage.--From south: From the intersection of State Highway 83 and Bluff Road, drive west on Bluff Road approximately 0.8 mi to the gate across Bluff Road. Rain gage is 750 ft west of the Forest Preserve gate.

From north: From intersection of U.S. Highway 55 and Cass Avenue, drive south on Cass Avenue. Cass Avenue becomes Bailey Road south of the Argonne National Laboratory main entrance. Proceed south to the intersection of Bailey Road and Bluff Road. Turn west and proceed through the Forest Preserve gate. The rain gage is located approximately 750 ft west of the Forest Preserve gate.

Drainage basin.--Sawmill Creek.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted to a steel post, approximately 10 ft above the ground. The electronic data logger is housed in a weatherproof electrical enclosure located at the streamflow-gaging site on the upstream side of bridge on Bluff Road.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--April 17, 1986, to present. Periods of missing record exist because of equipment-related problems.

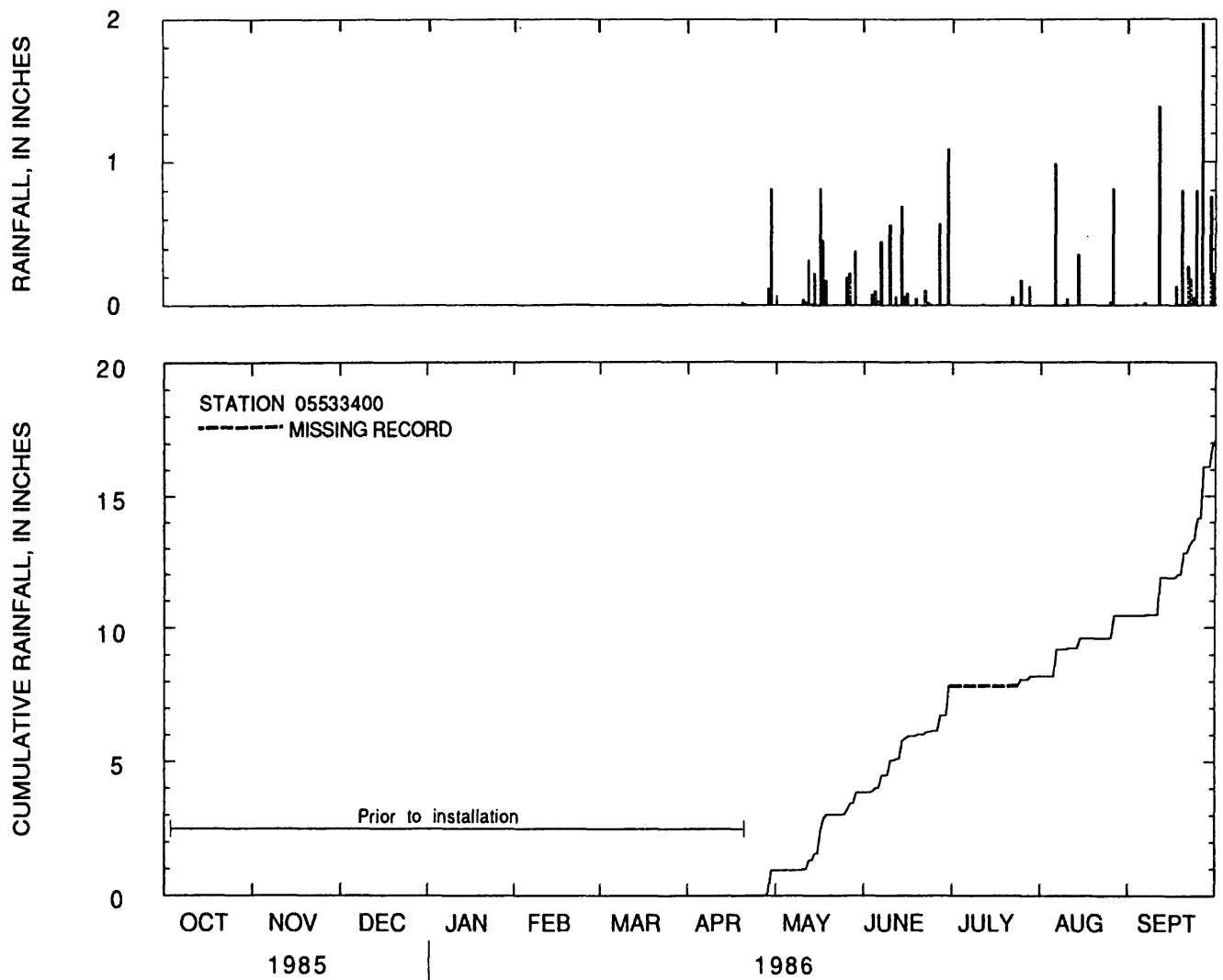


Figure 6.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1986.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1985 to September 1986
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	0.00	0.00	m	0.00	0.00
2	--	--	--	--	--	--	--	.00	.00	m	.00	.00
3	--	--	--	--	--	--	--	.00	.00	m	.00	.01
4	--	--	--	--	--	--	--	.00	.08	m	.00	.00
5	--	--	--	--	--	--	--	.00	.10	m	.00	.00
6	--	--	--	--	--	--	--	.00	.03	m	.99	.02
7	--	--	--	--	--	--	--	.00	.45	m	.00	.00
8	--	--	--	--	--	--	--	.00	.00	m	.00	.00
9	--	--	--	--	--	--	--	.00	.00	m	.00	.00
10	--	--	--	--	--	--	--	.00	.56	m	.05	.00
11	--	--	--	--	--	--	--	.04	.00	m	.00	1.39
12	--	--	--	--	--	--	--	.02	.06	p0.01	.00	.00
13	--	--	--	--	--	--	--	.32	.00	.00	.00	.00
14	--	--	--	--	--	--	--	.01	.69	.00	.36	.00
15	--	--	--	--	--	--	--	.23	.07	.00	.00	.00
16	--	--	--	--	--	--	--	.00	.09	.00	.00	.00
17	--	--	--	--	--	--	p0.00	.81	.00	.00	.00	.14
18	--	--	--	--	--	--	.00	.46	.00	.00	.00	.01
19	--	--	--	--	--	--	.00	.18	.05	.00	.00	.80
20	--	--	--	--	--	--	.02	.00	.00	.00	.00	.01
21	--	--	--	--	--	--	.01	.00	.00	.00	.00	.28
22	--	--	--	--	--	--	.00	.00	.11	.06	.00	.19
23	--	--	--	--	--	--	.00	.00	.02	.00	.00	.06
24	--	--	--	--	--	--	.00	.00	.01	.00	.00	.80
25	--	--	--	--	--	--	.00	.00	.00	.18	.03	.00
26	--	--	--	--	--	--	.00	.20	.00	.00	.81	1.98
27	--	--	--	--	--	--	.00	.23	.57	.00	.00	.00
28	--	--	--	--	--	--	.00	.00	.00	.14	.00	.00
29	--	--	--	--	--	--	.12	.38	.00	.00	.00	.76
30	--	--	--	--	--	--	.81	.00	p1.09	.00	.00	.23
31	--	--	--	--	--	--	--	.00	--	.00	.00	--
Total	--	--	--	--	--	--	--	2.88	--	--	2.24	6.68

m Missing record.

p Partial record.

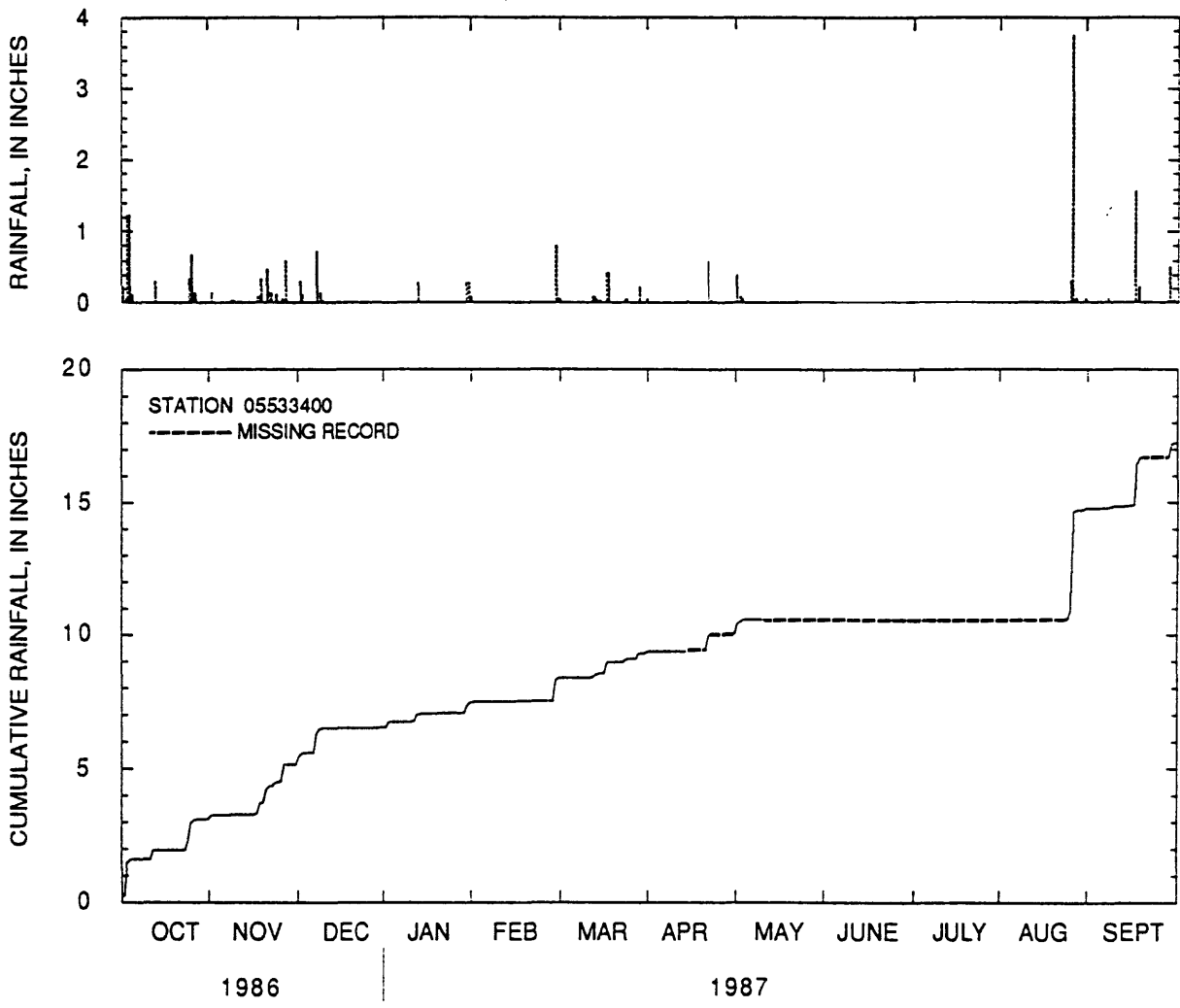


Figure 7.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1987.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1986 to September 1987
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.22	0.15	0.31	0.00	0.00	0.05	0.06	0.00	m	m	m	0.00
2	.07	.00	.12	s.21	.00	.00	.00	.39	m	m	m	.00
3	1.23	.00	.01	.00	.00	.00	.00	.09	m	m	m	.00
4	.11	.00	.00	.00	.00	.00	.00	.05	m	m	m	.00
5	.00	.00	.00	.00	.00	.00	.00	.01	m	m	m	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	m	m	m	.00
7	.00	.00	.73	.00	.00	.00	.00	.00	m	m	m	.05
8	.00	.03	.16	.00	.00	.00	.00	.00	m	m	m	.02
9	.00	.00	.03	.00	.00	.00	.00	.00	m	m	m	.00
10	.00	.00	.00	s.01	.00	.00	p.00	.00	m	m	m	.00
11	.01	.00	.00	s.01	.00	.00	m	m	m	m	m	.00
12	.30	.00	.00	s.27	.00	.00	m	m	m	m	m	.02
13	.00	.00	.00	s.01	.01	s.08	m	m	m	m	m	.00
14	.00	.00	.00	.00	.01	s.06	p.01	m	m	m	m	.01
15	.00	.00	.00	.00	.00	.03	.03	m	m	m	m	.02
16	.00	.00	.00	.00	.00	.00	.00	m	m	m	m	1.55
17	.00	.09	.00	.00	.00	.00	p.00	m	m	m	m	p.23
18	.00	s.35	.00	s.01	.00	.43	m	m	m	m	m	m
19	.00	.00	.00	s.01	.00	.00	m	m	m	m	m	m
20	.00	s.48	.00	.00	.00	.00	m	m	m	m	m	m
21	.00	.15	.00	s.01	.00	.00	m	m	m	m	m	m
22	.00	.01	.00	.00	.00	.00	.59	m	m	m	m	p.00
23	.00	.12	.00	.00	.00	.00	.03	m	m	m	m	.00
24	.35	.00	.00	.00	.00	.07	.01	m	m	m	m	.00
25	.67	.07	.00	.00	.00	.06	.00	m	m	m	p0.31	.00
26	.14	.59	.00	.00	.00	.00	.00	m	m	m	3.75	.00
27	.01	.00	.00	.00	.00	.00	.01	m	m	m	.06	.03
28	.00	.00	.00	.01	.82	.00	.00	m	m	m	.00	.49
29	.00	.00	.02	s.29	--	.22	.00	m	m	m	.00	.04
30	.00	.00	.00	.10	--	.00	.00	m	m	m	.05	.00
31	.00	--	.00	.01	--	.00	--	m	m	m	.01	--
Total	3.11	2.04	1.38	0.95	0.84	1.00	--	--	--	--	--	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

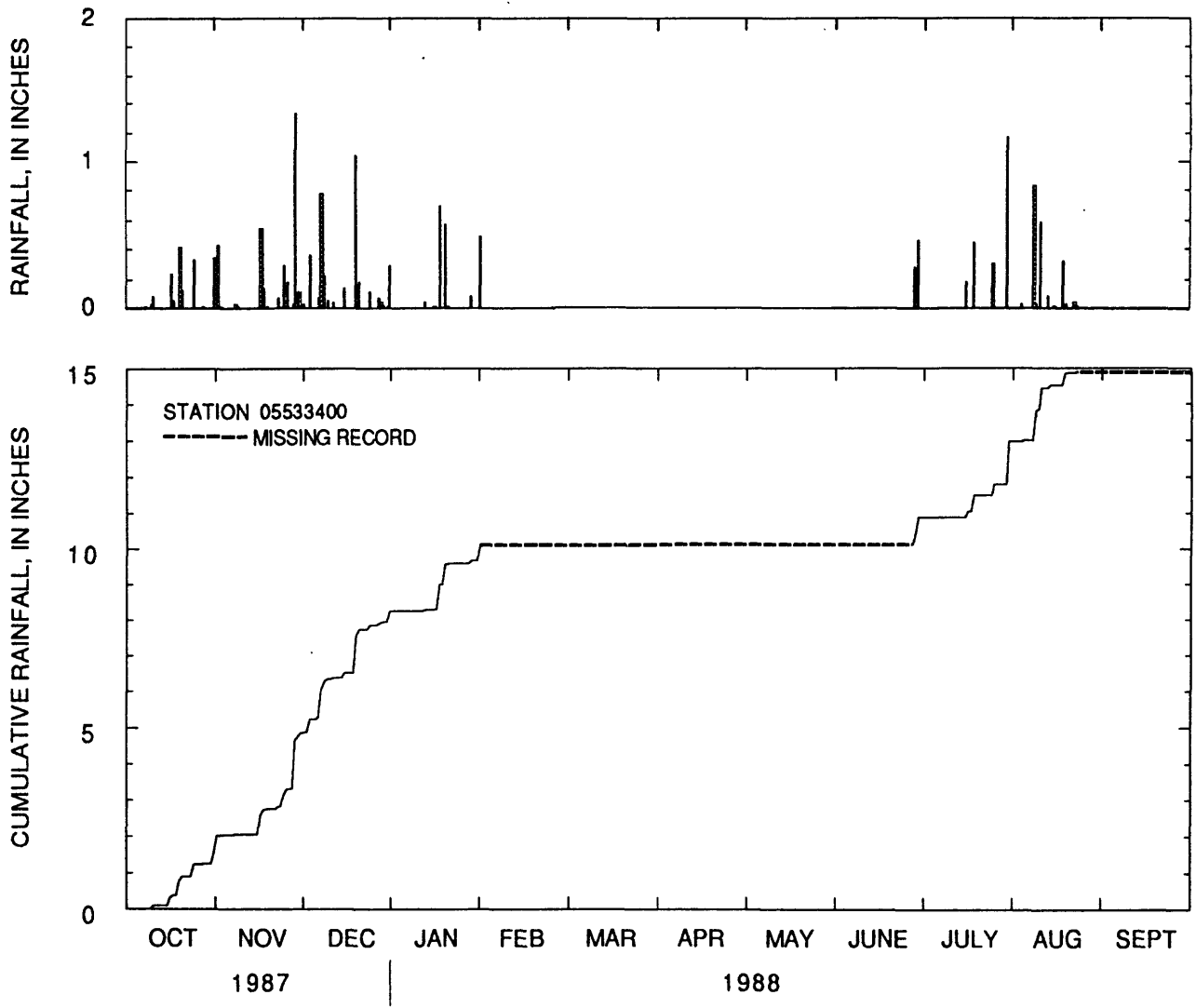


Figure 8.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1988.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1987 to September 1988
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.43	s0.02	0.00	m	m	m	m	m	0.00	0.00	m
2	.00	.01	.00	.00	m	m	m	m	m	.00	.00	m
3	.00	.00	s.35	.00	m	m	m	m	m	.00	.00	m
4	.00	.00	.00	.00	m	m	m	m	m	.00	.02	m
5	.00	.00	.00	.00	m	m	m	m	m	.00	.00	m
6	.00	.00	s.07	.00	m	m	m	m	m	.00	.00	m
7	.01	.02	s.77	.00	m	m	m	m	m	.00	.00	m
8	.00	.01	s.22	.00	m	m	m	m	m	.00	.83	m
9	.02	.00	s.05	.00	m	m	m	m	m	.00	.03	m
10	.08	.00	.00	.00	m	m	m	m	m	.00	.58	m
11	.00	.00	.04	.00	m	m	m	m	m	.00	.00	m
12	.00	.00	.00	s.04	m	m	m	m	m	.00	.00	m
13	.00	.00	.00	.00	m	m	m	m	m	.00	.08	m
14	.00	.00	.00	.00	m	m	m	m	m	.00	.00	m
15	.00	.00	s.13	s.01	m	m	m	m	m	.00	.01	m
16	.23	.54	.00	s.01	m	m	m	m	m	.18	.00	m
17	.05	.14	.00	s.69	m	m	m	m	m	.00	.00	m
18	.00	.01	.00	s.01	m	m	m	m	m	.44	.32	m
19	.41	.00	s1.04	s.56	m	m	m	m	m	.00	.03	m
20	.12	.00	s.18	.01	m	m	m	m	m	.00	.00	m
21	.00	.00	.00	.00	m	m	m	m	m	.00	.00	m
22	.00	.07	.00	.00	m	m	m	m	m	.00	.04	m
23	.00	.01	.00	.00	m	m	m	m	p0.00	.00	.01	m
24	.33	.29	s.10	.00	m	m	m	m	.00	.00	.00	m
25	.00	.18	.00	.00	m	m	m	m	.00	.30	.00	m
26	.00	.00	.00	.00	m	m	m	m	.00	.00	.00	m
27	.01	.03	s.06	.00	m	m	m	m	.00	.00	m	m
28	.00	1.34	s.04	.08	m	m	m	m	.28	.00	m	m
29	.00	.10	s.01	.00	m	m	m	m	.46	.00	m	m
30	.00	.10	s.01	.00	--	m	--	m	--	1.17	m	m
31	.34	--	s.29	.48	--	m	--	m	--	.00	m	--
Total	1.60	3.28	3.38	1.89	--	--	--	--	--	2.09	--	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

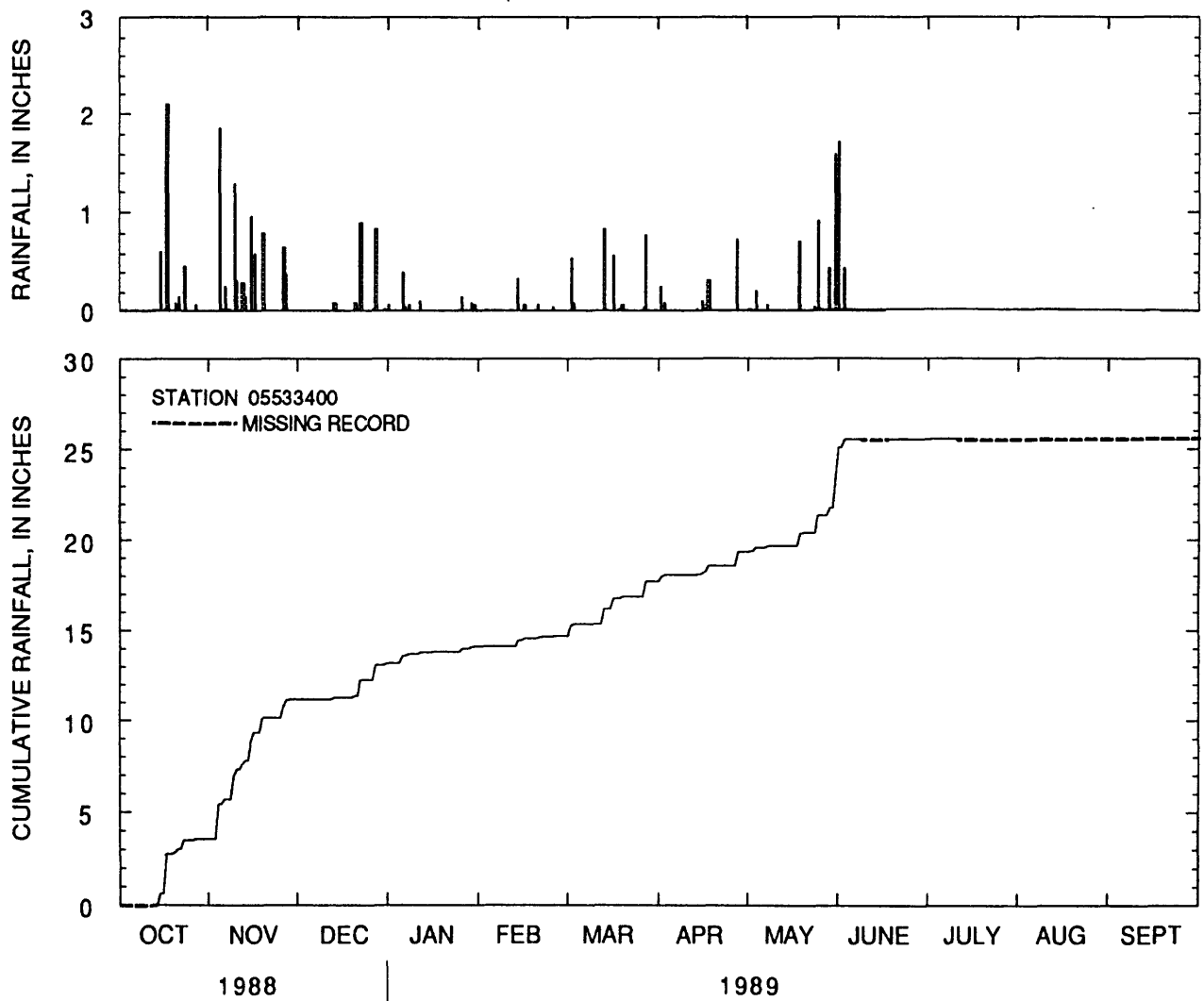


Figure 9.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1989.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.00	m	m
2	m	.00	.00	.00	.00	.00	.26	.03	.00	.04	m	m
3	p0.00	.00	.00	.00	.00	s.55	.10	.00	.44	.00	m	m
4	.01	1.86	.00	.00	.00	s.10	.01	.22	.00	.00	m	m
5	.00	s.02	.00	.39	.00	.00	.00	.01	.00	.00	m	m
6	.00	s.25	.00	.04	.00	.00	.01	.00	.00	.00	m	m
7	.00	.02	.00	.06	.00	.00	.00	.00	.00	.00	m	m
8	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	m	m
9	.00	1.30	.00	.00	.00	.00	.00	.00	.00	.00	m	m
10	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00	m	m
11	.00	.02	.00	.11	s.01	.00	.00	.00	.00	m	m	m
12	.00	.29	.00	.01	.00	.00	.00	.00	m	m	m	m
13	.00	.16	s.09	.00	s.33	.00	.00	.00	m	m	m	m
14	.00	.00	.00	.00	.00	.85	.03	.00	m	m	m	m
15	.61	.95	.00	.01	s.08	.00	.00	.00	m	m	m	m
16	.02	.58	.00	.00	s.01	.00	.11	.00	m	m	m	m
17	2.12	.00	.00	.00	.00	.56	.06	.00	m	m	m	m
18	.01	.00	s.01	.00	.00	.00	.31	.01	m	m	m	m
19	.00	.80	.00	.00	s.01	s.02	.00	.71	m	m	m	m
20	.10	.00	.10	.00	s.06	s.08	.00	.01	p.00	m	m	m
21	.16	.00	.00	.00	s.01	.00	.00	.00	.00	m	m	m
22	.00	.00	.90	.00	.00	.00	.00	.00	.00	m	m	m
23	.47	.00	.00	.00	.00	.00	.00	.00	.00	m	m	m
24	.01	.00	.00	.00	.00	.00	.00	.05	.00	m	m	m
25	.00	.00	.00	.15	s.04	.00	.00	.92	.00	m	m	m
26	.00	.64	s.03	.01	s.01	.00	.00	.02	.00	m	m	m
27	.06	.38	s.83	.00	.00	.05	.00	.00	.01	m	m	m
28	.00	s.01	.00	.09	.00	.78	.74	.00	.00	m	m	m
29	.00	.00	.00	.06	--	.00	.00	.44	.00	m	m	m
30	.00	.00	s.03	.00	--	.00	.00	.00	.00	m	m	m
31	.00	--	s.06	.00	--	.00	--	1.58	--	m	m	--
Total	--	7.60	2.05	0.93	0.56	2.99	1.63	4.07	--	--	--	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

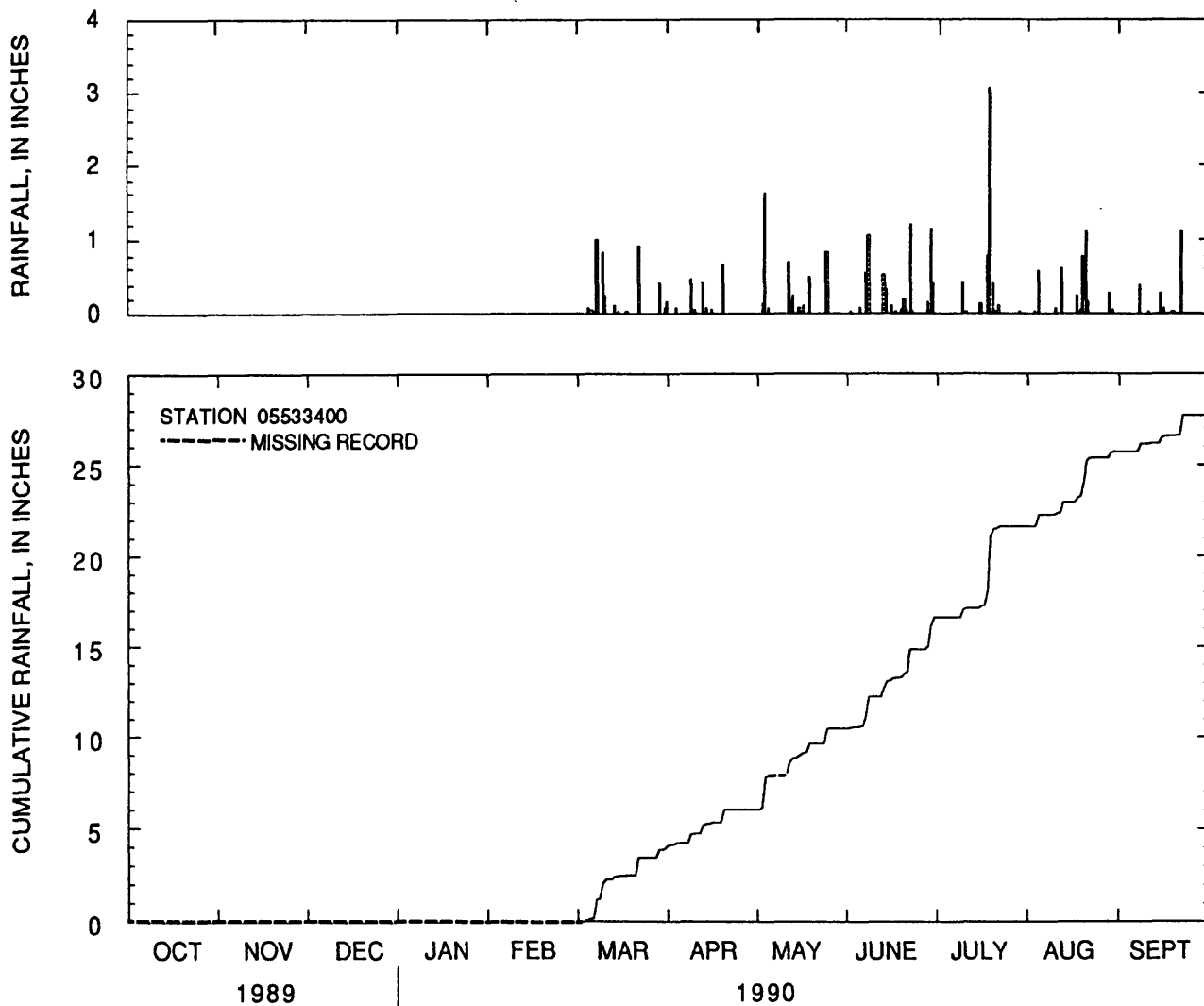


Figure 10.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1990.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	m	m	m	m	0.17	0.00	0.00	0.01	0.00	0.00
2	m	m	m	m	m	0.00	.01	.00	.04	.00	.00	.00
3	m	m	m	m	m	.00	.00	.15	.00	.00	.02	.00
4	m	m	m	m	m	.00	.09	1.62	.00	.00	.59	.00
5	m	m	m	m	m	s.08	.00	.08	.09	.00	.00	.00
6	m	m	m	m	m	s.07	.00	.01	.00	.00	.00	.01
7	m	m	m	m	m	s.02	.00	.00	.55	.00	.00	.40
8	m	m	m	m	m	1.01	.00	.00	1.06	.00	.00	.00
9	m	m	m	m	m	.01	.48	m	.00	.00	.00	.00
10	m	m	m	m	m	.83	.05	m	.00	.44	.10	.04
11	m	m	m	m	m	.25	.00	p.00	.00	.04	.00	.00
12	m	m	m	m	m	.01	.00	.70	.00	.00	.62	.00
13	m	m	m	m	m	.01	.44	.24	.54	.00	.00	.00
14	m	m	m	m	m	.13	.10	.01	.35	.00	.00	.29
15	m	m	m	m	m	.04	.00	.10	.00	.00	.00	.10
16	m	m	m	m	m	.00	.06	.08	.13	.14	.00	.01
17	m	m	m	m	m	.00	.00	.11	.04	.00	.27	.00
18	m	m	m	m	m	s.03	.00	.00	.00	.79	.05	.03
19	m	m	m	m	m	s.01	.00	.50	.07	3.08	.79	.01
20	m	m	m	m	m	.00	.68	.01	.21	.41	1.10	.01
21	m	m	m	m	m	.00	.00	.00	.07	.02	.17	1.10
22	m	m	m	m	m	.93	.00	.00	1.20	.11	.01	.00
23	m	m	m	m	m	.00	.00	.00	.02	.00	.00	.00
24	m	m	m	m	m	.00	.00	.00	.00	.00	.00	.00
25	m	m	m	m	m	.00	.00	.83	.00	.00	.00	.00
26	m	m	m	m	m	.00	.00	.00	.00	.00	.00	.00
27	m	m	m	m	m	.00	.00	.00	.00	.00	.00	.00
28	m	m	m	m	m	.00	.01	.00	.17	.00	.28	.00
29	m	m	m	m	--	.42	.00	.00	1.15	.03	.06	.00
30	m	m	m	m	--	.00	.00	.00	.43	.00	.00	.00
31	m	--	m	m	--	.09	--	.00	--	.00	.00	--
Total	--	--	--	--	--	--	2.09	--	6.12	5.07	4.06	2.00

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

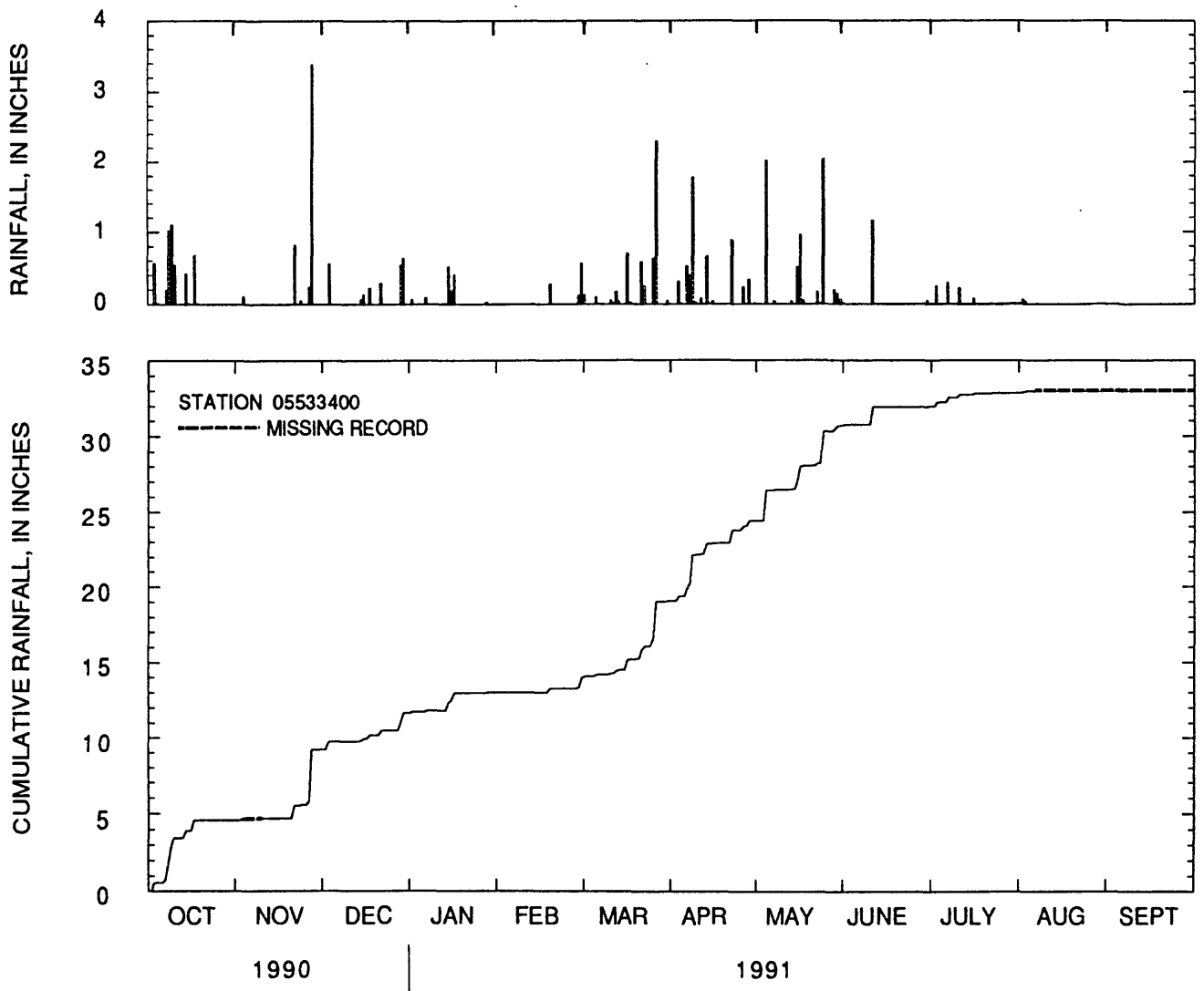


Figure 11.--Daily rainfall totals and cumulative rainfall at Sawmill Creek near Lemont, Illinois, water year 1991.

05533400 Sawmill Creek near Lemont, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0.00	0.00	0.00	s0.07	0.00	0.57	0.00	0.02	0.02	0.01	0.00	m
2	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.07	m
3	.57	.11	.56	.00	.00	.00	.00	.01	.00	.25	.04	m
4	.01	m	.00	.00	.00	.00	.32	.00	.00	.01	.00	m
5	.00	m	.00	.00	.00	.00	.01	2.02	.00	.00	.00	m
6	.00	m	.00	s.09	.00	.10	.00	.00	.00	.00	.00	m
7	.20	m	.00	.00	.00	.00	.53	.00	.00	.30	.01	m
8	1.02	m	.00	.00	.00	.01	.40	.04	.00	.00	m	m
9	1.10	m	.00	.00	.00	.00	1.78	.00	.00	.00	m	m
10	.55	.00	.00	.00	.00	.00	.03	.00	.00	.00	m	m
11	.00	.00	.00	.00	.00	.06	.00	.00	1.16	.23	m	m
12	.01	.00	.00	s.01	.00	s.02	.08	.00	.00	.00	m	m
13	.00	.00	.00	s.01	.00	s.18	.00	.00	.00	.00	m	m
14	.43	.00	s.07	s.52	.00	s.04	.66	.04	.00	.00	m	m
15	.01	.00	.13	s.20	.00	.00	.01	.00	.00	.00	m	m
16	.00	.00	.00	s.41	.00	.00	.04	.52	.00	.08	m	m
17	.68	.00	.23	.00	.00	.70	.00	.96	.00	.00	m	m
18	.01	.00	.00	.00	s.28	.03	.00	.06	.00	.00	m	m
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	m	m
20	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	m	m
21	.00	.82	.29	.00	.00	.00	.00	.00	.00	.00	m	m
22	.00	.00	.00	.00	.00	.58	.00	.00	.00	.02	m	m
23	.00	.05	.00	.00	.00	.25	.89	.18	.00	.00	m	m
24	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	m	m
25	.00	.00	.00	.00	.00	.00	.00	2.04	.00	.00	m	m
26	.00	.24	.00	.00	.00	.63	.00	.00	.00	.00	m	m
27	.00	3.39	.00	s.03	.00	2.30	.24	.00	.00	.00	m	m
28	.00	.00	.54	.00	s.12	.00	.00	.00	.00	.00	m	m
29	.00	.00	.64	.00	--	.00	.34	.20	.00	.02	m	m
30	.00	.00	.00	s.01	--	.00	.00	.15	.05	.00	m	m
31	.00	--	.00	.00	--	s.05	--	.07	--	.00	m	--
Total	4.59	--	2.46	1.35	0.40	5.66	5.33	6.33	1.23	0.92	--	--

m Missing record.

s Snowfall affected-precipitation.

Kress Creek at West Chicago, Illinois

Site identifier.--3

Station number.--05540060

Location.--Latitude 41°51'23", longitude 88°12'15", in SW1/4SW1/4SW1/4 sec.15, T.39 N., R.9 E., Du Page County, northwest of the intersection of Wilson Street and Joliet Road, 0.5 mi south of West Chicago (Naperville 7.5-minute quadrangle).

To reach gage.--From south: From the intersection of State Highway 59 and Joliet Road, drive north on Joliet Road about 0.4 mi. The rain gage is on the west side of Joliet Road, just north of the intersection of Wilson Street and Joliet Road.

From east: From intersection of State Highway 59 and Wilson Street, drive west on Wilson Street about 0.4 mi.

Drainage basin.--Kress Creek.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a steel post, 8 ft above ground. The electronic data logger is housed in a weatherproof electrical enclosure at the stream gage located on the downstream side of bridge at the intersection of Wilson Street and Joliet Road.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--April 5, 1986, to present. Periods of missing record exist because of equipment-related problems.

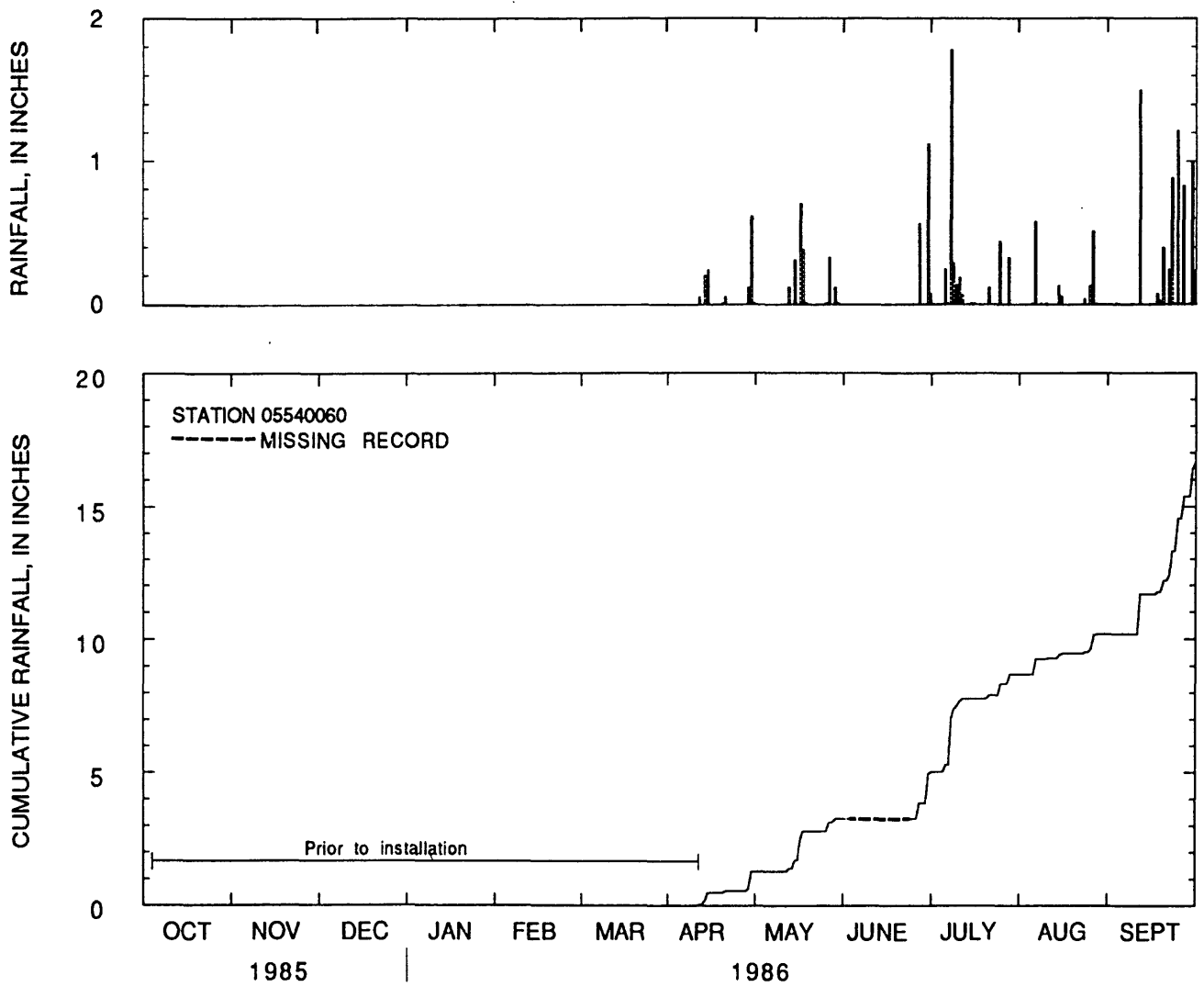


Figure 12.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1986.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1985 to September 1986
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	0.01	0.00	0.08	0.00	0.00
2	--	--	--	--	--	--	--	.00	.00	.00	.00	.00
3	--	--	--	--	--	--	--	.00	.00	.00	.00	.01
4	--	--	--	--	--	--	--	.00	m	.00	.00	.00
5	--	--	--	--	--	--	p0.00	.00	m	.00	.01	.00
6	--	--	--	--	--	--	.00	.00	m	.25	.58	.00
7	--	--	--	--	--	--	.00	.00	m	.01	.00	.00
8	--	--	--	--	--	--	.00	.00	m	1.78	.01	.00
9	--	--	--	--	--	--	.00	.00	m	.29	.00	.00
10	--	--	--	--	--	--	.00	.00	m	.14	.01	.00
11	--	--	--	--	--	--	.00	.00	m	.19	.00	1.50
12	--	--	--	--	--	--	.05	.00	m	.07	.00	.00
13	--	--	--	--	--	--	.00	.12	m	.00	.00	.00
14	--	--	--	--	--	--	.20	.00	m	.00	.13	.00
15	--	--	--	--	--	--	.24	.31	m	.01	.06	.00
16	--	--	--	--	--	--	.00	.00	m	.01	.00	.00
17	--	--	--	--	--	--	.00	.70	m	.00	.00	.08
18	--	--	--	--	--	--	.00	.38	m	.00	.00	.03
19	--	--	--	--	--	--	.00	.01	m	.00	.00	.40
20	--	--	--	--	--	--	.01	.00	m	.00	.00	.00
21	--	--	--	--	--	--	.05	.00	m	.12	.00	.25
22	--	--	--	--	--	--	.00	.00	m	.00	.00	.88
23	--	--	--	--	--	--	.00	.00	m	.00	.04	.01
24	--	--	--	--	--	--	.00	.00	m	.00	.00	1.22
25	--	--	--	--	--	--	.00	.00	p.00	.44	.13	.01
26	--	--	--	--	--	--	.00	.01	.00	.00	.51	.83
27	--	--	--	--	--	--	.00	.33	.56	.00	.01	.00
28	--	--	--	--	--	--	.00	.00	.00	.33	.00	.01
29	--	--	--	--	--	--	.12	.12	.00	.00	.00	1.00
30	--	--	--	--	--	--	.61	.01	1.12	.00	.00	.24
31	--	--	--	--	--	--	--	.00	--	.00	.00	--
Total	--	--	--	--	--	--	--	2.00	--	3.72	1.49	6.47

m Missing record.
p Partial record.

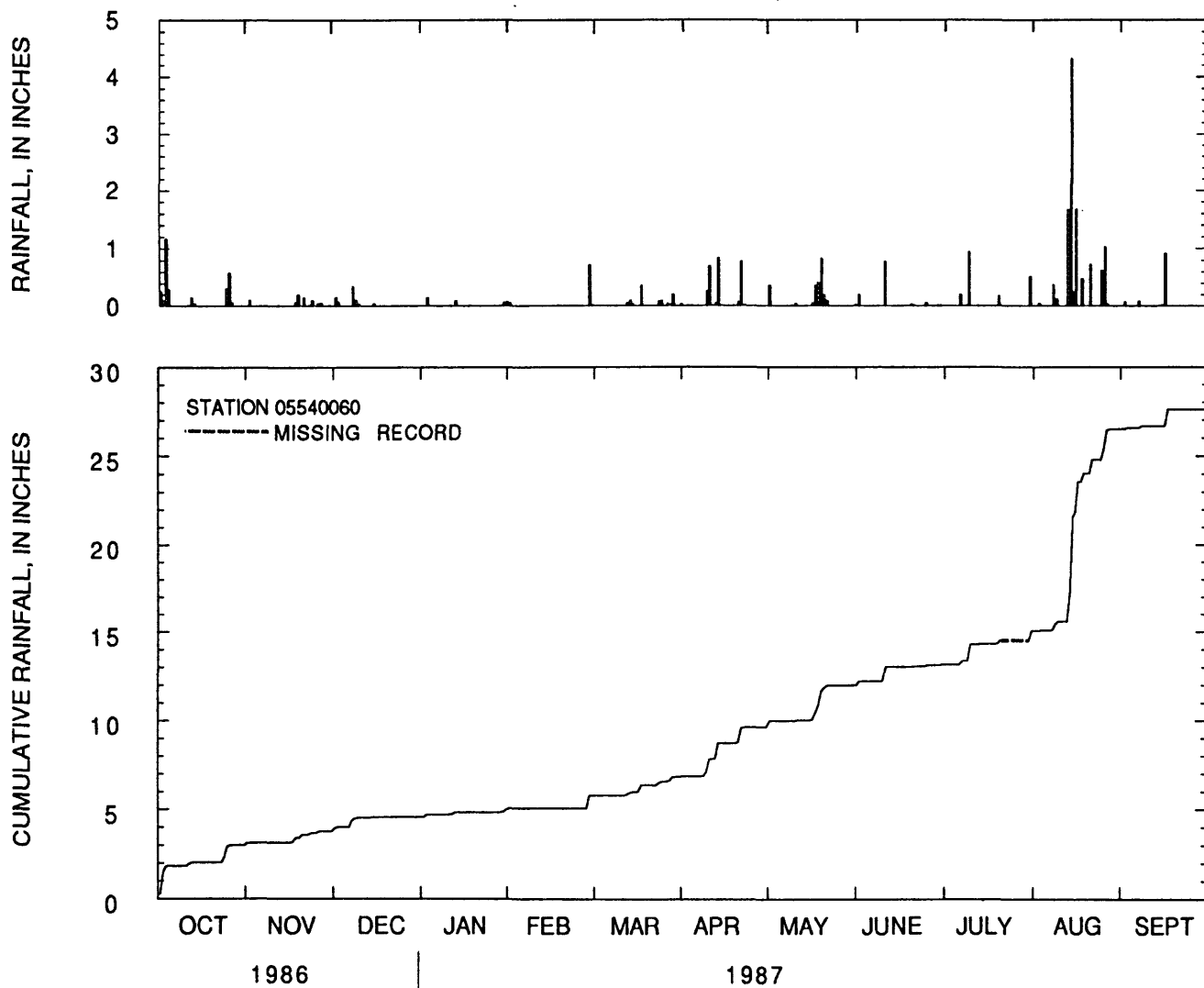


Figure 13.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1987.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1986 to September 1987
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.26	0.12	0.16	0.00	0.00	0.01	0.03	0.00	0.02	0.00	0.00	0.00
2	.10	.00	.08	s.16	.00	.00	.00	.36	.20	.00	.00	.08
3	1.17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
4	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.35	.00	.00	.00	.00	.00	.00	.21	.00	.09
8	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.38	.00
9	.00	.00	.03	.00	.00	.00	.00	.00	.00	.01	.13	.00
10	.00	.00	.00	s.01	.00	.00	.27	.01	.00	.95	.00	.00
11	.01	s.01	.00	.00	.00	.00	.70	.04	.79	.00	.00	.00
12	.15	.00	.00	s.10	.00	.00	.01	.00	.00	.00	.00	.00
13	.05	.00	.00	.00	.00	s.06	.06	.00	.00	.01	1.68	.00
14	.00	.00	.04	.00	.00	s.11	.84	.00	.00	.00	4.33	.01
15	.00	.00	.00	.00	.00	.03	.01	.00	.00	.00	.26	.02
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.69	.92
17	.00	.07	.00	s.01	.01	.00	.00	.06	.00	.00	.00	.00
18	.00	s.20	.00	.00	.00	.37	.00	.36	.00	.00	.48	.00
19	.00	.00	.00	.00	.00	.00	.00	.41	.00	.00	.00	.00
20	.00	s.15	.00	.00	.00	.00	.00	.83	.03	.19	.00	.00
21	.00	.00	.00	.00	.00	.00	.08	.21	.01	.01	.74	.00
22	.00	.01	.00	.00	.00	.00	.79	.10	.00	.00	.00	.00
23	.00	.10	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
24	.32	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00
25	.59	.04	.00	.00	.00	.10	.00	.00	.06	.00	.63	.00
26	.07	.06	.00	.00	.00	.00	.00	.00	.00	m	1.03	.00
27	.00	.00	.00	.00	.00	.04	.00	.00	.00	m	.05	.00
28	.00	.00	.00	.01	.72	.02	.00	.00	.00	m	.00	.00
29	.00	.01	.00	s.07	--	.21	.00	.00	.01	m	.00	.00
30	.00	.00	.00	.08	--	.00	.00	.00	.01	m	.00	.00
31	.00	--	.00	.06	--	.00	--	.00	--	.53	.00	--
Total	3.02	0.77	0.78	0.50	0.73	1.04	2.81	2.38	1.13	--	11.44	1.12

m Missing record.

s Snowfall-affected precipitation.

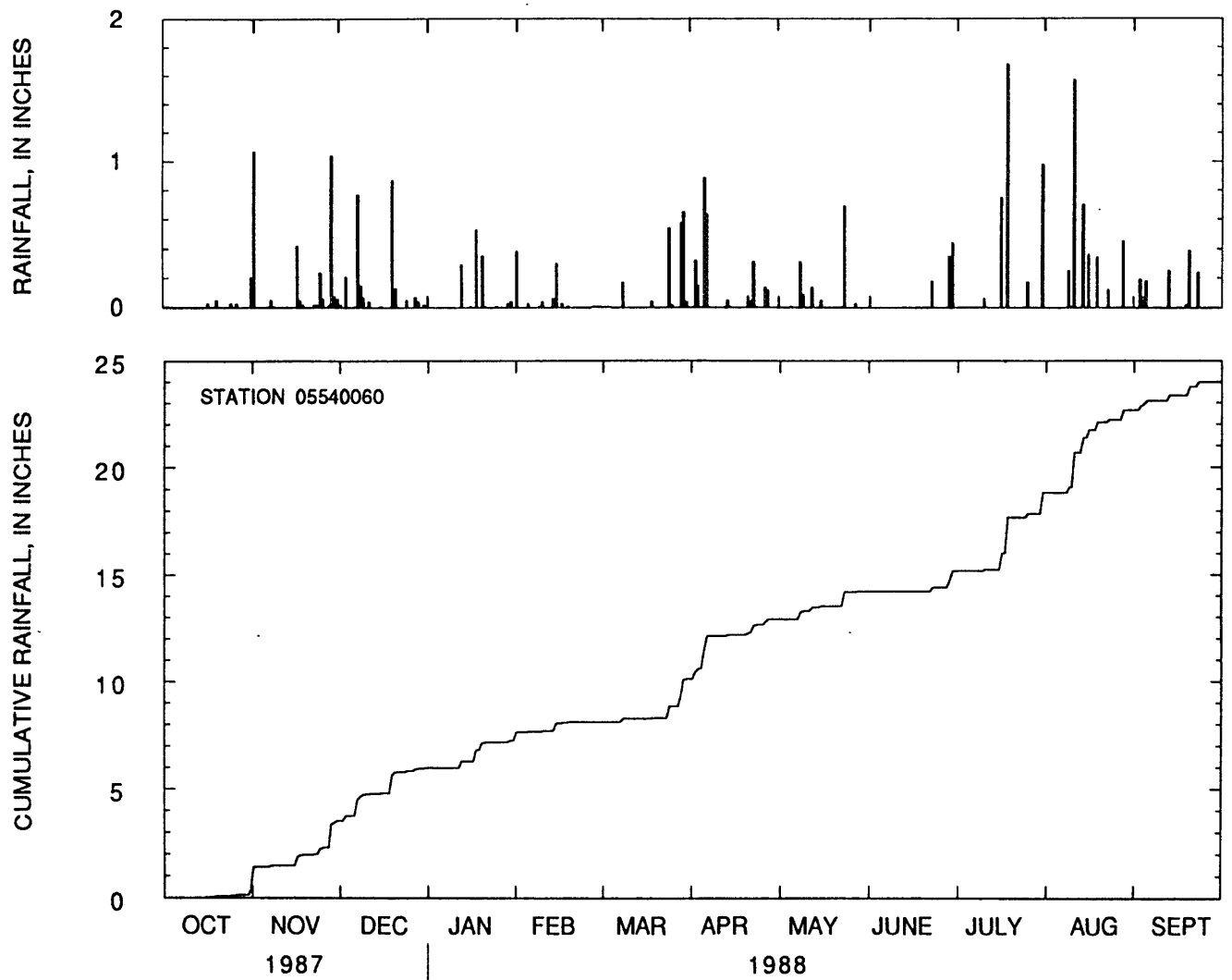


Figure 14.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1988.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1987 to September 1988
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	1.07	s0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.19
3	.00	.00	s.21	.00	.00	.00	.15	.00	.00	.00	.00	.07
4	.00	.00	.00	.00	s.03	.00	.00	.00	.00	.00	.00	.18
5	.00	.00	.00	.00	.00	.00	.89	.01	.00	.00	.00	.00
6	.00	.00	s.01	.00	.00	.00	.64	.00	.00	.00	.00	.00
7	.00	.05	s.77	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.01	s.15	.00	s.01	.17	.00	.31	.00	.00	.25	.00
9	.00	.00	s.07	.00	s.04	.00	.00	.09	.00	.00	.01	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	1.57	.00
11	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	s.29	.00	.00	.00	.14	.00	.00	.00	.25
13	.00	.00	.00	.00	s.06	.00	.05	.00	.00	.00	.70	.00
14	.00	.00	.00	.00	s.30	.00	.01	.00	.00	.00	.00	.00
15	.00	.00	s.01	s.01	.00	.00	.00	.05	.00	.00	.36	.00
16	.03	.42	.00	.00	s.03	.00	.00	.00	.00	.75	.00	.00
17	.00	.05	.00	s.53	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.02	.00	.00	s.01	s.04	.00	.00	.00	1.68	.34	.02
19	.05	.00	s.87	s.35	.00	.00	.00	.00	.00	.00	.00	.39
20	.00	.00	s.13	s.01	.00	.00	.08	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00
22	.00	.02	.00	.00	.00	.00	.31	.00	.18	.00	.12	.24
23	.00	.02	.00	.00	.00	.00	.01	.69	.00	.00	.00	.00
24	.03	.24	s.05	s.01	.00	.54	.00	.00	.00	.00	.00	.00
25	.00	.06	.00	.00	.00	.02	.00	.00	.00	.17	.00	.00
26	.03	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00
27	.00	.02	s.07	.00	.00	.00	.12	.03	.00	.00	.45	.00
28	.00	1.04	s.04	s.03	.00	.58	.00	.00	.35	.00	.00	.00
29	.00	.08	.00	s.04	.00	.65	.00	.00	.44	.00	.00	.00
30	.00	.06	s.02	.00	--	.04	.00	.00	.00	.98	.00	.00
31	.21	--	.00	s.38	--	.00	--	.00	--	.00	.00	--
Total	0.35	3.16	2.46	1.65	0.48	2.04	2.77	1.32	0.97	3.64	3.80	1.34

s Snowfall-affected precipitation.

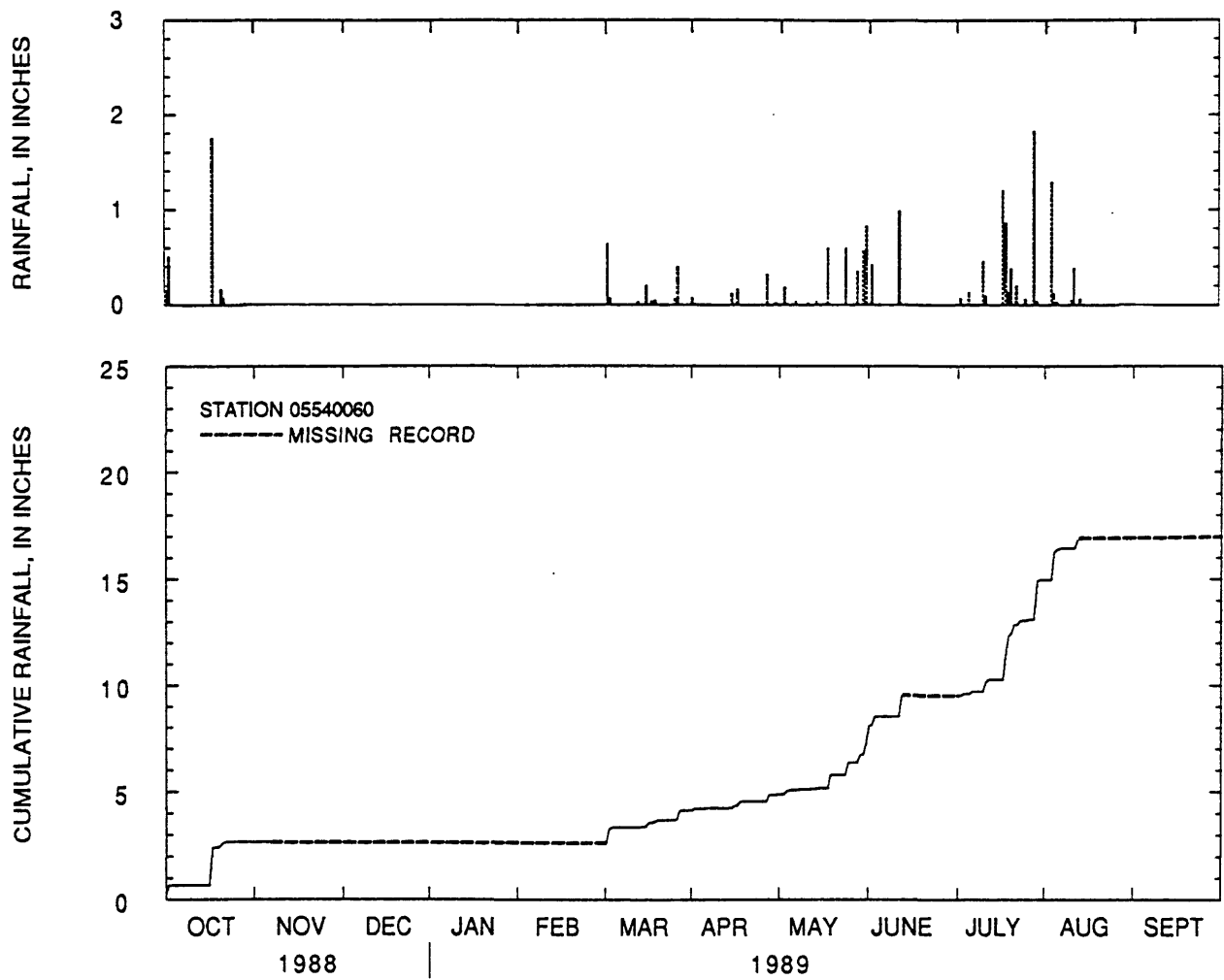


Figure 15.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1989.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.15	0.00	m	m	m	m	0.00	0.02	0.83	0.00	0.00	m
2	.51	.00	m	m	m	m	.08	.00	.01	.01	.00	m
3	.01	.00	m	m	m	0.64	.01	.00	.42	.07	.01	m
4	.00	m	m	m	m	s.07	.00	.18	.00	.00	1.29	m
5	.00	m	m	m	m	.00	.00	.01	.00	.00	.12	m
6	.00	m	m	m	m	.00	.01	.00	.00	.13	.03	m
7	.00	m	m	m	m	.00	.00	.00	.00	.00	.00	m
8	.00	m	m	m	m	.00	.01	.04	.00	.00	.00	m
9	.00	m	m	m	m	.00	.00	.00	.00	.00	.00	m
10	.00	m	m	m	m	.00	.00	.00	.00	.00	.00	m
11	.00	m	m	m	m	.00	.00	.00	.00	.46	.05	m
12	.00	m	m	m	m	.00	.00	.02	.99	.09	.39	m
13	.00	m	m	m	m	.00	.00	.00	m	.00	.00	m
14	.00	m	m	m	m	.03	.00	.00	m	.00	.06	m
15	.00	m	m	m	m	.00	.00	.04	m	.00	m	m
16	.00	m	m	m	m	.00	.12	.00	m	.00	m	m
17	1.75	m	m	m	m	.20	.01	.00	m	.00	m	m
18	.00	m	m	m	m	.00	.16	.01	m	1.20	m	m
19	.00	m	m	m	m	s.04	.00	.59	m	.86	m	m
20	.16	m	m	m	m	s.05	.00	.00	m	.13	m	m
21	.07	m	m	m	m	.00	.00	.00	m	.38	m	m
22	.00	m	m	m	m	.00	.00	.00	m	.00	m	m
23	.00	m	m	m	m	.00	.00	.00	m	.20	m	m
24	.00	m	m	m	m	.00	.00	.00	m	.00	m	m
25	.00	m	m	m	m	.00	.00	.59	m	.00	m	m
26	.00	m	m	m	m	.00	.00	.00	m	.06	m	m
27	.00	m	m	m	m	.06	.00	.00	m	.00	m	m
28	.00	m	m	m	m	.40	.32	.00	m	.00	m	m
29	.00	m	m	m	--	.00	.00	.35	p.00	1.83	m	m
30	.00	m	m	m	--	.00	.00	.00	.00	.04	m	m
31	.00	--	m	m	--	.00	--	.56	--	.00	m	m
Total	2.65	--	--	--	--	--	0.72	2.41	--	5.46	--	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

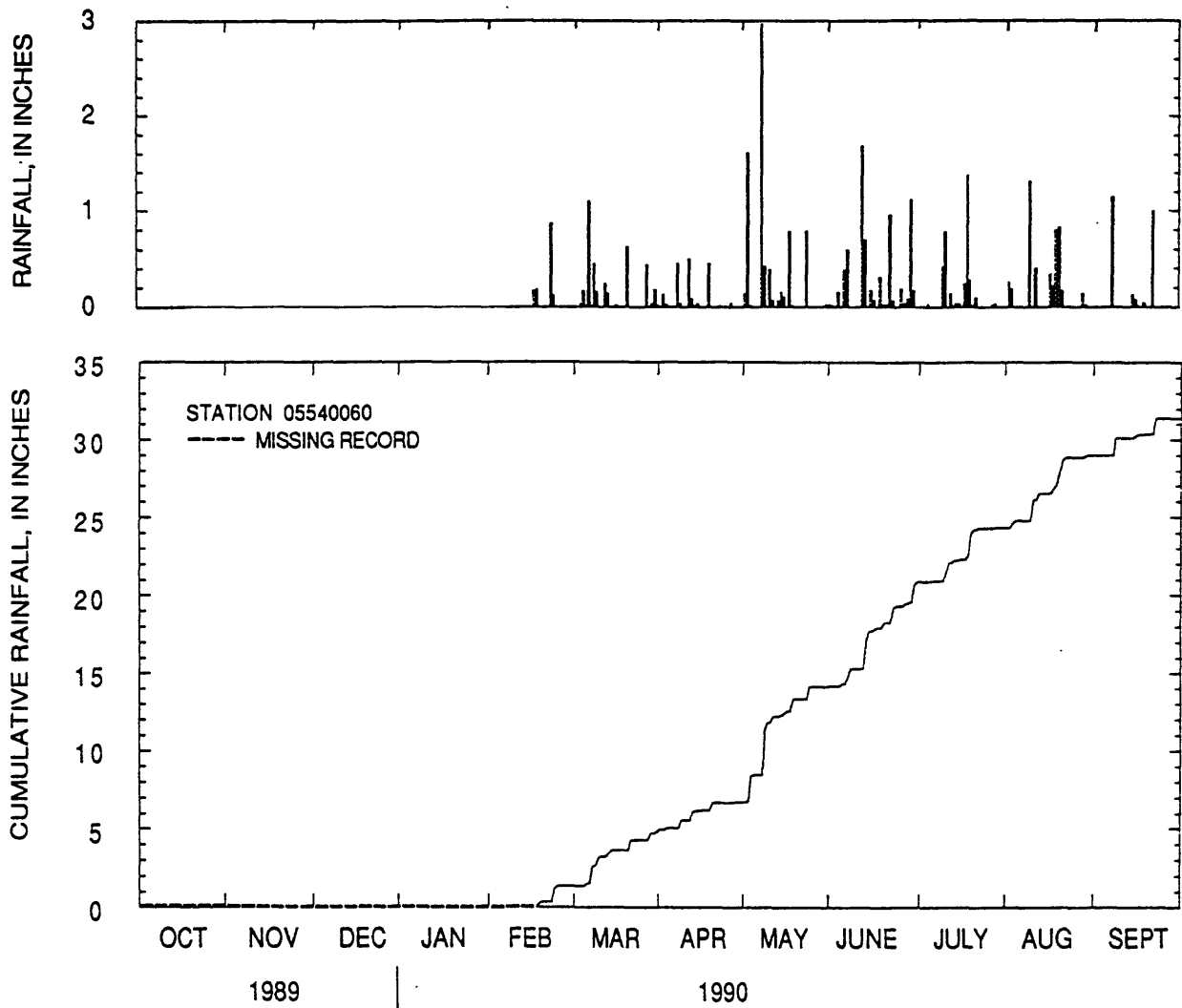


Figure 16.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1990.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.
1	m	m	m	m	m	0.00	0.18	0.00	0.02	0.00	0.00	0.00
2	m	m	m	m	m	.00	.01	.00	.02	.00	.00	.00
3	m	m	m	m	m	.00	.00	.14	.01	.00	.26	.00
4	m	m	m	m	m	.00	.13	1.61	.00	.00	.19	.00
5	m	m	m	m	m	s.03	.02	.01	.15	.03	.00	.00
6	m	m	m	m	m	s.17	.00	.00	.00	.00	.00	.00
7	m	m	m	m	m	s.01	.00	.00	.38	.00	.00	1.14
8	m	m	m	m	p.00	1.10	.00	.00	.59	.00	.00	.00
9	m	m	m	m	.00	.01	.45	2.97	.00	.00	.00	.00
10	m	m	m	m	.00	.45	.03	.42	.00	.42	1.31	.00
11	m	m	m	m	.00	.16	.00	.00	.00	.78	.00	.00
12	m	m	m	m	.00	.00	.00	.38	.00	.00	.40	.00
13	m	m	m	m	.00	.00	.50	.06	1.68	.14	.00	.00
14	m	m	m	m	.00	.24	.08	.00	.69	.01	.00	.13
15	m	m	m	m	.00	.14	.01	.06	.00	.03	.00	.07
16	m	m	m	m	s.17	.00	.03	.15	.17	.03	.00	.01
17	m	m	m	m	s.18	.00	.00	.10	.06	.00	.34	.00
18	m	m	m	m	.00	s.02	.00	.00	.00	.24	.22	.04
19	m	m	m	m	.00	.00	.00	.78	.31	1.37	.79	.00
20	m	m	m	m	.00	.00	.45	.01	.02	.28	.82	.00
21	m	m	m	m	.00	.00	.00	.00	.02	.01	.17	1.00
22	m	m	m	m	s.87	.62	.00	.00	.95	.09	.00	.00
23	m	m	m	m	s.11	.00	.00	.00	.06	.00	.00	.00
24	m	m	m	m	.00	.00	.01	.00	.00	.00	.00	.00
25	m	m	m	m	.00	.00	.00	.78	.00	.00	.00	.00
26	m	m	m	m	.00	.00	.00	.00	.19	.00	.00	.00
27	m	m	m	m	.00	.00	.00	.00	.03	.00	.00	.00
28	m	m	m	m	.00	.00	.04	.00	.08	.02	.14	.00
29	m	m	m	m	--	.44	.00	.00	1.11	.03	.02	.00
30	m	m	m	m	--	.00	.00	.00	.17	.00	.00	.00
31	m	m	m	m	--	.03	--	.00	--	.00	.00	--
Total	--	--	--	--	--	3.42	1.94	7.47	6.71	3.48	4.66	2.39

p Partial record

s Snowfall-affected precipitation.

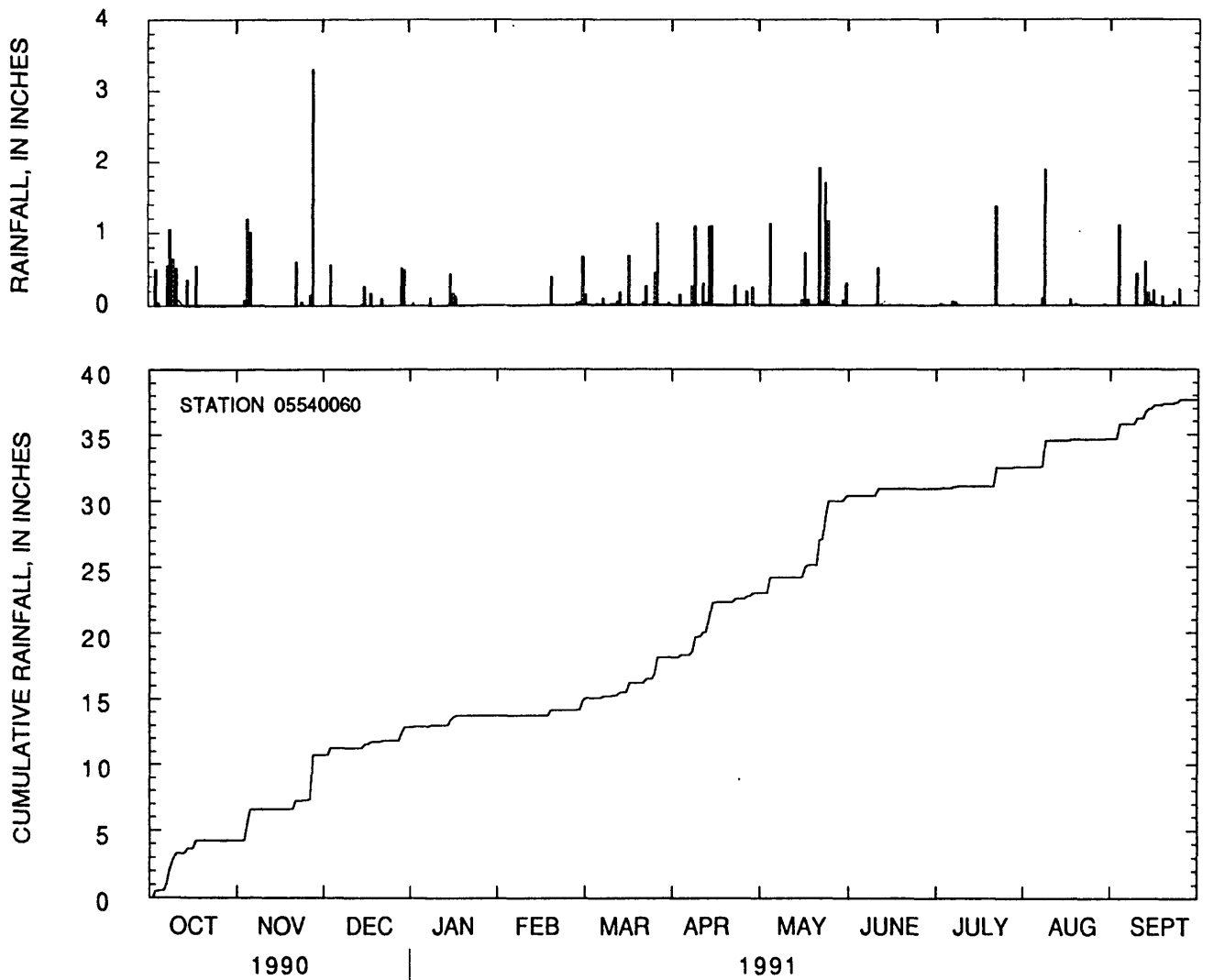


Figure 17.--Daily rainfall totals and cumulative rainfall at Kress Creek at West Chicago, Illinois, water year 1991.

05540060 Kress Creek at West Chicago, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	s0.04	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00
2	.00	.00	.01	.00	.00	.16	.00	.00	.00	.00	.01	.00
3	.50	.08	.56	.00	.00	.00	.00	.00	.00	.03	.00	1.11
4	.05	1.20	.00	.00	.00	.00	.16	.00	.00	.01	.00	.00
5	.00	1.02	.00	.00	.00	.00	.00	1.13	.00	.00	.00	.00
6	.00	.01	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
7	.55	.01	.00	s.11	.00	.00	.01	.00	.00	.06	.11	.00
8	1.05	.00	.00	.00	.00	.10	.28	.01	.00	.05	1.90	.00
9	.64	.02	.00	.00	.00	.01	1.10	.00	.00	.01	.00	.43
10	.52	.01	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00
11	.01	.00	.00	.00	.00	.03	.00	.00	.51	.00	.00	.00
12	.00	.00	.00	.00	.00	s.03	.31	.00	.00	.00	.00	.60
13	.00	.00	.00	.00	.00	s.06	.05	.02	.00	.00	.00	.19
14	.36	.00	s.03	s.43	.00	s.19	1.09	.00	.00	.00	.00	.05
15	.00	.00	.27	s.18	.00	.00	1.10	.00	.02	.00	.00	.21
16	.00	.00	.00	s.14	.00	.00	.02	.08	.00	.00	.00	.01
17	.55	.00	.18	.00	.00	.69	.00	.73	.00	.00	.09	.00
18	.01	.00	.00	.00	s.39	.03	.00	.09	.00	.00	.00	.13
19	.00	.00	.00	.00	s.01	.00	.00	.00	.00	.00	.02	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.60	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.05	.00	1.92	.00	1.37	.00	.06
23	.00	.06	.00	.00	.00	.26	.28	.08	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	1.71	.00	.00	.00	.22
25	.00	.00	.00	.00	.00	.00	.00	1.17	.00	.00	.00	.00
26	.00	.15	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00
27	.00	3.30	.00	.00	s.04	1.13	.20	.00	.00	.00	.00	.00
28	.00	.00	.51	.00	s.05	.00	.00	.00	.00	.02	.00	.00
29	.00	.00	.49	.00	--	.00	.25	.00	.00	.00	.02	.00
30	.00	.00	.00	.00	--	.00	.00	.08	.00	.00	.00	.00
31	.00	--	.00	.00	--	s.04	--	.31	--	.00	.00	--
Total	4.24	6.46	2.15	0.90	0.49	3.93	4.87	7.34	0.55	1.55	2.15	3.01

s Snowfall-affected precipitation.

West Branch Du Page River near Naperville, Illinois

Site identifier.--4

Station number.--05540130

Location.--Latitude 41°43'13", longitude 88°07'55", in SE1/4SW1/4NE1/4 sec.6, T.37 N., R.10 E., Will County, on downstream side of Washington Street bridge, on center pier, 3.5 mi southeast of Naperville (Normantown 7.5-minute quadrangle).

To reach gage.--From north: From intersection of State Highway 34 and Washington Street, drive south on Washington Street approximately 4 mi. Rain gage is mounted to the center pier on the downstream side of the bridge.

From south: From the intersection of Royce Road and Washington Street, drive north on Washington Street approximately 0.5 mi.

Drainage basin.--West Branch Du Page River.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a steel post above stream gage, which is mounted on downstream side of Washington Street bridge, on center pier. The electronic data logger is housed in a weatherproof electrical enclosure.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--May 26, 1989, to present. Periods of missing record exist because of equipment-related problems.

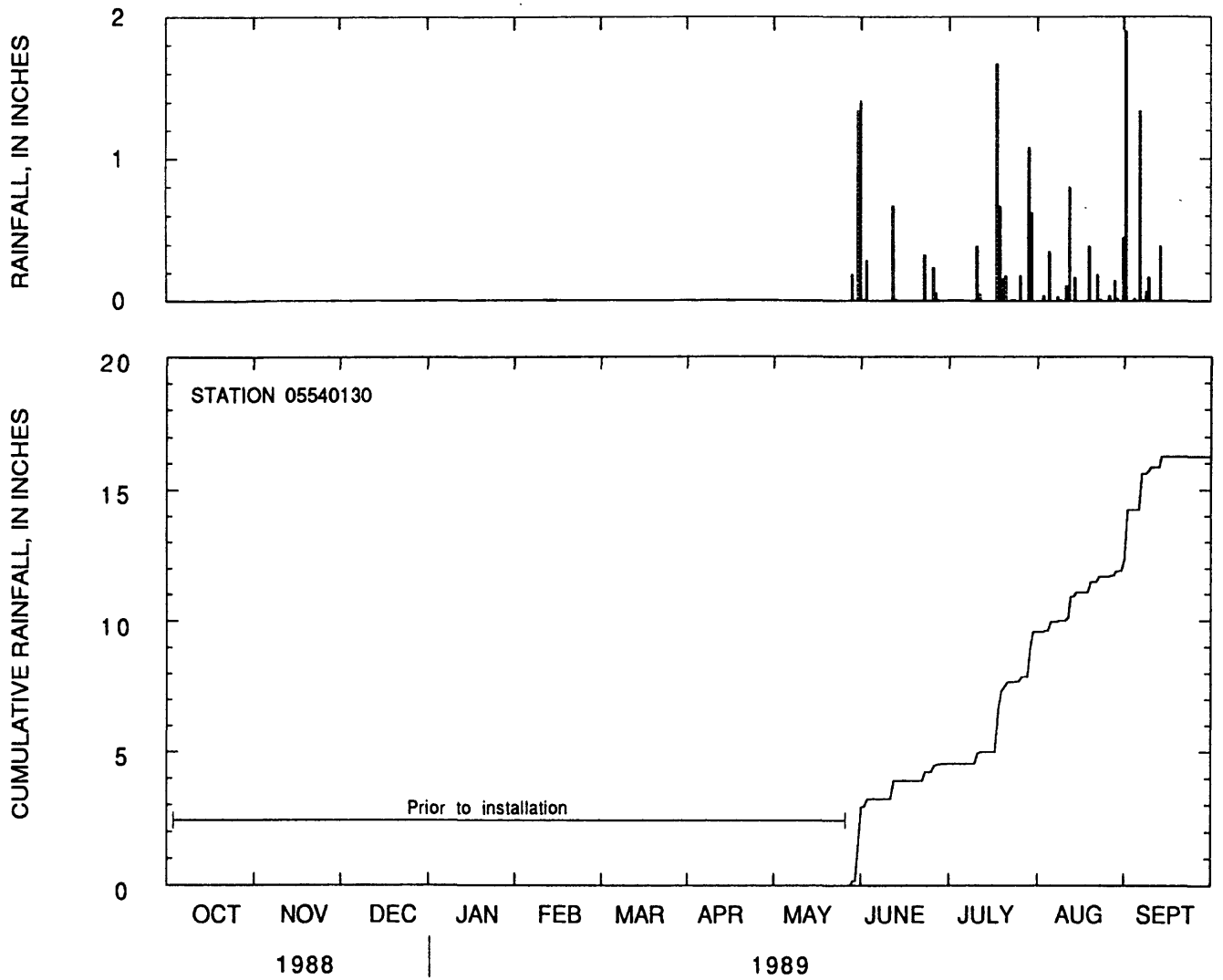


Figure 18.--Daily rainfall totals and cumulative rainfall at West Branch Du Page River near Naperville, Illinois, water year 1989.

05540130 West Branch Du Page River near Naperville, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	--	1.41	0.00	0.00	1.90
2	--	--	--	--	--	--	--	--	.01	.00	.00	.00
3	--	--	--	--	--	--	--	--	.29	.00	.04	.00
4	--	--	--	--	--	--	--	--	.00	.00	.00	.02
5	--	--	--	--	--	--	--	--	.00	.00	.35	.00
6	--	--	--	--	--	--	--	--	.00	.00	.00	1.34
7	--	--	--	--	--	--	--	--	.00	.00	.00	.01
8	--	--	--	--	--	--	--	--	.00	.00	.03	.07
9	--	--	--	--	--	--	--	--	.00	.00	.01	.17
10	--	--	--	--	--	--	--	--	.00	.00	.00	.00
11	--	--	--	--	--	--	--	--	.00	.39	.11	.00
12	--	--	--	--	--	--	--	--	.67	.05	.80	.00
13	--	--	--	--	--	--	--	--	.01	.00	.00	.39
14	--	--	--	--	--	--	--	--	.00	.00	.17	.00
15	--	--	--	--	--	--	--	--	.00	.00	.00	.00
16	--	--	--	--	--	--	--	--	.00	.00	.00	.00
17	--	--	--	--	--	--	--	--	.00	.00	.00	.00
18	--	--	--	--	--	--	--	--	.00	1.67	.00	.00
19	--	--	--	--	--	--	--	--	.00	.67	.39	.00
20	--	--	--	--	--	--	--	--	.00	.16	.00	.00
21	--	--	--	--	--	--	--	--	.00	.18	.00	.00
22	--	--	--	--	--	--	--	--	.00	.00	.19	.00
23	--	--	--	--	--	--	--	--	.33	.01	.01	.00
24	--	--	--	--	--	--	--	--	.00	.01	.00	.00
25	--	--	--	--	--	--	--	--	.00	.00	.00	.00
26	--	--	--	--	--	--	--	p0.00	.24	.18	.04	.00
27	--	--	--	--	--	--	--	.00	.06	.00	.00	.00
28	--	--	--	--	--	--	--	.00	.01	.00	.15	.00
29	--	--	--	--	--	--	--	.19	.00	1.08	.02	.00
30	--	--	--	--	--	--	--	.00	.00	.62	.00	.00
31	--	--	--	--	--	--	--	1.34	--	.00	.45	--
Total	--	--	--	--	--	--	--	--	3.03	5.02	2.76	3.90

p Partial record.

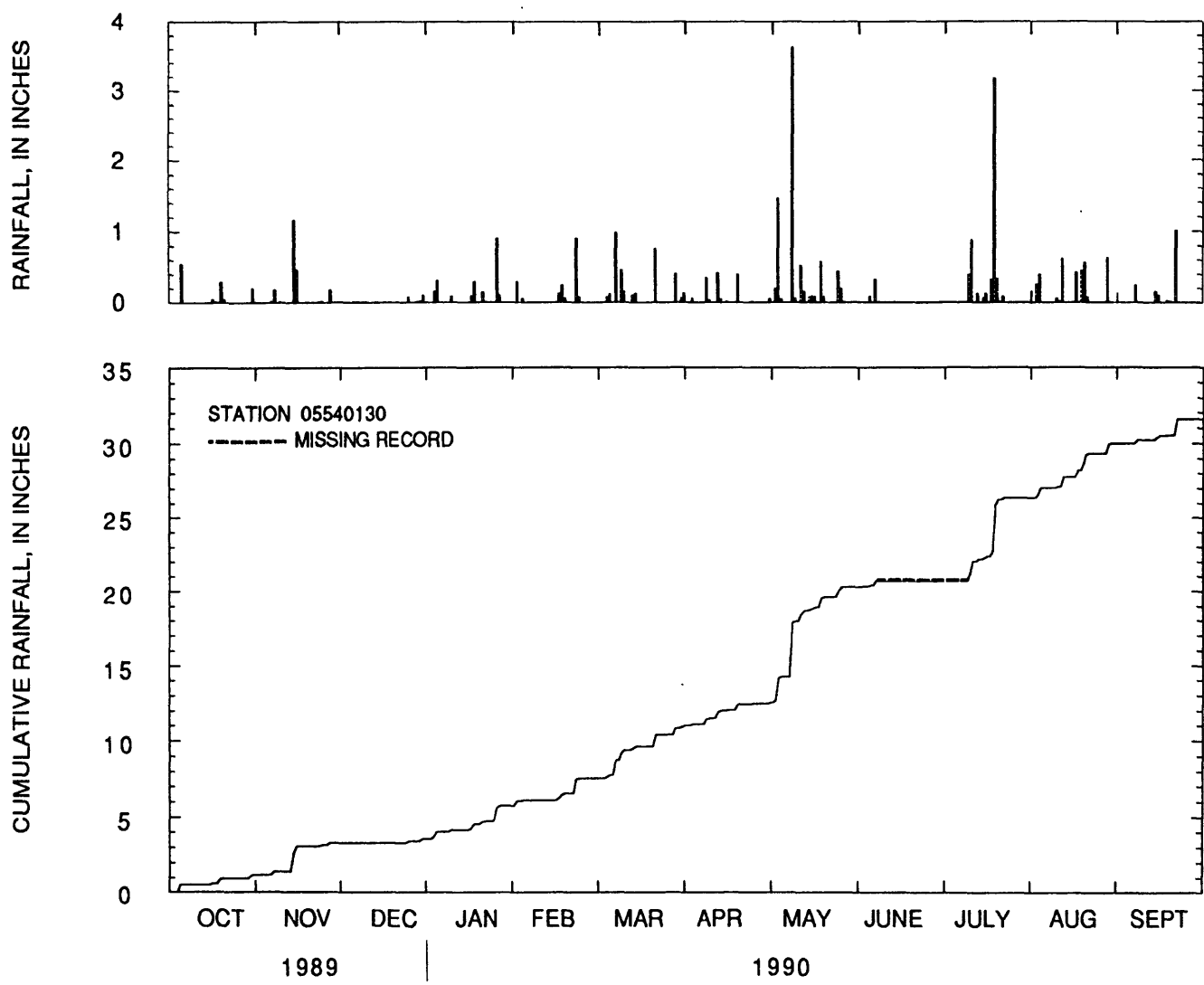


Figure 19.--Daily rainfall totals and cumulative rainfall at West Branch Du Page River near Naperville, Illinois, water year 1990.

05540130 West Branch Du Page River near Naperville, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.30	s0.00	0.13	0.06	0.00	m	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.01	.00	.01	m	.00	.00
3	.00	.00	.00	s.17	s.06	.00	.00	.21	.00	m	.27	.00
4	.00	.00	.00	s.32	.00	.00	.07	1.47	.00	m	.41	.00
5	.55	.00	.00	.00	.00	s.08	.01	.06	.09	p0.00	.00	.00
6	.00	.03	.00	.00	.00	s.12	.00	.00	.00	.00	.00	.00
7	.00	.19	.00	.00	.00	.00	.00	.00	.33	.00	.00	.25
8	.00	.00	.00	.00	.00	.99	.00	.00	m	.00	.00	.00
9	.00	.02	.00	.09	.00	.01	.36	3.64	m	.00	.00	.00
10	.00	.00	.00	.00	.00	.47	.04	.07	m	.40	.07	.00
11	.00	.00	.00	.00	.00	.17	.00	.00	m	.89	.03	.00
12	.00	.00	.00	.00	.00	.00	.00	.53	m	.00	.62	.00
13	.00	.01	.00	.00	.00	.00	.43	.17	m	.14	.00	.00
14	.00	1.17	.00	.00	.00	.11	.06	.00	m	.01	.00	.16
15	.00	.48	.00	.00	s.01	.13	.00	.08	m	.07	.00	.11
16	.05	.00	.00	.10	s.13	.00	.02	.10	m	.13	.00	.00
17	.02	.00	.00	.30	s.25	.00	.01	.09	m	.00	.44	.00
18	s.01	.00	s.01	.00	s.07	.00	.00	.00	m	.33	.00	.03
19	s.30	s.01	.00	.00	.00	.00	.00	.58	m	3.19	.46	.02
20	s.05	.00	.00	.15	.00	.00	.41	.09	m	.35	.57	.00
21	.00	.00	.00	s.02	.00	.00	.00	.00	m	.02	.08	1.02
22	.00	.00	.00	.00	s.91	.77	.00	.00	m	.09	.00	.00
23	.00	s.02	.00	s.01	s.08	.00	.00	.00	m	.00	.00	.00
24	.00	s.02	.00	.00	.00	.00	.00	.00	m	.00	.00	.00
25	.00	.00	s.08	s.91	.00	.00	.02	.45	m	.00	.00	.00
26	.00	.00	.00	s.11	.00	.00	.00	.21	m	.00	.00	.00
27	.00	.19	.00	.00	.00	.00	.00	.02	m	.00	.00	.00
28	.00	.00	s.02	.00	.00	.00	.00	.00	m	.00	.64	.00
29	.00	.00	s.03	.00	--	.42	.00	.00	m	.01	.01	.00
30	.21	.00	s.11	.00	--	.00	.00	.00	m	.00	.00	.00
31	.01	--	.01	.00	--	.07	--	.00	--	.00	.00	--
Total	1.20	2.14	0.26	2.18	1.81	3.34	1.57	7.83	--	--	3.60	1.59

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

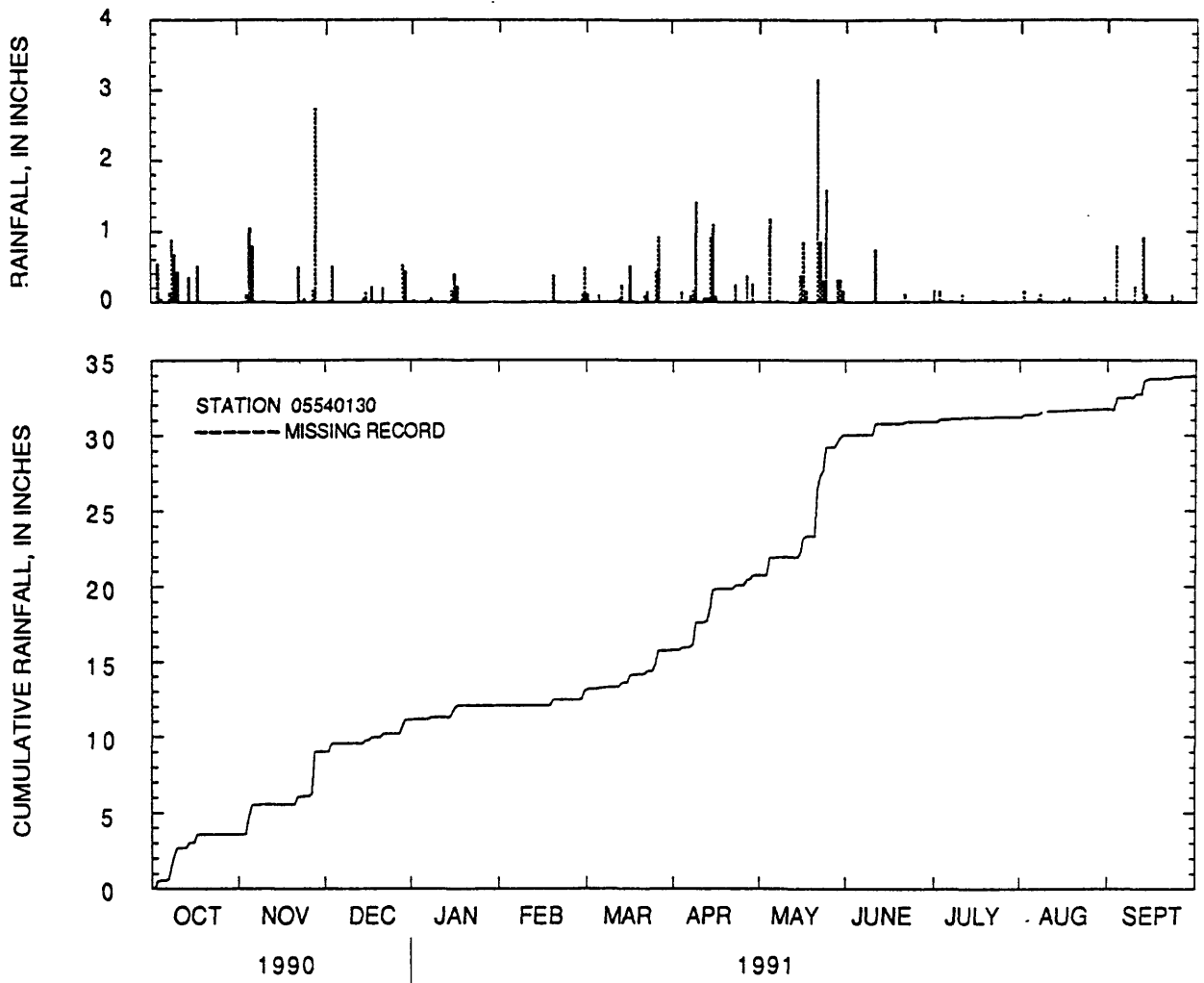


Figure 20.--Daily rainfall totals and cumulative rainfall at West Branch Du Page River near Naperville, Illinois, water year 1991.

05540130 West Branch Du Page River near Naperville, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	s0.03	0.00	0.49	0.00	0.01	0.00	0.00	0.00	0.00
2	.00	.00	.03	.00	.00	.11	.00	.00	.00	.00	.16	.00
3	.54	.11	.51	.00	.00	.00	.00	.00	.00	.15	.00	.79
4	.04	1.05	.00	s.01	.00	.00	.15	.00	.00	.02	.00	.00
5	.00	.79	.00	.00	.00	.00	.01	1.18	.00	.00	.00	.00
6	.00	.01	.00	s.02	.00	.10	.00	.00	.00	.00	.00	.00
7	.13	.00	.00	s.06	.00	.00	.09	.00	.00	.01	.04	.00
8	.89	.01	.00	.00	.01	.01	.16	.03	.00	.00	p.11	.01
9	.68	.02	.00	.00	.00	.01	1.42	.01	.00	.00	.00	.22
10	.43	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00
11	.00	.00	.00	s.01	.00	.01	.00	.00	.74	.10	.00	.00
12	.00	.00	.00	.00	.00	s.02	.06	.00	.00	.00	.00	.92
13	.00	.00	.00	.00	.00	s.06	.06	.00	.00	.00	.00	.11
14	.35	.00	s.06	s.16	.00	s.24	.92	.00	.00	.00	.00	.01
15	.00	.00	.13	s.40	.00	.00	1.10	.00	.00	.00	.00	.01
16	.00	.00	.00	s.23	.00	.00	.08	.37	.00	.00	.04	.00
17	.52	.00	.22	.00	.00	.52	.00	.85	.00	.00	.00	.00
18	.01	.00	.00	.00	s.38	.02	.00	.16	.00	.00	.07	.01
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
21	.00	.50	.20	.00	.00	.00	.00	.00	.11	.00	.00	.00
22	.00	.00	.00	.00	.00	.09	.00	3.16	.00	.03	.00	.10
23	.00	.05	.00	.00	.00	.15	.25	.85	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.02
25	.00	.00	.00	.00	.00	.00	.00	1.58	.00	.00	.00	.01
26	.00	.17	.00	.00	.00	.44	.00	.00	.00	.00	.00	.00
27	.00	2.74	.00	.00	.00	.93	.37	.00	.00	.00	.00	.00
28	.00	.00	.53	.00	s.11	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.44	.00	--	.00	.26	.32	.00	.00	.00	.00
30	.00	.00	.00	.00	--	.00	.00	.32	.00	.00	.07	.00
31	.00	--	.00	.00	--	s.01	--	.16	--	.00	.00	--
Total	3.59	5.45	2.12	0.92	0.51	3.21	4.94	9.30	0.86	0.31	--	2.21

p Partial record

s Snowfall-affected precipitation.

St. Joseph Creek at State Highway 34 at Lisle, Illinois

Site identifier.--5

Station number.--05540195

Location.--Latitude 41°48'06", longitude 88°04'08", in SE1/4SW1/4SW1/4 sec.2, T.38 N., R.10 E., Du Page County, on the left downstream wingwall of bridge on State Highway 34 (Ogden Avenue) in Lisle (Wheaton 7.5-minute quadrangle).

To reach gage.--From west: From intersection of State Highway 53 and State Highway 34 in Lisle, drive east on State Highway 34 approximately 0.4 mi. The gage is located on the north side of State Highway 34, approximately 300 ft east of Lacey Road.

Drainage basin.--St. Joseph Creek.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a steel pole, which is bolted to the side of the Tennessee shelter stream-gaging station.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--July 11, 1989, to present. Periods of missing record exist because of equipment-related problems.

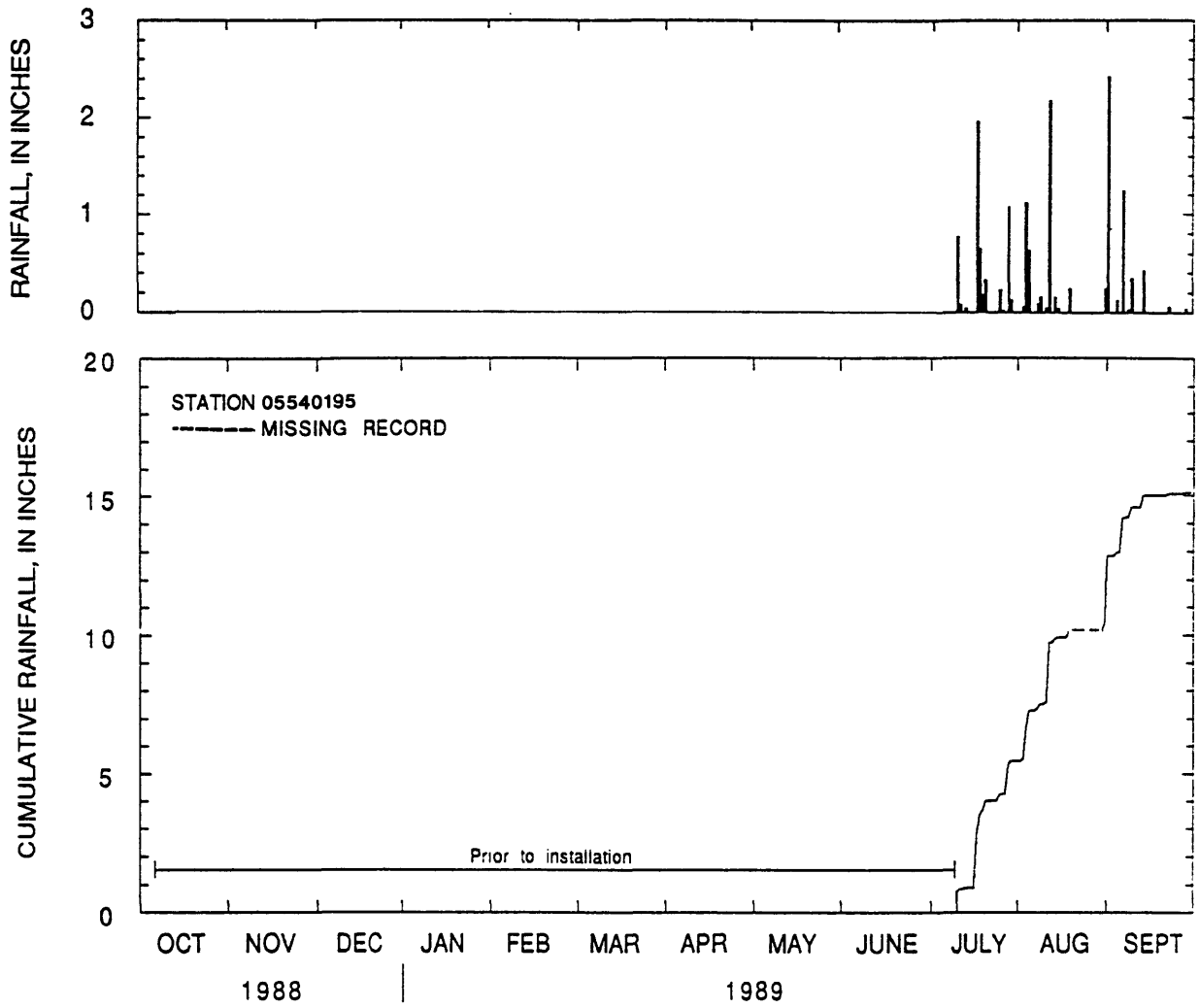


Figure 21.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at State Highway 34 at Lisle, Illinois, water year 1989.

05540195 St. Joseph Creek at State Highway 34 at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	--	--	--	0.00	2.42
2	--	--	--	--	--	--	--	--	--	--	.00	.00
3	--	--	--	--	--	--	--	--	--	--	.06	.00
4	--	--	--	--	--	--	--	--	--	--	1.12	.13
5	--	--	--	--	--	--	--	--	--	--	.63	.00
6	--	--	--	--	--	--	--	--	--	--	.00	1.24
7	--	--	--	--	--	--	--	--	--	--	.00	.00
8	--	--	--	--	--	--	--	--	--	--	.09	.03
9	--	--	--	--	--	--	--	--	--	--	.16	.35
10	--	--	--	--	--	--	--	--	--	--	.00	.00
11	--	--	--	--	--	--	--	--	--	p0.77	.05	.00
12	--	--	--	--	--	--	--	--	--	.08	2.16	.00
13	--	--	--	--	--	--	--	--	--	.00	.00	.43
14	--	--	--	--	--	--	--	--	--	.04	.16	.00
15	--	--	--	--	--	--	--	--	--	.00	.04	.00
16	--	--	--	--	--	--	--	--	--	.00	.00	.00
17	--	--	--	--	--	--	--	--	--	.00	.00	.00
18	--	--	--	--	--	--	--	--	--	1.96	.00	.00
19	--	--	--	--	--	--	--	--	--	.65	.24	.00
20	--	--	--	--	--	--	--	--	--	.18	.00	.00
21	--	--	--	--	--	--	--	--	--	.33	.00	.00
22	--	--	--	--	--	--	--	--	--	.00	m	.06
23	--	--	--	--	--	--	--	--	--	.00	m	.00
24	--	--	--	--	--	--	--	--	--	.00	m	.00
25	--	--	--	--	--	--	--	--	--	.00	m	.00
26	--	--	--	--	--	--	--	--	--	.23	m	.00
27	--	--	--	--	--	--	--	--	--	.02	m	.00
28	--	--	--	--	--	--	--	--	--	.00	m	.04
29	--	--	--	--	--	--	--	--	--	1.08	p.00	.00
30	--	--	--	--	--	--	--	--	--	.13	.00	.00
31	--	--	--	--	--	--	--	--	--	.00	.24	--
Total	--	--	--	--	--	--	--	--	--	--	--	4.70

m Missing record.
p Partial record.

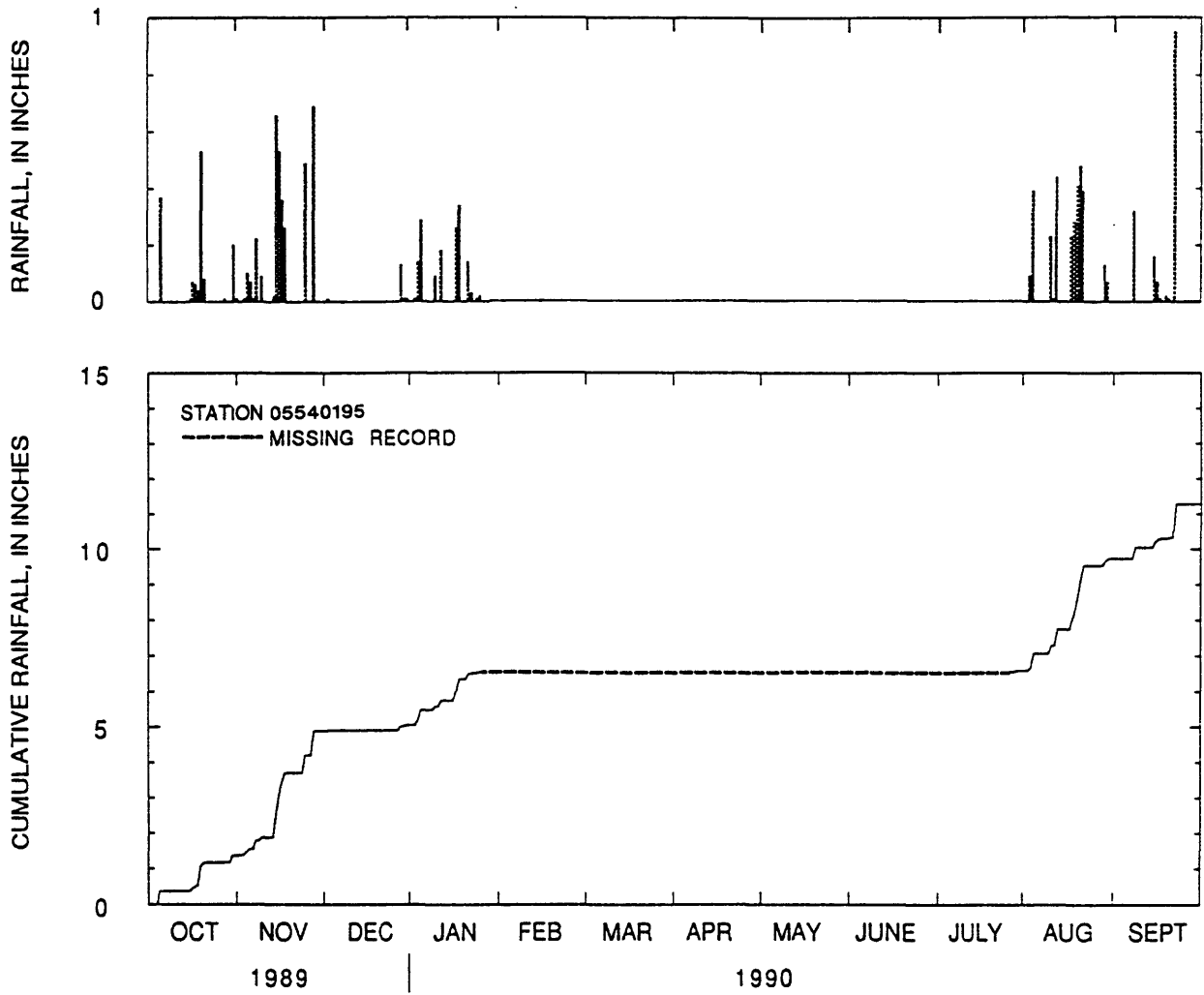


Figure 22.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at State Highway 34 at Lisle, Illinois, water year 1990.

05540195 St. Joseph Creek at State Highway 34 at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	m	m	m	m	m	m	0.00	0.00
2	.00	.00	s.01	s.01	m	m	m	m	m	m	.00	.00
3	.00	.01	.00	s.14	m	m	m	m	m	m	.09	.00
4	.00	.10	.00	s.29	m	m	m	m	m	m	.39	.00
5	.37	.07	.00	.00	m	m	m	m	m	m	.00	.00
6	.00	.01	.00	.00	m	m	m	m	m	m	.00	.00
7	.00	.22	.00	.00	m	m	m	m	m	m	.00	.32
8	.00	.00	.00	.00	m	m	m	m	m	m	.00	.00
9	.00	.09	.00	.09	m	m	m	m	m	m	.00	.00
10	.00	.00	.00	.00	m	m	m	m	m	m	.23	.00
11	.00	.00	.00	.18	m	m	m	m	m	m	.01	.00
12	.00	.00	.00	.00	m	m	m	m	m	m	.44	.00
13	.00	.02	.00	.00	m	m	m	m	m	m	.00	.00
14	.00	.66	.00	.00	m	m	m	m	m	m	.00	.16
15	.01	.53	.00	.00	m	m	m	m	m	m	.00	.07
16	.07	s.36	.00	.26	m	m	m	m	m	m	.00	.01
17	.06	s.26	.00	.34	m	m	m	m	m	m	.23	.00
18	s.04	.00	.00	.00	m	m	m	m	m	m	.28	.02
19	s.53	.00	.00	.00	m	m	m	m	m	m	.41	.01
20	s.08	.00	.00	.14	m	m	m	m	m	m	.48	.00
21	.00	.00	.00	s.03	m	m	m	m	m	m	.39	.95
22	.00	.00	.00	.00	m	m	m	m	m	m	.00	.00
23	.00	.00	.00	s.01	m	m	m	m	m	m	.00	.00
24	.00	s.49	.00	s.02	m	m	m	m	m	m	.00	.00
25	.00	.00	.00	m	m	m	m	m	m	m	.00	.00
26	.00	.00	.00	m	m	m	m	m	m	m	.00	.00
27	.01	.69	.00	m	m	m	m	m	m	0.00	.00	.00
28	.00	.00	s.13	m	m	m	m	m	m	.00	.13	.00
29	.00	.00	s.01	m	--	m	m	m	m	.03	.07	.00
30	.20	.00	s.01	m	--	m	m	m	m	.00	.00	.00
31	.01	--	.00	m	--	m	--	m	--	.00	.00	--
Total	1.38	3.51	0.16	--	--	--	--	--	--	--	3.15	1.54

m Missing record.

s Snowfall-affected precipitation.

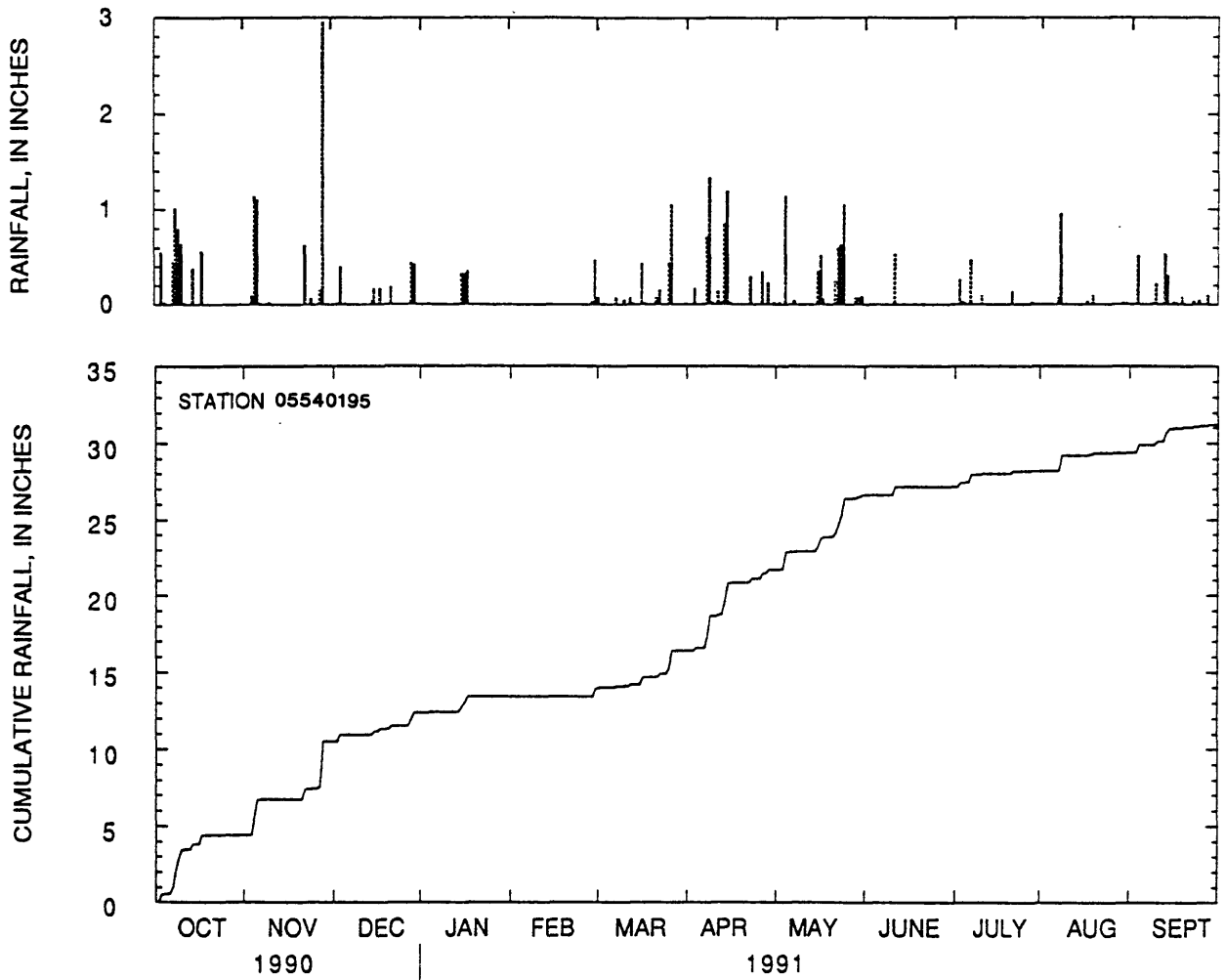


Figure 23.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at State Highway 34 at Lisle, Illinois, water year 1991.

05540195 St. Joseph Creek at State Highway 34 at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0.00	0.00	0.00	0.00	0.00	0.47	0.01	0.02	0.00	0.00	0.00	0.00
2	.00	.00	.01	.00	.00	.08	.00	.00	.00	.00	.00	.00
3	.55	.09	.40	s.01	.00	.00	.00	.02	.00	.26	.00	.51
4	.02	1.14	.00	.00	.00	.01	.17	.00	.00	.03	.00	.00
5	.00	1.10	.01	.00	.00	.00	.00	1.14	.00	.01	.00	.00
6	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.45	.00	.00	.00	.00	.00	.01	.00	.00	.47	.07	.00
8	1.01	.00	.00	.00	.00	.08	.71	.04	.00	.00	.97	.01
9	.79	.02	.00	.00	.00	.00	1.33	.00	.00	.00	.00	.22
10	.64	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
11	.01	.00	.00	.00	.00	.05	.00	.00	.53	.09	.00	.00
12	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.53
13	.00	.00	.00	.00	.00	s.08	.02	.00	.00	.00	.00	.30
14	.38	.00	s.04	s.33	.00	s.01	.84	.00	.00	.00	.00	.00
15	.00	.00	.17	s.33	.00	.00	1.19	.00	.00	.00	.00	.02
16	.00	.00	.00	s.36	.00	.00	.02	.35	.00	.00	.00	.01
17	.56	.00	.17	.00	.00	.44	.00	.52	.00	.00	.03	.00
18	.00	.00	.00	.00	.00	.01	.00	.06	.00	.00	.00	.08
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.62	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.08	.00	.25	.00	.14	.00	.03
23	.00	.06	.00	.00	.00	.15	.29	.60	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.63	.00	.00	.00	.04
25	.00	.00	.00	.00	.00	.00	.00	1.05	.00	.00	.00	.00
26	.00	.15	.00	.00	.00	.44	.00	.00	.00	.00	.00	.00
27	.00	2.95	.00	.00	.00	1.04	.34	.00	.00	.00	.00	.09
28	.00	.00	.44	.00	s.03	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.42	.00	--	.00	.23	.07	.00	.02	.02	.00
30	.00	.00	.00	.00	--	.00	.00	.08	.00	.00	.01	.00
31	.00	--	.00	.00	--	.00	--	.09	--	.00	.00	--
Total	4.41	6.14	1.85	1.03	0.03	2.94	5.32	4.92	0.53	1.02	1.20	1.84

s Snowfall-affected precipitation.

St. Joseph Creek at Lisle, Illinois

Site identifier--6

Station number--05540200

Location--Latitude 41°48'09", longitude 88°04'40", in NE1/4SW1/4SE1/4 sec.3, T.38 N., R.10 E., approximately 100 ft west of State Highway 53 bridge at Lisle (Wheaton 7.5-minute quadrangle).

To reach gage--From south: From intersection of Ogden Avenue and State Highway 53, drive north on State Highway 53 approximately 700 ft. Rain gage is approximately 100 ft west of bridge.

From north: From intersection of U.S. Highway 88 and State Highway 53, drive south approximately 0.5 mi.

Drainage basin--St. Joseph Creek.

Gage--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a steel post, approximately 10 ft above the ground. The electronic data logger is housed in a weatherproof electrical enclosure at the stream-gage site, located on the downstream side of bridge.

Accuracy--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record--June 26, 1986, to November 21, 1990. Periods of missing record exist because of equipment-related problems.

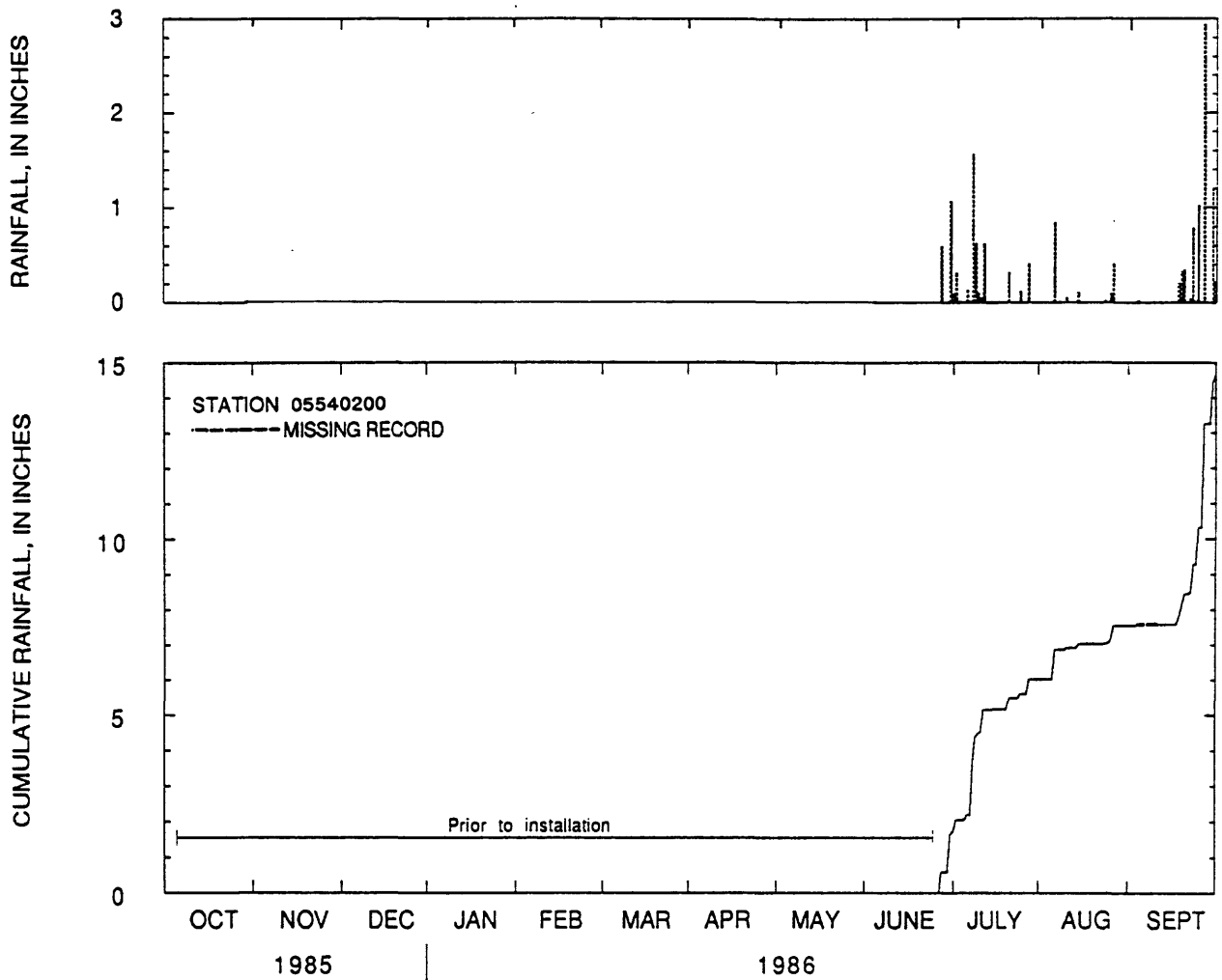


Figure 24.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1986.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1985 to September 1986
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	--	--	0.09	0.00	0.00
2	--	--	--	--	--	--	--	--	--	.31	.00	.00
3	--	--	--	--	--	--	--	--	--	.01	.00	.02
4	--	--	--	--	--	--	--	--	--	.00	.00	.00
5	--	--	--	--	--	--	--	--	--	.00	.01	.00
6	--	--	--	--	--	--	--	--	--	.13	.84	.00
7	--	--	--	--	--	--	--	--	--	.01	.00	.00
8	--	--	--	--	--	--	--	--	--	1.56	.01	.00
9	--	--	--	--	--	--	--	--	--	.62	.00	.00
10	--	--	--	--	--	--	--	--	--	.10	.05	.00
11	--	--	--	--	--	--	--	--	--	.05	.00	m
12	--	--	--	--	--	--	--	--	--	.62	.00	m
13	--	--	--	--	--	--	--	--	--	.00	.00	.00
14	--	--	--	--	--	--	--	--	--	.00	.11	.00
15	--	--	--	--	--	--	--	--	--	.01	.00	.00
16	--	--	--	--	--	--	--	--	--	.00	.00	.00
17	--	--	--	--	--	--	--	--	--	.00	.00	.20
18	--	--	--	--	--	--	--	--	--	.00	.00	.33
19	--	--	--	--	--	--	--	--	--	.00	.00	.34
20	--	--	--	--	--	--	--	--	--	.00	.00	.00
21	--	--	--	--	--	--	--	--	--	.32	.00	.04
22	--	--	--	--	--	--	--	--	--	.00	.00	.79
23	--	--	--	--	--	--	--	--	--	.00	.02	.01
24	--	--	--	--	--	--	--	--	--	.00	.00	1.02
25	--	--	--	--	--	--	--	--	--	.12	.10	.00
26	--	--	--	--	--	--	--	--	p0.00	.00	.41	2.94
27	--	--	--	--	--	--	--	--	.59	.00	.00	.00
28	--	--	--	--	--	--	--	--	.00	.41	.00	.00
29	--	--	--	--	--	--	--	--	.00	.00	.00	1.20
30	--	--	--	--	--	--	--	--	1.07	.00	.00	.22
31	--	--	--	--	--	--	--	--	--	.00	.00	--
Total	--	--	--	--	--	--	--	--	--	4.36	1.55	--

m Missing record.

p Partial record.

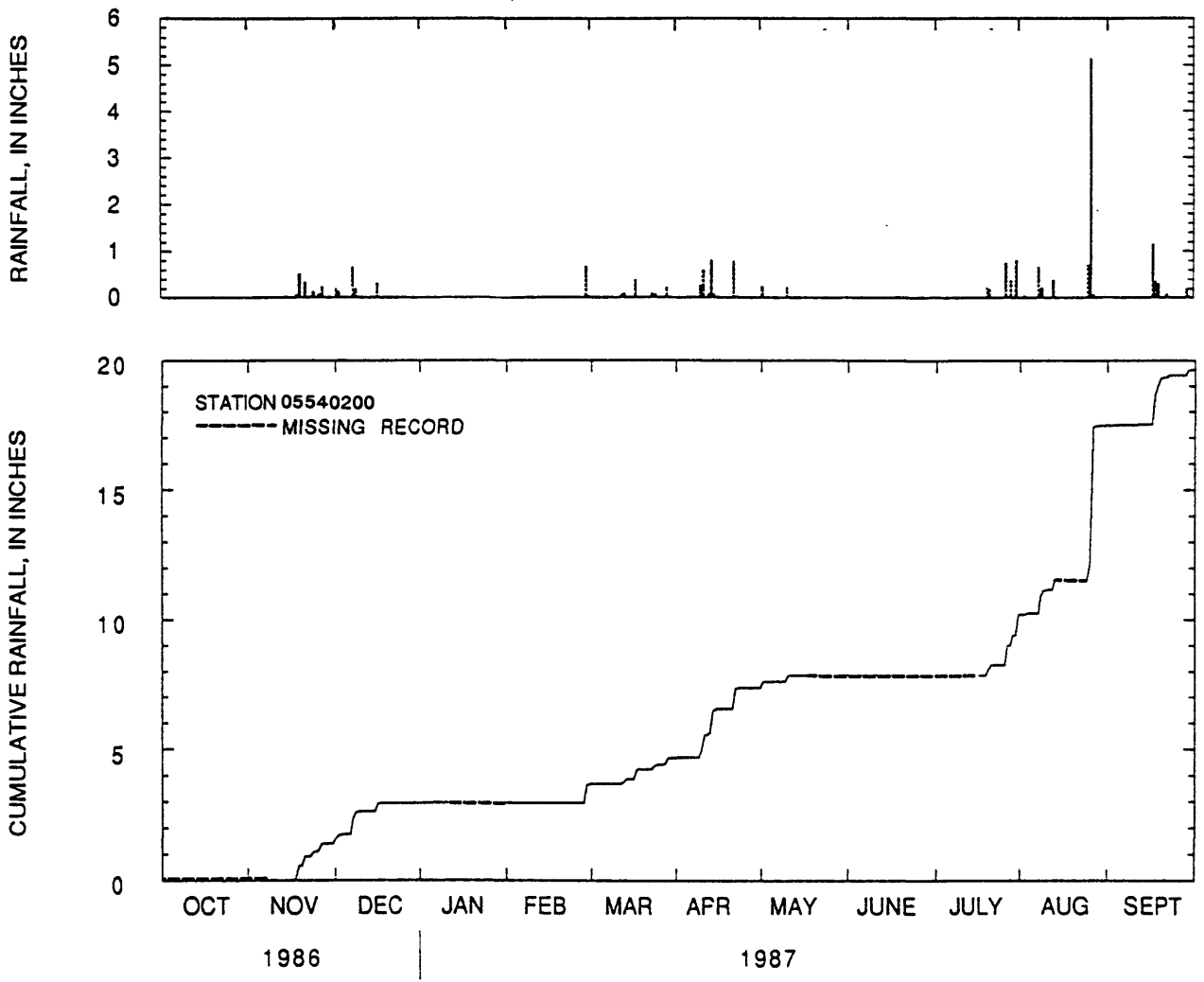


Figure 25.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1987.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1986 to September 1987
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	0.21	0.00	0.00	0.04	0.02	0.00	m	m	0.00	0.00
2	m	m	.13	s.03	.00	.00	.00	.24	m	m	.00	.01
3	m	m	.01	.00	.00	.00	.00	.01	m	m	.05	.01
4	m	m	.00	.00	.00	.00	.00	.00	m	m	.00	.00
5	m	m	.00	.00	.00	.00	.00	.00	m	m	.00	.00
6	m	m	.00	.00	.00	.00	.00	.00	m	m	.00	.00
7	m	m	.66	.00	.00	.00	.00	.00	m	m	.00	.00
8	m	p0.00	.18	.00	.00	.00	.00	.00	m	m	.66	.00
9	m	.00	.03	m	.00	.00	.00	.00	m	m	.23	.00
10	m	.00	.00	m	.00	.00	.27	.00	m	m	.01	.02
11	m	.00	.00	m	.00	.00	.60	.23	m	m	.00	.01
12	m	.00	.00	m	.00	.00	.01	.00	m	m	.00	.00
13	m	.00	.00	m	.00	s.07	.09	.00	m	m	.38	.00
14	m	.00	.00	m	.01	s.10	.81	.00	m	m	m	.00
15	m	.00	.00	m	.00	.00	.08	.00	m	m	m	.00
16	m	.00	.31	m	.00	.00	.00	.00	m	m	m	1.15
17	m	.06	.00	m	.00	.00	.00	m	m	0.00	m	.35
18	m	s.51	.00	m	.00	.39	.00	m	m	.00	m	.30
19	m	.00	.00	m	.00	.00	.00	m	m	.00	m	.01
20	m	s.34	.00	m	.00	.00	.00	m	m	.22	m	.01
21	m	.00	.00	m	.00	.00	.00	m	m	.18	p.00	.08
22	m	.03	.00	m	.00	.00	.79	m	m	.00	.00	.00
23	m	.14	.00	m	.00	.00	.03	m	m	.00	.00	.00
24	m	.00	.00	m	.00	.10	.00	m	m	.00	.00	.00
25	m	.08	.00	m	.00	.07	.00	m	m	.00	.70	.00
26	m	.24	.00	m	.00	.00	.00	m	m	.00	5.14	.00
27	m	.00	.00	m	.00	.02	.00	m	m	.75	.06	.01
28	m	.00	.00	m	.68	.01	.00	m	m	.03	.02	.18
29	m	.00	.00	m	--	.23	.00	m	m	.37	.00	.04
30	m	.00	.00	m	--	.00	.00	m	m	.00	.00	.00
31	m	--	--	m	--	.00	--	m	m	.81	.00	--
Total	--	--	1.53	--	0.69	1.03	2.70	--	--	--	--	2.18

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

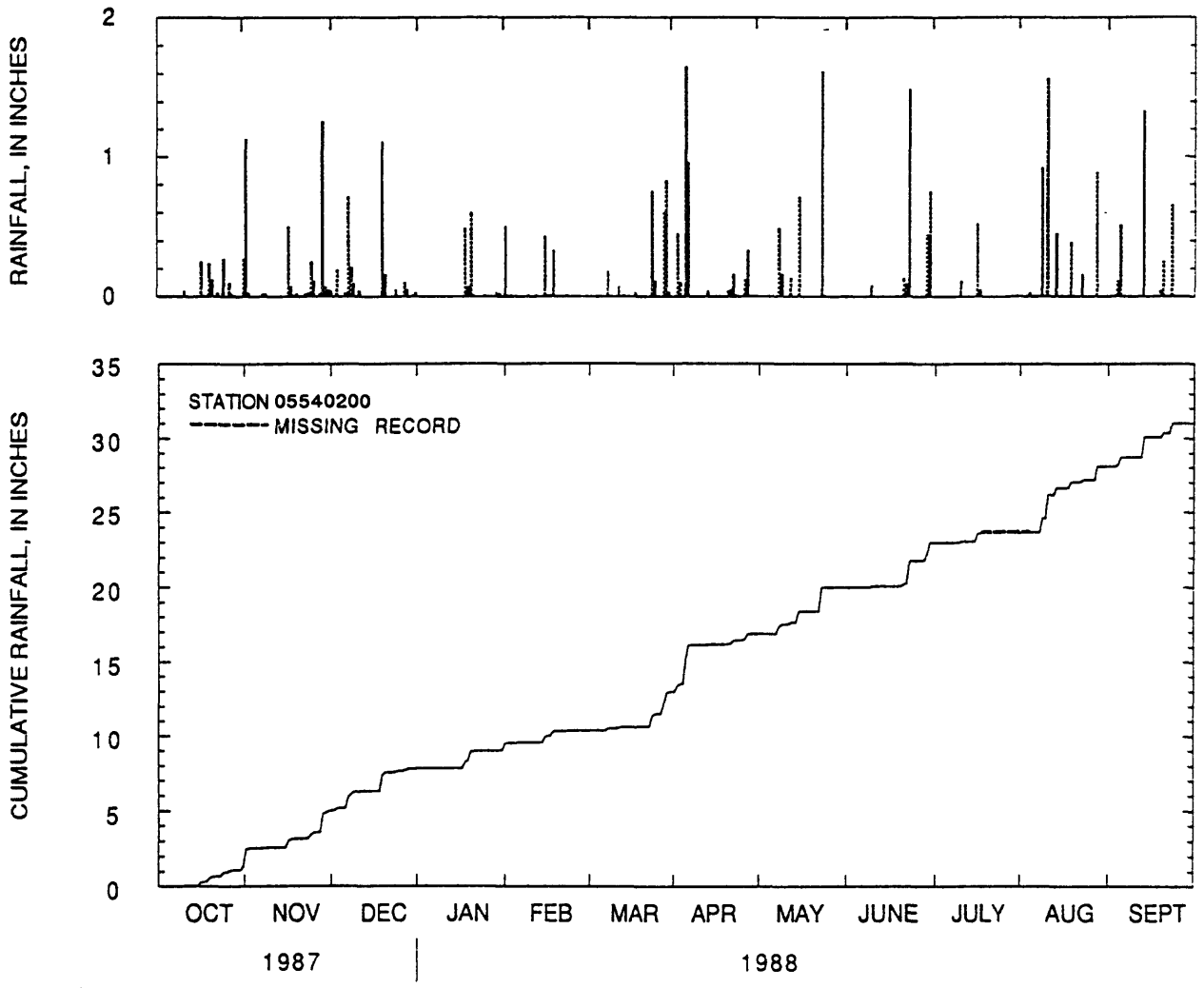


Figure 26.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1988.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1987 to September 1988
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	1.13	s0.04	0.00	s0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.03	.00	.00	s.01	.00	.45	.00	.00	.00	.00	.01
3	.00	.00	s.19	.00	.00	.00	.10	.00	.00	.00	.00	.11
4	.00	.00	.00	.00	s.01	.00	.00	.00	.00	.00	.03	.51
5	.00	.00	.00	.00	.00	.00	1.65	.00	.00	.00	.00	.00
6	.01	.00	s.03	.00	.00	.00	.96	.00	.00	.00	.00	.00
7	.01	.02	s.72	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.02	s.21	.00	s.01	.18	.00	.49	.00	.00	.92	.00
9	.00	.00	s.09	.00	.00	.00	.00	.16	.08	.00	.01	.00
10	.04	.00	.00	.00	.00	.00	.00	.00	.00	.11	1.56	.00
11	.00	.00	.04	.00	s.01	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.07	.00	.13	.00	.00	.00	1.33
13	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.45	.00
14	.00	.00	.00	.00	s.43	s.01	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	s.01	.00	.00	.71	.00	.00	.00	.00
16	.25	.50	.00	.00	s.01	.00	.00	.00	.00	.52	.00	.00
17	.01	.07	.00	s.49	s.33	.00	.00	.00	.00	.05	.00	.00
18	.00	.01	.00	s.07	.00	s.03	.00	.00	.00	m	.39	.04
19	.24	.02	s1.11	s.60	.00	.00	.00	.00	.00	m	.01	.25
20	.12	.00	s.16	s.01	.00	.00	.04	.00	.13	m	.00	.00
21	.00	.00	.00	.00	.00	.00	.05	.00	.09	m	.00	.00
22	.03	.02	.00	.00	s.01	.00	.16	.00	1.49	m	.16	.65
23	.00	.03	.00	.00	.00	.00	.01	1.61	.00	m	.00	.01
24	.27	.25	s.05	s.01	.00	.75	.00	.01	.00	m	.00	.00
25	.00	.11	.00	.00	.00	.11	.00	.00	.00	m	.00	.00
26	.10	.00	.00	.00	.00	.00	.12	.00	.00	m	.00	.00
27	.02	.02	s.10	.00	.00	.00	.33	.00	.00	m	.89	.00
28	.01	1.26	s.05	s.03	.00	.60	.00	.00	.44	m	.00	.00
29	.00	.07	.00	s.02	.00	.83	.00	.00	.75	m	.00	.00
30	.00	.05	s.01	.00	--	.03	.00	.00	.00	m	.00	.00
31	.27	--	s.03	s.50	--	.00	--	.00	--	.00	.00	--
Total	1.38	3.61	2.83	1.73	0.84	2.61	3.91	3.11	2.98	--	4.42	2.91

m Missing record.

s Snowfall-affected precipitation.

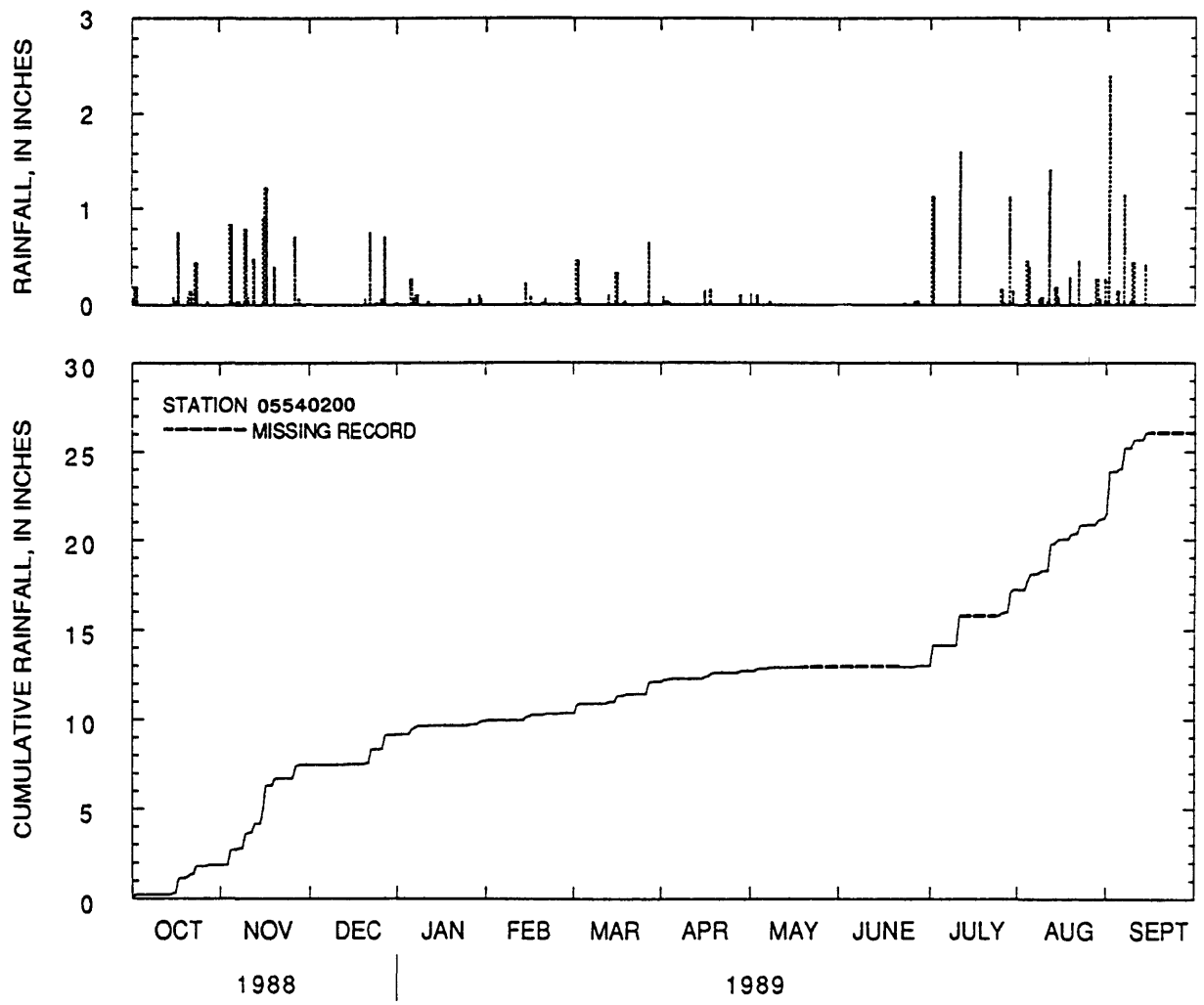


Figure 27.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1989.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	m	0.00	0.00	2.39
2	.18	.00	.00	.00	.00	.00	.10	.01	m	1.13	.00	.00
3	.00	.00	.00	.00	.00	s.45	.04	.01	m	.00	.02	.00
4	.01	.84	.00	.00	.00	s.07	.02	.11	m	.00	.47	.15
5	.00	s.02	.00	.28	.00	.00	.00	.01	m	.00	.39	.00
6	.00	s.04	.00	.08	.00	.00	.00	.00	m	.00	.01	1.16
7	.00	.04	.00	.11	.00	.00	.00	.00	m	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.04	m	.00	.08	.04
9	.00	.80	.00	.00	.00	.00	.00	.01	m	.00	.10	.43
10	.00	.09	.00	.00	.00	.00	.00	.00	m	.00	.00	.01
11	.00	.00	.00	.05	.00	.00	.00	.00	m	p1.61	.05	.00
12	.00	.48	.00	.00	.00	.00	.00	.00	m	m	1.42	.00
13	.00	.00	s.01	.00	s.23	.00	.00	.00	m	m	.00	.42
14	.00	.00	.00	.00	.00	.11	.00	.00	p0.00	m	.18	.01
15	.10	.91	.00	.00	s.09	.00	.00	.01	.00	m	.09	.00
16	.05	1.24	.00	.00	.00	.00	.15	.00	.00	m	.00	.00
17	.76	.00	.00	.00	.00	.34	.00	.00	.00	m	.00	.00
18	.00	.00	.00	.00	.00	.00	.17	.01	.00	m	.00	.00
19	.00	.39	.00	.00	s.02	s.03	.01	m	.00	m	.30	.00
20	.09	.00	.08	.00	s.07	s.05	.00	m	.00	m	.02	.00
21	.14	.00	.00	.00	.00	.00	.00	m	.00	m	.00	.00
22	.00	.00	.75	.00	.00	.00	.00	m	.00	m	.47	m
23	.44	.00	.00	.00	.00	.00	.00	m	.02	m	.01	m
24	.00	.00	.02	.00	.00	.00	.00	m	.00	m	.00	m
25	.00	.00	.00	.07	s.02	.00	.00	m	.00	p.00	.00	m
26	.00	.71	s.08	.00	.00	.00	.00	m	.04	.17	.02	m
27	.05	.06	s.72	.00	.00	.03	.00	m	.04	.02	.00	m
28	.00	s.01	.00	.11	.00	.66	.11	m	.00	.00	.27	m
29	.00	.00	.00	.08	--	.01	.00	m	.00	1.12	.06	m
30	.00	.00	.00	.00	--	.00	.00	m	.00	.15	.00	m
31	.00	--	s.02	.01	--	.00	--	m	--	.00	.28	--
Total	1.88	5.63	1.68	0.79	0.43	1.75	0.60	--	--	--	4.24	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

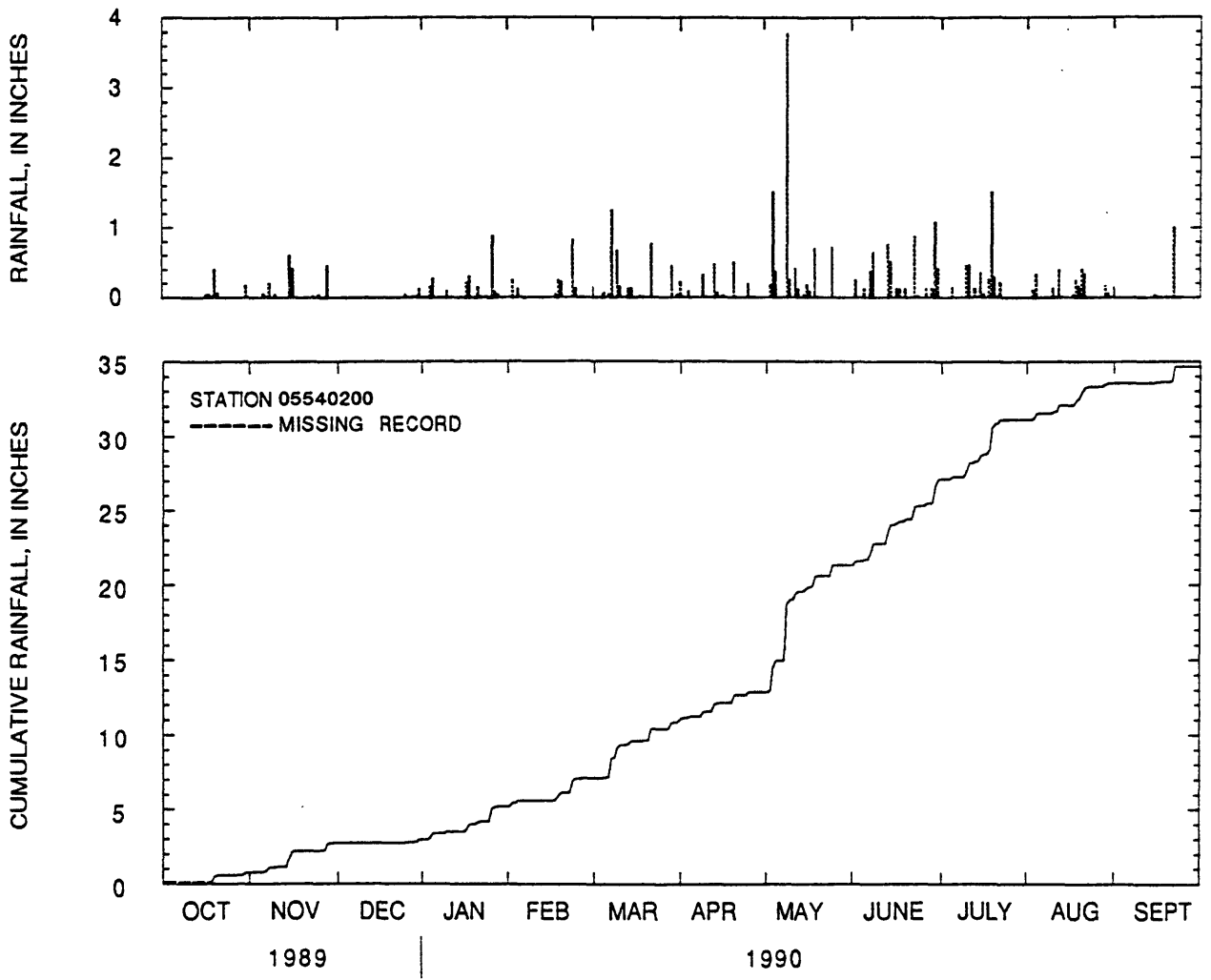


Figure 28.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1990.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	0.00	0.00	s0.01	0.25	0.00	0.23	0.00	0.00	0.00	0.00	0.00
2	m	.00	.00	.00	.00	.00	.01	.00	.26	.00	.00	.00
3	m	.01	.00	s.16	s.12	.00	.00	.19	.00	.00	.11	.00
4	m	.00	.00	s.28	.00	.00	.09	1.52	.00	.00	.33	.00
5	m	.06	.00	.00	.01	s.06	.00	.37	.13	.15	.00	.00
6	m	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	m	.21	.00	.00	.01	s.05	.00	.00	.38	.00	.00	.00
8	m	.00	.00	.00	.00	1.26	.00	.00	.65	.00	.00	.00
9	m	.05	.00	.10	.00	.00	.33	3.78	.00	.00	.00	.00
10	m	.00	.00	.00	.00	.68	.02	.26	.00	.46	.13	.00
11	m	.00	s.02	.00	.00	.16	.00	.00	.00	.48	.01	.00
12	p0.00	.00	.00	.00	.00	.01	.00	.42	.00	.00	.40	.00
13	.00	.00	.00	.00	.00	.00	.48	.12	.77	.13	.01	.00
14	.00	.61	.00	.00	.00	.13	.07	.00	.52	.02	.00	.04
15	.00	.42	.00	.00	.00	.13	.01	.04	.00	.36	.00	.02
16	.04	s.01	.00	.22	s.05	.00	.03	.19	.13	.06	.00	.01
17	.05	.00	.00	.31	s.25	.00	.00	.09	.12	.00	.04	.00
18	s.02	.00	.00	.00	s.23	s.02	.00	.00	.00	.27	.25	.02
19	s.41	.00	.00	.00	.00	s.01	.00	.71	.14	1.52	.17	.01
20	s.07	.00	.00	.15	.00	.00	.51	.01	.00	.30	.41	.01
21	.00	.00	.00	s.02	.00	.00	.00	.00	.00	.02	.34	1.01
22	.00	s.02	.00	.00	s.83	.78	.00	.00	.88	.22	.01	.00
23	.00	.00	.00	s.02	s.13	.00	.00	.00	.03	.00	.00	.00
24	.00	s.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	s.05	s.89	s.01	.00	.20	.73	.00	.00	.00	.00
26	.00	.00	s.01	s.08	.00	.00	.01	.00	.13	.00	.00	.00
27	.00	.46	.00	s.04	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	s.02	.00	.00	.00	.00	.00	.13	.00	.17	.00
29	.00	.01	s.02	.00	--	.46	.00	.00	1.09	.01	.07	.00
30	.18	.00	s.12	.00	--	.00	.00	.00	.42	.00	.00	.00
31	.01	--	.00	.00	--	.04	--	.00	--	.00	.00	--
Total	--	1.93	0.24	2.28	1.89	3.79	1.99	8.43	5.78	4.00	2.45	1.12

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

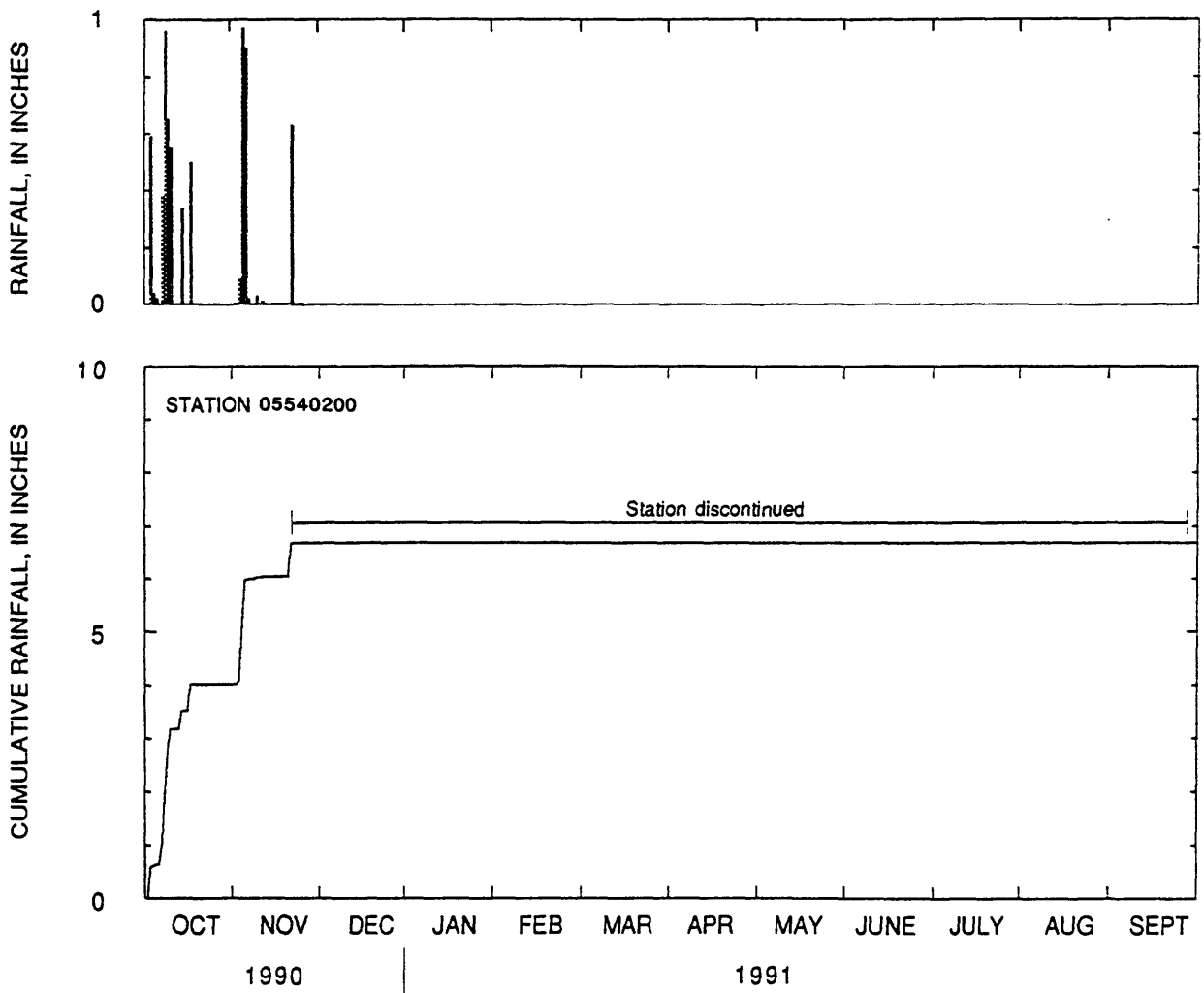


Figure 29.--Daily rainfall totals and cumulative rainfall at St. Joseph Creek at Lisle, Illinois, water year 1991.

05540200 St. Joseph Creek at Lisle, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	--	--	--	--	--	--	--	--	--	--
2	.00	.00	--	--	--	--	--	--	--	--	--	--
3	.59	.09	--	--	--	--	--	--	--	--	--	--
4	.04	.97	--	--	--	--	--	--	--	--	--	--
5	.02	.90	--	--	--	--	--	--	--	--	--	--
6	.00	.02	--	--	--	--	--	--	--	--	--	--
7	.38	.00	--	--	--	--	--	--	--	--	--	--
8	.96	.00	--	--	--	--	--	--	--	--	--	--
9	.65	.03	--	--	--	--	--	--	--	--	--	--
10	.55	.00	--	--	--	--	--	--	--	--	--	--
11	.00	.01	--	--	--	--	--	--	--	--	--	--
12	.00	.00	--	--	--	--	--	--	--	--	--	--
13	.00	.00	--	--	--	--	--	--	--	--	--	--
14	.34	.00	--	--	--	--	--	--	--	--	--	--
15	.00	.00	--	--	--	--	--	--	--	--	--	--
16	.00	.00	--	--	--	--	--	--	--	--	--	--
17	.50	.00	--	--	--	--	--	--	--	--	--	--
18	.00	.00	--	--	--	--	--	--	--	--	--	--
19	.00	.00	--	--	--	--	--	--	--	--	--	--
20	.00	.00	--	--	--	--	--	--	--	--	--	--
21	.00	p.63	--	--	--	--	--	--	--	--	--	--
22	.00	--	--	--	--	--	--	--	--	--	--	--
23	.00	--	--	--	--	--	--	--	--	--	--	--
24	.00	--	--	--	--	--	--	--	--	--	--	--
25	.00	--	--	--	--	--	--	--	--	--	--	--
26	.00	--	--	--	--	--	--	--	--	--	--	--
27	.00	--	--	--	--	--	--	--	--	--	--	--
28	.00	--	--	--	--	--	--	--	--	--	--	--
29	.00	--	--	--	--	--	--	--	--	--	--	--
30	.00	--	--	--	--	--	--	--	--	--	--	--
31	.00	--	--	--	--	--	--	--	--	--	--	--
Total	4.03	--	--	--	--	--	--	--	--	--	--	--

p Partial record.

East Branch Du Page River at Bolingbrook, Illinois

Site identifier.--7

Station number.--05540250

Location.--Latitude 41°43'05", longitude 88°04'14", in SE1/4NE1/4SE1/4 sec.3, T.37 N., R.10 E., Will County, on center pier of downstream side of bridge on Royce Road, 0.5 mi north of Bolingbrook, and 4.8 mi northwest of Lemont (Romeoville 7.5- minute quadrangle).

To reach gage.--From north: From the intersection of State Highway 53 and State Highway 34, drive south on State Highway 53 approximately 6 mi to Royce Road. Turn west on Royce Road approximately 0.2 mi to gage.

From south: From the intersection of Interstate 55 and State Highway 53, drive approximately 2 mi north on State Highway 53 to Royce Road. Turn west on Royce Road, approximately 0.2 mi to gage.

Drainage basin.--East Branch Du Page River.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a steel post above stream gage, which is mounted on center pier of downstream side of bridge on Royce Road. The electronic data logger is housed in a weatherproof electrical enclosure within the stream-gage shelter.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--May 30, 1989, to present.

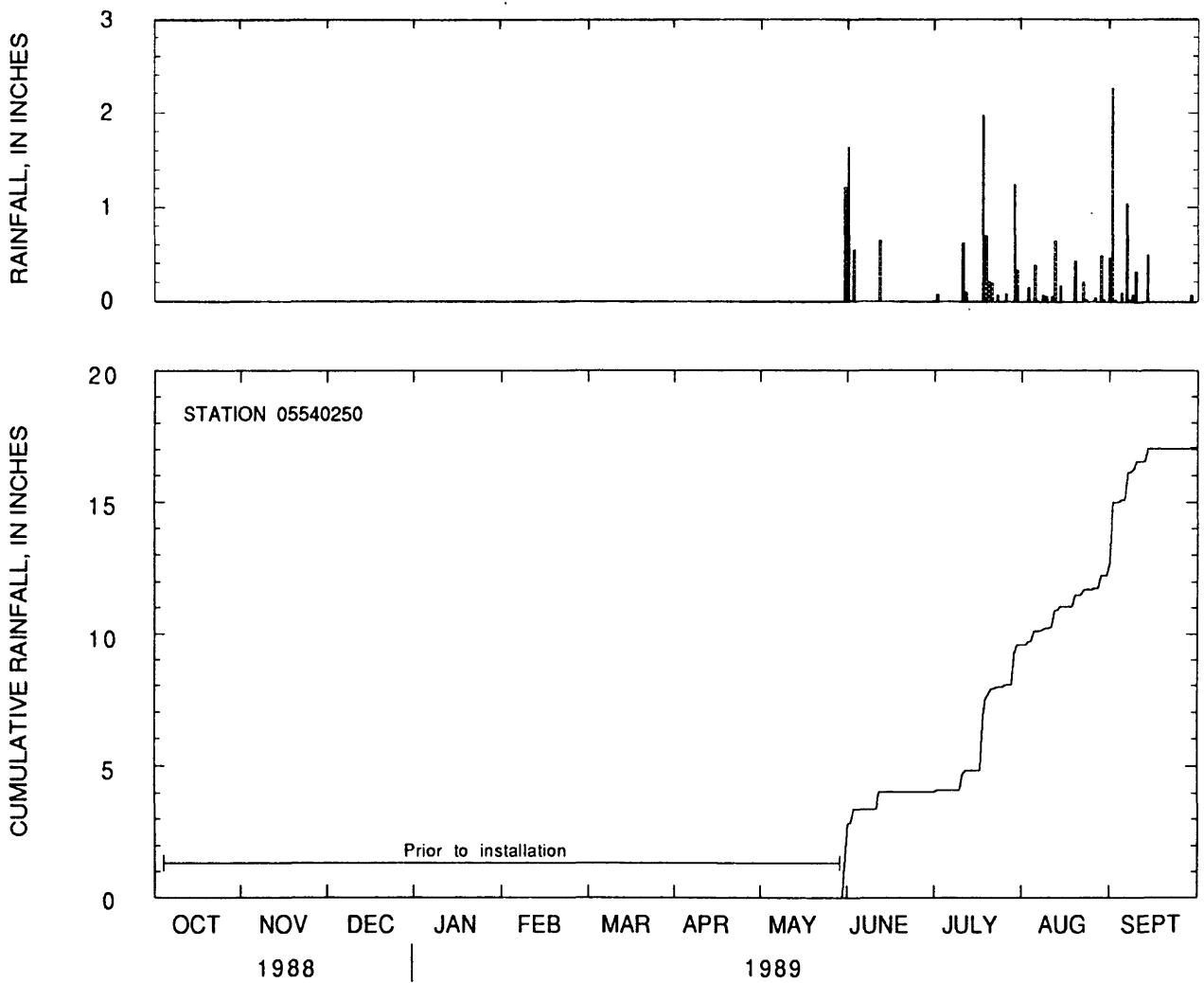


Figure 30.--Daily rainfall totals and cumulative rainfall at East Branch Du Page River at Bolingbrook, Illinois, water year 1989.

05540250 East Branch Du Page River at Bolingbrook, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	--	1.63	0.01	0.00	2.26
2	--	--	--	--	--	--	--	--	.01	.07	.00	.02
3	--	--	--	--	--	--	--	--	.54	.00	.14	.00
4	--	--	--	--	--	--	--	--	.00	.00	.00	.09
5	--	--	--	--	--	--	--	--	.00	.00	.38	.00
6	--	--	--	--	--	--	--	--	.00	.00	.01	1.04
7	--	--	--	--	--	--	--	--	.00	.00	.00	.02
8	--	--	--	--	--	--	--	--	.00	.00	.06	.07
9	--	--	--	--	--	--	--	--	.00	.00	.05	.31
10	--	--	--	--	--	--	--	--	.00	.00	.00	.00
11	--	--	--	--	--	--	--	--	.00	.61	.05	.00
12	--	--	--	--	--	--	--	--	.64	.10	.64	.00
13	--	--	--	--	--	--	--	--	.00	.00	.00	.49
14	--	--	--	--	--	--	--	--	.00	.00	.16	.00
15	--	--	--	--	--	--	--	--	.00	.00	.00	.00
16	--	--	--	--	--	--	--	--	.00	.00	.00	.00
17	--	--	--	--	--	--	--	--	.00	.00	.00	.00
18	--	--	--	--	--	--	--	--	.00	1.97	.00	.00
19	--	--	--	--	--	--	--	--	.00	.69	.42	.00
20	--	--	--	--	--	--	--	--	.00	.21	.00	.00
21	--	--	--	--	--	--	--	--	.00	.19	.00	.00
22	--	--	--	--	--	--	--	--	.00	.00	.20	.00
23	--	--	--	--	--	--	--	--	.00	.06	.02	.00
24	--	--	--	--	--	--	--	--	.00	.00	.00	.00
25	--	--	--	--	--	--	--	--	.00	.00	.00	.00
26	--	--	--	--	--	--	--	--	.00	.08	.04	.00
27	--	--	--	--	--	--	--	--	.00	.00	.00	.00
28	--	--	--	--	--	--	--	--	.00	.00	.48	.06
29	--	--	--	--	--	--	--	--	.00	1.24	.02	.00
30	--	--	--	--	--	--	--	p0.00	.00	.33	.00	.00
31	--	--	--	--	--	--	--	1.21	--	.00	.46	--
Total	--	--	--	--	--	--	--	--	2.82	5.56	3.13	4.36

p Partial record.

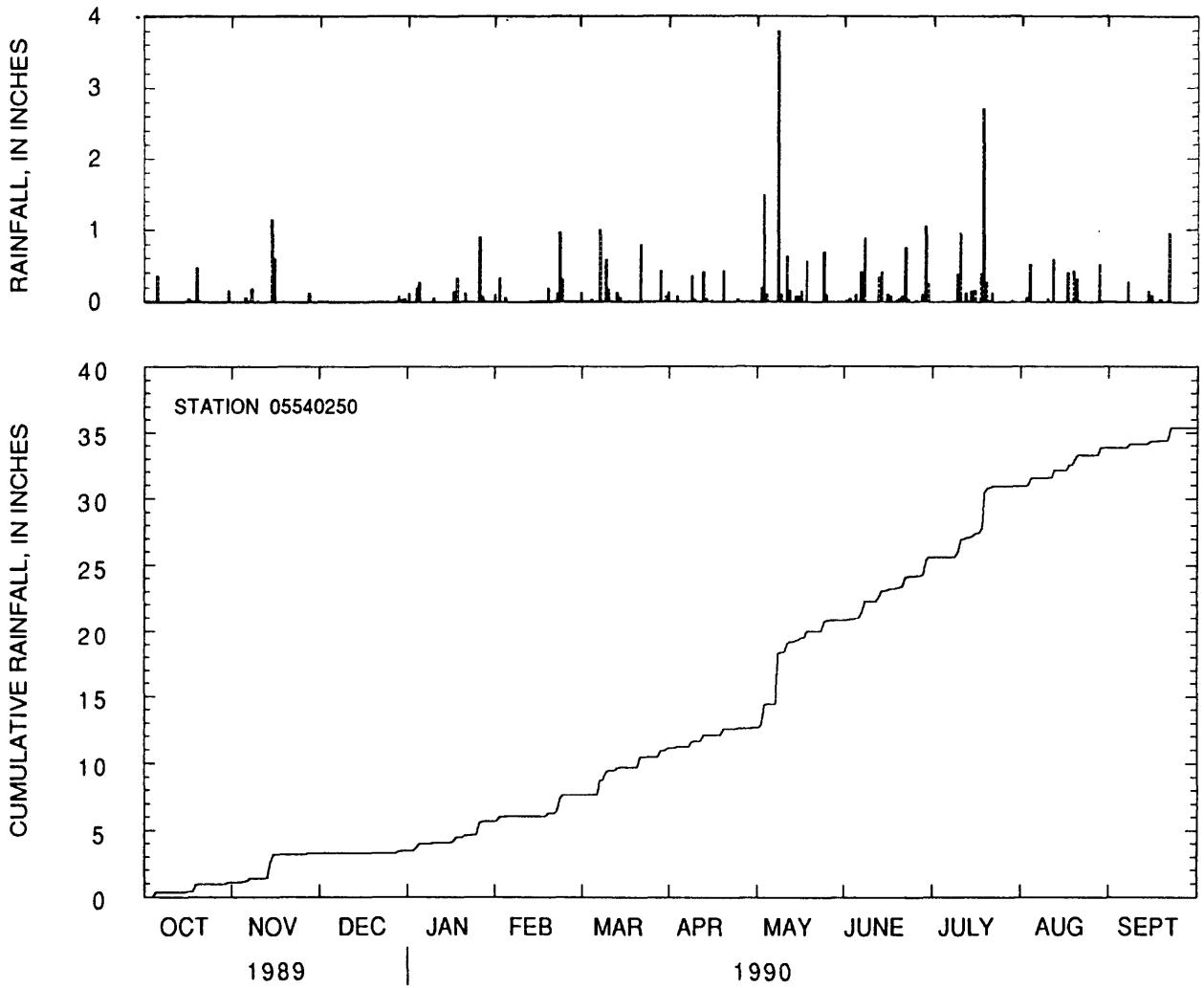


Figure 31.--Daily rainfall totals and cumulative rainfall at East Branch Du Page River at Bolingbrook, Illinois, water year 1990.

05540250 East Branch Du Page River at Bolingbrook, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.34	0.00	0.14	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.01	.00	.03	.00	.00	.00
3	.00	.00	.00	s.20	s.06	.00	.00	.20	.05	.00	.07	.00
4	.00	.00	.00	s.27	.00	.00	.08	1.49	.00	.00	.51	.00
5	.36	.06	.00	.00	.00	s.04	.01	.11	.10	.01	.00	.00
6	.00	.03	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
7	.00	.19	.00	.00	.00	.00	.00	.00	.41	.00	.00	.28
8	.00	.00	.00	.01	.00	1.00	.00	.00	.88	.00	.00	.00
9	.00	.02	.00	.07	.00	.00	.36	3.80	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.58	.04	.11	.00	.38	.05	.00
11	.00	.00	.00	.01	.00	.18	.00	.00	.00	.95	.00	.00
12	.00	.00	.00	.00	.00	.02	.00	.63	.00	.00	.58	.00
13	.00	.01	.00	.00	.00	.00	.42	.16	.33	.12	.00	.00
14	.00	1.15	.00	.00	.00	.14	.05	.00	.41	.01	.00	.15
15	.00	.60	.00	.00	.00	.06	.00	.08	.00	.15	.00	.09
16	.05	.00	.00	.15	.00	.00	.02	.08	.11	.16	.00	.00
17	.02	.00	.00	.34	.00	.00	.00	.15	.08	.00	.40	.00
18	s.01	s.01	.00	.00	s.20	s.01	.00	.00	.00	.39	.00	.04
19	s.47	.00	.00	.00	.00	.00	.00	.56	.02	2.72	.43	.00
20	s.03	.00	.00	.12	.00	.00	.43	.00	.05	.27	.32	.01
21	.00	.00	.00	s.01	s.12	.00	.00	.00	.08	.02	.02	.95
22	.00	.00	.00	.00	s.97	.79	.00	.00	.75	.13	.00	.00
23	.00	.00	.00	s.01	s.32	.00	.00	.00	.04	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	s.91	.00	.00	.04	.69	.00	.00	.00	.00
26	.00	.00	.00	s.08	.00	.00	.00	.10	.03	.01	.00	.00
27	.00	.13	.00	s.02	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	s.08	.00	.00	.00	.01	.00	.10	.00	.51	.00
29	.00	.00	s.04	.00	--	.43	.00	.00	1.05	.02	.02	.00
30	.16	.00	s.05	.00	--	.00	.03	.00	.25	.00	.00	.00
31	.01	--	.00	.00	--	.08	--	.00	--	.00	.00	--
Total	1.11	2.20	0.17	2.20	2.01	3.33	1.64	8.17	4.77	5.34	2.91	1.52

s Snowfall-affected precipitation.

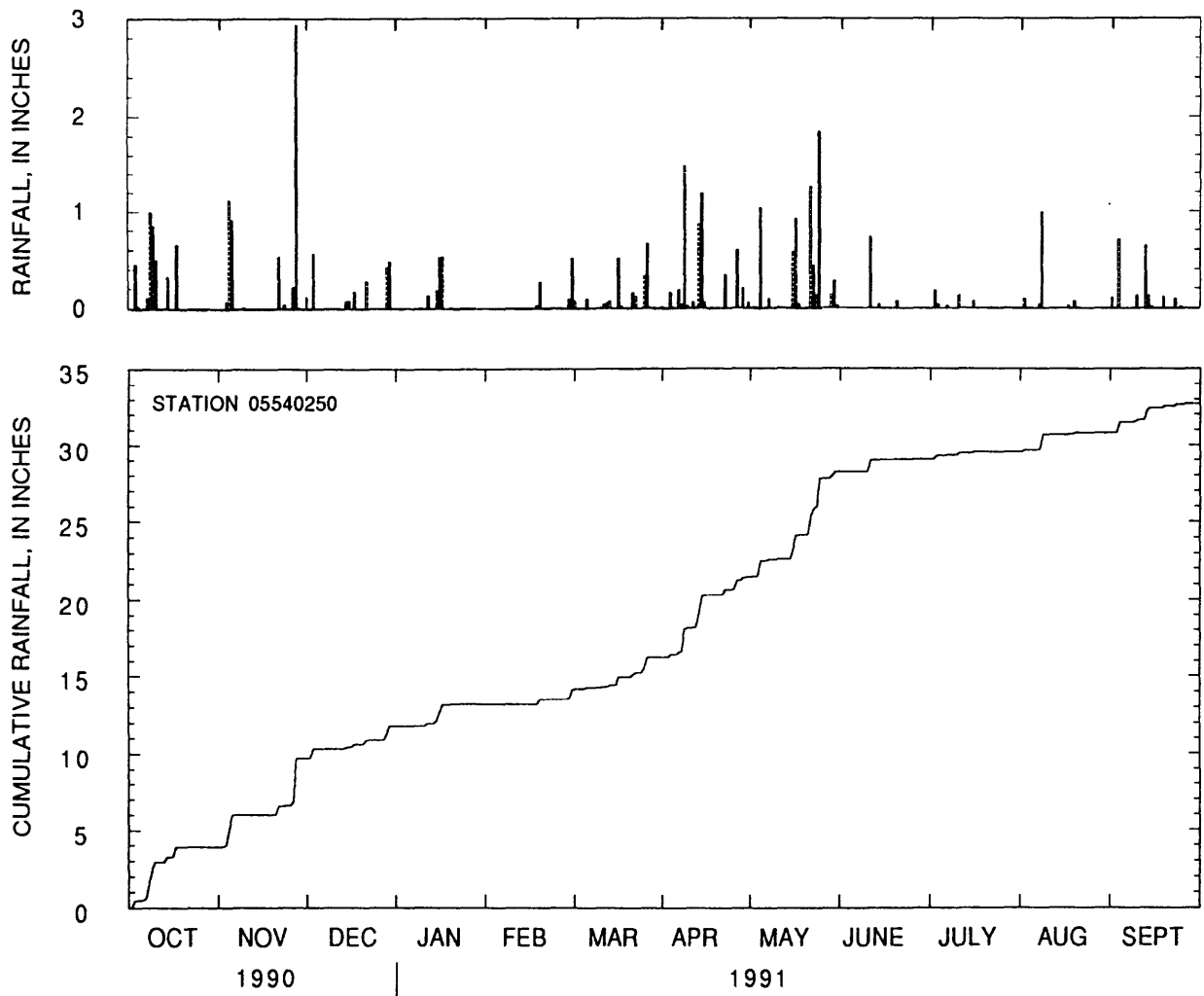


Figure 32.--Daily rainfall totals and cumulative rainfall at East Branch Du Page River at Bolingbrook, Illinois, water year 1991.

05540250 East Branch Du Page River at Bolingbrook, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.00	0.51	0.01	0.05	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.10	.00
3	.45	.07	.56	.00	.00	.00	.00	.01	.00	.19	.00	.70
4	.02	1.12	.00	.00	.00	.00	.16	.00	.00	.04	.00	.00
5	.00	.91	.00	.00	.00	.00	.00	1.03	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00
7	.11	.00	.00	.00	.00	.00	.18	.00	.00	.03	.04	.00
8	.99	.00	.00	.00	.00	.00	.04	.09	.00	.00	.99	.01
9	.85	.01	.00	.00	.00	.00	1.49	.00	.00	.00	.00	.13
10	.50	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
11	.00	.00	.00	s.13	.00	.01	.00	.01	.73	.13	.00	.00
12	.00	.00	.00	.00	.00	s.04	.06	.00	.00	.00	.00	.64
13	.00	.00	.00	.00	.00	s.05	.01	.00	.00	.00	.00	.13
14	.33	.00	s.07	s.19	.00	s.07	.86	.00	.04	.00	.00	.02
15	.00	.00	.08	s.52	.00	.00	1.19	.00	.00	.00	.00	.00
16	.00	.00	.00	s.53	.00	.00	.06	.57	.00	.07	.00	.00
17	.65	.00	.17	.00	s.03	.51	.00	.92	.00	.00	.03	.00
18	.00	.00	.00	.00	s.27	.02	.00	.04	.00	.00	.00	.12
19	.00	.00	.00	s.01	.00	.00	.00	.00	.00	.00	.07	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.01	.00
21	.00	.53	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.16	.00	1.26	.00	.01	.00	.10
23	.00	.04	.00	.00	.00	.12	.34	.44	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.02
25	.00	.00	.00	.00	.00	.00	.00	1.84	.00	.00	.00	.01
26	.00	.22	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00
27	.00	2.94	.00	.00	.00	.66	.59	.00	.00	.00	.00	.00
28	.00	.01	.42	.00	s.09	.01	.00	.00	.00	.00	.00	.00
29	.00	.00	.48	.00	--	.00	.20	.14	.00	.00	.00	.00
30	.00	.00	.00	.00	--	.00	.00	.28	.00	.00	.00	.00
31	.00	--	.00	.00	--	.00	--	.03	--	.00	.00	--
Total	3.90	5.85	2.06	1.38	0.39	2.65	5.21	6.84	0.84	0.47	1.24	1.88

s Snowfall-affected precipitation.

Marienbrook Wastewater Treatment Facility at Darien, Illinois

Site identifier.--8

Station number.--414411087575000

Location.--Latitude 41°44'11", longitude 87°57'50", in SE1/4SE1/4NW1/4 sec. 34, T.38 N., R.11 E., Du Page County, on northwest corner of south settling tank of Marienbrook Wastewater Treatment Facility (Sag Bridge 7.5-minute quadrangle).

To reach gage.--From south: From the intersection of Cass Avenue and Interstate 55, drive north on Cass Avenue approximately 0.2 mi to Frontage Road. From the intersection of Cass Avenue and Frontage Road, drive east approximately 0.6 mi to Nantucket Road. Marienbrook Wastewater Treatment Facility is at the northeast corner of intersection of Frontage Road and Nantucket Road. The gage is on the northwest corner of the south settling tank.

Drainage basin.--Sawmill Creek.

Gage.--A 12-in.-diameter, heated, tipping-bucket rain gage mounted on a 2-in. pipe, approximately 12 ft above the ground. The electronic data logger is housed in a weatherproof electrical enclosure below the rain gage.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--October 1, 1990, to present. A period of missing record exists because of equipment-related problems.

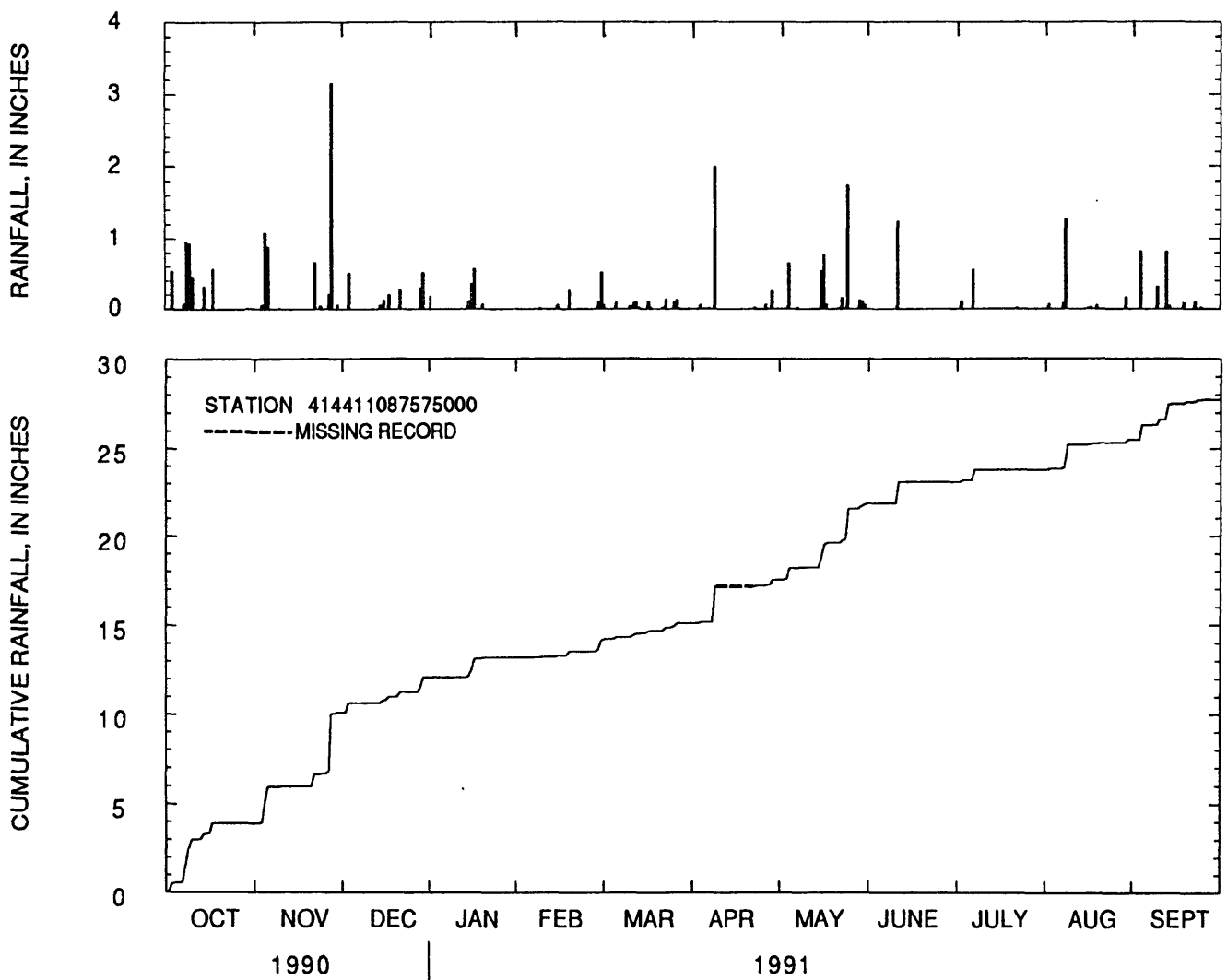


Figure 33.--Daily rainfall totals and cumulative rainfall at Marienbrook Wastewater Treatment Facility at Darien, Illinois, water year 1991.

414411087575000 Marienbrook Wastewater Treatment Facility
at Darien, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.01	0.01	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.07	.00
3	.54	.07	.51	.00	.00	.00	.00	.01	.00	.11	.00	.82
4	.02	1.08	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00
5	.00	.89	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00
6	.00	.01	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00
7	.08	.00	.00	.00	.00	.00	.02	.00	.00	.56	.08	.00
8	.96	.00	.00	.00	.02	.00	.00	.03	.00	.00	1.28	.00
9	.94	.02	.00	.00	.00	.00	1.99	.00	.00	.00	.00	.32
10	.45	.00	.00	.00	.00	.00	m	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.04	m	.00	1.24	.01	.00	.00
12	.00	.00	.00	.00	.00	.08	m	.00	.00	.00	.00	.82
13	.00	.00	.00	.00	.00	.09	m	.00	.00	.00	.00	.05
14	.32	.00	.06	.11	.06	.03	m	.00	.00	.00	.00	.00
15	.01	.00	.12	.36	.00	.00	m	.00	.00	.00	.00	.00
16	.00	.00	.00	.57	.00	.00	m	.54	.00	.00	.02	.00
17	.57	.00	.20	.00	.00	.10	.00	.77	.00	.00	.03	.00
18	.00	.00	.00	.00	.26	.03	.00	.07	.00	.00	.00	.08
19	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.05	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.66	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.03	.00	.02	.00	.02	.00	.10
23	.00	.05	.00	.00	.00	.13	.03	.16	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00	.03
25	.00	.00	.00	.00	.00	.00	.00	1.74	.00	.00	.00	.01
26	.00	.21	.00	.00	.00	.10	.00	.01	.00	.00	.00	.00
27	.00	3.16	.00	.00	.01	.12	.07	.00	.00	.00	.00	.00
28	.00	.00	.30	.00	.10	.01	.00	.00	.00	.00	.00	.00
29	.00	.07	.52	.00	--	.00	.26	.12	.00	.00	.17	.00
30	.00	.00	.00	.00	--	.00	.00	.11	.00	.00	.00	.00
31	.00	--	.00	.00	--	.01	--	.06	--	.00	.00	--
Total	3.89	6.22	1.99	1.11	0.45	1.44	--	4.32	1.25	0.70	1.70	2.23

m Missing record.

Clarendon Hills Cemetery at Darien, Illinois

Site identifier.--9

Station number.--414552087585600

Location.--Latitude 41°45'52", longitude 87°58'56", in NW1/4NW1/4SE1/4 sec.21, T.38 N., R.11 E., Du Page County, on the northern perimeter of the cemetery road, within Clarendon Hills Cemetery (Hinsdale 7.5-minute quadrangle).

To reach gage.--From south: From the intersection of 75th Street and Cass Avenue, drive north on Cass Avenue approximately 0.7 mi to the cemetery entrance. Turn left into the cemetery. Bear right along the northern perimeter of the cemetery road. The rain gage is located on the north side of the cemetery road approximately 1,500 ft west of Cass Avenue.

Drainage basin.--St. Joseph Creek.

Gage.--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a 4-in.-diameter steel post approximately 6 ft above the ground. An electronic data logger housed inside a weatherproof electrical enclosure is mounted on the steel post below the rain gage.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--February 21, 1986, to present. Periods of missing record exist because of equipment-related problems.

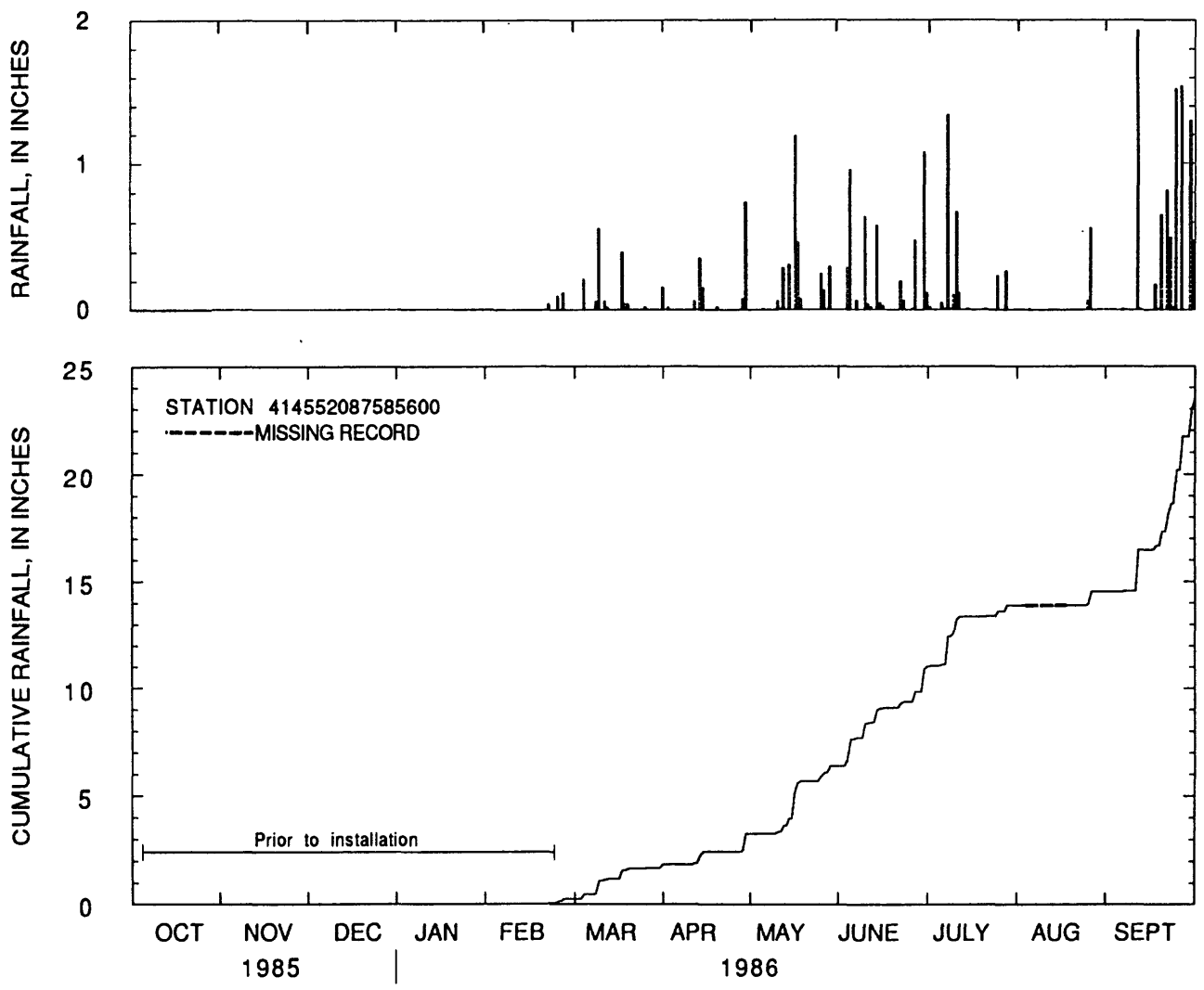


Figure 34.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1986.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1985 to September 1986
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	0.00	0.16	0.00	0.00	0.12	0.00	0.00
2	--	--	--	--	--	.00	.00	.00	.00	.02	.00	.00
3	--	--	--	--	--	.00	.02	.00	.00	.00	.00	.00
4	--	--	--	--	--	.00	.00	.00	.29	.00	.00	.00
5	--	--	--	--	--	.22	.00	.00	.96	.00	.01	.00
6	--	--	--	--	--	.00	.00	.01	.00	.05	m	.01
7	--	--	--	--	--	.00	.00	.00	.07	.01	m	.00
8	--	--	--	--	--	.00	.00	.00	.00	1.34	m	.00
9	--	--	--	--	--	.06	.00	.00	.00	.01	m	.00
10	--	--	--	--	--	.56	.00	.00	.64	.11	m	.00
11	--	--	--	--	--	.00	.00	.06	.04	.67	m	1.93
12	--	--	--	--	--	.06	.06	.01	.02	.12	m	.01
13	--	--	--	--	--	.02	.00	.29	.00	.00	m	.00
14	--	--	--	--	--	.00	.36	.00	.58	.00	p.00	.00
15	--	--	--	--	--	.00	.16	.31	.05	.01	.00	.00
16	--	--	--	--	--	.00	.00	.00	.03	.00	.00	.00
17	--	--	--	--	--	.00	.00	1.19	.00	.00	.00	.18
18	--	--	--	--	--	.40	.00	.47	.00	.00	.00	.01
19	--	--	--	--	--	.04	.00	.08	.00	.00	.00	.65
20	--	--	--	--	--	.04	.02	.00	.00	.00	.00	.00
21	--	--	--	--	s0.04	.00	.00	.00	.00	.01	.00	.82
22	--	--	--	--	.00	.00	.00	.00	.20	.00	.00	.50
23	--	--	--	--	.00	.00	.00	.00	.07	.00	.00	.02
24	--	--	--	--	s.10	.00	.00	.00	.00	.00	.00	1.52
25	--	--	--	--	.00	.00	.00	.00	.00	.24	.07	.00
26	--	--	--	--	s.12	.02	.00	.25	.01	.00	.56	1.54
27	--	--	--	--	.00	.00	.00	.14	.48	.00	.00	.00
28	--	--	--	--	.00	.00	.00	.00	.00	.27	.00	.00
29	--	--	--	--	--	.00	.08	.30	.00	.00	.00	1.30
30	--	--	--	--	--	.00	.74	.00	1.08	.00	.00	.48
31	--	--	--	--	--	.00	--	.00	--	.00	.00	--
Total	--	--	--	--	--	1.42	1.60	3.11	4.52	2.98	--	8.97

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

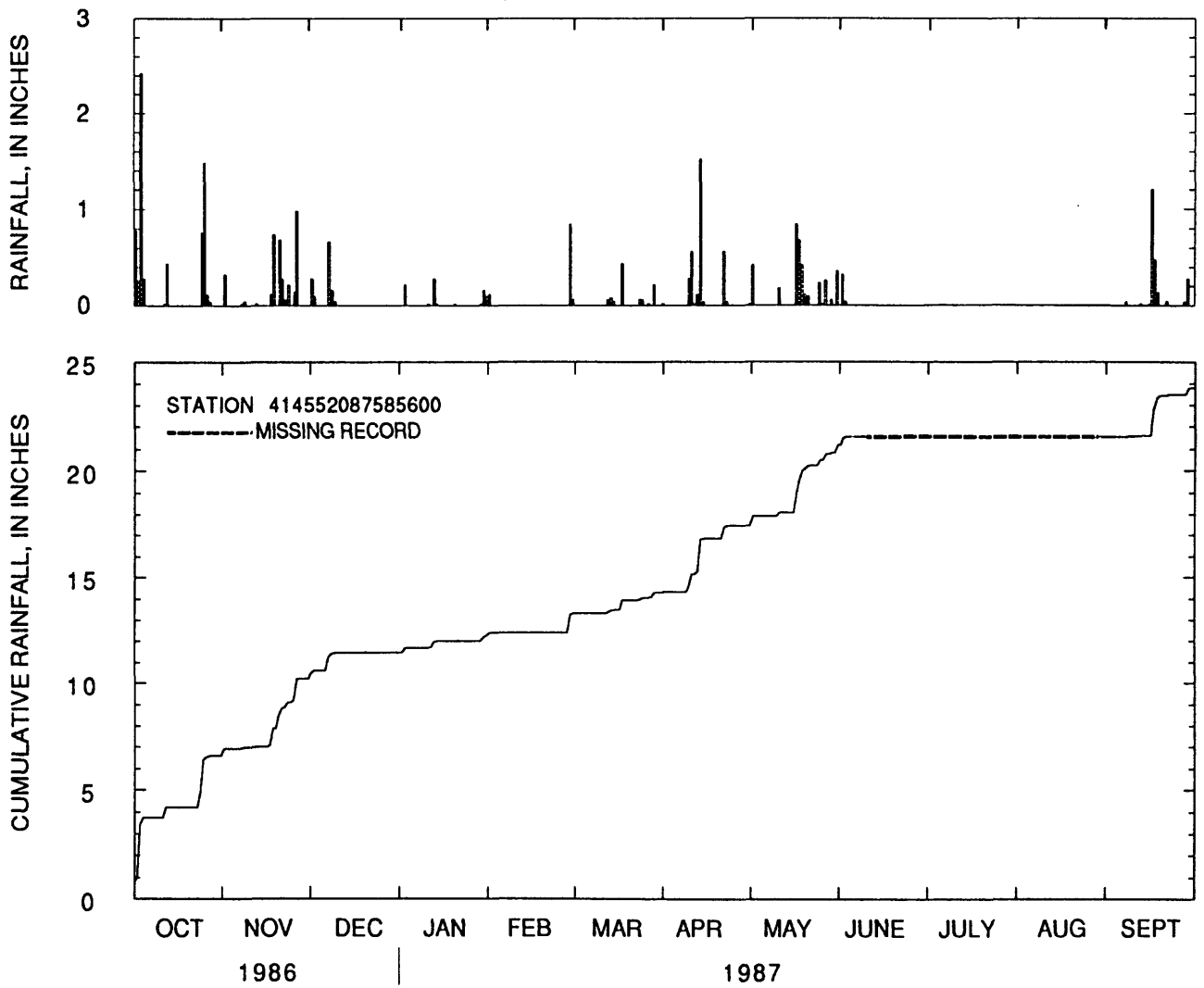


Figure 35.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1987.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1986 to September 1987
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.78	0.32	0.28	0.00	0.00	0.06	0.02	0.02	0.00	m	m	0.00
2	.26	.00	.10	s.22	.00	.00	.00	.42	.32	m	m	.00
3	2.42	.00	.00	.00	.00	.00	.00	.00	.04	m	m	.00
4	.28	.00	.00	.00	.00	.00	.00	.00	.00	m	m	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	m	m	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	m	m	.00
7	.00	.02	.66	.00	.00	.00	.00	.00	.00	m	m	.04
8	.00	.04	.16	.00	.00	.00	.00	.00	.00	m	m	.00
9	.00	.00	.04	.00	.00	.00	.00	.00	.00	m	m	.00
10	.00	.00	.00	s.02	.00	.00	.28	.00	m	m	m	.00
11	.02	.00	.00	.00	.00	.00	.56	.18	m	m	m	.00
12	.44	s.02	.00	s.28	.00	.00	.02	.00	m	m	m	.02
13	.00	.00	.00	s.02	.00	s.06	.12	.00	m	m	m	.00
14	.00	.00	.00	.00	.00	s.08	1.52	.00	m	m	m	.00
15	.00	.00	.00	.00	.00	.04	.04	.00	m	m	m	.02
16	.00	.00	.00	.00	.00	.00	.00	.00	m	m	m	1.20
17	.00	.12	.00	.00	.00	.00	.00	.84	m	m	m	.48
18	.00	s.74	.00	.00	.00	.44	.00	.68	m	m	m	.14
19	.00	.00	.00	s.02	.00	.00	.00	.42	m	m	m	.00
20	.00	s.68	.00	.00	.00	.00	.00	.12	m	m	m	.00
21	.00	.28	.00	.00	.00	.00	.00	.10	m	m	m	.04
22	.00	.06	.00	.00	.00	.00	.56	.00	m	m	m	.00
23	.00	.22	.00	.00	.00	.00	.04	.00	m	m	m	.00
24	.76	.00	.00	.00	.00	.06	.00	.00	m	m	m	.00
25	1.48	.14	.00	.00	.00	.06	.00	.24	m	m	m	.00
26	.12	.98	.00	.00	.00	.00	.00	.02	m	m	m	.00
27	.04	.00	.00	.00	.00	.02	.00	.26	m	m	0.00	.04
28	.00	.00	.00	.02	.84	.00	.00	.00	m	m	.00	.28
29	.00	.00	.00	s.16	--	.22	.00	.06	m	m	.00	.00
30	.00	.00	.00	.10	--	.00	.00	.00	m	m	.00	.00
31	.00	--	.00	.12	--	.00	--	.36	--	m	.00	--
Total	6.60	3.62	1.24	0.96	0.84	1.04	3.16	3.72	--	--	--	2.26

m Missing record.

s Snowfall-affected precipitation.

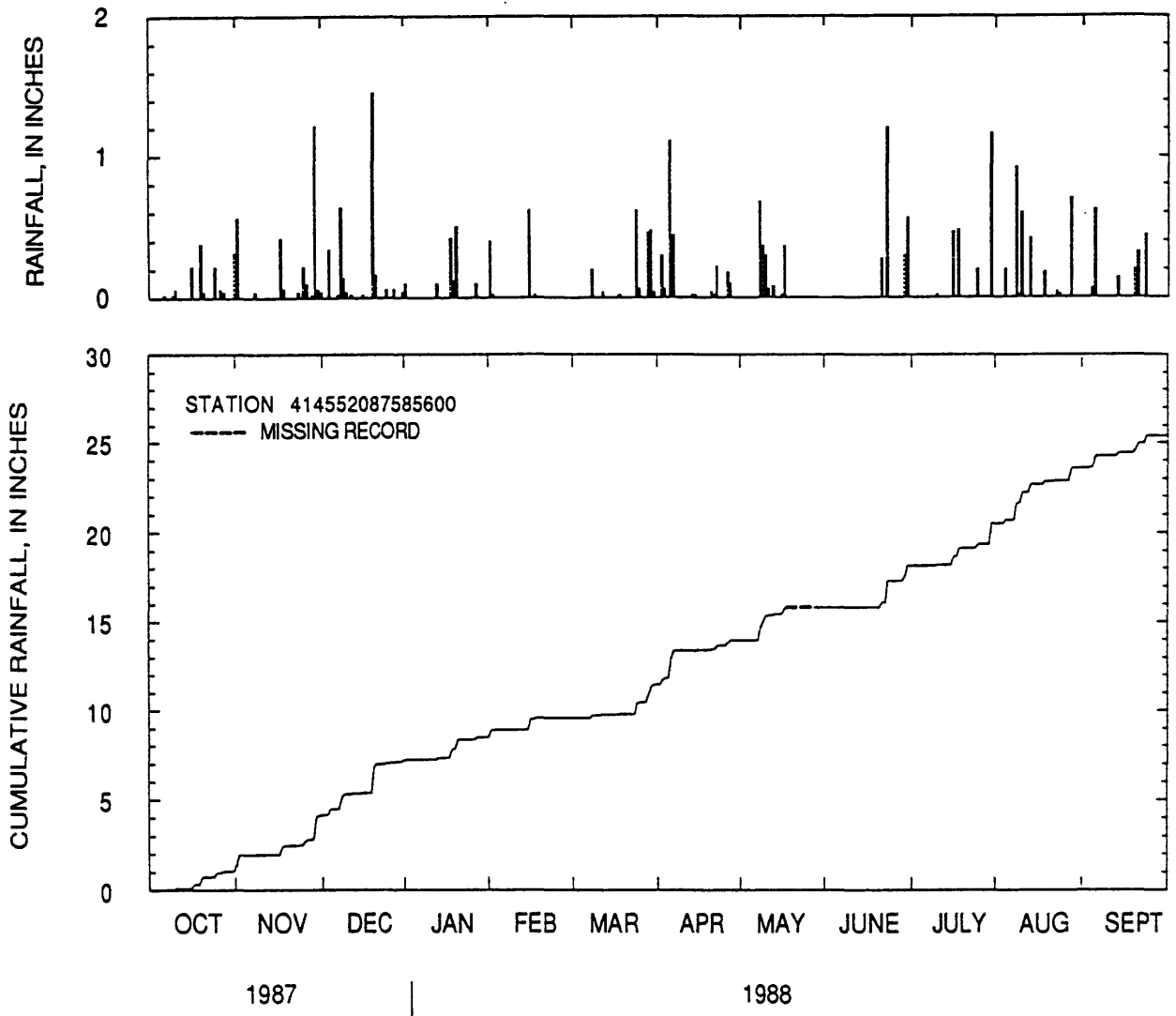


Figure 36.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1988.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1987 to September 1988
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.56	0.00	0.00	s0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00
3	.00	.00	s.34	.00	.00	.00	.06	.00	.00	.00	.00	.06
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.62
5	.00	.00	.00	.00	.00	.00	1.11	.00	.00	.00	.00	.00
6	.02	.00	s.02	.00	.00	.00	.44	.00	.00	.00	.00	.00
7	.00	.04	s.64	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	s.14	.00	.00	.20	.00	.68	.00	.00	.92	.00
9	.02	.00	s.04	.00	.00	.00	.00	.36	.00	.00	.02	.00
10	.06	.00	.00	.00	.00	.00	.00	.30	.00	.02	.60	.00
11	.00	.00	.02	.00	.00	.00	.00	.06	.00	.00	.00	.00
12	.00	.00	.00	s.10	.00	.04	.00	.00	.00	.00	.00	.14
13	.00	.00	.00	.00	.00	.00	.02	.08	.00	.00	.42	.00
14	.00	.00	.00	.00	s.62	.00	.02	.00	.00	.00	.00	.00
15	.00	.00	s.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.22	.42	.00	.00	s.02	.00	.00	.02	.00	.46	.00	.00
17	.00	.06	.00	s.42	.00	.00	.00	.36	.00	.00	.00	.00
18	.00	.00	.00	s.12	.00	s.02	.00	.00	.00	.48	.18	.20
19	.38	.00	s1.46	s.50	.00	.00	.00	.00	.00	.00	.00	.32
20	.04	.00	s.16	.00	.00	.00	.04	.00	.28	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
22	.00	.04	.00	.00	.00	.00	.22	.00	1.21	.00	.04	.44
23	.00	.00	.00	.00	.00	.00	.00	m	.00	.00	.02	.00
24	.22	.22	s.06	.00	.00	.62	.00	m	.00	.00	.00	.00
25	.00	.10	.00	.00	.00	.06	.00	m	.00	.20	.00	.00
26	.06	.00	.00	s.10	.00	.00	.18	.00	.00	.00	.00	.00
27	.04	.02	s.06	.00	.00	.00	.10	.00	.00	.00	.70	.00
28	.00	1.22	.00	.00	.00	.46	.00	.00	.30	.00	.00	.00
29	.00	.06	.00	.00	.00	.48	.00	.00	.56	.00	.00	.00
30	.00	.04	s.04	.00	--	.04	.00	.00	.00	1.16	.00	.00
31	.32	--	s.10	s.40	--	.00	--	.00	--	.00	.00	--
Total	1.38	2.78	3.10	1.64	0.66	1.92	2.51	--	2.35	2.32	3.10	1.78

m Missing record.

s Snowfall-affected precipitation.

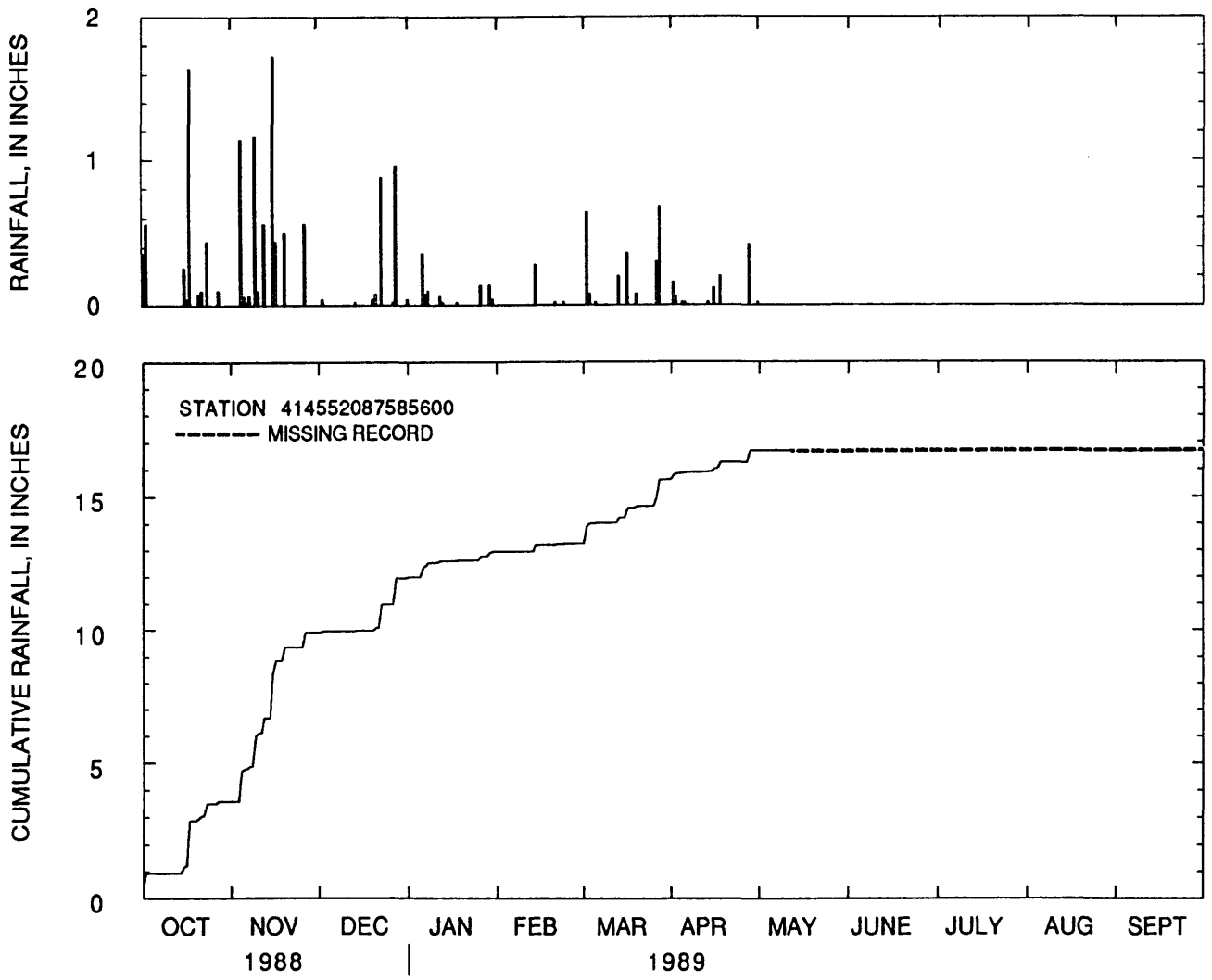


Figure 37.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1989.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.02	m	m	m	m
2	.56	.00	.04	.00	.00	.00	.16	.00	m	m	m	m
3	.00	.00	.00	.00	.00	s.64	.06	.00	m	m	m	m
4	.00	1.14	.00	.00	.00	s.08	.00	.00	m	m	m	m
5	.00	s.06	.00	.36	.00	.00	.02	.00	m	m	m	m
6	.00	s.02	.00	.08	.00	.02	.02	.00	m	m	m	m
7	.00	.06	.00	.10	.00	.00	.00	.00	m	m	m	m
8	.00	.00	.00	.00	.00	.00	.00	.00	m	m	m	m
9	.00	1.16	.00	.00	.00	.00	.00	.00	m	m	m	m
10	.00	.10	.00	.00	.00	.00	.00	.00	m	m	m	m
11	.00	.00	.00	.06	.00	.00	.00	.00	m	m	m	m
12	.00	.56	.00	.02	.00	.00	.00	.00	m	m	m	m
13	.00	.00	s.02	.00	s.28	.00	.00	p.00	m	m	m	m
14	.00	.00	.00	.00	.00	.20	.02	m	m	m	m	m
15	.26	1.73	.00	.00	.00	.00	.00	m	m	m	m	m
16	.04	.44	.00	.00	.00	.00	.12	m	m	m	m	m
17	1.64	.00	.00	.02	.00	.36	.00	m	m	m	m	m
18	.00	.00	.00	.00	.00	.00	.20	m	m	m	m	m
19	.00	.50	.04	.00	.00	.00	.00	m	m	m	m	m
20	.08	.00	.08	.00	s.02	s.08	.00	m	m	m	m	m
21	.10	.00	.00	.00	.00	.00	.00	m	m	m	m	m
22	.00	.00	.88	.00	.00	.00	.00	m	m	m	m	m
23	.44	.00	.00	.00	s.02	.00	.00	m	m	m	m	m
24	.00	.00	.00	.00	.00	.00	.00	m	m	m	m	m
25	.00	.00	.00	.14	.00	.00	.00	m	m	m	m	m
26	.00	.56	s.02	.00	.00	.00	.00	m	m	m	m	m
27	.10	.00	s.96	.00	.00	.30	.00	m	m	m	m	m
28	.00	.00	.00	.14	.00	.68	.42	m	m	m	m	m
29	.00	.00	.00	.04	--	.00	.00	m	m	m	m	m
30	.00	.00	.00	.00	--	.00	.00	m	m	m	m	m
31	.00	--	s.04	.00	--	.00	--	m	--	m	m	--
Total	3.58	6.33	2.08	0.96	0.32	2.36	1.02	--	--	--	--	--

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

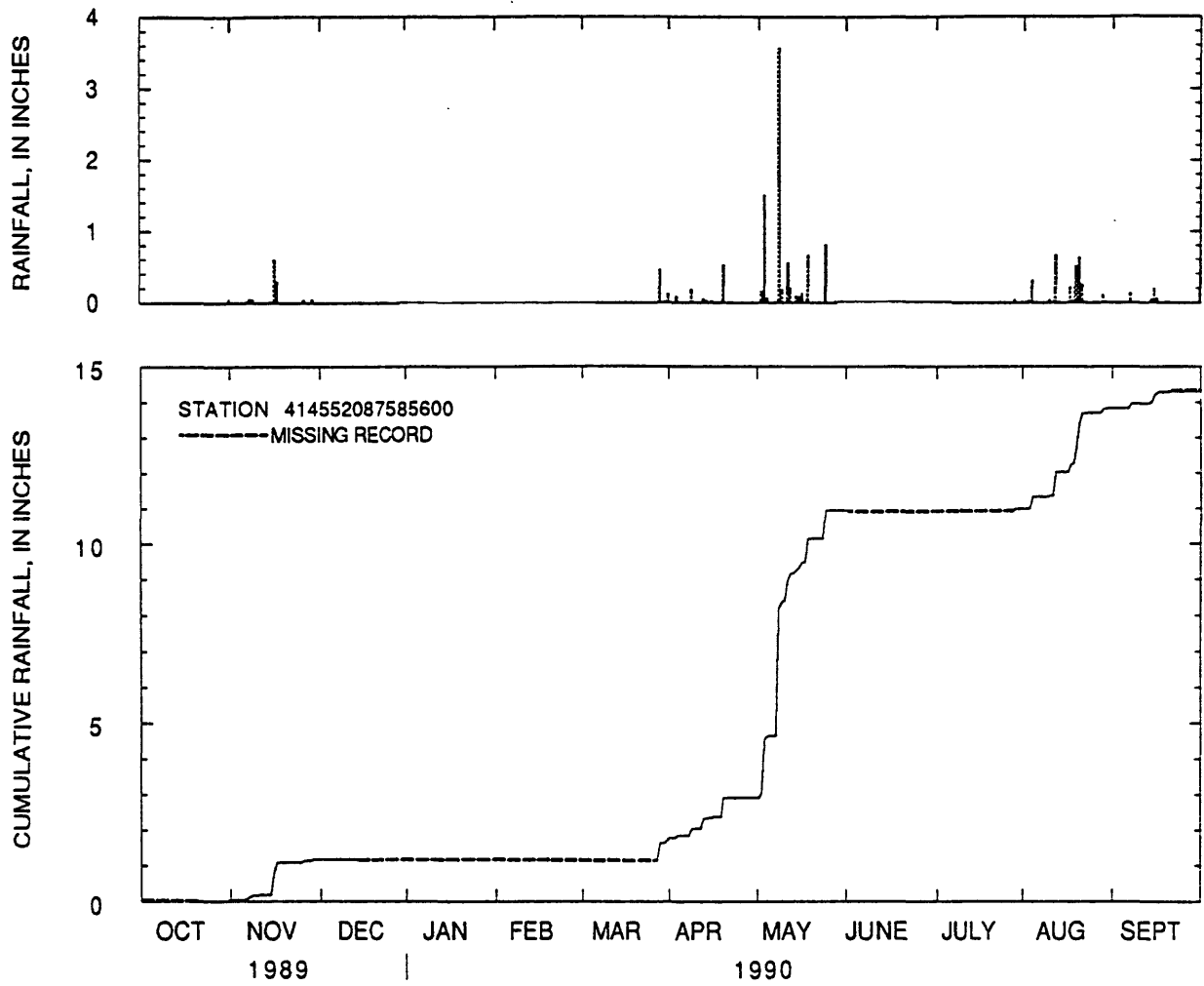


Figure 38.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1990.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	0.01	0.00	m	m	m	0.12	0.00	p0.00	m	0.00	0.00
2	m	.00	.00	m	m	m	.00	.00	m	m	.00	.00
3	m	.00	.00	m	m	m	.00	.16	m	m	.03	.00
4	m	.00	.00	m	m	m	.08	1.51	m	m	.31	.00
5	m	.00	.00	m	m	m	.00	.06	m	m	.00	.00
6	m	.02	.00	m	m	m	.00	.00	m	m	.00	.14
7	m	.06	.00	m	m	m	.00	.00	m	m	.00	.00
8	m	.04	.00	m	m	m	.00	.00	m	m	.00	.00
9	m	.00	.00	m	m	m	.19	3.57	m	m	.00	.00
10	m	.01	.00	m	m	m	.01	.19	m	m	.04	.00
11	m	.00	.00	m	m	m	.00	.00	m	m	.00	.00
12	m	.00	.00	m	m	m	.00	.56	m	m	.66	.00
13	m	.00	p.00	m	m	m	.27	.21	m	m	.00	.05
14	m	.01	m	m	m	m	.03	.00	m	m	.00	.20
15	m	.60	m	m	m	m	.00	.09	m	m	.00	.06
16	m	.29	m	m	m	m	.03	.08	m	m	.00	.00
17	m	.00	m	m	m	m	.00	.14	m	m	.22	.00
18	m	.00	m	m	m	m	.00	.00	m	m	.03	.01
19	m	.00	m	m	m	m	.00	.66	m	m	.51	.01
20	m	.00	m	m	m	m	.53	.00	m	m	.64	.00
21	p0.00	.00	m	m	m	m	.00	.00	m	m	.25	m
22	.00	.00	m	m	m	m	.00	.00	m	m	.01	m
23	.00	.00	m	m	m	m	.00	.00	m	m	.00	m
24	.00	.00	m	m	m	m	.00	.00	m	m	.00	m
25	.00	.04	m	m	m	m	.00	.81	m	p0.00	.00	m
26	.00	.00	m	m	m	m	.00	.00	m	.00	.00	m
27	.00	.00	m	m	m	m	.00	.00	m	.00	.00	m
28	.00	.05	m	m	m	m	.00	.00	m	.00	.11	m
29	.00	.00	m	m	--	p0.46	.00	.00	m	.04	.02	m
30	.00	.00	m	m	--	.00	.00	.00	m	.00	.00	m
31	.05	--	m	m	--	.02	--	.00	--	.00	.00	--
Total	--	1.13	--	--	--	--	1.26	8.04	--	--	2.83	--

m Missing record.
p Partial record.

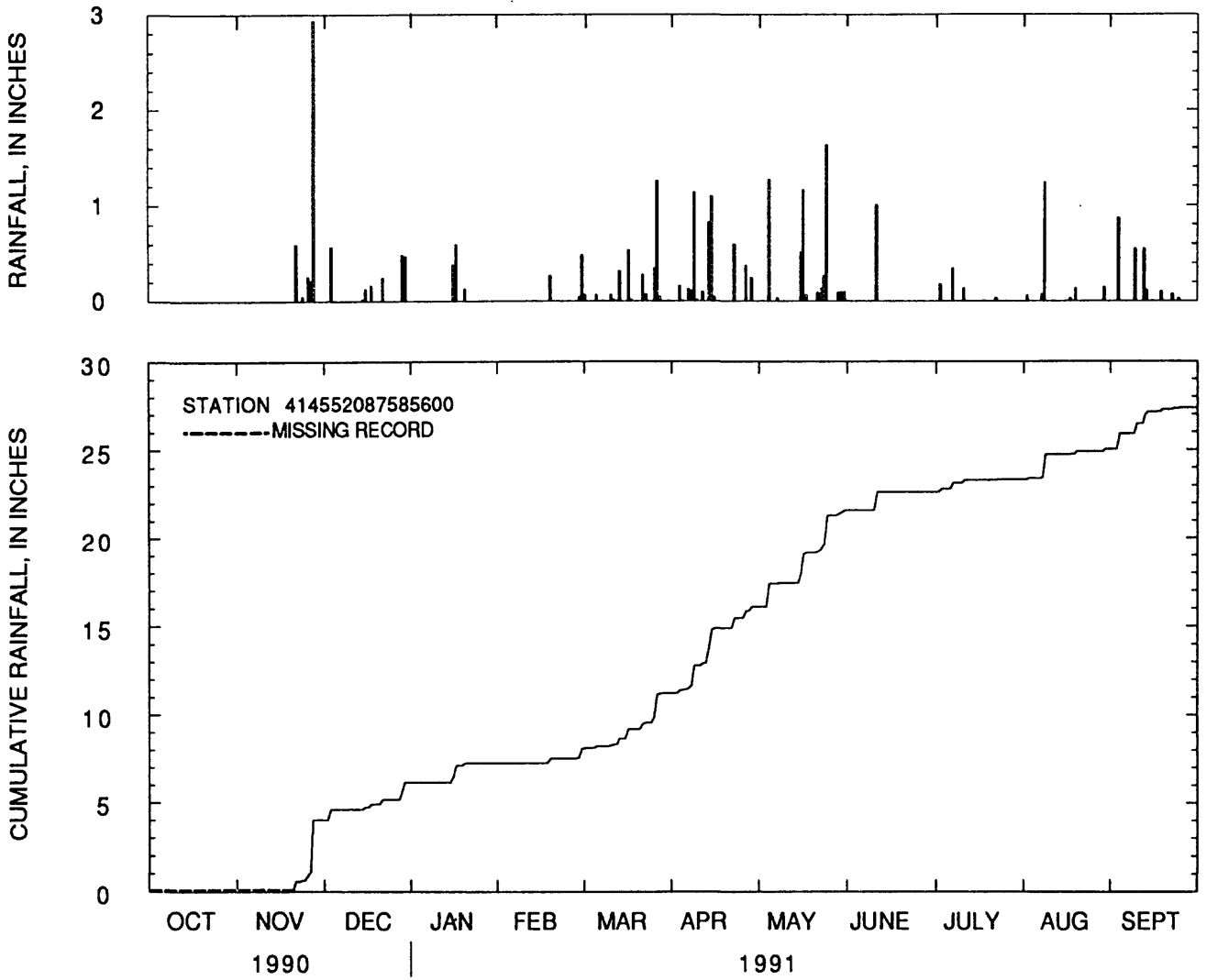


Figure 39.--Daily rainfall totals and cumulative rainfall at Clarendon Hills Cemetery at Darien, Illinois, water year 1991.

414552087585600 Clarendon Hills Cemetery at Darien, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	0.00	0.00	0.00	0.49	0.00	0.00	0.01	0.00	0.00	0.00
2	m	m	.01	.00	.00	.07	.00	.00	.00	.00	.06	.00
3	m	m	.57	.00	.00	.00	.00	.01	.00	.18	.00	.87
4	m	m	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00
5	m	m	.00	.00	.00	.00	.01	1.27	.00	.00	.00	.00
6	m	m	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
7	m	m	.00	.00	.00	.00	.13	.00	.00	.35	.08	.00
8	m	m	.00	.00	.00	.01	.12	.04	.00	.00	1.24	.00
9	m	m	.00	.00	.00	.00	1.14	.00	.00	.00	.00	.55
10	m	m	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
11	m	m	.00	.00	.00	.07	.00	.00	1.01	.14	.00	.00
12	m	m	.00	.00	.00	s.02	.10	.00	.00	.00	.00	.55
13	m	m	.00	.00	.00	s.01	.00	.00	.00	.00	.00	.12
14	m	m	s.02	.00	.00	s.32	.83	.00	.00	.00	.00	.00
15	m	m	.13	s.39	.00	.00	1.09	.00	.00	.00	.00	.01
16	m	m	.00	s.59	.00	.00	.05	.52	.00	.00	.00	.00
17	m	m	.17	.00	.00	.54	.00	1.16	.00	.00	.03	.00
18	m	m	.00	.00	s.27	.02	.00	.07	.00	.01	.00	.11
19	m	m	.00	s.13	.00	.00	.00	.00	.00	.00	.14	.00
20	m	p0.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	m	.59	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	m	.00	.00	.00	.00	.28	.00	.09	.00	.04	.00	.08
23	m	.05	.00	.00	.00	.08	.59	.14	.00	.00	.00	.00
24	m	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	.03
25	m	.26	.00	.00	.00	.00	.00	1.63	.00	.00	.00	.00
26	m	.22	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00
27	m	2.94	.00	.00	.00	1.26	.38	.00	.00	.00	.00	.00
28	m	.00	.49	.00	s.05	.05	.00	.00	.00	.00	.00	.00
29	m	.00	.48	.00	--	.00	.25	.09	.00	.00	.15	.00
30	m	.00	.00	.00	--	.00	.00	.10	.00	.00	.00	.00
31	m	--	.00	.00	--	s.01	--	.10	--	.00	.00	--
Total	--	--	2.12	1.11	0.32	3.65	4.87	5.49	1.02	0.72	1.70	2.32

m Missing record
p Partial record.
s Snowfall-affected precipitation.

Morton Arboretum near Lisle, Illinois

Site identifier--10

Station number--414843088042500

Location--Latitude 41°48'43", longitude 88°04'25", in NE1/4NE1/4NE1/4 sec.3, T.38 N., R.10 E., Du Page County, on the roof of main office building of Morton Arboretum near Lisle (Wheaton 7.5-minute quadrangle).

To reach gage--From south: From the intersection of State Highway 53 and U.S. Highway 88, drive north on State Highway 53 approximately 0.3 mi to Morton Arboretum.

From north: From intersection of State Highway 53 and State Highway 56, drive south on State Highway 53 approximately 1.5 mi to Morton Arboretum. Arboretum entrance is on the east side of State Highway 53. Park in parking lot of main office building. Access to the rain gage on the roof of the main office building is by stairway from third floor.

Drainage basin--East Branch Du Page River.

Gage--A 12-in.-diameter, heated, tipping-bucket rain gage mounted to the roof of the main office building of Morton Arboretum. The electronic data logger is housed in a weatherproof electrical enclosure.

Accuracy--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record--June 3, 1989, to present. Periods of missing record exist because of equipment-related problems.

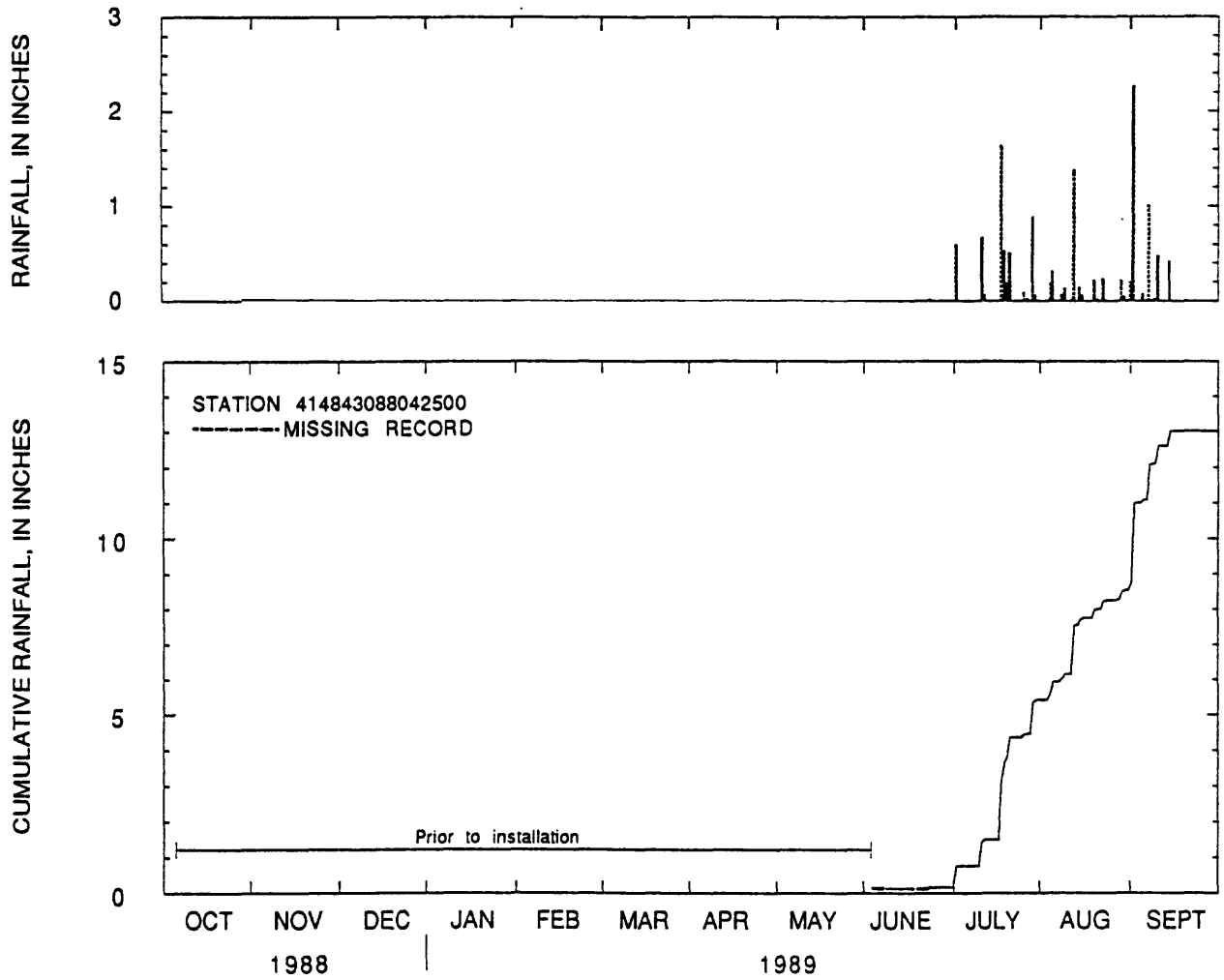


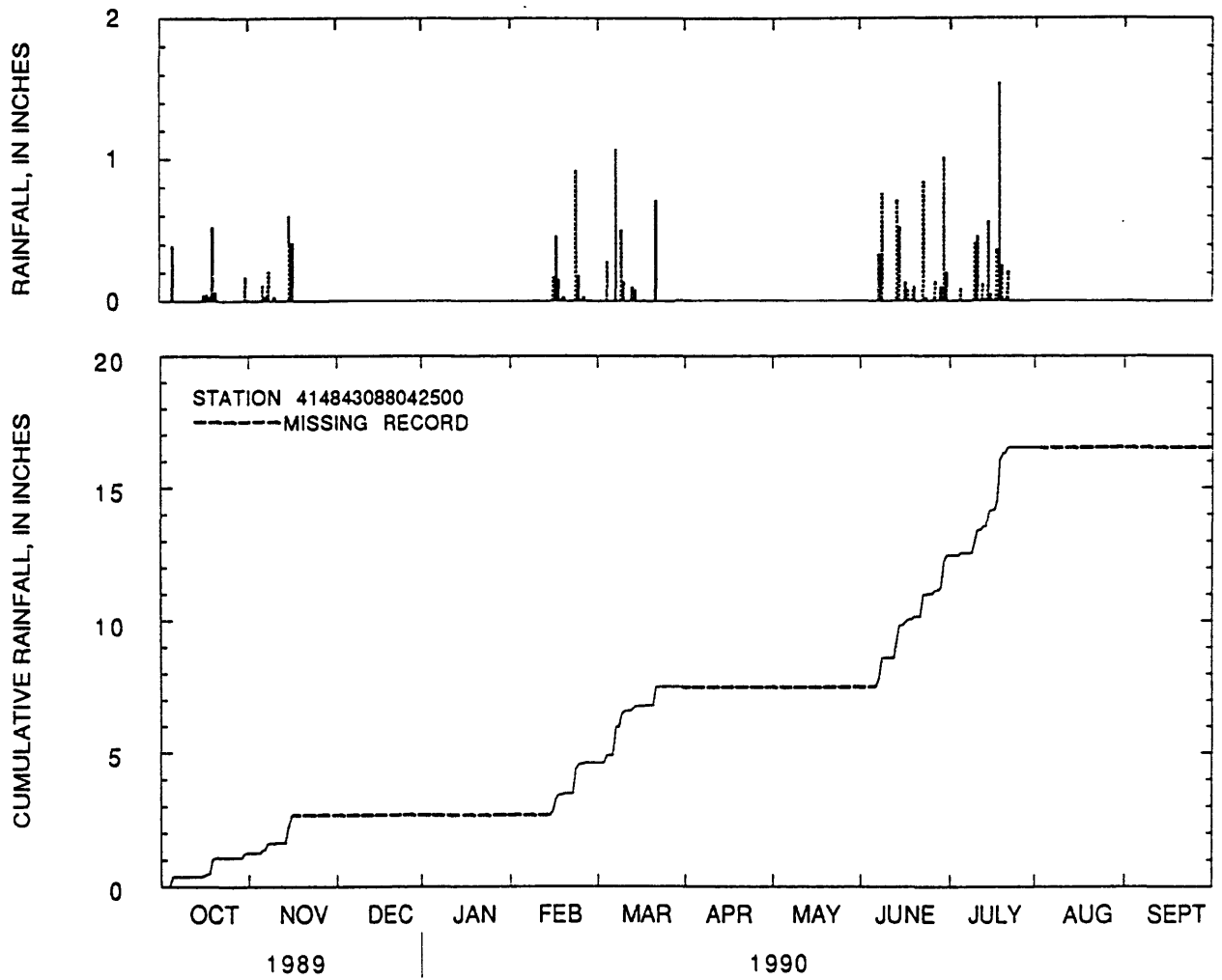
Figure 40.--Daily rainfall totals and cumulative rainfall at Morton Arboretum near Lisle, Illinois, water year 1989.

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	--	--	0.00	0.00	2.28
2	--	--	--	--	--	--	--	--	--	.59	.00	.00
3	--	--	--	--	--	--	--	--	0.15	.00	.01	.00
4	--	--	--	--	--	--	--	--	.00	.00	.19	.08
5	--	--	--	--	--	--	--	--	.00	.00	.32	.00
6	--	--	--	--	--	--	--	--	.00	.00	.00	1.01
7	--	--	--	--	--	--	--	--	.00	.00	.00	.01
8	--	--	--	--	--	--	--	--	m	.00	.07	.02
9	--	--	--	--	--	--	--	--	m	.00	.14	.48
10	--	--	--	--	--	--	--	--	m	.00	.00	.00
11	--	--	--	--	--	--	--	--	m	.67	.01	.00
12	--	--	--	--	--	--	--	--	m	.06	1.38	.00
13	--	--	--	--	--	--	--	--	m	.00	.00	.42
14	--	--	--	--	--	--	--	--	p.00	.00	.15	.00
15	--	--	--	--	--	--	--	--	.00	.00	.06	.00
16	--	--	--	--	--	--	--	--	.00	.00	.00	.00
17	--	--	--	--	--	--	--	--	.00	.00	.00	.00
18	--	--	--	--	--	--	--	--	.00	1.64	.00	.00
19	--	--	--	--	--	--	--	--	.00	.53	.23	.00
20	--	--	--	--	--	--	--	--	.00	.19	.02	.00
21	--	--	--	--	--	--	--	--	.00	.51	.00	.00
22	--	--	--	--	--	--	--	--	.00	.00	.24	.00
23	--	--	--	--	--	--	--	--	.02	.00	.01	.00
24	--	--	--	--	--	--	--	--	.00	.00	.00	.00
25	--	--	--	--	--	--	--	--	.00	.00	.00	.00
26	--	--	--	--	--	--	--	--	.00	.09	.01	.00
27	--	--	--	--	--	--	--	--	.01	.02	.00	.00
28	--	--	--	--	--	--	--	--	.00	.00	.22	.00
29	--	--	--	--	--	--	--	--	.00	.89	.05	.00
30	--	--	--	--	--	--	--	--	.00	.06	.00	.00
31	--	--	--	--	--	--	--	--	--	.00	.20	--
Total	--	--	--	--	--	--	--	--	--	5.25	3.31	4.30

m Missing record.

p Partial record.



414843088042500 Morton Arboretum near Lisle, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	m	m	m	0.00	m	m	m	0.00	p0.00	m
2	.00	.00	m	m	m	.00	m	m	m	.00	m	m
3	.00	.00	m	m	m	.00	m	m	m	.00	m	m
4	.00	.00	m	m	m	.00	m	m	m	.00	m	m
5	.39	.11	m	m	m	.28	m	m	m	.09	m	m
6	.00	.03	m	m	m	.00	m	m	p0.00	.00	m	m
7	.00	.21	m	m	m	.00	m	m	.33	.00	m	m
8	.00	.00	m	m	p0.00	1.07	m	m	.76	.00	m	m
9	.00	.03	m	m	.00	.00	m	m	.00	.00	m	m
10	.00	.00	m	m	.00	.50	m	m	.00	.41	m	m
11	.00	.00	m	m	.00	.14	m	m	.00	.46	m	m
12	.00	.00	m	m	.00	.00	m	m	.00	.00	m	m
13	.00	.00	m	m	.00	.00	m	m	.71	.12	m	m
14	.00	.60	m	m	.17	.10	m	m	.52	.01	m	m
15	.00	.41	m	m	.46	.08	m	m	.00	.56	m	m
16	.04	p.00	m	m	.15	.00	m	m	.13	.05	m	m
17	.05	m	m	m	.01	.00	m	m	.08	.00	m	m
18	.03	m	m	m	.03	.01	m	m	.00	.36	m	m
19	.52	m	m	m	.00	.00	m	m	.10	1.54	m	m
20	.06	m	m	m	.00	.00	m	m	.00	.25	m	m
21	.00	m	m	m	.00	.00	m	m	.00	.01	m	m
22	.00	m	m	m	.92	.71	m	m	.84	.21	m	m
23	.00	m	m	m	.18	.00	m	m	.02	.00	m	m
24	.00	m	m	m	.01	.00	m	m	.00	.00	m	m
25	.00	m	m	m	.03	.00	m	m	.00	.00	m	m
26	.00	m	m	m	.00	.00	m	m	.14	.00	m	m
27	.00	m	m	m	.00	.00	m	m	.00	.00	m	m
28	.00	m	m	m	.00	.00	m	m	.10	.00	m	m
29	.00	m	m	m	--	m	m	m	1.01	.00	m	m
30	.17	m	m	m	--	m	m	m	.20	.00	m	m
31	.01	--	m	m	--	m	--	m	--	.00	m	--
Total	1.27	--	--	--	--	--	--	--	--	4.07	--	--

m Missing record.

p Partial record.

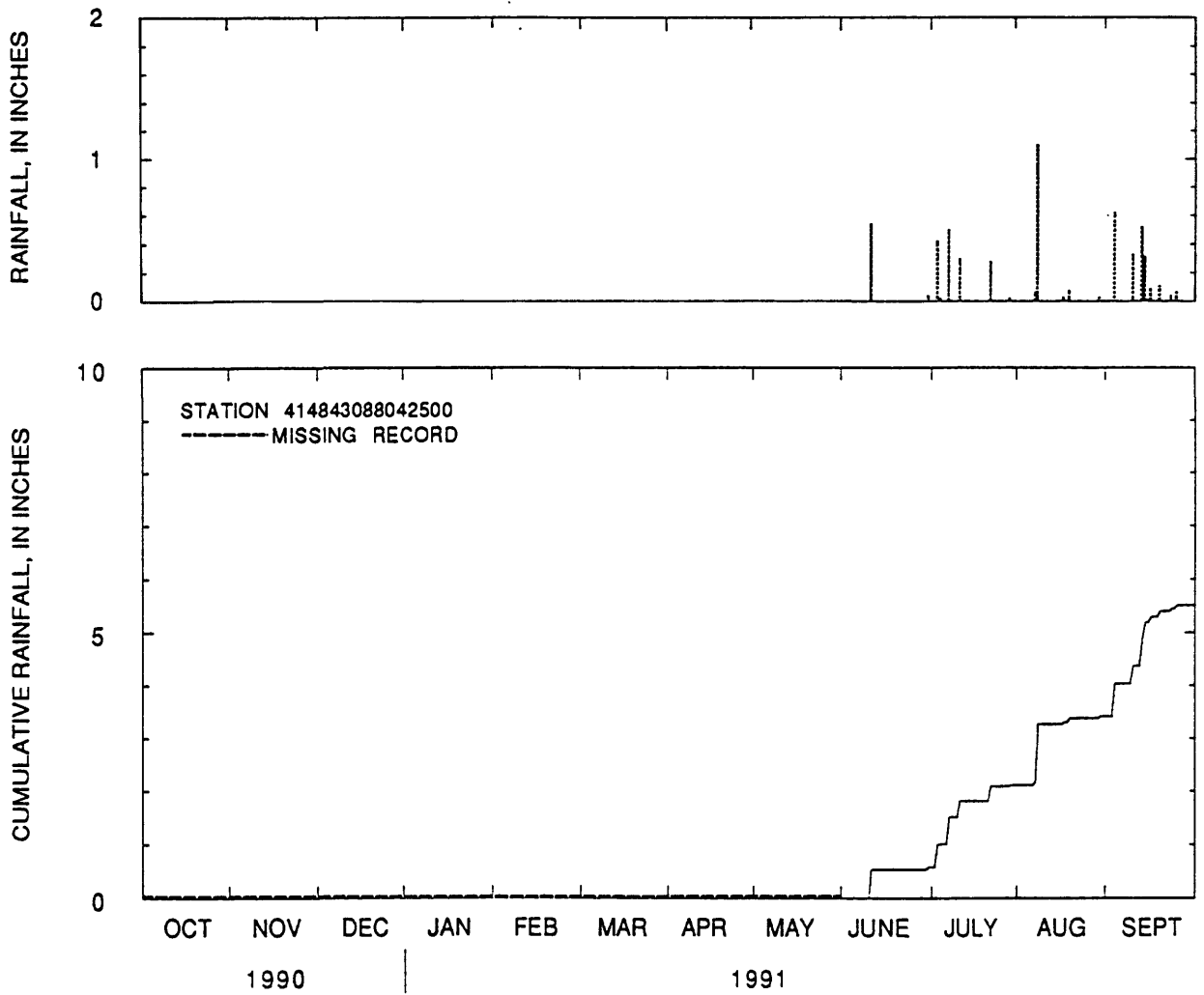


Figure 42.--Daily rainfall totals and cumulative rainfall at Morton Arboretum near Lisle, Illinois, water year 1991.

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	m	m	m	m	m	m	0.00	0.00	0.00	0.00
2	m	m	m	m	m	m	m	m	.00	.00	.00	.00
3	m	m	m	m	m	m	m	m	.00	.42	.00	.62
4	m	m	m	m	m	m	m	m	.00	.02	.00	.00
5	m	m	m	m	m	m	m	m	.00	.00	.00	.00
6	m	m	m	m	m	m	m	m	.00	.00	.00	.00
7	m	m	m	m	m	m	m	m	.00	.50	.06	.00
8	m	m	m	m	m	m	m	m	.00	.00	1.10	.00
9	m	m	m	m	m	m	m	m	.00	.00	.00	.33
10	m	m	m	m	m	m	m	m	.00	.00	.00	.00
11	m	m	m	m	m	m	m	m	.54	.30	.00	.00
12	m	m	m	m	m	m	m	m	.00	.00	.00	.52
13	m	m	m	m	m	m	m	m	.00	.00	.00	.31
14	m	m	m	m	m	m	m	m	.00	.00	.00	.01
15	m	m	m	m	m	m	m	m	.00	.00	.00	.09
16	m	m	m	m	m	m	m	m	.00	.00	.00	.00
17	m	m	m	m	m	m	m	m	.00	.00	.03	.00
18	m	m	m	m	m	m	m	m	.00	.00	.00	.11
19	m	m	m	m	m	m	m	m	.00	.00	.08	.00
20	m	m	m	m	m	m	m	m	.00	.00	.00	.00
21	m	m	m	m	m	m	m	m	.00	.00	.00	.00
22	m	m	m	m	m	m	m	m	.00	.28	.00	.04
23	m	m	m	m	m	m	m	m	.00	.00	.00	.00
24	m	m	m	m	m	m	m	m	.00	.00	.00	.07
25	m	m	m	m	m	m	m	m	.00	.00	.00	.00
26	m	m	m	m	m	m	m	m	.00	.00	.00	.00
27	m	m	m	m	m	m	m	m	.00	.00	.00	.00
28	m	m	m	m	m	m	m	m	.00	.00	.00	.00
29	m	m	m	m	--	m	m	m	.00	.02	.03	.00
30	m	m	m	m	--	m	m	p0.00	.04	.00	.00	.00
31	m	--	m	m	--	m	--	.00	--	.00	.00	--
Total	--	--	--	--	--	--	--	--	0.58	1.54	1.30	2.10

m Missing record.

p Partial record.

National Accelerator Laboratory near West Chicago, Illinois

Site identifier.--11

Station number.--415131088143600

Location.--Latitude 41°51'31", longitude 88°14'36", in NW1/4SW1/4SW1/4 sec.17, T.39 N., R.9 E., Du Page County, on the east side of McChesney Road, just south of the Burlington Northern Railroad tracks near West Chicago (Naperville 7.5-minute quadrangle).

To reach gage.--From east: From the intersection of Batavia Road and State Highway 59, drive west on Batavia Road through the Fermilab East Entrance Gate to Eola Road. Turn north on Eola Road, and drive approximately 1.0 mi to McChesney Road. Turn north on McChesney Road and proceed approximately 0.5 mi to the McChesney Road Gate. The rain gage is located on the east side of McChesney Road, adjacent to the guard shack.

From west: From the intersection of Farnsworth Road and Wilson Road, drive east on Wilson Road through the Fermilab Wilson Road Entrance Gate to McChesney Road. Turn north on McChesney Road and proceed approximate 0.5 mi to the McChesney Road Gate. The rain gage is located on the east side of McChesney Road, adjacent to the guard shack.

Drainage basin.--Kress Creek.

Gage.--A 12-in.-diameter, unheated, tipping-bucket rain gage mounted on a wooden post approximately 4 ft above the ground. An electronic data logger housed inside a weatherproof electrical enclosure is mounted on the wooden post below the rain gage.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--April 5, 1989, to present. Periods of missing record exist because of equipment-related problems.

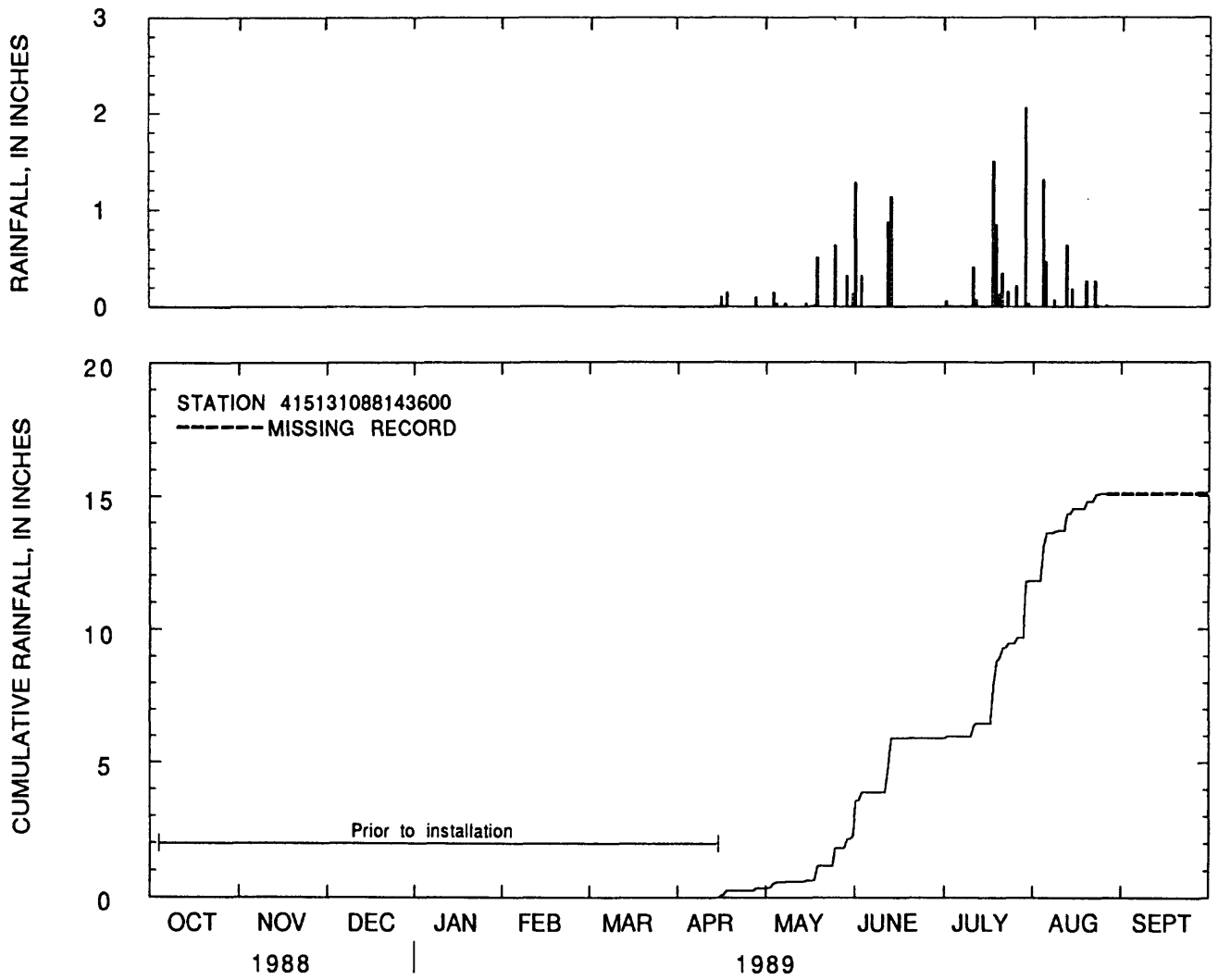


Figure 43.--Daily rainfall totals and cumulative rainfall at National Accelerator Laboratory near West Chicago, Illinois, water year 1989.

415131088143600 National Accelerator Laboratory near West Chicago,
Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	--	0.00	1.28	0.00	0.00	m
2	--	--	--	--	--	--	--	.01	.00	.06	.00	m
3	--	--	--	--	--	--	--	.00	.32	.00	.00	m
4	--	--	--	--	--	--	--	.15	.00	.00	1.31	m
5	--	--	--	--	--	--	p0.00	.04	.00	.00	.47	m
6	--	--	--	--	--	--	.00	.00	.00	.00	.00	m
7	--	--	--	--	--	--	.00	.00	.00	.00	.00	m
8	--	--	--	--	--	--	.00	.04	.00	.00	.08	m
9	--	--	--	--	--	--	.00	.00	.00	.00	.01	m
10	--	--	--	--	--	--	.00	.00	.00	.00	.00	m
11	--	--	--	--	--	--	.00	.00	.00	.41	.01	m
12	--	--	--	--	--	--	.00	.00	.88	.08	.64	m
13	--	--	--	--	--	--	.00	.00	1.14	.00	.01	m
14	--	--	--	--	--	--	.00	.00	.00	.00	.19	m
15	--	--	--	--	--	--	.00	.04	.00	.00	.00	m
16	--	--	--	--	--	--	.11	.00	.00	.00	.00	m
17	--	--	--	--	--	--	.01	.00	.00	.00	.00	m
18	--	--	--	--	--	--	.15	.02	.00	1.50	.00	m
19	--	--	--	--	--	--	.00	.51	.00	.86	.27	m
20	--	--	--	--	--	--	.00	.00	.00	.14	.00	m
21	--	--	--	--	--	--	.00	.00	.00	.35	.00	m
22	--	--	--	--	--	--	.00	.00	.00	.00	.27	m
23	--	--	--	--	--	--	.00	.00	.00	.16	.02	m
24	--	--	--	--	--	--	.00	.00	.00	.00	.00	m
25	--	--	--	--	--	--	.00	.65	.00	.00	.00	m
26	--	--	--	--	--	--	.00	.00	.00	.22	.02	m
27	--	--	--	--	--	--	.00	.00	.00	.00	.00	m
28	--	--	--	--	--	--	.10	.00	.00	.00	m	m
29	--	--	--	--	--	--	.00	.33	.00	2.06	m	m
30	--	--	--	--	--	--	.00	.00	.00	.04	m	m
31	--	--	--	--	--	--	--	.14	--	.00	m	--
Total	--	--	--	--	--	--	--	1.93	3.62	5.88	--	--

m Missing record.
p Partial record.

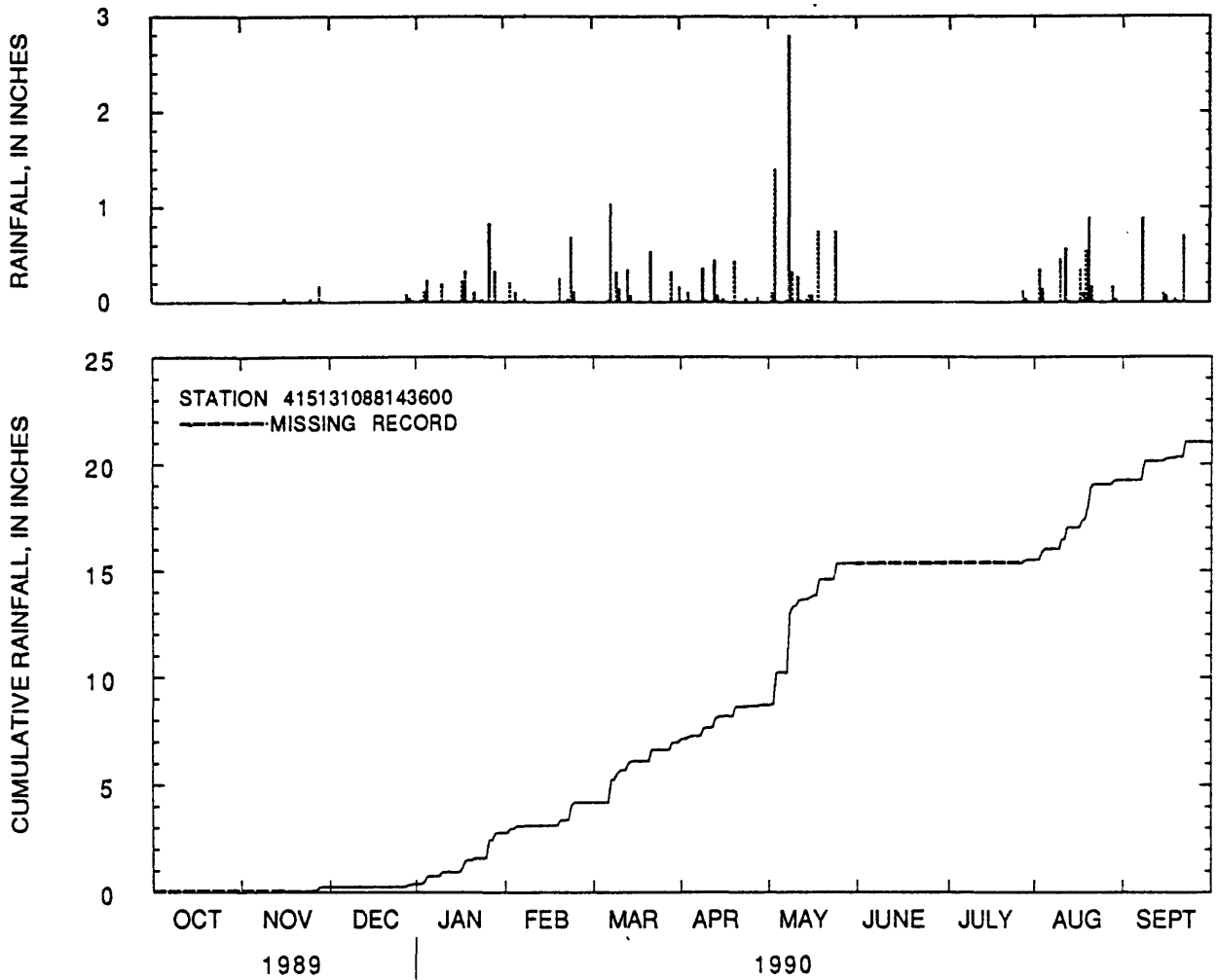


Figure 44.--Daily rainfall totals and cumulative rainfall at National Accelerator Laboratory near West Chicago, Illinois, water year 1990.

415131088143600 National Accelerator Laboratory near West Chicago,
Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	0.00	0.00	0.20	0.00	0.16	0.00	m	m	0.00	0.00
2	m	m	.00	s.02	.00	.00	.01	.00	m	m	.00	.00
3	m	m	.00	s.11	s.10	.00	.01	.10	m	m	.34	.00
4	m	m	.00	s.23	.00	.00	.10	1.40	m	m	.14	.00
5	m	m	.00	.00	.00	.00	.01	.01	m	m	.00	.00
6	m	m	.00	.00	.03	.00	.00	.00	m	m	.00	.00
7	m	m	.00	.00	.00	s.02	.00	.00	m	m	.00	.88
8	m	m	.00	.00	.00	1.03	.00	.02	m	m	.00	.00
9	m	m	.00	.19	.00	.00	.36	2.80	m	m	.00	.00
10	m	m	.00	.00	.00	.32	.02	.32	m	m	.45	.00
11	m	m	.00	.01	.00	.14	.00	.00	m	m	.00	.00
12	m	m	.00	.00	.00	.00	.00	.27	m	m	.56	.00
13	m	m	.00	.00	.00	.00	.44	.02	m	m	.00	.00
14	m	m	.00	.00	.00	.34	.07	.00	m	m	.00	.09
15	m	p0.04	.00	.00	.00	.07	.01	.03	m	m	.00	.07
16	m	.00	.00	.22	.00	.00	.03	.08	m	m	.00	.00
17	m	.00	.00	.33	s.01	.00	.00	.08	m	m	.34	.00
18	m	.00	.00	.00	s.25	s.01	.00	.00	m	m	.10	.04
19	m	.00	.00	.00	.00	.00	.00	.75	m	m	.54	.01
20	m	.00	.00	.10	.00	.00	.43	.01	m	m	.89	.00
21	m	.00	.00	.01	s.03	.00	.00	.00	m	m	.17	.70
22	m	.00	.00	.00	s.68	.53	.00	.00	m	m	.00	.00
23	m	.00	.00	s.02	.11	.00	.00	.00	m	m	.00	.00
24	m	s.03	.00	.00	.00	.00	.04	.00	m	m	.00	.00
25	m	.00	.00	s.83	.00	.00	.00	.75	m	p0.00	.00	.00
26	m	.00	.00	.00	.00	.00	.00	.00	m	.00	.00	.00
27	m	.17	.00	s.33	.00	.00	.00	.00	m	.00	.00	.00
28	m	.01	s.08	.00	.00	.00	.05	.00	m	.12	.16	.00
29	m	.00	s.04	.00	--	.32	.00	.00	m	.04	.03	.00
30	m	.00	s.01	.00	--	.00	.00	.00	m	.01	.00	.00
31	m	--	.00	.00	--	.01	--	p.00	--	.00	.00	--
Total	--	--	0.13	2.40	1.41	2.79	1.74	--	--	--	3.72	1.79

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

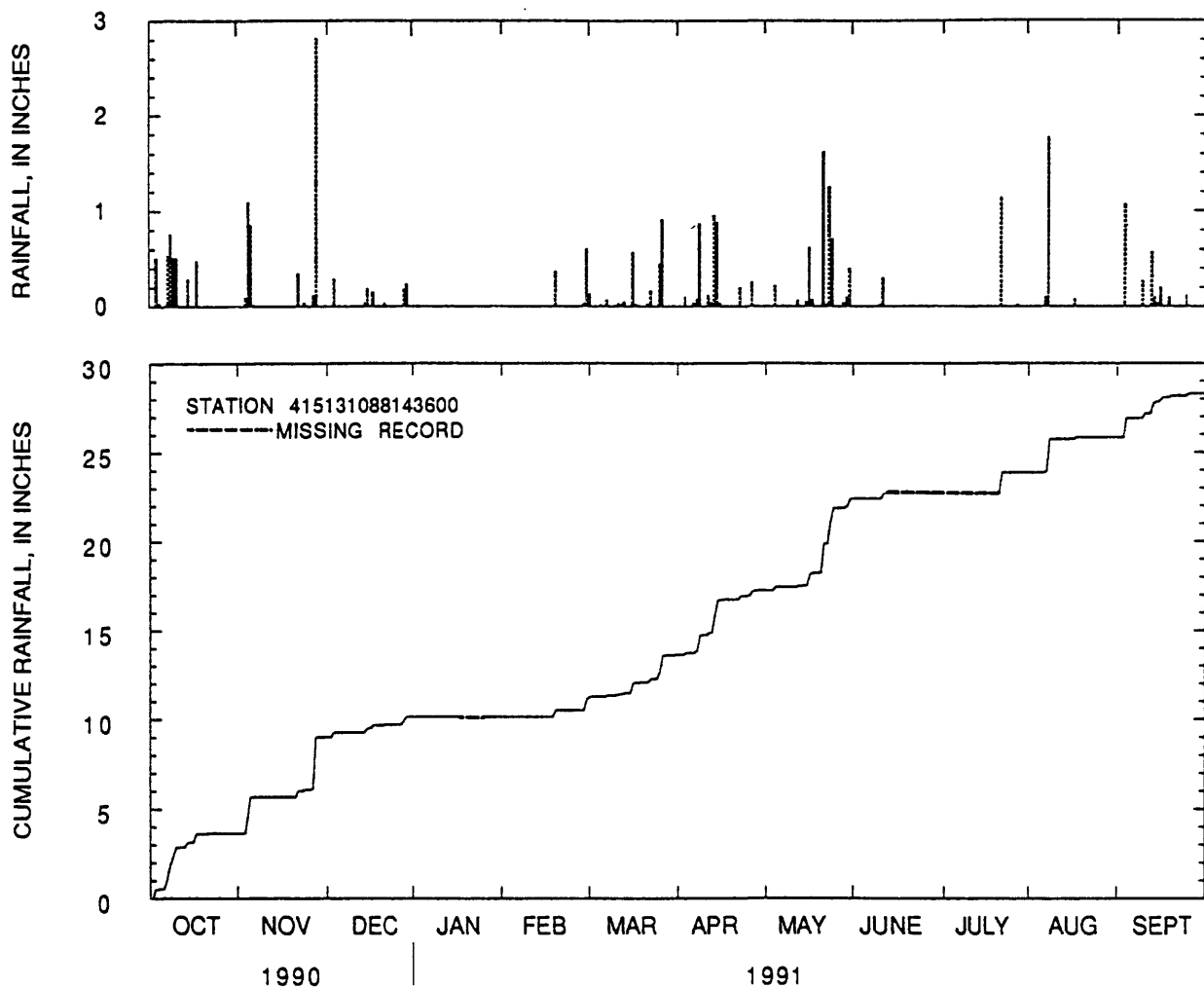


Figure 45.--Daily rainfall totals and cumulative rainfall at National Accelerator Laboratory near West Chicago, Illinois, water year 1991.

415131088143600 National Accelerator Laboratory near West Chicago,
Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.
1	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	m	0.00	0.00
2	.00	.00	.00	.00	.00	.13	.00	.00	.00	m	.00	.00
3	.51	.09	.29	.00	.00	.00	.00	.00	.00	m	.00	1.07
4	.03	1.09	.00	.00	.00	.00	.11	.00	.00	m	.00	.00
5	.00	.85	.00	.00	.00	.00	.00	.22	.00	m	.00	.00
6	.00	.01	.00	.00	.00	.02	.00	.00	.00	m	.00	.00
7	.53	.00	.00	.00	.00	.00	.04	.00	.00	m	.10	.00
8	.76	.00	.00	.00	.00	.07	.08	.01	.00	m	1.77	.00
9	.51	.01	.00	.00	.00	.00	.87	.00	.00	m	.00	.27
10	.51	.00	.00	.00	.00	.00	.00	.00	.02	m	.00	.00
11	.01	.00	.00	.00	.00	.01	.00	.00	p.30	m	.00	.00
12	.00	.00	.00	.00	.00	s.03	.12	.00	m	m	.00	.57
13	.00	.00	.00	.00	.00	s.02	.04	.06	m	m	.00	.10
14	.29	.00	s.04	.00	.00	s.05	.95	.00	m	m	.00	.03
15	.00	.00	.19	m	.00	.00	.88	.00	m	m	.00	.20
16	.00	.00	.00	m	.00	.00	.03	.05	m	m	.00	.00
17	.48	.00	.15	m	.00	.57	.00	.62	m	p0.00	.08	.00
18	.00	.00	.00	m	s.37	.02	.00	.07	m	.00	.00	.10
19	.00	.00	.00	m	.00	.01	.00	.00	m	.00	.00	.00
20	.00	.00	.00	m	.00	.00	.00	.00	m	.00	.00	.00
21	.01	.34	.04	.00	.00	.00	.00	.00	m	.00	.00	.00
22	.00	.00	.00	.00	.00	.03	.00	1.62	m	1.14	.00	.01
23	.00	.04	.00	.00	.00	.17	.20	.02	m	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	1.25	m	.00	.00	.12
25	.00	.00	.00	.00	.00	.00	.00	.71	m	.00	.00	.01
26	.00	.12	.00	.00	.00	.45	.00	.00	m	.00	.00	.00
27	.00	2.81	.00	.00	.00	.91	.26	.00	m	.00	.00	.00
28	.00	.00	.18	.00	s.03	.00	.01	.00	m	.02	.00	.00
29	.00	.00	.24	.00	--	.00	.00	.04	m	.00	.00	.00
30	.00	.00	.00	.00	--	.00	.00	.10	m	.00	.00	.00
31	.00	--	.00	.00	--	s.01	--	.40	--	.00	.00	--
Total	3.64	5.36	1.13	--	0.40	3.11	3.59	5.17	--	--	1.95	2.48

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

Du Page County Airport near St. Charles, Illinois

Site identifier.--12

Station number.--415457088150600

Location.--Latitude 41°54'57", longitude 88°15'06", in NW1/4SW1/4SE1/4 sec.30, T.40 N., R 9 E., Du Page County, on the north side of the airport service road, approximately 0.2 mi west of Keil Street near St. Charles (Geneva 7.5-minute quadrangle).

To reach gage.--From east: From the intersection of State Highway 64 and State Highway 59, drive west on State Highway 64 approximately 2.1 mi to Keil Street. Turn left on Keil Street and drive approximately 0.4 mi to the airport service road. Turn right on the airport service road and proceed approximately 0.2 mi. The rain gage is located on the north side of the service road, opposite the airport hangar buildings.

Drainage basin.--Kress Creek.

Gage.--A 12-in.-diameter, unheated, tipping-bucket rain gage mounted on a 4-in.-diameter steel post approximately 4 ft above the ground. An electronic data logger housed inside a weatherproof electrical enclosure is mounted on the steel post below the rain gage.

Accuracy.--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record.--February 20, 1986, to present. Periods of missing record exist because of equipment-related problems.

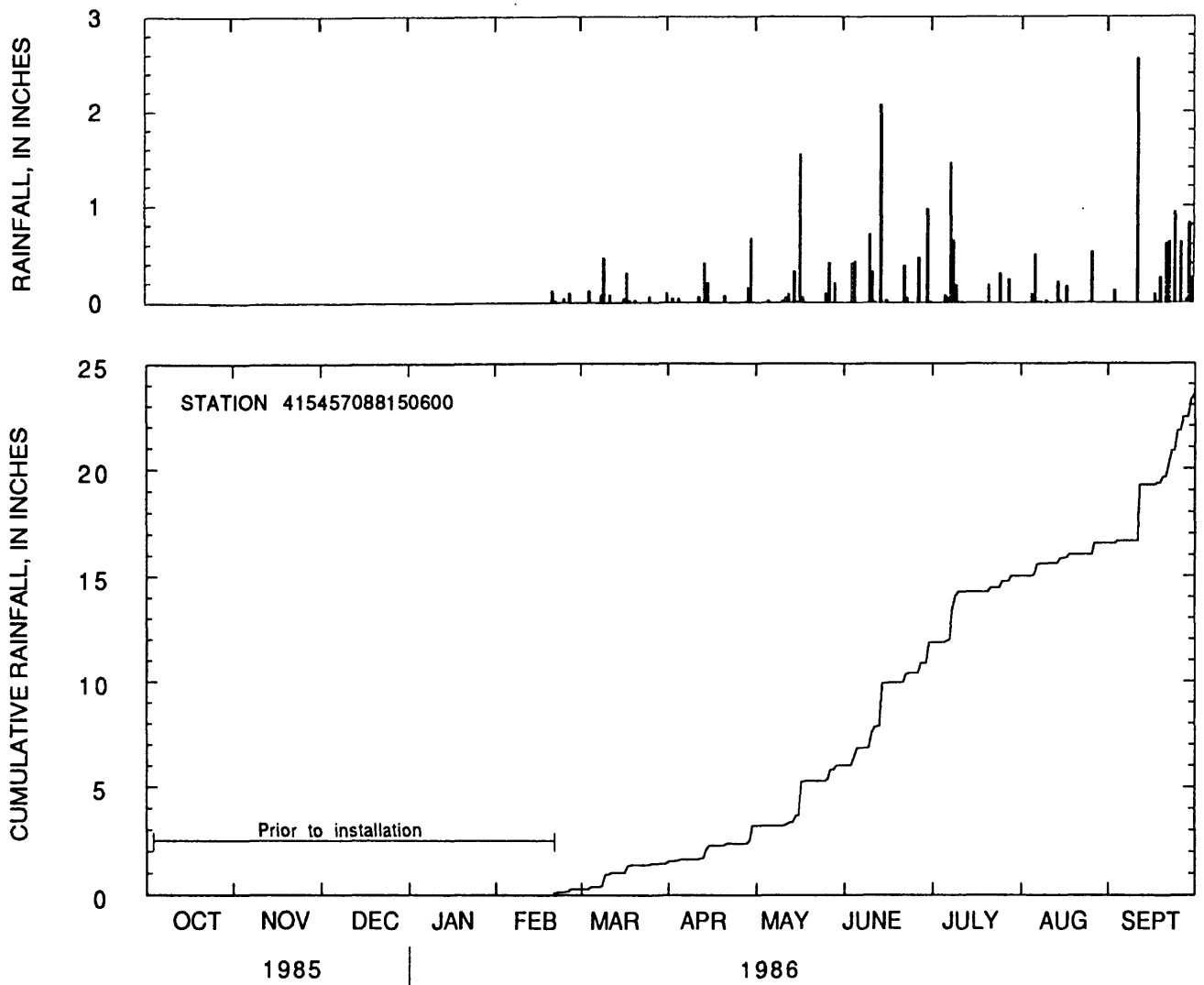


Figure 46.--Daily rainfall totals and cumulative rainfall at Du Page County Airport near St. Charles, Illinois, water year 1986.

Rainfall, in inches, water year October 1985 to September 1986
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	0.00	0.10	0.00	0.00	0.01	0.00	0.00
2	--	--	--	--	--	.00	.00	.00	.00	.00	.00	.00
3	--	--	--	--	--	.00	.04	.00	.00	.00	.00	.13
4	--	--	--	--	--	.00	.00	.00	.40	.00	.00	.00
5	--	--	--	--	--	.12	.04	.00	.42	.00	.09	.00
6	--	--	--	--	--	.00	.00	.02	.00	.08	.50	.00
7	--	--	--	--	--	.00	.00	.00	.00	.06	.01	.00
8	--	--	--	--	--	.00	.00	.00	.00	1.45	.01	.00
9	--	--	--	--	--	.08	.00	.00	.00	.64	.00	.00
10	--	--	--	--	--	.46	.00	.00	.71	.18	.02	.00
11	--	--	--	--	--	.00	.00	.02	.32	.01	.00	2.57
12	--	--	--	--	--	.08	.06	.05	.01	.01	.00	.00
13	--	--	--	--	--	.00	.00	.09	.00	.00	.00	.00
14	--	--	--	--	--	.00	.40	.00	2.07	.00	.22	.00
15	--	--	--	--	--	.00	.20	.32	.00	.00	.02	.00
16	--	--	--	--	--	.00	.00	.01	.03	.00	.00	.00
17	--	--	--	--	--	.04	.00	1.54	.00	.00	.17	.09
18	--	--	--	--	--	.30	.00	.06	.00	.00	.00	.01
19	--	--	--	--	--	.02	.00	.00	.00	.00	.00	.26
20	--	--	--	--	0.12	.00	.00	.00	.00	.00	.00	.00
21	--	--	--	--	s.02	.02	.07	.00	.00	.18	.00	.61
22	--	--	--	--	.00	.00	.00	.00	.38	.00	.00	.63
23	--	--	--	--	.00	.00	.00	.00	.05	.00	.00	.00
24	--	--	--	--	s.04	.00	.00	.00	.00	.00	.00	.94
25	--	--	--	--	.00	.00	.00	.00	.00	.30	.01	.00
26	--	--	--	--	s.10	.06	.00	.10	.00	.00	.52	.62
27	--	--	--	--	.00	.00	.00	.41	.47	.00	.00	.00
28	--	--	--	--	.00	.00	.01	.00	.00	.24	.00	.04
29	--	--	--	--	--	.00	.15	.20	.00	.00	.00	.82
30	--	--	--	--	--	.00	.66	.00	.97	.00	.00	.26
31	--	--	--	--	--	.00	--	.00	--	.00	.00	--
Total	--	--	--	--	--	1.18	1.73	2.82	5.83	3.16	1.57	6.98

s Snowfall-affected precipitation.

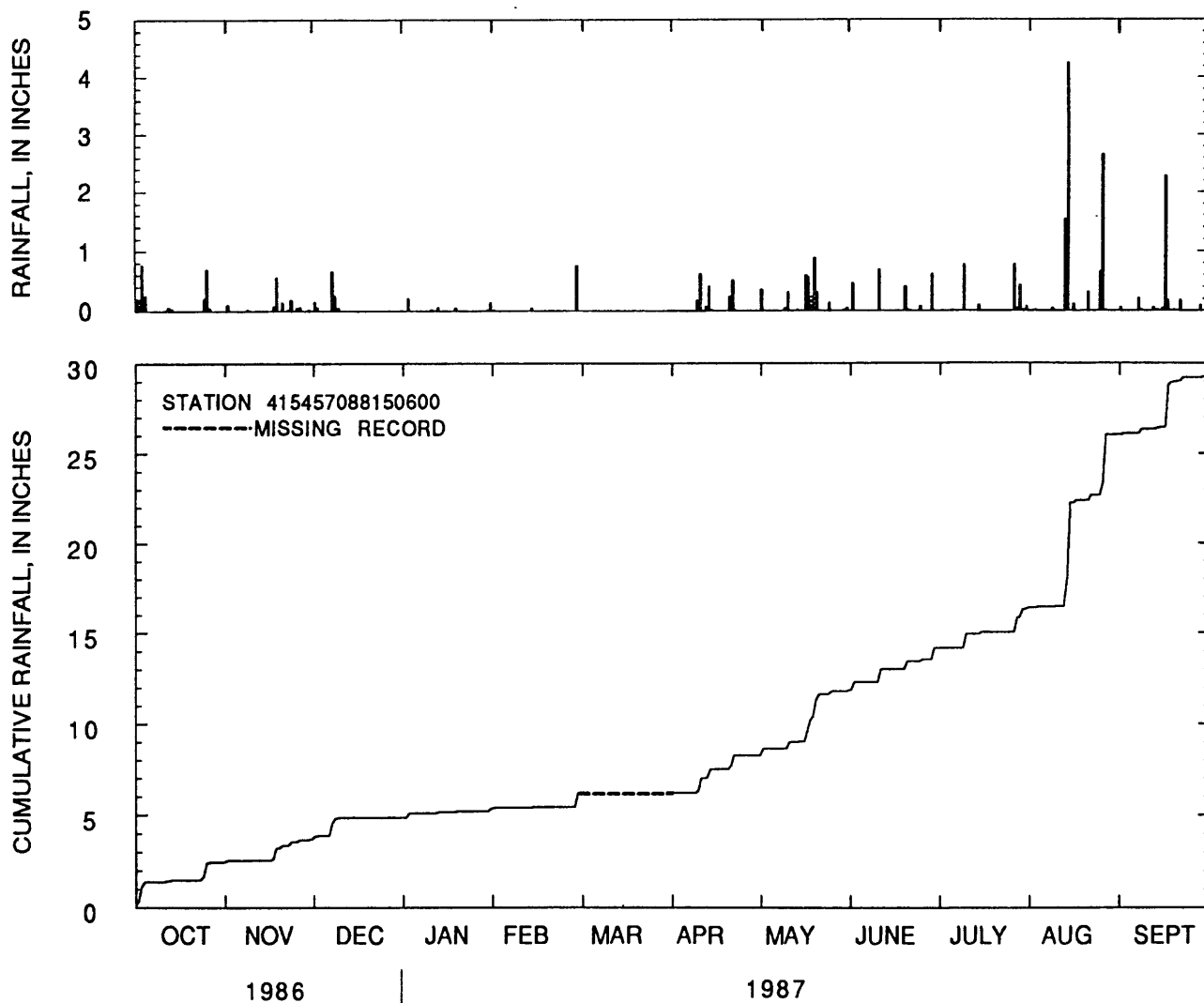


Figure 47.--Daily rainfall totals and cumulative rainfall at Du Page County Airport near St. Charles, Illinois, water year 1987.

Rainfall, in inches, water year October 1986 to September 1987
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.18	0.10	0.16	0.00	0.00	m	m	0.00	0.00	0.00	0.00	0.06
2	.21	.00	.06	s.22	.00	m	0.00	.36	.46	.00	.00	.00
3	.77	.00	.00	.00	.00	m	.00	.00	.00	.00	.02	.00
4	.26	.00	.00	.00	.00	m	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	m	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	m	.00	.00	.00	.02	.00	.00
7	.00	.00	.66	.00	.00	m	.00	.00	.00	.00	.00	.22
8	.00	.02	.26	.00	.00	m	.00	.00	.00	.00	.00	.02
9	.00	.00	.04	.00	.00	m	.00	.00	.00	.00	.04	.00
10	.00	.00	.00	s.02	.00	m	.18	.04	.00	.78	.00	.00
11	.01	.00	.00	.00	.00	m	.62	.32	.70	.00	.00	.00
12	.06	.00	.00	s.06	.00	m	.00	.00	.00	.00	.00	.06
13	.03	.00	.00	.00	.04	m	.08	.00	.00	.00	1.54	.02
14	.00	.00	.00	.00	.00	m	.42	.02	.00	.00	4.26	.02
15	.00	.00	.00	.00	.00	m	.02	.00	.00	.10	.00	.04
16	.00	.00	.00	.00	.00	m	.00	.00	.00	.00	.12	2.28
17	.00	.08	.00	.00	.00	m	.00	.60	.00	.00	.00	.18
18	.00	s.56	.00	s.04	.00	m	.00	.58	.00	.00	.00	.02
19	.00	.00	.00	.00	.00	m	.00	.24	.00	.00	.00	.02
20	.00	s.14	.00	.00	.00	m	.00	.88	.42	.00	.00	.02
21	.00	.00	.00	.00	.00	m	.24	.32	.02	.00	.32	.18
22	.00	.02	.00	.00	.00	m	.52	.00	.00	.00	.00	.00
23	.00	.18	.00	.00	.00	m	.02	.00	.00	.00	.00	.00
24	.22	.00	.00	.00	.00	m	.00	.00	.00	.00	.00	.00
25	.70	.04	.00	.00	.00	m	.00	.14	.08	.00	.66	.00
26	.04	.06	.00	.00	.00	m	.00	.00	.00	.00	2.66	.00
27	.00	.00	.00	.00	.00	m	.00	.00	.00	.78	.02	.00
28	.00	.00	.00	.00	.76	m	.00	.00	.00	.04	.00	.10
29	.00	.02	.00	s.02	--	m	.00	.00	.62	.44	.00	.00
30	.00	.00	.00	.14	--	m	.00	.02	.00	.02	.00	.00
31	.00	--	.00	.02	--	m	--	.04	--	.08	.00	--
Total	2.48	1.22	1.18	0.52	0.80	--	--	3.56	2.30	2.26	9.64	3.24

m Missing record.

s Snowfall-affected precipitation.

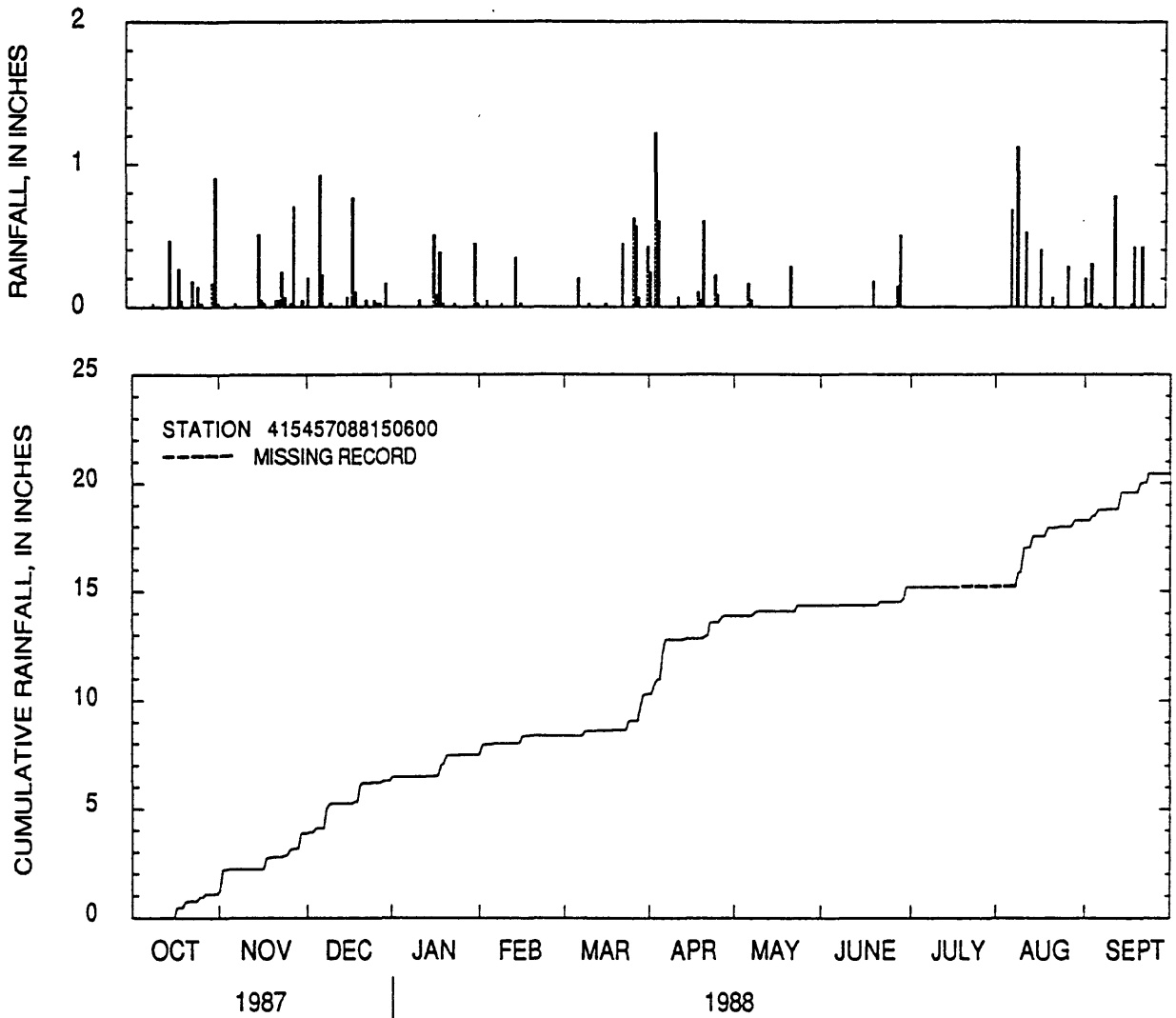


Figure 48.--Daily rainfall totals and cumulative rainfall at Du Page County Airport near St. Charles, Illinois, water year 1988.

Rainfall, in inches, water year October 1987 to September 1988
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.90	s0.04	0.00	s0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.02	.00	.00	.00	.00	.42	.00	.00	.00	.00	.20
3	.00	.00	s.20	.00	.00	.00	.24	.00	.00	.00	.00	.02
4	.00	.00	.00	.00	s.04	.00	.00	.00	.00	.00	.00	.30
5	.00	.00	.00	.00	.00	.00	1.22	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00
7	.00	.00	s.92	.00	.00	.00	.00	.00	.00	.00	.00	.02
8	.00	.02	s.22	.00	.00	.20	.00	.16	.00	.00	.68	.00
9	.00	.00	.00	.00	s.02	.00	.00	.04	.00	.00	.00	.00
10	.02	.00	.00	.00	.00	.00	.00	.00	.00	m	1.12	.00
11	.00	.00	.02	.00	.00	.00	.00	.00	.00	m	.00	.00
12	.00	.00	.00	s.04	.00	.02	.00	.00	.00	m	.00	.78
13	.00	.00	.00	.00	.00	.00	.06	.00	.00	m	.52	.00
14	.00	.00	.00	.00	s.34	.00	.00	.00	.00	m	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	m	.00	.00
16	.46	.50	.00	.00	s.02	.00	.00	.00	.00	m	.00	.00
17	.00	.04	s.06	s.50	.00	.00	.00	.00	.00	m	.00	.00
18	.00	.02	.00	s.08	.00	s.02	.00	.00	.00	m	.40	.02
19	.26	.00	s.76	s.38	.00	.00	.00	.00	.00	m	.00	.42
20	.04	.00	s.10	s.02	.00	.00	.10	.00	.18	m	.00	.00
21	.00	.00	.00	.00	.00	.00	.04	.00	.00	m	.00	.00
22	.00	.04	.00	.00	.00	.00	.60	.00	.00	m	.06	.42
23	.00	.04	.00	.00	.00	.00	.00	.28	.00	m	.00	.00
24	.18	.24	s.04	s.02	.00	.44	.00	.00	.00	m	.00	.00
25	.00	.06	.00	.00	.00	.00	.00	.00	.00	m	.00	.00
26	.14	.00	.00	.00	.00	.00	.22	.00	.00	m	.00	.02
27	.02	.02	s.04	.00	.00	.00	.08	.00	.00	m	.28	.00
28	.00	.70	s.02	.00	.00	.62	.00	.00	.14	m	.00	.00
29	.00	.00	s.02	.00	.00	.56	.00	.00	.50	m	.00	.00
30	.00	.00	.00	.00	--	.06	.00	.00	.00	m	.00	.00
31	.16	--	s.16	s.44	--	.00	--	.00	--	.00	.00	--
Total	1.28	2.60	2.60	1.48	0.44	1.92	3.58	0.48	0.82	--	3.06	2.20

m Missing record.

s Snowfall-affected precipitation.

415457088150600 Du Page County Airport near St. Charles, Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	0.10	0.00	0.00	m	m	m	m	m	0.60	m	0.00	1.46
2	.00	.00	.00	m	m	m	m	m	m	m	.00	.00
3	.00	.00	.00	m	m	m	m	p0.00	m	m	.03	.00
4	.00	.12	.00	m	m	m	m	.10	m	m	2.13	m
5	.00	s.02	.00	m	m	m	m	.00	m	m	.46	m
6	.00	.00	.00	m	m	m	m	.00	m	m	.01	m
7	.00	.02	.00	m	m	m	m	.00	m	m	.00	m
8	.00	.02	.00	m	m	m	m	.02	m	m	.11	m
9	.00	.44	.00	m	m	m	m	.00	m	m	.00	m
10	.00	.08	.00	m	m	m	m	.00	m	m	.00	m
11	.00	.00	.00	m	m	m	m	.00	m	m	.07	m
12	.00	.42	.00	m	m	m	m	.00	m	m	.00	m
13	.00	.00	.00	m	m	m	m	.00	m	p0.00	.13	m
14	.00	.00	.00	m	m	m	m	.00	m	.00	.12	m
15	.00	.50	.00	m	m	m	m	.02	m	.00	.27	m
16	.00	.20	.00	m	m	m	m	.00	m	.00	.00	m
17	.62	.00	.00	m	m	m	m	.00	m	.00	.00	m
18	.00	.00	.00	m	m	m	m	.04	m	1.93	.00	m
19	.00	.32	.00	m	m	m	m	.44	m	.53	.17	m
20	.00	.00	m	m	m	m	m	.00	m	.09	.00	m
21	.00	.00	m	m	m	m	m	.00	m	.21	.00	m
22	.00	.00	m	m	m	m	m	.00	m	.00	.05	m
23	.00	.00	m	m	m	m	m	.00	m	.06	.02	m
24	.00	.00	m	m	m	m	m	.14	m	.00	.00	m
25	.00	.00	m	m	m	m	m	.34	m	.01	.00	m
26	.00	.10	m	m	m	m	m	.00	m	.01	.02	m
27	.00	.00	m	m	m	m	m	.00	m	.01	.00	m
28	.00	.00	m	m	m	m	m	.00	m	.00	.27	m
29	.00	.00	m	m	--	m	m	.26	m	1.45	.03	m
30	.00	.00	m	m	--	m	m	.00	m	.00	.01	m
31	.00	--	m	m	--	m	--	.50	--	.00	.08	--
Total	0.72	2.24	--	--	--	--	--	--	--	--	3.98	--

m Missing record.
p Partial record.
s Snowfall-affected precipitation.

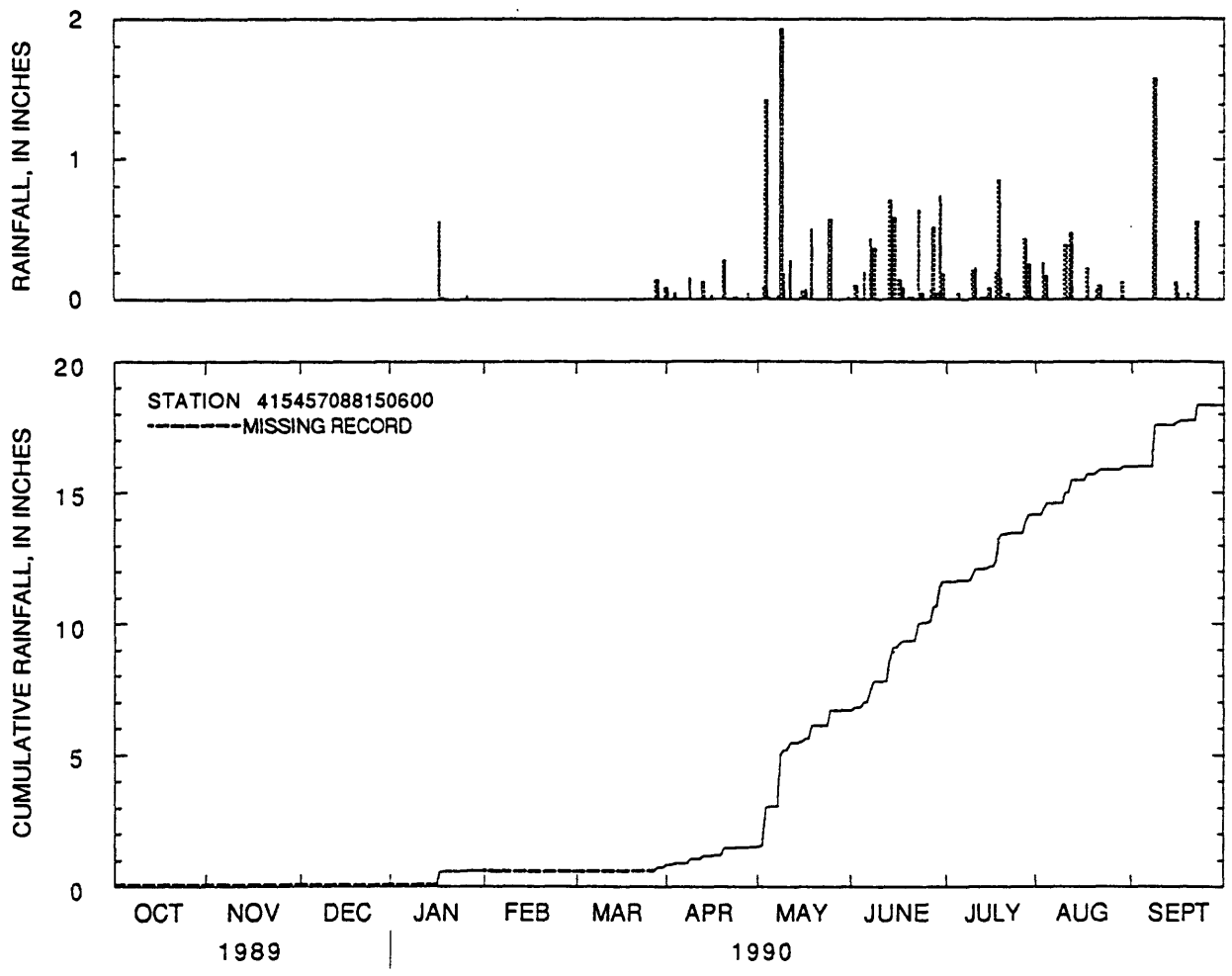


Figure 50.--Daily rainfall totals and cumulative rainfall at Du Page County Airport near St. Charles, Illinois, water year 1990.

415457088150600 Du Page County Airport near St. Charles, Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	m	m	m	m	m	m	0.09	0.00	0.00	0.00	0.00	0.00
2	m	m	m	m	m	m	.00	.00	.10	.00	.00	.00
3	m	m	m	m	m	m	.00	.08	.00	.00	.27	.00
4	m	m	m	m	m	m	.05	1.42	.00	.00	.17	.00
5	m	m	m	m	m	m	.00	.02	.20	.04	.00	.00
6	m	m	m	m	m	m	.00	.00	.00	.00	.00	.00
7	m	m	m	m	m	m	.00	.00	.43	.00	.00	1.57
8	m	m	m	m	m	m	.00	.03	.36	.00	.00	.00
9	m	m	m	m	m	m	.16	1.93	.00	.00	.00	.00
10	m	m	m	m	m	m	.00	.18	.00	.21	.40	.00
11	m	m	m	m	m	m	.00	.00	.00	.22	.00	.00
12	m	m	m	m	m	m	.00	.28	.00	.00	.47	.00
13	m	m	m	m	m	m	.12	.00	.71	.01	.00	.00
14	m	m	m	m	m	m	.00	.00	.59	.01	.00	.12
15	m	m	m	p0.00	m	m	.00	.02	.00	.02	.00	.05
16	m	m	m	.56	m	m	.03	.06	.15	.08	.00	.00
17	m	m	m	.02	m	m	.00	.07	.08	.00	.22	.00
18	m	m	m	.00	m	m	.00	.00	.00	.20	.00	.04
19	m	m	m	.00	m	m	.00	.50	.01	.85	.00	.00
20	m	m	m	.00	m	m	.28	.00	.02	.16	.07	.00
21	m	m	m	.00	m	m	.00	.00	.00	.01	.10	.56
22	m	m	m	.00	m	m	.00	.00	.64	.05	.00	.00
23	m	m	m	.00	m	m	.00	.00	.05	.00	.00	.00
24	m	m	m	.00	m	m	.01	.00	.00	.00	.00	.00
25	m	m	m	s.03	m	m	.00	.57	.00	.00	.00	.00
26	m	m	m	.00	m	m	.00	.00	.07	.00	.00	.00
27	m	m	m	.00	m	m	.00	.00	.52	.00	.00	.00
28	m	m	m	.00	m	m	.04	.00	.05	.44	.12	.00
29	m	m	m	.00	--	p0.15	.00	.00	.74	.25	.00	.01
30	m	m	m	.00	--	.00	.00	.00	.19	.01	.00	.00
31	m	--	m	m	--	.00	--	.01	--	.00	.00	--
Total	--	--	--	--	--	--	0.78	5.17	4.91	2.56	1.82	2.35

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

415457088150600 Du Page County Airport near St. Charles, Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	m	m	m	m	m	m	0.00	0.00	0.00	0.00
2	.00	.00	m	m	m	m	m	m	.00	.00	.02	.00
3	.49	.06	m	m	m	m	m	m	.00	.45	.00	.76
4	.04	.91	m	m	m	m	m	m	.00	.01	.00	.00
5	.00	.72	m	m	m	m	m	m	.00	.00	.00	.00
6	.00	.01	m	m	m	m	m	m	.00	.00	.00	.00
7	.65	.00	m	m	m	m	m	m	.00	.69	.11	.00
8	.70	.00	m	m	m	m	m	m	.00	.00	1.41	.00
9	.55	.00	m	m	m	m	m	m	.00	.00	.00	.24
10	.48	.00	m	m	m	m	m	m	.00	.00	.00	.00
11	.00	.00	m	m	m	m	m	m	.86	.27	.00	.00
12	.00	.00	m	m	m	m	m	m	.01	.00	.00	.53
13	.00	.00	m	m	m	m	m	m	.00	.00	.00	.20
14	.33	.00	m	m	m	m	m	m	.02	.00	.00	.01
15	.00	.00	m	m	m	m	m	p0.00	.00	.00	.00	.27
16	.00	.00	m	m	m	m	m	.04	.00	.00	.00	.00
17	.58	.00	m	m	m	m	m	.55	.00	.00	.12	.00
18	.00	.00	m	m	m	m	m	.06	.00	.00	.00	.09
19	.00	m	m	m	m	m	m	.00	.00	.00	.00	.00
20	.00	m	m	m	m	m	m	.00	.00	.00	.00	.00
21	.01	m	m	m	m	m	m	.01	.00	.00	.00	.00
22	.00	m	m	m	m	m	m	1.85	.00	.08	.00	.02
23	.00	m	m	m	m	m	m	.05	.00	.00	.00	.00
24	.00	m	m	m	m	m	m	1.06	.00	.00	.00	.15
25	.00	m	m	m	m	m	m	1.41	.00	.00	.00	.00
26	.00	m	m	m	m	m	m	.06	.00	.00	.00	.00
27	.00	m	m	m	m	m	m	.00	.00	.00	.00	.00
28	.00	m	m	m	m	m	m	.00	.00	.01	.07	.00
29	.00	m	m	m	--	m	m	.00	.00	.00	.01	.00
30	.00	m	m	m	--	m	m	.00	.00	.00	.00	.00
31	.00	--	m	m	--	m	--	.00	--	.00	.00	--
Total	3.83	--	--	--	--	--	--	--	0.89	1.51	1.74	2.27

m Missing record.

p Partial record.

Bloomington Lift Station at Bloomington, Illinois

Site identifier--13

Station number--415651088051900

Location--Latitude 41°56'51", longitude 88°05'19", in SW1/4SW1/4SW1/4 sec.15, T.40 N., R.10 E., Du Page County, at the Bloomington Lift Station in Bloomington (Lombard 7.5-minute quadrangle).

To reach gage--From east: From the intersection of Schick Road and Bloomington Road, drive west on Schick Road approximately 0.4 mi to Rosedale Court. Turn south onto Rosedale Court. At the end of Rosedale Court, drive east on Leslie Lane for approximately 50 ft, and then turn south onto a service road leading to the lift station. Rain gage is enclosed within the lift station, approximately 300 ft south of Leslie Lane. The contact person for this rain gage is Mike Marchi of the Village of Bloomington.

Drainage basin--East Branch Du Page River.

Gage--An 8-in.-diameter, heated, tipping-bucket rain gage mounted on a steel post approximately 6 ft above ground. The electronic data logger is housed in a weatherproof electrical enclosure.

Accuracy--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record--March 21, 1990, to present. Periods of missing record exist because of equipment-related problems.

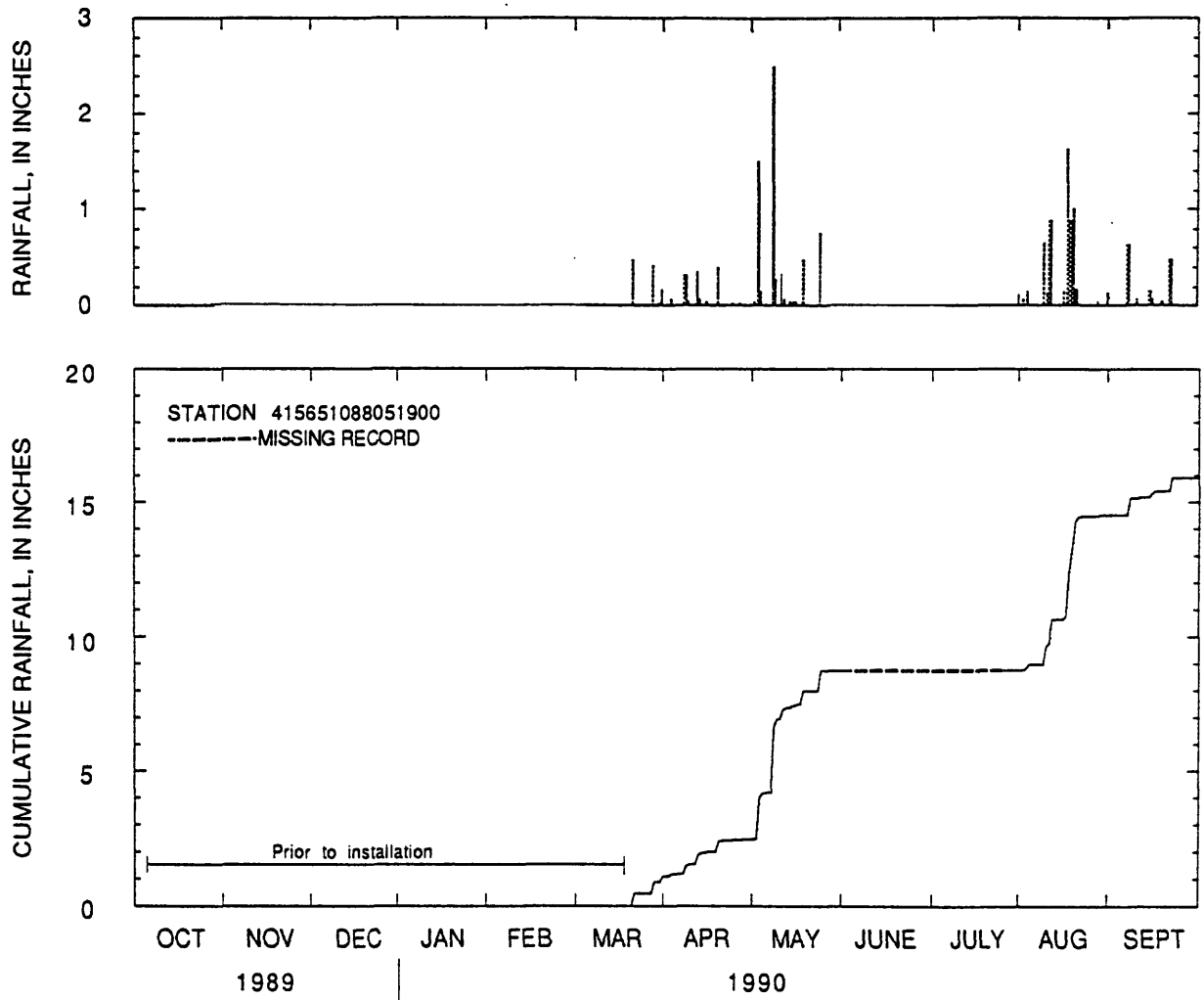


Figure 52.--Daily rainfall totals and cumulative rainfall at Bloomingdale Lift Station at Bloomingdale, Illinois, water year 1990.

415651088051900 Bloomingdale Lift Station at Bloomingdale,
Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	0.17	0.00	m	m	0.00	0.00
2	--	--	--	--	--	--	.01	.00	m	m	.00	.00
3	--	--	--	--	--	--	.00	.05	m	m	.07	.00
4	--	--	--	--	--	--	.08	1.50	m	m	.16	.00
5	--	--	--	--	--	--	.00	.16	m	m	.00	.00
6	--	--	--	--	--	--	.00	.01	m	m	.00	.00
7	--	--	--	--	--	--	.00	.00	m	m	.00	.63
8	--	--	--	--	--	--	.00	.00	m	m	.00	.00
9	--	--	--	--	--	--	.31	2.50	m	m	.00	.00
10	--	--	--	--	--	--	.05	.27	m	m	.65	.06
11	--	--	--	--	--	--	.00	.00	m	m	.13	.00
12	--	--	--	--	--	--	.00	.34	m	m	.88	.00
13	--	--	--	--	--	--	.35	.07	m	m	.00	.00
14	--	--	--	--	--	--	.08	.00	m	m	.00	.14
15	--	--	--	--	--	--	.00	.04	m	m	.00	.06
16	--	--	--	--	--	--	.04	.05	m	m	.00	.00
17	--	--	--	--	--	--	.00	.05	m	m	.14	.00
18	--	--	--	--	--	--	.00	.00	m	m	1.62	.04
19	--	--	--	--	--	--	.00	.48	m	m	.87	.00
20	--	--	--	--	--	--	.40	.00	m	m	1.00	.00
21	--	--	--	--	--	p0.00	.01	.00	m	m	.17	.49
22	--	--	--	--	--	.48	.00	.00	m	m	.01	.00
23	--	--	--	--	--	.00	.00	.00	m	m	.00	.00
24	--	--	--	--	--	.00	.01	.00	m	m	.00	.00
25	--	--	--	--	--	.00	.02	.76	m	p0.00	.00	.00
26	--	--	--	--	--	.00	.00	.00	m	.00	.00	.00
27	--	--	--	--	--	.00	.00	.00	m	.00	.00	.00
28	--	--	--	--	--	.00	.03	.00	m	.00	.05	.00
29	--	--	--	--	--	.42	.00	.00	m	.00	.00	.00
30	--	--	--	--	--	.00	.00	.00	m	.00	.00	.00
31	--	--	--	--	--	.02	--	p.00	--	.00	.00	--
Total	--	--	--	--	--	--	1.56	--	--	--	5.75	1.42

m Missing record.
p Partial record.

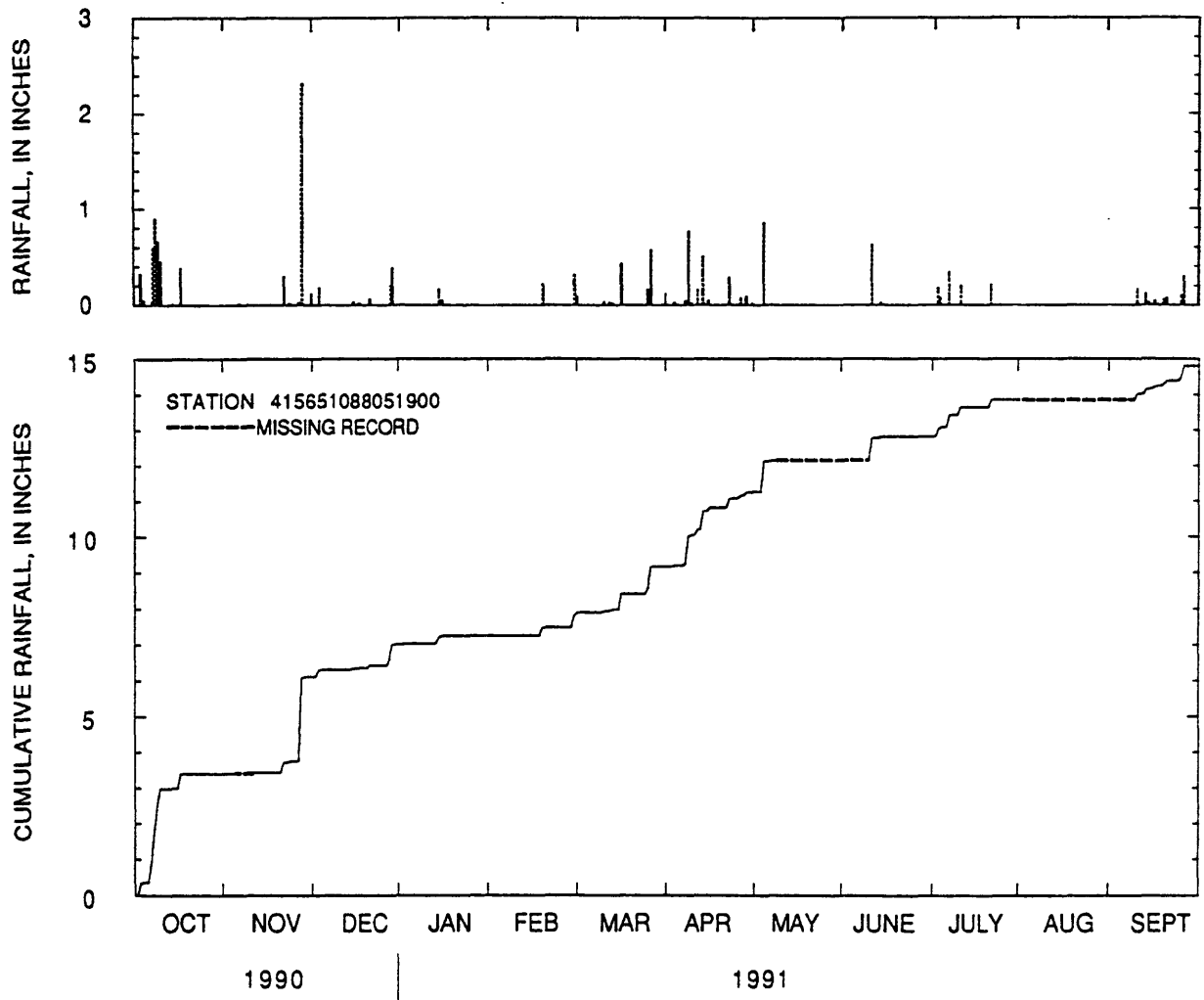


Figure 53.--Daily rainfall totals and cumulative rainfall at Bloomingdale Lift Station at Bloomingdale, Illinois, water year 1991.

415651088051900 Bloomingdale Lift Station at Bloomingdale,
Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.01	0.00	0.32	0.00	0.02	m	0.00	p0.00	m
2	.00	.00	.00	.01	.00	.09	.00	.00	m	.00	m	m
3	.33	.00	.19	.00	.00	.00	.00	.00	m	.18	m	m
4	.05	m	.00	.00	.00	.00	.03	.00	m	.08	m	p0.00
5	.00	m	.00	.00	.00	.00	.01	.86	m	.00	m	.00
6	.00	.02	.00	.00	.00	.00	.00	.01	m	.00	m	.00
7	.59	.00	.00	.00	.00	.00	.00	.00	m	.34	m	.00
8	.90	.00	.00	.00	.00	.00	.05	.01	m	.00	m	.00
9	.66	.01	.00	.00	.00	.00	.77	m	m	.00	m	.17
10	.46	.00	.00	.00	.00	.00	.02	m	m	.00	m	.01
11	.00	.00	.00	.00	.00	.04	.00	m	.63	.21	m	.00
12	.00	.00	.00	.00	.00	.00	.16	m	.00	.00	m	.12
13	.00	.00	.00	.00	.00	.03	.00	m	.00	.00	m	.03
14	.02	.00	.00	.17	.00	.02	p.51	m	.03	.00	m	.01
15	.00	.00	.04	.05	.00	.00	p.01	m	.01	.00	m	.05
16	.00	.00	.00	.00	.00	.00	.05	m	.00	.00	m	.01
17	.39	.00	.02	.00	.00	.43	.00	m	.00	.00	m	.00
18	.00	.00	.00	.00	.23	.00	.00	m	.00	.00	m	.06
19	.00	.00	.00	.00	.00	.00	.00	m	.00	.00	m	.08
20	.00	.00	.00	.00	.00	.00	.00	m	.00	.00	m	.00
21	.00	.30	.06	.00	.00	.00	.00	m	.00	.00	m	.00
22	.00	.00	.00	.00	.00	.00	.00	m	.00	.22	m	.00
23	.00	.02	.00	.00	.00	.00	.29	m	.00	.00	m	.00
24	.00	.00	.00	.00	.00	.00	.01	m	.00	.00	m	.11
25	.00	.00	.00	.00	.00	.00	.00	m	.00	.00	m	.30
26	.00	.03	.00	.00	.00	.17	.00	m	.00	.00	m	.00
27	.00	2.33	.00	.00	.00	.58	.08	m	.00	.00	m	.00
28	.00	.01	.20	.00	.00	.00	.00	m	.00	.00	m	.00
29	.00	.00	.39	.00	--	.00	.09	m	.00	.00	m	.00
30	.00	.00	.00	.00	--	.00	.00	m	.00	.00	m	.00
31	.00	--	.00	.00	--	.00	--	m	--	.00	m	--
Total	3.40	--	0.90	0.24	0.23	1.68	--	--	--	1.03	--	--

m Missing record.
p Partial record.

Elgin Wastewater Treatment Facility at Elgin, Illinois

Site identifier--14

Station number--420354088170500

Location--Latitude 42°03'54", longitude 88°17'05", in NW1/4NE1/4SE1/4 sec.2, T.41 N., R.8 E., Kane County, within the wastewater-treatment facility on the south side of the frontage road (along the south side of U.S. Highway 90), approximately 0.5 mi east of State Highway 31 in Elgin (Elgin 7.5-minute quadrangle).

To reach gage--From west: From the intersection of U.S. Highway 90 and State Highway 31, drive south on State Highway 31 approximately 0.2 mi to the stop-light at the frontage road leading east. Turn east on the frontage road and proceed approximately 0.5 mi to the wastewater-treatment-facility entrance road. Turn south and proceed to the facility office. The rain gage is located approximately 100 ft west of the main building, near the settling ponds.

Drainage basin--Fox River.

Gage--An 8-in.-diameter, unheated, tipping-bucket rain gage mounted on a wooden post approximately 4 ft above the ground. The electronic data logger is housed in a weatherproof electrical enclosure mounted on the wooden post below the rain gage.

Accuracy--The rain gage records rainfall totals in 0.01-in. increments at 5-minute intervals.

Period of record--March 22, 1989, to present. Periods of missing record exist because of equipment-related problems.

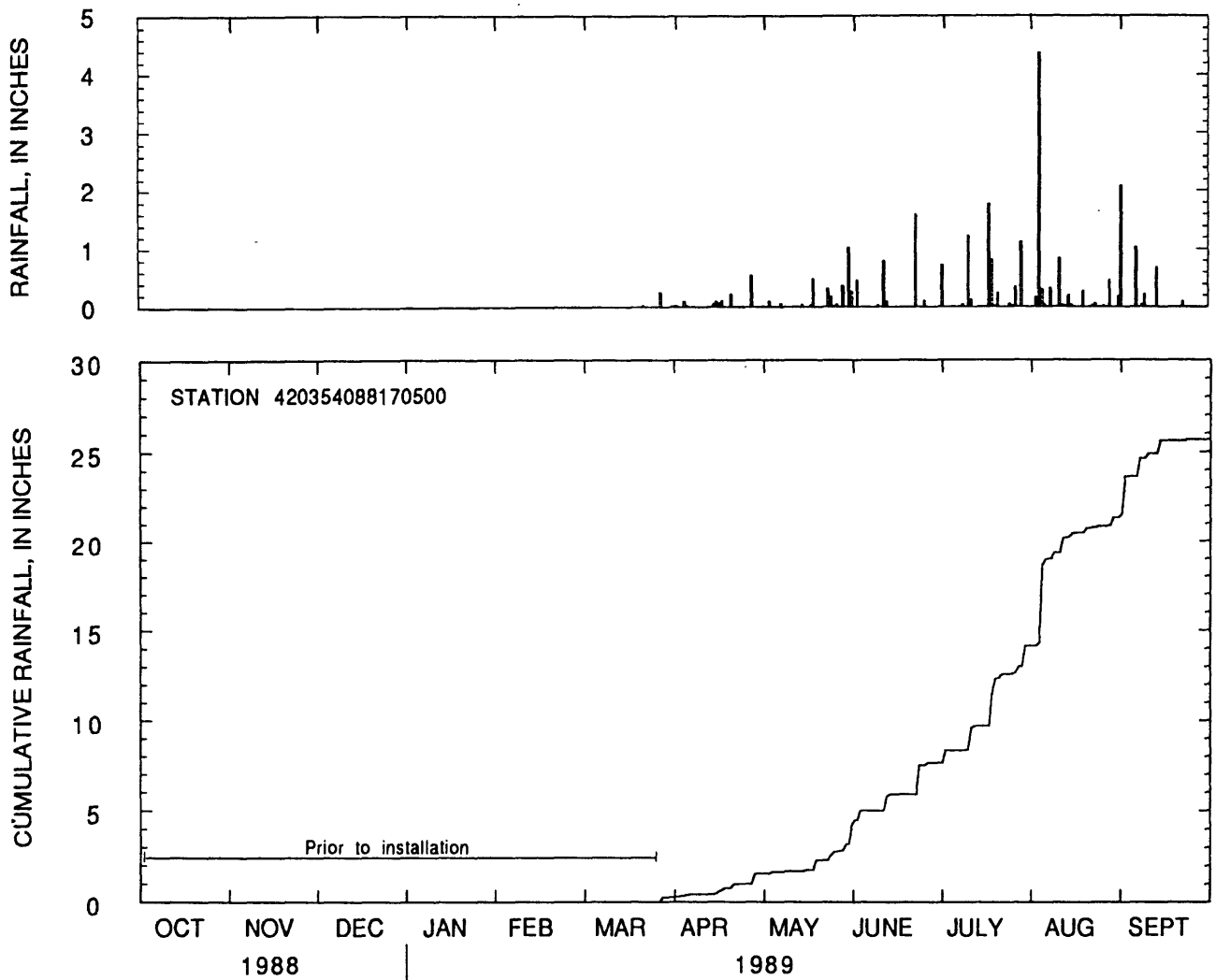


Figure 54.--Daily rainfall totals and cumulative rainfall at Elgin Wastewater Treatment Facility at Elgin, Illinois, water year 1989.

420354088170500 Elgin Wastewater Treatment Facility at Elgin,
Illinois--Continued

Rainfall, in inches, water year October 1988 to September 1989
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	--	--	--	--	--	--	0.01	0.00	0.28	0.00	0.00	2.10
2	--	--	--	--	--	--	.02	.01	.00	.72	.00	.00
3	--	--	--	--	--	--	.01	.00	.47	.00	.17	.00
4	--	--	--	--	--	--	.00	.10	.00	.00	4.37	.00
5	--	--	--	--	--	--	.10	.00	.00	.00	.30	.00
6	--	--	--	--	--	--	.02	.00	.00	.00	.05	1.02
7	--	--	--	--	--	--	.00	.00	.00	.00	.00	.00
8	--	--	--	--	--	--	.01	.06	.00	.00	.33	.04
9	--	--	--	--	--	--	.00	.00	.00	.04	.00	.22
10	--	--	--	--	--	--	.00	.00	.03	.00	.00	.00
11	--	--	--	--	--	--	.00	.00	.00	1.22	.84	.00
12	--	--	--	--	--	--	.00	.00	.80	.13	.03	.00
13	--	--	--	--	--	--	.00	.00	.09	.00	.02	.69
14	--	--	--	--	--	--	.00	.00	.00	.00	.21	.00
15	--	--	--	--	--	--	.06	.04	.00	.00	.03	.00
16	--	--	--	--	--	--	.09	.00	.00	.00	.00	.00
17	--	--	--	--	--	--	.07	.00	.00	.00	.00	.00
18	--	--	--	--	--	--	.11	.03	.00	1.77	.00	.00
19	--	--	--	--	--	--	.00	.49	.00	.82	.28	.00
20	--	--	--	--	--	--	.00	.00	.00	.02	.00	.00
21	--	--	--	--	--	--	.22	.00	.00	.24	.01	.00
22	--	--	--	--	--	p0.02	.00	.00	.00	.00	.02	.10
23	--	--	--	--	--	.00	.00	.00	1.61	.00	.06	.00
24	--	--	--	--	--	.00	.00	.32	.00	.00	.00	.00
25	--	--	--	--	--	.00	.01	.18	.00	.06	.00	.00
26	--	--	--	--	--	.00	.00	.01	.11	.02	.02	.00
27	--	--	--	--	--	.00	.00	.05	.00	.35	.00	.00
28	--	--	--	--	--	.26	.55	.00	.00	.00	.47	.00
29	--	--	--	--	--	.00	.00	.37	.00	1.12	.00	.00
30	--	--	--	--	--	.00	.00	.00	.00	.00	.00	.00
31	--	--	--	--	--	.00	--	1.02	--	.00	.19	--
Total	--	--	--	--	--	--	1.28	2.68	3.39	6.51	7.40	4.17

p Partial record.

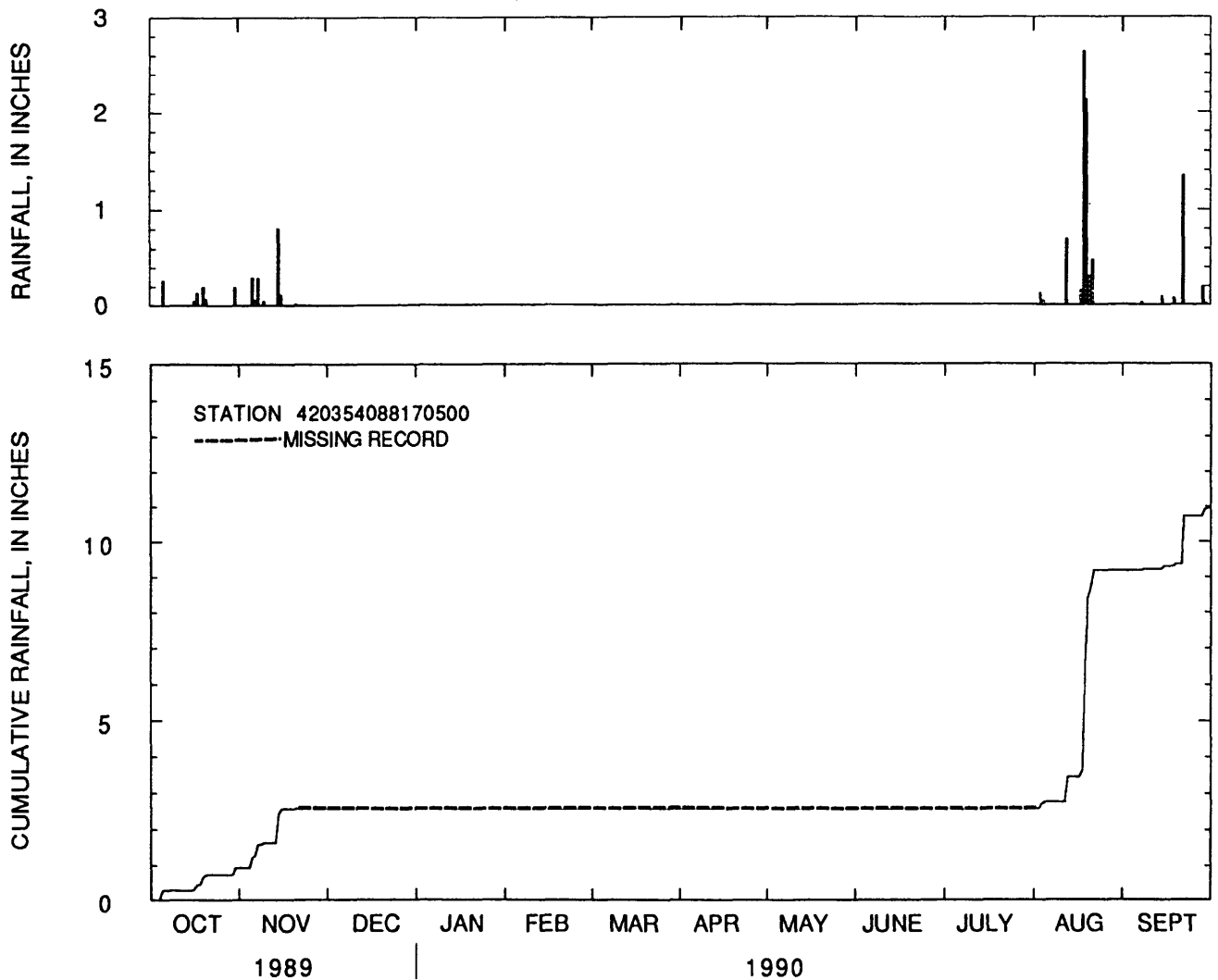


Figure 55.--Daily rainfall totals and cumulative rainfall at Elgin Wastewater Treatment Facility at Elgin, Illinois, water year 1990.

420354088170500 Elgin Wastewater Treatment Facility at Elgin,
Illinois--Continued

Rainfall, in inches, water year October 1989 to September 1990
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	m	m	m	m	m	m	m	m	p0.00	0.00
2	.00	.00	m	m	m	m	m	m	m	m	.00	.00
3	.00	.00	m	m	m	m	m	m	m	m	.13	.00
4	.00	.00	m	m	m	m	m	m	m	m	.05	.00
5	.27	.30	m	m	m	m	m	m	m	m	.00	.00
6	.00	.06	m	m	m	m	m	m	m	m	.00	.00
7	.00	.29	m	m	m	m	m	m	m	m	.00	.03
8	.00	.00	m	m	m	m	m	m	m	m	.00	.00
9	.00	.05	m	m	m	m	m	m	m	m	.00	.00
10	.00	.00	m	m	m	m	m	m	m	m	.00	.00
11	.00	.00	m	m	m	m	m	m	m	m	.00	.00
12	.00	.00	m	m	m	m	m	m	m	m	.70	.00
13	.00	.00	m	m	m	m	m	m	m	m	.00	.00
14	.00	.81	m	m	m	m	m	m	m	m	.00	.09
15	.00	.12	m	m	m	m	m	m	m	m	.00	.00
16	.05	.00	m	m	m	m	m	m	m	m	.00	.00
17	.14	.00	m	m	m	m	m	m	m	m	.16	.00
18	.00	.00	m	m	m	m	m	m	m	m	2.64	.07
19	s.20	.00	m	m	m	m	m	m	m	m	2.13	.00
20	s.07	s.02	m	m	m	m	m	m	m	m	.31	.00
21	.00	.00	m	m	m	m	m	m	m	m	.48	1.35
22	.00	.00	m	m	m	m	m	m	m	m	.00	.00
23	.00	.00	m	m	m	m	m	m	m	m	.00	.00
24	.00	m	m	m	m	m	m	m	m	m	.00	.00
25	.00	m	m	m	m	m	m	m	m	m	.00	.00
26	.00	m	m	m	m	m	m	m	m	m	.00	.00
27	.00	m	m	m	m	m	m	m	m	m	.00	.00
28	.00	m	m	m	m	m	m	m	m	m	.00	.20
29	.00	m	m	m	--	m	m	m	m	m	.00	.02
30	.20	m	m	m	--	m	m	m	m	m	.00	.00
31	.00	--	m	m	--	m	--	m	--	m	.00	--
Total	0.93	--	--	--	--	--	--	--	--	--	--	1.76

m Missing record.
p Partial record.
s Snowfall-affected precipitation.

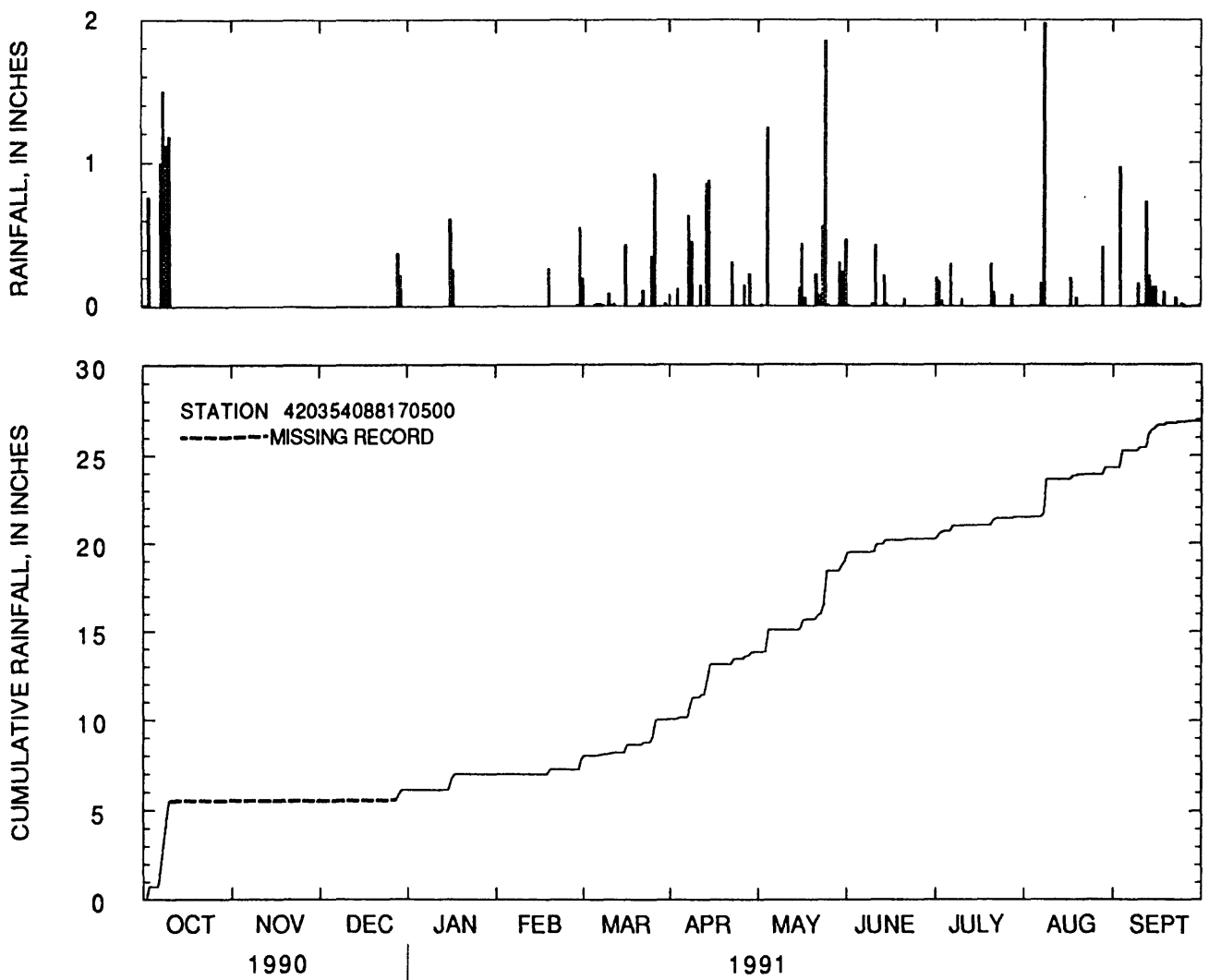


Figure 56.--Daily rainfall totals and cumulative rainfall at Elgin Wastewater Treatment Facility at Elgin, Illinois, water year 1991.

420354088170500 Elgin Wastewater Treatment Facility at Elgin,
Illinois--Continued

Rainfall, in inches, water year October 1990 to September 1991
Daily totals

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	m	m	0.00	0.00	0.55	0.00	0.00	0.47	0.00	0.00	0.00
2	.00	m	m	.00	.00	.20	.00	.00	.01	.20	.00	.00
3	.76	m	m	.00	.00	.00	.00	.01	.00	.18	.00	.97
4	.00	m	m	.00	.00	.00	.12	.00	.00	.04	.00	.00
5	.00	m	m	.00	.00	.00	.00	1.25	.00	.00	.00	.00
6	.00	m	m	.00	.00	.01	.00	.00	.00	.00	.00	.00
7	1.00	m	m	.00	.00	.02	.00	.00	.00	.30	.17	.00
8	1.50	m	m	.00	.00	.02	.63	.00	.00	.00	1.98	.00
9	1.12	m	m	.00	.00	.01	.45	.00	.00	.00	.00	.16
10	1.18	m	m	.00	.00	.00	.00	.00	.02	.00	.00	.01
11	.00	m	m	.00	.00	.09	.00	.00	.43	.05	.00	.01
12	p.00	m	m	.00	.00	s.01	.15	.00	.00	.00	.00	.73
13	m	m	m	.00	.00	s.02	.00	.00	.00	.00	.00	.22
14	m	m	m	.00	.00	.00	.85	.00	.22	.00	.00	.14
15	m	m	m	s.61	.00	.00	.87	.00	.02	.00	.00	.14
16	m	m	m	s.26	.00	.00	.00	.13	.00	.00	.00	.01
17	m	m	m	.00	.00	.43	.00	.44	.00	.00	.20	.00
18	m	m	m	.00	s.27	.00	.00	.06	.00	.00	.00	.10
19	m	m	m	.00	.00	.00	.00	.00	.00	.00	.06	.00
20	m	m	p0.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	m	m	.00	.00	.00	.00	.00	.00	.05	.30	.00	.00
22	m	m	.00	.00	.00	.02	.00	.23	.00	.10	.00	.06
23	m	m	.00	.00	.00	.11	.31	.09	.00	.00	.00	.00
24	m	m	.00	.00	.00	.00	.00	.56	.00	.00	.00	.02
25	m	m	.00	.00	.00	.00	.00	1.85	.00	.00	.00	.01
26	m	m	.00	.00	.00	.35	.00	.01	.00	.00	.00	.00
27	m	m	.00	.00	.00	.92	.15	.00	.00	.00	.00	.00
28	m	m	.37	.00	s.01	.00	.00	.00	.00	.08	.42	.00
29	m	m	.22	.00	--	.00	.23	.00	.00	.00	.00	.00
30	m	m	.00	.00	--	.00	.01	.31	.00	.00	.00	.01
31	m	--	.00	.00	--	s.02	--	.25	--	.00	.00	--
Total	--	--	--	0.87	0.28	2.78	3.77	5.19	1.22	1.25	2.83	2.59

m Missing record.

p Partial record.

s Snowfall-affected precipitation.

REFERENCES

- Leighton, M.M., Ekblaw, G.E., and Horberg, Leland, 1948, Physiographic divisions of Illinois: Illinois State Geological Survey, Report of Investigations 129, 33 p.
- U.S. Department of Commerce, National Oceanic and Atmospheric Administration, 1986-91, Climatological data, Illinois: Asheville, N.C., Environmental Data and Information Service (published monthly).