

PRELIMINARY REPORT ON A STUDY TO ESTIMATE FLOOD VOLUMES  
OF SMALL RURAL STREAMS IN OHIO: METHODS, SITE SELECTION,  
AND DATA BASE

By James M. Sherwood

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## CONVERSION FACTORS

For the convenience of readers who prefer to use metric (International System) units, conversion factors for terms in this report are listed below:

<u>Multiply inch-</u> <u>pound units</u>	<u>By</u>	<u>To obtain metric units</u>
inch (in.)	25.40	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
square mile (mi <sup>2</sup> )	2.590	square kilometer (km <sup>2</sup> )
cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second (m <sup>3</sup> /s)
foot per mile (ft/mi)	0.1894	meter per kilometer (m/km)

Temperature in degrees Fahrenheit (°F) can be converted to degrees Celsius (°C) as follows:

$$^{\circ}\text{F} = 1.8^{\circ}\text{C} + 32$$

PRELIMINARY REPORT ON A STUDY TO ESTIMATE FLOOD VOLUMES OF SMALL  
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ABSTRACT

In April 1981, the U.S. Geological Survey, in cooperation with the Ohio Department of Transportation and the Federal Highway Administration, began a 7-year flood-volume study of small rural basins in Ohio. This report summarizes the methods of study and describes reconnaissance and site-selection procedures, locations and characteristics of the stations, instrumentation, and methods of collecting and storing data.

The first phase of this study involved an intensive field reconnaissance of about 7,000 sites, of which 32 basins were selected for detailed analysis. Drainage areas for the basins varied from 0.13 to 6.45 square miles, and main-channel slopes ranged from 7.6 to 276 feet per mile.

Five years of 5-minute rainfall-runoff data will be collected for each study site. These data will be used to calibrate and verify a rainfall-runoff model for each basin. The calibrated model will be used in conjunction with 80 years of National Weather Service 5-minute precipitation data to synthesize a representative 80-year streamflow record at each site. A Log-Pearson Type III frequency distribution will be applied to each record to define the magnitudes and frequencies of flood volumes at each site. These data will be used to develop regionalized multiple regression models for estimating flood-volume magnitudes and frequencies at small rural ungaged sites in Ohio.

The report also summarizes rainfall-runoff data collected from July 1981 through September 1983, but does not interpret the data. An average of eleven event periods per site were monitored where maximum 5-minute rainfall intensities varied from 0.02 to 0.67 inches and maximum peak discharges varied from 1 to 1,130 cubic feet per second.

## INTRODUCTION

Highway engineers and bridge designers in Ohio require information about floods from small (less than 10 square miles) rural basins to economically design hydraulic structures to control and safely convey these flows. In the past, design considerations have been based on the magnitude and frequency of instantaneous peak flows. A design approach that considers the magnitude and frequency of flood volumes and the shape of the flood hydrograph would aid in the design of hydraulic structures such as culverts and detention basins. This design approach uses the temporary storage of flood flows to reduce the flood peaks and safely convey the flood waters.

A review of previous data collected in Ohio showed that complete hydrograph records from small rural basins were not generally available. Most of the data collected were from crest-stage gages, which record flood peaks only. In April 1981, the U.S. Geological Survey, in cooperation with the Ohio Department of Transportation and the Federal Highway Administration, initiated a 7-year flood-volume study of small rural basins in Ohio, 32 of which were selected for detailed analysis (fig. 1). The purpose of this study is to develop simple and straightforward methods for estimating the magnitudes and frequencies of flood runoff-volumes and deriving the shapes of flood hydrographs at ungaged sites. Regression models for estimating flood volumes at ungaged sites, examples of how to use the models, and techniques for estimating hydrograph shapes at ungaged sites will be presented in a final report.

### Purpose and Scope

This report summarizes the methods of study for estimating flood volumes of small rural stream basins in Ohio, and describes basin-reconnaissance and site-selection procedures, locations and characteristics of the stations, instrumentation, and methods of collecting and storing data. The report also lists rainfall-runoff data and daily rainfall values collected from July 1981 to September 1983 for 32 small stream basins.

## METHODS OF STUDY

### Estimation of Flood Volumes

Rainfall-runoff data will be collected for 5 years at 32 small rural sites having a representative range of basin characteristics such as drainage area, slope, and land cover. (The data-collection phase of the project is described in detail later on in this section.)



### EXPLANATION

▲ 04192900 U.S. Geological Survey station number and location of site

③ Geographic area number (from Webber and Bartlett, 1977)

— Geographic area boundary (from Webber and Bartlett, 1977)

Figure 1.--Location of sites studied.



The following methods will be used to process the data and will be discussed in detail in the final report:

1. The data will be used to calibrate the U.S. Geological Survey rainfall-runoff model at each site.
2. The calibrated model will be used in conjunction with 80 years of National Weather Service 5-minute precipitation data to synthesize a representative 80-year streamflow record at each site.
3. The Log-Pearson Type III Frequency Distribution (U.S. Water Resources Council, 1981) will be used to define the frequencies of flood volumes at each site.
4. Regionalized models for estimating flood-volume magnitudes and frequencies at ungaged sites will be developed by applying multiple regression techniques that relate flood volumes to physical and climatic variables.
5. A dimensionless hydrograph will be developed that will utilize flood-peak and flood-volume data to generate a complete design-flow flood hydrograph.
6. The relationship between flood peak and flood volume will be investigated to develop a method of determining one from the other.

#### Basin-Reconnaissance and Site-Selection Criteria

One of the most important phases of this study was reconnaissance and site selection. Two broad categories of characteristics controlled and guided the selection process: (1) Physical and hydraulic characteristics of the potential gaging location, which influence the quality of data that can be collected there, and (2) basin characteristics, which influence runoff processes in both a temporal and quantitative manner and vary from basin to basin; a representative sampling of basin characteristics is required to ensure general applicability of the regionalized regression models this study proposes to develop. The variables considered within these two categories are discussed in detail in the following sections.

## Physical and Hydraulic Characteristics

The scope of this project deemed that it was not economically feasible nor physically possible to attempt to establish a stage-discharge relationship by means of current meter measurements. Therefore, only sites where a reliable theoretical culvert rating could be established were considered. The factors that control the reliability of theoretical stage-discharge relationships at culverts include: uniformity of slope, size, shape and material; absence of debris in culvert barrel; sufficient contraction at culvert entrance; infrequent road overflow; straight and clear approach; and adequate slope and conveyance downstream to prevent any backwater problems. These variables were checked at each potential site and only those meeting these criteria were selected.

## Basin Characteristics

Basin characteristics and climatic variables will be related to flood volumes by applying multiple regression analysis on a regional basis. Webber and Bartlett (1977) divided Ohio into five geographic areas (fig. 1) on the basis of glacial history, plots of residuals (areal plots of differences between computed and observed flood peaks for gaging stations), topography, and generalized soil regions. A representative cross-section of drainage areas less than 10 square miles was needed throughout each of these five areas and throughout the State. Areas 2 and 5 were combined because of the similarity of their characteristics. Less than 5 percent storage and less than 10 percent urbanization were required at all sites. Some variation of the other basin characteristics (table 1) was needed and was accomplished by the basin locations being equally distributed throughout the State.

Thirty-two small rural stream basins (drainage area less than 10 square miles) were needed in a Statewide network. A total of 111 active crest-stage gage sites were screened for acceptability because most of the physical and hydraulic characteristics (including flow type) and basic characteristics were already documented; eight sites were selected. Map and field reconnaissance were used to select the 24 additional sites on the basis of the criteria discussed previously. About 7,000 sites were initially identified on 7.5-minute topographic maps and field checked. Culvert dimensions and other site information were recorded in field notes, and drainage areas were computed for 344 of these sites. About 240 sites met the criteria; from these, the selection of the 24 additional stations was made. Figure 1 shows the locations of the 32 study sites.

## Description of Study Sites

### Basin Characteristics

Basin characteristics will be used as independent variables in a regression analysis to develop relationships for estimating runoff volumes. The methods of computation are explained below. Results are summarized in table 1.

Drainage area (D.A.) -- in square miles, as computed from U.S. Geological Survey 7.5-minute topographic quadrangle maps.

Main-channel slope (Slope) -- in feet per mile, computed as the difference between the elevations (in feet) at 10 and 85 percent of the channel distance from the stream gage to the basin divide, divided by the channel distance (in miles) between the two points as determined from topographic maps.

Main-channel length (Length) -- in miles, from stream gage to basin divide, as determined from topographic maps.

Average basin elevation (Ave. Elev.) -- in feet above sea level, computed by placing a uniform grid overlay over the topographic map for the station and averaging the elevations of 20 to 80 points within the basin.

Average basin elevation index (Elev. 10,85) -- in feet above sea level, computed by averaging the elevations at the 10- and 85-percent distance points along the channel as determined from topographic maps.

Surface-storage index (Stor.) -- in percent, is percentage of total basin drainage area occupied by lakes, ponds, and swamps, as determined from topographic maps.

Forest area (Forest) -- in percent, is the percentage of total basin drainage area occupied by forest cover as determined from green-tinted areas on topographic maps.

Latitude of the stream gage (Latitude) -- in decimal degrees north of the equator.

Longitude of the stream gage (Longitude) -- in decimal degrees west of the prime meridian.

Average annual precipitation (Precip.) -- in inches, determined from an isohyetal map published by the Ohio Division of Water (1962).

Maximum 24-hour rainfall (I<sub>24,2</sub>) -- in inches, having a recurrence interval of 2 years, as determined from U.S. Weather Bureau Technical Paper 40, U.S. Department of Commerce (1961).

January mean minimum temperature (Jan. min.) -- in degrees Fahrenheit, determined from U.S. Weather Bureau Climatology of the United States No. 60-33, U.S. Department of Commerce (1959).

### Flood-Peak Magnitudes and Frequencies

Four of the eight existing crest-stage gage stations (station numbers 03123400, 04186800, 04192900, 04210100) had sufficient annual peak discharge data to determine magnitudes and frequencies of flood peaks by application of the Log-Pearson Type III frequency distribution (U.S. Water Resources Council, 1976). Flood peak frequencies for the other 28 stations were computed using the regression equations developed by Webber and Bartlett (1977), which relate physical and climatic factors of stream basins to peak discharge at gaging stations.

The flood-peak frequency data were used primarily as an aid in determining the range of discharges to be covered when developing the theoretical stage-discharge relationships for each station. They were also helpful in determining the likelihood of road overflow occurring at sites where it seemed possible. Flood-peak magnitudes and frequencies for each station are summarized in table 2.

### Culvert Geometry

After the installation of streamflow and precipitation monitoring equipment at each station, a vertical-control survey was used to establish the elevations of several reference marks, the upstream and downstream invert, the point of road overflow, and the datum of the stage-recording gages. The datum for each station is arbitrary and does not refer to sea level. The approach section was also surveyed. The material, shape, and roughness coefficient of the culvert were recorded and the height, width, and length measured. These data were used to determine the possible flow types (Bodhaine, 1968) and develop the theoretical stage-discharge relationships. Culvert geometry is summarized in table 3.

Table 1.--Basin characteristics for selected small rural streams in Ohio

USGS station number	Stream name	D. A. (mi <sup>2</sup> )	Slope (ft/mi)	Length (mi)	Ave. elev. (ft)	Elev. 10,85 (ft)	Stor. (per- cent)	For- est (per- cent)	Lat. (dec. deg.)	Long. (dec. deg.)	Pre- cip. (in.)	124,2 (in.)	Jan. min. (°F)
03115596	Barnes Run-----	1.02	105	1.95	1,102	980	.1	22.3	39.788	81.352	40.0	2.5	23
04196825	Browns Run-----	2.00	13.4	2.88	835	826	.1	8.1	40.887	83.337	35.0	2.6	22
03235080	Bull Creek-----	3.13	60.4	3.60	990	905	0	70.0	39.453	82.779	39.5	2.5	24
04180907	Carter Creek-----	1.16	13.8	1.83	973	964	1.4	12.6	40.438	84.329	35.5	2.8	22
03123060	Cattail Creek-----	.14	179	.76	1,075	1,069	0	35.7	40.453	81.700	38.0	2.4	23
03113802	Chestnut Creek-----	0.22	156	0.90	1,222	1,160	0.3	53.4	39.947	81.157	40.0	2.5	22
03148395	Claypit Creek-----	2.25	73.6	2.59	884	818	2.8	74.1	39.841	82.071	38.0	2.5	23
04201302	Delwood Run-----	.45	45.1	1.45	881	866	.4	5.1	41.237	81.922	36.5	2.4	21
03237198	Duncan Hollow Creek-----	.51	276	1.02	937	814	0	97.4	38.875	83.060	41.0	2.7	27
03123400	Dundee Creek-----	.71	116	.95	1,101	1,038	1.8	15.8	40.593	81.604	37.0	2.4	23
03237315	Elk Fork-----	6.45	38.2	4.36	964	916	.4	8.1	38.947	83.622	42.5	2.8	24
03159537	Elk Run-----	.48	141	1.19	833	761	0	50.0	39.161	81.963	40.5	2.6	25
03120580	Falling Branch-----	.33	136	.93	1,009	972	0	47.0	40.508	81.240	39.5	2.4	22
04201895	Fire Run-----	.24	124	.88	1,233	1,217	.8	67.9	41.393	81.216	40.5	2.4	19
03263171	Harte Run-----	.86	20.2	1.65	1,037	1,028	0	5.2	40.145	84.611	37.5	2.8	22
04210100	Hoskins Creek-----	5.42	21.8	7.47	1,115	1,108	1.7	39.0	41.600	80.953	40.0	2.4	20
04186800	King Run-----	.53	65.0	.93	1,024	1,016	0	10.0	40.732	83.896	35.0	2.7	21
03267435	Kitty Creek-----	1.75	39.2	3.54	1,183	1,146	0	4.9	40.052	88.882	37.5	2.7	22
03223330	March Run-----	.18	118	.78	1,294	1,280	1.1	34.0	40.632	82.766	36.0	2.5	21
04183750	Racetrack Run-----	.34	30.8	1.25	810	805	0	7.4	41.316	84.767	34.0	2.6	20
04192900	Reitz Run-----	.98	16.7	1.84	653	642	0	1.3	41.497	83.710	32.0	2.5	20
04198019	Sandhill Creek-----	1.76	16.1	3.06	771	766	.1	8.0	41.204	82.716	35.0	2.5	22
03205995	Sandusky Creek-----	.73	124	1.52	740	630	0	84.9	38.418	82.510	42.5	2.7	28
03150602	Second Creek-----	1.04	115	1.75	823	724	.4	30.8	39.460	81.440	40.0	2.5	25
03144865	Slim Creek-----	.13	105	1.10	1,019	1,000	0	13.5	39.947	82.604	39.0	2.5	22
03237120	Stone Branch-----	.85	76.3	1.52	827	808	1.0	6.0	38.951	83.375	41.5	2.8	25
04191003	Stripe Creek-----	1.26	7.6	2.79	769	764	0	5.0	40.908	84.562	36.0	2.7	21
03238285	Sugar Run-----	1.37	63.2	2.32	1,104	1,085	.3	14.8	39.108	83.677	43.0	2.8	24
03219849	Tombstone Creek-----	4.03	21.1	3.41	1,005	992	.5	10.9	40.212	83.304	37.0	2.6	22
03272695	Trippetts Branch-----	.33	145	1.29	967	950	.6	37.9	39.634	84.652	39.0	2.9	24
03241994	Twist Run-----	.65	63.3	1.98	1,019	999	.8	8.5	39.665	83.933	39.0	2.8	23
03158102	Wolfkiln Run-----	.88	108	1.66	888	785	0	77.6	39.476	82.314	39.0	2.5	23
Summary statistics													
Maximum-----		6.45	276	7.47	1,294	1,280	2.8	97.4	--	--	43.0	2.9	28
Minimum-----		.13	7.6	.76	653	630	0	1.3	--	--	32.0	2.4	19
Mean-----		1.32	82.3	2.04	972	932	.5	30.2	--	--	38.3	2.6	23
Median-----		.79	69.3	1.66	982	957	.1	15.3	--	--	39.0	2.6	22

Table 2.--Flood peak magnitudes and frequencies for selected small rural streams in Ohio

[Q<sub>n</sub>, peak discharge for n-year recurrence interval, in cubic feet per second]

USGS station number	Stream name	Q <sub>2</sub>	Q <sub>5</sub>	Q <sub>10</sub>	Q <sub>25</sub>	Q <sub>50</sub>	Q <sub>100</sub>
03115596	Barnes Run-----	123	262	386	580	753	956
04196825	Browns Run-----	95	149	187	233	267	302
03235080	Bull Creek-----	421	743	978	1,310	1,560	1,830
04180907	Carter Creek-----	66	104	131	164	188	212
03123060	Cattail Creek-----	28	55	78	110	139	170
03113802	Chestnut Creek-----	39	86	129	196	256	327
03148395	Claypit Creek-----	215	439	635	936	1,200	1,510
04201302	Delwood Run-----	52	89	118	156	185	216
03237198	Duncan Hollow Creek--	194	359	482	660	794	942
03123400	Dundee Creek-----	87	160	219	302	372	446
03237315	Elk Fork-----	768	1,320	1,720	2,270	2,680	3,120
03159537	Elk Run-----	72	158	236	359	470	601
03120580	Falling Branch-----	50	96	132	185	231	279
04201895	Fire Run-----	35	61	81	109	130	153
03263171	Harte Run-----	85	154	205	276	330	388
04210100	Hoskins Creek-----	209	335	425	543	633	726
04186800	King Run-----	82	125	154	189	214	239
03267435	Kitty Creek-----	146	266	356	483	580	685
03223330	March Run-----	25	48	67	95	116	139
04183750	Racetrack Run-----	23	39	50	64	75	86
04192900	Reitz Run-----	29	54	73	99	119	139
04198019	Sandhill Creek-----	138	228	295	385	453	525
03205995	Sandusky Creek-----	98	212	315	479	623	794
03150602	Second Creek-----	128	275	408	618	806	1,030
03144865	Slim Creek-----	24	48	70	102	131	164
03237120	Stone Branch-----	219	392	519	698	830	975
04191003	Stripe Creek-----	64	102	128	160	184	209
03238285	Sugar Run-----	208	378	504	681	813	957
03219849	Tombstone Creek-----	288	503	661	881	1,050	1,230
03272695	Trippetts Branch-----	83	155	210	290	350	417
03241994	Twist Run-----	105	194	260	355	426	503
03158102	Wolfkln Run-----	110	234	345	518	673	853
Summary statistics							
Maximum-----		768	1,320	1,720	2,270	2,680	3,120
Minimum-----		23	39	50	64	75	86
Mean-----		135	244	330	453	551	660
Median-----		91	159	228	328	399	474

Table 3.--Culvert geometry for selected small rural stream sites in Ohio

UGS station number	Stream name	1 <sup>Mat.</sup> 2 <sup>Shape</sup>	Height (ft)	Width (ft)	Length (ft)	Upstream invert elev. (ft)	Downstream invert elev. (ft)	3 <sup>Fall</sup> (ft)	Slope (ft/ft)	Manning roughness coefficient	4 <sup>Flow type</sup> Low head	High head
03115596	Barnes Run-----	CMM	9.02	9.02	166.40	10.00	7.58	2.42	.015	.032	2	6
04196825	Browns Run-----	RC	7.93	7.93	195.80	10.00	9.76	.24	.001	.015	2	6
03235080	Bull Creek-----	CMM	14.00	14.00	154.10	64.18	63.66	.52	.003	.030	2	6
04180907	Carter Creek-----	RC	5.02	6.02	52.50	10.00	9.73	.27	.005	.015	2-1-2-1-2	5
03123060	Cattail Creek-----	RC	2.52	4.00	27.00	10.00	9.88	.12	.004	.015	NC	NC
03113802	Chestnut Creek-----	RC	3.02	4.01	34.00	10.00	8.74	1.26	.037	.013	1	6
03148395	Claypit Creek-----	CMM	8.05	8.05	361.90	10.00	8.77	1.23	.003	.033	2	6
04201302	Delwood Run-----	RC	5.00	5.00	154.10	10.00	6.14	3.86	.025	.015	1	6
03237198	Duncan Hollow Creek-----	CMM	6.96	6.96	287.10	10.00	4.41	5.59	.019	.033	1-2	6
03123400	Dundee Creek-----	RC	5.04	5.04	124.00	18.07	16.26	1.81	.015	.013	1	6
03237315	Elk Fork-----	CMM	15.13	15.13	202.30	10.00	7.59	2.41	.012	.030	2	5
03159537	Elk Run-----	CMM	5.30	7.17	68.60	10.00	9.21	.79	.012	.034	2	6
03120580	Falling Branch-----	RC	3.04	5.03	32.40	10.00	9.71	0.29	.009	.013	1	5
04201895	Fire Run-----	RC	4.00	4.03	42.15	10.00	9.23	.77	.018	.018	1	6
03263171	Harte Run-----	RC	7.00	7.00	185.60	10.00	9.16	.84	.005	.015	2-1-2	6
04210100	Hoskins Creek-----	CMM	10.11	16.56	59.92	4.97	3.75	1.22	.020	.030	1	NC
04186800	King Run-----	CMM	5.40	7.15	98.70	17.40	16.86	.54	.005	.033	2	6
03267435	Kitty Creek-----	CMM	8.94	14.26	84.45	10.00	8.63	1.37	.016	.031	2-1-2	NC
03223330	March Run-----	CMM	5.93	5.93	80.30	10.00	8.50	1.50	.019	.034	2	6
04183750	Racetrack Run-----	VC	3.00	3.00	38.00	10.00	8.92	1.08	.028	.013	1	6
04192900	Reitz Run-----	RC	6.98	6.98	187.60	16.52	10.82	5.70	.030	.015	1	NC
04198019	Sandhill Creek-----	CMM	5.97	8.82	97.25	10.00	9.25	.75	.008	.033	2	6
03205995	Sandusky Creek-----	RC	5.52	5.52	266.00	10.00	7.06	2.94	.011	.013	1	6
03150602	Second Creek-----	RC	9.00	9.00	189.60	10.00	8.83	1.17	.006	.013	1	6
03144865	Slim Creek-----	RC	4.01	4.01	115.40	10.00	8.17	1.83	.016	.013	1	6
03237120	Stone Branch-----	RC	7.00	7.00	306.60	10.00	4.89	5.11	.017	.013	1	6
04191003	Stripe Creek-----	RC	5.04	5.04	128.85	10.00	9.37	.63	.005	.015	2-1-2	6
03238285	Sugar Run-----	RC	9.05	9.05	132.50	10.00	9.27	.73	.006	.013	1	6
03219849	Tombstone Creek-----	CMM	9.86	16.67	258.10	10.00	9.29	.71	.003	.031	2	6
03272695	Trippetts Branch-----	RC	4.50	4.50	144.70	10.00	8.29	1.71	.012	.015	1	6
03241994	Twist Run-----	CMM	7.91	7.91	94.35	10.00	8.92	1.08	.011	.033	2	6
03158102	Wolfkln Run-----	RC	5.87	5.87	117.00	10.00	8.42	1.58	.014	.013	1	6

1<sup>Material</sup>

CMM = corrugated metal multiplate  
RC = reinforced concrete  
VC = vitrified clay

2<sup>Shape</sup>

A = arch  
B = box  
C = circle

3<sup>Fall</sup> = upstream invert elevation minus downstream invert elevation, in feet

4<sup>Flow type</sup>

NC = not yet computed

## Instrumentation

The stream gage at each site consists of an analog digital recorder (ADR), set to a 5-minute punch interval and housed in a 20-inch, cube-shaped steel shelter. The shelter is mounted on a 3-inch aluminum float well attached at the upstream end of the culvert. The well intake is a 2-inch-diameter steel pipe with a static tube on the end. The intake extends from the base of the well to a point one culvert width upstream from the culvert entrance. A crest-stage gage is mounted at the downstream end of the culvert to confirm the nonoccurrence of type 3 or type 4 flow (backwater conditions requiring measurement of stage downstream).

Rainfall data are recorded by another ADR (5-minute punch interval) housed in a similar steel shelter with a 50-square-inch rainfall collector on top. The shelter is mounted on a 3-inch aluminum float well with a drain valve at the base. A tube inside the shelter connects the collector to the float well. The rain gage is installed at the stream-gage site if the rainfall will not be obstructed by surrounding trees. Otherwise, the rain gage is installed at an unobstructed, accessible location elsewhere within the basin. Photographs of several typical installations are shown in figure 2.

## Data Collection and Storage

The 32 stations are divided among four servicing routes. Each station is serviced once every four weeks. Data collection is discontinued during the winter months because the equipment is not capable of recording snowmelt accumulations, the model is not capable of simulating snowmelt runoff, and the stage-discharge relationships are valid only for unobstructed (no ice) culvert flow. Because the major thunderstorm periods occur during the spring and summer months, the loss of usable rainfall-runoff data due to the winter shutdown is minimal. Data collection begins at the end of March each year and is completed by the beginning of December.

Rainfall and runoff data are collected at 5-minute intervals. Daily rainfall totals are stored for all days, and the 5-minute data for both rainfall and runoff are stored for all rainfall-runoff events. All data are stored in the USGS WATSTORE System (Hutchinson, 1975). The units for rainfall are total rainfall for each 5-minute period in inches. The units for discharge are the instantaneous discharge rates in cubic feet per second. Examples of unit rainfall and unit discharge data are presented in tables 4 and 5, respectively.

If periods of daily rainfall data are missing due to a faulty recorder or the winter shut-down period, data are substituted from a nearby rainfall station operated by the National Weather Service.





2-A Stripe Creek near Van Wert (04191003),  
stream gage and rain gage.



2-B Stripe Creek near Van Wert (0419003),  
stream gage and rain gage.



2-C Kitty Creek at Terre Haute (03267435),  
rain gage.



2-D Dundee Creek at Dundee (03123400),  
stream gage and rain gage.

Figure 2.--Examples of rainfall-runoff monitoring equipment.



Table 5.--Example of unit discharge data for Twist Run at Xenia, Ohio

STATION ID = 03241994				PARAMETER CODE = 00060				STATISTIC CODE = 00011				STATE CODE = 39				RCD RET DATE = 0			
DEPTH = 999999.00				CREATE DATE OF REC = 820929				AGENCY CODE = USGS				PROCESS CODE = A							
X-SECTION = 999999.00				ACCOUNT NUMBER = *****				NO VALUE INDICATOR=999999.00				RCD DISP =							
DATE: AUG. 24, 1982				READINGS PER DAY = 288															
HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE	HR. MIN. SEC	VALUE
00.05.00	1.20	00.10.00	1.20	00.15.00	1.20	00.20.00	1.20	00.25.00	1.20	00.30.00	1.20	00.35.00	1.20	00.40.00	1.20	00.45.00	1.20	00.50.00	1.20
00.35.00	1.20	00.40.00	1.20	00.45.00	1.20	00.50.00	1.20	00.55.00	1.20	01.00.00	1.20	01.05.00	1.20	01.10.00	1.20	01.15.00	1.20	01.20.00	1.20
01.05.00	1.20	01.10.00	1.20	01.15.00	1.20	01.20.00	1.20	01.25.00	1.20	01.30.00	1.20	01.35.00	1.20	01.40.00	1.20	01.45.00	1.20	01.50.00	1.20
01.35.00	1.20	01.40.00	1.20	01.45.00	1.20	01.50.00	1.20	01.55.00	1.20	02.00.00	1.20	02.05.00	1.20	02.10.00	1.20	02.15.00	1.20	02.20.00	1.20
02.05.00	1.20	02.10.00	1.20	02.15.00	1.20	02.20.00	1.20	02.25.00	1.20	02.30.00	1.20	02.35.00	1.20	02.40.00	1.20	02.45.00	1.20	02.50.00	1.20
02.35.00	1.20	02.40.00	1.20	02.45.00	1.20	02.50.00	1.20	02.55.00	1.20	03.00.00	1.20	03.05.00	1.20	03.10.00	1.20	03.15.00	1.20	03.20.00	1.20
03.05.00	1.20	03.10.00	1.20	03.15.00	1.20	03.20.00	1.20	03.25.00	1.20	03.30.00	1.20	03.35.00	1.20	03.40.00	1.20	03.45.00	1.20	03.50.00	1.20
03.35.00	1.20	03.40.00	1.20	03.45.00	1.20	03.50.00	1.20	03.55.00	1.20	04.00.00	1.20	04.05.00	1.20	04.10.00	1.20	04.15.00	1.20	04.20.00	1.20
04.05.00	1.20	04.10.00	1.20	04.15.00	1.20	04.20.00	1.20	04.25.00	1.20	04.30.00	1.20	04.35.00	1.20	04.40.00	1.20	04.45.00	1.20	04.50.00	1.20
04.35.00	1.20	04.40.00	1.20	04.45.00	1.20	04.50.00	1.20	04.55.00	1.20	05.00.00	1.20	05.05.00	1.20	05.10.00	1.20	05.15.00	1.20	05.20.00	1.20
05.05.00	1.20	05.10.00	1.20	05.15.00	1.20	05.20.00	1.20	05.25.00	1.20	05.30.00	1.20	05.35.00	1.20	05.40.00	1.20	05.45.00	1.20	05.50.00	1.20
05.35.00	1.20	05.40.00	1.20	05.45.00	1.20	05.50.00	1.20	05.55.00	1.20	06.00.00	1.20	06.05.00	1.20	06.10.00	1.20	06.15.00	1.20	06.20.00	1.20
06.05.00	1.20	06.10.00	1.20	06.15.00	1.20	06.20.00	1.20	06.25.00	1.20	06.30.00	1.20	06.35.00	1.20	06.40.00	1.20	06.45.00	1.20	06.50.00	1.20
06.35.00	1.20	06.40.00	1.20	06.45.00	1.20	06.50.00	1.20	06.55.00	1.20	07.00.00	1.20	07.05.00	1.20	07.10.00	1.20	07.15.00	1.20	07.20.00	1.20
07.05.00	1.20	07.10.00	1.20	07.15.00	1.20	07.20.00	1.20	07.25.00	1.20	07.30.00	1.20	07.35.00	1.20	07.40.00	1.20	07.45.00	1.20	07.50.00	1.20
07.35.00	1.20	07.40.00	1.20	07.45.00	1.20	07.50.00	1.20	07.55.00	1.20	08.00.00	1.20	08.05.00	1.20	08.10.00	1.20	08.15.00	1.20	08.20.00	1.20
08.05.00	1.20	08.10.00	1.20	08.15.00	1.20	08.20.00	1.20	08.25.00	1.20	08.30.00	1.20	08.35.00	1.20	08.40.00	1.20	08.45.00	1.20	08.50.00	1.20
08.35.00	1.20	08.40.00	1.20	08.45.00	1.20	08.50.00	1.20	08.55.00	1.20	09.00.00	1.20	09.05.00	1.20	09.10.00	1.20	09.15.00	1.20	09.20.00	1.20
09.05.00	1.20	09.10.00	1.20	09.15.00	1.20	09.20.00	1.20	09.25.00	1.20	09.30.00	1.20	09.35.00	1.20	09.40.00	1.20	09.45.00	1.20	09.50.00	1.20
09.35.00	1.20	09.40.00	1.20	09.45.00	1.20	09.50.00	1.20	09.55.00	1.20	10.00.00	1.20	10.05.00	1.20	10.10.00	1.20	10.15.00	1.20	10.20.00	1.20
10.05.00	1.20	10.10.00	1.20	10.15.00	1.20	10.20.00	1.20	10.25.00	1.20	10.30.00	1.20	10.35.00	1.20	10.40.00	1.20	10.45.00	1.20	10.50.00	1.20
10.35.00	1.20	10.40.00	1.20	10.45.00	1.20	10.50.00	1.20	10.55.00	1.20	11.00.00	1.20	11.05.00	1.20	11.10.00	1.20	11.15.00	1.20	11.20.00	1.20
11.05.00	1.20	11.10.00	1.20	11.15.00	1.20	11.20.00	1.20	11.25.00	1.20	11.30.00	1.20	11.35.00	1.20	11.40.00	1.20	11.45.00	1.20	11.50.00	1.20
11.35.00	1.20	11.40.00	1.20	11.45.00	1.20	11.50.00	1.20	11.55.00	1.20	12.00.00	1.20	12.05.00	1.20	12.10.00	1.20	12.15.00	1.20	12.20.00	1.20
12.05.00	1.20	12.10.00	1.20	12.15.00	1.20	12.20.00	1.20	12.25.00	1.20	12.30.00	1.20	12.35.00	1.20	12.40.00	1.20	12.45.00	1.20	12.50.00	1.20
12.35.00	1.20	12.40.00	1.20	12.45.00	1.20	12.50.00	1.20	12.55.00	1.20	13.00.00	1.20	13.05.00	1.20	13.10.00	1.20	13.15.00	1.20	13.20.00	1.20
13.05.00	1.20	13.10.00	1.20	13.15.00	1.20	13.20.00	1.20	13.25.00	1.20	13.30.00	1.20	13.35.00	1.20	13.40.00	1.20	13.45.00	1.20	13.50.00	1.20
13.35.00	1.20	13.40.00	1.20	13.45.00	1.20	13.50.00	1.20	13.55.00	1.20	14.00.00	1.20	14.05.00	1.20	14.10.00	1.20	14.15.00	1.20	14.20.00	1.20
14.05.00	1.20	14.10.00	1.20	14.15.00	1.20	14.20.00	1.20	14.25.00	1.20	14.30.00	1.20	14.35.00	1.20	14.40.00	1.20	14.45.00	1.20	14.50.00	1.20
14.35.00	1.20	14.40.00	1.20	14.45.00	1.20	14.50.00	1.20	14.55.00	1.20	15.00.00	1.20	15.05.00	1.20	15.10.00	1.20	15.15.00	1.20	15.20.00	1.20
15.05.00	1.20	15.10.00	1.20	15.15.00	1.20	15.20.00	1.20	15.25.00	1.20	15.30.00	1.20	15.35.00	1.20	15.40.00	1.20	15.45.00	1.20	15.50.00	1.20
15.35.00	1.20	15.40.00	1.20	15.45.00	1.20	15.50.00	1.20	15.55.00	1.20	16.00.00	1.20	16.05.00	1.20	16.10.00	1.20	16.15.00	1.20	16.20.00	1.20
16.05.00	1.20	16.10.00	1.20	16.15.00	1.20	16.20.00	1.20	16.25.00	1.20	16.30.00	1.20	16.35.00	1.20	16.40.00	1.20	16.45.00	1.20	16.50.00	1.20
16.35.00	1.20	16.40.00	1.20	16.45.00	1.20	16.50.00	1.20	16.55.00	1.20	17.00.00	1.20	17.05.00	1.20	17.10.00	1.20	17.15.00	1.20	17.20.00	1.20
17.05.00	1.20	17.10.00	1.20	17.15.00	1.20	17.20.00	1.20	17.25.00	1.20	17.30.00	1.20	17.35.00	1.20	17.40.00	1.20	17.45.00	1.20	17.50.00	1.20
17.35.00	1.20	17.40.00	1.20	17.45.00	1.20	17.50.00	1.20	17.55.00	1.20	18.00.00	1.20	18.05.00	1.20	18.10.00	1.20	18.15.00	1.20	18.20.00	1.20
18.05.00	1.20	18.10.00	1.20	18.15.00	1.20	18.20.00	1.20	18.25.00	1.20	18.30.00	1.20	18.35.00	1.20	18.40.00	1.20	18.45.00	1.20	18.50.00	1.20
18.35.00	1.20	18.40.00	1.20	18.45.00	1.20	18.50.00	1.20	18.55.00	1.20	19.00.00	1.20	19.05.00	1.20	19.10.00	1.20	19.15.00	1.20	19.20.00	1.20
19.05.00	1.20	19.10.00	1.20	19.15.00	1.20	19.20.00	1.20	19.25.00	1.20	19.30.00	1.20	19.35.00	1.20	19.40.00	1.20	19.45.00	1.20	19.50.00	1.20
19.35.00	4.60	19.40.00	4.60	19.45.00	3.80	19.50.00	3.50	19.55.00	8.30	20.00.00	33.00	20.05.00	45.00	20.10.00	53.00	20.15.00	66.00	20.20.00	66.00
20.05.00	53.00	20.10.00	53.00	20.15.00	66.00	20.20.00	66.00	20.25.00	56.00	20.30.00	46.00	20.35.00	41.00	20.40.00	44.00	20.45.00	73.00	20.50.00	73.00
20.35.00	44.00	20.40.00	44.00	20.45.00	73.00	20.50.00	73.00	20.55.00	72.00	21.00.00	69.00	21.05.00	63.00	21.10.00	60.00	21.15.00	60.00	21.20.00	60.00
21.05.00	60.00	21.10.00	60.00	21.15.00	60.00	21.20.00	60.00	21.25.00	45.00	21.30.00	39.00	21.35.00	34.00	21.40.00	31.00	21.45.00	26.00	21.50.00	26.00
21.35.00	31.00	21.40.00	31.00	21.45.00	26.00	21.50.00	26.00	21.55.00	23.00	22.00.00	23.00	22.05.00	19.00	22.10.00	17.00	22.15.00	13.00	22.20.00	13.00
22.05.00	17.00	22.10.00	17.00	22.15.00	13.00	22.20.00	13.00	22.25.00	11.00	22.30.00	9.30	22.35.00	5.60	22.40.00	8.30	22.45.00	7.60	22.50.00	7.60
22.35.00	8.30	22.40.00	8.30	22.45.00	7.60	22.50.00	7.60	22.55.00	6.50	23.00.00	6.10	23.05.00	5.60	23.10.00	5.30	23.15.00	4.90	23.20.00	4.90
23.05.00	5.30	23.10.00	5.30	23.15.00	4.90	23.20.00	4.90	23.25.00	4.30	23.30.00	4.10	23.35.00	3.90	23.40.00	3.70	23.45.00	3.60	23.50.00	3.60
23.35.00	3.70	23.40.00	3.70	23.45.00	3.60	23.50.00	3.60	23.55.00	3.20	24.00.00	3.20	24.05.00	3.10	24.10.00		24.15.00		24.20.00	

## RAINFALL-RUNOFF AND RAINFALL DAILY-VALUES DATA

Tables 6-37 contain rainfall-runoff data and tables 38-69 contain rainfall daily-values data for each of the 32 basins studied. The rainfall-runoff tables summarize the unit data stored in the WATSTORE Unit Values File by event periods. Antecedent moisture index (AMI) is the 10-day antecedent precipitation index as defined by Linsley, Kohler, and Paulhus (1975). AMI was computed from the equation:

$$\text{AMI} = \sum_{n=1}^{10} P_n K^n$$

where  $P_n$  is equal to the daily rainfall for the nth day and K (a recession factor) was chosen to equal 0.90. Thus, the index for any day is equal to that of the previous day multiplied by the recession factor K. If rain occurs on any day, the amount of rain is added to the index. The rainfall daily-values data tables are computer output of WATSTORE program DVRETR (Hutchinson, 1975).

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Table 6.--Rainfall-runoff data for Chestnut Creek near Barnesville (03113802)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
07-03-82	07-05-82	0.79	2.60	0.25	9.5	0.26	0.66	0.88	0.88	8.55	38.9
08-24-82	08-25-82	.56	1.33	.07	5.3	.27	.52	1.00	1.30	3.53	16.0
09-02-82	09-03-82	.64	1.53	.11	7.1	.14	.28	.55	.95	4.67	21.2
04-09-83	04-12-83	1.87	1.15	1.05	91.6	.06	.13	.29	.46	4.53	20.6
04-14-83	04-16-83	1.65	1.18	.63	53.6	.11	.17	.34	.65	4.26	19.4
05-02-83	05-04-83	.95	1.86	.55	29.4	.06	.12	.23	.44	2.68	12.2
05-22-83	05-23-83	1.26	0.95	.28	29.8	.08	.17	.31	.61	3.88	17.6
Summary statistics											
Maximum		1.87	2.60	1.05	91.6	0.27	0.66	1.00	1.30	8.55	38.9
Minimum		0.56	0.95	0.07	05.3	.06	.12	0.23	0.44	2.68	12.2
Mean		1.10	1.51	.42	32.3	.14	.29	.51	.76	4.59	20.8
Median		.95	1.33	.28	29.4	.11	.17	.34	.65	4.26	19.4

Table 7.--Rainfall-runoff data for Barnes Run at Summerfield (03115596)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-19-82	03-22-82	1.51	0.76	0.59	77.0	0.07	0.10	0.13	0.25	6.94	6.80
05-19-82	05-22-82	0.00	1.99	.28	13.8	.64	.78	.89	1.11	9.78	9.59
05-28-82	05-31-82	.87	1.73	.47	27.2	.19	.36	.52	.83	10.8	10.6
06-16-82	06-18-82	.34	1.89	.51	27.0	.42	.61	.76	.85	39.4	38.6
07-03-82	07-05-82	.14	2.75	.47	17.1	.36	.64	1.21	1.49	33.6	32.9
08-08-82	08-10-82	.34	2.39	.18	7.4	.39	.72	.79	1.32	8.59	8.42
08-24-82	08-26-82	.14	1.51	.17	11.4	.28	.39	1.11	1.46	16.0	15.7
09-02-82	09-04-82	.71	1.50	.28	18.5	.54	.70	1.14	1.37	20.6	20.2
11-23-82	11-24-82	.51	.73	.18	25.2	.17	.25	.32	.53	8.80	8.63
04-07-83	04-12-83	.84	2.57	2.26	88.0	.17	.28	.46	.55	67.9	66.6
04-14-83	04-17-83	1.75	1.12	1.08	96.8	.10	.17	.25	.56	45.0	44.1
05-02-83	05-05-83	.87	2.01	1.70	84.3	.05	.12	.21	.44	47.9	47.0
05-22-83	05-24-83	1.46	.97	.93	95.8	.13	.29	.38	.46	53.3	52.3
Summary statistics											
Maximum-----		1.75	2.75	2.26	96.8	0.64	0.78	1.21	1.49	67.9	66.6
Minimum-----		0.00	0.73	0.17	7.4	.05	.10	0.13	0.25	6.94	6.80
Mean-----		.73	1.69	.70	45.4	.27	.42	.63	.86	28.4	27.8
Median-----		.71	1.73	.47	27.0	.19	.36	.52	.83	20.6	20.2

Table 8.--Rainfall-runoff data for Falling Branch at Sherrodsville (03120580)

[Occasional type III flow conditions are possible at this site. A downstream recorder has been installed.]

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
03-21-82	03-22-82	1.25	0.64	0.49	76.6	0.15	0.26	0.61	0.62	20.1
06-16-82	06-17-82	0.38	1.49	.25	16.5	.44	.76	.83	1.14	5.84
09-02-82	09-02-82	.42	1.56	.06	3.8	.24	.44	.86	1.40	2.86
04-08-83	04-12-83	.72	2.23	2.16	96.9	.06	.14	.30	.75	42.2
04-14-83	04-17-83	1.63	1.36	1.65	121.3	.08	.14	.36	.86	33.0
04-29-83	05-05-83	.30	3.78	3.28	86.9	.22	.26	.59	.79	51.2
05-22-83	05-23-83	.86	1.26	.70	55.9	.18	.34	.46	.60	20.1
07-17-83	07-19-83	.45	2.07	.25	12.0	.33	.46	.87	.91	8.10
08-01-83	08-01-83	.63	1.62	.28	17.3	.22	.43	1.02	1.50	22.8
										60.9
										17.7
										8.67
										128
										100
										155
										60.9
										24.5
										69.1
Summary statistics										
Maximum-----		1.63	3.78	3.28	121.3	0.44	0.76	1.02	1.50	51.2
Minimum-----		0.30	0.64	0.06	3.8	.06	.14	0.30	0.60	2.86
Mean-----		.74	1.78	1.01	54.1	.21	.36	.66	.95	22.9
Median-----		.63	1.56	.49	55.9	.22	.34	.61	.86	20.1
										155
										8.67
										69.4
										60.9



Table 9.--Rainfall-runoff data for Cattail Creek at Baltic (03123060)

[Stage-discharge relationship not yet established at this site]

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Per-cent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
07-03-82	07-03-82	0.72	1.36			0.31	0.59	1.03	1.17	
09-02-82	09-02-82	.56	1.28			.15	.33	0.71	1.22	
11-21-82	11-22-82	.66	1.08			.05	.10	.28	0.52	
04-09-83	04-10-83	1.06	1.42			.11	.28	.54	.71	
04-14-83	04-15-83	1.44	1.03			.05	.12	.28	.75	
04-30-83	05-04-83	.54	2.98			.16	.28	.54	.69	
05-22-83	05-23-83	.70	1.07			.13	.18	.31	.39	
06-19-83	06-19-83	.17	1.18			.23	.60	.96	1.14	
06-28-83	06-28-83	.47	0.86			.22	.45	.47	.49	
07-04-83	07-05-83	1.15	1.18			.33	.60	.91	1.12	
08-01-83	08-01-83	.33	1.67			.13	.33	.57	1.04	
Summary statistics										
Maximum-----		1.44	2.98			0.33	0.60	1.03	1.22	
Minimum-----		0.17	0.86			.05	.10	0.28	0.39	
Mean-----		.71	1.37			.17	.35	.60	.84	
Median-----		.66	1.18			.15	.33	.54	.75	

Table 10.--Rainfall-runoff data for Dundee Creek at Dundee (03123400)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
11-19-81	11-20-81	0.03	1.66	0.28	16.9	0.11	0.27	0.62	1.22	15.7
07-03-82	07-03-82	.55	1.26	.12	9.5	.15	.30	.94	1.14	17.8
07-07-82	07-07-82	1.29	0.72	.10	13.9	.21	.43	.71	0.72	10.5
08-02-82	08-02-82	.07	.97	.08	8.2	.40	.81	.91	.97	11.7
08-24-82	08-25-82	.22	1.27	.18	14.2	.23	.64	1.13	1.16	16.3
09-02-82	09-02-82	.63	1.40	.14	10.0	.24	.65	.97	1.23	24.1
04-09-83	04-11-83	.78	1.26	.88	70.0	.08	.15	.35	.61	29.0
04-14-83	04-15-83	1.13	1.09	.60	55.1	.06	.11	.32	.82	24.3
04-30-83	05-04-83	.47	3.91	2.38	61.0	.53	.78	.79	1.02	283
06-28-83	06-29-83	.35	1.39	.20	14.4	.27	.62	1.05	1.17	14.3
07-02-83	07-02-83	1.22	1.10	.18	16.4	.21	.38	.63	1.05	24.8
										15.7
										17.8
										10.5
										11.7
										16.3
										23.0
										33.9
										40.8
										34.2
										399
										20.1
										34.9
Summary statistics										
Maximum-----		1.29	3.91	2.38	70.0	0.53	0.81	1.13	1.23	283
Minimum-----		0.03	0.72	0.08	8.2	.06	.11	0.32	0.61	10.5
Mean-----		.61	1.46	.47	26.3	.23	.47	.77	1.01	42.9
Median-----		.55	1.26	.18	14.4	.21	.43	.79	1.05	17.8
										399
										14.8
										60.4
										25.1

Table 11.--Rainfall-runoff data for Slim Creek at Kirkersville (03144865)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-31-82	04-01-82	0.17	0.99	0.57	57.6	0.33	0.48	0.48	0.50	15.2	117
04-03-82	04-04-82	.85	.64	.44	68.8	.18	.27	.32	.35	8.82	67.8
05-29-82	05-31-82	1.20	1.38	.68	49.3	.32	.48	.60	.73	11.9	91.5
07-18-82	07-19-82	.74	.95	.27	27.9	.34	.69	.82	.83	5.32	40.9
04-08-83	04-10-83	1.53	1.65	1.48	89.7	.06	.13	.29	.52	13.1	101
04-14-83	04-16-83	1.69	.89	.86	96.6	.06	.17	.37	.68	11.5	88.5
04-30-83	05-04-83	.08	5.05	4.38	86.7	.15	.35	.69	.99	40.0	308
05-14-83	05-16-83	.08	1.95	1.04	53.3	.13	.28	.62	.85	8.98	69.1
05-22-83	05-23-83	1.25	1.02	.76	74.5	.10	.15	.26	.46	13.4	103
06-19-83	06-20-83	.33	1.64	.49	29.9	.18	.41	.60	.96	8.82	67.8
06-30-83	07-02-83	.56	1.14	.35	30.7	.26	.52	.86	.93	4.51	34.7
Summary statistics											
Maximum-----		1.69	5.05	4.38	96.6	0.34	0.69	0.86	0.99	40.0	308
Minimum-----		0.08	0.64	0.27	27.9	.06	.13	.26	.35	4.51	34.7
Mean-----		.77	1.57	1.03	60.5	.19	.36	.54	.71	12.9	99.0
Median-----		.74	1.14	.68	57.6	.18	.35	.60	.73	11.5	88.5

Table 12.--Rainfall-runoff data for Claypit Creek near Roseville (03148395)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
07-03-82	07-03-82	0.31	1.25	0.02	1.6	0.16	0.32	0.49	0.83	6.76	3.00
08-08-82	08-10-82	.04	3.91	.10	2.6	.43	1.02	1.30	1.32	13.6	6.04
08-24-82	08-25-82	.24	2.11	.10	4.7	.37	.93	1.86	2.06	54.1	24.0
04-08-83	04-12-83	1.04	2.52	.69	27.5	.17	.22	.36	.68	43.4	19.3
04-14-83	04-16-83	1.90	1.23	.41	33.3	.09	.22	.40	.89	61.9	27.5
04-30-83	05-06-83	.37	3.59	.80	22.2	.09	.18	.49	.85	45.7	20.3
05-14-83	05-17-83	.13	2.01	.21	10.4	.23	.54	.60	.64	8.40	3.73
05-22-83	05-24-83	1.56	1.27	.33	26.0	.13	.23	.36	.52	58.1	25.8
06-03-83	06-05-83	.33	1.31	.15	11.5	.18	.37	.80	.83	26.4	11.7
06-19-83	06-20-83	.37	0.95	.08	8.4	.18	.39	.56	.71	11.6	5.16
07-23-83	07-24-83	1.56	1.36	.08	5.9	.28	.49	.66	.67	9.39	4.17
Summary statistics											
Maximum-----		1.90	3.91	0.80	33.3	0.43	1.02	1.86	2.06	61.9	27.5
Minimum-----		0.04	0.95	.02	1.6	.09	0.18	0.36	0.52	6.76	3.00
Mean-----		.71	1.96	.27	14.0	.21	.45	.72	.91	30.9	13.7
Median-----		.37	1.36	.15	10.4	.18	.37	.56	.83	26.4	11.7

Table 13.--Rainfall-runoff data for Second Creek near Marietta (03150602)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Per-cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-19-82	03-20-82	1.42	1.16	0.49	42.2	0.09	0.18	0.37	0.61	104	100
05-19-82	05-21-82	0.00	2.50	.37	14.8	.33	.92	1.20	1.28	187	180
05-29-82	05-30-82	1.64	1.36	.64	47.1	.15	.34	.69	.91	101	97.1
06-04-82	06-05-82	1.10	1.93	1.04	53.9	.06	.17	.52	.83	232	223
06-16-82	06-16-82	.42	1.34	.56	41.8	.47	.92	1.07	1.08	413	397
07-03-82	07-04-82	.68	2.34	.37	15.8	.39	.58	.58	.78	86.5	83.2
04-08-83	04-10-83	.72	1.64	1.62	98.8	.12	.23	.34	.47	211	203
04-14-83	04-15-83	1.29	1.15	.76	66.1	.07	.12	.21	.52	83.5	80.3
05-02-83	05-04-83	1.12	2.62	2.12	80.9	.44	.86	1.01	1.12	504	485
06-03-83	06-04-83	.64	1.35	.93	68.9	.10	.24	.42	.68	127	122
06-06-83	06-07-83	1.47	0.49	.31	63.3	.09	.16	.44	.49	130	125
07-23-83	07-23-83	1.48	1.83	.31	16.9	.10	.25	.60	.85	118	113
Summary statistics											
Maximum		1.64	2.62	2.12	98.8	0.47	0.92	1.20	1.28	504	485
Minimum		0.00	0.49	0.31	14.8	.06	0.12	0.21	0.47	83.5	80.3
Mean		1.00	1.64	.79	50.9	.20	.41	.62	.80	191	184
Median		1.11	1.50	.60	50.5	.11	.24	.55	.80	128	124

Table 14.--Rainfall-runoff data for Wolfkiln Run at Haydenville (03158102)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-04-82	03-05-82	0.00	0.40	0.11	26.4	0.05	0.12	0.24	0.26	3.68	4.18
03-13-82	03-14-82	.69	.76	.19	25.2	.16	.24	.35	.43	5.61	6.38
03-16-82	03-17-82	1.00	.70	.35	50.6	.10	.15	.32	.43	9.44	10.7
03-20-82	03-23-82	1.21	1.89	1.07	56.7	.15	.39	.58	.69	30.7	34.9
03-31-82	04-01-82	.53	.63	.19	29.6	.05	.12	.33	.53	4.87	5.53
04-03-82	04-04-82	.64	.48	.20	41.8	.06	.11	.23	.24	5.48	6.23
05-27-82	05-31-82	.83	3.01	.78	25.8	.19	.38	.92	1.24	27.7	31.5
06-04-82	06-06-82	1.70	1.11	.28	24.8	.07	.16	.36	.59	8.07	9.17
06-09-82	06-10-82	.82	.72	.14	20.0	.21	.45	.57	.59	6.56	7.45
06-15-82	06-18-82	.63	1.90	.54	28.5	.12	.24	.65	.80	26.8	30.5
07-04-82	07-05-82	1.25	.42	.10	22.9	.16	.30	.32	.32	8.23	9.35
07-09-82	07-09-82	.93	.58	.06	10.1	.24	.45	.54	.55	5.00	5.68
04-08-83	04-10-83	1.02	2.33	1.21	51.8	.17	.36	.85	1.04	60.3	68.5
05-02-83	05-06-83	.76	2.57	1.51	58.7	.24	.26	.33	.57	21.1	24.0
05-21-83	05-24-83	1.17	1.03	.50	48.4	.18	.28	.28	.29	7.60	8.64
05-29-83	05-30-83	.98	.85	.25	28.9	.18	.31	.57	.58	13.5	15.3
06-17-83	06-21-83	.09	2.80	1.21	43.3	.23	.55	1.65	1.88	183	208
07-23-83	07-24-83	1.35	1.41	.09	6.6	.26	.33	.52	1.00	6.85	7.78
Maximum-----		1.70	3.01	1.51	58.7	0.26	0.55	1.65	1.88	183	208
Minimum-----		0.00	0.40	0.06	6.6	.05	.11	0.23	0.24	3.68	4.18
Mean-----		.87	1.31	.49	33.3	.16	.29	.53	.67	24.1	27.4
Median-----		.88	.94	.26	28.7	.16	.29	.44	.58	8.15	9.26

Table 15.---Rainfall-runoff data for Elk Run near Alfred (031595371)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
03-21-82	03-21-82	1.68	0.39	0.12	30.8	0.14	0.32	0.38	0.39	15.0
06-04-82	06-05-82	1.50	2.22	.65	29.3	.07	.19	.53	1.12	45.0
07-04-82	07-04-82	1.53	1.30	.25	19.2	.39	.64	.81	.82	23.9
04-08-83	04-08-83	1.21	.85	.30	35.3	.05	.14	.32	.61	18.6
04-14-83	04-15-83	1.14	1.05	.27	25.7	.08	.16	.20	.49	11.9
05-02-83	05-04-83	1.24	1.98	.77	38.9	.09	.19	.29	.44	17.3
										31.3
										93.8
										49.8
										38.8
										24.8
										36.0
Summary statistics										
Maximum-----		1.68	2.22	0.77	38.9	0.39	0.64	0.81	1.12	45.0
Minimum-----		1.14	0.39	.12	19.2	.05	.14	.20	0.39	11.9
Mean-----		1.38	1.30	.39	29.9	.14	.27	.42	.64	22.0
Median-----		1.37	1.18	.28	30.0	.08	.19	.35	.55	18.0
										93.8
										24.8
										45.7
										37.4

Table 16.--Rainfall-runoff data for Sandusky Creek near Burlington (03205995)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
04-02-82	04-04-82	0.85	0.66	0.45	68.2	0.15	0.28	0.43	0.47	14.2	19.5
05-27-82	05-31-82	1.35	2.38	1.25	52.5	.21	.43	.55	.79	37.1	50.8
08-27-82	08-28-82	1.15	1.66	.17	10.2	.13	.29	.68	.76	11.9	16.3
12-01-82	12-02-82	1.06	.91	.55	59.9	.06	.10	.21	.50	23.4	32.1
04-14-83	04-16-83	.54	.86	.48	55.8	.04	.07	.19	.48	15.2	20.8
05-01-83	05-06-83	1.06	2.56	2.35	91.8	.10	.18	.46	.89	71.6	98.1
05-15-83	05-18-83	.33	2.40	1.37	57.1	.22	.32	.84	1.09	32.0	43.8
05-21-83	05-23-83	1.91	1.03	.76	73.8	.09	.15	.28	.53	32.3	44.2
06-03-83	06-05-83	.30	1.61	.51	31.7	.25	.43	.69	.70	38.5	52.7
07-04-83	07-05-83	.90	1.46	.18	12.3	.30	.66	1.06	1.31	14.0	19.2
Summary statistics											
Maximum		1.91	2.56	2.35	91.8	0.30	0.66	1.06	1.31	71.6	98.1
Minimum		0.15	0.66	0.17	10.2	.04	.07	0.19	0.47	11.9	16.3
Mean		.84	1.55	.81	51.3	.16	.29	.54	.75	29.0	39.8
Median		.88	1.54	.53	56.4	.14	.28	.50	.73	27.9	38.2



Table 17.--Rainfall-runoff data for Tombstone Creek near Marysville (03219849)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
05-07-82	05-08-82	0.02	0.86	0.01	1.7	0.03	0.09	0.27	0.44	2.62	0.650
05-27-82	05-31-82	.21	1.69	.07	4.2	.23	.46	.67	.82	15.8	3.92
06-05-82	06-06-82	.75	.50	.02	3.6	.05	.10	.31	.47	4.98	1.24
06-09-82	06-11-82	.38	.50	.03	6.6	.14	.31	.41	.47	6.81	1.69
06-15-82	06-19-82	.43	1.90	.43	22.5	.27	.64	1.13	1.25	132	32.8
06-27-82	06-28-82	.13	.46	.01	2.6	.09	.19	.24	.24	4.66	1.16
08-08-82	08-09-82	.15	.60	.01	2.5	.24	.54	.59	.59	3.45	.856
08-24-82	08-25-82	.32	2.02	.05	2.6	.29	.81	1.50	1.81	37.7	9.35
09-02-82	09-03-82	.96	.72	.02	2.2	.14	.28	.34	.44	3.95	.980
11-21-82	11-21-82	.55	1.24	.04	3.1	.04	.10	.24	.55	15.2	3.77
11-28-82	11-29-82	1.27	.84	.11	12.9	.03	.07	.20	.40	33.3	8.26
04-30-83	05-06-83	.35	2.92	1.69	57.9	.22	.32	.62	.99	253	62.8
06-18-83	06-20-83	.00	1.82	.10	5.6	.13	.31	.54	.70	23.6	5.86
06-29-83	06-30-83	.79	.56	.02	2.7	.13	.27	.31	.33	4.98	1.24
07-05-83	07-05-83	1.07	.27	.01	5.2	.15	.25	.25	.25	5.14	1.28
08-28-83	08-29-83	.04	.49	.01	2.6	.21	.24	.25	.25	2.40	.596
08-31-83	08-31-83	.37	.48	.01	1.5	.21	.34	.47	.47	3.22	.799
09-21-83	09-21-83	.29	1.02	.02	2.1	.07	.15	.43	.88	12.8	3.18
Summary statistics											
Maximum-----		1.27	2.92	1.69	57.9	0.29	0.81	1.50	1.81	253	62.8
Minimum-----		0.00	0.27	0.01	1.5	.03	.07	0.20	0.24	2.40	0.596
Mean-----		.45	1.05	.15	7.9	.15	.30	.49	.63	31.4	7.80
Median-----		.36	.78	.02	2.9	.14	.28	.38	.47	5.98	1.48

Table 18.--Rainfall-runoff data for March Run near West Point (03223330)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
08-31-81	09-05-81	0.70	6.42	2.94	45.8	0.22	0.47	1.34	2.88	104	578
12-01-81	12-02-81	.27	0.46	0.41	88.5	.07	.14	0.26	0.41	2.00	11.1
05-07-82	05-08-82	.06	1.23	.27	22.0	.07	.17	.33	.62	2.00	11.1
05-19-82	05-19-82	.00	.69	.07	10.1	.18	.41	.52	.68	1.92	10.7
05-27-82	05-28-82	.42	.86	.15	17.4	.18	.33	.64	.82	3.50	19.4
05-30-82	05-31-82	.78	.44	.18	40.9	.09	.23	.26	.27	7.14	39.7
06-15-82	06-17-82	.20	1.94	.58	29.9	.30	.49	.63	.87	9.17	50.9
06-20-82	06-21-82	1.25	.45	.14	31.1	.16	.23	.43	.44	3.30	18.3
06-29-82	06-29-82	.46	.61	.12	19.7	.10	.20	.38	.50	2.30	12.8
07-03-82	07-04-82	.69	1.28	.45	35.2	.19	.27	.53	.89	9.34	51.9
08-04-82	08-04-82	.04	2.33	.29	12.4	.30	.74	1.98	2.32	20.4	113
11-12-82	11-13-82	.56	.58	.28	48.3	.11	.30	.45	.56	2.63	14.6
04-29-83	05-01-83	.26	1.55	1.01	65.3	.07	.14	.32	.58	15.1	83.9
05-22-83	05-23-83	.70	1.03	.42	41.0	.19	.25	.36	.48	7.72	42.9
07-22-83	07-23-83	.69	2.34	.26	11.1	.28	.65	1.92	2.11	12.5	69.4
08-31-83	08-31-83	1.30	1.28	.16	12.5	.16	.39	1.14	1.27	10.2	56.7
09-21-83	09-21-83	.62	.86	.11	12.9	.09	.16	.33	.70	1.20	6.67
Summary statistics											
Maximum-----		1.30	6.42	2.94	88.5	0.30	0.74	1.98	2.88	104	578
Minimum-----		0.00	0.44	0.07	10.1	.07	.14	0.26	0.27	1.20	6.67
Mean-----		.53	1.43	.45	32.0	.16	.33	.70	.96	12.6	70.1
Median-----		.56	1.03	.27	29.9	.16	.27	.45	.68	7.14	39.7

Beginning date	Ending date	Antecedent moisture index	Rain-fall (inches)	Run-off (inches)	Per-cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-19-82	03-22-82	0.97	1.88	1.02	54.3	0.20	0.48	0.87	1.02	391	125
04-02-82	04-04-82	.63	0.56	0.24	42.4	.07	.12	.21	0.27	36.6	11.7
05-29-82	05-31-82	1.55	1.60	.26	16.1	.20	.42	.83	1.26	94.0	30.0
06-05-82	06-06-82	1.34	1.18	.30	25.4	.11	.22	.66	1.14	103	32.9
06-09-82	06-11-82	.92	1.80	.59	32.9	.28	.68	1.25	1.33	248	79.2
06-15-82	06-17-82	1.40	1.52	.19	19.2	.09	.29	.36	.74	58.9	18.8
06-30-82	06-30-82	.28	.72	.06	8.3	.16	.37	.64	.71	49.5	15.8
07-08-82	07-09-82	.96	1.54	.19	12.5	.31	.75	1.20	1.22	181	57.8
04-08-83	04-11-83	.95	1.46	.84	57.4	.12	.19	.26	.40	90.1	28.8
04-14-83	04-16-83	1.22	.87	.57	65.1	.07	.11	.31	.71	108	34.5
05-01-83	05-06-83	.74	3.39	1.97	58.0	.22	.52	.61	1.07	243	77.6
05-22-83	05-24-83	.89	1.60	.83	52.1	.13	.27	.68	.88	284	90.7
06-03-83	06-04-83	.20	1.18	.25	21.4	.17	.28	.60	.62	130	41.5
07-03-83	07-04-83	1.34	1.26	.10	7.8	.20	.44	.69	.70	36.6	11.7
07-15-83	07-16-83	.03	.61	.20	33.2	.12	.24	.52	.59	223	71.2
07-25-83	07-26-83	4.19	.85	.38	45.2	.25	.58	.84	.84	144	46.0
Summary statistics											
Maximum	-----	4.19	3.39	1.97	65.1	0.31	0.75	1.25	1.33	391	125
Minimum	-----	0.03	0.56	0.06	7.8	.07	.11	.21	0.27	36.6	11.7
Mean	-----	1.10	1.38	.51	34.5	.17	.36	.66	.84	151	48.3
Median	-----	.96	1.36	.30	33.1	.16	.32	.65	.79	119	38.0



Table 21.--Rainfall-runoff data for Duncan Hollow Creek near McDermott (03237198)

[Stage-discharge relationship subject to change pending further discharge measurements]

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
05-27-82	05-27-82	0.91	1.96	0.31	15.8	0.41	1.18	1.95	54.1	106
05-29-82	05-30-82	2.34	3.26	1.97	60.4	.27	0.41	0.76	84.6	166
06-04-82	06-05-82	2.82	1.36	.93	68.4	.12	.27	.51	46.4	91.0
06-16-82	06-16-82	.81	2.08	.67	32.2	.53	.90	.94	58.4	115
04-08-83	04-09-83	1.03	1.84	2.53	137.5	.08	.14	.36	62.8	123
05-01-83	05-04-83	.58	3.17	4.64	146.4	.09	.17	.35	43.3	84.9
06-03-83	06-04-83	.36	1.97	1.08	54.8	.35	.71	.89	56.2	110
Summary statistics										
Maximum		2.82	3.26	4.64	146.4	0.53	1.18	1.95	84.6	166
Minimum		0.36	1.36	0.31	15.8	.08	0.14	0.35	43.3	84.9
Mean		1.26	2.23	1.73	73.6	.26	.54	.82	58.0	114
Median		.91	1.97	1.08	60.4	.27	.41	.76	56.2	110

Table 22.--Rainfall-runoff data for Elk Fork at Winchester (03237315)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
03-11-82	03-18-82	0.50	3.45	1.86	53.8	0.21	0.39	0.60	0.61	522	80.9
04-02-82	04-04-82	.43	0.85	0.31	36.2	0.09	0.14	0.32	0.46	229	35.5
05-27-82	05-31-82	.68	4.23	1.80	42.5	.26	.54	.69	1.05	1130	175
06-08-82	06-11-82	1.20	1.81	.87	48.0	.28	.73	1.10	1.24	699	108
06-15-82	06-18-82	.93	1.89	.73	38.6	.22	.58	.89	1.20	230	35.7
07-22-82	07-23-82	.27	1.20	.10	8.7	.24	.62	1.08	1.14	163	25.3
04-07-83	04-12-83	.50	1.72	.81	47.3	.03	.08	.27	.56	369	57.2
04-14-83	04-16-83	1.16	.54	.24	43.8	.05	.10	.24	.48	122	18.9
04-30-83	05-06-83	.72	3.61	2.03	56.3	.10	.24	.47	.76	725	112
05-14-83	05-23-83	.30	4.42	2.08	47.1	.15	.35	.46	.67	749	116
08-11-83	08-12-83	.00	1.76	.09	5.4	.31	.64	1.56	1.75	178	27.6
Summary statistics											
Maximum-----		1.20	4.42	2.08	56.3	0.31	0.73	1.56	1.75	1130	175
Minimum-----		0.00	0.54	0.09	5.4	.03	.08	0.24	0.46	122	18.9
Mean-----		.61	2.32	.99	38.9	.18	.40	.70	.90	465	72.1
Median-----		.50	1.81	.81	43.8	.21	.39	.60	.76	369	57.2

Table 23.--Rainfall-runoff data for Sugar Run near New Market (03238285)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
03-11-82	03-11-82	0.47	1.21	0.44	36.4	0.12	0.18	0.45	0.60	128
03-16-82	03-16-82	1.63	0.56	.27	48.2	.13	.23	.34	.37	60.2
03-20-82	03-21-82	1.93	.54	.38	70.4	.28	.31	.34	.35	150
03-30-82	03-31-82	.35	.93	.23	24.7	.10	.17	.48	.83	82.1
04-02-82	04-03-82	.87	1.02	.25	24.5	.10	.17	.37	.55	59.9
05-29-82	05-30-82	1.61	1.53	.15	9.8	.18	.36	.44	.64	71.7
06-15-82	06-16-82	.38	2.37	.33	13.9	.19	.40	.81	1.27	36.8
04-08-83	04-08-83	.62	.62	.21	33.9	.03	.06	.21	.47	41.7
04-30-83	05-04-83	.41	5.61	3.41	60.8	.17	.50	1.45	1.73	43.9
05-07-83	05-08-83	3.23	.89	.29	32.6	.16	.34	.49	.63	301
05-21-83	05-22-83	1.59	1.82	1.21	66.5	.16	.35	.50	.97	42.3
06-03-83	06-03-83	.41	1.21	.36	29.8	.17	.33	.70	1.05	191
06-17-83	06-18-83	.18	1.71	.33	19.3	.17	.40	.81	.85	115
										59.5
Summary statistics										
Maximum-----		3.23	5.61	3.41	70.4	0.28	0.50	1.45	1.73	412
Minimum-----		0.18	0.54	0.15	9.8	.03	.06	0.21	0.35	50.4
Mean-----		1.05	1.54	.60	36.2	.15	.29	.57	.79	127
Median-----		.62	1.21	.33	32.6	.16	.33	.48	.64	81.5
										301
										36.8
										93.0
										59.5





Table 25.--Rainfall-runoff data for Harte Run near Greenville (03263171)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
06-15-82	06-19-82	0.01	2.53	0.61	24.1	0.29	0.54	0.66	1.38	11.8
08-07-82	08-07-82	.62	1.26	.05	4.0	.19	.45	.79	0.80	5.13
08-20-82	08-20-82	.03	1.15	.05	4.3	.31	.70	.85	.85	4.00
11-20-82	11-21-82	.31	1.37	.10	7.3	.05	.10	.22	.48	2.69
06-30-83	07-02-83	.77	1.80	.36	20.0	.37	.73	1.56	1.60	41.3
07-04-83	07-05-83	1.70	1.04	.25	24.0	.35	.75	.99	1.04	27.3
										13.7
										5.97
										4.65
										3.13
										48.0
										31.7
Summary statistics										
Maximum-----		1.70	2.53	0.61	24.1	0.37	0.75	1.56	1.60	41.3
Minimum-----		0.01	1.04	.05	4.0	.05	.10	0.22	0.48	2.69
Mean-----		.57	1.52	.24	14.0	.26	.54	.84	1.02	15.4
Median-----		.46	1.32	.18	13.6	.30	.62	.82	.94	8.47
										48.0
										3.13
										17.9
										9.84

Table 26.--Rainfall-runoff data for Kitty Creek at Terre Haute (03267435)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
05-22-82	05-23-82	0.51	0.57	0.30	53.2	0.16	0.31	0.52	0.52	15.3
05-27-82	05-31-82	.60	1.34	.99	73.7	.11	.20	.24	.41	17.5
06-15-82	06-19-82	.13	2.36	1.51	64.2	.29	.54	1.14	1.29	88.6
06-28-82	07-01-82	.13	1.91	1.05	54.8	.27	.61	1.18	1.80	99.0
04-13-83	04-16-83	1.17	.85	.61	71.8	.12	.16	.23	.24	40.0
04-30-83	05-05-83	.20	3.50	2.66	76.0	.16	.30	.79	1.21	110
06-30-83	07-01-83	.52	.91	.40	43.7	.22	.45	.79	.80	32.5
										8.74
										10.0
										50.6
										56.6
										22.9
										62.9
										18.6
Summary statistics										
Maximum		1.17	3.50	2.66	76.0	0.29	0.61	1.18	1.80	110
Minimum		0.13	0.57	0.30	43.7	.11	.16	0.23	0.24	15.3
Mean		.47	1.63	1.07	62.5	.19	.37	.70	.90	57.6
Median		.51	1.34	.99	64.2	.16	.31	.79	.80	40.0
										62.9
										8.74
										32.9
										22.9

Table 27.--Rainfall-runoff data for Trippetts Branch at Camden (03272695)

[Stage-discharge relationship subject to change pending further discharge measurements]

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
05-07-82	05-08-82	0.00	1.60	0.47	29.4	0.07	0.17	0.43	0.76	6.24
06-08-82	06-08-82	.75	0.95	.34	35.8	.16	.36	.81	.93	14.5
06-28-82	06-28-82	.06	1.05	.15	14.3	.27	.47	.55	1.05	5.24
04-13-83	04-15-83	1.23	.90	.99	110.0	.08	.18	.26	.30	25.1
04-30-83	05-05-83	.14	5.41	6.37	117.7	.21	.42	1.35	2.12	247
05-22-83	05-22-83	.34	.82	.35	42.7	.13	.22	.56	.64	7.85
										18.9
										43.9
										15.9
										76.1
										748
										23.8
Summary statistics										
Maximum		1.23	5.41	6.37	117.7	0.27	0.47	1.35	2.12	247
Minimum		0.00	0.82	0.15	14.3	.07	.17	0.26	0.30	5.24
Mean		.42	1.79	1.45	58.3	.15	.30	.66	.97	51.0
Median		.24	1.00	.41	39.2	.14	.29	.56	.84	11.2
										748
										15.9
										154
										33.9

Table 28.--Rainfall-runoff data for Carter Creek near New Bremen (041809071)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
05-27-82	05-31-82	0.53	2.21	1.18	53.4	0.16	0.35	0.50	0.80	34.3	29.6
04-13-83	04-16-83	1.11	0.95	0.91	95.8	.14	.20	.30	.34	24.6	21.2
04-30-83	05-04-83	.22	3.18	2.44	76.7	.16	.31	.52	.69	30.3	26.1
05-22-83	05-23-83	.67	.93	.37	39.8	.15	.18	.29	.66	15.4	13.3
Summary statistics											
Maximum-----		1.11	3.18	2.44	95.8	0.16	0.35	0.52	0.80	34.3	29.6
Minimum-----		0.22	0.93	0.37	39.8	.14	.18	.29	.34	15.4	13.3
Mean-----		.63	1.82	1.22	66.4	.15	.26	.40	.62	26.2	22.5
Median-----		.60	1.58	1.04	65.0	.16	.26	.40	.68	27.5	23.7

Table 29.--Rainfall-runoff data for Racetrack Run at Hicksville (04183750)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
10-22-81	10-23-81	0.21	0.97	0.05	5.1	0.03	0.07	0.19	0.49	1.32
07-02-82	07-05-82	.17	3.17	1.32	41.7	.17	.37	.68	1.42	52.1
07-19-82	07-19-82	.26	1.18	.01	.6	.28	.64	.95	1.11	0.847
11-01-82	11-03-82	.65	3.80	.47	12.3	.24	.40	.84	1.67	18.1
04-13-83	04-15-83	.78	.66	.42	63.4	.02	.04	.13	.26	6.31
04-29-83	05-04-83	.38	3.24	1.51	46.5	.10	.24	.53	1.15	57.9
05-22-83	05-23-83	.44	1.07	.05	4.7	.11	.18	.31	.70	2.06
Summary statistics										
Maximum	-----	0.78	3.80	1.51	63.4	0.28	0.64	0.95	1.67	57.9
Minimum	-----	.17	0.66	0.01	0.6	.02	.04	.13	0.26	0.847
Mean	-----	.41	2.01	.55	24.9	.14	.28	.52	.97	19.8
Median	-----	.38	1.18	.42	12.3	.11	.24	.53	1.11	6.31
										170
										2.49
										58.3
										18.6

Table 30.-Rainfall-runoff data for King Run near Harrod (04186800)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
08-31-81	09-05-81	0.99	3.23	1.13	34.9	0.23	0.48	0.99	1.04	42.6
09-14-81	09-16-81	.21	1.47	0.49	33.5	.35	.83	1.14	1.15	21.6
05-27-82	05-31-82	.28	2.87	1.82	63.3	.55	1.15	1.90	2.20	167
06-09-82	06-10-82	.26	0.93	.31	33.5	.18	.37	.77	0.90	29.7
06-15-82	06-17-82	.52	1.28	.43	33.6	.07	.14	.28	.39	4.20
06-20-82	06-22-82	.82	.86	.47	54.7	.42	.61	.83	.83	35.8
06-28-82	06-30-82	.37	1.62	.65	40.0	.39	.79	1.14	1.35	64.8
07-10-82	07-10-82	.23	.47	.06	13.2	.22	.42	.45	.47	5.47
08-20-82	08-21-82	.00	1.54	.05	3.2	.32	.70	.87	.87	4.10
08-24-82	08-25-82	1.10	.65	.03	4.8	.09	.23	.39	.64	1.17
09-01-82	09-01-82	.34	.65	.04	5.7	.19	.43	.64	1.29	2.21
10-31-82	11-03-82	.04	2.51	.52	20.6	.35	.49	.52	.61	8.73
11-20-82	11-29-82	.19	2.89	2.26	78.0	.08	.15	.33	.59	12.0
04-14-83	04-15-83	.74	.28	.18	64.3	.08	.15	.25	.28	21.6
05-22-83	05-23-83	.37	.69	.15	21.3	.06	.12	.25	.39	4.00
09-16-83	09-16-83	.34	1.03	.00	0.3	.22	.44	.76	.77	1.65
Summary statistics										
Maximum	-----	1.10	3.23	2.26	64.3	0.55	1.15	1.90	2.20	167
Minimum	-----	0.00	0.28	0.00	0.3	.06	0.12	0.25	0.28	1.17
Mean	-----	.42	1.44	.54	31.5	.24	.47	.72	.82	26.6
Median	-----	.34	1.16	.37	33.5	.22	.44	.70	.70	10.4
										315
										2.21
										50.2
										19.6

Table 31.--Rainfall-runoff data for Stripe Creek near Van Wert (04191003)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
05-27-82	06-02-82	0.36	1.45	0.34	23.7	0.11	0.26	0.47	0.51	7.42
06-15-82	06-17-82	.03	1.16	.12	10.3	.05	.09	.21	.38	6.00
06-20-82	06-21-82	.86	0.44	.05	11.1	.16	.26	.43	.43	3.52
07-03-82	07-04-82	.35	.54	.02	4.5	.05	.11	.24	.40	1.71
11-28-82	11-29-82	1.06	.66	.06	9.1	.03	.07	.18	.46	3.34
04-13-83	04-16-83	.74	1.13	.97	85.8	.16	.30	.39	.57	36.3
04-30-83	05-05-83	.37	2.27	1.52	67.0	.16	.34	.37	.58	30.9
05-22-83	05-24-83	.20	.59	.22	37.6	.05	.13	.23	.47	9.13
06-06-83	06-08-83	.87	.44	.34	76.9	.04	.06	.12	.30	7.66
06-28-83	07-06-83	.79	2.01	.89	44.5	.31	.44	.91	.96	11.7
Summary statistics										
Maximum		1.06	2.27	1.52	85.8	0.31	0.44	0.91	0.96	36.3
Minimum		0.03	0.44	0.02	4.49	.03	.06	.12	.30	1.71
Mean		.56	1.07	.45	37.0	.11	.21	.36	.51	12.0
Median		.56	.90	.28	30.6	.08	.20	.30	.46	8.28
										28.8
										1.36
										9.50
										6.57

Table 32.--Rainfall-runoff data for Reitz Run at Waterville (04192900)

Beginning date	Ending date	Antecedent moisture index	Rain-fall (inches)	Run-off (inches)	Per-cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
06-28-82	06-29-82	0.45	1.09	0.18	17.0	0.20	0.57	0.91	1.00	6.30	6.43
07-03-82	07-05-82	.72	1.21	.27	22.4	.08	.15	.43	0.82	4.77	4.87
11-01-82	11-04-82	.46	3.44	.13	3.8	.25	.51	1.09	2.31	3.31	3.38
11-12-82	11-13-82	.72	0.57	.06	10.5	.11	.26	.33	.46	1.63	1.66
04-30-83	05-06-83	.44	2.20	1.64	74.5	.15	.24	.36	.61	20.0	20.4
06-06-83	06-07-83	.26	.94	.20	21.8	.09	.12	.23	.59	5.21	5.32
07-17-83	07-19-83	.02	1.34	.15	11.2	.36	.75	.81	.83	2.23	2.28
07-31-83	08-02-83	.77	1.82	.51	28.3	.29	.59	1.25	1.54	16.6	16.9
Summary statistics											
Maximum		0.77	3.44	1.64	74.5	0.36	0.75	1.25	2.31	20.0	20.4
Minimum		.02	0.57	0.06	3.8	.08	.12	0.23	0.46	1.63	1.66
Mean		.48	1.58	.39	23.7	.19	.40	.68	1.02	7.51	7.66
Median		.46	1.28	.19	19.4	.18	.38	.62	.82	4.99	5.10



Table 33.--Rainfall-runoff data for Browns Run near Crawford (04196825)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
11-24-81	11-27-81	0.72	0.36	0.33	91.7	0.02	0.06	0.17	0.25	10.9	5.45
05-20-82	05-21-82	.16	.44	.02	5.0	.05	.13	.33	.36	3.73	1.87
07-02-82	07-07-82	.77	2.05	1.01	49.3	.18	.30	.60	1.43	78.5	39.3
09-02-82	09-03-82	.08	.87	.02	1.8	.21	.54	.77	.86	1.31	0.655
11-01-82	11-04-82	.25	1.50	.06	3.8	.14	.21	.44	.65	2.89	1.45
11-12-82	11-13-82	.43	.31	.03	10.4	.08	.11	.20	.28	1.56	.780
04-30-83	05-10-83	.25	2.84	1.87	65.7	.08	.15	.26	.37	48.3	24.2
06-06-83	06-07-83	.49	.41	.03	6.3	.06	.14	.20	.35	1.84	.920
07-17-83	07-18-83	.00	.69	.00	0.6	.12	.23	.29	.40	1.00	.500
07-22-83	07-22-83	.47	.52	.00	.9	.10	.18	.35	.51	1.05	.525
08-04-83	08-05-83	.14	.84	.00	.4	.23	.50	.56	.56	2.00	1.00
08-31-83	08-31-83	.39	.77	.00	.3	.16	.32	.37	.75	0.857	.429
09-06-83	09-07-83	.62	1.28	.01	.9	.17	.36	.59	.64	3.86	1.93
09-16-83	09-17-83	.45	1.09	.03	2.6	.26	.38	.80	.82	5.32	2.66
09-20-83	09-22-83	.72	.77	.02	2.2	.05	.10	.32	.60	1.77	.855
Summary statistics											
Maximum-----		0.77	2.84	1.87	91.7	0.26	0.54	0.80	1.43	78.5	39.3
Minimum-----		.00	0.31	0.00	0.3	.02	.06	.17	0.25	0.857	0.429
Mean-----		.40	.98	.23	16.1	.13	.25	.42	.59	11.0	5.50
Median-----		.43	.77	.02	2.6	.12	.21	.35	.56	2.00	1.00

Table 34.--Rainfall-runoff data for Sandhill Creek near Monroeville (04198019)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi. <sup>2</sup> )
						5 min	15 min	60 min	180 min		
04-16-82	04-18-82	0.09	0.55	0.18	32.1	0.07	0.19	0.24	0.35	11.1	6.31
07-03-82	07-05-82	2.66	1.35	.46	33.7	.10	.26	.58	.87	77.1	43.8
04-30-83	05-10-83	.31	3.86	1.24	32.2	.17	.37	.46	.64	68.7	39.0
06-10-83	06-11-83	.56	1.06	.05	4.7	.43	.81	1.02	1.05	12.1	6.88
06-28-83	07-03-83	.11	1.65	.03	1.9	.16	.27	.44	.65	2.87	1.63
Summary statistics											
Maximum-----		2.66	3.86	1.24	33.7	0.43	0.81	1.02	1.05	77.1	43.8
Minimum-----		0.09	0.55	0.03	1.9	.07	.19	0.24	0.35	2.87	1.63
Mean-----		.73	1.69	.39	20.9	.19	.38	.55	.71	34.4	19.5
Median-----		.31	1.35	.18	32.1	.16	.27	.46	.65	12.1	6.88

Table 35.--Rainfall-runoff data for Delwood Run at Valley City (042013021)

Beginning date	Ending date	Antecedent moisture index	Rainfall (inches)	Runoff (inches)	Percent runoff	Maximum rainfall intensities (inches)			Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min		
11-19-81	11-20-81	0.03	1.39	0.38	27.3	0.05	0.10	0.23	6.29	14.0
06-15-82	06-18-82	.22	1.76	.72	40.9	.32	.35	.50	6.41	14.2
06-22-82	06-24-82	1.25	0.89	.72	80.9	.16	.22	.26	9.28	20.6
06-28-82	07-01-82	.66	1.89	1.53	81.0	.29	.49	.70	26.7	59.3
07-03-82	07-05-82	1.16	1.15	1.01	87.8	.05	.12	.36	9.56	21.2
08-04-82	08-04-82	.02	1.02	.15	14.7	.24	.43	.54	2.99	6.64
11-12-82	11-13-82	.64	.45	.52	81.2	.10	.15	.33	4.66	10.4
04-30-83	05-04-83	.33	4.09	3.86	94.4	.23	.58	.83	59.3	132
06-28-83	06-28-83	.19	2.47	.59	23.9	.29	.57	.92	34.8	77.3
07-01-83	07-02-83	2.42	2.65	2.47	93.2	.32	.68	1.07	214	476
09-06-83	09-07-83	1.28	1.36	.75	55.1	.18	.41	.61	9.98	22.2
Summary statistics										
Maximum	-----	2.42	4.09	3.86	94.4	0.32	0.68	1.07	214	476
Minimum	-----	0.02	0.45	0.15	14.7	.05	.10	0.23	2.99	6.64
Mean	-----	.75	1.74	1.15	61.9	.20	.37	.58	34.9	77.6
Median	-----	.64	1.39	.72	80.9	.23	.41	.54	9.56	21.2

Table 36.--Rainfall-runoff data for Fire Run at Auburn Corners (04201895)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge (ft <sup>3</sup> /s)	Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min		
08-15-81	08-17-81	0.98	1.05	0.79	75.2	0.06	0.11	0.29	0.64	4.47	18.6
11-19-81	11-21-81	.01	1.14	1.12	98.4	.08	.17	.29	.50	10.8	45.0
05-07-82	05-09-82	.00	0.86	.55	63.6	.02	.05	.14	.34	2.67	11.1
05-22-82	05-25-82	.09	1.50	.70	46.6	.19	.39	.53	.54	3.17	13.2
05-28-82	05-29-82	.90	1.11	.63	56.9	.34	.62	.77	.92	8.25	34.4
06-05-82	06-06-82	.69	1.10	.62	56.3	.02	.06	.18	.32	4.11	17.1
07-03-82	07-04-82	1.07	.92	.52	56.9	.06	.13	.25	.59	3.63	15.1
04-29-83	05-04-83	.10	2.66	2.49	93.6	.09	.20	.28	.39	14.5	60.4
05-22-83	05-26-83	.68	1.06	1.04	98.1	.07	.14	.26	.40	2.23	9.29
06-05-83	06-07-83	.26	.68	.51	75.0	.11	.18	.44	.54	2.15	8.96
06-18-83	06-18-83	.06	1.11	.05	4.5	.27	.60	1.11	1.11	3.39	14.1
06-28-83	06-29-83	.46	4.22	2.12	50.2	.25	.64	1.75	3.21	102	425
07-01-83	07-03-83	3.31	.54	.39	72.2	.08	.12	.28	.34	2.58	10.8
07-23-83	07-23-83	.39	1.31	.08	6.1	.29	.57	.87	.88	2.77	11.5
Summary statistics											
Maximum-----		3.31	4.22	2.49	98.4	0.34	0.64	1.75	3.21	102	425
Minimum-----		0.00	0.54	0.05	4.5	.02	.05	0.14	0.32	2.15	9.29
Mean-----		.64	1.38	.83	61.0	.14	.28	.53	.77	11.9	49.6
Median-----		.42	1.10	.62	60.2	.08	.18	.29	.54	3.51	14.6

Table 37.--Rainfall-runoff data for Hoskins Creek at Harts Grove (042101001)

Beginning date	Ending date	Ante- cedent moisture index	Rain- fall (inches)	Run- off (inches)	Per- cent runoff	Maximum rainfall intensities (inches)				Maximum discharge per square mile (ft <sup>3</sup> /s/mi <sup>2</sup> )
						5 min	15 min	60 min	180 min	
08-07-81	08-12-81	0.59	2.29	0.40	17.5	0.20	0.33	0.43	0.63	56.0
08-15-81	08-20-81	1.05	1.14	.20	17.1	.10	.21	.34	.77	22.6
09-03-81	09-09-81	.96	1.09	.06	5.1	.05	.13	.26	.48	9.59
09-14-81	09-15-81	.51	0.35	.00	0.5	.21	.27	.28	.32	6.55
09-30-81	10-06-81	.05	2.51	.91	36.2	.14	.29	.55	.78	57.1
11-19-81	12-07-81	.00	2.69	2.59	96.4	.12	.28	.49	.61	10.5
05-19-82	05-25-82	.00	2.48	.26	10.7	.35	.74	1.06	1.15	13.8
05-28-82	06-09-82	1.27	3.66	1.93	52.6	.14	.29	.45	.61	34.2
06-15-82	06-20-82	.05	1.69	.18	10.6	.18	.21	.28	.50	172
06-28-82	07-06-82	.18	3.79	1.34	35.3	.42	.79	1.03	1.29	23.5
10-31-82	11-07-82	.04	2.40	.20	8.3	.08	.16	.20	.33	114
11-11-82	11-15-82	.74	1.34	.36	27.2	.05	.10	.24	.34	21.9
04-29-83	05-07-83	.20	2.49	1.85	74.2	.08	.12	.15	.30	37.0
05-22-83	05-25-83	.53	1.16	.48	41.1	.15	.34	.49	.50	94.7
06-28-83	06-30-83	.24	2.37	.01	.6	.15	.19	.41	.59	85.4
09-21-83	09-25-83	.48	2.85	.05	1.8	.05	.12	.33	.69	7.45
										11.6
										21.0
										4.04
										6.83
										17.5
										15.8
										1.37
										2.14
Summary statistics										
Maximum	-----	1.27	3.79	2.59	96.4	0.42	0.79	1.06	1.29	172
Minimum	-----	0.00	0.35	0.00	0.5	.05	.10	0.15	0.30	6.55
Mean	-----	.43	2.14	.68	27.2	.15	.29	.44	.62	51.8
Median	-----	.36	2.38	.31	17.3	.14	.24	.38	.60	35.6
	-----									6.57

Table 38.--Daily-values rainfall data for Chestnut Creek near Barnesville (03113802)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												---
2												---
3												---
4												---
5												---
6												---
7												---
8												---
9												---
10												---
11												---
12												---
13												---
14												---
15												---
16												.00
17												.20
18												.01
19												.04
20												.01
21												.00
22												.00
23												.01
24												.00
25												.00
26												.00
27												.00
28												.00
29												.00
30												.00
31												---
TOTAL												0.27

WTR YR 1981 TOTAL 0.27

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 38.--Daily-values rainfall data for Chestnut Creek near Barnesville (03113802)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.49	.28	1.03	.00	.01	.03	.03	.00	.00	.00
2	.01	.00	.00	.00	.00	.00	.01	.00	.01	.00	.07	1.52
3	.00	.00	.01	.09	.09	.45	.25	.00	.00	1.69	.01	.01
4	.00	.00	.20	.35	.17	.07	.00	.00	.11	.89	.00	.00
5	.00	.42	.04	.11	.00	.36	.08	.00	.35	.02	.00	.00
6	.27	.13	.08	.00	.02	.00	.12	.01	.15	.00	.00	.00
7	.00	.00	.08	.06	.00	.20	.00	.06	.00	.07	.00	.00
8	.01	.01	.02	.00	.00	.01	.00	1.17	.00	.20	.58	.00
9	.00	.28	.00	.02	.41	.00	.17	.00	.17	.00	.47	.00
10	.00	.00	.00	.10	.08	.00	.03	.00	.06	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.02	.00	.00	.25	.43	.01
12	.00	.02	.00	.00	.00	.50	.01	.00	.00	.00	.00	.00
13	.00	.00	.00	.05	.01	.12	.02	.00	.00	.00	.00	.00
14	.00	.00	.00	.08	.00	.02	.00	.00	.00	.02	.00	.01
15	.00	.01	.07	.01	.00	.00	.00	.00	.00	.00	.00	.02
16	.01	.00	.00	.12	.11	.11	.17	.00	.97	.00	.01	.01
17	.01	.00	.03	.00	.20	1.10	.16	.00	.00	.00	.00	.00
18	.41	.00	.15	.01	.23	.00	.00	.00	.00	.00	.00	.01
19	.12	.60	.03	.00	.30	.14	.00	.23	.05	.24	.00	.00
20	.01	.23	.03	.00	.03	.27	.01	.66	.00	.12	.38	.09
21	.00	.02	.00	.06	.09	.02	.00	.01	.00	.00	.00	.13
22	.20	.00	.21	.00	.05	.00	.00	.02	.01	.00	.00	.01
23	.47	.02	.37	.76	.00	.00	.00	.11	.01	.18	.34	.00
24	.00	.17	.00	.07	.00	.00	.00	.00	.00	.00	1.25	.04
25	.02	.02	.00	.00	.00	.20	.00	.00	.00	.00	.08	.23
26	.24	.01	.00	.09	.00	.01	.13	.00	.00	.00	.00	.57
27	.14	.00	.01	.00	.00	.00	.00	.00	.00	.17	.00	.22
28	.01	.00	.13	.00	.00	.00	.00	.89	.00	.17	.00	.01
29	.00	.00	.08	.00	---	.00	.00	.46	1.11	.00	.00	.02
30	.00	.00	.00	.01	---	.03	.00	.08	.08	.00	.00	.00
31	.00	---	.00	.39	---	.71	---	.01	---	.00	.00	---
TOTAL	1.93	1.94	2.03	2.66	2.82	4.32	1.19	3.74	3.11	4.02	3.62	2.91
WTR YR 1982 TOTAL	34.29											

Table 38.--Daily-values rainfall data for Chestnut Creek near Barnesville (03113802)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.03	.01	.00	.00	.00	.00	.25	.03	.00	.39	.00
2	.00	.00	.04	.00	.58	.00	.00	.87	.00	.28	.00	.00
3	.00	.92	.02	.00	.68	.00	.91	.65	.47	.02	.00	.00
4	.00	.54	.00	.00	.04	.00	.13	.34	.57	.55	.00	.00
5	.00	.00	.00	.00	.01	.00	.06	.00	.01	.78	.70	.16
6	.00	.00	.35	.00	.00	.00	.33	.00	.02	.00	.01	.00
7	.02	.00	.03	.00	.11	.22	.34	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.10	.82	.07	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.73	.91	.01	.00	.00	.00	.00
10	.00	.00	.00	.07	.00	.21	.15	.00	.00	.00	.00	.00
11	.00	.04	.22	.30	.06	.30	.09	.00	.00	.00	.15	.00
12	.00	.31	.00	.07	.25	.09	.00	.00	.00	.00	.01	.05
13	.00	.01	.00	.00	.00	.00	.15	.00	.00	.00	.00	.49
14	.00	.00	.00	.00	.00	.00	.81	.48	.00	.00	.00	.00
15	.00	.00	.06	.03	.00	.00	.37	.93	1.24	.00	.00	.00
16	.00	.00	1.46	.03	.00	.00	.00	.04	.00	.00	.00	1.45
17	.00	.01	.00	.00	.00	.00	.00	.00	.01	.38	.13	.00
18	.00	.04	.00	.02	.00	.02	.00	.00	.06	.01	.00	.00
19	.00	.00	.29	.00	.00	.71	.00	.66	.14	.00	.00	.00
20	.14	.29	.38	.00	.00	.27	.00	.01	.00	.18	.01	.00
21	.00	.41	.03	.00	.00	.31	.00	.11	.00	.64	.00	.30
22	.00	.12	.00	.07	.00	.03	.00	.90	.00	.04	.00	.00
23	.00	.07	.56	.14	.00	.00	.04	.05	.00	1.11	.00	.00
24	.00	.56	.37	.06	.00	.00	.51	.00	.00	.01	.00	.00
25	.00	.06	.08	.00	.17	.00	.00	.07	.00	.00	.00	.00
26	.00	.00	.53	.00	.00	.00	.01	.00	.00	.00	.00	.00
27	.00	.28	.42	.00	.00	.07	.00	.00	.01	.00	.02	.00
28	.00	.09	.09	.00	.00	.29	.00	.05	.31	.00	.00	.00
29	.00	.92	.00	.00	---	.17	.40	.37	.01	.00	.01	.00
30	.00	.02	.00	.08	---	.00	.24	.01	1.15	.00	.01	.13
31	.13	---	.00	.24	---	.04	---	.00	---	.09	.11	---
TOTAL	0.29	4.72	4.94	1.11	1.90	3.56	6.27	5.87	4.03	4.09	1.78	2.58
WTR YR 1983	TOTAL 41.14											



Table 39.--Daily-values rainfall data for Barnes Run at Summerfield (03115596)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.53	.45	.80	.00	.02	.03	.06	.00	.00	.07
2	---	---	.00	.00	.00	.00	.02	.00	.01	.00	.23	1.49
3	---	---	.00	.41	.12	.09	.29	.00	.00	2.64	.00	.01
4	.01	.18	.03	.24	.00	.41	.00	.00	.18	.10	.00	.00
5	.34	.03	.03	.00	.00	.00	.12	.00	.18	.01	.01	.00
6	.11	.04	.04	.00	.00	.00	.12	.00	.06	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.01	.11	.00	.52	.23	.00
8	.00	.04	.04	.00	.00	.00	.01	.68	.00	.29	.86	.00
9	.35	.01	.01	.00	.52	.00	.21	.00	.00	.01	1.53	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00
11	.00	.00	.00	.05	.00	.10	.01	.00	.00	.35	.54	.00
12	.00	.00	.00	.00	.00	.21	.01	.00	.00	.00	.01	.00
13	.00	.00	.00	.10	.00	.90	.01	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.45	.01	.00	.00	.00	.00	.15
15	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.02
16	.00	.00	.00	.17	.12	.10	.20	.00	1.88	.00	.00	.00
17	.00	.00	.00	.00	.11	.68	.18	.00	.01	.00	.00	.00
18	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.12	.04	.04	.00	.07	.21	.00	.28	.01	.33	.00	.00
20	.15	.00	.00	.00	.00	.41	.01	1.61	.00	.28	.07	.07
21	.01	.05	.05	.00	.00	.14	.00	.07	.01	.00	.00	.11
22	.00	.22	.22	.00	.00	.00	.00	.03	.00	.00	.00	.00
23	.12	.07	.07	1.10	.00	.01	.00	.01	.00	.00	.10	.01
24	.32	.00	.00	.04	.00	.01	.00	.01	.00	.00	1.46	.02
25	.00	.00	.00	.00	.09	.27	.00	.00	.00	.00	.05	.17
26	.00	.00	.00	.00	.00	.01	.09	.00	.00	.00	.00	.53
27	.00	.09	.09	.00	.00	.00	.00	.01	.11	.00	.00	.24
28	.00	.11	.11	.10	.00	.01	.00	.84	.04	.02	.00	.00
29	.00	.14	.14	.00	---	.02	.00	.77	.07	.00	.00	.02
30	.00	.00	.00	.00	---	.02	.00	.12	.01	.00	.00	.00
31	---	.00	.00	.20	---	.63	---	.00	---	.00	.03	---
TOTAL	1.53	2.51	2.86	1.83	4.68	1.32	4.57	2.99	4.55	5.12	2.91	
WTR YR 1982 TOTAL	34.87											

Table 39.--Daily-values rainfall data for Barnes Run at Summerfield (03115596)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.12	.00	.00	.00	.00	.19	.04	.02	.14	.00
2	.00	.00	.27	.00	.05	.00	.00	1.00	.00	.93	.01	.00
3	.00	.95	.00	.00	.60	.00	.45	.69	.60	.01	.00	.00
4	.00	.51	.00	.00	.00	.00	.30	.31	.20	.51	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.01	.00	.06	.71	.00
6	.00	.00	.08	.00	.06	.00	.21	.00	.30	.00	.00	.00
7	.04	.00	.03	.00	.11	.12	.33	.00	.00	.00	.00	.00
8	.01	.00	.05	.00	.00	.32	.94	.07	.01	.00	.00	.00
9	.28	.00	.05	.00	.00	.93	1.08	.01	.00	.00	.00	.00
10	.01	.00	.00	.04	.00	.00	.09	.00	.00	.00	.00	.00
11	.01	.00	.22	.43	.11	.00	.12	.00	.00	.00	.35	.14
12	.00	.32	.00	.08	.14	.00	.01	.00	.00	.00	.01	.12
13	.00	.01	.00	.00	.00	.00	.12	.00	.00	.00	.00	.23
14	.00	.00	.00	.00	.00	.00	.80	.24	.00	.00	.00	.00
15	.02	.00	.00	.03	.00	.00	.31	.97	.00	.00	.00	.00
16	.00	.00	1.58	.04	.00	.00	.01	.15	.00	.00	.00	1.52
17	.00	.00	.00	.03	.00	.00	.00	.00	.00	.16	.00	.05
18	.00	.01	.00	.03	.00	.11	.00	.00	.03	.01	.20	.00
19	.00	.00	.37	.00	.00	.61	.01	.79	.13	.64	.01	.00
20	.11	.31	.07	.00	.00	.00	.01	.02	.01	.10	.00	.00
21	.00	.23	.00	.00	.00	.06	.00	.24	.00	.71	.00	.34
22	.00	.10	.00	.24	.00	.18	.00	.97	.00	.20	.00	.01
23	.00	.64	.75	.03	.00	.04	.08	.00	.00	.93	.31	.00
24	.00	.09	.52	.11	.00	.00	.37	.00	.00	.01	.00	.00
25	.00	.00	.17	.01	.00	.00	.01	.10	.00	.00	.00	.00
26	.00	.00	.41	.00	.05	.00	.01	.01	.00	.01	.00	.00
27	.00	.23	.36	.00	.00	.16	.01	.00	.00	.00	.05	.00
28	.00	.16	.25	.00	.00	.27	.01	.05	.51	.00	.06	.00
29	.00	.83	.00	.00	---	.10	.29	.70	.01	.00	.00	.00
30	.01	.07	.00	.26	---	.00	.36	.01	.78	.00	.00	.05
31	.12	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.61	4.47	5.30	1.33	2.12	2.90	5.93	6.53	2.62	4.30	1.86	2.46
WTR YR 1983 TOTAL	40.43											

Table 40.--Daily-values rainfall data for Falling Branch at Sherrodsville (03120580)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												.09
19												.01
20												.17
21												.00
22												.00
23												.05
24												.01
25												.00
26												.00
27												.00
28												.01
29												.00
30												.00
31												
TOTAL												0.34
WTR YR 1981	TOTAL											0.34

Table 40.--Daily-values rainfall data for Falling Branch at Sherrodsville (03120580)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982												
SUMMATION VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.00	.53	.29	1.10	.00	.02	.01	.37	.01	.00	.00
2	.00	.00	.04	.00	.00	.00	.00	.00	.01	.02	.00	1.56
3	.00	.00	.01	.02	.02	.49	.35	.00	.00	.78	.45	.02
4	.00	.00	.13	.29	.26	.05	.00	.00	.04	.01	.39	.01
5	.00	.01	.01	.01	.00	.39	.09	.00	.41	.01	.00	.01
6	.47	.37	.00	.00	.03	.00	.14	.01	.08	.00	.00	.01
7	.03	.02	.25	.23	.00	.06	.00	.17	.01	.00	.01	.00
8	.00	.00	.05	.00	.00	.00	.03	.56	.00	.14	.07	.01
9	.00	.05	.02	.11	.39	.05	.15	.00	.16	.44	.02	.01
10	.00	.00	.00	.03	.01	.00	.01	.00	.08	.00	.00	.01
11	.00	.00	.00	.00	.00	.05	.02	.00	.01	.00	.06	.01
12	.00	.00	.00	.00	.00	.27	.03	.00	.00	.03	.01	.01
13	.00	.00	.00	.05	.01	.20	.04	.00	.00	.00	.00	.01
14	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.02
15	.00	.00	.00	.01	.00	.00	.01	.01	.25	.00	.00	.01
16	.00	.00	.00	.09	.15	1.13	.07	.00	1.47	.00	.01	.00
17	.00	.00	.03	.00	.15	.01	.12	.00	.02	.00	.01	.01
18	.02	.00	.25	.03	.53	.02	.00	.00	.01	.00	.00	.01
19	.10	.76	.00	.00	.12	.16	.00	.45	.01	.06	.00	.00
20	.00	.31	.01	.00	.04	.25	.01	.17	.04	.07	.09	.01
21	.00	.00	.00	.00	.03	.64	.00	.04	.01	.00	.07	.41
22	.00	.00	.28	.00	.01	.00	.00	.29	.28	.00	.00	.17
23	.47	.08	.70	.89	.00	.02	.00	.07	.00	.03	.09	.02
24	.01	.02	.00	.03	.00	.00	.00	.00	.01	.00	.07	.01
25	.00	.00	.00	.00	.00	.09	.00	.00	.01	.00	.85	.14
26	.18	.05	.00	.04	.00	.03	.32	.01	.01	.00	.01	.03
27	.01	.00	.00	.00	.00	.00	.10	.01	.01	.00	.01	.03
28	.00	.00	.14	.00	.00	.00	.00	.37	.36	.17	.00	.06
29	.00	.00	.06	.00	---	.00	.00	.01	.27	.00	.01	.01
30	.00	.00	.00	.17	---	.05	.00	.11	.04	.00	.01	.02
31	.00	---	.00	.60	---	.66	---	.00	---	.00	.00	---
TOTAL	1.31	1.67	2.51	3.01	2.85	4.65	1.51	2.29	3.97	1.77	2.24	3.41
WTR YR 1982 TOTAL	31.19											

Table 40.--Daily-values rainfall data for Falling Branch at Sherrodsville (03120580)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.24	.00	.00	.00	.00	.00	.24	.10	.01	1.62	.01
2	.02	.00	.03	.00	.57	.00	.00	.81	.00	.45	.01	.01
3	.01	.62	.00	.00	.27	.00	.55	.71	.35	.02	.01	.01
4	.01	.48	.00	.00	.02	.00	.07	.12	.02	.73	.03	.01
5	.01	.00	.00	.00	.02	.00	.00	.00	.00	.02	.07	.00
6	.01	.00	.27	.00	.01	.00	.11	.00	.01	.01	.06	.00
7	.37	.00	.09	.00	.15	.11	.29	.00	.00	.01	.02	.68
8	.02	.00	.00	.00	.01	.00	.48	.15	.00	.00	.01	.00
9	.01	.01	.00	.00	.01	1.29	1.55	.01	.01	.01	.00	.01
10	.03	.01	.00	.00	.00	.15	.16	.00	.01	.01	.01	.01
11	.04	.16	.26	.37	.00	.41	.02	.00	.01	.01	.12	.16
12	.00	.47	.00	.08	.09	.02	.02	.00	.00	.01	.02	.94
13	.00	.02	.00	.00	.00	.00	.14	.01	.00	.01	.01	.01
14	.01	.02	.00	.00	.00	.00	1.23	.42	.00	.01	.01	.00
15	.03	.00	.01	.05	.00	.00	.10	.40	.01	.56	.01	.00
16	.01	.00	.43	.10	.00	.00	.00	.00	.01	.01	.01	.78
17	.00	.00	.02	.00	.00	.00	.03	.00	.83	.92	.01	.01
18	.00	.00	.00	.00	.00	.00	.01	.00	.01	.94	.01	.02
19	.00	.00	.49	.00	.00	.61	.00	.66	.67	.21	.02	.01
20	.07	.21	.23	.00	.00	.12	.00	.01	.22	.02	.04	.22
21	.00	.39	.01	.00	.00	.15	.00	.01	.01	.31	.01	.88
22	.01	.52	.00	.00	.00	.01	.01	1.25	.01	.06	.01	.01
23	.00	.01	.05	.21	.00	.00	.02	.01	.01	.66	.00	.14
24	.00	.30	.08	.07	.00	.00	.25	.01	.01	.06	.00	.03
25	.00	.02	.00	.00	.04	.00	.00	.20	.01	.01	.00	.02
26	.01	.04	.21	.00	.00	.00	.02	.00	.01	.02	.00	.04
27	.01	.41	.18	.01	.00	.13	.02	.01	.13	.01	.34	.02
28	.01	.05	.30	.00	.00	.25	.15	.00	.39	.01	.26	.03
29	.01	.74	.03	.00	---	.02	.36	.45	.01	.00	.01	.02
30	.01	.01	.00	.08	---	.00	1.54	.01	.48	.00	.28	.02
31	.08	---	.00	.21	---	.00	---	.01	---	.35	.27	---
TOTAL	0.81	4.73	2.69	1.18	1.19	3.27	7.13	5.50	3.33	5.46	3.28	4.10
WTR YR 1983 TOTAL	42.67											

Table 41.--Daily-values rainfall data for Cattail Creek at Baltic (03123060)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.44	.28	.90	.00	.05	.01	.25	.00	.00	.00
2	---	---	.00	.00	.00	.00	.00	.00	.01	.00	.01	1.28
3	---	---	.00	.05	.04	.34	.49	.00	.01	1.36	.00	.00
4	---	---	.06	.45	.29	.14	.00	.00	.02	.02	.41	.00
5	.18	.05	.06	.05	.00	.25	.00	.00	.24	.00	.00	.00
6	.06	.00	.11	.00	.02	.00	.28	.00	.03	.00	.00	.00
7	.01	.01	.00	.19	.00	.01	.00	.21	.00	.25	.00	.00
8	.01	.01	.11	.00	.00	.01	.00	.46	.00	.00	1.23	.00
9	.05	.03	.03	.09	.20	.01	.17	.00	.31	.00	.01	.00
10	.01	.00	.00	.02	.00	.00	.00	.00	.01	.00	.00	.00
11	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.05	.00
12	.00	.00	.00	.00	.00	.60	.00	.00	.00	.00	.00	.00
13	.01	.00	.00	.07	.00	.40	.02	.00	.05	.00	.00	.00
14	.02	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.05
15	.01	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00
16	.01	.01	.00	.08	.14	.09	.05	.00	1.10	.00	.00	.00
17	.01	.00	.06	.00	.17	.90	.08	.00	.00	.00	.00	.00
18	.00	.00	.20	.00	.45	.00	.00	.00	.01	.26	.00	.02
19	.00	.00	.00	.00	.17	.00	.00	.15	.00	.95	.00	.00
20	1.09	.00	.00	.00	.00	.44	.04	.09	.00	.39	.33	.04
21	.11	.00	.00	.04	.00	.03	.00	.09	.06	.00	.00	.00
22	.00	.00	.18	.00	.00	.00	.00	.02	.01	.00	.00	.01
23	.00	.00	.72	1.36	.00	.00	.00	.00	.00	.07	.25	.00
24	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.18
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.79	.01
26	.00	.00	.00	.05	.00	.10	.03	.00	.00	.00	.01	.37
27	.06	.00	.01	.00	.00	.00	.07	.00	.04	.20	.00	.40
28	.00	.00	.14	.00	.00	.00	.01	.23	.03	.04	.00	.01
29	.00	.00	.07	.00	---	.00	.00	.04	.57	.00	.00	.02
30	.00	.00	.00	.23	---	.03	.00	.16	.42	.00	.00	.01
31	---	---	.00	.86	---	.64	---	.00	---	.01	.00	---
TOTAL	1.73	2.19	3.89	2.38	4.01	1.29	1.46	3.25	3.75	3.29	2.40	
WTR YR 1982 TOTAL	29.64											

Table 41.--Daily-values rainfall data for Cattail Creek at Baltic (03123060)--Continued  
 RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
 SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.08	.00	.00	.00	.00	.00	.13	.02	.01	1.71	.00
2	.01	.00	.02	.00	.49	.00	.00	.67	.00	.42	.01	.00
3	.01	.40	.00	.00	.72	.00	.00	.67	.22	.00	.00	.00
4	.01	.28	.00	.00	.11	.00	.04	.07	.00	1.17	.04	.00
5	.01	.00	.00	.00	.02	.00	.01	.01	.00	.01	.00	.23
6	.01	.00	.70	.00	.00	.00	.08	.00	.00	.00	.00	.00
7	.22	.00	.05	.00	.15	.00	.19	.05	.01	.00	.00	.86
8	.01	.00	.00	.00	.00	.00	.42	.08	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.36	1.28	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.02	.14	.00	.00	.00	.00	.00
11	.01	.18	.15	.40	.00	.20	.05	.00	.00	.01	.02	.00
12	.00	.71	.00	.04	.17	.00	.01	.00	.00	.00	.01	.68
13	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.01	.01
14	.00	.00	.00	.00	.00	.00	1.03	.08	.00	.00	.01	.00
15	.00	.00	.10	.00	.00	.00	.00	.41	.00	.00	.01	.00
16	.00	.02	.61	.04	.00	.00	.01	.01	.00	.00	.00	.68
17	.01	.00	.00	.00	.00	.00	.00	.00	.21	.72	.00	.00
18	.01	.00	.00	.01	.00	.09	.00	.00	.00	.01	.01	.01
19	.01	.00	.42	.00	.00	.38	.00	.65	1.18	.03	.00	.00
20	.10	.34	.36	.00	.00	.08	.01	.00	.04	.31	.00	.08
21	.00	.50	.01	.00	.00	.28	.00	.00	.00	.12	.00	.65
22	.01	.58	.00	.00	.00	.50	.00	1.07	.00	.01	.00	.00
23	.00	.00	.07	.39	.00	.00	.00	.00	.00	.44	.00	.00
24	.01	.40	.08	.11	.00	.00	.23	.00	.00	.07	.00	.01
25	.01	.00	.00	.00	.02	.00	.00	.11	.00	.01	.00	.01
26	.00	.02	.15	.00	.00	.00	.01	.01	.00	.00	.00	.03
27	.00	.43	.34	.00	.00	.17	.01	.00	.00	.00	.00	.01
28	.00	.04	.30	.00	.00	.44	.19	.00	.86	.00	.43	.02
29	.03	.69	.00	.00	---	.03	.27	.58	.00	.00	.00	.02
30	.01	.00	.00	.20	---	.00	1.44	.00	.52	.00	.22	.02
31	.11	---	.00	.16	---	.00	---	.00	---	.14	.18	---
TOTAL	0.61	4.67	3.36	1.35	1.69	2.63	6.44	4.60	3.06	3.48	2.66	3.32

WTR YR 1983 TOTAL 37.87

Table 42.--Daily-values rainfall data for Dundee Creek at Dundee (03123400)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.14
2												1.37
3												.41
4												.59
5												.00
6											.00	.00
7											.00	.00
8											.00	.27
9											.00	.00
10											.00	.00
11											.05	.00
12											.00	.00
13											.00	.00
14											.00	.00
15											.07	.03
16											.41	.00
17											.00	.12
18											.00	.11
19											.00	.12
20											.00	.00
21											.00	.00
22											.00	.05
23											.00	.00
24											.00	.00
25											.00	.00
26											.00	.00
27											.00	.00
28											.03	.00
29											.00	.00
30											.90	.02
31											.11	---
TOTAL											1.61	3.23

WTR YR 1981 TOTAL 4.84

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR



Table 42.--Daily-values rainfall data for Dundee Creek at Dundee (03123400)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.42	.19	1.14	.00	.02	.03	.29	.00	.00	.01
2	.00	.00	.00	.00	.00	.00	.04	.00	.01	.00	.97	1.40
3	.00	.00	.01	.00	.06	.55	.49	.01	.00	1.26	.00	.00
4	.01	.00	.16	.35	.33	.13	.00	.01	.00	.14	.42	.00
5	.00	.68	.00	.04	.00	.19	.12	.01	.19	.01	.01	.00
6	.48	.05	.00	.00	.01	.00	.19	.01	.04	.00	.00	.00
7	.01	.00	.23	.24	.00	.03	.01	.18	.01	.72	.00	.00
8	.00	.00	.07	.00	.00	.00	.03	.41	.00	.04	.28	.00
9	.01	.07	.03	.16	.45	.02	.15	.00	.20	.01	.00	.00
10	.00	.00	.00	.01	.01	.00	.02	.00	.01	.00	.00	.02
11	.00	.00	.00	.01	.00	.02	.02	.00	.00	.00	.03	.01
12	.00	.00	.00	.00	.00	.50	.03	.00	.00	.00	.00	.00
13	.02	.00	.00	.11	.03	.22	.01	.01	.00	.00	.00	.00
14	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.03
15	.00	.00	.00	.00	.00	.00	.01	.00	.75	.00	.00	.01
16	.00	.00	.00	.13	.10	.81	.04	.00	.71	.00	.00	.00
17	.00	.02	.03	.00	.08	.00	.07	.01	.02	.36	.00	.00
18	.17	.00	.36	.03	.00	.01	.00	.00	.01	.04	.00	.00
19	.03	1.49	.00	.00	.14	.17	.00	.38	.02	.03	.00	.00
20	.00	.17	.01	.00	.01	.22	.02	.19	.14	.09	.07	.00
21	.00	.00	.00	.05	.00	.12	.00	.12	.02	.01	.01	.00
22	.25	.00	.21	.00	.00	.00	.00	.00	.01	.00	.00	.00
23	.31	.01	.91	.75	.00	.02	.00	.00	.00	.00	.18	.00
24	.01	.06	.00	.02	.01	.00	.00	.00	.00	.01	.11	.22
25	.00	.00	.00	.00	.00	.05	.01	.00	.00	.00	1.16	.03
26	.20	.05	.00	.04	.00	.01	.06	.00	.00	.00	.01	.40
27	.00	.01	.03	.00	.00	.01	.20	.00	.18	.13	.00	.46
28	.00	.00	.05	.00	.00	.04	.00	.25	.33	.01	.00	.01
29	.00	.00	.08	.00	---	.00	.00	.01	.37	.00	.00	.01
30	.00	.00	.00	.18	---	.08	.00	.13	.02	.00	.00	.02
31	.00	---	.00	.72	---	.61	---	.02	---	.00	.01	---
TOTAL	1.50	2.61	2.60	3.15	2.37	3.81	1.54	1.78	3.33	2.86	3.26	2.63
WTR YR 1982 TOTAL	31.44											

Table 42.--Daily-values rainfall data for Dundee Creek at Dundee (03123400)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.15	.00	.00	.00	.00	.00	.15	.01	.02	.04	.01
2	.01	.00	.02	.00	.66	.00	.00	1.40	.00	1.10	.00	.00
3	.01	.43	.00	.00	.23	.00	.66	.73	.27	.01	.00	.00
4	.02	.33	.00	.00	.06	.00	.03	.05	.05	.69	.07	.00
5	.02	.00	.00	.00	.04	.00	.01	.00	.00	.01	.16	.24
6	.01	.00	.49	.00	.00	.00	.06	.00	.07	.00	.00	.00
7	.37	.00	.06	.00	.15	.08	.22	.02	.00	.01	.00	.38
8	.04	.01	.00	.00	.00	.00	.21	.05	.00	.01	.00	.00
9	.00	.00	.00	.00	.00	.87	1.13	.01	.00	.01	.00	.00
10	.02	.00	.00	.00	.00	.07	.10	.00	.00	.01	.00	.00
11	.01	.15	.19	.44	.00	.68	.03	.00	.00	.00	.03	.12
12	.00	.68	.00	.05	.15	.02	.01	.00	.00	.01	.01	.01
13	.01	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00
14	.01	.00	.00	.00	.00	.00	1.08	.54	.00	.01	.00	.00
15	.01	.00	.01	.03	.00	.00	.01	.35	.00	.01	.00	.00
16	.01	.01	.63	.05	.00	.00	.01	.00	.00	.01	.00	.92
17	.02	.00	.01	.00	.00	.00	.02	.00	.17	.23	.00	.01
18	.01	.00	.00	.01	.00	.00	.00	.00	.00	.02	.00	.01
19	.01	.01	.63	.00	.00	.39	.02	.47	.86	.03	.00	.00
20	.11	.15	.28	.00	.00	.30	.00	.00	.05	.01	.00	.00
21	.00	.50	.01	.00	.00	.35	.00	.00	.00	.32	.00	.71
22	.00	.43	.00	.15	.00	.00	.00	.90	.00	.12	.00	.00
23	.01	.00	.10	.10	.00	.00	.00	.03	.00	.38	.00	.00
24	.00	.47	.10	.07	.00	.00	.26	.01	.00	.08	.00	.00
25	.01	.00	.00	.00	.00	.00	.01	.09	.00	.00	.00	.00
26	.00	.03	.10	.01	.01	.00	.01	.00	.00	.00	.00	.03
27	.00	.39	.18	.00	.00	.13	.01	.00	.00	.00	.00	.00
28	.00	.04	.33	.00	.00	.75	.13	.01	1.38	.00	.11	.01
29	.02	.77	.00	.00	---	.03	.24	.44	.01	.00	.01	.00
30	.01	.05	.00	.13	---	.00	1.58	.00	.36	.00	.26	.01
31	.06	---	.00	.15	---	.00	---	.00	---	.60	.39	---
TOTAL	0.83	4.60	3.14	1.19	1.30	3.67	5.96	5.25	3.23	3.70	1.88	2.46
WTR YR 1983 TOTAL	37.21											

Table 43.--Daily-values rainfall data for Slim Creek at Karkersville (03144865)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.48	.00	.00	.00	.00	.00	.14	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.81
3	.00	.00	.00	.10	.00	.31	.64	.00	.01	1.14	.00	.02
4	.00	.00	.21	.46	.00	.17	.00	.01	.13	.02	.40	.00
5	.00	.33	.00	.05	.00	.24	.40	.01	.22	.00	.00	.00
6	.31	.07	.00	.00	.02	.00	.01	.01	.01	.00	.00	.00
7	.00	.01	.00	.14	.00	.00	.01	.18	.01	.50	.00	.00
8	.00	.00	.00	.00	.00	.00	.01	.72	.00	.04	.54	.00
9	.01	.29	.00	.10	.36	.00	.18	.01	.33	.00	.02	.00
10	.00	.00	.00	.00	.00	.00	.07	.01	.04	.04	.01	.00
11	.02	.00	.00	.02	.00	.00	.01	.00	.00	.00	.10	.00
12	.02	.01	.00	.07	.00	.00	.02	.00	.03	.00	.00	.00
13	.01	.00	.00	.08	.00	.00	.00	.00	.02	.00	.00	.00
14	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	1.04
15	.00	.00	.01	.03	.00	.03	.00	.00	.29	.00	.00	.04
16	.03	.00	.00	.13	.60	1.34	.28	.00	.89	.00	.00	.00
17	.00	.02	.05	.00	.32	.00	.25	.00	.01	.79	.00	.00
18	.35	.01	.09	.02	.38	.02	.00	.05	.00	.84	.01	.00
19	.04	.85	.01	.00	.16	.32	.00	.04	.02	.11	.01	.01
20	.01	.01	.00	.00	.00	.31	.02	.44	.04	.00	.10	.41
21	.00	.00	.00	.05	.02	.00	.00	.14	.01	.01	.00	.00
22	.32	.01	.45	.00	.00	.00	.00	.93	.01	.02	.00	.00
23	.16	.09	.37	1.70	.00	.02	.00	.19	.00	.00	.13	.02
24	.02	.26	.00	.00	.00	.00	.00	.00	.00	.00	.62	.06
25	.07	.11	.00	.00	.00	.18	.00	.00	.00	.00	.20	.03
26	.36	.20	.00	.00	.00	.01	.03	.01	.00	.00	.01	.21
27	.11	.00	.00	1.30	.00	.01	.01	.34	.04	.41	.00	.21
28	.01	.00	.00	.00	.00	.00	.00	.15	.14	.01	.00	.00
29	.00	.00	.31	.00	---	.00	.00	1.30	1.21	.00	.00	.00
30	.00	.01	.00	.56	---	.08	.00	.05	.00	.01	.06	.01
31	.00	---	.00	.99	---	.99	---	.03	---	.00	.00	---
TOTAL	1.86	2.28	1.98	5.92	1.86	4.03	1.95	4.62	3.61	3.94	2.21	2.87

WTR YR 1982 TOTAL 37.13

Table 43.--Daily-values rainfall data for Slim Creek at Karkersville (03144865)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.04	.05	.00	.00	.00	.00	.29	.06	.19	.36	.01
2	.02	.08	.00	.00	.42	.00	.00	.96	.00	.00	.00	.00
3	.01	.30	.00	.00	.31	.00	1.10	.89	.33	.06	.00	.00
4	.00	.28	.00	.00	.09	.00	.11	.11	.02	.29	.01	.00
5	.01	.00	.65	.00	.00	.00	.65	.00	.00	.02	.00	.00
6	.01	.00	.06	.00	.00	.03	.19	.00	.00	.00	.01	.00
7	.38	.00	.00	.00	.13	.02	.17	.03	.00	.02	.00	.00
8	.01	.01	.00	.00	.00	.00	1.14	.06	.00	.01	.00	.00
9	.24	.00	.00	.00	.00	.00	.48	.00	.00	.01	.00	.00
10	.03	.00	.15	.00	.00	.25	.03	.00	.00	.01	.00	.00
11	.02	.22	.00	.32	.05	.00	.08	.00	.00	.01	.18	.03
12	.01	.64	.00	.08	.16	.00	.01	.01	.00	.01	.00	.33
13	.01	.00	.00	.00	.00	.00	.30	.00	.00	.01	.00	.02
14	.01	.00	.19	.00	.00	.00	.89	.35	.00	.00	.00	.00
15	.00	.00	1.05	.06	.00	.00	.00	1.59	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	1.03
17	.01	.00	.00	.00	.00	.00	.04	.00	.24	.62	.01	.01
18	.02	.00	.65	.00	.00	.02	.00	.00	.15	.40	.20	.01
19	.02	.00	.24	.00	.00	.40	.00	.45	1.64	.01	.00	.00
20	.14	.72	.00	.00	.00	.02	.00	.01	.00	.13	.00	.11
21	.00	.94	.00	.00	.00	.06	.00	.00	.00	.01	.14	.55
22	.01	.50	.12	.29	.00	.02	.01	1.02	.00	.84	.46	.00
23	.01	.00	.00	.11	.00	.00	.09	.00	.00	.11	.00	.00
24	.01	.00	.13	.00	.04	.00	.07	.01	.00	.03	.00	.01
25	.01	.00	.31	.02	.00	.00	.00	.13	.00	.00	.00	.01
26	.00	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00
27	.00	1.27	.32	.00	.00	.08	.01	.00	.01	.00	.03	.00
28	.00	.01	.47	.00	.00	.39	.01	.18	.64	.00	1.01	.02
29	.06	.00	.00	.00	---	.09	.01	.20	.05	.00	.01	.02
30	.01	.00	.00	.31	---	.00	2.80	.00	.95	.00	.00	.02
31	.15	---	.00	.11	---	.00	---	.00	---	.14	.05	---
TOTAL	1.23	5.01	4.39	1.30	1.20	1.46	8.20	6.30	4.11	2.93	2.47	2.18
WTR YR 1983 TOTAL	40.78											

Table 44.--Daily-values rainfall data for Claypit Creek near Roseville (03148395)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL												0.00
WTR YR 1981	TOTAL											0.00

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 44.--Daily-values rainfall data for Claypit Creek near Roseville (03148395)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.63	.25	.31	.00	.00	.04	.06	.01	.00	.00
2	.00	.00	.00	.00	.00	.00	.04	.01	.01	.00	.00	.94
3	.00	.00	.02	.00	.02	.23	.46	.01	.01	1.25	.00	.01
4	.00	.00	.11	.52	.01	.04	.01	.01	.20	.06	.02	.00
5	.01	.00	.18	.10	.00	.45	.25	.01	.54	.01	.00	.00
6	.40	.12	.00	.00	.00	.00	.03	.01	.00	.02	.00	.00
7	.00	.00	.00	.03	.00	.05	.01	.20	.01	.92	.03	.00
8	.00	.00	.00	.00	.00	.00	.01	.84	.02	.41	2.13	.00
9	.00	.03	.00	.00	.48	.01	.17	.01	.50	.01	1.78	.00
10	.00	.38	.00	.02	.01	.00	.02	.01	.00	.02	.00	.00
11	.00	.00	.00	.06	.00	.05	.07	.01	.01	.00	.33	.01
12	.00	.00	.00	.00	.00	.00	.02	.01	.01	.00	.00	.00
13	.00	.00	.00	.12	.00	.00	.03	.02	.01	.00	.02	.00
14	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	.26
15	.00	.00	.02	.00	.00	.03	.00	.00	.04	.00	.01	.32
16	.00	.00	.00	.15	.11	.05	.22	.00	1.27	.00	.02	.01
17	.03	.00	.00	.00	.20	.52	.39	.01	.00	.02	.02	.00
18	.10	.00	.16	.00	.08	.01	.01	.04	.01	.51	.02	.01
19	.11	.00	.00	.00	.03	.30	.02	.41	.00	.77	.02	.00
20	.00	1.36	.00	.00	.06	.32	.01	.78	.01	.01	.01	.26
21	.00	.00	.00	.10	.02	.02	.00	.24	.01	.00	.01	.01
22	.00	.00	.40	.00	.01	.00	.00	.05	.00	.00	.01	.01
23	.55	.00	.38	1.40	.00	.02	.00	.01	.00	.00	.27	.03
24	.00	.44	.00	.02	.00	.00	.02	.01	.00	.01	2.08	.09
25	.00	.00	.00	.00	.00	.14	.00	.00	.01	.01	.03	.01
26	.22	.00	.00	.15	.00	.03	.08	.00	.00	.01	.02	.39
27	.01	.00	.15	.00	.00	.01	.00	.01	.00	.02	.02	.29
28	.05	.00	.00	.00	.00	.00	.01	.62	.05	.03	.01	.01
29	.00	.00	.16	.00	---	.00	.01	.59	.39	.00	.02	.00
30	.00	.00	.00	.00	---	.05	.01	.03	.01	.01	.01	.02
31	.00	---	.00	.45	---	.55	---	.01	---	.00	.03	---
TOTAL	1.48	2.33	2.21	3.37	1.34	2.88	1.90	4.01	3.18	4.11	6.95	2.68
WTR YR 1982 TOTAL	36.44											

Table 44.--Daily-values rainfall data for Claypit Creek near Roseville (03148395)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.02	.00	.00	.00	.00	.00	.29	.05	.01	.01	.00
2	.00	.01	.10	.00	.48	.00	.35	.98	.00	.08	.01	.00
3	.00	.45	.00	.00	.35	.00	.46	.99	.47	.02	.01	.00
4	.00	.39	.00	.00	.02	.00	.10	.24	.83	.45	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	.02	.24
6	.01	.00	.47	.00	.03	.00	.29	.00	.00	.01	.00	.00
7	1.10	.03	.02	.00	.11	.00	.20	.05	.00	.00	.00	.04
8	.01	.01	.00	.00	.00	.02	1.13	.04	.00	.01	.00	.01
9	.23	.01	.00	.00	.00	.04	1.18	.01	.01	.01	.00	.01
10	.03	.01	.00	.00	.00	.01	.17	.00	.01	.01	.00	.01
11	.01	.02	.00	.37	.07	.08	.03	.01	.01	.01	.15	.01
12	.01	.23	.00	.10	.00	.00	.01	.01	.01	.01	.01	.09
13	.01	.00	.00	.00	.00	.00	.23	.01	.01	.00	.00	.13
14	.01	.00	.00	.00	.00	.00	1.22	1.15	.01	.00	.00	.00
15	.01	.00	.00	.05	.00	.00	.01	.85	.01	.00	.00	.00
16	.00	.00	1.20	.00	.00	.00	.00	.01	.45	.00	.00	.73
17	.01	.00	.02	.00	.00	.00	.01	.00	.03	.90	.01	.02
18	.01	.00	.25	.02	.00	.00	.01	.00	.02	.11	.14	.01
19	.01	.00	.00	.00	.00	.03	.01	.78	.94	.01	.01	.01
20	.11	.52	.00	.00	.00	.07	.00	.01	.01	.13	.01	.22
21	.00	.62	.00	.00	.00	.18	.00	.08	.00	.53	.00	.64
22	.01	.12	.00	.02	.00	.03	.01	1.27	.00	.55	.00	.00
23	.03	.36	.37	.35	.00	.01	.10	.00	.01	1.34	.00	.01
24	.02	.06	.10	.00	.00	.00	.20	.00	.02	.02	.00	.01
25	.01	.00	.42	.00	.06	.00	.01	.11	.01	.01	.01	.01
26	.02	.00	.15	.00	.00	.00	.03	.01	.02	.01	.01	.03
27	.01	.30	.30	.00	.00	.03	.00	.01	.01	.02	.15	.01
28	.02	.47	.00	.00	.00	.01	.09	.17	.80	.00	.26	.01
29	.02	.70	.00	.00	---	.28	.13	.26	.01	.00	.01	.01
30	.04	.02	.00	.00	---	.00	1.08	.01	.78	.00	.01	.01
31	.17	---	.00	.05	---	.00	---	.00	---	.00	.05	---
TOTAL	1.94	4.35	3.40	0.96	1.12	0.79	7.06	7.36	4.53	4.26	0.88	2.27
WTR YR 1983 TOTAL	38.92											

Table 45.--Daily-values rainfall data for Second Creek near Marietta (03150602)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.48	.03	.00	.00	.00	.01	.03	.01	.01	.00
2	---	.00	.01	.02	.27	.14	.00	.00	.02	.01	.19	.20
3	---	.00	.00	.43	.22	.07	.47	.00	.01	1.81	.01	.00
4	---	.00	.21	.35	.02	.42	.02	.00	.71	.53	.00	.00
5	---	.58	.02	.00	.01	.00	.18	.00	1.22	.03	.00	.00
6	---	.05	.02	.04	.00	.16	.07	.00	.01	.02	1.56	.00
7	---	.00	.00	.17	.00	.29	.02	.15	.01	.11	.01	.00
8	---	.00	.03	.00	.03	.00	.01	.72	.02	.12	.64	.00
9	---	.27	.01	.05	.49	.00	.13	.00	.00	.01	.37	.00
10	---	.00	.02	.00	.00	.00	.01	.00	.26	.00	.00	.00
11	---	.00	.04	.00	.00	.67	.02	.00	.00	.00	.28	.00
12	---	.01	.00	.00	.00	.00	.02	.01	.00	.00	.00	.00
13	---	.00	.01	.33	.05	.30	.02	.01	.17	.00	.00	.00
14	---	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.22
15	---	.01	.10	.01	.12	.28	.01	.01	.00	.00	.00	.01
16	---	.01	.02	.10	.30	1.05	.31	.00	1.34	.00	.00	.00
17	---	.03	.34	.02	.15	.00	.14	.00	.00	.00	.00	.00
18	---	.00	.16	.00	.05	.02	.01	.01	.01	.00	.00	.05
19	---	.01	.03	.00	.13	.19	.01	.62	.01	.68	.00	.00
20	---	.17	.00	.01	.05	.92	.00	1.85	.01	.25	.63	.00
21	---	.01	.25	.18	.03	.14	.00	.03	.01	.00	.00	.09
22	---	.00	.57	.59	.00	.00	.00	.05	.09	.00	.00	.02
23	.00	.14	.10	.44	.00	.00	.00	.04	.02	.00	.26	.02
24	.00	.26	.00	.02	.00	.00	.01	.01	.01	.01	.70	.03
25	.01	.04	.00	.32	.00	.28	.01	.01	.01	.01	.04	.06
26	.22	.02	.00	.08	.00	.05	.13	.01	.01	.00	.00	.51
27	.10	.00	.05	.00	.00	.02	.00	.17	.01	.00	.00	.15
28	.01	.00	.22	.00	.00	.02	.00	.57	.01	.18	.00	.01
29	.00	.00	.00	.00	---	.03	.00	1.16	1.03	.00	.00	.01
30	.00	.06	.00	.00	---	.05	.00	.20	.00	.00	.20	.00
31	.00	---	.22	.76	---	.32	---	.01	---	.00	.04	---
TOTAL	0.34	1.67	2.91	3.95	1.92	5.42	1.60	5.65	5.04	3.79	5.26	1.38
WTR YR 1982 TOTAL												
												38.93



Table 45.--Daily-values rainfall data for Second Creek near Marietta (03150602)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.25	.00	.13	.00	.00	.35	.09	.02	1.02	.00
2	.00	.01	.00	.00	1.23	.00	.29	1.66	.00	.33	.01	.00
3	.00	.99	.00	.00	.05	.00	.21	.20	1.17	.01	.00	.00
4	.00	.58	.00	.00	.00	.00	.00	.30	.18	.59	.00	.00
5	.00	.00	.30	.00	.00	.00	.00	.01	.01	.03	.01	.02
6	.01	.00	.01	.00	.08	.18	.13	.00	.49	.00	.00	.00
7	.05	.00	.00	.00	.05	.13	.37	.01	.00	.00	.00	.00
8	.00	.01	.00	.00	.00	.59	.64	.11	.01	.00	.00	.00
9	.14	.00	.00	.00	.00	.02	.96	.01	.01	.00	.00	.00
10	.38	.01	.04	.30	.05	.01	.04	.01	.01	.00	.00	.00
11	.03	.01	.06	.06	.70	.05	.04	.01	.01	.00	.27	.24
12	.00	.45	.00	.00	.00	.00	.01	.01	.01	.00	.00	.48
13	.05	.01	.00	.00	.00	.00	.10	.01	.01	.00	.00	.01
14	.01	.00	.00	.03	.00	.00	.80	.36	.00	.00	.00	.01
15	.02	.00	.85	.30	.00	.00	.35	.84	.13	.22	.00	.01
16	.00	.00	.07	.00	.00	.00	.00	.26	.02	.01	.00	.22
17	.01	.02	.00	.02	.00	.00	.00	.00	.01	.71	.07	.00
18	.01	.02	.04	.00	.00	.11	.00	.00	.05	.65	.02	.00
19	.01	.00	.58	.00	.00	.40	.00	.93	.33	.26	.00	.00
20	.13	.44	.03	.00	.00	.10	.00	.19	.00	.04	.00	.00
21	.00	.10	.00	.06	.00	.26	.00	.33	.00	.41	.00	.51
22	.00	.30	.06	.45	.00	.00	.02	.39	.01	.10	.25	.00
23	.00	.13	.56	.08	.00	.00	.24	.01	.01	1.83	.02	.00
24	.00	.07	.02	.03	.00	.00	.38	.01	.00	.09	.00	.01
25	.00	.00	.23	.02	.10	.00	.01	.01	.00	.01	.00	.01
26	.00	.22	.10	.00	.00	.08	.02	.01	.01	.02	.00	.02
27	.00	.00	.35	.00	.00	.37	.00	.01	.05	.01	.00	.01
28	.00	.87	.00	.00	.00	.00	.02	.12	.33	.65	.00	.01
29	.02	.05	.00	.00	---	.00	.39	.83	.00	.00	.00	.01
30	.01	.00	.00	.28	---	.00	.32	.01	.19	.00	.00	.04
31	.05	---	.00	.00	---	.00	---	.01	---	.00	.41	---
TOTAL	0.93	4.33	3.55	1.63	2.39	2.38	5.34	7.01	3.14	5.34	2.73	1.61
WTR YR 1983 TOTAL	40.38											

Table 46.--Daily-values rainfall data for Wolfkiln Run at Haydenville (03158102)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.63	.25	.42	.00	.01	.00	.26	.00	.01	.02
2	---	.00	.00	.88	.00	.00	.01	.00	.01	.00	.00	.78
3	---	.00	.00	.00	.07	.00	.48	.00	.00	.57	.01	.01
4	---	.00	.72	.00	.00	.39	.00	.00	.63	.42	.34	.00
5	---	.17	.00	.00	.00	.01	.21	.00	.48	.00	.00	.00
6	---	.00	.00	.00	.00	.01	.02	.01	.00	.01	.01	.00
7	---	.00	.00	.00	.00	.09	.03	.15	.01	.26	.00	.00
8	---	.00	.00	.00	.00	.02	.01	.71	.01	.25	1.36	.00
9	---	.00	.00	.32	.00	.01	.15	.00	.70	.58	.44	.00
10	---	.56	.00	.10	.42	.05	.01	.00	.02	.01	.02	.00
11	---	.00	.00	.13	.00	.50	.03	.01	.02	.00	.43	.00
12	---	.00	.00	.00	.00	.03	.02	.01	.01	.01	.00	.00
13	---	.00	.00	.22	.10	.45	.00	.01	.08	.01	.00	.00
14	---	.00	.00	.00	.00	.31	.01	.01	.01	.01	.00	.22
15	---	.00	.00	.00	.00	.04	.01	.00	.18	.01	.00	.05
16	---	.00	.00	.00	.00	.68	.22	.01	1.68	.01	.00	.00
17	---	.00	.00	.00	.29	.02	.26	.01	.02	.01	.00	.00
18	---	.00	.33	.00	.10	.04	.01	.04	.02	.51	.01	.07
19	---	.00	.10	.00	.00	.10	.01	.49	.01	.36	.00	.00
20	---	.28	.00	.00	.00	1.12	.04	.83	.01	.07	.06	.00
21	---	.00	.00	.06	.00	.76	.00	.37	.02	.01	.00	.00
22	.28	.00	.53	.00	.00	.00	.00	.02	.01	.00	.00	.05
23	.36	.00	.00	1.42	.00	.01	.01	.00	.02	.01	.01	.00
24	.00	.00	.00	.00	.00	.03	.01	.00	.01	.01	.62	.02
25	.02	.00	.00	.00	.00	.21	.01	.01	.00	.01	.00	.06
26	.09	.00	.00	.29	.00	.09	.00	.01	.82	.01	.00	.35
27	.08	.00	.00	.00	.00	.01	.02	.18	.01	.01	.12	.31
28	.00	.00	.00	.00	.00	.03	.00	1.28	.47	.32	.00	.00
29	.00	.00	.17	.00	---	.02	.00	1.49	.14	.01	.01	.00
30	.00	.00	.00	.00	---	.04	.00	.05	.06	.01	.11	.00
31	.00	---	.00	.00	---	.62	---	.01	---	.00	.04	---
TOTAL	0.83	1.01	2.48	3.67	1.40	5.69	1.59	5.71	5.72	3.50	3.60	1.94
WTR YR 1982 TOTAL	37.14											

Table 46.--Daily-values rainfall data for Wolfkiln Run at Haydensville (03158102)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.29	.00	.00	.00	.06	.16	.02	.00	.01	.00
2	.00	.02	.04	.00	.26	.00	.71	1.44	.00	.00	.00	.00
3	.00	.46	.01	.00	.42	.00	.18	.99	.79	.00	.00	.00
4	.00	.41	.00	.00	.00	.00	.00	.14	.04	.00	.00	.00
5	.00	.00	.39	.00	.00	.00	.00	.00	.01	.62	.00	.02
6	.00	.01	.04	.00	.00	.00	.43	.00	.00	.00	.01	.00
7	.18	.01	.01	.00	.00	.00	.15	.05	.00	.00	.01	.00
8	.00	.01	.00	.00	.00	.00	.85	.19	.00	.00	.01	.00
9	.96	.00	.00	.00	.00	.00	1.46	.01	.00	.00	.00	.00
10	.01	.01	.00	.00	.00	.23	.02	.00	.00	.00	.00	.00
11	.00	.01	.00	.39	.23	.29	.05	.01	.00	.00	.14	.00
12	.00	.33	.00	.00	.27	.00	.01	.01	.00	.00	.01	.45
13	.00	.00	.00	.00	.00	.00	.12	.01	.00	.00	.00	.01
14	.01	.00	.00	.00	.00	.00	.85	.25	.00	.00	.01	.00
15	.04	.00	.31	.00	.00	.00	.02	.62	.01	.00	.01	.00
16	.01	.03	1.32	.00	.00	.00	.01	.10	.10	.00	.01	.46
17	.01	.01	.00	.00	.00	.00	.00	.01	2.02	.00	.00	.00
18	.01	.01	.00	.00	.00	.00	.00	.01	.03	.85	.19	.00
19	.01	.00	.47	.13	.00	.09	.04	.78	.75	.74	.00	.00
20	.09	.48	.21	.00	.00	.10	.00	.02	.00	.00	.00	.01
21	.00	.30	.00	.00	.00	.16	.01	.32	.00	.00	.00	.61
22	.01	.05	.00	.23	.00	.00	.01	.71	.00	.40	.00	.00
23	.01	.42	.00	.00	.00	.00	.18	.00	.00	.48	.01	.00
24	.01	.05	.00	.00	.00	.00	.22	.00	.00	.93	.00	.00
25	.01	.01	.42	.00	.00	.00	.01	.04	.00	.00	.00	.01
26	.01	.14	.26	.00	.00	.00	.02	.00	.00	.00	.00	.00
27	.01	.01	.80	.00	.00	.00	.00	.00	.00	.00	.09	.00
28	.01	.86	.10	.00	.00	.20	.05	.21	.00	.00	.37	.00
29	.01	.03	.00	.00	---	.07	.12	.84	.82	.00	.00	.00
30	.04	.01	.00	.00	---	.00	.38	.01	.00	.00	.00	.00
31	.05	---	.00	.00	---	.00	---	.00	---	.00	.01	---
TOTAL	1.50	3.69	4.67	0.75	1.18	1.14	5.96	6.94	4.59	4.02	0.89	1.57
WTR YR 1983 TOTAL	36.90											

Table 47.--Daily-values rainfall data for Elk Run near Alfred (03159537)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												---
2												---
3												---
4												---
5												---
6												---
7												---
8												---
9												---
10												---
11												---
12												---
13												---
14												---
15												---
16												---
17												---
18												---
19												---
20												---
21												---
22												---
23												---
24												.00
25												.00
26												.00
27												.00
28												.00
29												.00
30												.11
31												---
TOTAL												0.11

WTR YR 1981 TOTAL 0.11

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 47.--Daily-values rainfall data for Elk Run near Alfred (03159537)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.20	.35	.76	.00	.00	.00	.03	.00	.00	.39
2	.01	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.06
3	.00	.00	.01	.05	.18	.11	.45	.00	.00	.99	.20	.00
4	.00	.00	.10	.60	.19	.31	.00	.00	1.29	1.30	.11	.00
5	.00	.22	.00	.00	.00	.01	.26	.00	.93	.02	.00	.00
6	.44	.02	.00	.00	.00	.12	.06	.00	.00	.02	.01	.00
7	.00	.00	.00	.10	.00	.03	.00	.05	.01	.05	.10	.00
8	.00	.00	.00	.03	.00	.13	.06	.29	.02	1.17	.69	.00
9	.00	.08	.27	.00	.37	.05	.12	.00	.66	.03	.44	.00
10	.00	.01	.14	.03	.11	.04	.00	.00	.31	.02	.01	.00
11	.00	.01	.00	.00	.00	.71	.00	.01	.02	.01	.34	.00
12	.00	.00	.00	.00	.00	.02	.00	.00	.02	.02	.01	.01
13	.00	.02	.00	.02	.10	.25	.01	.00	.24	.02	.00	.01
14	.00	.00	.00	.01	.00	.00	.00	.01	.02	.02	.00	1.10
15	.00	.00	.00	.02	.00	.38	.01	.01	.00	.02	.00	.07
16	.05	.00	.00	.00	.15	.77	.29	.00	.76	.00	.00	.02
17	.00	.00	.00	.00	.11	.00	.13	.00	.02	.00	.00	.00
18	.26	.00	.30	.10	.21	.00	.01	.01	.02	.07	.01	.07
19	.01	.00	.00	.00	.20	.35	.01	.06	.01	.08	.01	.00
20	.00	.13	.00	.00	.05	.40	.06	.64	.01	.12	.15	.00
21	.00	.04	.00	.17	.05	.39	.00	.49	.02	.00	.01	.07
22	.21	.20	.28	.02	.05	.00	.00	.25	.01	.00	.00	.02
23	.40	.10	.37	.74	.00	.02	.01	.39	.01	.00	.07	.00
24	.02	.00	.02	.25	.00	.00	.01	.01	.01	.00	.22	.08
25	.01	.00	.00	.00	.00	.24	.01	.00	.01	.00	.01	.20
26	.35	.00	.00	.40	.00	.06	.27	.02	.57	.00	.01	.40
27	.10	.02	.00	.00	.00	.00	.07	.88	.02	.01	.56	.14
28	.01	.02	.06	.00	.00	.02	.00	.10	.12	.02	.00	.01
29	.00	.00	.13	.00	---	.03	.00	1.47	.06	.00	.00	.01
30	.01	.16	.00	.00	---	.06	.00	.42	.43	.00	.05	.00
31	.00	---	.00	.00	---	.39	---	.01	---	.00	.01	---
TOTAL	1.88	1.03	1.88	2.89	2.53	4.89	1.84	5.12	5.64	3.99	2.82	2.86
WTR YR 1982 TOTAL	37.37											

Table 47.--Daily-values rainfall data for Elk Run near Alfred (03159537)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.23	.00	.00	.00	.02	.48	.14	.04	.35	.01
2	.00	.01	.03	.00	.32	.00	.73	.78	.00	.00	.00	.00
3	.00	.92	.02	.00	.60	.00	.36	.84	.56	.00	.01	.00
4	.00	.62	.01	.00	.02	.00	.02	.36	.05	.62	.01	.00
5	.01	.00	.26	.00	.00	.00	.00	.01	.00	.01	.07	.00
6	.00	.01	.02	.00	.08	.00	.27	.00	.28	.00	.01	.00
7	.00	.00	.01	.00	.11	.18	.36	.01	.01	.00	.01	.03
8	.00	.00	.00	.00	.00	.05	.85	.07	.01	.00	.01	.00
9	1.21	.00	.00	.00	.00	.85	.42	.01	.01	.01	.00	.00
10	.24	.02	.00	.00	.00	.03	.03	.01	.01	.00	.00	.00
11	.01	.01	.10	.43	.37	.05	.06	.01	.00	.01	.12	.24
12	.00	.46	.00	.00	.05	.15	.02	.01	.00	.01	.01	.19
13	.05	.00	.00	.00	.00	.00	.07	.01	.00	.00	.01	.01
14	.01	.00	.00	.00	.00	.00	.84	.18	.01	.00	.00	.00
15	.09	.00	.00	.00	.00	.00	.21	1.00	.01	.00	.01	.00
16	.00	.00	1.02	.00	.00	.00	.01	.33	.01	.01	.01	.26
17	.00	.02	.04	.00	.00	.00	.01	.01	.01	.13	.00	.01
18	.01	.02	.00	.09	.00	.10	.00	.01	.18	.71	.10	.00
19	.01	.01	.16	.00	.00	.20	.01	.77	.65	.02	.00	.00
20	.11	.45	.22	.00	.00	.10	.01	.10	.02	.00	.00	.00
21	.00	.10	.00	.00	.00	.32	.01	.21	.00	.00	.00	.42
22	.01	.19	.00	.40	.00	.00	.02	.58	.00	.15	.01	.00
23	.02	.18	.02	.10	.14	.00	.35	.02	.00	.50	.00	.00
24	.01	.01	.40	.12	.00	.00	.35	.01	.01	1.13	.00	.01
25	.01	.00	.23	.00	.08	.00	.01	.00	.00	.94	.00	.00
26	.01	.25	.15	.04	.00	.00	.02	.00	.01	.02	.00	.00
27	.01	.01	.25	.00	.00	.12	.00	.00	.08	.01	.06	.00
28	.01	.88	.04	.00	.00	.35	.09	.16	.17	.01	.01	.01
29	.01	.00	.00	.00	---	.10	.23	.64	.03	.00	.01	.00
30	.01	.01	.00	.15	---	.10	.34	.01	.14	.01	.00	.00
31	.01	---	.00	.10	---	.01	---	.01	---	.01	.00	---
TOTAL	1.86	4.20	3.21	1.43	1.77	2.71	5.72	6.64	2.40	4.35	0.82	1.19
WTR YR 1983 TOTAL												36.30

Table 48.--Daily-values rainfall data for Sandusky Creek near Burlington (03205995)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.26
2												.01
3												.27
4												.00
5												.00
6												.00
7												.00
8												.13
9												.00
10												.01
11												.01
12												.01
13												.01
14												.10
15												.99
16												.01
17												.00
18												.00
19												.06
20												.00
21												.00
22												.00
23												.00
24												.00
25												.00
26												.01
27												.00
28												.00
29												.00
30												.01
31												.00
TOTAL											0.03	1.89

WTR YR 1981 TOTAL 1.92

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 48.--Daily-values rainfall data for Sandusky Creek near Burlington (03205995)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.03	.33	.80	.00	.00	.01	.18	.00	.00	.00
2	.10	.00	.00	.00	.00	.03	.11	.01	.01	.00	.00	.06
3	.00	.00	.00	.14	.11	.07	.55	.00	.01	.18	.01	.00
4	.00	.00	.12	.44	.22	.14	.00	.00	.42	.99	.28	.00
5	.01	.28	.00	.00	.00	.00	.09	.01	.02	.01	.02	.00
6	.45	.00	.00	.00	.00	.23	.03	.00	.00	.00	.00	.01
7	.00	.00	.00	.15	.00	.03	.01	.05	.01	.00	.66	.01
8	.00	.00	.00	.00	.00	.40	.04	.11	.21	.18	.00	.00
9	.00	.00	.00	.00	.98	.00	.05	.00	.70	.00	.45	.00
10	.00	.00	.02	.00	.05	.01	.03	.01	1.22	.00	.01	.00
11	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.04	.00
12	.00	.00	.00	.00	.00	.75	.00	.01	.11	.01	.00	.00
13	.00	.00	.00	.15	.05	.24	.00	.01	.04	.01	.00	.06
14	.00	.00	.10	.20	.00	.00	.00	.01	.02	.01	.00	.42
15	.00	.00	.05	.00	.00	.52	.00	.01	.02	.00	.00	.00
16	.00	.00	.00	.10	.05	.16	.20	.00	.57	.01	.61	.00
17	.00	.00	.09	.00	.48	.65	.07	.00	.02	.01	.00	.00
18	.32	.00	.00	.00	.26	.00	.00	.12	.02	.01	.00	.12
19	.02	.28	.00	.00	.03	.05	.01	.02	.04	1.40	.00	.00
20	.01	.06	.00	.00	.00	.29	.08	.92	.01	.01	.01	.01
21	.00	.00	.00	.32	.10	.18	.00	.34	.02	.01	.00	.13
22	.58	.00	.14	.00	.00	.00	.00	.56	.01	.64	.00	.03
23	.45	.11	1.15	1.20	.00	.00	.00	.02	.01	.00	.06	.01
24	.00	.26	.00	.00	.00	.00	.00	.12	.00	.00	.13	.00
25	.09	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.46
26	.25	.03	.00	.13	.00	.35	.25	.27	.06	.00	.00	.32
27	.07	.03	.12	.00	.00	.00	.00	.49	.00	.01	1.66	.02
28	.00	.00	.00	.00	.13	.00	.00	.03	.03	.56	.00	.00
29	.02	.00	.00	.00	---	.00	.00	1.35	.28	.01	.00	.01
30	.00	.00	.00	.00	---	.00	.00	.50	.00	.16	.65	.00
31	.00	---	.00	.14	---	.84	---	.01	---	.07	.22	---
TOTAL	2.37	1.05	1.87	3.30	3.26	4.94	1.54	5.00	4.05	4.30	4.88	1.69
WTR YR 1982 TOTAL	38.25											



Table 48.--Daily-values rainfall data for Sandusky Creek near Burlington (03205995)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.91	.00	.00	.00	.01	1.32	.06	.24	.56	.01
2	.00	.00	.00	.00	.39	.00	.12	.19	.01	.00	.01	.00
3	.00	1.26	.00	.00	.26	.00	.07	.91	.91	.00	.00	.00
4	.00	.60	.00	.00	.00	.00	.01	.14	.70	1.44	.00	.00
5	.00	.00	.31	.00	.00	.00	.00	.00	.00	.02	.00	.00
6	.01	.00	.00	.00	.11	.00	.01	.01	.00	.00	.01	.00
7	.00	.01	.00	.00	.02	.13	.09	.01	.01	.00	.00	.00
8	.00	.00	.00	.00	.00	.06	.58	.35	.00	.00	.00	.00
9	.39	.00	.00	.00	.00	.08	.14	.00	.01	.00	.41	.00
10	.54	.01	.00	.03	.00	.00	.13	.01	.01	.00	.00	.00
11	.01	.01	.02	.19	.86	.12	.00	.00	.00	.00	1.53	.00
12	.11	.45	.00	.00	.09	.09	.01	.00	.00	.00	.01	.00
13	.25	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.66	.16	.01	.00	.00	.00
15	.16	.00	.02	.05	.00	.00	.20	1.50	.01	.00	.00	.00
16	.01	.02	1.18	.02	.00	.00	.00	.88	.05	.00	.00	.21
17	.00	.01	.02	.00	.00	.00	.00	.01	.16	.00	.00	.00
18	.00	.02	.00	.01	.00	.33	.00	.01	.01	.22	.04	.01
19	.00	.03	.16	.00	.00	.00	.00	.60	.01	.00	.00	.00
20	.16	.36	.30	.00	.00	.00	.00	.02	.00	.01	.00	.00
21	.00	.35	.00	.00	.00	.00	.01	.72	.00	.01	.00	.27
22	.00	.47	.00	.87	.00	.00	.01	.22	.00	.00	.07	.00
23	.01	.03	.14	.02	.00	.00	.83	.09	.00	.11	.04	.04
24	.00	.00	.05	.03	.00	.00	.30	.01	.00	.01	.00	.01
25	.00	.00	.14	.00	.10	.00	.01	.00	.00	.00	.00	.00
26	.00	.31	.24	.00	.03	.38	.02	.00	.00	.00	.08	.00
27	.00	.09	.13	.00	.00	.23	.00	.00	.11	.00	.19	.00
28	.01	.68	.01	.00	.00	.00	.17	.12	.38	.00	.07	.00
29	.01	.00	.00	.00	---	.00	.50	.28	.78	.00	.00	.00
30	.01	.01	.00	.16	---	.16	.01	.01	.01	.00	.00	.00
31	.00	---	.00	.02	---	.06	---	.00	---	.00	.24	---
TOTAL	1.69	4.72	3.63	1.40	1.86	1.64	3.90	7.56	3.25	2.06	3.33	0.55
WTR YR 1983 TOTAL												35.59

Table 49.--Daily-values rainfall data for Tombstone Creek near Marysville (03219849)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												---
2												---
3												---
4												---
5												---
6												---
7												---
8												---
9												---
10												.00
11												.00
12												.00
13												.00
14												.00
15												.56
16												.00
17												.13
18												.38
19												.19
20												.00
21												.00
22												.00
23												.00
24												.00
25												.00
26												.00
27												.00
28												.00
29												.00
30												.03
31												---
TOTAL												1.29

WTR YR 1981 TOTAL 1.29

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 49.--Daily-values rainfall data for Tombstone Creek near Marysville (03219849)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.00	.63	.18	1.03	.00	.02	.00	.06	.01	.00	.00
2	.00	.00	.00	.00	.00	.00	.05	.00	.01	.07	.02	.71
3	.00	.03	.00	.11	.07	.38	.47	.00	.01	.21	.00	.01
4	.00	.00	.10	.38	.42	.25	.00	.01	.01	.04	.22	.01
5	.00	.03	.00	.00	.00	.18	.28	.01	.49	.01	.00	.01
6	.19	.11	.00	.00	.06	.00	.01	.01	.01	.03	.00	.01
7	.01	.01	.00	.11	.00	.02	.06	.37	.01	.01	.00	.01
8	.00	.00	.00	.00	.00	.00	.01	.49	.01	.01	.59	.01
9	.00	.05	.00	.06	.23	.03	.15	.01	.48	.01	.01	.01
10	.00	.00	.00	.01	.00	.00	.02	.00	.01	.01	.02	.11
11	.00	.00	.00	.01	.00	.00	.02	.01	.01	.01	.04	.01
12	.00	.00	.00	.00	.00	.43	.02	.01	.00	.01	.01	.01
13	.00	.00	.00	.15	.03	.20	.01	.01	.01	.01	.00	.10
14	.00	.00	.00	.02	.00	.00	.02	.01	.01	.01	.01	.00
15	.05	.00	.00	.00	.00	.05	.03	.00	1.27	.00	.01	.01
16	.03	.00	.00	.09	.05	.69	.13	.01	.58	.00	.01	.00
17	.00	.00	.10	.00	.49	.60	.01	.00	.01	.00	.02	.00
18	.11	.00	.27	.02	.04	.00	.02	.06	.00	.00	.01	.01
19	.07	.00	.01	.00	.02	.00	.03	.01	.04	.00	.01	.00
20	.00	1.12	.00	.00	.00	.60	.01	.01	.22	.00	.16	.03
21	.01	.05	.00	.15	.00	.36	.02	.22	.01	.01	.01	.00
22	.18	.00	.24	.00	.00	.00	.00	.05	.01	.04	.02	.00
23	.05	.00	1.08	.75	.00	.00	.00	.00	.00	.01	.24	.01
24	.00	.56	.00	.00	.00	.00	.00	.00	.00	.01	1.93	.25
25	.03	.00	.00	.00	.00	.07	.00	.00	.00	.01	.09	.01
26	.60	.00	.00	.14	.00	.01	.03	.04	.00	.01	.01	.21
27	.36	.06	.00	.00	.00	.01	.00	1.30	.24	.00	.02	.38
28	.00	.00	.00	.00	.00	.01	.00	.02	.22	.00	.01	.00
29	.00	.00	.22	.00	---	.01	.00	.32	.02	.01	.01	.01
30	.00	.00	.00	.18	---	.03	.00	.05	.01	.01	.00	.01
31	.00	---	.00	.93	---	.64	---	.00	---	.01	.11	---
TOTAL	1.71	2.02	2.65	3.29	2.44	4.57	1.42	3.03	3.76	0.56	3.59	1.94
WTR YR 1982 TOTAL	30.98											

Table 49.--Daily-values rainfall data for Tombstone Creek near Marysville (03219849)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.00	.00	.00	.00	.00	.43	.00	.22	.00	.00
2	.00	.21	.00	.00	.26	.00	.09	.35	.00	.01	.01	.01
3	.01	.10	.00	.00	.11	.00	.47	.37	.24	.01	.01	.01
4	.01	.01	.00	.00	.02	.00	.00	.11	.01	.46	.10	.00
5	.01	.00	.01	.00	.00	.00	.02	.01	.01	.27	.01	.00
6	.01	.00	.09	.00	.00	.21	.08	.01	.03	.00	.01	.04
7	.84	.01	.00	.00	.10	.00	.25	.34	.00	.00	.01	.06
8	.01	.01	.00	.00	.00	.00	.01	.07	.00	.00	.00	.01
9	.52	.00	.00	.00	.00	.03	.21	.01	.00	.00	.01	.01
10	.03	.01	.00	.07	.00	.00	.32	.01	.00	.00	.01	.01
11	.02	.18	.00	.04	.00	.28	.00	.01	.00	.00	.17	.00
12	.00	.28	.24	.01	.09	.00	.02	.00	.00	.00	.00	.01
13	.01	.00	.00	.00	.00	.00	.09	.00	.00	.01	.01	.01
14	.01	.00	.00	.00	.00	.00	.67	.80	.00	.01	.01	.00
15	.01	.00	.05	.04	.00	.00	.00	.54	.00	.01	.01	.01
16	.01	.01	.82	.02	.00	.00	.01	.00	.00	.00	.00	.43
17	.00	.01	.00	.01	.00	.00	.06	.00	.00	.57	.01	.01
18	.00	.00	.00	.00	.00	.01	.01	.00	.54	.04	.02	.01
19	.00	.00	.34	.00	.00	.23	.01	.18	1.27	.16	.00	.01
20	.05	.42	.16	.00	.00	.00	.01	.00	.01	.00	.00	.04
21	.00	1.24	.00	.00	.00	.39	.01	.00	.01	.00	.06	1.02
22	.00	.09	.00	.30	.00	.01	.02	.67	.01	.24	.01	.00
23	.00	.25	.01	.22	.00	.00	.01	.01	.01	.01	.01	.00
24	.00	.08	.07	.05	.00	.00	.01	.00	.01	.00	.01	.01
25	.00	.02	.00	.00	.09	.00	.02	.24	.01	.01	.00	.01
26	.00	.31	.07	.00	.02	.00	.02	.00	.01	.01	.01	.00
27	.00	.00	.38	.00	.00	.01	.30	.00	.01	.01	.01	.01
28	.00	.82	.67	.00	.00	.29	.12	.00	.39	.00	.47	.01
29	.01	.02	.00	.00	---	.01	.01	.44	.01	.00	.02	.02
30	.01	.01	.00	.14	---	.00	1.64	.00	.55	.01	.00	.01
31	.09	---	.00	.00	---	.00	---	.01	---	.01	.48	---
TOTAL	1.67	4.10	2.91	0.90	0.69	1.47	4.49	4.61	3.13	2.07	1.47	1.77
WTR YR 1983 TOTAL	29.28											

Table 50.--Daily-values rainfall data for March Run near West Point (03223330)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.39
2												.02
3												.58
4												.24
5												.00
6												.01
7												.00
8												.31
9												.00
10												.00
11												.00
12												.00
13												.00
14												.00
15												.63
16												.00
17												.03
18												.02
19												.09
20											.00	.00
21											.00	.00
22											.00	.00
23											.00	.00
24											.00	.00
25											.00	.00
26											.00	.00
27											.35	.02
28											.09	.01
29											.00	.00
30											.45	.06
31											5.22	---
TOTAL											6.11	2.41

WTR YR 1981 TOTAL 8.52

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 50.--Daily-values rainfall data for March Run near West Point (03223330)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.45	.11	.55	.00	.01	.03	.42	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.54
3	.00	.00	.00	.05	.05	.67	.54	.00	.00	1.28	.00	.00
4	.00	.00	.12	.27	.44	.27	.00	.00	.00	.00	2.33	.00
5	.00	.25	.00	.05	.00	.30	.01	.00	.01	.00	.00	.00
6	1.23	.22	.07	.00	.00	.00	.00	.00	.01	.01	.00	.00
7	.02	.04	.17	.21	.00	.00	.07	.46	.00	.00	.00	.02
8	.00	.00	.03	.00	.00	.00	.15	.77	.00	.01	.46	.01
9	.00	.00	.03	.12	.38	.05	.10	.00	.35	.00	.01	.00
10	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00
11	.00	.00	.00	.02	.00	.57	.03	.00	.00	.00	.02	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
13	.00	.00	.00	.12	.00	.22	.01	.00	.00	.00	.01	.00
14	.00	.00	.00	.03	.00	.00	.00	.00	.01	.00	.01	.61
15	.00	.00	.00	.00	.00	.00	.00	.00	.90	.00	.01	.11
16	.00	.00	.00	.18	.03	1.15	.19	.00	1.04	.00	.01	.00
17	.00	.04	.04	.00	.10	.00	.10	.00	.00	.31	.01	.00
18	.05	.00	.27	.00	.00	.00	.00	.00	.01	.48	.01	.03
19	.06	.67	.00	.00	.22	.36	.00	.69	.02	.46	.00	.00
20	.00	.01	.00	.00	.00	.50	.14	.12	.44	.01	.27	.06
21	.00	.00	.00	.09	.00	.00	.00	.07	.01	.00	.01	.00
22	.00	.00	.32	.00	.03	.00	.00	.03	.01	.04	.00	.18
23	.29	.10	1.07	.60	.00	.00	.00	.02	.01	.04	.04	.06
24	.00	.27	.00	.00	.00	.00	.00	.00	.01	.01	.46	.27
25	.00	.07	.00	.00	.00	.05	.00	.00	.01	.01	.17	.04
26	.55	.10	.00	.06	.00	.09	.00	.00	.00	.01	.00	.18
27	.03	.00	.00	.00	.00	.01	.14	.00	.01	.01	.00	.77
28	.10	.00	.14	.00	.00	.02	.00	.14	.28	.05	.00	.01
29	.00	.00	.27	.00	---	.01	.00	.06	.61	.00	.00	.01
30	.00	.00	.00	.35	---	.03	.00	.43	.15	.00	.00	.01
31	.00	---	.00	1.80	---	.69	---	.01	---	.00	.00	---
TOTAL	2.33	1.77	2.98	4.06	1.80	4.99	1.53	3.55	4.31	2.73	3.84	2.91
WTR YR 1982 TOTAL	36.80											

Table 50.--Daily-values rainfall data for March Run near West Point (032233330)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.38	.00	.00	.00	.00	.00	.11	.00	.33	.05	.01
2	.00	.28	.00	.00	.22	.00	.06	.72	.00	.34	.00	.00
3	.00	.33	.00	.00	.23	.00	.67	.21	.17	.05	.00	.01
4	.00	.11	.04	.00	.05	.00	.15	.42	.01	.39	.12	.01
5	.00	.00	.00	.00	.00	.00	.04	.05	.03	.04	.00	.00
6	.00	.00	.25	.00	.00	.12	.00	.00	.06	.00	.00	.14
7	.70	.00	.00	.00	.15	.00	.26	.00	.00	.00	.01	.59
8	.01	.00	.00	.00	.00	.01	.05	.34	.01	.01	.00	.00
9	.04	.00	.00	.00	.00	.09	.24	.31	.00	.00	.00	.00
10	.01	.01	.00	.04	.00	.00	.49	.00	.00	.01	.00	.00
11	.01	.31	.30	.29	.00	.43	.04	.00	.01	.00	.28	.00
12	.00	.58	.00	.00	.06	.00	.03	.00	.01	.00	.00	.07
13	.02	.00	.00	.02	.00	.00	.14	.00	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00
15	.07	.00	.11	.00	.00	.00	.59	.25	.27	.00	.00	.00
16	.00	.00	1.13	.02	.00	.00	.00	.29	.00	.00	.00	.78
17	.00	.00	.00	.05	.00	.00	.00	.00	.00	.97	.01	.00
18	.00	.00	.00	.00	.00	.02	.04	.00	.20	.01	.03	.01
19	.02	.00	.63	.00	.00	.32	.00	.31	.26	.00	.00	.00
20	.12	.22	.20	.00	.00	.00	.00	.00	.03	.00	.00	.14
21	.00	.87	.02	.00	.00	.33	.00	.00	.00	.12	.42	.86
22	.01	.39	.00	.21	.00	.02	.01	.90	.00	2.32	.00	.00
23	.00	.00	.18	.10	.00	.00	.00	.13	.00	.02	.00	.01
24	.00	.58	.17	.07	.00	.00	.00	.01	.00	.00	.00	.01
25	.00	.02	.00	.00	.02	.00	.00	.13	.00	.00	.00	.01
26	.00	.04	.00	.00	.02	.00	.00	.00	.00	.01	.00	.00
27	.00	.52	.33	.00	.00	.01	.13	.00	.01	.01	1.45	.01
28	.00	.16	.65	.00	.00	.35	.17	.00	1.17	.01	.27	.00
29	.03	.00	.00	.00	---	.02	.18	.48	.00	.00	.01	.00
30	.00	.00	.00	.32	---	.00	1.26	.00	.21	.01	.00	.00
31	.94	---	.00	.08	---	.00	---	.06	---	.25	1.28	---
TOTAL	1.99	5.19	4.01	1.20	0.75	1.72	4.84	4.72	2.46	4.90	3.93	2.66

WTR YR 1983 TOTAL 38.37

Table 51.--Daily-values rainfall data for Bull Creek near Adelphi (03235080)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
SUMMATION VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL											
WTR YR 1981	TOTAL	2.20									
NOTE:	NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR										



Table 51.--Daily-values rainfall data for Bull Creek near Adelphi (03235080)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.57	.18	.49	.00	.00	.00	.22	.00	.00	.00
2	.02	.00	.00	.00	.00	.00	.03	.00	.01	.00	.00	.07
3	.00	.00	.00	.05	.17	.30	.52	.00	.00	.21	.00	.00
4	.00	.00	.16	.13	.29	.45	.01	.00	.04	.19	.53	.00
5	.00	.24	.00	.30	.00	.00	.23	.00	1.17	.01	.00	.00
6	.25	.02	.01	.00	.00	.00	.01	.00	.01	.00	.00	.00
7	.00	.00	.00	.07	.00	.02	.01	.19	.00	.35	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.43	.00	.31	.86	.00
9	.00	.57	.24	.03	.52	.00	.12	.00	1.77	1.23	.18	.00
10	.00	.01	.12	.02	.00	.03	.01	.00	.02	.31	.00	.00
11	.00	.00	.00	.00	.00	.55	.03	.00	.01	.01	.48	.00
12	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.01	.00
13	.00	.00	.00	.23	.00	.27	.04	.00	.03	.01	.00	.00
14	.00	.00	.00	.02	.00	.01	.00	.00	.01	.01	.00	.83
15	.00	.00	.00	.04	.00	.39	.00	.00	.17	.01	.01	.01
16	.05	.00	.00	.00	.18	.41	.04	.00	1.34	.01	.00	.01
17	.00	.00	.18	.00	.31	.00	.25	.01	.01	.00	.00	.00
18	.20	.00	.10	.01	.12	.01	.00	.05	.00	.12	.00	.08
19	.00	.49	.04	.02	.16	.38	.00	.62	.00	.33	.00	.00
20	.00	.03	.00	.00	.00	1.38	.03	.65	.01	.00	.10	.00
21	.00	.01	.00	.13	.00	.12	.00	.61	.01	.00	.01	.00
22	.00	.09	.37	.00	.00	.00	.00	.02	.01	.03	.00	.00
23	.45	.02	.23	1.57	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.26	.00	.02	.00	.02	.00	.00	.00	.00	1.16	.05
25	.01	.00	.00	.00	.00	.26	.00	.00	.00	.00	.01	.35
26	.07	.01	.00	.08	.00	.02	.00	.00	.15	.00	.00	.33
27	.17	.00	.11	.00	.00	.01	.00	.35	.01	.04	.08	.46
28	.00	.00	.00	.00	.00	.00	.00	.58	.14	.13	.00	.00
29	.00	.00	.00	.00	---	.02	.00	1.54	.07	.00	.00	.01
30	.00	.00	.00	.00	---	.01	.00	.06	.72	.00	.02	.00
31	.00	---	.00	.65	---	.59	---	.00	---	.00	.08	---
TOTAL	1.23	1.75	2.13	3.55	2.24	5.27	1.33	5.11	5.93	3.31	3.53	2.23
WTR YR 1982 TOTAL	37.61											

Table 51.--Daily-values rainfall data for Bull Creek near Adelphi (03235080)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.17	.00	.00	.00	.03	.28	.00	.00	.00	.00
2	.00	.09	.02	.00	.45	.00	.66	1.63	.00	.00	.00	.00
3	.00	.43	.01	.00	.09	.00	.12	1.40	.00	.00	.00	.00
4	.00	.25	.00	.00	.06	.00	.01	.06	1.17	.74	.00	.00
5	.00	.00	.36	.00	.00	.00	.00	.01	.01	.52	.00	.00
6	.00	.00	.02	.00	.00	.10	.45	.01	.01	.02	.11	.01
7	.09	.01	.00	.00	.00	.05	.16	.05	.00	.00	.01	.00
8	.03	.00	.00	.00	.00	.00	.98	.12	.00	.00	.00	.00
9	.06	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00
10	.01	.00	.00	.00	.00	.00	.06	.00	.00	.03	.00	.00
11	.00	.00	.25	.40	.12	.26	.07	.00	.00	.01	.23	.00
12	.00	.22	.00	.00	.25	.00	.02	.00	.00	.00	.00	.03
13	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00
14	.02	.00	.00	.00	.00	.00	.85	.26	.00	.00	.00	.01
15	.03	.00	.15	.06	.00	.00	.00	.44	.00	.59	.00	.00
16	.00	.00	1.18	.00	.00	.00	.02	.04	.00	.02	.00	.35
17	.00	.01	.00	.02	.00	.00	.00	.00	.01	6.35	.00	.00
18	.00	.00	.00	.00	.00	.00	.01	.00	.03	.35	.11	.00
19	.00	.00	.12	.00	.00	.31	.01	.54	.07	.03	.00	.00
20	.06	.40	.60	.00	.00	.00	.00	.02	.00	.02	.00	.19
21	.00	.40	.00	.00	.00	.00	.01	.15	.00	.02	.00	.59
22	.00	.02	.00	.20	.00	.00	.00	1.60	.00	.01	.00	.00
23	.01	.12	.75	.20	.00	.00	.09	.00	.00	.40	.06	.01
24	.01	.04	.65	.00	.00	.00	.05	.00	.00	.78	.00	.00
25	.00	.00	.11	.00	.00	.20	.02	.05	.00	.84	.00	.00
26	.01	.16	.70	.00	.03	.00	.00	.00	.00	.01	.00	.00
27	.00	.00	.22	.00	.02	.00	.00	.00	.00	.01	.24	.00
28	.00	.73	.13	.00	.00	.18	.05	.13	.00	.00	.06	.00
29	.00	.13	.00	.00	---	.00	.02	.18	.01	.00	.00	.00
30	.00	.00	.00	.18	---	.00	.68	.00	1.13	.00	.00	.00
31	.02	---	.00	.00	---	.00	---	.01	---	.00	.04	---
TOTAL	0.35	3.01	5.44	1.06	1.02	1.10	4.85	6.98	3.31	10.75	0.86	1.19
WTR YR 1983 TOTAL	39.92											

Table 52.--Daily-values rainfall data for Stone Branch near Peebles (03237120)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.27
2												.29
3												1.50
4												.00
5												.00
6												.00
7												.00
8												.12
9												.00
10												.00
11												.00
12												.00
13												.00
14												.39
15												.02
16												.05
17												.08
18												.02
19												.01
20												.00
21												.00
22												.00
23												.00
24												.00
25												.00
26											.00	.00
27											.12	.00
28											.00	.00
29											.00	.00
30											.06	.24
31											.28	
TOTAL											0.46	2.99

WTR YR 1981 TOTAL 3.45

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 52.--Daily-values rainfall data for Stone Branch near Peebles (03237120)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.68	.18	.58	.00	.00	.01	.21	.00	.00	.00
2	.00	.00	.00	.00	.00	.08	.38	.00	.01	.00	.00	.00
3	.00	.00	.00	.35	.07	.03	.70	.00	.00	.00	.00	.00
4	.00	.00	.08	.78	.17	.43	.00	.00	.31	.08	.00	.00
5	.00	.05	.02	.00	.00	.00	.19	.00	.65	.29	.01	.00
6	.28	.00	.00	.00	.04	.02	.01	.00	.00	.01	.35	.00
7	.00	.00	.00	.12	.00	.05	.02	.12	.00	.00	.01	.00
8	.00	.02	.00	.00	.00	.01	.09	.15	.00	.00	.10	.00
9	.00	.07	.00	.10	.64	.01	.08	.00	.50	.00	.31	.00
10	.00	.00	.02	.02	.02	.07	.00	.00	.20	.00	.14	.00
11	.00	.00	.00	.02	.00	.63	.00	.00	.11	.05	.01	.00
12	.00	.01	.00	.00	.00	.00	.01	.00	.01	.03	.30	.00
13	.00	.00	.00	.20	.01	.30	.00	.00	.00	.00	.01	.00
14	.00	.00	.02	.00	.00	.10	.00	.00	.02	.00	.00	.00
15	.00	.00	.00	.03	.00	.61	.01	.00	.10	.00	.00	.14
16	.00	.00	.00	.12	.09	.33	.20	.00	1.73	.00	.00	.01
17	.05	.00	.43	.00	.37	.02	.44	.00	.03	.00	.00	.00
18	.09	.00	.08	.00	.00	.11	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.01	.09	.42	.00	.01	.02	.13	.00	.29
20	.03	.30	.00	.00	.00	.08	.00	.01	.00	.01	.00	.00
21	.00	.01	.00	.23	.03	.02	.00	2.27	.01	.00	.00	.00
22	.27	.00	.42	.00	.00	.00	.00	.47	.01	.00	.00	.00
23	.27	.00	.41	2.15	.00	.00	.01	.25	.00	.40	.00	.00
24	.00	.28	.01	.00	.00	.02	.01	.00	.00	.00	.00	.22
25	.00	.00	.00	.02	.00	.19	.00	.00	.00	.00	.00	.00
26	.24	.00	.00	.19	.00	.01	.03	.00	.00	.00	.29	.05
27	.13	.04	.12	.00	.00	.00	.00	.01	.16	.00	.00	.11
28	.01	.00	.00	.00	.00	.01	.00	.88	.00	.73	.00	.02
29	.00	.00	.13	.00	.00	.02	.00	.06	.25	.08	.26	.09
30	.01	.00	.00	.03	---	.00	.00	1.80	.07	.00	.34	.00
31	.00	---	.00	.39	---	.45	---	.62	.00	.00	.00	.00
TOTAL	1.38	0.78	2.42	4.94	2.11	4.03	2.18	6.66	4.42	1.81	3.07	1.22
WTR YR 1982 TOTAL	35.02											

Table 52.--Daily-values rainfall data for Stone Branch near Peebles (03237120)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.44	.00	.00	.00	.02	.92	.00	.00	.00	.01
2	.00	.22	.03	.00	.36	.00	.55	.97	.00	.00	.00	.00
3	.00	.35	.01	.00	.12	.00	.12	1.12	.48	.11	.00	.00
4	.00	.24	.00	.00	.05	.00	.01	.13	.09	1.06	.00	.00
5	.00	.00	.25	.00	.05	.00	.01	.01	.00	.01	.00	.00
6	.00	.00	.02	.00	.04	.17	.11	.01	.00	.00	.00	.01
7	.02	.02	.00	.00	.00	.03	.32	.17	.00	.00	.00	.00
8	.42	.00	.00	.00	.00	.03	1.34	.22	.00	.00	.00	.00
9	.01	.00	.00	.00	.00	.00	.14	.01	.00	.00	.00	.00
10	.62	.01	.00	.05	.00	.00	.15	.01	.00	.00	.00	.00
11	.00	.00	.09	.34	.54	.17	.01	.01	.00	.00	1.20	.23
12	.04	.31	.00	.00	.10	.04	.01	.00	.00	.00	.00	.02
13	.00	.00	.00	.00	.00	.00	.15	.01	.00	.00	.01	.00
14	.00	.00	.00	.00	.00	.00	.47	.57	.00	.00	.00	.00
15	.06	.00	.21	.07	.00	.00	.00	1.83	.00	.00	.00	.00
16	.01	.00	1.45	.01	.00	.00	.00	.08	.33	.00	.00	.28
17	.00	.00	.00	.01	.00	.18	.01	.00	.04	.07	.00	.01
18	.00	.01	.00	.00	.00	.02	.00	.00	.71	1.36	.17	.00
19	.01	.01	.22	.00	.00	.00	.00	.55	.34	.19	.01	.00
20	.08	1.04	.27	.00	.00	.00	.00	.00	.00	.00	.00	.12
21	.00	.30	.00	.00	.00	.30	.00	.46	.00	.00	.00	.52
22	.00	.08	.00	1.22	.00	.07	.01	.92	.00	.00	.00	.01
23	.00	.60	.25	.19	.00	.00	.32	.00	.00	.53	.13	.00
24	.02	.00	.19	.05	.00	.00	.26	.02	.00	.05	.00	.00
25	.00	.01	.26	.00	.12	.00	.01	.04	.00	.00	.00	.00
26	.00	.22	.55	.00	.02	.00	.00	.00	.00	.00	.00	.00
27	.01	.01	.21	.00	.00	.13	.00	.00	.05	.00	.00	.00
28	.00	.83	.08	.00	.00	.11	.30	.37	.16	.00	.01	.00
29	.00	.00	.00	.00	---	.02	.03	.19	.46	.00	.00	.00
30	.01	.00	.00	.17	---	.00	.43	.00	.00	.00	.00	.00
31	.06	---	.00	.00	---	.01	---	.00	---	.00	.09	---
TOTAL	1.37	4.26	4.53	2.11	1.40	1.28	4.78	8.62	2.66	3.38	1.62	1.21
WTR YR 1983 TOTAL	37.22											

Table 53.--Daily-values rainfall data for Duncan Hollow Creek near McDermott (03237198)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
SUMMATION VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL											
WTR YR 1981	TOTAL										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 53.--Daily-values rainfall data for Duncan Hollow Creek near McDermott (03237198)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.00	.30	.31	.24	.00	.01	.02	.23	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.23	.01	.01	.00	.00	.29
3	.00	.00	.00	.37	.06	.03	.51	.00	.01	.56	.00	.02
4	.00	.00	.04	1.20	.11	.46	.00	.00	.15	.01	.59	.00
5	.00	.06	.09	.00	.00	.02	.25	.00	1.21	.00	.03	.00
6	.50	.00	.00	.00	.02	.03	.02	.00	.02	.00	.19	.00
7	.05	.00	.00	.15	.00	.13	.02	.05	.01	.02	1.16	.00
8	.00	.00	.00	.00	.00	.01	.10	.17	.37	.38	.00	.00
9	.00	.00	.00	.10	.60	.00	.11	.00	.79	.01	.00	.00
10	.00	.00	.00	.00	.06	.04	.00	.00	.18	.00	.00	.00
11	.00	.00	.00	.00	.00	.70	.00	.00	.02	.01	.27	.00
12	.00	.00	.00	.00	.00	.03	.01	.00	.00	.01	.01	.00
13	.00	.00	.00	.28	.30	.27	.00	.00	.21	.00	.00	.00
14	.00	.00	.10	.00	.00	.06	.00	.00	.02	.00	.00	.01
15	.00	.00	.00	.00	.00	.64	.00	.00	.09	.00	.00	.00
16	.00	.00	.00	.10	.10	.30	.10	.04	2.08	.00	.10	.00
17	.00	.00	.43	.00	.40	.02	.51	.00	.03	.00	.00	.00
18	.43	.00	.03	.00	.08	.14	.01	.01	.02	.00	.00	.26
19	.02	.00	.00	.00	.03	.32	.00	.01	.00	.02	.00	.00
20	.00	.06	.00	.00	.00	.05	.02	.49	.02	.00	.00	.00
21	.00	.05	.00	.23	.01	.01	.00	1.13	.01	.00	.01	.00
22	.00	.00	.50	.00	.00	.00	.00	.06	.00	.21	.00	.07
23	.62	.00	.39	1.70	.00	.02	.00	.00	.00	.00	.06	.00
24	.00	.35	.00	.00	.00	.03	.00	.00	.00	.00	.08	.04
25	.00	.00	.00	.10	.00	.19	.00	.00	.00	.00	.00	.12
26	.31	.00	.00	.16	.00	.01	.10	.01	.02	.00	.00	.08
27	.06	.13	.01	.00	.00	.00	.00	1.96	.08	.00	1.34	.04
28	.03	.00	.00	.00	.00	.01	.00	.04	.20	.05	.01	.01
29	.00	.00	.11	.00	---	.02	.00	2.35	.16	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.91	.03	.00	.22	.00
31	.00	---	.00	.37	---	.76	---	.01	---	.00	.01	---
TOTAL	2.06	0.65	2.00	5.07	2.01	4.30	2.00	7.27	5.76	1.26	4.46	0.94
WTR YR 1982 TOTAL	37.78											

Table 53.--Daily-values rainfall data for Duncan Hollow Creek near McDermott (03237198)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.35	.00	.00	.00	.01	.96	.04	.01	.00	.01
2	.00	.19	.02	.00	.56	.00	.38	1.16	.01	.00	.00	.00
3	.00	.75	.00	.00	.06	.00	.12	.91	1.05	.97	.00	.00
4	.00	.34	.00	.00	.00	.00	.01	.14	.92	.68	.00	.00
5	.00	.00	.41	.00	.00	.00	.01	.02	.01	.02	.00	.00
6	.00	.01	.02	.00	.10	.22	.09	.00	.03	.00	.00	.00
7	.01	.01	.02	.00	.02	.00	.73	.17	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.05	1.74	.24	.01	.01	.00	.00
9	.22	.00	.00	.00	.00	.00	.10	.01	.01	.01	.00	.00
10	1.00	.01	.00	.03	.00	.00	.11	.00	.01	.00	.00	.00
11	.00	.00	.02	.35	.66	.00	.00	.01	.01	.01	1.46	.00
12	.02	.43	.00	.00	.06	.00	.01	.01	.01	.00	.01	.02
13	.03	.00	.00	.00	.00	.00	.11	.00	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.93	.01	.00	.00	.00	.00
15	.07	.00	.33	.00	.00	.00	.02	1.16	.00	.00	.00	.00
16	.01	.02	1.20	.00	.00	.00	.00	.30	.03	.00	.00	.29
17	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
18	.00	.01	.00	.00	.00	.14	.00	.00	.57	.68	.04	.00
19	.00	.01	.35	.00	.00	.18	.04	.74	.01	.00	.00	.00
20	.11	.67	.15	.00	.00	.00	.00	.01	.00	.00	.00	.00
21	.00	.13	.01	.00	.00	.00	.00	.48	.01	.00	.00	.44
22	.00	.31	.00	.85	.00	.07	.00	.32	.00	.00	.00	.00
23	.01	.57	.18	.04	.12	.00	.63	.00	.00	.31	.38	.01
24	.00	.01	.12	.07	.00	.00	.28	.00	.00	.12	.00	.00
25	.00	.01	.14	.00	.00	.00	.01	.03	.00	.00	.00	.00
26	.01	.27	.30	.00	.00	.00	.00	.01	.00	.01	.00	.00
27	.01	.01	.16	.00	.00	.10	.00	.00	.12	.00	.00	.00
28	.01	.80	.02	.00	.00	.14	.08	.29	.11	.00	.00	.00
29	.01	.00	.00	.00	---	.00	.10	.25	.87	.00	.00	.00
30	.08	.00	.00	.30	---	.01	.03	.00	.40	.00	.00	.00
31	.01	---	.00	.00	---	.02	---	.00	---	.00	.10	---
TOTAL	1.61	4.56	3.80	1.64	1.58	0.93	5.54	7.23	4.26	2.83	1.99	0.77
WTR YR 1983 TOTAL	36.74											



Table 54.--Daily-values rainfall data for Elk Fork at Winchester (03237315)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
SUMMATION VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL											
WTR YR 1981	TOTAL										

Table 54.--Daily-values rainfall data for Elk Fork at Winchester (03237315)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.29	.18	.58	.00	.00	.06	.15	.00	.01	.01
2	.00	.00	.00	.00	.00	.15	.44	.00	.01	.00	.00	.27
3	.00	.01	.01	.35	.07	.01	.41	.00	.00	.15	.01	.01
4	.00	.02	.08	.78	.17	.62	.00	.00	.26	.64	.63	.01
5	.00	.04	.00	.00	.00	.00	.32	.00	.10	.01	.03	.01
6	.40	.01	.00	.00	.04	.07	.03	.00	.01	.02	.01	.01
7	.00	.01	.01	.12	.00	.06	.00	.13	.00	.01	.01	.01
8	.00	.01	.00	.00	.00	.02	.03	.17	1.28	.07	.18	.01
9	.00	.16	.00	.10	.64	.01	.26	.00	.45	.01	.01	.01
10	.00	.00	.02	.02	.02	.07	.00	.01	.06	.01	.01	.01
11	.00	.01	.00	.02	.00	1.06	.00	.01	.02	.03	.39	.01
12	.00	.01	.00	.00	.00	.04	.01	.01	.01	.00	.01	.01
13	.00	.02	.00	.20	.01	.45	.00	.01	.03	.00	.01	.01
14	.00	.02	.02	.00	.00	.22	.01	.01	.00	.00	.01	.04
15	.00	.02	.00	.03	.00	.65	.01	.00	.77	.01	.01	.00
16	.00	.02	.00	.12	.09	.74	.01	.00	1.06	.01	.01	.00
17	.00	.00	.43	.00	.37	.01	.40	.00	.04	.03	.00	.00
18	.25	.01	.08	.00	.00	.27	.01	.40	.02	.35	.00	.37
19	.00	.42	.00	.01	.09	.41	.00	.01	.01	.02	.01	.01
20	.00	.03	.00	.00	.00	.06	.02	.53	.01	.00	.07	.00
21	.00	.00	.00	.23	.03	.01	.01	.45	.03	.01	.01	.00
22	.00	.01	.42	.00	.00	.00	.01	.01	.01	1.19	.00	.21
23	.94	.26	.41	2.15	.00	.01	.02	.01	.00	.01	.02	.00
24	.00	.05	.01	.00	.00	.02	.01	.01	.00	.00	.38	.04
25	.00	.02	.00	.02	.00	.20	.00	.01	.00	.01	.02	.09
26	.03	.08	.00	.19	.00	.03	.03	.02	.00	.00	.00	.04
27	.54	.00	.12	.00	.00	.01	.00	1.59	.00	.08	1.31	.04
28	.14	.00	.00	.00	.00	.02	.00	.18	.30	.11	.00	.01
29	.01	.01	.13	.00	---	.02	.00	1.80	.31	.01	.00	.00
30	.01	.44	.00	.03	---	.01	.00	.61	.00	.00	.64	.00
31	.01	---	.00	.39	---	.40	---	.05	---	.01	.16	---
TOTAL	2.33	1.71	2.03	4.94	2.11	5.65	2.04	6.09	4.94	2.80	3.96	1.24

WTR YR 1982 TOTAL 39.84

Table 54.--Daily-values rainfall data for Elk Fork at Winchester (03237315)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.38	.00	.00	.00	.05	1.08	.00	.00	.00	.00
2	.00	.19	.05	.00	.36	.00	.35	.61	.00	.00	.01	.00
3	.00	.30	.02	.00	.12	.00	.16	1.12	.66	.09	.01	.00
4	.00	.14	.01	.00	.05	.00	.00	.14	.02	.81	.01	.00
5	.00	.00	.17	.00	.05	.00	.01	.01	.00	.02	.01	.01
6	.01	.00	.01	.00	.04	.17	.11	.01	.00	.00	.00	.00
7	.20	.02	.00	.00	.00	.03	.27	.37	.01	.00	.00	.02
8	.00	.01	.00	.00	.00	.03	1.14	.13	.01	.00	.00	.01
9	.69	.01	.00	.00	.00	.00	.24	.01	.01	.00	.00	.01
10	.00	.01	.00	.05	.00	.00	.06	.01	.01	.00	.00	.01
11	.00	.01	.09	.34	.54	.17	.00	.01	.01	.00	1.76	.06
12	.01	.37	.00	.00	.10	.04	.01	.02	.01	.00	.00	.02
13	.01	.00	.00	.00	.00	.00	.21	.00	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.54	.73	.01	.01	.01	.00
15	.04	.01	.21	.07	.00	.00	.00	1.20	.01	.01	.01	.00
16	.01	.00	1.45	.01	.00	.00	.00	.05	.00	.01	.01	.25
17	.01	.01	.00	.01	.00	.18	.02	.00	.37	.20	.00	.00
18	.01	.00	.00	.00	.00	.02	.00	.00	.41	1.12	.10	.00
19	.01	.05	.22	.00	.00	.00	.00	.72	.34	.11	.00	.00
20	.10	1.10	.27	.00	.00	.00	.00	.00	.01	.01	.00	.16
21	.00	.39	.00	.00	.00	.30	.00	.60	.00	.00	.43	.34
22	.01	.03	.00	1.22	.00	.07	.00	1.12	.00	.00	.11	.00
23	.02	.21	.25	.19	.00	.00	.35	.00	.00	.18	.06	.00
24	.02	.02	.19	.05	.00	.00	.09	.00	.00	.03	.00	.00
25	.01	.00	.26	.00	.12	.00	.00	.07	.00	.00	.01	.00
26	.01	.26	.55	.00	.02	.00	.00	.01	.00	.00	.01	.00
27	.01	.00	.21	.00	.00	.13	.00	.01	.02	.00	.05	.00
28	.01	.88	.08	.00	.00	.11	.55	.29	.03	.00	.05	.00
29	.01	.02	.00	.00	---	.02	.07	.34	.56	.00	.00	.00
30	.01	.00	.00	.17	---	.00	.64	.00	.08	.00	.00	.00
31	.11	---	.00	.00	---	.01	---	.00	---	.00	.09	---
TOTAL	1.32	4.04	4.42	2.11	1.40	1.28	4.87	8.66	2.59	2.61	2.74	0.89

WTR YR 1983 TOTAL 36.93

Table 55.--Daily-values rainfall data for Sugar Run near New Market (03238285)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.79
2												.12
3												.63
4												.63
5												.00
6												.00
7												.00
8												.00
9												.00
10												.00
11												.00
12												.00
13												.00
14												.00
15												.63
16												.00
17												.00
18												.00
19												.00
20												.00
21												.00
22												.00
23												.00
24												.00
25											.00	.00
26											.00	.00
27											.00	.00
28											.29	.00
29											.00	.00
30											.70	.00
31											.12	---
TOTAL											1.11	2.80

WTR YR 1981 TOTAL 3.91

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 55.--Daily-values rainfall data for Sugar Run near New Market (03238285)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.00	.37	.20	.75	.00	.00	.03	.19	.00	.01	.01
2	.00	.00	.00	.00	.00	.20	.47	.00	.01	.00	.02	.75
3	.00	.00	.01	.00	.09	.00	.55	.00	.01	.62	.00	.01
4	.00	.00	.05	.55	.07	.65	.00	.01	.06	.47	.87	.01
5	.00	.06	.00	.00	.00	.00	.29	.00	.12	.01	.02	.01
6	.48	.00	.05	.00	.15	.04	.13	.00	.01	.01	.00	.01
7	.00	.00	.00	.10	.05	.03	.00	.16	.01	.01	.12	.01
8	.00	.00	.00	.00	.00	.01	.01	.29	.30	.06	.19	.00
9	.00	.62	.00	.08	.55	.01	.18	.00	.29	.00	.00	.02
10	.00	.00	.00	.03	.00	.02	.00	.01	.01	.37	.10	.02
11	.00	.00	.00	.00	.00	1.21	.01	.00	.01	.04	.29	.02
12	.00	.00	.00	.00	.10	.04	.00	.01	.00	.01	.01	.01
13	.00	.00	.00	.05	.00	.34	.00	.00	.01	.01	.01	.01
14	.00	.00	.02	.00	.00	.17	.00	.00	.01	.02	.01	.06
15	.00	.00	.00	.00	.00	.51	.00	.00	.92	.01	.01	.00
16	.00	.00	.00	.90	.08	.56	.01	.00	1.45	.01	.01	.00
17	.00	.00	.35	.00	.40	.02	.36	.00	.02	.20	.00	.00
18	.19	.00	.20	.00	.03	.18	.00	.14	.02	.02	.00	.32
19	.00	.72	.00	.00	.11	.39	.00	.00	.01	.01	.01	.00
20	.00	.06	.00	.00	.00	.54	.01	.54	.01	.00	.06	.00
21	.00	.00	.00	.18	.00	.00	.00	.64	.02	.00	.01	.00
22	.00	.02	.33	.00	.00	.00	.00	.01	.00	.29	.00	.05
23	.54	.26	.25	2.19	.00	.00	.01	.00	.01	.01	.11	.01
24	.00	.04	.00	.00	.00	.00	.00	.00	.01	.00	.21	.06
25	.00	.02	.00	.00	.00	.22	.00	.00	.01	.01	.00	.43
26	.22	.10	.00	.17	.00	.01	.00	.01	.01	.01	.01	.03
27	.72	.00	.00	.00	.00	.01	.00	1.33	.01	.32	.38	.08
28	.02	.00	.00	.00	.00	.02	.00	.04	.70	.04	.00	.01
29	.00	.00	.08	.00	.00	.00	.00	1.51	.02	.00	.00	.00
30	.00	.26	.00	.00	.00	.03	.00	.02	.00	.00	.36	.00
31	.00	.00	.00	.98	.00	.90	.00	.05	.00	.00	.43	.00
TOTAL	2.26	2.16	1.71	5.43	2.38	6.11	2.03	4.80	4.26	2.56	3.25	1.94
WTR YR 1982 TOTAL	38.89											

Table 55.--Daily-values rainfall data for Sugar Run near New Market (03238285)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.22	.00	.00	.00	.05	.66	.00	.01	.00	.01
2	.00	.48	.02	.00	.33	.00	.36	.73	.02	.00	.00	.00
3	.00	.27	.00	.00	.21	.00	.14	1.62	1.21	.02	.00	.00
4	.00	.08	.00	.00	.05	.00	.01	.12	.02	.38	.00	.00
5	.00	.00	.24	.00	.00	.00	.00	.01	.01	.01	.63	.00
6	.01	.00	.08	.00	.02	.19	.20	.00	.00	.00	.02	.00
7	.36	.00	.00	.00	.01	.00	.16	.68	.00	.00	.01	.01
8	.00	.00	.00	.00	.00	.00	.62	.21	.00	.00	.00	.01
9	.18	.00	.00	.00	.00	.00	.32	.00	.01	.00	.00	.00
10	.00	.01	.00	.05	.00	.00	.02	.00	.00	.00	.00	.00
11	.00	.00	.12	.12	.46	.27	.01	.01	.01	.01	.85	.48
12	.02	.33	.00	.00	.11	.00	.01	.01	.01	.01	.00	.01
13	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00
14	.00	.00	.00	.05	.00	.00	.47	1.16	.01	.00	.01	.00
15	.04	.00	.36	.00	.00	.00	.00	.66	.01	.01	.00	.00
16	.00	.02	.92	.05	.00	.00	.01	.02	.20	.00	.00	.57
17	.00	.01	.00	.33	.00	.00	.00	.00	1.68	.08	.00	.01
18	.01	.00	.00	.00	.00	.14	.00	.00	.03	1.14	.04	.00
19	.01	.03	.35	.00	.00	.09	.00	.82	.45	.16	.00	.00
20	.17	.82	.08	.00	.00	.00	.00	.00	.01	.00	.00	.39
21	.00	.51	.00	.00	.00	.60	.01	.33	.00	.00	.00	.85
22	.00	.04	.00	1.54	.00	.00	.01	1.49	.00	.00	.01	.02
23	.01	.29	.05	.15	.00	.00	.29	.00	.00	.75	.01	.01
24	.01	.02	.36	.00	.02	.00	.09	.00	.00	.10	.00	.01
25	.01	.00	.16	.00	.26	.00	.00	.02	.00	.00	.00	.00
26	.01	.31	.60	.00	.02	.00	.00	.00	.00	.00	.00	.00
27	.01	.00	.20	.00	.00	.05	.00	.00	.13	.00	.04	.00
28	.01	.89	.00	.00	.00	.10	.25	.31	.64	.00	.03	.00
29	.01	.00	.02	.00	---	.03	.01	.37	.22	.00	.01	.00
30	.02	.00	.00	.22	---	.01	2.48	.00	.08	.00	.00	.00
31	.09	---	.00	.00	---	.00	---	.00	---	.00	.41	---
TOTAL	0.98	4.11	3.78	2.51	1.49	1.48	5.76	9.23	4.75	2.68	2.05	2.38
WTR YR 1983 TOTAL	41.21											

Table 56.--Daily-values rainfall data for Twist Run at Xenia (03241994)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												.00
24												.00
25												.00
26												.00
27												.00
28												.00
29												.00
30												.00
31												
TOTAL												0.00

WTR YR 1981 TOTAL 0.00

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 56.--Daily-values rainfall data for Twist Run at Xenia (03241994)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.64	.21	.00	.00	.00	.00	.44	.00	.00	.00
2	.00	.00	.00	.15	.00	.00	.13	.00	.01	.00	.03	.00
3	.00	.00	.00	.00	.50	.08	.66	.00	.00	.07	.00	.00
4	.00	.00	.10	.58	.00	.50	.00	.00	.05	.00	1.50	.00
5	.00	.04	.00	.00	.00	.00	.34	.00	.07	.00	.01	.00
6	.43	.02	.00	.00	.04	.00	.07	.00	.01	.01	.01	.00
7	.00	.00	.00	.00	.00	.00	.06	.24	.01	.01	.16	.00
8	.00	.00	.00	.00	.00	.00	.00	.18	.22	1.09	.01	.00
9	.00	.29	.00	.00	.18	.00	.23	.00	.12	.01	.03	.00
10	.00	.00	.00	.00	.00	.00	.02	.00	.01	.00	.02	.00
11	.00	.00	.00	.00	.00	.78	.01	.00	.01	.00	.21	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
13	.00	.00	.00	.20	.00	.35	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00
16	.00	.00	.00	.00	.22	.35	.05	.10	.64	.00	.00	.00
17	.07	.00	.19	.00	.23	.30	.07	.00	.03	.03	.00	.00
18	.10	.00	.00	.00	.05	.00	.01	.00	.00	.12	.00	.00
19	.00	.53	.00	.00	.00	.00	.00	.01	.07	.70	.00	.00
20	.01	.27	.00	.00	.00	.25	.03	.73	.00	.00	.43	.11
21	.00	.05	.28	.38	.00	.75	.00	1.18	.01	.00	.01	.00
22	.16	.00	.22	.00	.00	.18	.00	.05	.00	.39	.00	.41
23	.07	.00	.15	1.55	.00	.00	.00	.00	.00	.00	.02	.01
24	.02	.43	.00	.00	.00	.00	.00	.00	.00	.01	2.32	.22
25	.09	.00	.00	.13	.00	.33	.04	.00	.00	.00	.02	.03
26	1.56	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.01
27	.94	.00	.20	.00	.00	.02	.00	.09	.00	.10	.00	.37
28	.01	.00	.00	.00	.00	.03	.00	.00	.36	.00	.00	.01
29	.01	.00	.00	.00	.00	.00	.01	.93	.02	.00	.00	.00
30	.01	.00	.00	.70	.00	.13	.00	.00	.00	.00	.00	.00
31	.01	.11	.11	1.90	.00	.66	.00	.01	.00	.00	.00	.00
TOTAL	3.49	1.64	1.89	5.80	1.22	4.81	1.73	3.52	2.34	2.54	4.78	1.17
WTR YR 1982 TOTAL	34.93											



Table 56.--Daily-values rainfall data for Twist Run at Xenia (03241994)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.04	.00	.00	.00	.00	.82	.00	.01	.04	.00
2	.00	.31	.00	.00	.55	.00	.50	.95	.00	.01	.01	.00
3	.00	.07	.00	.00	.06	.00	.13	.86	.30	.01	.00	.00
4	.00	.00	.03	.00	.00	.00	.00	.04	.01	1.20	.04	.00
5	.03	.00	.22	.00	.00	.00	.00	.00	.01	.01	.02	.00
6	.00	.00	.04	.00	.00	.30	.24	.01	.02	.00	.01	.00
7	.05	.01	.00	.00	.03	.04	.34	.52	.01	.00	.00	.00
8	.02	.01	.00	.00	.00	.06	.78	.12	.00	.00	.00	.00
9	.09	.01	.00	.00	.00	.00	.72	.01	.00	.00	.00	.00
10	.16	.01	.00	.11	.00	.00	.02	.00	.00	.00	.00	.00
11	.01	.17	.11	.05	.07	.07	.00	.01	.00	.00	1.18	.10
12	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00	.00	.48
13	.00	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.36	.39	.00	.00	.00	.00
15	.00	.00	.70	.08	.00	.00	.00	.85	.00	.00	.00	.00
16	.00	.00	.48	.00	.00	.00	.02	.01	.00	.00	.00	.19
17	.00	.00	.00	.00	.00	.00	.02	.00	.11	1.24	.00	.00
18	.00	.00	.00	.00	.00	.06	.01	.00	.01	1.85	.01	.01
19	.00	.02	.49	.00	.00	.00	.01	.24	2.88	.02	.01	.00
20	.17	.50	.00	.00	.00	.00	.01	.00	.01	.00	.01	.47
21	.00	1.84	.00	.18	.00	.48	.01	.00	.01	.00	.01	.55
22	.00	.02	.00	1.32	.00	.00	.02	.57	.00	.00	.01	.00
23	.00	.25	.14	.21	.00	.00	.02	.01	.01	.00	.00	.00
24	.00	.04	.01	.00	.00	.00	.04	.01	.01	.83	.01	.01
25	.00	.01	.08	.00	.05	.00	.01	.07	.01	.10	.01	.00
26	.00	.25	.09	.00	.00	.00	.02	.00	.01	.00	.01	.00
27	.00	.00	1.11	.00	.00	.28	.02	.00	1.10	.00	.01	.00
28	.00	.84	.04	.00	.00	.06	.13	.21	.79	.00	1.17	.01
29	.00	.01	.00	.00	---	.00	.04	.62	.03	.00	.02	.00
30	.00	.00	.00	.30	---	.00	3.21	.01	.78	.01	.00	.01
31	.08	---	.00	.00	---	.00	---	.01	---	.11	.00	---
TOTAL	0.61	5.02	3.58	2.25	0.76	1.35	7.03	6.34	6.11	5.40	2.58	1.83
WTR YR 1983 TOTAL	42.86											

Table 57.--Daily-values rainfall data for Harte Run near Greenville (03263171)

Table 57.--Daily-values rainfall data for Harte Run near Greenville (03263171)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.37	.17	.44	.00	.16	.00	.22	.00	.01	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.32	.43
3	.00	.00	.00	.03	.06	.17	.53	.00	.00	.45	.01	.01
4	.00	.00	.08	.31	.52	.08	.00	.00	.00	.15	.55	.01
5	.00	.00	.00	.00	.00	.21	.00	.00	.00	.01	.01	.01
6	.17	.09	.00	.00	.01	.00	.18	.00	.00	.01	.01	.00
7	.00	.00	.00	.02	.00	.09	.00	.12	.00	.00	1.26	.02
8	.00	.00	.00	.00	.00	.00	.00	.84	.00	.01	.02	.00
9	.00	.02	.00	.09	.43	.06	.35	.00	.01	.01	.00	.00
10	.00	.00	.00	.05	.00	.00	.00	.00	.01	.08	.03	.00
11	.00	.00	.00	.00	.00	.17	.11	.00	.00	.01	.06	.00
12	.00	.00	.00	.00	.00	.09	.00	.00	.00	.01	.00	.00
13	.00	.00	.00	.30	.07	.23	.00	.00	.00	.01	.00	.00
14	.00	.00	.00	.05	.00	.00	.00	.00	.00	.01	.00	.00
15	.00	.00	.00	.02	.00	.07	.00	.00	1.47	.00	.00	.00
16	.00	.00	.00	.07	.01	.58	.00	.22	.91	.00	.00	.00
17	.00	.00	.43	.00	1.03	.21	.30	.10	.01	.00	.00	.00
18	.53	.00	.22	.04	.01	.00	.03	.00	.00	.15	.00	.00
19	.05	.00	.07	.00	.03	.00	.00	.00	.14	.14	.00	.00
20	.00	.73	.00	.00	.00	1.21	.02	.02	.31	.33	1.15	.00
21	.00	.09	.05	.22	.00	.01	.00	.35	.01	.00	.01	.09
22	.00	.00	.09	.00	.00	.00	.00	.09	.01	.51	.24	.00
23	.15	.00	1.63	.53	.00	.01	.00	.60	.00	.01	.03	.00
24	.00	.38	.00	.00	.00	.00	.00	.00	.01	.00	.18	.05
25	.00	.00	.00	.06	.00	.10	.00	.00	.01	.00	.03	.09
26	.51	.00	.00	.10	.00	.26	.00	.00	.01	.01	.01	.37
27	.70	.08	.03	.00	.00	.00	.01	.06	.01	.00	.01	.40
28	1.18	.00	.00	.00	.00	.00	.00	.45	.38	.00	.00	.01
29	.00	.00	.08	.00	---	.00	.00	.00	.04	.00	.00	.00
30	.00	.00	.00	.24	---	.00	.00	.67	.01	.00	.00	.00
31	.00	---	.00	1.32	---	.73	---	.00	---	.00	.00	---
TOTAL	3.29	1.39	3.05	3.62	2.61	4.28	1.69	3.52	3.58	1.91	3.94	1.50
WTR YR 1982 TOTAL	34.38											

Table 57.--Daily-values rainfall data for Harte Run near Greenville (03263171)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.35	.00	.17	.04	.00
2	.00	.49	.02	.00	.49	.00	.46	1.25	.00	.01	.00	.00
3	.00	.00	.04	.00	.00	.00	.15	.58	.25	.00	.00	.01
4	.00	.00	.14	.00	.00	.00	.00	.07	.01	1.04	.10	.00
5	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.01	.00	.14	.00	.00	.16	.12	.00	.07	.00	.00	.42
7	.49	.01	.02	.00	.12	.18	.35	.00	.00	.00	.01	.23
8	.02	.01	.00	.00	.00	.87	.00	1.02	.00	.00	.00	.00
9	.39	.01	.00	.00	.00	.03	.13	.00	.00	.00	.00	.00
10	.04	.01	.00	.06	.00	.00	.15	.00	.00	.00	.01	.00
11	.02	.06	.11	.02	.00	.00	.17	.00	.00	.00	.56	.00
12	.00	.55	.00	.01	.00	.00	.26	.00	.00	.00	.00	.00
13	.01	.00	.00	.00	.00	.00	.80	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.26	.15	.00	.00	.00	.00
15	.01	.00	.01	.07	.00	.00	.00	.35	.01	.00	.00	.00
16	.00	.01	.72	.00	.00	.00	.00	.00	.00	.00	.00	.11
17	.01	.00	.00	.01	.00	.00	.28	.00	.00	.00	.14	.00
18	.01	.00	.00	.00	.00	.18	.00	.00	.00	.35	.00	.00
19	.01	.04	.63	.00	.00	.09	.00	.19	.18	.02	.00	.00
20	.17	.87	.02	.00	.00	.00	.00	.00	.00	.00	.01	.33
21	.00	.50	.00	.00	.00	.82	.00	.00	.01	.00	.00	.49
22	.01	.01	.00	.75	.00	.00	.00	.37	.00	.00	.00	.00
23	.01	.62	.07	.18	.00	.00	.00	.01	.00	.00	.00	.00
24	.01	.02	.01	.06	.00	.00	.00	.00	.00	.94	.00	.00
25	.00	.06	.08	.00	.08	.00	.00	.22	.00	.10	.00	.00
26	.01	.32	.23	.00	.00	.00	.00	.00	.01	.16	.00	.00
27	.01	.00	.75	.00	.00	.01	.00	.00	.55	.00	.02	.01
28	.01	.55	.32	.00	.00	.38	.20	.06	.44	.00	.13	.00
29	.00	.03	.00	.00	---	.00	.10	.06	.00	.00	.01	.02
30	.00	.00	.00	.12	---	.00	.31	.00	1.62	.00	.00	.01
31	.04	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	1.29	4.17	3.38	1.28	0.69	2.72	3.74	5.68	3.15	2.79	1.03	1.63
WTR YR 1983 TOTAL	31.55											

Table 58.--Daily-values rainfall data for Kitty Creek at Terre Haute (03267435)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												---
2												.45
3												1.20
4												1.18
5												.00
6												.00
7												.00
8												.38
9												.00
10												.00
11												.00
12												.00
13												.00
14												.00
15												.85
16												.00
17												.00
18												.10
19												.00
20												.00
21												.00
22												.00
23												.00
24												.00
25												.00
26												.00
27												.00
28												.00
29												.00
30												.02
31												---
TOTAL												4.18

WTR YR 1981 TOTAL 4.18

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 58.--Daily-values rainfall data for Kitty Creek at Terre Haute (03267435)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.85	.20	.71	.00	.02	.00	.17	.03	.00	.00
2	.00	.00	.00	.00	.00	.00	.08	.01	.01	.01	.09	.53
3	.00	.00	.00	.15	.11	.25	.42	.00	.01	.14	.00	.00
4	.00	.00	.12	.68	.30	.20	.01	.01	.01	.01	.05	.01
5	.00	.00	.00	.00	.00	.30	.18	.01	.00	.02	.01	.01
6	.19	.09	.00	.00	.00	.00	.01	.00	.01	.02	.01	.00
7	.00	.00	.00	.09	.00	.04	.11	.37	.04	.02	.07	.00
8	.00	.00	.00	.00	.00	.00	.02	.17	.11	.01	.01	.00
9	.00	.03	.00	.02	.24	.15	.14	.00	.07	.02	.01	.00
10	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.02	.00
11	.00	.00	.00	.00	.00	.00	.01	.01	.01	.00	.06	.00
12	.00	.00	.00	.00	.00	.54	.02	.01	.01	.03	.00	.00
13	.00	.00	.00	.15	.00	.22	.00	.00	.00	.01	.00	.00
14	.00	.00	.00	.00	.00	.00	.03	.00	.01	.01	.00	.00
15	.00	.00	.00	.00	.00	.10	.04	.08	1.30	.00	.00	.00
16	.00	.00	.00	.12	.00	.83	.08	.12	1.01	.00	.00	.00
17	.00	.00	.15	.00	1.12	.13	.29	.01	.01	.00	.00	.01
18	.12	.00	.35	.05	.00	.00	.02	.00	.00	.12	.00	.01
19	.00	.00	.00	.00	.00	.00	.02	.01	.04	.06	.00	.00
20	.00	1.70	.00	.00	.00	.80	.05	.12	.15	.01	.35	.00
21	.00	.04	.00	.13	.00	.48	.01	.33	.02	.01	.01	.00
22	.09	.00	.80	.00	.00	.00	.00	.55	.01	.16	.00	.00
23	.01	.00	1.40	1.37	.00	.00	.01	.02	.01	.01	.19	.00
24	.00	.33	.00	.00	.00	.02	.01	.00	.01	.51	.19	.19
25	.10	.00	.00	.02	.00	.11	.03	.00	.01	.00	.02	.10
26	.85	.02	.00	.12	.00	.00	.03	.02	.01	.00	.01	.03
27	1.52	.16	.15	.00	.00	.00	.00	.64	.01	.00	.00	.57
28	.00	.00	.00	.00	.00	.01	.00	.02	1.81	.00	.00	.01
29	.00	.00	.13	.00	---	.02	.00	.55	.06	.00	.00	.01
30	.00	.00	.00	.38	---	.05	.01	.06	.01	.00	.00	.01
31	.00	---	.00	1.80	---	.41	---	.07	---	.00	.00	---
TOTAL	2.88	2.37	3.95	5.28	2.48	4.66	1.66	3.20	4.93	0.72	1.42	1.49
WTR YR 1982 TOTAL	35.04											

Table 58.--Daily-values rainfall data for Kitty Creek at Terre Haute (03267435)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.05	.00	.00	.00	.00	.00	.46	.00	.07	.00	.00
2	.00	.53	.00	.00	.43	.00	.25	.51	.00	.01	.00	.00
3	.00	.05	.00	.00	.05	.00	.30	.70	.42	.18	.00	.00
4	.00	.00	.00	.00	.02	.00	.01	.04	.01	.36	.15	.00
5	.04	.00	.00	.00	.00	.00	.01	.01	.01	.00	.01	.00
6	.01	.00	.24	.00	.00	.13	.11	.02	.06	.00	.00	.00
7	.51	.00	.00	.00	.13	.03	.22	.58	.00	.01	.00	.01
8	.02	.01	.00	.00	.00	.00	.10	.05	.00	.00	.00	.01
9	1.28	.01	.00	.00	.00	.03	.68	.01	.00	.09	.00	.00
10	.03	.01	.00	.06	.00	.00	.36	.00	.00	.01	.00	.00
11	.00	.13	.12	.03	.00	.03	.07	.00	.00	.00	.29	.01
12	.00	.38	.00	.00	.00	.00	.07	.00	.00	.01	.00	.00
13	.01	.00	.00	.00	.00	.00	.39	.00	.00	.01	.00	.00
14	.00	.00	.00	.00	.00	.00	.43	.41	.00	.00	.01	.00
15	.00	.02	.11	.04	.00	.00	.00	.20	.00	.00	.00	.00
16	.00	.00	.84	.00	.00	.00	.03	.01	.00	.00	.00	.21
17	.01	.00	.00	.00	.00	.00	.02	.00	.00	.06	.01	.00
18	.01	.01	.00	.00	.00	.06	.00	.00	.00	.01	.00	.00
19	.01	.00	.42	.00	.00	.15	.01	.10	.44	.00	.00	.00
20	.10	.36	.00	.00	.00	.00	.01	.00	.00	.08	.00	.71
21	.00	1.11	.00	.00	.00	.42	.01	.00	.00	.00	.01	.11
22	.01	.06	.00	.55	.00	.02	.01	.62	.00	.12	.05	.00
23	.01	.24	.00	.24	.00	.00	.01	.00	.00	.36	.01	.00
24	.01	.05	.09	.03	.00	.00	.01	.00	.01	.01	.01	.00
25	.01	.14	.00	.00	.01	.00	.02	.26	.00	.00	.01	.00
26	.02	.32	.15	.00	.00	.00	.02	.00	.01	.00	.00	.00
27	.02	.00	1.15	.00	.00	.00	.05	.01	.00	.01	.03	.01
28	.01	.62	.33	.00	.00	.28	.18	.02	.63	.00	.30	.05
29	.00	.00	.00	.00	---	.00	.01	.18	.01	.00	.01	.02
30	.00	.00	.00	.15	---	.00	1.78	.00	.84	.00	.00	.02
31	.20	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	2.33	4.10	3.45	1.10	0.64	1.15	5.17	4.19	2.44	1.40	0.90	1.17
WTR YR 1983	TOTAL	28.04										

Table 59.--Daily-values rainfall data for Trippetts Branch at Camden (03272695)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.20
2												.54
3												.27
4												.00
5												.00
6												.00
7												.02
8												.15
9												.00
10												.00
11												.00
12												.01
13												.00
14												.98
15												.01
16												.05
17												.08
18												.01
19												.00
20									.02		.00	.01
21									.01		.01	.01
22									.01		.00	.00
23									.00		.01	.01
24									.00		.01	.01
25									.00		.00	.00
26									.00		.01	.01
27									.00		.00	.00
28									.03		.00	.00
29									.01		.06	.06
30									1.42		.02	.02
31									.06		---	---
TOTAL									1.56			2.45

WTR YR 1981 TOTAL 4.01

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR



Table 59.--Daily-values rainfall data for Trippetts Branch at Camden (03272695)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.55	.26	.41	.00	.01	.00	.28	.01	.01	.01
2	.00	.00	.01	.00	.00	.00	.19	.00	.02	.00	.00	.00
3	.01	.00	.00	.20	.09	.24	.36	.00	.01	.02	.01	.00
4	.01	.00	.08	.65	.35	.37	.00	.01	.05	.00	.65	.00
5	.00	.09	.03	.00	.00	.12	.39	.01	.01	.02	.02	.00
6	.37	.04	.00	.00	.01	.00	.01	.01	.00	.01	.01	.00
7	.00	.00	.00	.08	.00	.05	.00	1.20	.04	.03	.20	.00
8	.00	.00	.00	.00	.00	.01	.00	.40	.95	.26	.06	.00
9	.01	.06	.01	.07	.43	.05	.20	.01	.16	.02	.00	.00
10	.00	.05	.01	.00	.00	.00	.01	.01	.00	.05	.02	.00
11	.00	.00	.01	.00	.00	.37	.00	.01	.00	.00	.10	.00
12	.01	.00	.00	.00	.00	.16	.01	.01	.01	.01	.00	.00
13	.01	.00	.00	.16	.00	.21	.00	.01	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.01	.01	.02	.00	.00	.00
15	.00	.00	.00	.00	.00	.21	.02	.01	.38	.01	.00	.00
16	.00	.00	.00	.10	.03	.69	.14	.01	.60	.00	.26	.00
17	.06	.00	.27	.00	.33	.01	.42	.01	.01	.00	.01	.00
18	.00	.00	.20	.06	.00	.00	.01	.00	.00	.00	.00	.00
19	.01	.00	.00	.00	.00	.01	.01	.00	.06	.41	.01	.00
20	.01	1.34	.00	.00	.00	1.00	.00	.74	.03	.01	.33	.00
21	.01	.03	.15	.15	.00	.04	.00	.28	.01	.00	.00	.01
22	.15	.00	.53	.00	.00	.00	.00	.01	.00	.66	.01	.01
23	.00	.00	1.33	.68	.00	.00	.00	.00	.01	.00	.01	.00
24	.15	.40	.00	.01	.00	.01	.00	.00	.01	.01	.28	.36
25	.26	.00	.00	.09	.00	.26	.26	.00	.01	.00	.01	.30
26	.94	.00	.00	.10	.00	.01	.07	.11	.01	.01	.00	.28
27	.83	.33	.18	.00	.00	.00	.00	.09	.03	.35	.00	.30
28	.00	.00	.00	.00	.00	.01	.00	.01	1.05	.02	.01	.01
29	.00	.00	.19	.00	---	.02	.01	1.36	.01	.01	.01	.01
30	.00	.00	.00	.22	---	.16	.00	.01	.00	.01	.00	.00
31	.00	---	.00	1.34	---	.38	---	.17	---	.01	.00	---
TOTAL	2.84	2.34	3.55	4.17	1.65	4.39	2.13	4.50	3.78	1.94	2.01	1.29
WTR YR 1982 TOTAL	34.59											

Table 59.--Daily-values rainfall data for Trippetts Branch at Camden (03272695)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.00	.00	.00	.00	.00	.63	.00	.00	.03	.00
2	.01	.27	.01	.00	.54	.00	.32	1.09	.00	.00	.00	.00
3	.00	.01	.09	.00	.00	.00	.29	.44	.37	.05	.00	.00
4	.00	.00	.02	.00	.05	.00	.03	.02	.01	.65	.10	.00
5	.00	.01	.03	.00	.00	.00	.00	.01	.00	.00	.00	.00
6	.01	.00	.09	.00	.00	.22	.25	.02	.04	.00	.00	.00
7	.19	.01	.01	.00	.05	.00	.17	.53	.00	.00	.00	.00
8	.02	.01	.00	.00	.00	.49	.25	.01	.00	.00	.00	.00
9	.10	.01	.00	.00	.00	.00	.60	.01	.00	.00	.00	.00
10	.01	.01	.00	.02	.00	.00	.40	.00	.01	.00	.01	.00
11	.00	.29	.11	.01	.03	.00	.09	.00	.00	.00	1.56	.00
12	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
13	.02	.02	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.50	.36	.00	.00	.01	.00
15	.00	.03	.12	.03	.00	.00	.00	.29	.47	.00	.01	.00
16	.00	.01	.77	.00	.00	.00	.10	.01	.01	.00	.00	.00
17	.01	.00	.00	.01	.00	.00	.01	.00	.01	.09	.00	.00
18	.01	.00	.00	.00	.00	.20	.00	.00	.00	.93	.00	.00
19	.00	.08	.17	.00	.00	.03	.01	.05	.38	.02	.01	.00
20	.17	.49	.00	.00	.00	.00	.00	.00	.01	.00	.01	.48
21	.00	1.11	.00	.00	.00	.70	.01	.00	.00	.00	.00	.16
22	.00	.11	.00	1.18	.00	.01	.01	.82	.01	.00	.06	.00
23	.00	.33	.01	.15	.00	.00	.01	.00	.01	.27	.10	.00
24	.01	.03	.12	.00	.00	.00	.04	.01	.00	.35	.02	.00
25	.01	.00	.06	.00	.00	.00	.01	.08	.00	.03	.01	.00
26	.01	.20	.32	.00	.00	.00	.02	.00	.01	.01	.01	.00
27	.01	.00	1.50	.00	.00	.05	.02	.01	.00	.01	.00	.01
28	.01	.01	.37	.00	.00	.15	.12	.08	.35	.01	.16	.00
29	.00	.01	.00	.00	---	.00	.01	.25	.29	.00	.01	.00
30	.02	.00	.00	.16	---	.00	3.23	.00	.74	.01	.00	.01
31	.20	---	.00	.00	---	.00	---	.00	---	.04	.00	---
TOTAL	0.83	4.36	3.80	1.56	0.67	1.85	6.90	4.72	2.72	2.47	2.11	0.75

WTR YR 1983 TOTAL 32.74

Table 60.--Daily-values rainfall data for Carter Creek near New Bremen (04180907)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
SUMMATION VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL												0.31

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 60.--Daily-values rainfall data for Carter Creek near New Bremen (04180907)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.15	.38	.00	.00	.01	.00	.13	.00	.00	.00
2	.00	.02	.00	.09	.00	.00	.01	.00	.10	.00	.62	.63
3	.00	.01	.00	.20	.15	.56	.40	.00	.08	.02	.00	.00
4	.00	.00	.10	.54	.42	.45	.00	.00	.12	.01	.02	.00
5	.00	.00	.01	.00	.00	.03	.01	.00	.08	.00	.00	.00
6	.18	.07	.00	.00	.03	.00	.04	.00	.01	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.28	1.49	.01	.02	.04	.04
8	.00	.00	.00	.00	.00	.00	.02	.07	.00	.00	.23	.00
9	.00	.00	.00	.07	.26	.00	.09	.00	.20	.00	.01	.00
10	.00	.00	.00	.00	.00	.00	.04	.01	.00	.31	.01	.00
11	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.03	.00	.20	.01	.00	.02	.00	.00	.00
13	.00	.00	.00	.14	.00	.45	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.06
15	.00	.00	.00	.00	.00	.05	.01	.42	.63	.00	.00	.00
16	.03	.00	.00	.06	.00	.90	.16	.00	.23	.00	.01	.00
17	.00	.00	.20	.00	.86	.00	.14	.00	.00	.04	.00	.00
18	.41	.00	.18	.00	.00	.00	.00	.00	.00	.21	.00	.01
19	.07	.00	.00	.00	.14	.00	.00	.10	.01	.08	.00	.00
20	.00	.63	.00	.00	.00	.56	.05	.10	.01	.00	.26	.04
21	.00	.00	.15	.00	.00	.00	.00	.21	.03	.01	.00	.00
22	.00	.00	.06	.06	.00	.00	.00	.23	.01	1.45	.08	.01
23	.34	.00	1.55	.63	.00	.00	.00	.01	.01	.19	.08	.00
24	.00	.56	.00	.00	.00	.01	.00	.00	.00	.00	.72	.02
25	.00	.00	.00	.02	.00	.16	.00	.00	.00	.00	.01	.02
26	.12	.00	.00	.06	.00	.00	.01	.21	.00	.00	.00	.20
27	.53	.15	.17	.00	.00	.00	.00	1.60	.00	.01	.01	.91
28	.78	.00	.02	.00	.00	.00	.00	.02	.00	.02	.00	.00
29	.00	.00	.23	.00	---	.01	.00	.54	.04	.00	.00	.00
30	.00	.00	.00	.64	---	.81	.00	.12	.12	.01	.00	.00
31	.00	---	.00	1.23	---	.12	---	.20	---	.00	.00	---
TOTAL	2.46	1.44	2.82	4.15	1.86	4.71	1.28	5.34	1.84	2.38	2.10	1.94
WTR YR 1982 TOTAL												32.32

Table 60.--Daily-values rainfall data for Carter Creek near New Bremen (04180907)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.70	.01	.09	.00	.00
2	.00	.59	.00	.00	.43	.00	.57	.42	.00	.01	.00	.00
3	.00	.00	.06	.00	.00	.00	.60	.37	.22	.00	.00	.00
4	.00	.00	.13	.00	.00	.00	.02	.01	.01	.79	.08	.00
5	.00	.00	.07	.00	.00	.00	.07	.00	.22	.00	.00	.02
6	.02	.00	.01	.00	.00	.00	.04	.01	.16	.00	.00	.72
7	.24	.00	.01	.00	.20	.04	1.10	.45	.01	.00	.00	.00
8	.01	.01	.00	.00	.00	.31	.07	.02	.00	.01	.00	.00
9	.34	.00	.00	.00	.00	.18	.07	.01	.00	.00	.00	.00
10	.01	.00	.00	.02	.00	.00	.14	.01	.01	.00	.00	.00
11	.00	.11	.04	.00	.00	.09	.09	.01	.00	.00	.31	.00
12	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.53	.01	.00	.00	.00	.00
15	.00	.00	.09	.03	.00	.00	.00	.40	.18	.00	.00	.00
16	.00	.00	.62	.00	.00	.00	.14	.00	.00	.00	.00	.20
17	.01	.00	.01	.00	.00	.00	.00	.00	.00	.15	.03	.00
18	.01	.01	.00	.00	.00	.07	.00	.00	.22	.00	.00	.00
19	.00	.00	.25	.00	.00	.10	.00	.65	.35	.00	.00	.00
20	.18	.64	.01	.00	.00	.00	.00	.00	.00	.03	.00	.32
21	.00	.52	.00	.00	.00	.77	.01	.00	.00	.00	.00	.43
22	.00	.01	.00	.37	.00	.00	.01	.93	.01	.11	.00	.00
23	.00	.75	.03	.12	.00	.00	.00	.00	.00	.03	.00	.00
24	.01	.03	.04	.01	.00	.00	.00	.00	.00	.01	.00	.00
25	.01	.00	.00	.00	.03	.00	.01	.22	.00	.18	.00	.01
26	.01	.40	.20	.00	.00	.00	.02	.00	.00	.00	.16	.01
27	.00	.01	.46	.00	.00	.00	.18	.01	.06	.00	.00	.00
28	.00	.54	.18	.00	.00	.20	.05	.04	.64	.00	.00	.00
29	.01	.03	.01	.00	---	.00	.02	.04	.01	.00	.00	.02
30	.00	.00	.00	.12	---	.00	1.68	.02	.72	.00	.00	.00
31	.04	---	.00	.00	---	.00	---	.06	---	.01	.00	---
TOTAL	0.90	4.18	2.22	0.67	0.66	1.76	5.92	4.39	2.83	1.42	0.58	1.73
WTR YR 1983 TOTAL	27.26											

Table 61.--Daily-values rainfall data for Racetrack Run at Hicksville (04183750)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	----	.00	.14	.11	.75	.00	.01	.00	.44	.00	.00	.00
2	----	.01	.00	.00	.00	.00	.01	.00	.00	.99	.41	.01
3	----	.01	.00	.15	.00	.38	.36	.00	.00	2.12	.01	.00
4	----	.01	.15	.24	.49	.32	.01	.00	.00	.02	.00	.01
5	----	.00	.04	.00	.04	.41	.00	.00	.00	.04	.00	.01
6	----	.01	.00	.00	.11	.00	.03	.00	.00	.00	.01	.16
7	----	.00	.00	.11	.00	.00	.11	.63	.00	.00	.01	.27
8	.00	.00	.07	.00	.00	.00	.02	.00	.00	.00	.42	.01
9	.00	.00	.02	.08	.19	.14	.12	.00	.00	.00	.01	.00
10	.00	.02	.00	.01	.00	.00	.04	.00	.47	.00	.00	.00
11	.00	.00	.00	.02	.00	.00	.00	.00	.00	.88	.01	.00
12	.00	.00	.00	.01	.00	.00	.01	.00	.00	.00	.01	.00
13	.00	.00	.00	.12	.04	.05	.00	.00	.00	.00	.01	.00
14	.01	.00	.00	.04	.00	.00	.01	.00	.00	.00	.00	.11
15	.01	.00	.00	.00	.00	.00	.01	.18	.00	.00	.00	.00
16	.00	.00	.00	.09	.00	.09	.30	.19	.38	.00	.01	.01
17	.01	.00	.09	.01	.02	.67	.36	.00	.76	.00	.01	.06
18	.24	.02	.16	.03	.00	.00	.01	.02	.00	.00	.01	.31
19	.00	.01	.01	.00	.14	.00	.01	.11	.15	1.18	.00	.00
20	.01	.38	.02	.00	.00	.46	.04	.04	.21	.01	.26	.00
21	.02	.10	.05	.04	.00	.07	.00	.46	.96	.01	.00	.03
22	.97	.00	.19	.00	.00	.00	.00	.41	.14	.04	.03	.01
23	.00	.00	1.03	.67	.00	.00	.00	.93	.06	.01	.01	.01
24	.06	.28	.00	.00	.40	.00	.00	.00	.00	.02	.16	.00
25	.01	.00	.00	.00	.00	.23	.00	.00	.00	.01	.01	.00
26	.04	.02	.00	.06	.00	.00	.00	.00	.00	.01	.01	.35
27	.69	.08	.23	.00	.00	.01	.00	.09	.00	.00	.01	.92
28	.01	.00	.10	.00	.00	.01	.00	2.06	.00	.01	.01	.01
29	.00	.00	.25	.00	----	.02	.00	.00	.21	.01	.00	.02
30	.00	.00	.00	.86	----	.70	.00	.06	.00	.00	.01	.02
31	.00	----	.00	.35	----	.01	----	.04	----	.01	.00	----
TOTAL	2.08	0.95	2.55	3.00	2.18	3.57	1.46	5.22	3.78	5.37	1.44	2.33

WTR YR 1982 TOTAL 33.93

Table 61.--Daily-values rainfall data for Racetrack Run at Hicksville (04183750)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	2.85	.00	.00	.00	.00	.00	1.53	.00	.01	.00	.00
2	.01	.95	.00	.00	.32	.00	.37	.43	.00	.40	.01	.01
3	.01	.15	.00	.00	.17	.00	.53	.13	.15	.00	.01	.00
4	.01	.00	.55	.00	.04	.00	.08	.01	.02	.18	.25	.01
5	.01	.00	.27	.00	.00	.00	.03	.01	.06	.00	.01	.00
6	.02	.00	.10	.00	.00	.00	.20	.02	.85	.00	.01	.44
7	.13	.00	.00	.00	.18	.06	.30	.03	.01	.01	.00	.01
8	.02	.00	.00	.00	.00	.40	.02	.11	.02	.00	.00	.01
9	.12	.10	.02	.00	.00	.54	.10	.02	.00	.47	.11	.01
10	.12	.00	.00	.10	.60	.00	.39	.03	.29	.01	.01	.00
11	.01	.11	.00	.03	.00	.03	.14	.00	.01	.00	.19	.05
12	.00	.29	.00	.00	.00	.00	.01	.00	.01	.01	.01	.00
13	.01	.10	.00	.00	.00	.00	.69	.00	.01	.01	.01	.00
14	.01	.00	.00	.00	.00	.00	.28	.24	.01	.01	.01	.01
15	.01	.00	.02	.03	.00	.00	.00	.05	.32	.00	.01	.01
16	.00	.00	.70	.00	.00	.00	.07	.00	.01	.01	.01	.15
17	.01	.00	.00	.00	.01	.00	.00	.00	.01	.01	.19	.01
18	.02	.00	.00	.00	.00	.16	.00	.01	.00	.00	.08	.01
19	.02	.00	.01	.00	.00	.33	.01	.43	.00	.01	.01	.16
20	.19	.56	.14	.00	.00	.00	.01	.00	.02	.00	.00	.59
21	.00	.37	.00	.00	.00	.65	.01	.01	.01	.33	.17	.09
22	.00	.01	.00	.10	.00	.04	.02	1.02	.01	.07	.01	.00
23	.00	.02	.14	.41	.00	.00	.01	.05	.01	.01	.01	.00
24	.00	.33	.04	.00	.00	.00	.01	.00	.01	.00	.02	.01
25	.00	.00	.23	.00	.00	.00	.01	.10	.01	.00	.01	.02
26	.00	.04	.80	.00	.00	.00	.00	.00	.01	.01	.08	.01
27	.00	.16	.05	.00	.00	.10	.02	.00	.29	.01	.01	.02
28	.00	.30	.53	.00	.00	.30	.40	.00	.39	.00	.01	.02
29	.00	.28	.00	.00	---	.03	.42	.09	.00	.00	.01	.02
30	.00	.00	.00	.16	---	.00	.72	.01	.33	.66	.00	.03
31	.71	---	.00	.00	---	.00	---	.05	---	.30	.01	---
TOTAL	1.45	6.62	3.60	0.83	1.32	2.64	4.85	4.38	2.88	2.52	1.27	1.70

WTR YR 1983 TOTAL 34.06

Table 62.--Daily-values rainfall data for King Run near Harrod (04186800)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.25
2												.11
3												1.69
4												.08
5												.00
6												.01
7												.01
8												.19
9												.01
10												.02
11												.02
12												.02
13												.03
14											.00	
15											.00	1.20
16											.01	.01
17											.00	.26
18											.01	.27
19											.00	.19
20											.01	.02
21											.00	.01
22											.00	.01
23											.01	.01
24											.00	.02
25											.00	.01
26												
27											.00	.02
28											.00	.06
29											.00	.01
30											.01	.11
31											1.09	.17
											1.10	---
TOTAL											2.24	4.83
WTR YR 1981 TOTAL											7.07	

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR



Table 62.--Daily-values rainfall data for King Run near Harrod (04186800)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.39	.14	.80	.00	.01	.00	.16	.00	.00	.65
2	.00	.00	.00	.00	.00	.00	.02	.01	.01	.01	.25	.17
3	.00	.00	.00	.18	.00	.57	.34	.00	.00	.18	.01	.00
4	.00	.01	.12	.55	.79	.25	.00	.00	.00	.01	.10	.01
5	.00	.04	.00	.00	.00	.29	.00	.00	.00	.00	.00	.01
6	1.11	.06	.00	.00	.07	.00	.11	.00	.00	.01	.00	.00
7	.00	.00	.00	.02	.00	.04	.01	.79	.00	.15	.00	.13
8	.00	.00	.00	.00	.00	.00	.00	.25	.01	.01	.14	.01
9	.00	.00	.00	.11	.42	.12	.17	.00	.92	.01	.00	.00
10	.00	.05	.00	.02	.00	.00	.08	.00	.01	.47	.00	.00
11	.00	.01	.00	.00	.00	.03	.00	.00	.00	.01	.00	.00
12	.00	.02	.00	.05	.00	.48	.01	.00	.01	.00	.00	.00
13	.00	.02	.00	.15	.06	.43	.00	.01	.00	.01	.00	.00
14	.00	.01	.00	.00	.00	.00	.01	.01	.01	.01	.00	.21
15	.06	.03	.00	.05	.00	.00	.02	.01	.55	.01	.00	.00
16	.02	.01	.00	.17	.07	.40	.13	.23	.73	.01	.00	.00
17	.02	.00	.09	.00	.69	.93	.12	.01	.00	.06	.00	.00
18	.29	.00	.30	.02	.43	.00	.01	.01	.00	.08	.00	.13
19	.01	.77	.00	.00	.09	.00	.02	.02	.00	.06	.00	.00
20	.01	.07	.00	.00	.00	.85	.02	.10	.83	.02	1.53	.00
21	.01	.22	.00	.02	.00	.01	.01	.18	.01	.00	.01	.00
22	.20	.24	.26	.00	.00	.00	.00	.19	.02	.08	.03	.00
23	.00	.06	1.46	.61	.00	.00	.00	.01	.00	.07	.00	.00
24	.03	.00	.00	.00	.00	.00	.01	.00	.00	.00	.64	.00
25	.05	.00	.00	.02	.00	.08	.05	.00	.00	.01	.01	.01
26	.17	.00	.00	.09	.00	.00	.11	.00	.00	.00	.01	.17
27	1.95	.12	.10	.00	.00	.01	.00	2.54	.00	.01	.01	1.05
28	.01	.00	.05	.00	.00	.00	.00	.01	1.58	.06	.00	.01
29	.00	.00	.46	.00	---	.01	.00	.19	.04	.00	.00	.00
30	.01	.00	.00	.52	---	.78	.01	.12	.00	.00	.01	.00
31	.00	---	.00	1.14	---	.03	---	.01	---	.01	.00	---
TOTAL	3.96	1.74	3.23	3.86	3.42	5.40	1.27	4.70	4.89	1.29	2.82	2.56

WTR YR 1982 TOTAL 39.14

Table 62.--Daily-values rainfall data for King Run near Harrod (04186800)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.89	.00	.00	.00	.00	.00	.38	.00	.21	.00	.00
2	.00	.95	.00	.00	.30	.00	.43	.58	.00	.01	.00	.00
3	.00	.00	.04	.00	.06	.00	.42	.29	.15	.02	.01	.00
4	.00	.01	.16	.00	.00	.00	.03	.09	.01	.55	.07	.00
5	.00	.00	.06	.00	.00	.00	.06	.01	.52	.00	.00	.01
6	.00	.00	.04	.00	.00	.06	.03	.02	.13	.00	.00	.90
7	.19	.00	.00	.00	.20	.23	.42	.43	.01	.00	.00	.01
8	.02	.03	.00	.00	.00	.00	.12	.00	.00	.00	.00	.01
9	.76	.00	.04	.00	.00	.55	.15	.00	.00	.00	.00	.01
10	.01	.00	.00	.08	.00	.00	.22	.02	.02	.00	.00	.01
11	.00	.11	.14	.04	.00	.03	.03	.02	.00	.00	.27	.00
12	.00	.32	.00	.00	.00	.02	.04	.00	.01	.00	.01	.00
13	.02	.00	.00	.00	.00	.00	.22	.00	.00	.00	.01	.01
14	.00	.00	.00	.00	.00	.00	.79	.00	.00	.00	.01	.00
15	.00	.00	.00	.08	.00	.00	.00	.52	.00	.00	.00	.00
16	.00	.00	.58	.00	.00	.00	.08	.00	.00	.00	.00	1.03
17	.01	.01	.00	.02	.00	.00	.06	.00	.00	.19	.02	.00
18	.01	.00	.00	.00	.00	.22	.01	.00	.00	.16	.00	.01
19	.01	.00	.07	.00	.00	.33	.01	.16	1.07	.01	.00	.01
20	.19	.50	.31	.00	.00	.03	.02	.00	.00	.01	.00	.29
21	.00	.54	.00	.00	.00	.43	.02	.00	.00	.00	.01	.43
22	.00	.00	.00	.13	.00	.16	.02	.68	.00	.41	.00	.00
23	.00	.81	.02	.20	.00	.00	.02	.01	.00	.01	.00	.00
24	.01	.03	.00	.02	.00	.00	.01	.01	.00	.00	.00	.01
25	.01	.01	.03	.00	.02	.00	.01	.22	.00	.00	.00	.03
26	.01	.35	.02	.00	.00	.00	.02	.01	.01	.00	.00	.02
27	.01	.00	.21	.00	.00	.02	.06	.00	.10	.01	.00	.01
28	.01	.64	.62	.00	.00	.29	.24	.00	.41	.00	.01	.01
29	.00	.01	.00	.00	---	.02	.04	.06	.00	.00	.01	.01
30	.01	.00	.00	.22	---	.00	1.36	.01	.29	.18	.01	.00
31	.67	---	.00	.00	---	.00	---	.02	---	.02	.00	---
TOTAL	1.95	5.21	2.34	0.79	0.58	2.39	4.84	3.66	2.73	1.79	0.44	2.82
WTR YR 1983 TOTAL	29.54											

Table 63.--Daily-values rainfall data for Stripe Creek near Van Wert (04191003)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
SUMMATION VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												.10
18												.13
19												.06
20												.00
21												.00
22												.00
23												.00
24												.00
25												.00
26												.00
27												.24
28												.00
29												.00
30												.30
31												
TOTAL												0.83
WTR YR 1981	TOTAL											0.83

Table 63.--Daily-values rainfall data for Stripe Creek near Van Wert (04191003)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.00	.08	.00	.00	.00	.01	.00	.19	.00	.00	.01
2	.00	.00	.00	.00	.00	.63	.00	.00	.00	.10	.28	.12
3	.00	.00	.00	.19	.41	.00	.44	.00	.00	.54	.01	.00
4	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.03	.12	.00	.10	.38	.00	.00	.00	.00	.00	.00
6	.70	.02	.00	.00	.00	.23	.00	.00	.00	.00	.00	.00
7	.00	.00	.02	.18	.00	.00	.00	.60	.00	.00	.01	.26
8	.01	.00	.00	.00	.21	.00	.00	.01	.00	.00	.59	.01
9	.00	.00	.00	.00	.00	.19	.14	.00	.06	.00	.01	.00
10	.00	.00	.00	.00	.00	.00	.05	.00	.00	.57	.00	.00
11	.00	.00	.00	.00	.00	.54	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.07	.44	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.16
15	.03	.00	.00	.00	.00	.00	.01	.19	.53	.00	.00	.00
16	.00	.00	.00	.00	.38	.73	.24	.00	.63	.01	.00	.00
17	.02	.00	.00	.00	.15	.00	.26	.01	.00	.00	.00	.01
18	.50	.00	.18	.18	.12	.00	.01	.00	.00	.03	.00	.13
19	.01	.00	.09	.00	.00	.78	.00	.06	.15	.08	.00	.00
20	.00	.33	.00	.00	.00	.00	.03	.05	.43	.00	.51	.00
21	.00	.00	.00	.00	.00	.00	.00	.17	.01	.00	.00	.00
22	.77	.00	.60	.00	.00	.00	.00	.18	.13	.16	.10	.00
23	.00	.00	1.28	.85	.00	.00	.00	.00	.00	.00	.01	.01
24	.02	.29	.00	.00	.05	.01	.00	.00	.00	.00	.56	.00
25	.01	.00	.00	.00	.00	.38	.00	.00	.00	.00	.01	.00
26	.06	.00	.00	.00	.00	.01	.19	.13	.00	.00	.00	.49
27	1.14	.17	.00	.00	.00	.08	.00	.60	.00	.06	.00	.93
28	.00	.00	.48	.00	.00	.00	.00	.16	.14	.06	.00	.01
29	.00	.00	.34	.00	---	.01	.00	.29	.27	.00	.00	.00
30	.00	.00	.00	.98	---	.05	.00	.03	.00	.02	.00	.00
31	.00	---	.00	.00	---	.02	---	.18	---	.01	.00	---
TOTAL	3.54	0.84	3.19	3.10	1.49	4.48	1.39	2.66	2.54	1.64	2.09	2.14
WTR YR 1982 TOTAL	29.10											

Table 63.--Daily-values rainfall data for Stripe Creek near Van Wert (04191003)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.42	.00	.00	.00	.00	.00	.78	.00	.01	.00	.00
2	.00	.00	.00	.00	.50	.00	.34	.72	.00	.04	.00	.00
3	.00	.00	.00	.00	.00	.00	.47	.34	.44	.00	.00	.00
4	.00	.00	.32	.00	.00	.00	.23	.08	.17	.96	.31	.00
5	.00	.00	.00	.00	.00	.00	.24	.00	.31	.01	.00	.00
6	.01	.00	.00	.00	.00	.00	.17	.00	.43	.00	.00	.41
7	.12	.00	.00	.00	.22	.00	.00	.07	.01	.00	.00	.15
8	.02	.02	.00	.00	.00	.48	.00	.03	.00	.00	.00	.00
9	.10	.01	.00	.00	.00	.11	.31	.00	.00	.17	.00	.00
10	.02	.02	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
11	.00	.16	.00	.00	.00	.00	.11	.00	.00	.00	.76	.01
12	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.00
14	.01	.01	.00	.00	.00	.00	.69	.01	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.19	.33	.00	.00	.00
16	.00	.00	.63	.00	.00	.00	.10	.00	.00	.00	.00	.34
17	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00	.15	.00
18	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
19	.01	.11	.00	.00	.00	.45	.00	.14	.01	.00	.00	.00
20	.15	.57	.00	.00	.00	.00	.00	.00	.01	.00	.00	.26
21	.00	.34	.00	.00	.00	1.02	.00	.00	.00	.29	.21	.20
22	.01	.00	.00	.00	.00	.00	.00	.59	.00	.16	.00	.00
23	.01	.58	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.01	.03	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00
25	.01	.05	.00	.00	.00	.00	.00	.24	.00	.01	.00	.00
26	.02	.26	1.15	.00	.00	.00	.00	.00	.01	.00	.14	.01
27	.02	.00	.14	.00	.00	.00	.01	.00	.86	.00	.00	.00
28	.01	.66	.00	.00	.00	.45	.40	.00	.73	.00	.00	.00
29	.01	.00	.51	.00	---	.00	.04	.28	.00	.00	.00	.01
30	.01	.01	.00	.20	---	.00	.35	.00	.26	.21	.00	.01
31	1.11	---	.00	.00	---	.00	---	.03	---	.46	.45	---
TOTAL	1.68	3.62	3.25	0.73	0.72	2.51	3.81	3.51	3.58	2.32	2.02	1.40

WTR YR 1983 TOTAL 29.15

Table 64.--Daily-values rainfall data for Reitz Run at Waterville (04192900)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												---
2												---
3												---
4												---
5												---
6												---
7												---
8												---
9												---
10												---
11												---
12												---
13												---
14												---
15												---
16												.00
17												.47
18												.42
19												.00
20												.00
21												.00
22												.10
23												.00
24												.00
25												.00
26												.00
27												.42
28												.00
29												.00
30												.39
31												---
TOTAL												1.80

WTR YR 1981 TOTAL 1.80

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 64.--Daily-values rainfall data for Reitz Run at Waterville (04192900)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.00	.27	.09	.42	.00	.00	.00	.33	.00	.00	.03
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.00
3	.00	.00	.00	.07	.03	.18	.48	.00	.00	1.20	.00	.00
4	.00	.00	.19	.47	.53	.24	.02	.00	.00	.00	.09	.00
5	.00	.09	.07	.00	.00	.72	.00	.00	.00	.01	.00	.00
6	.49	.04	.00	.00	.14	.00	.03	.00	.00	.00	.00	.02
7	.00	.00	.08	.17	.00	.02	.13	.35	.00	.02	.00	.16
8	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.55	.00
9	.00	.00	.03	.04	.20	.21	.01	.00	.03	.00	.06	.00
10	.00	.00	.00	.00	.00	.00	.07	.00	.01	.22	.00	.00
11	.00	.00	.00	.02	.00	.08	.01	.00	.00	.01	.00	.01
12	.00	.00	.00	.00	.00	.07	.00	.00	.00	.01	.00	.00
13	.00	.00	.00	.07	.00	.20	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.04
15	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.01
16	.00	.00	.00	.10	.00	.48	.25	.00	.64	.00	.01	.00
17	.00	.00	.05	.00	.00	.00	.30	.00	.01	.00	.00	.00
18	.75	.02	.16	.03	.00	.00	.00	.00	.00	.00	.00	.21
19	.07	.27	.00	.00	.24	.16	.00	.01	.13	.68	.00	.00
20	.00	.14	.00	.00	.00	.28	.05	.00	.23	.01	.65	.00
21	.00	.00	.03	.04	.00	.01	.00	.44	.03	.00	.00	.00
22	.02	.00	.30	.00	.00	.00	.00	.32	.33	.07	.03	.01
23	.63	.04	.93	.73	.00	.00	.00	.61	.00	.00	.01	.01
24	.01	.02	.00	.00	.28	.02	.00	.00	.00	.00	.02	.02
25	.00	.00	.00	.00	.03	.17	.00	.00	.00	.00	.00	.02
26	.04	.07	.00	.05	.00	.00	.08	.00	.12	.00	.00	.06
27	.55	.00	.14	.00	.00	.00	.00	.28	.01	.00	.00	1.03
28	1.04	.00	.09	.00	.00	.00	.00	1.02	1.03	.00	.00	.02
29	.00	.00	.25	.00	---	.01	.00	.00	.06	.00	.00	.00
30	.00	.02	.00	.73	---	1.13	.00	.01	.00	.21	.00	.01
31	.00	---	.00	.40	---	.02	---	.18	---	.01	.00	---
TOTAL	3.79	0.71	2.59	3.09	1.87	4.00	1.43	3.23	3.18	2.46	1.48	1.66

WTR YR 1982 TOTAL 29.49

Table 64.--Daily-values rainfall data for Reitz Run at Waterville (04192900)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	2.31	.00	.00	.00	.00	.00	.76	.00	.01	.00	.00
2	.00	1.13	.00	.00	.21	.00	.17	.41	.00	.02	.01	.00
3	.01	.00	.00	.00	.04	.00	.39	.25	.01	.00	.00	.00
4	.00	.00	.20	.00	.02	.00	.03	.10	.01	1.43	.18	.01
5	.14	.00	.12	.00	.00	.00	.00	.00	.06	.00	.00	.00
6	.01	.00	.04	.00	.00	.08	.03	.01	.93	.00	.00	.59
7	.03	.00	.00	.00	.16	.28	.53	.11	.01	.00	.00	.00
8	.01	.01	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00
9	.00	.01	.00	.00	.00	.06	.00	.01	.00	.00	.00	.00
10	.00	.01	.03	.00	.00	.00	.35	.00	.00	.00	.00	.00
11	.00	.34	.00	.08	.00	.11	.10	.01	.00	.01	.98	.02
12	.00	.56	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00
13	.00	.01	.00	.00	.00	.00	.15	.00	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.41	.36	.01	.00	.00	.00
15	.01	.00	.00	.06	.00	.00	.31	.10	.00	.00	.00	.00
16	.00	.00	.88	.00	.00	.00	.00	.00	.01	.00	.00	.46
17	.00	.00	.03	.00	.00	.00	.00	.00	.00	.84	.11	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.01
19	.01	.00	.00	.00	.00	.23	.00	.26	.00	.01	.00	.00
20	.21	.72	.36	.00	.00	.02	.00	.00	.00	.00	.00	.65
21	.00	.67	.00	.00	.00	.55	.00	.00	.00	.13	.15	.13
22	.00	.40	.00	.04	.00	.00	.01	.72	.00	.13	.00	.00
23	.00	.00	.20	.28	.00	.00	.01	.00	.00	.00	.00	.00
24	.00	.56	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
25	.01	.00	.09	.00	.00	.00	.01	.16	.00	.00	.01	.01
26	.00	.02	1.05	.00	.00	.00	.01	.00	.00	.00	.12	.01
27	.00	.22	.05	.00	.00	.05	.00	.00	.78	.00	.00	.00
28	.00	.00	.29	.00	.00	.00	.32	.00	.75	.00	.08	.00
29	.04	.64	.00	.00	---	.02	.19	.42	.00	.72	.00	.01
30	.00	.00	.00	.06	---	.00	.67	.01	.88	.10	.00	.00
31	.48	---	.00	.03	---	.00	---	.01	---	1.81	.00	---
TOTAL	0.97	7.61	3.34	0.55	0.43	1.72	3.69	3.87	3.46	5.72	1.65	1.90
WTR YR 1983 TOTAL	34.91											



Table 65.--Daily-values rainfall data for Browns Run near Crawford (04196825)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												.00
10												.03
11												.01
12												.00
13												.00
14												.17
15												.03
16												.35
17												.12
18												2.05
19												.02
20												.00
21												.00
22												.00
23												.00
24												.01
25												.00
26												.00
27												.00
28												.00
29												.00
30												.15
31												
TOTAL												2.94

WTR YR 1981 TOTAL 2.94

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 65.--Daily-values rainfall data for Browns Run near Crawford (04196825)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.41	.13	.54	.00	.00	.01	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.87
3	.00	.00	.00	.03	.00	.56	.40	.00	.00	1.96	.01	.00
4	.00	.00	.13	.54	.43	.19	.04	.00	.00	.01	.05	.00
5	.00	.04	.01	.00	.00	.38	.00	.00	.00	.01	.00	.00
6	.91	.08	.00	.00	.04	.00	.05	.00	.00	.01	.01	.00
7	.00	.00	.23	.00	.00	.04	.00	.33	.00	.05	.00	.05
8	.00	.01	.00	.00	.00	.00	.00	.36	.00	.01	.15	.00
9	.00	.00	.05	.09	.28	.05	.16	.00	.00	.01	.00	.00
10	.00	.03	.00	.00	.00	.00	.08	.00	.52	.39	.00	.00
11	.00	.00	.00	.03	.00	.26	.00	.00	.00	.02	.00	.00
12	.00	.00	.00	.01	.00	.03	.00	.01	.00	.00	.00	.00
13	.00	.00	.00	.28	.07	.28	.00	.00	.00	.00	.00	.00
14	.00	.01	.00	.03	.00	.00	.00	.00	.00	.01	.00	.05
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
16	.00	.00	.00	.20	.14	.73	.23	.01	1.03	.01	.00	.00
17	.00	.01	.04	.00	.26	.00	.14	.00	.56	.00	.00	.00
18	.24	.00	.29	.02	.07	.00	.01	.19	.00	.00	.00	.10
19	.01	.91	.00	.00	.17	.24	.02	.00	.00	.13	.00	.00
20	.02	.13	.00	.00	.00	.24	.02	.38	.00	.01	.47	.00
21	.00	.01	.01	.12	.00	.04	.00	.06	.32	.01	.00	.00
22	.12	.03	.26	.00	.01	.00	.00	.23	.03	.00	.01	.48
23	.00	.00	1.34	.63	.00	.01	.00	.49	.14	.01	.08	.04
24	.01	.25	.00	.00	.02	.01	.00	.00	.00	.01	.10	.07
25	.07	.01	.00	.00	.01	.12	.00	.00	.00	.01	.03	.01
26	.24	.10	.00	.07	.00	.02	.06	.00	.00	.01	.00	.26
27	1.21	.00	.20	.00	.00	.01	.02	.00	.00	.00	.00	.92
28	.00	.00	.00	.00	.00	.00	.00	.02	.00	.08	.00	.02
29	.00	.00	.31	.00	---	.00	.00	2.27	.69	.00	.00	.02
30	.01	.00	.00	.66	---	.53	.00	.41	.25	.00	.00	.02
31	.00	---	.00	1.30	---	.24	---	.01	---	.00	.00	---
TOTAL	2.84	1.62	3.28	4.14	2.04	3.99	1.24	4.78	3.62	2.78	0.91	2.92
WTR YR 1982 TOTAL	34.16											

Table 65.--Daily-values rainfall data for Browns Run near Crawford (04196825)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	1.07	.00	.00	.00	.00	.00	.36	.00	.37	.00	.00
2	.02	.43	.00	.00	.22	.00	.06	.33	.00	.11	.00	.00
3	.01	.00	.00	.00	.23	.00	.67	.31	.18	2.83	.00	.00
4	.02	.00	.04	.00	.05	.00	.15	.09	.01	.00	.79	.00
5	.01	.00	.00	.00	.00	.00	.04	.01	.34	.37	.05	.01
6	.01	.00	.25	.00	.00	.12	.00	.01	.40	.00	.00	1.26
7	.08	.01	.00	.00	.15	.00	.26	.39	.01	.00	.00	.02
8	.03	.01	.00	.00	.00	.01	.05	.31	.00	.00	.00	.01
9	.00	.00	.00	.00	.00	.09	.24	.00	.01	.00	.00	.00
10	.02	.01	.00	.04	.00	.00	.49	.01	.01	.00	.01	.00
11	.01	.29	.30	.29	.00	.43	.04	.01	.01	.00	.29	.00
12	.00	.31	.00	.00	.06	.00	.03	.01	.00	.00	.00	.00
13	.01	.00	.00	.02	.00	.00	.14	.02	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.29	.04	.00	.00	.00	.00
15	.00	.00	.11	.00	.00	.00	.59	.35	.04	.00	.00	.00
16	.00	.01	1.13	.02	.00	.00	.00	.02	.08	.00	.00	1.09
17	.01	.00	.00	.05	.00	.00	.00	.01	.00	.64	.00	.00
18	.01	.00	.00	.00	.00	.02	.04	.00	.00	.05	.02	.01
19	.01	.00	.63	.00	.00	.32	.00	.11	.02	.01	.01	.00
20	.09	.22	.20	.00	.00	.00	.00	.00	.15	.00	.03	.18
21	.02	.07	.02	.00	.00	.33	.01	.00	.05	.06	.00	.59
22	.01	.39	.00	.21	.00	.02	.01	.38	.00	.52	.00	.00
23	.00	.00	.18	.10	.00	.00	.01	.00	.00	.00	.00	.00
24	.00	.58	.17	.07	.00	.00	.00	.00	.00	.00	.00	.01
25	.01	.02	.00	.00	.02	.00	.00	.30	.00	.00	.00	.01
26	.01	.04	.00	.00	.02	.00	.01	.00	.00	.00	.01	.01
27	.01	.52	.33	.00	.00	.01	.01	.00	.00	.00	.05	.00
28	.01	.16	.65	.00	.00	.35	.27	.00	.02	.00	.47	.01
29	.02	.39	.00	.00	---	.02	.01	.10	1.18	.00	.01	.01
30	.01	.00	.00	.32	---	.00	1.02	.00	.00	.22	.00	.00
31	.22	---	.00	.08	---	.00	---	.01	---	.01	.77	---
TOTAL	0.68	5.33	4.01	1.20	0.75	1.72	4.44	3.18	2.51	5.19	2.51	3.22
WTR YR 1983 TOTAL	34.74											

Table 66.--Daily-values rainfall data for Sandhill Creek near Monroeville (04198019)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											.00	1.00
2											.00	.07
3											.50	.82
4											.01	.11
5											.00	.01
6											.03	.01
7											.00	.00
8											.00	.17
9											.00	.00
10											.00	.01
11											.66	.01
12											.00	.00
13											.08	.00
14											.02	.42
15											.15	.00
16											.01	.02
17											.00	.07
18											.00	.40
19											.01	.01
20											.00	.00
21											.00	.00
22											.00	.08
23											.00	.00
24											.00	.00
25											.00	.00
26											.00	.47
27											.01	.07
28											.00	.00
29											.11	.01
30										.00	.61	.21
31										.01	.90	---
TOTAL										0.01	3.21	3.97

WTR YR 1981 TOTAL 7.19

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 66.--Daily-values rainfall data for Sandhill Creek near Monroeville (04198019)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.39	.12	.64	.00	.01	.06	.16	.00	.00	.00
2	.02	.00	.02	.00	.00	.03	.01	.00	.12	.01	.10	.15
3	.00	.00	.00	.30	.00	.00	.33	.00	.00	1.35	.00	.00
4	.01	.00	.29	.29	.38	.16	.00	.00	.00	.00	.22	.00
5	.00	.09	.02	.06	.00	.36	.00	.00	.00	.00	.00	.00
6	.47	.14	.00	.17	.00	.00	.13	.00	.18	.01	.00	.00
7	.03	.00	.26	.00	.00	.05	.01	.00	.00	.02	.00	.08
8	.00	.00	.04	.00	.00	.00	.01	.60	.00	.00	.03	.00
9	.00	.00	.11	.28	.22	.01	.07	.00	.00	.00	.00	.01
10	.00	.00	.00	.00	.00	.01	.03	.00	.10	.01	.00	.00
11	.00	.00	.00	.00	.00	.42	.06	.00	.00	.03	.00	.00
12	.00	.02	.00	.00	.00	.03	.00	.00	.00	.01	.00	.01
13	.00	.05	.00	.10	.04	.17	.00	.00	.00	.01	.00	.00
14	.00	.03	.00	.00	.00	.01	.00	.00	.00	.01	.00	.43
15	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02
16	.00	.00	.00	.14	.00	.55	.44	.00	.75	.00	.00	.00
17	.00	.00	.00	.01	.06	.00	.11	.00	.73	.00	.00	.00
18	.16	.02	.33	.00	.00	.01	.00	.00	.00	.00	.00	.12
19	.06	.85	.00	.00	.25	.09	.01	.11	.00	.82	.00	.00
20	.01	.22	.04	.00	.00	.13	.05	.61	.03	.05	.51	.00
21	.00	.03	.00	.05	.00	.00	.00	.26	.26	.00	.00	.02
22	.21	.01	.17	.00	.00	.00	.00	.45	.20	.01	.01	.86
23	.02	.02	1.34	.51	.00	.00	.00	.91	.94	.01	.01	.02
24	.03	.01	.00	.00	.40	.01	.01	.00	.00	.01	.02	.12
25	.04	.00	.00	.00	.03	.09	.00	.00	.00	.01	.09	.02
26	.24	.14	.00	.03	.00	.04	.02	.00	.00	.01	.00	.13
27	.25	.00	.05	.00	.00	.01	.00	.10	.00	.01	.00	1.11
28	.01	.00	.07	.00	.00	.21	.01	1.08	.00	.00	.00	.01
29	.00	.00	.35	.00	---	.01	.00	.00	3.45	.00	.00	.01
30	.00	.01	.00	.71	---	.44	.00	.07	.08	.00	.00	.01
31	.00	---	.00	.78	---	.40	---	.28	---	.00	.00	---
TOTAL	1.58	1.64	3.48	3.55	2.02	3.58	1.31	4.53	7.00	2.39	0.99	3.13
WTR YR 1982 TOTAL	35.20											



Table 67.--Daily-values rainfall data for Delwood Run at Valley City (04201302)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
SUMMATION VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1											.86
2											.31
3											.17
4											.11
5											.01
6											.26
7											.00
8											.01
9											.01
10											.00
11											.00
12											.00
13											.00
14											.89
15											.12
16											.00
17											.00
18											.04
19											.00
20											.05
21											.00
22											.00
23											.01
24											.02
25											.00
26											.00
27											.00
28											.10
29											.55
30											.09
31											.00
TOTAL										0.00	3.94
WTR YR 1981	TOTAL										2.33

WTR YR 1981 TOTAL 6.27

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 67.--Daily-values rainfall data for Delwood Run at Valley City (04201302)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.00	.36	.00	.80	.00	.00	.10	.10	.00	.00	.00
2	.05	.00	.00	.00	.00	.05	.01	.00	.00	.00	.01	.07
3	.15	.00	.00	.05	.00	.48	.39	.00	.00	1.15	.01	.00
4	.00	.00	.39	.43	.42	.05	.01	.00	.00	.00	1.02	.00
5	.00	.08	.01	.00	.00	.48	.00	.00	.43	.00	.00	.00
6	.61	.32	.00	.08	.00	.00	.01	.00	.14	.01	.00	.00
7	.12	.05	.23	.05	.00	.00	.02	.18	.00	.00	.00	.17
8	.00	.00	.04	.00	.00	.00	.02	.92	.00	.00	.01	.00
9	.00	.00	.48	.38	.25	.05	.08	.00	.00	.00	.00	.00
10	.00	.00	.10	.03	.05	.00	.02	.00	.02	.00	.00	.00
11	.00	.00	.05	.02	.00	.53	.01	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.22	.00	.24	.02	.00	.00	.00	.00	.00
14	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.75
15	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	.00	.01
16	.00	.00	.00	.10	.00	.69	.05	.00	.99	.00	.00	.00
17	.00	.00	.05	.00	.10	.00	.08	.00	.01	.00	.00	.00
18	.07	.03	.25	.00	.15	.00	.00	.00	.00	.00	.00	.00
19	.05	1.00	.00	.00	.10	.02	.00	.19	.03	.27	.00	.22
20	.00	.39	.00	.00	.05	.21	.10	.11	.40	.01	.44	.00
21	.00	.00	.10	.02	.00	.00	.00	.03	.01	.00	.00	.02
22	.00	.01	.32	.00	.06	.00	.00	.36	.87	.00	.00	.15
23	.35	.06	.91	.22	.00	.01	.00	1.01	.02	.00	.00	.31
24	.00	.00	.00	.00	.21	.01	.00	.00	.00	.01	.01	.30
25	.00	.00	.00	.04	.04	.09	.00	.00	.00	.01	.04	.02
26	.22	.08	.00	.00	.00	.01	.03	.01	.00	.00	.00	.30
27	.00	.00	.05	.00	.00	.01	.00	.00	.00	.00	.00	1.11
28	.05	.00	.07	.00	.00	.06	.00	.68	1.34	.00	.00	.03
29	.00	.00	.25	.00	---	.01	.00	.01	.54	.00	.00	.01
30	.00	.00	.00	1.12	---	.70	.00	.27	.01	.00	.00	.02
31	.00	---	.00	.95	---	8.00	---	.01	---	.00	.00	---
TOTAL	1.81	2.02	3.66	3.82	2.23	11.71	0.85	3.88	5.67	1.46	1.54	3.49
WTR YR 1982 TOTAL	42.14											



Table 67.--Daily-values rainfall data for Delwood Run at Valley City (04201302)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	1.17	.00	.00	.00	.00	.00	.18	.00	1.19	.01	.00
2	.01	.35	.00	.00	.45	.00	.00	1.17	.00	1.46	.00	.01
3	.01	.31	.00	.00	.20	.00	.60	.67	.09	.02	.00	.01
4	.01	.24	.06	.00	.05	.00	.29	.22	.01	.29	.02	.01
5	.01	.00	.00	.00	.00	.00	.00	.01	.48	.02	.00	.18
6	.01	.01	.35	.00	.00	.00	.00	.01	.30	.01	.00	1.22
7	.08	.00	.05	.00	.17	.00	.24	.13	.01	.01	.01	.14
8	.02	.03	.00	.00	.00	.00	.04	.14	.00	.02	.01	.00
9	.01	.01	.00	.00	.00	.22	.00	.00	.00	.01	.00	.00
10	.05	.01	.00	.00	.00	.00	.83	.01	.01	.01	.01	.00
11	.01	.28	.35	.34	.00	.82	.00	.02	.01	.02	.80	.00
12	.00	.45	.00	.00	.15	.00	.00	.02	.01	.01	.02	.00
13	.01	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.23	.20	.10	.00	.00	.01
15	.07	.00	.09	.00	.00	.00	.78	.26	.00	.00	.01	.00
16	.01	.04	1.00	.15	.00	.00	.00	.02	.00	.00	.00	.51
17	.01	.00	.00	.00	.00	.00	.03	.01	.00	.26	.00	.01
18	.00	.00	.00	.05	.00	.00	.10	.01	.17	.00	.00	.00
19	.00	.00	.49	.10	.00	.45	.12	.27	.27	.00	.01	.00
20	.07	.15	.48	.00	.00	.20	.00	.00	.01	.00	.00	.10
21	.00	.48	.00	.00	.00	.20	.01	.00	.00	.17	.01	.88
22	.00	.47	.00	.00	.00	.00	.02	.52	.00	.00	.00	.00
23	.01	.00	.35	.22	.00	.00	.02	.01	.00	.33	.00	.06
24	.02	.72	.12	.10	.00	.00	.00	.00	.00	.00	.00	.01
25	.01	.00	.00	.00	.00	.00	.01	.23	.00	.00	.01	.04
26	.01	.06	.10	.00	.00	.12	.02	.01	.00	.00	.01	.01
27	.02	.34	.12	.00	.00	.00	.01	.00	.02	.00	.73	.00
28	.02	.00	.55	.00	.00	.95	.13	.00	2.47	.00	.66	.00
29	.04	.72	.00	.00	---	.20	.20	.19	.00	.06	.01	.01
30	.00	.20	.00	.15	---	.00	1.85	.00	.67	.00	.40	.00
31	.56	---	.00	.16	---	.00	---	.14	---	.63	.73	---
TOTAL	1.09	6.04	4.11	1.27	1.02	3.16	5.53	4.47	4.64	4.52	3.46	3.21
WTR YR 1983 TOTAL	42.52											

Table 68.--Daily-values rainfall data for Fire Run at Auburn Corners (04201895)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981											
SUMMATION VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL											
WTR YR 1981	TOTAL	12.06									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 68.--Daily-values rainfall data for Fire Run at Auburn Corners (04201895)--Continued

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982  
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.00	.40	.01	.00	.00	.00	.00	.12	.00	.00	.00
2	.49	.00	.00	.00	.00	.51	.00	.00	.01	.00	.38	.46
3	.00	.00	.00	.01	.30	.00	.32	.00	.00	.91	.01	.01
4	.00	.00	.28	.35	.00	.52	.00	.00	.00	.01	.04	.00
5	.00	.59	.01	.00	.02	.00	.00	.00	.95	.00	.00	.00
6	.50	.21	.00	.12	.00	.00	.00	.00	.15	.00	.00	.00
7	.18	.00	.08	.01	.00	.04	.00	.25	.00	.00	.00	.00
8	.00	.00	.56	.02	.00	.04	.01	.61	.00	.00	.06	.00
9	.00	.00	.24	.19	.28	.02	.01	.00	.00	.01	.03	.00
10	.00	.00	.35	.07	.00	.06	.00	.01	.00	.01	.00	.00
11	.00	.00	.02	.07	.00	.29	.00	.00	.00	.03	.00	.00
12	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00
13	.00	.00	.00	.15	.02	.24	.07	.01	.00	.00	.00	.00
14	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.46
15	.00	.00	.00	.00	.06	.00	.01	.00	.87	.01	.00	.00
16	.00	.00	.02	.29	.00	.62	.06	.00	1.06	.00	.00	.00
17	.00	.01	.20	.02	.16	.00	.24	.00	.03	.00	.00	.01
18	.18	.00	.19	.01	.15	.01	.00	.00	.00	.08	.00	.32
19	.47	.73	.22	.00	.19	.00	.01	.11	.05	.49	.00	.00
20	.00	.41	.10	.00	.00	.10	.14	.01	.36	.03	.41	.03
21	.00	.00	.15	.00	.00	.00	.00	.00	.02	.00	.14	.03
22	.20	.00	.45	.01	.00	.00	.00	.50	.12	.00	.01	.09
23	.33	.10	.18	.94	.00	.01	.00	.99	.00	.00	.00	.34
24	.00	.03	.00	.01	.21	.01	.00	.01	.00	.00	.02	.23
25	.00	.00	.00	.05	.00	.01	.00	.00	.00	.00	.05	.09
26	.35	.09	.00	.00	.00	.00	.01	.00	.00	.06	.00	.26
27	.02	.01	.13	.00	.00	.00	.00	.00	.00	.03	.00	.98
28	.00	.00	.16	.00	.00	.03	.00	1.10	.22	.15	.00	.05
29	.00	.00	.02	.00	---	.01	.00	.01	1.42	.00	.00	.01
30	.00	.00	.00	1.09	---	.03	.00	.22	.01	.00	.00	.01
31	.00	---	.15	1.71	---	.71	---	.01	---	.00	.00	---
TOTAL	3.31	2.18	3.91	5.14	1.40	3.27	0.88	3.84	5.39	1.83	1.15	3.42

WTR YR 1982 TOTAL 35.72

Table 68.--Daily-values rainfall data for Fire Run at Auburn Corners (04201895)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	SUMMATION VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.89	.02	.00	.00	.00	.00	.11	.01	.11	.01	.00
2	.01	.21	.00	.00	.67	.00	.24	.94	.00	.43	.00	.01
3	.01	.50	.00	.00	.11	.00	.14	.30	.17	.02	.01	.01
4	.00	.43	.13	.00	.14	.00	.01	.14	.01	.26	.22	.00
5	.01	.00	.44	.00	.00	.00	.00	.01	.52	.02	.04	.10
6	.01	.01	.05	.00	.00	.04	.06	.01	.15	.00	.01	.72
7	.53	.00	.00	.00	.22	.00	.22	.03	.01	.02	.01	.22
8	.02	.00	.00	.00	.00	.43	.00	.20	.00	.02	.00	.01
9	.01	.00	.04	.00	.00	.50	.95	.01	.01	.02	.00	.01
10	.05	.01	.26	.69	.00	.87	.12	.00	.01	.01	.05	.00
11	.05	.49	.01	.06	.08	.47	.08	.01	.02	.03	.65	.00
12	.00	.48	.01	.05	.00	.00	.00	.01	.01	.00	.01	.01
13	.00	.00	.00	.00	.00	.00	.05	.02	.01	.01	.00	.00
14	.04	.01	.00	.00	.00	.00	1.01	.13	.00	.00	.00	.00
15	.16	.02	.87	.17	.00	.00	.01	.30	.03	.00	.00	.00
16	.01	.06	.13	.09	.02	.00	.00	.01	.01	.01	.00	.44
17	.00	.00	.00	.05	.01	.00	.20	.01	.00	.00	.01	.00
18	.00	.00	.11	.11	.00	.22	.02	.01	1.11	.00	.00	.00
19	.00	.00	.74	.01	.00	.56	.03	.56	.12	.01	.00	.00
20	.14	.22	.17	.00	.00	.01	.01	.05	.01	.01	.00	.14
21	.00	.57	.14	.00	.00	.29	.01	.00	.00	.45	.00	.75
22	.01	.06	.10	.08	.00	.11	.02	.50	.01	.01	.00	.00
23	.01	.66	.34	.07	.02	.00	.02	.21	.01	1.31	.00	.32
24	.02	.43	.00	.02	.01	.00	.01	.00	.00	.01	.00	.01
25	.01	.00	.00	.01	.00	.00	.01	.35	.01	.00	.00	.01
26	.10	.34	.08	.02	.00	.00	.01	.00	.01	.00	.00	.01
27	.01	.00	.66	.00	.00	.64	.01	.00	.00	.00	.00	.01
28	.01	.60	.00	.00	.00	.26	.05	.01	.00	.00	.01	.00
29	.05	.03	.00	.00	.00	.00	.26	.21	.01	.01	.00	.00
30	.01	.02	.00	.31	.00	.00	.91	.01	.24	.00	.51	.00
31	.53	.00	.00	.00	.00	.00	.00	.00	.00	.38	.33	.00
TOTAL	1.82	6.04	4.30	1.74	1.28	4.40	4.46	4.15	6.71	3.16	1.88	2.78
WTR YR 1983 TOTAL	42.72											

Table 69.--Daily-values rainfall data for Hoskins Creek at Harts Grove (04210100)

RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
SUMMATION VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										.00	.00	.52
2										.00	.00	.41
3										.00	.15	.57
4										.00	.02	.01
5										.16	.00	.24
6										.00	.00	.02
7										.00	.77	.01
8										.00	1.10	.24
9										.00	.01	.00
10										.30	.12	.00
11										.00	.17	.01
12										.00	.00	.00
13										.02	.00	.30
14										.00	.00	.35
15										.00	1.00	.00
16										.02	.13	.05
17										.00	.00	.01
18										.00	.00	.00
19										.00	.00	.28
20										.52	.01	.00
21										.50	.00	.01
22										1.20	.00	.08
23										.00	.00	.00
24										.00	.00	.01
25										.00	.00	.00
26										.44	.00	.01
27										.05	.00	.00
28										.38	.21	.00
29										.89	.00	.00
30										.00	.08	.04
31										.00	.01	---
TOTAL										4.48	3.78	3.17

WTR YR 1981 TOTAL 11.43

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 69.--Daily-values rainfall data for Hoskins Creek at Hartsgrove (04210100)--Continued

[illegible]

Table 69.--Daily-values rainfall data for Hoskins Creek at Harts Grove (04210100)--Continued

DAY	RAINFALL, ACCUMULATED (INCHES), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.55	.00	.00	.00	.00	.00	.22	.00	.02	.01	.00
2	.00	.16	.02	.00	.13	.00	.00	.58	.00	.02	.01	.01
3	.01	.49	.00	.00	.03	.00	.04	.36	.33	.00	.00	.00
4	.00	.48	.12	.00	.25	.00	.04	.07	.01	.34	.21	.00
5	.00	.00	.02	.00	.11	.00	.04	.01	.14	.01	.00	.10
6	.01	.00	.35	.02	.00	.00	.00	.01	.43	.00	.00	1.44
7	.34	.00	.12	.05	.18	.03	.03	.03	.01	.00	.00	.10
8	.01	.00	.00	.03	.06	.00	.03	.18	.00	.00	.00	.00
9	.00	.04	.14	.00	.03	.43	.00	.00	.01	.00	.00	.00
10	.00	.02	.11	.00	.00	.31	.04	.01	.00	.00	.03	.00
11	.32	.62	.56	.12	.00	.41	.06	.00	.00	.00	1.17	.00
12	.00	.44	.00	.11	.02	.04	.00	.00	.00	.00	.04	.00
13	.01	.23	.00	.02	.00	.00	.00	.01	.00	.00	.00	.00
14	.43	.04	.00	.00	.00	.00	.08	.20	.00	.00	.00	.02
15	.45	.01	.01	.06	.00	.00	.90	.20	.00	.00	.00	.00
16	.00	.09	1.10	.27	.00	.00	.06	.01	.17	.00	.01	.39
17	.01	.00	.07	.02	.00	.00	.04	.00	.01	.00	.06	.00
18	.00	.00	.00	.08	.00	.00	.12	.00	.00	.00	.00	.01
19	.00	.00	.69	.06	.01	.14	.11	.46	.12	.00	.01	.00
20	.14	.03	.19	.02	.00	.08	.00	.01	.01	.00	.00	.26
21	.01	.96	.22	.00	.00	.08	.00	.00	.00	.05	.00	1.03
22	.02	.27	.02	.00	.00	.59	.01	.76	.00	.00	.00	.69
23	.00	.02	.18	.03	.02	.08	.00	.05	.00	.24	.00	1.12
24	.02	.67	.02	.06	.00	.00	.02	.01	.00	.14	.00	.00
25	.00	.00	.05	.03	.06	.00	.00	.34	.00	.01	.00	.01
26	.00	.03	.06	.02	.00	.00	.01	.00	.00	.00	.00	.01
27	.00	.40	.00	.03	.00	.05	.02	.01	.21	.00	.00	.01
28	.01	.14	.19	.00	.00	.03	.18	.00	1.95	.00	.00	.01
29	.01	.25	.00	.00	---	.06	.40	.14	.02	.61	.00	.00
30	.00	.03	.11	.09	---	.00	.81	.02	.40	.01	.41	.02
31	.72	---	.00	.05	---	.00	---	.05	---	.36	.60	---
TOTAL	2.53	5.97	4.35	1.17	0.90	2.33	3.04	3.74	3.82	1.81	2.56	5.23
WTR YR 1983 TOTAL	37.45											