



LOW-FLOW CHARACTERISTICS OF WISCONSIN STREAMS AT SEWAGE-TREATMENT PLANTS

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ABSTRACT

Low-flow characteristics of Wisconsin streams at 415 sewage-treatment plants are presented in this report. The low-flow characteristics presented are the annual minimum 7-day mean flow that occurs on the average of once in 2 years ($Q_{7,2}$) and the annual minimum 7-day mean flow that occurs on the average of once in 10 years ($Q_{7,10}$).

The low-flow characteristics at most sewage-treatment plants were determined by correlating base-flow measurements at the sewage-treatment plants to the concurrent daily mean flow at continuous-record gaging stations in the area. The $Q_{7,2}$ and $Q_{7,10}$ discharges determined by a frequency analysis at the continuous-record gaging stations were used to estimate the $Q_{7,2}$ and $Q_{7,10}$ at the sewage-treatment plants. For some sewage-treatment plants the low-flow characteristics were also determined by frequency analysis at nearby continuous-record gaging stations or correlation analysis at nearby low-flow, partial-record stations.

The accuracy of the estimated low-flow characteristics is evaluated according to the type and amount of data available used to determine the low-flow characteristics. The accuracy determined by the standard error of estimate for the 10-year low flow (SE_{10}) ranged from 18 percent at continuous-record gaging stations to 70 percent when only three base-flow measurements were available.

The SE_{10} of 70 percent is larger than anticipated when the project was initiated. This was the result of extremely poor base-flow conditions during the 2-year data-collection period.

INTRODUCTION

The purpose of this report is to describe the low-flow characteristics of Wisconsin streams at sewage-treatment plants. The study was done in cooperation with the Wisconsin Department of Natural Resources. This information is needed by the Wisconsin Department of Natural Resources to implement water-quality standards for all surface waters of the State. The implementation requires that the sewage effluent from all waste sources has to be evaluated in relation to the low-flow characteristics of the

receiving stream. Water-quality standards in Wisconsin are based on the annual minimum 7-day mean flow that occurs on the average of once in 10 years ($Q_{7,10}$). This report contains estimates of the $Q_{7,10}$ along with estimates of the minimum 7-day mean flow that occurs on the average of once in 2 years ($Q_{7,2}$) at 415 sites in Wisconsin.

For the convenience of readers who may want to use metric units, the metric equivalents are given in parentheses following the English units. Data presented in the tables may be converted by using the following conversion factors:

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
Miles (mi)	1.609	Kilometres (km)
Feet (ft)	.3048	Metres (m)
Square miles (mi^2)	2.59	Square kilometres (km^2)
Cubic feet per second (ft^3/s)	.028317	Cubic metres per second (m^3/s)

LOW-FLOW CHARACTERISTICS

The estimated low-flow characteristics at 415 sewage-treatment plants appear in tables 1-30. Information included in the tables for each site are project site number; site location; drainage area; measured discharge; and accuracy level of the estimated low-flow characteristics. The site number is based on the number assigned by the Wisconsin Department of Natural Resources (DNR) in reports on pollution-investigation surveys for each basin. The number used in the DNR reports has been modified by the addition of a letter before each number to help identify the basin. The Department of Natural Resources could change the site number when the reports are updated; therefore, the year of the report using these numbers is shown in each table.

The low-flow characteristics in tables 1-30 supersede the preliminary estimates of April 1973, which were based on one discharge measurement at each site.

At sites where the stream was dry or where only ponded water was present, upstream of the sewage-treatment plant, alternate measuring sites were selected. Measurements were obtained at a downstream location if it appeared that substantial natural inflow had entered the stream. If substantial inflow did not enter the stream before a flowing stream was reached, measurements were obtained on the flowing stream upstream from the dry streambed. When the sewage-treatment plant discharged effluent into a ponded stream or into a dry streambed, measurements for both the sewage-treatment-plant site and the alternate site were included in the table.

ANALYTICAL TECHNIQUES

The low-flow characteristics in tables 1-30 were determined by three methods of analysis. These methods depended on the type of data available at or near the sewage-treatment plant. The 3 basic types of data available are: (1) continuous record of daily streamflow (continuous-record gaging stations); (2) 8 to 12 base-flow discharge measurements (low-flow, partial-record stations); (3) 3 or 4 base-flow discharge measurements (stations established for the project). A description of the analysis for the types of stations follows.

Gaging Stations

When a sewage-treatment plant was located close to a continuous-record gaging station the low-flow characteristics determined at the gaging station were used at the sewage-treatment plants.

The low-flow characteristics at gaging stations were determined by a frequency analysis of the recorded 7-day annual minimum flows. A log Pearson type III probability distribution was used to compute the frequency curves which were then compared to graphical plot of the 7-day annual minimum flows (Riggs, 1972). If the two curves did not agree, a graphical interpretation was made to determine $Q_{7,2}$ and $Q_{7,10}$ discharge. All the available data at the gaging station through the 1972 water year were used for this analysis.

Low-Flow, Partial-Record Stations

When a sewage-treatment plant was located near a low-flow, partial-record station the low-flow characteristics determined for the partial-record station were used at the sewage-treatment plant. The low-flow characteristics at the sewage-treatment plant were determined from a relation line established by correlating 8 to 12 base-flow discharge measurements at these stations to the concurrent discharge at continuous-record gaging stations in the area (Gebert, 1971). The $Q_{7,2}$ and $Q_{7,10}$ at the continuous-record gaging stations were then transferred through the relation line to estimate $Q_{7,2}$ and $Q_{7,10}$ for the partial-record station.

Project Stations

Most of the estimated low-flow characteristics contained in this report are based on three or more base-flow measurements at each sewage-treatment plant. The base-flow measurements at these sites were correlated with concurrent daily mean flow at continuous-record gaging stations in the area. The slope of the relation was compared to the established relation line at nearby low-flow, partial-record stations and other sewage-treatment-plant outfall sites for uniformity. If the factors that largely influence low flow are uniform in the area, the relation lines should have the same slope. The slope of relation line was adjusted to agree more closely to a regional

slope, defined by the low-flow, partial-record stations, when the points defined by the three discharge measurements had a fairly large scatter.

The $Q_{7,2}$ and $Q_{7,10}$ discharges, determined by a frequency analysis at the continuous-record gaging stations were then transferred through the relation line to estimate the $Q_{7,2}$ and $Q_{7,10}$ at the sewage-treatment plants. Figure 1 illustrates this method of correlation. The frequency analyses at the gaging stations included the entire period of record at each station through the 1972 water year.

At some sites the relationships were not adequate to determine the low-flow characteristics for several reasons. The major cause was extremely poor base-flow conditions during most of the 2-year data-collection period. Numerous rains created probable nonuniform, base-flow recession patterns in various basins. A comparison of the long-term mean-monthly discharge with the monthly mean discharge during the 1972 and 1973 data-collection period, at 12 gaging stations, showed that discharge was considerably greater than normal. The May through October discharge was 68 percent greater than normal during 1972 and 86 percent greater than normal during 1973. The difference in discharge is illustrated in figure 2 for the Fox River at Wilnot and the Jump River at Sheldon gaging stations. The discharge at the Fox River had the greatest departure from normal for the 12 stations (181 percent), while the discharge at Jump River was the least departure from normal (18 percent).

Another reason for the poor definition of the relation line is that three measurements are not adequate in some basins. This is generally true in areas of low base flow and reflects the large differences in geologic and evapotranspiration characteristics in the basin. In these areas, additional measurements would be required to acquire the same degree of accuracy defined in basins with consistent characteristics.

ACCURACY

The $Q_{7,2}$ and $Q_{7,10}$ low-flow characteristics in tables 1-30 are estimates of flow expected in the future. The estimates are based on data that was collected at each site and analyzed by several methods. Each estimate has an error associated with it, dependent on the amount and kind of data and on the analytical method. The two major sources of error in the estimates are the time-sampling error in collecting the data and the error in the analytical method.

The accuracy associated with different methods used to develop the low-flow estimates is shown in table 31. The accuracy is determined by the standard error of estimate for the 10-year low-flow event (SE_{10}). The estimated low-flow characteristics are within the SE_{10} 67 percent of the time. An explanation of how the accuracy was determined for each method follows.

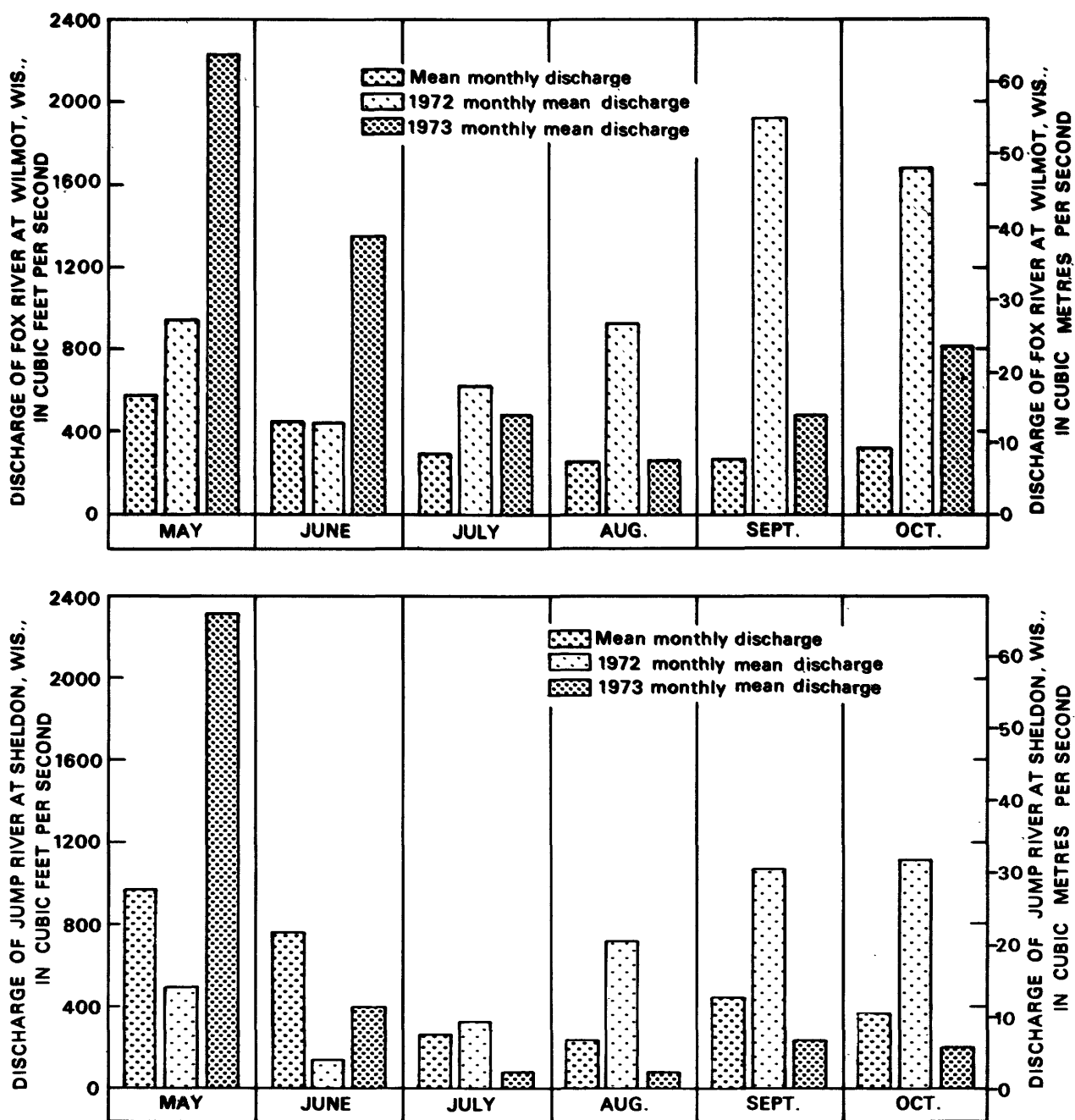


Figure 2.--Recorded discharges at two gaging stations, illustrating greater than normal discharge during data-collection period.

Gaging Stations

The accuracy for low-flow characteristics determined from recorded discharge at continuous-record gaging stations was determined according to Hardison (1969). By analyzing all the gaging station records in Wisconsin, with the assumption that 10 years of record were available at each site, a SE_{10} of 18 percent was determined. This is indicative of the relative accuracy level associated with sewage-treatment plants that utilized gaging station data for definition of the low-flow characteristics. An accuracy level indicated by the letter "a" appears in table 1-30 following the low-flow characteristics that have this degree of accuracy.

Low-Flow, Partial-Record Stations

The accuracy of low-flow characteristics at low-flow, partial-record stations can be appraised by a method outlined by Hardison (1972). Using this procedure an average SE_{10} of 29 percent was determined for 265 low-flow, partial-record stations. This SE_{10} is assumed to be typical of the accuracy for sewage-treatment plants where the low-flow characteristics were determined by use of low-flow, partial-record station data. Low-flow characteristics in tables 1-30 determined by this method have an accuracy level indicated by the letter "b".

Project Stations

The accuracy of the low-flow characteristics at sewage-treatment plants at stations that were established for this project can't be appraised directly. Therefore, the data collected at low-flow, partial-record stations were analyzed to approximate the accuracy associated with the low-flow characteristics based on only three base-flow measurements.

Three random base-flow measurements were selected from the 8 to 12 measurements that are available at 265 low-flow, partial-record stations. Estimates of the low-flow characteristics were determined from these three measurements using the same procedure used for sewage-treatment plants. The estimated flow characteristics then were plotted against the low-flow estimates based on 8 to 12 measurements. From this relationship the SE between the two estimates was determined. The overall SE_{10} then can be approximated by taking the square root of the sum of the squares of SE of the above relationship and the SE_{10} determined for low-flow, partial-record stations. This resulted in a SE_{10} of 45 percent. Unfortunately poor base-flow measuring conditions during the 1972-73 period didn't define relationships that would provide estimates with that degree of accuracy.

Based on a similar analysis as above, 56 low-flow, partial-record stations in northern Wisconsin have a SE_{10} of about 54 percent. These sites also were measured during the same period when streams at sewage-treatment plants were being measured. Using only these measurements, the 56 low-flow, partial-record stations had a SE_{10} of about 77 percent.

The SE_{10} based on three discharge measurements was higher for the 56 low-flow, partial-record stations than the 265 stations (54 percent compared to 45 percent), therefore the overall or average SE_{10} at all the sewage-treatment plants probably would be about 70 percent. Low-flow characteristics in tables 1-30 determined by this method have an accuracy level indicated by the letter "c".

The accuracy of the low-flow characteristics also differs for areas of the State. To illustrate this variation in accuracy, values of SE_{10} are listed for major Wisconsin basins in table 32. These values of SE_{10} were determined at low-flow, partial-record stations and were based on 8 to 12 base-flow measurements during the 1961-73 period. These values at low-flow, partial-record stations probably are considerably lower than the SE_{10} associated with low-flow characteristics at sewage-treatment plants. However, they can be used as a guide to evaluate the relative accuracy of low-flow estimates at sewage-treatment plants for different basins. For example, the SE_{10} at low-flow, partial-record stations in the Bad Axe River basin is 10 percent. This is considerably lower than the average SE_{10} of 29 percent for all river basins in the State. Therefore the SE_{10} for sewage-treatment plants in the Bad Axe River basin probably is considerably less than the SE_{10} of 70 percent determined as the average for all river basins.

PLANS FOR THE FUTURE

This study is a continuing project and at least three more base-flow discharge measurements are planned at each site. These additional discharge measurements will be made when streamflow conditions are much closer to the $Q_{7.2}$ discharge. The collection of additional data will require that the relationship used to determine the low-flow estimates be reviewed and, if necessary, revised. The increased number of measurements, along with the greater range in discharge measured at each site, should improve the accuracy of the estimates (lower SE_{10}) and provide more uniform results throughout the State.

TABLE 1.--Bad Axe River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
B9	Coon Creek	SW ¹ / ₄ NE ¹ / ₄ sec.7, T.14 N., R.5 W., Vernon County, 700 feet upstream from U.S. Highway 14 and 61, at Coon Valley, Wis.	78.6	Aug. 12, 1970 June 20, 1972 June 28, 1973 Sept. 11, 1973	34.2 40.9 75.8 62.6	28	25		a
B12	North Fork Bad Axe River	NW ¹ / ₄ NW ¹ / ₄ sec.33, T.14 N., R.4 W., Vernon County, at sewage treatment plant at west edge of Westby, Wis.	.27						
	North Fork Bad Axe River	SW ¹ / ₄ SW ¹ / ₄ sec.29, T.14 N., R.4 W., Vernon County, at bridge on country road, and 1.6 miles west of Westby, Wis.	1.77	June 20, 1972 June 28, 1973 Sept. 11, 1973	(2)0 .13 (2)0	0	0		c
B13	Springville Branch	NW ¹ / ₄ NE ¹ / ₄ sec.31, T.13 N., R.4 W., Vernon County, at end of town road, and 0.5 mile north of Viroqua, Wis.	1.15	June 20, 1972 June 28, 1973 Sept. 13, 1973	.64 .71 .78	0.54	0.50		c
B14	Springville Branch tributary	NW ¹ / ₄ NW ¹ / ₄ sec.29, T.13 N., R.4 W., Vernon County, at sewage treatment plant for Vernon County Home, and 1.6 miles north of Viroqua, Wis.	0.31	June 20, 1972	(2)0	0	0		c
	Springville Branch	SW ¹ / ₄ SE ¹ / ₄ sec.23, T.13 N., R.5 W., Vernon County, at bridge on County Trunk B, in Springville, Wis.	8.93	June 20, 1972 June 28, 1973 Sept. 13, 1973	2.57 6.02 5.61	1.4	1.1		c
B20A	Sugar Creek	NE ¹ / ₄ SE ¹ / ₄ sec.16, T.10 N., R.6 W., Crawford County, at bridge on State Highway 35, 1.2 miles southeast of Ferryville, Wis.	24.6	Aug. 11, 1970 June 20, 1972 June 28, 1973 Sept. 13, 1973	8.40 10.5 17.8 15.2	7.8	6.4		c

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

TABLE 2.--Baraboo-Lemonweir River basin sewage-treatment-plant locations and low-flow characteristics.

(1) DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
BL3	South Fork Lemonweir River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.18 N., R.1 W., Monroe County, at bridge on town road at Tomah, Wis.	35.3	June 14, 1973 July 26, 1973 Oct. 24, 1973	13.1 6.47 12.5	4.3	3.2	c
BL4	Lemonweir River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.16 N., R.3 E., Juneau County, near center of span on downstream side of bridge on State Highway 80 in New Lisbon, 200 feet downstream from recreation dam and 1.0 mile upstream from Webster Creek.	500a			76	56	a
BL6	Lemonweir River tributary	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.17 N., R.2 E., Juneau County, at bridge on town road, 2.5 miles northeast of Camp Williams, Wis.	14.3	June 14, 1973 July 25, 1973 Oct. 24, 1973	13.7 6.75 6.90	3.5	2.7	c
BL9	Baraboo River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.15 N., R.1 E., Monroe County, at bridge on State Highway 71, at Kendall, Wis.	15.8	June 13, 1973 July 25, 1973 Oct. 24, 1973	10.7 7.96 6.38	2.4	1.7	c
BL10	Baraboo River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.15 N., R.2 E., Juneau County, at bridge on County Trunk O, at Elroy, Wis.	59.1	June 14, 1973 Oct. 24, 1973	37.9 27.0	(3)	(3)	c
BL13	Baraboo River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.14 N., R.2 E., Juneau County, at bridge on town road, at Wonewoc, Wis.	174	July 25, 1973	96.8	(3)	(3)	c
BL19	South Branch Baraboo River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.14 N., R.1 E., Vernon County, at bridge on County Trunk FF, at Hillsboro, Wis.	39.1	Dec. 8, 1970 June 14, 1973 July 25, 1973 Oct. 24, 1973	10.6 31.3 26.1 22.7	4.5	2.9	c

TABLE 2.--Baraboo-Lemonweir River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
BL22	Narrows Creek	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.11 N., R.4 E., Sauk County, at bridge on State Highway 23 and 154, and 0.2 mile north of Loganville, Wis.	40.0	Aug. 20, 1969 July 9, 1970 Aug. 18, 1970 June 13, 1973 July 24, 1973 Oct. 25, 1973	(4) 6.49 6.56 4.97 23.2 14.8 13.4	3.5	2.6	b	
BL23	Narrows Creek tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.12 N., R.4 E., Sauk County, at bridge on State Highway 154 and 2.8 miles north- east of Loganville, Wis.	4.60	June 13, 1973 July 24, 1973 Oct. 25, 1973	2.19 1.54 1.72	0.74	0.53	c	
BL24	Wisconsin River tributary	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.11 N., R.7 E., Sauk County, at bridge on State Highway 113, 3.0 miles northwest of Merrimac, Wis.	3.34	June 13, 1973 July 24, 1973 Oct. 25, 1973	3.50 4.30 2.17	0.32	0.18	c	
BL25	Baraboo River tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.11 N., R.6 E., Sauk County, at bridge on town road, 1.8 miles south of Baraboo, Wis.	2.06	June 13, 1973	(2) 0	0	0	c	
BL27	Baraboo River tributary	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.11 N., R.6 E., Sauk County, at culvert on town road, at Baraboo, Wis.	3.26	June 13, 1973 July 24, 1973 Oct. 25, 1973	0.37 0.16 0.41	(3)	(3)	c	
	Allen Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.17 N., R.1 E., Monroe County, at sewage treatment plant, 1.0 mile east of Oakdale, Wis.	2.65						
	Allen Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.17 N., R.1 E., Monroe County, at bridge on town road, 1.9 miles northeast of Oakdale, Wis.	7.41	June 14, 1973 July 25, 1973 Oct. 24, 1973	6.00 3.43 4.34	2.6	2.2	c	

(1) Based on 1965 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

TABLE 3.--Black River basin sewage-treatment-plant locations and low-flow characteristics.

(1) DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
BK2	Black River	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.31 N., R.1 E., Taylor County, at sewage treatment plant at south city limits of Medford, Wis.	44.0	June 20, 1973 Aug. 7, 1973 Oct. 16, 1973	12.2 12.3 16.4	2.2	0.49	c
BK5	Black River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.24 N., R.2 W., Clark County, on right bank at downstream side of bridge on U.S. Highway 10 in Neillsville, 1.0 mile downstream from O'Neill Creek.	756			23	6.4	a
BK10	North Fork Poplar River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.29 N., R.1 E., Clark County, at sewage treatment plant at Dorchester, Wis.	2.37	June 20, 1973 Aug. 7, 1973 Oct. 16, 1973	0.08 0.04 0.01	0.01	0.01	c
BK11	North Fork Poplar River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.28 N., R.1 W., Clark County, at bridge on State Highway 29, 2.1 miles east of Owen, Wis.	55.6	Oct. 24, 1968 Aug. 27, 1969 June 20, 1973 Aug. 8, 1973 Oct. 16, 1973	6.31 0.62 8.02 9.21 2.61	0.43	0.07	c
BK12	Poplar River	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.28 N., R.2 W., Clark County, at sewage treatment plant at Owen, Wis.	145	June 20, 1973 Aug. 7, 1973 Oct. 16, 1973	22.3 15.7 5.07	3.2	0.98	c
BK15	North Fork Poplar River tributary	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.29 N., R.1 W., Clark County, at country road bridge, and 0.5 mile northwest of Curtiss, Wis.	0.66	June 20, 1973 Aug. 7, 1973 Oct. 6, 1973	(2)0 (2)0 (2)0	0	0	c
BK21	Rock Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.26 N., R.2 W., Clark County, at bridge on State Highway 73, 0.5 mile south of Greenwood, Wis.	78.4	Oct. 25, 1968 Aug. 28, 1969 Aug. 11, 1970 Aug. 8, 1972 June 20, 1973 Aug. 8, 1973 Oct. 16, 1973	7.38 1.74 1.19 24.0 13.6 10.4 4.67	0.90	0.18	c

TABLE 3.--Black River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
BK24	Bear Creek	SW ¹ / ₄ sec.10, T.26 N., R.1 W., Clark County, at bridge on County Trunk K, upstream of sewage treat- ment plant at Loyal, Wis.	2.97	Aug. 8, 1972 June 20, 1973 Aug. 8, 1973 Oct. 16, 1973	0.95 0.37 3.36 0.12	0.02	0.01	c	
BK29	South Branch O'Neill Creek	NW ¹ / ₄ sec.2, T.24 N., R.1 W., Clark County, at sewage treatment plant, 0.2 mile downstream of County Trunk K bridge at Granton, Wis.	16.9	Aug. 7, 1972 June 20, 1973 Aug. 8, 1973 Oct. 16, 1973	1.61 2.70 3.80 1.37	0.40	0.13	c	
BK34	Halls Creek	SE ¹ / ₄ NW ¹ / ₄ sec.26, T.23 N., R.4 W., Jackson County, at sewage treatment plant and 0.3 mile downstream of State Highway 12 bridge at Merrilan, Wis.	46.3	Aug. 7, 1972 June 20, 1973 Aug. 8, 1973 Oct. 15, 1973	21.2 44.3 97.3 27.8	11	7.5	c	
BK35	South Fork Halls Creek	SE ¹ / ₄ SW ¹ / ₄ sec.30, T.22 N., R.4 W., Jackson County, at bridge on County Trunk F and 0.1 mile above sewage treatment plant at Alma Center, Wis.	6.16	Aug. 7, 1972 June 20, 1973 Aug. 8, 1973 Oct. 15, 1973	3.56 7.65 18.7 5.55	2.0	1.5	c	
BK38	Douglas Creek	SW ¹ / ₄ sec.9, T.19 N., R.5 W., Jackson County, at bridge on County Trunk E, just upstream of sewage treatment plant at Melrose, Wis.	22.9	Aug. 12, 1970 Aug. 9, 1972 June 21, 1973 Aug. 9, 1973 Oct. 15, 1973	9.01 12.4 20.1 24.0 18.5	6.4	4.5	c	
BK40	Beaver Creek	SW ¹ / ₄ sec.31, T.20 N., R.7 W., Trempealeau County, at bridge on County Trunk C, 0.3 mile upstream of confluence with South Fork Beaver Creek, at Ettrick, Wis.	51.0	Aug. 10, 1970 Aug. 21, 1970 Aug. 4, 1972 Aug. 9, 1973 Oct. 15, 1973	17.4 17.6 12.5 93.9 39.4	12	8.4	c	
BK41	Beaver Creek	SW ¹ / ₄ NE ¹ / ₄ sec.32, T.19 N., R.8 W., Trempealeau County, at sewage treat- ment plant, about 0.4 mile upstream of State Highway 54 bridge at Galesville, Wis.	147	Aug. 9, 1972 June 21, 1973 Aug. 9, 1973 Oct. 15, 1973	72.4 107 227 92.4	36	26	c	

TABLE 3.--Black River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
BK44	Halfway Creek	NW ¹ ₄ SE ¹ ₄ sec. 7, T. 17 N., R. 7 W., La Crosse County, at sewage treat- ment plant, 0.4 mile downstream of County Trunk DH, in Holmen, Wis.	31.1	Aug. 9, 1972 June 21, 1973 Aug. 9, 1973 Oct. 15, 1973	7.31 14.4 24.0 18.8	3.6	2.3	c

(1) Based on 1969 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

TABLE 4.--Lower Chippewa River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
						(3)	(3)	(3)	
LC4	Isabelle Creek	SW ¹ / ₄ SE ¹ / ₄ sec.17, T.26 N., R.17 W., Pierce County, just upstream from creamery outfall, at Ellsworth, Wis.	1.53	June 29, 1973	0.08				
	Isabelle Creek	NE ¹ / ₄ NE ¹ / ₄ sec.20, T.26 N., R.17 W., Pierce County, at sewage treatment plant, 1.2 miles east of Ellsworth, Wis.	2.81	June 26, 1972 Aug. 16, 1972 June 29, 1973 Aug. 7, 1973	1.38 0.22 1.41 1.06	0.08	0.04		c
LC6	Rush River tributary	NW ¹ / ₄ NW ¹ / ₄ sec.36, T.29 N., R.17 W., St. Croix County, at bridge on country road and 1.1 miles south- west of Baldwin, Wis.	4.30	June 27, 1972 Aug. 16, 1972 June 29, 1973 Aug. 8, 1973	0.46 0.17 0.51 0.58	0.09	0.07		c
LC12	Chippewa River	SE ¹ / ₄ NE ¹ / ₄ sec.12, T.28 N., R.9 W., Chippewa County, on right bank at Chippewa Falls, 1.0 mile downstream from Duncan Creek.	5670		1400 790				a
LC16	Chippewa River	SW ¹ / ₄ sec.21, T.25 N., R.13 W., Pepin County, on left bank at Durand, 75 feet downstream from U.S. Highway 10 bridge, and 9.5 miles downstream from Red Cedar River.	9010		2900 2100				a
LC23	Yellow River	SW ¹ / ₄ NW ¹ / ₄ sec.24, T.31 N., R.4 W., Taylor County, just upstream from sewage lagoon, and 0.8 mile south- west of Gilman, Wis.	193	June 28, 1972 Aug. 15, 1972 June 26, 1973 Aug. 9, 1973	7.33 110 23.6 16.1	2.9	0.93		c
LC24	Yellow River	SE ¹ / ₄ SW ¹ / ₄ sec.31, T.29 N., R.6 W., Chippewa County, 0.1 mile north of State Highway 29 and 0.7 mile west of junction of State Highways 27 and 29 at Cadott, Wis.	351	June 27, 1972 Aug. 14, 1972 June 26, 1973 Aug. 8, 1973	20.1 121 56.7 29.4	11	5.2		c

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7.2}	Q _{7.10}	(ft ³ /s)	
LC28	Duncan Creek	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.31 N., R.10 W., Chippewa County, at sewage treat- ment plant, at New Auburn, Wis.	0.49						
	Duncan Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.31 N., R.9 W., Chippewa County, at bridge on County Trunk AA, and 3.0 miles southeast of New Auburn, Wis.	13.1	June 28, 1972	3.61	(3)	(3)		c
				Aug. 15, 1972	1.80				
	Duncan Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.30 N., R.9 W., Chippewa County, on left bank 0.3 mile below Bloomer dam at Bloomer, Wis.	49.2	June 27, 1973	1.66				
				Aug. 9, 1973	4.53				
LC30	Duncan Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.30 N., R.9 W., Chippewa County, on left bank 0.3 mile below Bloomer dam at Bloomer, Wis.	49.2	Oct. 25, 1972	(4) 50.4	10.5	6.7		a
	Duncan Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.9, T.30 N., R.9 W., Chippewa County, at sewage treat- ment plant, at Bloomer, Wis.	52.8						
LC38	North Fork Eau Claire River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.29 N., R.4 W., Clark County, at bridge on State Highway 29 and 2.8 miles west of Thorpe, Wis.		June 26, 1973	4.53	(3)	(3)		
	North Fork Eau Claire River tributary	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.29 N., R.3 W., Clark County, at bridge on County Trunk M, at Thorpe, Wis.	2.12	June 28, 1972	(5) 0.48	0	0		c
				Aug. 15, 1972	0				
LC40	Wolf River	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.29 N., R.5 W., Chippewa County, at sewage treat- ment plant, at Stanley, Wis.	27.6	Aug. 8, 1973	1.30				
				June 28, 1972	1.96	1.2	0.68		c
	Black Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.24 N., R.5 W., Jackson County, at sewage lagoon, 0.5 mile south of Fairchild, Wis.	6.31	Aug. 15, 1972	2.74				
				June 26, 1973	4.33				
LC41	Black Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.24 N., R.5 W., Jackson County, at bridge on U.S. Highways 10 and 12, at Fairchild, Wis.	10.1	Aug. 8, 1973	4.16				
				June 27, 1972	2.68	1.3	0.50		c
	Black Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.24 N., R.5 W., Jackson County, at bridge on U.S. Highways 10 and 12, at Fairchild, Wis.	10.1	Aug. 14, 1972	4.10				
				June 25, 1973	7.30				
	Black Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.24 N., R.5 W., Jackson County, at bridge on U.S. Highways 10 and 12, at Fairchild, Wis.	10.1	Aug. 9, 1973	5.76				

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
LC43	Hay Creek	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.29 N., R.5 W., Chippewa County, at culvert on country road, and 1.1 miles north- east of Boyd, Wis.		June 27, 1972 Aug. 15, 1972 June 26, 1973 Aug. 8, 1973	1.05 1.09 1.45 1.44	0.78	0.54	c
	Hay Creek tributary	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.29 N., R.5 W., Chippewa County, at sewage treat- ment plant, at Boyd, Wis.	2.73					
LC44	Bridge Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.26 N., R.6 W., Eau Claire County, at sewage treat- ment plant, at Augusta, Wis.	34.9	June 27, 1972 Aug. 14, 1972 June 25, 1973 Aug. 9, 1973	8.89 10.2 23.0 56.9	6.1	4.3	c
LC47	Fall Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.26 N., R.7 W., Eau Claire County, at sewage treat- ment plant, 0.3 mile north of U.S. Highway 12 at Fall Creek, Wis.	15.8	June 27, 1972 Aug. 14, 1972 June 25, 1973 Aug. 9, 1973	1.88 2.49 4.52 9.61	1.1	0.72	c
LC52	Red Cedar River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.37 N., R.10 W., Washburn County, at culvert on County Trunk D, at Birchwood, Wis.	69.5	June 13, 1972 Aug. 16, 1972 June 28, 1973 Aug. 8, 1973	14.6 21.0 20.7 28.9	5.8	3.4	c
LC59	Red Cedar River	NW $\frac{1}{4}$ sec.26, T.28 N., R.13 W., Dunn County, on right bank at Menomonie, 900 feet downstream from powerplant of Northern States Power Co. and 1,000 feet downstream from Wilson Creek.	1760			590	420	a
LC61	Brill River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.36 N., R.11 W., Barron County, at bridge on County Trunk V, and 0.5 mi north of Brill, Wis.	94.3	Oct. 25, 1972 June 28, 1973 Aug. 9, 1973	52.0 54.7 52.5	(6)	(6)	

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LC65	Cranberry Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.34 N., R.11 W., Barron County, at culvert on U.S. Highway 8, at Cameron, Wis.	4.52	Oct. 26, 1972	5.23	2.0	1.4		c
				June 27, 1973	4.67				
				Aug. 9, 1973	3.91				
LC66	Yellow River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.34 N., R.11 W., at sewage treatment plant, Cameron, Wis.	5.03						
LC67	Chetek River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.34 N., R.12 W., Barron County, just downstream from dam and upstream from Quaderer Creek, in Barron, Wis.	146	Oct. 25, 1972	148	48	33		c
				June 27, 1973	117				
				Aug. 9, 1973	88.1				
LC68	Upper Pine Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.33 N., R.10 W., Barron County, just downstream from Tenmile Creek, and 1.4 miles southwest of Chetek, Wis.	194	Oct. 25, 1972	198	68	47		c
				June 27, 1973	143				
				Aug. 8, 1973	112				
LC68	Upper Pine Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.32 N., R.12 W., Barron County, at bridge on County Trunk U, and 1.1 miles north of Dallas, Wis.	8.85	Aug. 15, 1972	6.19	(3)	(3)		
				June 27, 1973	6.13				
				Aug. 8, 1973	6.46				
LC68	East Branch Upper Pine Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.32 N., R.12 W., Barron County, at bridge on County Trunk U, and 0.6 mile north of Dallas, Wis.	9.60	Aug. 8, 1973	7.21	(3)	(3)		
LC69	Upper Pine Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.32 N., R.12 W., Barron County, at sewage treatment plant, at Dallas, Wis.	19.7						
LC69	Lower Pine Creek tributary	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.31 N., R.12 W., Dunn County, at sewage treatment plant at Ridgeland, Wis.	7.94	June 27, 1972	0.86	0.50	0.30		c
				Aug. 15, 1972	1.40				
				June 27, 1973	1.38				
LC69	Lower Pine Creek tributary	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.31 N., R.12 W., Dunn County, at sewage treatment plant at Ridgeland, Wis.	7.94	Aug. 8, 1973	1.26				

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LC71	Hay River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.7, T.35 N., R.13 W., Barron County, at culvert on County Trunk P, and 0.6 mile south of Cumberland, Wis.	1.28	Aug. 16, 1972	10.8	(6)	(6)	(6)	
				June 28, 1973 Aug. 9, 1973	(2)7.74 0				
	Hay River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.35 N., R.13 W., Barron County, at culvert on country road, and 2.1 miles south of Cumber- land, Wis.		June 28, 1973	9.14	(6)	(6)		
				Aug. 9, 1973	0.14				
LC72	Hay River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.32 N., R.13 W., Barron County, at bridge on County Trunk F, and 1.8 miles north of Prairie Farm, Wis.	80.5	Oct. 26, 1972	53.1	41	38		c
				June 27, 1973 Aug. 8, 1973	50.6 47.1				
	Hay River	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.32 N., R.13 W., Barron County, 0.3 mile upstream from Turtle Creek at Prairie Farm, Wis.	84.8						
LC74	Lightning Creek	NW $\frac{1}{4}$ sec.19, T.34 N., R.13 W., Barron County, at bridge on County Trunk P, in Almaena, Wis.	19.0	June 28, 1973	(4)3.50	0.65	0.30		c
				Aug. 9, 1973	3.88				
	Lightning Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.34 N., R.13 W., Barron County, at sewage treatment plant, at Almaena, Wis.	19.4						
LC76	Turtle Creek	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.34 N., R.14 W., Barron County, at culvert on U.S. Highway 8, and 2.7 miles northeast of Turtle Lake, Wis.		Aug. 16, 1972	8.09	1.5	0.70		c
				June 28, 1973 Aug. 9, 1973	5.96 4.66				
	Turtle Creek tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.34 N., R.14 W., Barron County, at sewage treatment plant, and 1.9 miles east of Turtle Lake, Wis.	2.37						

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
LC79	Tiffany Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.30 N., R.15 W., St. Croix County, at bridge on country road, and 1.0 mile south- east of Glenwood City, Wis.	14.0	June 27, 1972	4.53	3.2	2.3	c
				Aug. 16, 1972	6.14			
				June 28, 1973	6.29			
				Aug. 8, 1973	5.54			
LC80	Tiffany Creek	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.30 N., R.15 W., St. Croix County, at sewage lagoons, and 1.3 miles southeast of Glenwood, Wis.	16.1					
LC82	Tiffany Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.30 N., R.14 W., Dunn County, at bridge on State Highway 79, at Boyceville, Wis.	73.3	June 27, 1972	19.5	9.0	5.2	c
				Oct. 26, 1972	38.2			
				June 28, 1973	29.5			
				Aug. 8, 1973	21.3			
LC86	Wilson Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.30 N., R.13 W., Dunn County, at sewage lagoon, and 1.2 miles northeast of Boyceville, Wis.	77.3					
LC82	Wilson Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.29 N., R.14 W., Dunn County, at sewage stabiliza- tion pond, and 2.1 miles east of Knapp, Wis.	27.5					
LC82	Wilson Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.28 N., R.14 W., Dunn County, at bridge on U.S. Highway 12, and 2.3 miles south- east of Knapp, Wis.	28.4	June 27, 1972	11.3	4.5	2.6	c
				Oct. 25, 1972	14.7			
				June 29, 1973	18.6			
				Aug. 7, 1973	18.6			
LC86	Eau Galle River tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.28 N., R.16 W., St. Croix County, at sewage lagoon, and 0.8 mile south of Woodville, Wis.	11.7	Aug. 15, 1972	(2)0.01	0	0	c
				June 29, 1973	(2)0			
				Aug. 8, 1973	(2)0			

TABLE 4.--Lower Chippewa River basin sewage-treatment plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
LC87	Eau Galle River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 27 N., R. 15 W., Pierce County, on town road near center of bridge at Spring Valley, 0.1 mile upstream from Mines Creek, 0.5 mile downstream from Lousy Creek.	64.8			7.6	6.4	a
LC89	Eau Galle River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 27 N., R. 15 W., Pierce County, on downstream right side of highway bridge in Elmwood, 2.0 miles upstream from Cady Creek.	91.9			15	11	a
LC93	Arkansas Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 25 N., R. 14 W., Pepin County, at bridge on County Trunk D and O, at Arkansas, Wis.	22.2	June 26, 1972 June 29, 1973 Aug. 7, 1973	4.85 9.45 9.30	3.5	3.0	c
LC94	Plum Creek	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 25 N., R. 15 W., Pierce County, at bridge on U.S. Highway 10 in Plum City, Wis.	31.5			2.8	2.0	b

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

(5) Negligible discharge - water ponded, unable to measure velocity.

(6) No estimate possible due to regulation upstream.

TABLE 5.--Upper Chippewa River basin sewage-treatment-plant locations and low-flow characteristics.

(1) DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7.2} (ft ³ /s)	Q _{7.10} (ft ³ /s)	Q ₃ (ft ³ /s)	
UC1	East Fork Chippewa River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.42 N., R.2 W., Ashland County, town road, 0.7 mile southeast of Glidden, Wis.	94.6	June 15, 1972 June 18, 1973	(4) 88.1 59.2	26	20		b
UC2	Chippewa River	SE $\frac{1}{4}$ sec.5, T.34 N., R.7 W., Rusk County, on U.S. Highway 8, on right bank 1.0 mile east of Bruce and 1.0 mile downstream from Thornapple River.	1630			440	300		a
UC4	Couderay River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.38 N., R.7 W., Sawyer County, at bridge on country road, 2.2 miles west of Radisson, Wis.	187	June 19, 1973 Oct. 17, 1973	116 255	34	16		c
UC5	Couderay River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.38 N., R.7 W., Sawyer County, at dam, and 0.6 mile south of Radisson, Wis.	206						
UC5	Brunet River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.9, T.38 N., R.5 W., Sawyer County, at bridge on County Trunk W, and 2.1 miles southeast of Winter, Wis.	58.7	June 13, 1972 June 19, 1973 Oct. 17, 1973	17.0 35.9 20.3	5.2	3.2		c
UC6	Soft Maple Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.34 N., R.8 W., Rusk County, at bridge on County Trunk F, and 1.2 miles southeast of Weyerhaeuser, Wis.	18.4	June 13, 1972 June 19, 1973 Aug. 8, 1973	5.03 6.72 7.96	0.63	0.18		c
UC8	Flambeau River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.41 N., R.1 E., Ashland County, 2.5 miles down- stream from Deer Creek and 6.0 miles east of Butternut, Wis.	737			290	160		a

TABLE 5.--Upper Chippewa River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
UC8	Flambeau River	NW ¹ / ₄ sec.24, T.40 N., R.1 W., Price County, at sewage treatment plant, at Park Falls, Wis.	769					
UC10	Flambeau River	S ¹ / ₂ sec.35, T.36 N., R.5 W., Rusk County, at Big Falls powerplant of Lake Superior District Power Co., 2.3 miles upstream from Josie Creek, 4.0 miles upstream from highway bridge, and 8.5 miles northeast of Ladysmith, Wis.	1820			710	430	a
UC12	Little Turtle River	SW ¹ / ₄ NE ¹ / ₄ sec.36, T.43 N., R.3 E., Iron County, at bridge on U.S. Highway 51, at Mercer, Wis.	9.77	June 15, 1972 June 18, 1973 Aug. 7, 1973	7.38 12.9 6.10	(3)	(3)	
UC15	Butternut Creek	NW ¹ / ₄ NE ¹ / ₄ sec.28, T.41 N., R.1 W., Ashland County, at sewage treat- ment plant outlet in Butternut, Wis.	25.0	June 15, 1972 June 18, 1973 Oct. 17, 1973	44.1 16.2 31.5	5.5	3.7	c
UC18	Jump River	SW ¹ / ₄ SE ¹ / ₄ sec.26, T.33 N., R.5 W., Rusk County, on right bank, just downstream from County Trunk C bridge in Sheldon, 1,500 feet upstream from Shoulder Creek and 11 miles upstream from mouth.	574			34	19	a
UC23	South Fork Jump River	SE ¹ / ₄ NE ¹ / ₄ sec.1, T.35 N., R.1 E., Price County, 0.2 mile west of State Highway 13 at Prentice, Wis.	59.7	June 14, 1972 June 19, 1973 Oct. 17, 1973	12.8 31.6 25.3	(3)	(3)	
UC24	Holmes Creek	NW ¹ / ₄ SW ¹ / ₄ sec.12, T.34 N., R.1 E., Price County, at bridge on State Highway 86, and 0.6 mile west of Ogema, Wis.	10.2	June 14, 1972 June 19, 1973 Oct. 16, 1973	0.44 4.63 2.35	0.04	0.01	c

TABLE 5.--Upper Chippewa River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
UC26	Silver Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.33 N., R.1 E., Taylor County, just downstream from State Highway 13, at Westboro, Wis.	35.8	June 14, 1972 June 19, 1973 Oct. 16, 1973	3.14 35.6 13.2	1.1	0.49	c	
UC28	South Fork Main Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.35 N., R.3 W., Rusk County, at sewage treatment plant, Hawkins, Wis.	17.5	June 14, 1972 June 19, 1973 Aug. 8, 1973	29.0 4.80 2.11	0.22	0.05	c	

- (1) Based on 1970 report by Wisconsin Department of Natural Resources.
(3) Unable to define relationship, additional discharge measurements are required.
(4) Additional discharge measurements are available.

TABLE 6.--Des Plaines River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7.2}	Q _{7.10}	(ft ³ /s) (ft ³ /s)	
DS4	Des Plaines River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.4, T.1 N., R.21 E., Kenosha County, at bridge on State Highway 50, 1.6 miles north- east of Bristol, Wis.	51.2	July 18, 1973 Aug. 8, 1973	3.78 0.97	(3)	(3)	(3)	
	Des Plaines River tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.1 N., R.21 E., Kenosha County, at sewage treat- ment plant at Bristol, Wis.	0.35						
DS5	Des Plaines River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.1 N., R.22 E., Kenosha County, at bridge on U.S. Highway 41 and Interstate Highway 94, 1.0 mile west of Pleasant Prairie, Wis.	60.6	July 17, 1973 Aug. 8, 1973	4.58 0.85	(3)	(3)	(3)	
DS6	Des Plaines River	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.1 N., R.22 E., Kenosha County, at bridge on County Trunk C, 0.6 mile southwest of Pleasant Prairie, Wis.	61.0	July 17, 1973 Aug. 8, 1973	5.25 0.81	(3)	(3)	(3)	
	Des Plaines River tributary	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.1 N., R.22 E., Kenosha County, at sewage treat- ment plant, 0.1 mile southwest of County Trunk C, at Pleasant Prairie, Wis.	0.69						
DS7	Brighton Creek	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.1 N., R.21 E., Kenosha County, at bridge on County Trunk K, 1.8 miles east of Paddock Lake, Wis.	16.6	July 18, 1973 Aug. 9, 1973	1.84 0.16	(3)	(3)	(3)	
	Brighton Creek tributary	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.2, T.1 N., R.20 E., Kenosha County, at sewage disposal plant at northeast edge of Paddock Lake, Wis.	0.28						

TABLE 6.--Des Plaines River basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
DS8	Salem Branch	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.1 N., R.20 E., Kenosha County, just downstream from confluence of tributaries from Paddock Lake and Hooker Lake, and 1.2 miles northeast of Salem, Wis.	3.80				(3)	(3)
DS9	Pleasant Homes Drainage Course tributary	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.1 N., R.22 E., Kenosha County, near Wis.-Ill. border off County Trunk EZ, 2.5 miles southwest of Carol Beach, Wis.	0.14					
	Pleasant Homes Drainage Course	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.1 N., R.22 E., Kenosha County, at culvert on State Line Road at Wis.-Ill. border, 2.5 miles southwest of Carol Beach, Wis.	0.63	Sept. 2, 1972 July 18, 1973 Aug. 8, 1973	0.38 0.03 <0.05 est.	<0.01	<0.01	c
DS10	Pike River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.3 N., R.22 E., Racine County, at culvert on State Highway 20, 1.5 miles west of Racine, Wis.	4.47	Sept. 2, 1972 July 17, 1973 Aug. 8, 1973 Oct. 26, 1973	2.18 0.15 0.08 0.15	0.02	0.01	c
DS11	Sturtevant tributary	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.3 N., R.22 E., Racine County, at culvert on Fancher Road, 0.3 mile north of Sturtevant, Wis.	0.67	Sept. 2, 1972 July 17, 1973 Aug. 8, 1973 Oct. 26, 1973	0.34 (2)0 (2)0 (2)0	0	0	c
DS12	Sturtevant tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.3 N., R.22 E., Racine County, at local road 0.2 mile east of 90th St., on the Milwaukee RR tracks at Sturtevant, Wis.	1.94	Sept. 2, 1972 July 17, 1973 Aug. 8, 1973 Oct. 25, 1973	0.68 (2)0 0.05 est. 0.01	0	0	c

TABLE 6.--Des Plaines River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
DS15	Pike River tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 2 N., R. 22 E., Kenosha County, at culvert on Chicago and Milwaukee RR at north edge of Somers, Wis.	0.85	Sept. 2, 1972 (5) July 17, 1973 Aug. 8, 1973 Oct. 26, 1973	0.18 0 0.01 est. < 0.01 est.	0	0	0	c
DS20	Carol Beach tributary	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 1 N., R. 23 E., Kenosha County, at culvert on Sheridan Road near Sheridan Road School at Carol Beach, Wis.	2.10	Sept. 2, 1972 July 18, 1973 Aug. 8, 1973	1.20 0.10 0.02	< 0.01	< 0.01	< 0.01	c

- (1) Based on 1967 report by Wisconsin Department of Natural Resources.
- (2) Streambed is dry.
- (3) Unable to define relationship, additional discharge measurements are required.
- (5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 7.--Duck Creek-Pensaukee River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
DP2	Little Suamico River	NE¼ SW¼ sec.32, T.26 N., R.19 E., Oconto County, at sewage treatment plant, 1.0 mile northeast of Pulaski, Wis.	2.06						
	Little Suamico River	NW¼ NE¼ sec.33, T.26 N., R.19 E., Oconto County, at culvert on Jaworski Road, 2.2 miles northeast of Pulaski, Wis.	9.29	July 27, 1972 Oct. 17, 1972 Aug. 2, 1973	0.72 0.47 0.34	0.15	0.09		c
DP3	Little Suamico River	SE¼ SE¼ sec.24, T.26 N., R.20 E., Oconto River, at bridge on County Trunk J, and 0.3 mile south of Little Suamico, Wis.	54.8	Aug. 13, 1969 Aug. 28, 1969 Oct. 17, 1972	1.46 0.66 9.73	0.16	0.04		c
DP4	Little Suamico River	SE¼ SE¼ sec.21, T.26 N., R.20 E., Oconto River, at bridge on Cross Road, and 0.7 mile south of Sobieski, Wis.	41.1	Aug. 13, 1969 Aug. 28, 1969 July 27, 1972 Oct. 17, 1972 Aug. 3, 1973	2.14 1.35 3.36 5.39 3.02	0.95	0.54		c
DP6	Suamico River	NE¼ SW¼ sec.21, T.25 N., R.20 E., Brown County, at bridge on country road, 1.5 miles southwest of Suamico, Wis.	56.7						
	Suamico River	NW¼ sec.22, T.25 N., R.20 E., Brown County, at bridge on County Trunk B, 0.5 mile west of Suamico, 7.5 miles north of Green Bay, and 3.0 miles upstream from mouth.	57.0	July 27, 1972 Oct. 17, 1972 Aug. 3, 1973	(4) 3.70 8.45 4.96	0.94	0.54		b
DP11	Duck Creek tributary	NW¼ NE¼ sec.21, T.22 N., R.18 E., Outagamie County, at sewage treat- ment facility for grade school of Freedom School District No. 3, and 2.0 miles southwest of Freedom, Wis.	8.72						

TABLE 7.--Duck Creek-Pensaukee River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7.2} (ft ³ /s)	Q _{7.10} (ft ³ /s)	
DP11	Duck Creek	SE½ SE¼ sec.16, T.22 N., R.18 E., Outagamie County, at bridge on Vine Road, 1.4 miles southwest of Freedom, Wis.	45.3	Oct. 17, 1972	4.53	(3)	(3)	
DP12&13	Duck Creek	NW¼ SE¼ sec.17, T.23 N., R.19 E., Outagamie County, at town road and 2.9 miles southwest of Oneida, Wis.	92.2	July 26, 1972 Aug. 2, 1973	(4) 0.38 1.24	0.07	0.02	b
	Duck Creek	SW¼ NW¼ sec.3, T.23 N., R.19 E., Brown County, at sewage treatment facility 0.3 mile upstream from State Highway 54 bridge, and at Oneida, Wis.	94.1					
DP14	Pensaukee River	SW¼ SW¼ sec.7, T.26 N., R.18 E., Shawano County, at bridge on town road, at Zachow, Wis.	3.73					
	Pensaukee River	SE¼ NE¼ sec.24, T.26 N., R.17 E., Shawano County, at bridge on County Trunk F, and 1.3 miles south of Zachow, Wis.	8.05	July 27, 1972 Oct. 18, 1972 Aug. 2, 1973	0.67 0.65 1.32	0.05	0.02	c
DP18	Pensaukee River	NE¼ NE¼ sec.1, T.26 N., R.18 E., Shawano County, at State Highway 32, at Krakow, and 6.3 miles north of Pulaski, Wis.	41.8	July 27, 1972 Oct. 18, 1972 Aug. 2, 1973	(4) 0.81 3.54 1.88	0.15	0.04	b
DP22	Pensaukee River	NW¼ NW¼ sec.26, T.27 N., R.20 E., Oconto County, at bridge on U.S. Highway 141, 1.1 miles northeast of Abrams, Wis.	115	July 27, 1972 Oct. 18, 1972 Aug. 2, 1973	7.18 20.0 8.99	1.0	0.34	c

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

TABLE 8.--Fox River (Illinois) basin sewage-treatment-plant locations and low-flow characteristics.

(1) DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
F1&2	Fox River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.7 N., R.20 E., Waukesha County, at sewage disposal ponds, just downstream from Poplar River, and 2.3 miles west of city hall in Brookfield, Wis.	74.7					
	Fox River	NE $\frac{1}{4}$ sec.24, T.7 N., R.19 E., Waukesha County, at bridge on County Trunk SS, 3.5 miles northeast of Waukesha, Wis.	77.4			3.7	2.1	b
F9	Fox River	SW $\frac{1}{4}$ sec.3, T.6 N., R.19 E., Waukesha County, on left bank, 20 ft downstream from Prairie Street bridge in Waukesha, 1.0 mile downstream from dam, and 3.2 miles downstream from Pewaukee River.	127			9.9	3.3	a
	Fox River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.9, T.6 N., R.19 E., Waukesha County, at sewage treatment plant, and 1.6 miles southwest of the post office in Waukesha, Wis.	130					
F10	Fox River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.4 N., R.19 E., Racine County, at bridge on State Highway 20 and 36, in Waterford, Wis.	356	Nov. 29, 1972 Aug. 7, 1973	328 147	(3)	(3)	
F12	Fox River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.1 N., R.20 E., Kenosha County, just downstream from Silver Lake tributary, and 0.7 mile south of Silver Lake, Wis.	863					
	Fox River	SW $\frac{1}{4}$ sec.30, T.1 N., R.20 E., Kenosha County, on right bank 100 ft down- stream from bridge on County Trunk C, 300 ft upstream from Wilnot Dam, 1.0 mile north of Wisconsin-Illinois State line and 6.0 miles upstream from Fox chain of lakes.	868			92	59	a

TABLE 8.--Fox River (Illinois) basin sewage-treatment-plant locations and low-flow characteristics---continued

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	LOW-FLOW charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
F35	White River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.2 N., R.18 E., Walworth County, just downstream from tail race of mill pond dam, at Lyons, Wis.	83.2	June 7, 1972 June 26, 1972 July 19, 1973 Aug. 9, 1973	36.0 44.4 24.5 40.7	6.4	3.6	c
F36	Bassett Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.1 N., R.19 E., Kenosha County, at sewage treat- ment plant, at Twin Lakes, Wis.	0.46					
	Bassett Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.15, T.1 N., R.19 E., Kenosha County, at bridge on County Trunk F, 1.3 miles northeast of Twin Lakes, Wis.	5.24	June 7, 1972 July 18, 1973 Aug. 9, 1973	0.68 1.14 1.22	0.18	0.10	c
F39	North Branch Nippersink Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.1 N., R.18 E., Walworth County, at bridge on County Trunk B, at Genoa City, Wis.	43.0	June 7, 1972 June 26, 1972 July 18, 1973 Aug. 9, 1973	22.1 40.3 31.5 28.9	5.6	3.2	c

(1) Based on 1967 report by Wisconsin Department of Natural Resources.

(3) Unable to define relationship, additional discharge measurements are required.

(6) No estimate possible due to regulation upstream.

TABLE 8.--Fox River (Illinois) basin sewage-treatment-plant locations and low-flow characteristics--continued

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
F14	Fox River tributary	NE ¹ ₄ NE ¹ ₄ sec.26, T.8 N., R.19 E., Waukesha County, at bridge on County Trunk VV, at Sussex, Wis.	7.77	June 8, 1972 July 17, 1973 Aug. 8, 1973	0.72 0.62 0.24	0.01	<0.01	c
	Fox River tributary	NE ¹ ₄ SW ¹ ₄ sec.26, T.8 N., R.19 E., Waukesha County, at sewage treat- ment plant, at Sussex, Wis.	7.91					
F16	Pewaukee River	SW ¹ ₄ SE ¹ ₄ sec.9, T.7 N., R.19 E., Waukesha County, at sewage treat- ment plant, at Pewaukee, Wis.	33.1	June 8, 1972 July 17, 1973 Aug. 8, 1973	15.0 6.97 3.09	0.28	0.04	c
F26	Mukwonago River	NE ¹ ₄ NE ¹ ₄ sec.35, T.5 N., R.18 E., Waukesha County, on U.S. Highway 83, 0.6 mile south of Mukwonago, Wis.		June 28, 1972 July 19, 1973 Aug. 7, 1973	32.2 25.6 97.7	(6)	(6)	
	Mukwonago River	SW ¹ ₄ SW ¹ ₄ sec.25, T.5 N., R.18 E., Waukesha County, at sewage treat- ment plant, at Mukwonago, Wis.	76.4					
F27	Muskego Creek	SE ¹ ₄ SW ¹ ₄ sec.9, T.5 N., R.20 E., Waukesha County, at bridge on County Trunk Y, at Muskego, Wis.	11.9	June 8, 1972 July 19, 1973 Aug. 7, 1973	3.02 1.63 1.55	0.22	0.05	c
F33	Honey Creek	SW ¹ ₄ NW ¹ ₄ sec.29, T.4 N., R.18 E., Walworth County, at bridge on County Trunk G, at East Troy, Wis.	44.2	June 8, 1972 July 19, 1973 Aug. 7, 1973	9.59 20.1 27.2	1.0	0.40	c
	Honey Creek	NW ¹ ₄ NE ¹ ₄ sec.29, T.4 N., R.18 E., Walworth County, at sewage treat- ment plant, at East Troy, Wis.	45.2					
F34	White River	SE ¹ ₄ SE ¹ ₄ sec.25, T.2 N., R.17 E., Walworth County, at sewage treat- ment plant, at Lake Geneva, Wis.	29.6	June 7, 1972 July 19, 1973 Aug. 9, 1973	16.0 8.53 28.2	2.9	1.7	c

TABLE 9.--Lower Fox River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
LF36	Mud Creek tributary	SE ¹ ₄ SW ¹ ₄ sec.20, T.21 N., R.17 E., Outagamie County, at bridge on U.S. Highway 10, and 3.1 miles west of city hall in Appleton, Wis.	0.56	July 25, 1972	0.08	<0.01	<0.01	c
				Oct. 11, 1972 Aug. 2, 1973	0.94 0.06			
LF38	Mud Creek	SW ¹ ₄ SE ¹ ₄ sec.29, T.21 N., R.17 E., Outagamie County, 0.1 mile upstream from bridge on County Trunk V, and 2.8 miles west of city hall in Appleton, Wis.	9.90	July 25, 1972	0.08	<0.01	<0.01	c
				Oct. 11, 1972 Aug. 2, 1973	0.94 0.06			
LF38	Mud Creek	SE ¹ ₄ NW ¹ ₄ sec.3, T.20 N., R.17 E., Winnebago County, 0.1 mile downstream from C & NW Railroad bridge, 2.6 miles southwest of Appleton, Wis.	25.4	July 25, 1972	0.16	<0.01	<0.01	c
				Oct. 11, 1972 Aug. 2, 1973	1.10 0.16			
LF45	Plum Creek tributary	SE ¹ ₄ NW ¹ ₄ sec.35, T.21 N., R.19 E., Brown County, at sewage treatment plant, at Holland, Wis.	4.66	July 25, 1972	(2) ₀	0	0	c
LF48	Plum Creek	NE ¹ ₄ NW ¹ ₄ sec.23, T.21 N., R.19 E., Brown County, at bridge on country road, and 2.4 miles north of Holland, Wis.	19.2	July 25, 1972	0.38	(3)	(3)	
				Oct. 12, 1972	0.37			
LF48	Tributary to Dutchman Creek tributary	NE ¹ ₄ NW ¹ ₄ sec.7, T.23 N., R.20 E., Brown County, at sewage treatment plant outfall at Austin-Straibel Airport, 0.2 mile upstream from mouth, and 4.1 miles northwest of post office at DePere, Wis.	0.90	July 25, 1972	0.38	(3)	(3)	
				Oct. 12, 1972	0.37			
LF48	Dutchman Creek tributary	SW ¹ ₄ NW ¹ ₄ sec.7, T.23 N., R.20 E., Brown County, at culvert on County Trunk GH, and 3.9 miles northwest of post office at DePere, Wis.	3.40	July 26, 1972	0.10	<0.01	<0.01	c
				Oct. 12, 1972 Aug. 2, 1973	0.98 0.06			

TABLE 9.--Lower Fox River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
LF52	East River tributary	SW $\frac{1}{4}$ sec. 5, T. 21 N., R. 20 E., Brown County, at sewage treatment plant, and 0.6 mile west of Greenleaf, Wis.	7.81					
	East River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 22 N., R. 20 E., Brown County, at bridge on country road, and 1.7 miles northwest of Greenleaf, Wis.	37.5	Aug. 13, 1969	1.25	0.04	0.01	c
				Aug. 28, 1969	0.37			
				Aug. 25, 1970	(2) 0			
				July 25, 1972	0.32			
				Oct. 12, 1972	2.49			

(1) Based on 1968 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

TABLE 10.--Upper Fox River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
UF1	Fox River	SW ¹ / ₄ NE ¹ / ₄ sec.4, T.12 N., R.10 E., Columbia County, at outlet of Spring Lake, in Pardeeville, Wis.	54.0	Nov. 28, 1972 July 19, 1973 Aug. 22, 1973	28.6 51.5 49.7			(3) (3)	
UF2	Fox River	NE ¹ / ₄ NW ¹ / ₄ sec.4, T.12 N., R.9 E., Columbia County, at bridge on State Highway 33, 1.7 miles northeast of Portage, Wis.	72.3	Oct. 23, 1931 Aug. 7, 1972 Sept. 11, 1972 Nov. 28, 1972 July 9, 1973 Aug. 20, 1973	22.5 24.1 56.6 53.0 35.1 33.6			(3) (3)	c
UF5	Fox River	NW ¹ / ₄ NE ¹ / ₄ sec.16, T.17 N., R.13 E., Green Lake County, 0.4 mile down- stream from dam, 1.0 mile south of Berlin, Wis.	1430			460	340		a
UF12	Westfield Creek	NE ¹ / ₄ NE ¹ / ₄ sec.12, T.16 N., R.8 E., Marquette County, just upstream from the sewage treatment plant, at Westfield, Wis.	23.4	Sept. 11, 1972 July 9, 1973 Aug. 20, 1973	40.4 50.6 40.7	26	23		c
UF14A	Grand River	SW ¹ / ₄ NW ¹ / ₄ sec.31, T.15 N., R.14 E., Fond du Lac County, just upstream from sewage disposal ponds, 1.0 mile southwest of Fairwater, Wis.	24.7	July 19, 1973 Aug. 22, 1973	7.96 4.63	(3)	(3)		
UF17	Grand River	NE ¹ / ₄ NE ¹ / ₄ sec.7, T.14 N., R.13 E., Green Lake County, at bridge on State Highway 44, at Markesan, Wis.	57.6	July 19, 1973	21.2	(3)	(3)		
UF20	White River	SE ¹ / ₄ NE ¹ / ₄ sec.3, T.18 N., R.10 E., Waushara County, just upstream from sewage treatment plant, at Wautoma, Wis.	16.5	Sept. 11, 1972 July 17, 1973 Aug. 20, 1973	18.7 19.9 20.5	7.8	6.1		c

TABLE 10.--Upper Fox River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
UF25	Silver Creek	SW ¹ / ₄ SE ¹ / ₄ sec.17, T.16 N., R.14 E., Fond du Lac County, at Ripon sewage treatment plant, 1.1 miles northwest of Ripon, Wis.	26.7	July 17, 1973 Aug. 20, 1973	9.85 7.38		(3)	(3)	
UF30,31A	Taycheedah Creek tributary	NW ¹ / ₄ NW ¹ / ₄ sec.6, T.15 N., R.18 E., Fond du Lac County, at bridge on County Trunk K, 0.3 mile south of Taycheedah, Wis.	0.54	Sept. 12, 1972 July 18, 1973 Aug. 21, 1973	(2)0 (5)0 (5)0	0	0		c
UF31	Taycheedah Creek	SW ¹ / ₄ NE ¹ / ₄ sec.12, T.15 N., R.17 E., Fond du Lac County, at bridge on State Highway 23, 2.0 miles east of Fond du Lac, Wis.	14.4	Nov. 30, 1972 July 18, 1973 Aug. 21, 1973	4.52 1.35 2.13	0.04	<0.01		c
UF33	De Neveu Creek tributary	SE ¹ / ₄ NE ¹ / ₄ sec.8, T.14 N., R.18 E., Fond du Lac County, just upstream from sewage treatment plant, 0.3 mile north of Eden, Wis.	2.85	Nov. 15, 1971 July 18, 1973 Aug. 21, 1973	0.34 0.44 0.61	0.09	0.03		c
UF36&37	DeNeveu Creek	NE ¹ / ₄ NE ¹ / ₄ sec.25, T.15 N., R.17 E., Fond du Lac County, at site on U.S. Highway 45, 3.1 miles southeast of Fond du Lac post office.	16.4	Nov. 16, 1971 July 18, 1973 Aug. 21, 1973	1.18 2.00 2.96	0.50	0.18		c
UF40	Campground Creek	SE ¹ / ₄ SW ¹ / ₄ sec.11, T.14 N., R.16 E., Fond du Lac County, just upstream from sewage treatment plant, at Oakfield, Wis.	9.44	Nov. 16, 1971 July 18, 1973 Aug. 21, 1973	2.61 6.57 5.76	1.0	0.33		c
UF42	Sevenmile Creek	NW ¹ / ₄ NE ¹ / ₄ sec.34, T.15 N., R.16 E., Fond du Lac County, at bridge on State Highway 103, at Lamartine, Wis.	17.5	July 18, 1973 Aug. 22, 1973	<0.01 test 0.01 test.	<0.01	<0.01		c

TABLE 10.--Upper Fox River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
UF44	West Branch Fond du Lac River	NW ¹ ₄ SW ¹ ₄ sec.36, T.16 N., R.15 E., Fond du Lac County, at culverts on County Trunk Highway 000, at sewage plant, 0.9 mile northeast of Rosendale, Wis.	5.32	Nov. 16, 1971 July 17, 1973 Aug. 20, 1973 Nov. 14, 1973	0.97 0.65 0.14 0.40				c
UF49&50	Fox River tributary	SE ¹ ₄ NW ¹ ₄ sec.3, T.18 N., R.16 E., Winnebago County, at bridge on State Highway 110, 3.7 miles north- west of city hall in Oshkosh, Wis.	0.68	July 17, 1973 Aug. 21, 1973	(5) ₀ (5) ₀	0	0		c

(1) Based on 1967 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 11.--Grant-Platte River basins sewage-treatment-plant locations and low-flow characteristics.

(1) DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
GP7	Gregory Branch	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.6 N., R.2 W., Grant County, at sewage-treatment plant in Fennimore, Wis.	0.42	June 21, 1972 Sept. 1, 1972 Aug. 3, 1973	0.14 0.28 0.24	0.06	0.04		c
GP8	Little Grant River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.6 N., R.4 W., Grant County, at sewage-disposal reservoir in Mount Hope, Wis.	0.56	June 21, 1972 Sept. 1, 1972 Aug. 3, 1973	0.09 0.13 0.39	0.04	0.03		c
GP9	Blake Fork tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.4, T.5 N., R.5 W., Grant County, at sewage-disposal site, 0.5 mile south of Patch Grove, Wis.	1.31	June 21, 1972 Aug. 31, 1972 Aug. 3, 1973	0.04 (2) ₀ 0.49	0	0		c
GP10	Blake Fork	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.5 N., R.5 W., Grant County, at sewage-disposal site in Bloomington, Wis.	17.9	June 21, 1972 Aug. 31, 1972 Aug. 3, 1973	3.88 8.30 12.8	1.3	0.68		c
GP11	Pigeon Creek tributary	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.4 N., R.3 W., Grant County, at bridge on town road to Lancaster sewage-treatment plant.	0.31	June 21, 1972	(2) ₀	0	0		c
GP18	Pigeon Creek	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.4 N., R.3 W., Grant County, at town road, 2.3 miles south of Lancaster, Wis.	6.93	June 21, 1972 Aug. 31, 1972 Aug. 2, 1973	(4) 2.66 4.71 4.91	1.5	0.91		b
GP18	Austin Branch tributary	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.4 N., R.3 W., Grant County, at County Hospital sewage-treatment plant, 2.1 miles southeast of Lancaster, Wis.	0.03						
GP18	Austin Branch	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.4 N., R.2 W., Grant County, at mouth, 2.7 miles northwest of Ellenboro, Wis.	5.52	Sept. 18, 1969 Aug. 18, 1970 Sept. 1, 1971 June 21, 1972 June 27, 1973 Aug. 2, 1973	3.40 3.43 3.12 3.00 8.94 5.74	1.6	1.0		c

TABLE 11.--Grant-Platte River basins, sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
GP21	Little Platte River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.5 N., R.1 W., Grant County, at sewage treat- ment plant, in Livingston, Wis.	0.23	June 23, 1972 Sept. 1, 1972 Aug. 3, 1973	0.26 1.21 1.13	0.04	0.01	c	
GP24	Roundtree Branch	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.17, T.3 N., R.1 W., Grant County, at sewage treatment plant, in Platteville, Wis.	12.5	Aug. 30, 1972 June 28, 1973 Aug. 2, 1973	4.75 12.4 8.94	1.5	0.86	c	
GP27	Indian Creek tributary	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.2 N., R.2 W., Grant County, at sewage treatment plant, at Dickeyville, Wis.	0.06	June 22, 1972 Aug. 30, 1972 Aug. 2, 1973	0.05 <0.01 1.79	<0.01 est.	<0.01	c	
GP29	Menominee River tributary	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.31, T.1 N., R.1 W., Grant County, sewage treatment plant at Sinsinui, Wis.	0.04	June 22, 1972 Aug. 30, 1972 Aug. 1, 1973	0.08 0.09 0.14	0.04	0.03	c	
GP30	Galena River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.1 N., R.1 E., Lafayette County, at bridge on State Highway 11, and 1.4 miles east of Benton, Wis.	71.0	June 22, 1972 Aug. 31, 1972 Aug. 1, 1973	17.0 27.3 51.5	3.2	1.2	c	
GP30	Galena River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.16, T.1 N., R.1 E., Lafayette County, at sewage treat- ment plant outfall, at Benton, Wis.	71.6						

TABLE 11.--Grant-Platte River basins sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
GP31	Scrabble Branch tributary	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.1 N., R.1 W., Grant County, at sewage treatment plant, at Hazel Green, Wis.	0.07	June 22, 1972	1.03	0.14	0.05	c
				Aug. 30, 1972 Aug. 1, 1973	1.07 2.79			
GP33	Shullsburg Branch	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.32, T.1 N., R.1 E., Lafayette County, at bridge on town road, and 2.1 miles southeast of Hazel Green, Wis.	4.69	June 22, 1972	1.10	0.20	0.07	c
				Aug. 31, 1972 Aug. 1, 1973	2.69 4.91			
GP39	Coon Branch tributary	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.2 N., R.1 E., Lafayette County, at sewage treat- ment plant, at Cuba City, Wis.	0.09	June 22, 1972	0.28	0.10	0.06	c
				Aug. 30, 1972 Aug. 2, 1973	0.35 0.56			
	Coon Branch	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.31, T.2 N., R.1 E., Lafayette County, at bridge on town road, and 1.4 miles south- east of Cuba City, Wis.	1.01	June 22, 1972				

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(4) Additional discharge measurements are available.

TABLE 12.--La Crosse River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7.2} (ft ³ /s)	Q _{7.10} (ft ³ /s)	Q ₁₀ (ft ³ /s)	
L4	La Crosse River	SE ₁₄ ¹ NE ₁₄ ¹ sec.27, T.18 N., R.3 W., Monroe County, on country road, 3.7 miles northeast of Angelo, Wis.	59.7	Aug. 13, 1970 Aug. 10, 1972 June 27, 1973 Sept. 11, 1973	58.3 60.5 103 72	46	38		c
L5	La Crosse River	NE ₁₄ ¹ SE ₁₄ ¹ sec.23, T.17 N., R.4 W., Monroe County, upstream from sewage treatment plant at Sparta, Wis.	168	June 27, 1973 Sept. 11, 1973	223 178	(3)	(3)		
L7	La Crosse River	NW ₁₄ ¹ NE ₁₄ ¹ sec.36, T.17 N., R.5 W., La Crosse County, on County Trunk J, 0.5 mile north of Rockland, Wis.	285	Aug. 13, 1970 Aug. 10, 1972 June 26, 1973 Sept. 11, 1973	178 195 338 236	140	110		c
L10	La Crosse River	SW ₁₄ ¹ SE ₁₄ ¹ sec.32, T.17 N., R.6 W., La Crosse County, at town road, 1.9 miles west of West Salem, Wis.	398			160	120		a
L11	Little La Crosse River	NW ₁₄ ¹ SW ₁₄ ¹ sec.30, T.15 N., R.3 W., Monroe County, at sewage treatment plant, at Cashton, Wis.	0.97						
L12	Little La Crosse River	NW ₁₄ ¹ NE ₁₄ ¹ sec.24, T.15 N., R.4 W., Monroe County, at State Highway 27, 0.8 mile northwest of Cashton, Wis.	3.05	Aug. 10, 1972 June 28, 1973 Sept. 11, 1973	0.78 2.03 2.22	0.35	0.21		c
L12	Little La Crosse River	SE ₁₄ ¹ NE ₁₄ ¹ sec.6, T.15 N., R.3 W., Monroe County, at County Trunk F, at Melvina, Wis.	18.4	Aug. 10, 1972 June 28, 1973 Sept. 11, 1973	6.37 12.3 12.7	3.2	2.1		c

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(3) Unable to define relationship, additional discharge measurements are required.

TABLE 13.--Manitowoc River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow characteristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
M11	Spring Creek	NW ¹ ₄ SE ¹ ₄ sec.26, T.20 N., R.20 E., Calumet County, at sewage treatment plant, 0.3 mile downstream from State Highway 114, at Brillion, Wis.	7.42	July 17, 1974 Oct. 11, 1972 July 31, 1973	1.70 1.74 0.92			0.34 0.17	c
M14	North Branch Manitowoc River tributary	SW ¹ ₄ SE ¹ ₄ sec.6, T.19 N., R.20 E., Calumet County, at sewage treatment plant, in Hilbert, Wis.	3.24						
	North Branch Manitowoc River tributary	SE ¹ ₄ SE ¹ ₄ sec.6, T.19 N., R.20 E., Calumet County, at culvert on Irish Road, 0.9 mile east of Hilbert, Wis.	4.16	July 17, 1972 Oct. 11, 1972 July 31, 1973	0.33 0.68 0.17			0.04 0.02	c
M19	South Branch Manitowoc River	NW ¹ ₄ NW ¹ ₄ sec.17, T.18 N., R.20 E., Calumet County, at town road, 1.1 miles northeast of Chilton, Wis.	75.2	July 17, 1972 Oct. 10, 1972 July 31, 1973	(4)8.66 54.5 5.19			0.76 0.21	b
M21	Pine Creek tributary	SW ¹ ₄ SW ¹ ₄ sec.11, T.17 N., R.20 E., Calumet County, at sewage treatment plant, in New Holstein, Wis.	3.62	July 17, 1972 Oct. 10, 1972 July 31, 1973	0.04 0.22 0.08			0.02 0.01	c
M26	Mud Creek	SW ¹ ₄ SW ¹ ₄ sec.2, T.19 N., R.21 E., Manitowoc County, at town road 1.0 mile south of Reedsville, Wis.	38.7	July 18, 1972 Oct. 11, 1972 Aug. 1, 1973 Nov. 13, 1973	(4)2.40 6.28 1.85 6.98			0.39 0.18	b
M28	Manitowoc River tributary	NE ¹ ₄ SE ¹ ₄ sec.24, T.18 N., R.21 E., Manitowoc County, at sewage treatment plant, at St. Nazianz, Wis.	0.38	July 18, 1972 Oct. 10, 1972 Aug. 1, 1973	0.06 0.03 0.28			(3) (3)	
M30	Manitowoc River tributary	SE ¹ ₄ SW ¹ ₄ sec.32, T.19 N., R.22 E., Manitowoc County, at sewage treatment plant, in Valders, Wis.	4.95	July 18, 1972 Oct. 10, 1972 Aug. 1, 1973 Nov. 13, 1973	0.62 1.08 0(2) 1.00			(3) (3)	

TABLE 13.--Manitowoc River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
M32	Branch River	NW ¹ / ₄ NE ¹ / ₄ sec.8, T.19 N., R.23 E., Manitowoc County, at Branch River Country Club sewage treatment plant, 0.1 mile upstream from town road, and 0.6 mile south of Branch, Wis.	108	July 18, 1972 Oct. 11, 1972 Aug. 1, 1973	16.7 22.7 18.6	5.3	3.0		c
M34	Branch River tributary	SW ¹ / ₄ NE ¹ / ₄ sec.2, T.19 N., R.22 E., Manitowoc County, at sewage treat- ment plant, in Whitelaw, Wis.	0.26						
	Branch River tributary	SW ¹ / ₄ NW ¹ / ₄ sec.2, T.19 N., R.22 E., Manitowoc County, town road 0.75 mile west of Whitelaw, Wis.	1.30	July 18, 1972 Oct. 11, 1972 Aug. 1, 1973	0.06 0.53 0.02	<0.01	<0.01		c
M35	Branch River tributary	SE ¹ / ₄ SW ¹ / ₄ sec.36, T.20 N., R.22 E., Manitowoc County, at sewage treatment site for Maple Crest Sanitarium, 0.9 mile northeast of Whitelaw, Wis.	0.01						
	Branch River tributary	NE ¹ / ₄ NE ¹ / ₄ sec.36, T.20 N., R.22 E., Manitowoc County, at culvert on County Trunk H, 1.8 miles northeast of Whitelaw, Wis.	0.96	Oct. 11, 1972	(5)0	0	0		c

- (1) Based on 1969 report by Wisconsin Department of Natural Resources.
(3) Unable to define relationship, additional discharge measurements are required.
(4) Additional discharge measurements are available.
(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 14.--Menominee-Peshtigo River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{1,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
ME6	Brule River tributary	SE ¹ ₄ SW ¹ ₄ sec.16, T.40 N., R.18 E., Florence County, at bridge on country road, and 1.0 mile north of Florence, Wis.	0.60					
	Brule River	SE ¹ ₄ SE ¹ ₄ sec.11, T.41 N., R.32 W., Michigan meridian, on left bank 40 ft upstream from highway bridge, 1.1 miles upstream from Paint River, and 2.6 miles north of Florence, Wis.	389			200	160	a
ME7	Chemical Creek	SW ¹ ₄ NE ¹ ₄ sec.3, T.36 N., R.17 E., Marinette County, just upstream from sewage treatment plant, at Goodman, Wis.	4.57	Aug. 1, 1972 June 27, 1973 Aug. 29, 1973	2.16 5.32 2.65	1.2	0.75	c
PE3	Peshtigo River	NE ¹ ₄ NE ¹ ₄ sec.30, T.30 N., R.23 E., Marinette County, on left bank, 75 ft downstream from railroad bridge, 0.5 mile downstream from WPSC power- plant in Peshtigo, and 11.5 miles upstream from mouth.	1120			280	210	a
PE5	Rat River	SW ¹ ₄ NW ¹ ₄ sec.31, T.36 N., R.15 E., Forest County, at culverts on County Trunk H, at Laona, Wis.	33.8	Aug. 1, 1972 June 26, 1973 Aug. 30, 1973	19.1 48.3 50.0	11	5.8	c
	Rat River	NE ¹ ₄ NW ¹ ₄ sec.6, T.35 N., R.15 E., Forest County, just downstream from confluence with Swanson Creek, and 1.0 mile south of Laona, Wis.	38.0					
PE7	Smith Creek	SW ¹ ₄ SE ¹ ₄ sec.10, T.32 N., R.20 E., Marinette County, at bridge on U.S. Highway 141, and 1.7 miles northeast of Crivitz, Wis.	10.6	June 28, 1973 Aug. 29, 1973	9.44 5.78	(3)	(3)	

TABLE 14.--Menominee-Peshtigo River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
PE8	South Branch Beaver Creek	SW ¹ / ₄ NE ¹ / ₄ sec.31, T.31 N., R.20 E., Marinette County, at bridge on country road, and 2.0 miles north- west of Pound, Wis.	49.8	Aug. 4, 1972	22.7	(3)	(3)	(ft ³ /s)	c
	South Branch Beaver Creek tributary	NE ¹ / ₄ NW ¹ / ₄ sec.2, T.30 N., R.20 E., Marinette County, at sewage treat- ment plant, 0.9 miles north of Pound, Wis.	2.41	Aug. 4, 1972 Aug. 28, 1973	(2) ₀ (2) ₀	0	0	(ft ³ /s)	c
PE9	Little Peshtigo River	NE ¹ / ₄ NW ¹ / ₄ sec.14, T.30 N., R.20 E., Marinette County, at bridge on U.S. Highway 141, and 0.8 mile north of Coleman, Wis.	43.8	Aug. 3, 1972 June 28, 1973 Aug. 28, 1973	9.97 67.7 12.5	4.5	3.1	(ft ³ /s)	c

(1) Based on 1969 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

TABLE 15.--Milwaukee River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number (1)	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s)	(ft ³ /s)	
M11	Milwaukee River	NE ¹ ₄ SE ¹ ₄ sec.7, T.13 N., R.19 E., Fond du Lac County, at bridge on private road, and 0.7 mile north- east from junction of State Highway 67 and County Trunk Y, in Campbells- port, Wis.	50.1			1.3	0.29	b
M13	Milwaukee River	NE ¹ ₄ SE ¹ ₄ sec.9, T.12 N., R.19 E., Washington County, at dam 0.25 mile downstream from State Highway 28 at Kewaskum, Wis.	146			8.6	0.66	a
M16	Milwaukee River	SE ¹ ₄ NE ¹ ₄ sec.14, T.11 N., R.19 E., Washington County, at bridge on city street, at West Bend, Wis.	225	July 26, 1972 June 14, 1973 Aug. 14, 1973	44.9 175 48.7	15	4.5	c
	Milwaukee River	SW ¹ ₄ NW ¹ ₄ sec.13, T.11 N., R.19 E., Washington County, at sewage treat- ment plant, at West Bend, Wis.	226					
M17	Milwaukee River	SW ¹ ₄ NE ¹ ₄ sec.12, T.11 N., R.20 E., Washington County, at County Trunk MY, at Newburg, Wis.	255	Oct. 3, 1968 June 14, 1973 Aug. 14, 1973	50.9 192 58.3	23	8.2	c
M19	Milwaukee River	NW ¹ ₄ NW ¹ ₄ sec.36, T.11 N., R.21 E., Ozaukee County, at bridge on State Highway 33, at Saukville, Wis.	453	June 14, 1973 Aug. 14, 1973	306 118	47	18	c
	Milwaukee River	NE ¹ ₄ SE ¹ ₄ sec.35, T.11 N., R.21 E., Ozaukee County, 50 ft upstream from sewage plant at Saukville, Wis.	457	Oct. 3, 1968	72.4			
M11	Milwaukee River	NW ¹ ₄ NE ¹ ₄ sec.25, T.10 N., R.21 E., Ozaukee County, just upstream from sewage treatment plant, at Grafton, Wis.	472	Aug. 14, 1973	121	(3)	(3)	

TABLE 15.--Milwaukee River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{1,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
M115	East Branch Milwaukee River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.13 N., R.19 E., Fond du Lac County, at bridge on County Trunk SS, 2.3 miles south of Dundee, Wis.	27.4	July 26, 1972 June 14, 1973 Aug. 15, 1973	7.90 25.4 8.52	2.1	0.65	c
M118	North Branch Milwaukee River tributary	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.13 N., R.21 E., Sheboygan County, at bridge on County Trunk W, 1.0 mile north of Adell, Wis.	4.15	July 26, 1972 Aug. 15, 1973	0.88 0.76	(3)	(3)	
M119	Silver Creek	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.13 N., R.21 E., Sheboygan County, at bridge on State Highway 144, 0.7 mile northwest of Random Lake, Wis.	11.6	July 26, 1972 June 14, 1973 Aug. 15, 1973	1.98 6.04 0.58	0.16	0.03	c
M124	Cedar Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.10 N., R.20 E., Washington County, at bridge on State Highway 60, 1.2 miles east of Jackson, Wis.	54.4	Sept. 16, 1968 Sept. 17, 1968 Oct. 2, 1968 July 25, 1972 June 13, 1973 Aug. 14, 1973	7.80 7.29 9.33 20.2 38.1 16.7	4.3	1.1	c
M131	Menomonee River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.9 N., R.20 E., Washington County, at bridge on Freistadt Road, 0.9 mile northwest of Germantown, Wis.	13.8	June 13, 1973 Aug. 14, 1973	2.69 0.30	(3)	(3)	
	Menomonee River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.9 N., R.20 E., Washington County, at sewage treat- ment plant, 1.0 mile west of Germantown, Wis.	18.0					
M133	Menomonee River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.33, T.9 N., R.20 E., Washington County, at County Trunk Q, 1.2 miles northwest of Menomonee Falls, Wis.	32.0			1.9	0.8	b

TABLE 15.--Milwaukee River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
MI34	Menomonee River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.8 N., R.20 E., Waukesha County, at bridge on 124th Street, 0.7 mile north of post office in Butler, Wis.	59.2	July 25, 1972	11.5	(ft ³ /s)(ft ³ /s)		c
				June 13, 1973	25.0	3.2	1.2	
				Aug. 14, 1973	8.53			

(1) Based on 1968 report by Wisconsin Department of Natural Resources.

(3) Unable to define relationship, additional discharge measurements are required.

TABLE 16.--Oconto River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	(1) Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
05	North Branch Oconto River	NW¼ SW¼ sec. 8, T.34 N., R.15 E., Forest County, at bridge on County Trunk H, at Wabeno, Wis.	30.2	Aug. 1, 1972 Oct. 19, 1972 June 26, 1973 Aug. 30, 1973	13.4 22.2 29.5 27.2	4.5	2.2	c
06	Oconto River	NE¼ NW¼ sec. 34, T.28 N., R.18 E., Oconto County, on left bank of bridge on County Trunk BB, 2 miles up- stream from Christie Brook, and 1.8 miles south of Gillett, Wis.	678			(7) 240	(7) 180	a
08	Little River tributary	SE¼ SE¼ sec. 27, T.29 N., R.20 E., Oconto County, at sewage treatment plant, at Lena, Wis.	1.36	Aug. 3, 1972 Aug. 28, 1973	(2) 0 (2) 0	0	0	c
	Little River tributary	NE¼ SE¼ sec. 26, T.29 N., R.20 E., Oconto County, at culvert on U.S. Highway 141, at Lena, Wis.	1.63	Aug. 3, 1972 Oct. 18, 1972 May 25, 1973 Aug. 28, 1973	(5) 0 (5) 0 1.56 0.016	0	0	c

(1) Based on 1969 report by Wisconsin Department of Natural Resources

(2) Streambed is dry.

(5) Negligible discharge - water ponded, unable to measure velocity.

(7) Sewage treatment plant discharge into Christie Brook at Gillett. Estimates of low-flow characteristics are not available, but will be determined when additional discharge measurements are obtained.

TABLE 17.--Pecatonica River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
P2	Pecatonica River	NE ¹ / ₄ SE ¹ / ₄ sec.26, T.6 N., R.1 E., Iowa County, at bridge on County Trunk G, at Cobb, Wis.	1.40	June 2, 1972 Aug. 10, 1972 July 31, 1973	0.40 0.58 0.96	0.19	0.10		c
P4	Pecatonica River	SW ¹ / ₄ NE ¹ / ₄ sec.3, T.2 N., R.3 E., Lafayette County, at State Highway 23, at Darlington, Wis.	273			55	34		a
P6	Pecatonica River tributary	SE ¹ / ₄ SW ¹ / ₄ sec.5, T.5 N., R.1 E., Iowa County, at town road, 2.6 miles northeast of Livingston, Wis.	4.32	June 2, 1972 Aug. 10, 1972 Aug. 3, 1973	1.35 1.92 3.15	0.58	0.29		c
P8A	East Pecatonica River tributary	NW ¹ / ₄ NW ¹ / ₄ sec.16, T.5 N., R.2 E., Iowa County, at bridge on State Highway 39, in Linden, Wis.	2.79	June 2, 1972 Aug. 10, 1972 July 31, 1973	0.84 0.75 2.54	0.20	0.07		c
	East Pecatonica River tributary	SW ¹ / ₄ NW ¹ / ₄ sec.16, T.5 N., R.2 E., Iowa County, at sewage treatment plant, in Linden, Wis.	3.07						
P9	Pedlar Creek	SW ¹ / ₄ SE ¹ / ₄ sec.26, T.6 N., R.2 E., Iowa County, at bridge on town road 4.6 miles west of Dodgeville, Wis.	1.46	June 2, 1972 Aug. 10, 1972 July 31, 1973	0.44 1.72 1.64	0.08	0.02		c
	Pedlar Creek	SE ¹ / ₄ NW ¹ / ₄ sec.35, T.6 N., R.2 E., Iowa County, at sewage treatment plant, and 4.8 miles west of Dodgeville, Wis.	1.67						
P10	Brewery Creek	SW ¹ / ₄ NE ¹ / ₄ sec.6, T.4 N., R.3 E., Iowa County, at bridge on town road, in Mineral Point, Wis.	6.74	June 2, 1972 Aug. 10, 1972 July 31, 1973	1.93 1.53 4.83	0.53	0.23		c
	Brewery Creek	SW ¹ / ₄ NE ¹ / ₄ sec.6, T.4 N., R.3 E., Iowa County, at bridge on town road, in Mineral Point, Wis.	6.79						

TABLE 17.--Pecatonica River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow characteristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
P14	Bonner Branch	SE ¹ / ₄ NE ¹ / ₄ sec.14, T.3 N., R.1 E., Lafayette County, at bridge on County Trunk G, in Belmont, Wis.	5.62	Aug. 10, 1972 June 28, 1973 Aug. 2, 1973	2.77 6.17 3.52	1.3	0.84		c
P19	Wolf Creek	NW ¹ / ₄ NE ¹ / ₄ sec.9, T.1 N., R.4 E., Lafayette County, at State Highway 11, at Gratiot, Wis.	27.6	Sept. 17, 1969 June 1, 1972 Aug. 1, 1972 Aug. 1, 1973	11.1 16.3 12.5 26.9	2.0	0.46		c
	Wolf Creek	SE ¹ / ₄ SE ¹ / ₄ sec.4, T.1 N., R.4 E., Lafayette County, at sewage treat- ment plant, at Gratiot, Wis.	28.3						
P26	East Branch Pecatonica River	SE ¹ / ₄ SE ¹ / ₄ sec.26, T.4 N., R.5 E., Lafayette County, at State Highway 78, 1.5 miles south of Blanchard- ville, Wis.	221			60	46		a
P29	Dodge Branch	SE ¹ / ₄ SE ¹ / ₄ sec.27, T.6 N., R.3 E., Iowa County, at sewage treatment plant, at Dodgeville, Wis.	1.05	June 2, 1972 Aug. 10, 1972 July 31, 1973	0.25 (2)0 0.09	0	0		c
P31	Dodge Branch	SE ¹ / ₄ NE ¹ / ₄ sec.30, T.5 N., R.5 E., Iowa County, at State Highway 191, at Hollandale, Wis.	66.0	June 2, 1972 Aug. 10, 1972 July 31, 1973	(4)29.3 21.7 54.9	16	11		b
	Dodge Branch	NE ¹ / ₄ SW ¹ / ₄ sec.29, T.5 N., R.5 E., Iowa County, at sewage treatment plant, at Hollandale, Wis.	67.0						
P56	Honey Creek	SW ¹ / ₄ SE ¹ / ₄ sec.33, T.2 N., R.7 E., Green County, just upstream from sewage disposal plant outlet, and 1.7 miles west of Monroe, Wis.	4.74	July 10, 1968 Oct. 21, 1968 June 1, 1972 Aug. 1, 1972 Aug. 1, 1973	2.78 2.63 2.85 2.76 3.97	1.9	1.5		c

- (1) Based on 1971 report by Wisconsin Department of Natural Resources.
 (2) Streambed is dry.
 (4) Additional discharge measurements are available.

TABLE 18.--Lower Rock River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s)	
LR20	Bark River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.7 N., R.18 E., Waukesha County, at bridge on County Trunk E, 0.7 mile south of Hartland, Wis.	32.3	June 2, 1972 July 23, 1973 Nov. 7, 1973	18.0 23.9 27.6	6.5	4.0	c
LR21	Bark River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.7 N., R.18 E., Waukesha County, at dam on outlet of Nagawicka Lake, in Delafield, Wis.	44.6	June 2, 1972 Nov. 29, 1972 July 23, 1973 Nov. 7, 1973	18.2 6.89 21.1 91.2	1.3	0.12	c
LR22	Bark River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.7 N., R.17 E., Waukesha County, at bridge on County Trunk Z, 0.4 mile north of Dousman, Wis.	56.9	June 2, 1972 July 23, 1973 Aug. 15, 1973 Nov. 7, 1973	19.7 32.1 31.4 32.7	2.9	0.58	c
LR24	Scuppernong Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.7 N., R.18 E., Waukesha County, at culvert on private road, 1.1 miles northwest of Wales, Wis.	2.17	June 2, 1972 July 23, 1973 Nov. 7, 1973	0.70 1.75 1.36	0.18	0.09	c
LR25	Duck Creek	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.7 N., R.16 E., Jefferson County, at culvert on State Highway 135, 1.9 miles north of Sullivan, Wis.	7.44	June 2, 1972 July 23, 1973 Oct. 17, 1973 Nov. 7, 1973	1.24 0.30 0.40 0.86	0.12	0.03	c
	Duck Creek	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.7 N., R.16 E., Jefferson County, at bridge on Bakertown Dr., 0.6 mile northwest of Sullivan, Wis.	11.0	Oct. 16, 1973	3.29			
LR26	Scuppernong River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.5 N., R.16 E., Jefferson County, at bridge at County Trunk E, at Palmyra sewage treatment plant.	27.8	June 2, 1972 July 23, 1973 Nov. 7, 1973	13.2 19.6 22.3	6.7	3.3	c

TABLE 18.--Lower Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LR29	Whitewater Creek	NW ¹ ₄ sec.4, T.4 N., R.15 E., Walworth County, at bridge on private road on county line, 0.6 mile north of post office at Whitewater, Wis.	48.7	Nov. 2, 1965 Sept. 25, 1971 June 2, 1972 July 25, 1973 Aug. 9, 1973 Nov. 6, 1973	33.2 14.3 20.4 27.4 25.3 34.1	11	7.9	c	
LR32	Koshkonong Creek	NW ¹ ₄ NE ¹ ₄ sec.8, T.8 N., R.11 E., Dane County, at sewage treatment plant, at Sun Prairie, Wis.	2.85	June 1, 1972 July 23, 1973 Nov. 5, 1973	0.25 0.54 0.13	0.04	0.02	c	
LR34	Koshkonong Creek	NW ¹ ₄ NE ¹ ₄ sec.12, T.6 N., R.12 E., Dane County, at bridge on U.S. Highway 12, at Cambridge, Wis.	151	June 2, 1972 July 24, 1973 Nov. 5, 1973	23.2 37.7 45.1	15	8.4	c	
LR35	Koshkonong Creek	SW ¹ ₄ NW ¹ ₄ sec.24, T.6 N., R.12 E., Dane County, at sewage treatment plant, in Rockdale, just downstream from dam on Rockdale Millpond.	190	June 2, 1972 July 24, 1973 Nov. 5, 1973	27.6 38.2 49.0	17	10	c	
LR36	Mud Creek tributary	NW ¹ ₄ SW ¹ ₄ sec.22, T.7 N., R.12 E., Dane County, at Deerfield sewage treatment plant outfall.	0.74	June 2, 1972 July 24, 1973 Nov. 5, 1973	0.43 0.20 0.66	0.09	0.03	c	
LR40	Yahara River tributary	NW ¹ ₄ SE ¹ ₄ sec.1, T.9 N., R.9 E., Dane County, at sewage disposal pond, and 0.9 mile northwest of Morrissonville, Wis.		June 1, 1972 July 23, 1973 Nov. 5, 1973	(2)0 (2)0 (2)0	0	0	c	
LR41	Yahara River	NW ¹ ₄ sec.17, T.9 N., R.10 E., Dane County, at bridge on County Trunk CV, at DeForest, Wis.	40.0	June 1, 1972 July 23, 1973 Nov. 5, 1973	4.03 10.8 13.5	2.8	1.7	c	

TABLE 18.--Lower Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LR43	Yahara River	SE ¹ / ₄ NE ¹ / ₄ sec.8, T.5 N., R.11 E., Dane County, at sewage treatment plant, at Stoughton, Wis.	407	June 2, 1972 July 26, 1973 Nov. 8, 1973	120 196 283	50	19		c
LR50	Sixmile Creek	SW ¹ / ₄ NE ¹ / ₄ sec.8, T.8 N., R.9 E., Dane County, at sewage treatment plant, at Waunakee, Wis.	35.5	June 1, 1972 July 23, 1973 Nov. 5, 1973	2.91 9.89 13.5	0.61	0.23		c
LR57	Oregon Branch	NW ¹ / ₄ SE ¹ / ₄ sec.6, T.5 N., R.10 E., Dane County, just upstream from confluence with Madison Metro- politan aquaduct tributary, 1.5 miles east of Oregon, Wis.	23.2	June 2, 1972 July 26, 1973	1.89 2.46	(3)	(3)		
LR58	Door Creek tributary	SW ¹ / ₄ NE ¹ / ₄ sec.17, T.7 N., R.11 E., Dane County, just upstream from sewage disposal ponds, 0.8 mile west of Cottage Grove, Wis.	2.70	June 1, 1972 July 24, 1973 Nov. 5, 1973	0.74 0.74 1.59	0.22	0.08		c
LR59	Oregon Branch	NW ¹ / ₄ NE ¹ / ₄ sec.12, T.5 N., R.9 E., Dane County, at sewage treatment plant, at Oregon, Wis.	12.6	June 2, 1972 est. July 23, 1973 Nov. 8, 1973	<0.05 0.14 0.17	<0.01	<0.01		c
LR60	Bass Creek	NW ¹ / ₄ SW ¹ / ₄ sec.4, T.2 N., R.11 E., Rock County, at bridge on State Highway 11, 0.7 mile south of Footville, Wis.	14.0	Aug. 14, 1968 Oct. 21, 1968 June 1, 1972 July 23, 1973 Nov. 8, 1973	5.61 6.16 6.95 7.88 8.26	3.4	2.5		c
LR63	Turtle Creek	NW ¹ / ₄ NW ¹ / ₄ sec.18, T.2 N., R.16 E., Walworth County, at Delavan sewage treatment plant.	80.7	Nov. 1, 1965 June 2, 1972 July 25, 1973 Aug. 9, 1973 Nov. 6, 1973	62.3 15.3 25.1 35.9 70.8	6.1	3.5		c

TABLE 18.--Lower Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
LR65	Jackson Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.2 N., R.17 E., Walworth County, at bridge on State Highway 67, 1.7 miles south of Elkhorn, Wis.	9.59	Aug. 14, 1968	1.15	0.46	0.32	c
				Oct. 17, 1968	0.62			
				June 2, 1972	0.83			
				July 25, 1973	1.26			
				Aug. 9, 1973	2.41			
				Nov. 6, 1973	2.47			
LR67	Little Turtle Creek	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.2 N., R.17 E., Walworth County, at State Highway 67, 0.9 mile south of Elkhorn, Wis.	1.7					
				June 2, 1972	est. 0.05	<0.01	<0.01	c
				July 25, 1973	0.18			
LR69	Spring Brook	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.1 N., R.15 E., Walworth County, at sewage treat- ment plant, 1.0 mile west of Sharon, Wis.	1.71	Nov. 6, 1973	0.44			
LR70	Piscasaw Creek	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.1 N., R.14 E., Rock County, at culvert on Clinton Corners Road, 1.7 miles southwest of Clinton, Wis.	3.09	June 2, 1972	0.70	0.31	0.21	c
				July 25, 1973	1.22			
				Nov. 6, 1973	1.46			
LR70	Piscasaw Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.25, T.1 N., R.15 E., Walworth County, at bridge on County Trunk B, 3.3 miles east of Sharon, Wis.	11.2	June 2, 1972	3.64	1.5	1.0	c
				June 26, 1972	3.59			
				July 25, 1973	8.12			
				Nov. 6, 1973	5.06			

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

TABLE 19.--Upper Rock River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number (1)	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s) (3)	
UR4	Rock River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.10 N., R.16 E., Dodge County, 1,000 ft downstream from dam, downstream from Wildcat Creek at Hustisford, Wis.	424	Aug. 15, 1967 Sept. 10, 1972 July 8, 1973 Sept. 13, 1973	1.45 88.4 142 1.61		(3)	
	Rock River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.15, T.10 N., R.16 E., Dodge County, at Hustisford sewage treatment plant, 0.6 mile south- east of Hustisford, Wis.	424					
UR5	Rock River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.8 N., R.15 E., Jefferson County, 700 ft downstream from Milwaukee Street Bridge at Watertown, Wis.	971			26	5.3	a
UR13	South Branch Rock River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.14 N., R.15 E., Fond du Lac County, 100 ft upstream from U.S. Highway 151, 0.8 mile northeast of Waupun, Wis.	62.8	June 1, 1972 July 17, 1973 Sept. 11, 1973	(4) 12.2 12.2 3.99	0.63	0.06	a
UR15	South Branch Rock River tributary	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.15 N., R.14 E., Fond du Lac County, at bridge on County Trunk JJ, 1.0 mile south of Brandon, Wis.	1.23	June 1, 1972 July 17, 1973 Sept. 11, 1973	0.73 0.32 0.13	0.01	<0.01	c
UR16	East Branch Rock River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.11 N., R.18 E., Washington County, at County Trunk W, 0.3 mile south of Allenton, Wis.	27.4	Aug. 15, 1967 June 1, 1972 July 19, 1973 Sept. 12, 1973	2.95 4.63 5.17 7.44	2.3	1.3	c
UR19	East Branch Rock River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.10, T.12 N., R.17 E., Dodge County, just downstream from dam, at Theresa, Wis.	140	June 1, 1972 July 18, 1973 Sept. 12, 1973	37.3 36.7 29.5	6.8	2.8	c

TABLE 19.--Upper Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
UR21	East Branch Rock River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.12 N., R.16 E., Dodge County, at sewage treatment plant at Mayville, Wis.	172						
		NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.12 N., R.16 E., Dodge County, 500 ft downstream from Kekoskee dam, 2.0 miles north- west of Mayville, Wis.	179			5.8	1.6		a
UR23	East Branch Rock River tributary	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.13 N., R.17 E., Dodge County, at culvert on country road, and 1.5 miles south of Lomira, Wis.	3.66	June 1, 1972 July 18, 1973 Sept. 12, 1973	1.56 1.87 1.10	0.50	0.21		c
		SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.13 N., R.17 E., Dodge County, just upstream from sewage treatment plant, at Browns- ville, Wis.	15.3	June 1, 1972 July 18, 1973 Sept. 12, 1973	2.08 5.21 1.29	0.15	0.01		c
UR29	Dead Creek	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.27, T.11 N., R.15 E., Dodge County, at Juneau sewage treat- ment plant at south edge of city, and about 0.3 mile south of Highway 115 bridge.	1.52	June 1, 1972 July 18, 1973 Sept. 13, 1973	0.70 1.36 0.89	0.02	<0.01		c
		NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.10 N., R.15 E., Dodge County, at sewage disposal ponds, and 1.5 miles northeast of Clyman, Wis.	4.18						
UR31	Dead Creek tributary	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.10 N., R.15 E., Dodge County, at culvert on State Highway 60, and 2.2 miles northeast of Clyman, Wis.	5.25	July 18, 1973 Sept. 13, 1973	(2)0.14 (2)0	0	0		c

TABLE 19.--Upper Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
UR32	Wildcat Creek	SE½ SE¼ sec. 26, T.11 N., R.16 E., Dodge County, at town road bridge about 1.1 miles southwest of Iron Ridge, Wis.	21.3	June 1, 1972 July 18, 1973 Sept. 12, 1973	3.89 1.39 0.85	0.11	0.02		c
UR33	Rubicon River	NW¼ SE¼ sec.13, T.10 N., R.18 E., Washington County, at culvert on Hartford Road, and 1.1 miles west of Slinger, Wis.	4.03	June 1, 1972 July 19, 1973 Aug. 15, 1973	1.06 0.60 0.37	0.07	0.01		c
	Rubicon River	SE¼ SW¼ sec.13, T.10 N., R.18 E., Washington County, just downstream from confluence with intermittent tributary from sewage disposal plant, and 1.3 miles west of Slinger, Wis.	5.00						
UR35	Rubicon River	SE¼ NW¼ sec.20, T.10 N., R.18 E., Washington County, at sewage treat- ment plant outfall, and at west city limits of Hartford, Wis.	27.4	June 1, 1972 Oct. 4, 1972 July 19, 1973 Aug. 15, 1973	4.16 8.68 3.11 3.08	1.6	0.82		c
UR43	Tributary to Rock River tributary	SW¼ SW¼ sec.22, T.8 N., R.16 E., Jefferson County, at sewage treat- ment plant in Ixonia, Wis.	0.75	Nov. 7, 1973	0.30	(3)	(3)		
UR44	Oconomowoc River	NE¼ NW¼ sec.5, T.7 N., R.17 E., Waukesha County, at bridge on County Trunk BB, just south of Oconomowoc, Wis.	104	June 2, 1972 Sept. 10, 1972 July 19, 1973 Aug. 15, 1973	5.60 75.0 11.5 29.8	1.2	0.12		c
	Oconomowoc River	SW¼ NE¼ sec.5, T.7 N., R.17 E., Waukesha County, 1,400 ft down- stream from County Trunk BB, at sewage treatment plant outfall.	104						

TABLE 19.--Upper Rock River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow characteristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
UR48	Crawfish River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.10 N., R.12 E., Columbia County, at bridge on U.S. Highway 16, 1.6 miles south of Fall River, Wis.	76.1	Aug. 15, 1967	6.76	1.6	0.22	c	
				June 2, 1972	14.2				
				Sept. 10, 1972	17.2				
				July 17, 1973	20.9				
UR49	North Branch Crawfish River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.11 N., R.12 E., Columbia County, at County Trunk D, at Fall River, Wis.	76.5	Sept. 11, 1973	19.6				
				June 2, 1972	8.34	0.82	0.10	c	
				Sept. 10, 1972	19.5				
				July 17, 1973	14.4				
UR51	Crawfish River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.11 N., R.12 E., Columbia County, at sewage treatment plant 0.4 mile south of Fall River, Wis.	78.0	Sept. 11, 1973	12.1				
				June 2, 1972	26.1	2.7	0.38	c	
				Sept. 10, 1972	44.8				
				July 17, 1973	34.2				
UR56	Maunsha River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.10 N., R.13 E., Dodge County, at sewage treatment plant, 0.8 mile downstream from U.S. Highway 16 bridge, 1.0 mile southeast of Columbus, Wis.	186	Sept. 11, 1973	34.2				
				June 2, 1972	10.9	1.8	0.41	c	
				Sept. 10, 1972	13.1				
				July 19, 1973	10.5				
UR59	Maunsha River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.8 N., R.12 E., Dane County, at sewage treatment plant, at Marshall, Wis.	69.0	Sept. 11, 1973	11.5				
				June 2, 1972	14.7	2.6	0.56	c	
				Sept. 10, 1972	18.7				
				July 18, 1973	16.3				
UR59	Maunsha River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.8 N., R.13 E., Jefferson County, at sewage treat- ment plant outfall in Fireman Park, Waterloo, Wis.		Sept. 13, 1973	15.8				

TABLE 19.--Upper Rock River basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
UR63	Beaverdam River	NE¼ SW¼ sec.4, T.11 N., R.14 E., Dodge County, at bridge on Davis Street, in Beaver Dam, Wis.	157	Aug. 14, 1967 June 2, 1972 July 17, 1973 Sept. 11, 1973	26.0 20.1 3.42 13.0	(6)	(6)	(6)	
UR65	Beaverdam Lake tributary	SE¼ NE¼ sec.35, T.13 N., R.13 E., Dodge County, at sewage treatment plant, 0.1 mile downstream from C.M. St. P & P Railroad, in Fox Lake, Wis.	1.28	June 1, 1972 July 17, 1973 Sept. 11, 1973	0.32 0.46 0.37	(3)	(3)		
UR66	Beaver Creek tributary	SW¼ SW¼ sec.13, T.12 N., R.12 E., Columbia County, at bridge on County Trunk G, 2.4 miles southwest of Randolph, Wis.	4.58	June 1, 1972 July 17, 1973 Sept. 11, 1973	1.00 0.74 0.43	0.12	0.02		c
UR69	Beaverdam River tributary	NW¼ SE¼ sec.28, T.10 N., R.14 E., Dodge County, at bridge on County Trunk J, 0.2 mile east of Reese- ville, Wis.	3.51	June 2, 1972 July 18, 1973 Sept. 13, 1973	0.18 0.10 0.01	<0.01	<0.01		c
UR71	Rock Creek	NW¼ NE¼ sec.13, T.7 N., R.13 E., Jefferson County, at County Trunk B, in Lake Mills, Wis.	15.0	June 1, 1972 Sept. 10, 1972 July 19, 1973 Sept. 13, 1973	1.12 1.22 7.24 1.08	0.45	0.21		c
	Rock Creek	SE¼ SE¼ sec.12, T.7 N., R.13 E., Jefferson County, at sewage treat- ment plant, 0.8 mile east of Lake Mills, Wis.	15.2						

(1) Based on 1969 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

(6) No estimate possible due to regulation upstream.

TABLE 20.--Root River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
RT3	Root River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.5 N., R.21 E., Milwaukee County, 400 ft upstream from State Highway 100, 2.4 miles southeast of Franklin, Wis.	49.3					3.4	1.0
RT4	Root River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.4 N., R.22 E., Racine County, at bridge on State Highway 38, and 2.5 miles north of Caledonia, Wis.	149	July 25, 1972	39.6				
				June 12, 1973	64.8			4.3	2.0
				Aug. 13, 1973	8.56				c
RT9	Tributary to Root River tributary	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.4 N., R.22 E., Racine County, at sewage treatment plant, and 2.6 miles northeast of Caledonia, Wis.	150						
				July 25, 1972	0.05			0	0
				June 13, 1973	0.25				
RT10	Tributary to Root River tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.6 N., R.20 E., Waukesha County, at bridge on County Trunk HH, 2.6 miles west of Hales Corners, Wis.	2.66	Aug. 13, 1973	(2) 0				
								0.01	<0.01
				July 25, 1972	0.10				c
RT11	Tributary to Root River tributary	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.5 N., R.20 E., Waukesha County, at bridge on State Highway 24, and 2.5 miles northeast of Muskego, Wis.	3.05	June 13, 1973	0.55				
				Aug. 13, 1973	0.04				
								0.03	<0.01
RT18&20	West Branch Root River Canal	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.5 N., R.21 E., Milwaukee County, at bridge on County Trunk J, and 2.0 miles south of Hales Corners, Wis.	6.50	July 25, 1972	0.35				
				June 13, 1973	1.78				
				Aug. 13, 1973	0.11				c
RT18&20	West Branch Root River Canal	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.3 N., R.21 E., Racine County, at culvert on 67th Drive, and 1.0 mile east of Union Grove, Wis.	3.94	July 24, 1972	0.70			0.06	0.03
				June 12, 1973	3.05				
				Aug. 13, 1973	0.38				c

TABLE 20.--Root River basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
RT24	Hoods Creek	SW ¹ / ₄ NE ¹ / ₄ sec.17, T.3 N., R.22 E., Racine County, at bridge on State Highway 20, and 2.1 miles north- west of Sturtevant, Wis.	3.22	July 24, 1972 June 12, 1973 Aug. 13, 1973	1.38 1.35 0.01		<0.01	c
RT30	Lake Michigan tributary	SE ¹ / ₄ SE ¹ / ₄ sec.21, T.4 N., R.23 E., Racine County, at culvert on road to sewage treatment plant, and 0.8 mile west of Wind Point, Wis.	1.03	July 24, 1972 June 12, 1973 Aug. 13, 1973	2.14 2.75 0.43		0.22	0.11 c

(1) Based on 1967 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

TABLE 21.--St. Croix River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
SC3	St. Croix River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.34 N., R.18 W., Polk County, on left bank 0.3 mile downstream from powerplant at St. Croix Falls, Wis.	5930			1500	1100	a
SC6	Namekagon River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.41 N., R.9 W., Sawyer County, at ranger station, and 0.8 mile southwest of U.S. Highway 63 and State Highway 27 in Hayward, Wis.	231	May 22, 1973 Sept. 19, 1973 Oct. 17, 1973	282 203 304	160	130	c
SC7	Frog Creek	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.42 N., R.11 W., Washburn County, at bridge on country road, and 1.8 miles northeast of Minong, Wis.	46.1	Aug. 22, 1967 Aug. 21, 1969 Aug. 25, 1970 May 21, 1971 Oct. 13, 1971 May 22, 1973 Sept. 20, 1973	4.99 3.83 2.05 26.1 16.6 26.2 6.60	2.5	0.87	c
SC8	Yellow River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.39 N., R.13 W., Washburn County, at sewage treatment pond, 1.3 miles west of Spooner, Wis.	77.9					
	Yellow River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.39 N., R.13 W., Washburn County, at Tozer Lake Road, and 2.0 miles west of Spooner, Wis.	81.9	Aug. 16, 1972 May 21, 1973 Sept. 25, 1973	46.0 54.6 70.0	(3)	(3)	
SC9	Sawyer Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.25, T.38 N., R.13 W., Washburn County, at sewage disposal plant, and at Shell Lake, Wis.	26.2					
	Sawyer Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.38 N., R.13 W., Washburn County, at culvert on country road, and 2.8 miles north of Shell Lake, Wis.	33.7	Aug. 16, 1972 May 21, 1973 Sept. 25, 1973	8.69 7.56 6.68	3.7	2.6	c

TABLE 2L.--St. Croix River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
SC11	Clam River tributary	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.16, T.39 N., R.16 W., Burnett County, at sewage stabil- ization pond, 0.5 mile southeast of Webster, Wis.	0.47					
				Aug. 16, 1972	0.30	0.15	0.09	c
	Clam River tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.16, T.39 N., R.16 W., Burnett County, at culvert on Bass Lake Road, 1.2 miles southeast of Webster, Wis.	1.54	May 24, 1973	1.87			
				Sept. 25, 1973	0.65			
SC13	Wood River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.38 N., R.19 W., Burnett County, at bridge on State Highway 70, 1.3 miles west of Grantsburg, Wis.	163	May 23, 1973	96.8	30	21	c
				Sept. 25, 1973	59.1			
	Trade River tributary	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.34, T.37 N., R.17 W., Polk County, at culvert on State Highways 35 and 48, and 0.6 mile south of Frederic, Wis.	1.56	Oct. 17, 1973	130			
				Aug. 15, 1972	0.17	(3)	(3)	
	Trade River tributary	Polk County, at sewage treatment plant, at Luck, Wis.	0.08	May 23, 1973	0.08			
				Sept. 25, 1973	0.02			
SC18	Trade River tributary	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.36 N., R.17 W., Polk County, at sewage treatment plant, at Luck, Wis.	0.08					
				Aug. 15, 1972	1.04	0.17	0.07	c
	Trade River tributary	Polk County, at culvert on country road, 1.7 miles north of Luck, Wis.	2.13	May 24, 1973	8.31			
				Sept. 25, 1973	0.85			
SC19	St. Croix River tributary	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.33 N., R.18 W., Polk County, just upstream from sewage treatment plant, 0.4 mile west of Dresser, Wis.	4.95	Aug. 14, 1972	0.74	0.03	0.02	c
				May 24, 1973	0.30			
	St. Croix River tributary	Sept. 25, 1973	0.20					

TABLE 21.--St. Croix River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
SC20	St. Croix River tributary	NW¼ SW¼ sec.27, T.33 N., R.19 W., Polk County, just upstream from sewage treatment plant, at Osceola, Wis.	0.15	Aug. 14, 1972 May 24, 1973 Sept. 25, 1973 Oct. 18, 1973	(2) ₀ 1.15 0.21 0.10				c
SC21	Apple River	NW¼ SW¼ sec.33, T.33 N., R.16 W., Polk County, just upstream from sewage treatment plant, on town road, 0.1 mile southeast of junction of County Trunk F and State Highway 46 at Amery, Wis.	256	Aug. 14, 1972 May 29, 1973	238 459	(3)	(3)	(3)	
SC22	Apple River	SE¼ SE¼ sec.35, T.31 N., R.19 W., St. Croix County, at bridge on State Highways 35 and 64, in Somerset, Wis.	550						
	Apple River	NE¼ SE¼ sec.21, T.31 N., R.19 W., St. Croix County, at powerplant of NSP Co., 3.1 miles northwest of Somerset, Wis.	555			140	77		a
SC23	South Branch Beaver Brook tributary	NW¼ SW¼ sec.11, T.33 N., R.15 W., Polk County, at culvert on country road, and 2.2 miles northwest of Clayton, Wis.	2.73	Aug. 14, 1972 May 29, 1973	2.06 2.08	(3)	(3)		
SC26	Balsam Branch	NW¼ SW¼ sec.17, T.35 N., R.17 W., Polk County, at sewage treatment plant, 0.5 mile south of Milltown, Wis.	2.68						
	Balsam Branch	SE¼ SW¼ sec.17, T.35 N., R.17 W., Polk County, at bridge on town road 1.0 mile south of Milltown, Wis.	4.40	Aug. 15, 1972 May 24, 1973	0.60 0.76	(3)	(3)		

TABLE 2L.--St. Croix River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
SC27	Balsam Branch	NE¼ SE¼ sec.10, T.34 N., R.17 W., Polk County, just upstream from sewage treatment plant, at south side of town of Balsam Lake, Wis.	44.6	Aug. 15, 1972 May 24, 1973	23.0 28.0			(3) (3)	
SC30	Willow River tributary	SE¼ NW¼ sec.20, T.32 N., R.15 W., Polk County, at bridge on town road, and at Clear Lake, Wis.	1.93	Aug. 14, 1972 May 29, 1973 Sept. 26, 1973	(2)0 (2)0.24 0	0	0		c
SC31&33	Willow River	SW¼ SE¼ sec.35, T.31 N., R.18 W., St. Croix County, just downstream from sewage treatment plant, and 0.9 mile west of New Richmond, Wis.	205	Aug. 17, 1972 May 24, 1973 Sept. 24, 1973	42.5 102 48.8	27	15		c
SC35	Hutton Creek tributary	NW¼ SE¼ sec.13, T.30 N., R.16 W., St. Croix County, at bridge on town road, and at Emerald, Wis.	5.83	Aug. 17, 1972 May 24, 1973 Sept. 26, 1973 Oct. 18, 1973	(5)0 (5)0.88 (5)0 (5)0	0	0		c
SC37	Kinnickinnic River tributary	NE¼ NE¼ sec.32, T.29 N., R.17 W., St. Croix County, at bridge on county road, and 1.5 miles south- west of Hammond, Wis.	1.88	Aug. 16, 1972 Oct. 18, 1973	(2)0 (2)0	0	0		c
SC38	Kinnickinnic River	NE¼ NE¼ sec.36, T.28 N., R.19 W., St. Croix County, at State Highway 35, 1.2 miles north of River Falls, Wis.	95.8	Aug. 20, 1969 Aug. 17, 1972 May 24, 1973 Sept. 24, 1973	32.4 43.3 57.2 40.4	33	30		c
	Kinnickinnic River	SE¼ SE¼ sec.2, T.27 N., R.19 W., Pierce County, at the sewage treat- ment plant, and at River Falls, Wis.	117						

(1) Based on 1965 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 22.--Sheboygan River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number (1)	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
SH8	Pine Creek	SE¼ SE¼ sec.22, T.18 N., R.23 E., Manitowoc County, at bridge on County Trunk C, 1.0 miles north-east of Newton, Wis.	6.17	July 17, 1972 July 12, 1973 Aug. 21, 1973	0.30 1.06 0.16			< 0.01	c
	Pine Creek tributary	NW¼ SW¼ sec.27, T.18 N., R.23 E., Manitowoc County, at Stock's Supper Club and Mfg. Co. STP, 0.7 mile northwest of Newton, Wis.	1.07						
SH11	Sevenmile Creek	NE¼ SE¼ sec.16, T.16 N., R.23 E., Sheboygan County, at bridge on County Trunk LS, 0.4 mile northeast of Haven, Wis.	5.57	July 19, 1972 July 12, 1973 Aug. 21, 1973	0.16 0.35 0.55			0.01	c
SH13	Pigeon River	SE¼ SE¼ sec.26, T.16 N., R.22 E., Sheboygan County, at sewage treatment plant 0.2 mile east of State Highway 32, 0.3 mile northeast of Millersville, Wis.	50.5	July 19, 1972 July 12, 1973 Aug. 21, 1973	3.97 5.31 23.1			0.12	c
SH16	Pigeon River tributary	SE¼ SW¼ sec.21, T.16 N., R.22 E., Sheboygan County, at bridge on County Trunk A, 1.3 miles east of Franklin, Wis.	1.38	July 19, 1972 July 12, 1973 Aug. 12, 1973	0.07 0.03 0.06			< 0.01	c
SH18	Pigeon River tributary	SE¼ SE¼ sec.13, T.15 N., R.22 E., Sheboygan County, at bridge on country road, 0.2 mile north of County Trunk O, 1.5 miles north-west of Kohler, Wis.	7.32	July 18, 1972 July 12, 1973 Aug. 21, 1973	0.02 (5)0 (5)0			0.02 est.0	c
SH20	Sheboygan River	SE¼ NE¼ sec.36, T.16 N., R.19 E., Fond du Lac County, at bridge on local road 0.1 mile east of County Trunk G and 0.5 mile south of St. Cloud, Wis.	56.3	July 18, 1972 Nov. 15, 1973	5.43 35.4			1.3	c

TABLE 22.--Sheboygan River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
SH21	Sheboygan River	NW¼ SE¼ sec.30, T.17 N., R.21 E., Manitowoc County, at bridge on State Highway 32, at Kiel, Wis.	136	July 18, 1972 July 12, 1973 Aug. 20, 1973	14.7 0.63 6.60	(6)	(6)	(ft ³ /s)	
SH24	Sheboygan River	SE¼ NE¼ sec.29, T.15 N., R.23 E., Sheboygan County, 0.7 mile upstream from State Highway 28, 2.7 miles southwest of downtown Sheboygan, Wis.	432			26	15		a
SH27	Sheboygan River tributary	NE¼ NW¼ sec.32, T.16 N., R.19 E., Fond du Lac County, at bridge on County Trunk W, at Mt. Calvary, Wis.	13.1	July 19, 1972 July 13, 1973 Nov. 15, 1973	(5) ₀ (5) ₀ 3.95	0	0		c
SH31	Mullett River	SE¼ SE¼ sec.10, T.15 N., R.20 E., Sheboygan County, at bridge on State Highway 23, at Greenbush, Wis.	50.8	July 18, 1972 July 13, 1973 Aug. 20, 1973	1.61 1.56 10.2	0.21	0.05		c
SH32	Mullett River tributary	SE¼ SE¼ sec.10, T.15 N., R.20 E., Sheboygan County, at State Highway 22, at Greenbush, Wis.	1.52						
SH32	Mullett River	SE¼ NE¼ sec.1, T.15 N., R.20 E., Sheboygan County, at bridge on County Trunk P, at Glenbeulah, Wis.	55.7	Oct. 4, 1968 July 18, 1972 July 13, 1973 Aug. 20, 1973	0.80 1.90 1.65 12.5	0.22	0.06		c
SH37	Mullett River	SE¼ SW¼ sec.27, T.15 N., R.21 E., Sheboygan County, at bridge on County Trunk PP, 1.0 mile south of State Highway 23 in Plymouth, Wis.	85.0	Oct. 3, 1968 July 18, 1972 Aug. 11, 1973 Aug. 20, 1973	8.72 12.7 21.4 31.2	2.8	0.93		c
SH38	Mullett River	NW¼ SE¼ sec.35, T.15 N., R.22 E., Sheboygan County, at bridge on County Trunk PP, on southwest side of Sheboygan Falls, Wis.	108	July 19, 1972 July 11, 1973 Aug. 21, 1973	15.0 23.4 36.0	3.0	0.98		c

TABLE 22.--Sheboygan River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)(ft ³ /s)	
SH40	Mullett River tributary	NE¼ SE¼ sec.26, T.15 N., R.21 E., Sheboygan County, at La Graves trailer park septic tank, just west of R.R. crossing of State Highway 57, 1.0 mile east of Plymouth, Wis.	0.64						
						(3)	(3)		
SH41	Mullett River tributary	SW¼ SW¼ sec.26, T.15 N., R.21 E., Sheboygan County, at culvert under County Trunk PP, 1.5 miles southeast of Plymouth, Wis.	1.33	July 19, 1972	0.19				
				July 11, 1973	0.47				
				Aug. 20, 1973	0.04				
					(2)0	0	0		c
SH42	Onion River	NE¼ SE¼ sec.25, T.15 N., R.21 E., Sheboygan County, at Gilson Mfg. Company, just northwest of the junction of State Highway 57 and County Trunk PP and 2.5 miles southeast of Plymouth, Wis.	18.2	July 18, 1972					
					(4)9.36	6.0	4.4		b
				July 20, 1972					
				July 11, 1973	10.7				
				Aug. 20, 1973	14.0				
				Nov. 13, 1973	18.6				
			24.3						
	Onion River	SW¼ SW¼ sec.13, T.14 N., R.21 E., Sheboygan County, at sewage treat- ment plant and 1.0 mile east of Waldo, Wis.							
SH43	Onion River	NW¼ NW¼ sec.31, T.14 N., R.22 E., Sheboygan County, at bridge on County Trunk I, at Hingham, Wis.	33.7	July 20, 1972	6.77	4.2	3.0		c
				July 11, 1973	8.35				
				Aug. 21, 1973	7.03				

TABLE 22.--Sheboygan River basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)(ft ³ /s)	
SH45	Onion River	NE¼ SE¼ sec.26, T.14 N., R.22 E., Sheboygan County, at bridge on County Trunk OO, just east of Gibbsville, Wis.	79.5	July 20, 1972 July 12, 1973 Aug. 21, 1973	20.6 11.3 13.0	5.4	3.3		c
SH46	Onion River	SW¼ NW¼ sec.12, T.14 N., R.22 E., Sheboygan County, at country road bridge, and 2.3 miles south of Sheboygan Falls, Wis.	91.8	July 20, 1972 July 12, 1973 Aug. 21, 1973	17.0 8.45 19.5	6.0	3.6		c
SH49	Sauk Creek	SW¼ SE¼ sec.21, T.12 N., R.22 E., Ozaukee County, at bridge on country road, 1.5 miles southwest of Belgium, Wis.	19.3	Aug. 10, 1973 Aug. 22, 1973 Nov. 13, 1973	0.60 0.60 4.80	0.04	0.01		c
SH50	Onion River tributary	NE¼ SE¼ sec.17, T.14 N., R.22 E., Sheboygan County, at Sheboygan County Hospital sewage treatment plant and 3.3 miles northwest of Gibbsville, Wis.	1.31						
	Onion River tributary	NE¼ SE¼ sec.16, T.14 N., R.21 E., Sheboygan County, at bridge on County Trunk I, and 2.6 miles northwest of Gibbsville, Wis.	1.92	July 20, 1972 July 12, 1973 Aug. 21, 1973	0.09 0.03 0.12	<0.01	<0.01		c
SH51	Black River	NE¼ NE¼ sec.1, T.13 N., R.22 E., Sheboygan County, 0.1 mile west of County Trunk A, and 0.5 mile north of Oostburg, Wis.	0.49	July 11, 1973 Aug. 21, 1973	(2)0 (2)0	0	0		c
SH52	Black River	NW¼ NE¼ sec.11, T.14 N., R.23 E., Sheboygan County, at bridge on country road, 2.9 miles southeast of State Highway 28 and U.S. High- way 141 intersection in Sheboygan, Wis.	15.7	Aug. 20, 1972 July 11, 1973 Aug. 21, 1973	(5)0 (5)0 (5)0	0	0		c

TABLE 22.--Sheboygan River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
SH53	Hartman's Creek	SE¼ NE¼ sec.10, T.14 N., R.22 E., Sheboygan County, at bridge on County Trunk KK, and 3.3 miles south of State Highway 28 and U.S. Highway 141 intersection in Sheboygan, Wis.	1.61	July 20, 1972 July 11, 1973 Aug. 21, 1973 Nov. 13, 1973	0.17 0.03 0.12 0.08	<0.01 <0.01		c
SH55	Barr Creek tributary	NE¼ SW¼ sec.24, T.13 N., R.23 E., Sheboygan County, at sewage treat- ment plant, and 0.7 mile northeast of Cedar Grove, Wis.	0.94	July 10, 1973 Aug. 22, 1973	0.44 0.22	(3) (3)		
SH56	Sucker Creek	NE¼ NE¼ sec.23, T.12 N., R.22 E., Ozaukee County, at bridge on County Trunk D, at Lake Church, Wis.	5.01					
	Sucker Creek	SE¼ SE¼ sec.23, T.12 N., R.22 E., Ozaukee County, at bridge on country road, 1.0 mile south of Lake Church, Wis.	6.25	July 17, 1972 July 10, 1973 Aug. 22, 1973	0.72 0.12 0.07	<0.01 <0.01		c
SH57	Lake Michigan tributary	NE¼ SE¼ sec.16, T.11 N., R.22 E., Ozaukee County, at intersection of State Highway 32 and country road, 0.5 mile northeast of Knellsville, Wis.	1.05					
	Lake Michigan tributary	SE¼ NE¼ sec.21, T.11 N., R.22 E., Ozaukee County, at country road bridge, 0.7 mile southeast of Knellsville, Wis.	1.72	July 17, 1972 July 10, 1973 Aug. 23, 1973	0.08 (5)0.04 0	<0.01 <0.01		c

(1) Based on 1970 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

(5) Negligible discharge - water ponded, unable to measure velocity.

(6) No estimate possible due to regulation upstream.

TABLE 23.--Sugar River basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
S3	Sugar River	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.34, T.5 N., R.8 E., Dane County, at bridge on State Highway 69 at Belleville, Wis.	175	June 1, 1972 July 31, 1972 Nov. 18, 1973	82.7 67.3 102	30	19		c
S6	Sugar River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.2 N., R.9 E., Green County, at town road, 1.3 miles southwest of Brodhead.	530			130	94		a
S7	Badger Mill Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.6 N., R.8 E., Dane County, at bridge on County Trunk PB, 1.0 mile east of Verona, Wis.	17.6	June 1, 1972 July 3, 1972 Nov. 9, 1973	0.13 0.08 0.33	<0.01 <0.01 <0.01			c
S9	Badger Mill Creek	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.22, T.6 N., R.8 E., Dane County, at town road, 1.0 mile south of Verona, Wis.	19.0	June 1, 1972 July 3, 1972 Nov. 9, 1973	2.43 1.28 5.86	0.06	0.01		c
S10	West Branch Sugar River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.6 N., R.6 E., Dane County, at bridge on town road, 1.1 miles south of Mt. Horeb, Wis.	1.09	June 2, 1972 July 31, 1972 Nov. 9, 1973	0.44 0.62 0.41	0.19	0.13		c
S11	Allen Creek	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.4 N., R.9 E., Green County, at bridge on County Trunk T, 0.8 mile south of Brooklyn, Wis.	10.9	June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	0.81 2.01 3.23	0.49	0.26		c
S13	Allen Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.4 N., R.10 E., Rock County, at sewage treatment plant, at Evansville, Wis.	28.0	June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	6.49 6.56 12.8	1.6	0.77		c
S14	Little Sugar River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.4 N., R.7 E., Green County, at bridge on town road, 300 feet east of junction of State Highway 39 and State High- way 69 at New Glarus, Wis.	22.9	June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	12.8 13.3 14.2	4.9	3.1		c

TABLE 23.---Sugar River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s)(ft ³ /s)		
S16	West Branch Little Sugar River	SW $\frac{1}{4}$ sec.8, T.3 N., R.8 E., Green County, at bridge on town road about 400 ft northwest of sewage treatment plant at Monticello, Wis.	33.7	June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	18.8 17.7 20.3	9.1	6.4	c
S18	Juda Branch	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.1 N., R.8 E., Green County, at bridge on State Highway 11 and 81, at Juda, Wis.	8.13	Aug. 27, 1968 Oct. 18, 1968 June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	1.74 2.03 3.32 2.80 5.19	0.79	0.39	c
S22	Swan Creek	SW $\frac{1}{4}$ sec.13, T.2 N., R.10 E., Rock County, at sewage treatment plant at Orfordville, Wis.	1.02	June 1, 1972 Aug. 1, 1972 Nov. 8, 1973	(5)0 (5)0 (5)0	0	0	c

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 24.--Lake Superior basin sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2} (ft ³ /s)	Q _{7,10} (ft ³ /s)	Q _{7,10} (ft ³ /s)	
LS12	Pokegama River	NE¼ SW¼ sec.10, T.48 N., R.14 W., Douglas County, at sewage treatment plant at Superior Village, Wis.	25.8	Oct. 17, 1972	0.96	0.09	0.02	c	c
				May 23, 1973	13.8				
	Pokegama River	NW¼ NW¼ sec.10, T.48 N., R.14 W., Douglas County, at bridge on town road, 0.25 mile south of State Highway 105 and 0.75 mile west of State Highway 35, South Superior, Wis.	26.3	Sept. 18, 1973	3.40				
LS19	Bear Creek	SW¼ SW¼ sec.9, T.48 N., R.13 W., Douglas County, at bridge on County Trunk 2 and 300 ft upstream of Douglas County Hospital and San- atorium sewage treatment plant, 4.3 miles southeast of South Super- ior, Wis.	3.56	Oct. 17, 1972	0.09	0.07	0.01	c	c
				May 23, 1973	4.04				
	Middle River	SE¼ NW¼ sec.21, T.47 N., R.12 W., Douglas County, at Middle River Sanatorium sewage treatment plant, 1.4 miles east of Hines, Wis.	31.6	Sept. 18, 1973	0.33				
LS20	Middle River	SE¼ NW¼ sec.21, T.47 N., R.12 W., Douglas County, at Middle River Sanatorium sewage treatment plant, 1.4 miles east of Hines, Wis.	31.6	Oct. 17, 1972	12.6	1.5	0.80	c	c
				May 23, 1973	20.9				
	Iron River	NW¼ NE¼ sec.7, T.47 N., R.8 W., Bayfield County, at country bridge and sewage treatment plant, at Iron River, Wis.	19.1	Sept. 18, 1973	5.09				
LS21	Iron River	NW¼ NE¼ sec.7, T.47 N., R.8 W., Bayfield County, at country bridge and sewage treatment plant, at Iron River, Wis.	19.1	Oct. 17, 1972	16.8	5.8	4.4	c	c
				May 23, 1973	19.3				
	Whittlesey Creek tributary	SW¼ NW¼ sec.35, T.48 N., R.5 W., Bayfield County, just below con- fluence of two tributaries, at country road 0.3 mile south of Ondassagon School, and 4.0 miles east of Ashland, Wis.	0.94	Sept. 18, 1973	10.8				
LS26	Whittlesey Creek tributary	SW¼ NW¼ sec.35, T.48 N., R.5 W., Bayfield County, just below con- fluence of two tributaries, at country road 0.3 mile south of Ondassagon School, and 4.0 miles east of Ashland, Wis.	0.94	Oct. 18, 1972	0.51	0.27	0.20	c	c
				May 22, 1973	0.74				
				Sept. 18, 1973	0.56				

TABLE 24.--Lake Superior basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow characteristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LS33	Bad River	NW¼ NE¼ sec.6, T.44 N., R.2 W., Ashland County, at State Highway 13, at Mellen, Wis.	105	Aug. 15, 1972 Oct. 19, 1972 May 22, 1973 Sept. 19, 1973	(4)59.6 77.4 96.1 16.2	13	7.9	b	
LS36	Alder Creek tributary	NW¼ NW¼ sec.2, T.45 N., R.1 E., Iron County, on road past sewage lagoon and 1.0 mile northwest of Iron Belt, Wis.	1.24	Aug. 15, 1972 Oct. 18, 1972 May 21, 1973 Sept. 19, 1973	0.96 0.79 1.78 0.86	0.13	0.07	c	
LS37	Vaughn Creek	SE¼ NW¼ sec.6, T.46 N., R.1 E., Iron County, at bridge on State Highway 122 at Saxon, Wis.	1.11	Aug. 15, 1972 Oct. 19, 1972 May 22, 1973 Sept. 19, 1973	(5) ₀ (5) ₀ (5) ₀ 0.16 (5) ₀	0	0	c	
LS39	Montreal River	NW¼ SE¼ sec.24, T.46 N., R.2 E., Iron County, at Aurora Street bridge between Hurley, Wis., and Ironwood, Mich.	63.0			4.7	2.2	a	
LS41	West Fork Montreal River	NE¼ SW¼ sec.27, T.46 N., R.2 E., Iron County, at sewage treatment plant and 0.1 mile downstream of State Highway 77 bridge at Montreal, Wis.	78.5	Aug. 14, 1972 Oct. 19, 1972 May 21, 1973 Sept. 19, 1973	84.1 92.4 93.5 138	4.8	2.7	c	
LS42	West Fork Montreal River tributary	NE¼ NW¼ sec.5, T.45 N., R.2 E., Iron County, at sewage treatment plant at Pence, Wis.	0.14						
	West Fork Montreal River	SE¼ NE¼ sec.5, T.45 N., R.2 E., Iron County, at country road 0.75 mile southeast of Pence, Wis.	0.53	Oct. 19, 1973 May 21, 1973 Aug. 14, 1972 Sept. 19, 1973	(2) ₀ (2) ₀ 2.32 (2) ₀ (2) ₀	0	0	c	

(1) Based on 1966 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(4) Additional discharge measurements are available.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 25.--Trempealeau-Buffalo River basins sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
BT3	Buffalo River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.24 N., R.7 W., Trempealeau County, at bridge on County Trunk O, and 1.3 miles west of Osseo, Wis.	73.7	Aug. 9, 1972 June 25, 1973 Sept. 12, 1973	50.3 77.9 40.0	23	17		c
BT4	Buffalo River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.24 N., R.8 W., Trempealeau County, at footbridge in city park at Strum, Wis.	124	Aug. 9, 1972 June 26, 1973 Sept. 12, 1973	77.9 139 80.5	35	24		c
BT6	Buffalo River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.24 N., R.9 W., Trempealeau County, at bridge on State Highway 93 at Elva, Wis.	165	Aug. 9, 1972 June 26, 1973 Sept. 13, 1973	96.4 204 112	41	25		c
BT8	Buffalo River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.24 N., R.11 W., Buffalo County, at sewage treatment plant, 0.5 mile downstream of County Trunk H bridge, at Mondovi, Wis.	238	Aug. 9, 1972 June 26, 1973 Sept. 12, 1973	138 278 164	61	40		c
BT13	Cochrane Ditch	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.20 N., R.12 W., Buffalo County, at sewage treatment plant near southwest corporate limits of Cochrane, Wis.	8.66						
	Cochrane Ditch	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.20 N., R.12 W., Buffalo County, at country road bridge, 0.5 mile south of Cochrane, Wis.	8.87	Aug. 9, 1972 June 26, 1973 Sept. 12, 1973	9.59 8.72 7.58	4.4	3.6		c
BT15	Trempealeau River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.22 N., R.5 W., Jackson County, at State Highway 95 bridge, and at Hixton, Wis.	58.3	Aug. 10, 1972 June 26, 1973 Sept. 12, 1973	26.8 54.2 39.5	14	9.6		c
BT16	Trempealeau River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.21 N., R.6 W., Jackson County, at County Trunk P, 0.4 mile north of Taylor, Wis.	110	Aug. 10, 1972 June 27, 1973 Sept. 12, 1973	(4) 52.8 124 74.5	33	24		b

TABLE 25.--Trempealeau-Buffalo River basins sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
BT18	Trempealeau River	NW¼ sec.16, T.21 N., R.7 W., Trempealeau County, at sewage treatment plant at Blair, Wis.	176	Aug. 10, 1972 Sept. 12, 1973 Jan. 9, 1974	84.1 108 85.0	49	36		c
BT19	Trempealeau River	SE¼ NW¼ sec.23, T.22 N., R.8 W., Trempealeau County, at U.S. High- way 53 bridge at Whitehall, Wis.	317	Aug. 10, 1972 June 27, 1972 Sept. 12, 1973	159 391 243	85	58		c
BT22	Trempealeau River	NW¼ SW¼ sec.32, T.21 N., R.9 W., Trempealeau County, at State Highways 93 and 95 in Arcadia, Wis.	552			180	130		a
BT24	Pigeon Creek	SW¼ SE¼ sec.34, T.23 N., R.7 W., Trempealeau County, 300 feet down- stream of dam in Pigeon Falls, Wis.	58.4	Aug. 10, 1972 June 27, 1973 Sept. 12, 1973	31.3 77.1 44.1	17	12		c
BT25	Pigeon Creek	NE¼ NW¼ sec.3, T.22 N., R.7 W., Trempealeau County, at sewage treatment plant, and 0.6 mile southeast of Pigeon Falls, Wis.	60.3						
	Elk Creek	SE¼ NW¼ sec.25, T.22 N., R.9 W., Trempealeau County, at State Highway 93 and 121 bridge in Independence, Wis.	101	Aug. 10, 1972 June 27, 1973 Sept. 12, 1973	53.0 116 75.1	31	22		c

(1) Based on 1972 report by Wisconsin Department of Natural Resources.

(4) Additional discharge measurements are available.

TABLE 26.--Twin-Kewaunee River basins and Door County sewage-treatment-plant locations and low-flow characteristics.

DNR site number (1)	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
TK5	West Twin River	SW $\frac{1}{2}$ NE $\frac{1}{4}$ sec.29, T.20 N., R.24 E., Manitowoc County, at County Trunk B, 2.9 miles northeast of Rockwood, Wis.	161	Oct. 3, 1968 Oct. 10, 1972 Aug. 2, 1973	16.7 33.1 24.7		11	8.5	c
TK6	Neshota River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.22 N., R.22 E., Brown County, at bridge on River Road, 1.4 miles northeast of Denmark, Wis.	34.5	Oct. 4, 1968 July 19, 1972 Oct. 11, 1972 Aug. 2, 1973	2.50 1.26 5.71 2.42		0.74	0.47	c
	Neshota River tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.22 N., R.22 E., Brown County, at sewage treatment plant, and at Denmark, Wis.	1.01						
TK7	West Twin River tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.7, T.20 N., R.23 E., Manitowoc County, at bridge on County Trunk H, at Kellnersville, Wis.	2.25	Oct. 11, 1972 Aug. 2, 1973	(2) 0 (2) 0	0	0		c
TK8	West Twin River tributary	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.21 N., R.22 E., Manitowoc County, at bridge on County Trunk A, at Maribel, Wis.	0.82	Oct. 11, 1972 Aug. 2, 1973	(2) 0 (2) 0	0	0		c
TK9	West Twin River tributary	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.20 N., R.23 E., Manitowoc County, at culvert on country road, and 1.4 miles north-east of Rockwood, Wis.	4.80	Oct. 10, 1972 July 31, 1973 Nov. 14, 1973	1.39 1.10 1.36	0.64	0.50		c
TK10	West Twin River tributary	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.20 N., R.23 E., Manitowoc County, at sewage treatment plant, and 0.9 mile east of Francis Creek, Wis.	0.64						
	West Twin River tributary	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.20 N., R.23 E., Manitowoc County, at culvert on County Trunk Q, and 2.0 miles east of Francis Creek, Wis.	2.45	July 19, 1972 Oct. 11, 1972 July 31, 1973	0.51 0.93 0.42	0.22	0.15		c

TABLE 26.--Twin-Kewaunee River basins and Door County sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
TK12	East Twin River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.22 N., R.24 E., Kewaunee County, at bridge on country road, and 1.2 miles north- east of Tisch Mills, Wis.	50.2	Oct. 11, 1972 Aug. 2, 1973 Nov. 14, 1973	18.6 10.1 19.9	2.4	1.4		c
TK14	East Twin River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.20 N., R.24 E., Manitowoc County, at State Highway 147, at Mishicot, Wis.	109	July 19, 1972 Oct. 11, 1972 July 31, 1973 Nov. 14, 1973	(4) 14.5 37.6 15.8 44.2	6.1	3.9		b
	East Twin River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.20 N., R.24 E., Manitowoc County, at sewage treat- ment plant, at Mishicot, Wis.	111						
TK17	Kewaunee River	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.23 N., R.24 E., Kewaunee County, at County Trunk F, 2.3 miles west of Kewaunee, Wis.	129			9.3	6.1		a
	Kewaunee River	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.23 N., R.25 E., Kewaunee County, at sewage treatment plant, at Kewaunee, Wis.	137						
TK18	Luxemburg Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.24 N., R.23 E., Kewaunee County, at bridge on country road, 0.7 mile northeast of Luxemburg, Wis.	2.36	July 19, 1972 Oct. 11, 1972 Oct. 18, 1972 Aug. 1, 1973	0.20 0.83 0.53 0.39	0.10	0.06		c
TK19	Casco Creek	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.24 N., R.24 E., Kewaunee County, at bridge on County Trunk C, at Casco, Wis.	10.3	July 19, 1972 Oct. 12, 1972 Aug. 1, 1973	3.62 5.99 3.83	0.78	0.42		c
TK25	Maple Creek	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.28 N., R.27 E., Door County, at country road, 1.0 mile south of Valmy, Wis.	6.75	(2) 0 Oct. 2, 1968 Oct. 13, 1972 Aug. 1, 1973 Nov. 14, 1973	2.13 0.61 (2) 0	0	0		c

TABLE 26.--Twin-Kewaunee River basins and Door County sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s)(ft ³ /s)		
TK27	Ahnapee River	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.26 N., R.25 E., Door County, at County Trunk J, 0.3 mile west of Forestville, Wis.	32.3	Oct. 3, 1968	5.70	2.4	1.3	c
				July 20, 1972	6.22			
				Oct. 12, 1972	25.2			
				Aug. 1, 1973	14.0			
TK29	Lake Michigan tributary	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.24 N., R.25 E., Kewaunee County, at bridge on country road, and 1.0 mile east of Alaska, Wis.	1.53	Oct. 12, 1972	0.74	<0.01		c
				Aug. 1, 1973	0.03			
				Nov. 14, 1973	0.34			

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(4) Additional discharge measurements are available.

TABLE 27.--Lower Wisconsin River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow characteristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LW5	Wisconsin River	SE¼ NW¼ sec.1, T.8 N., R.1 W., Grant County, on left bank at bridge on State Highway 80, 0.5 mile upstream from Eagle Mill Creek and 1.0 mile north of Muscoda, Wis.	10300					3700 2800	a
LW8	North Branch Duck Creek	NE¼ NW¼ sec.6, T.12 N., R.12 E., Columbia County, at bridge on town road, 0.1 mile downstream of sewage treatment plant and 0.6 mile west of Cambria, Wis.	8.49	July 5, 1972 June 25, 1973	(5) ₀ 8.50			<0.01 <0.01	c
LW9	Duck Creek	NE¼ NW¼ sec.21, T.12 N., R.10 E., Columbia County, at bridge in park, at Wyocena, Wis.	69.9	July 5, 1972 June 25, 1973 Aug. 21, 1973	20.7 43.3 35.3		16	13	c
LW13	Rocky Run tributary	SE¼ NE¼ sec.1, T.11 N., R.10 E., Columbia County, at sewage treatment plant, 0.5 mile northwest of Rio, Wis.	1.72	July 5, 1972 June 25, 1973 Aug. 21, 1973	(2) ₀ (2) ₀ 5.57		0	0	c
LW14	Rowan Creek	NE¼ SW¼ sec.35, T.11 N., R.9 E., Columbia County, at bridge on U.S. Highway 51, in Poynette, Wis.	10.1				3.6	2.8	b
LW17	Spring Creek	SE¼ NE¼ sec.27, T.10 N., R.8 E., Columbia County, at bridge on town road in Lodi, Wis.	37.0				16	15	b
LW18	Blums Creek	SW¼ SW¼ sec.16, T.9 N., R.7 E., Dane County, at bridge on town road in Roxbury, Wis.	9.73	July 5, 1972 June 25, 1973 Aug. 21, 1973	0.03 0.88 0.90		0.01	<0.01	c

TABLE 27.--Lower Wisconsin basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
LW23	Honey Creek tributary	SE¼ SE¼ sec.5, T.9 N., R.4 E., Sauk County, at sewage treatment plant about 600 feet downstream of State Highway 23 bridge in Plain, Wis.	6.68	July 7, 1972 June 26, 1973 Aug. 22, 1973	0.69 1.61 1.38	0.56	0.41		c
LW27	Black Earth Creek	SW¼ NW¼ sec.3, T.7 N., R.7 E., Dane County, at bridge on County Trunk Highway KP, in Cross Plains, Wis.	26.1	July 7, 1972 June 25, 1973 July 27, 1973 Aug. 22, 1973 Dec. 12, 1973	7.63 19.6 19.6 14.8 15.3	5.8	4.3		c
LW28	Black Earth Creek	SE¼ SW¼ sec.25, T.8 N., R.6 E., Dane County, 100 ft upstream from unnamed tributary, 0.7 mile east of Black Earth, Wis.	45.6			17	13		a
	Black Earth Creek	SE¼ NW¼ sec.26, T.8 N., R.6 E., Dane County, at bridge on U.S. Highway 14 and State Highway 78, and 200 ft upstream of sewage treatment plant at Black Earth, Wis.	48.3						
LW30	Black Earth Creek	SW¼ SW¼ sec.9, T.8 N., R.6 E., Dane County, at bridge on Bridge Street, at Mazomanie, Wis.	99.0	July 7, 1972 June 26, 1973 July 27, 1973 Aug. 21, 1973 Dec. 12, 1973	28.0 76.8 67.0 60.7 56.8	23	18		c
LW45	Pine River	SW¼ SW¼ sec.6, T.12 N., R.1 E., Richland County, at bridge on State Highway 80, at Yuba, Wis.	27.2	July 6, 1972 Oct. 17, 1972 June 26, 1973 Aug. 22, 1973	5.27 12.9 19.8 14.9	2.8	1.8		c

TABLE 27.--Lower Wisconsin basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s) (ft ³ /s)	
LW47	Pine River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.21, T.10 N., R.1 E., Richland County, at sewage treat- ment plant, at Richland Center, Wis.	190	Oct. 18, 1972 June 27, 1973 Aug. 22, 1973	110 189 129	70	58		c
LW49	Pine River	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.10 N., R.1 E., Richland County, at bridge on County Trunk O, 2.5 miles south- east of Richland Center, Wis.	198	July 6, 1972 Oct. 18, 1972	(4) 94.0 131	76	66		b
	Pine River	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.10 N., R.1 E., Richland County, at sewage treat- ment plant outfall at County Home, near Richland Center, Wis.	202						
LW60	Blue River tributary	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.24, T.6 N., R.1 W., Grant County, at sewage treatment plant, in Montfort, Wis.	0.58	July 7, 1972 June 28, 1973 Aug. 23, 1973	0.55 1.26 1.12	0.36	0.26		c
LW62	Big Spring Branch	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.7 N., R.1 E., Iowa County, at sewage disposal pond, at Highland, Wis.	0.68	Aug. 23, 1973	0.30	(3)	(3)		
LW67	Saunders Creek	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.8 N., R.3 W., Crawford County, at sewage treat- ment plant, in Boscobel, Wis.	17.5	July 6, 1972 June 27, 1973 Aug. 23, 1973	4.88 13.9 12.5	3.4	2.4		c
LW71	Kickapoo River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.15 N., R.1 W., Monroe County, at bridge on State Highway 131 and 500 feet upstream of sewage treatment plant at Wilton, Wis.	34.9	Aug. 18, 1970 July 6, 1972 June 26, 1973	7.88 9.66 25.8	6.6	4.8		c

TABLE 27.---Lower Wisconsin basin sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10} (ft ³ /s) (ft ³ /s)	
LW72	Kickapoo River	SW¼ NW¼ sec.2, T.14 N., R.2 W., Vernon County, at bridge on State Highway 33, and 0.1 mile upstream of sewage treatment plant in Ontario, Wis.	116	Aug. 26, 1969 Sept. 29, 1969 Aug. 18, 1970 Dec. 7, 1972 June 26, 1973	34.0 55.4 29.2 45.5 86.0	28	21	c
LW73	Kickapoo River	SE¼ NW¼ sec.29, T.13 N., R.2 W., Vernon County, on left bank 10 ft upstream from bridge on State Highway 82, in LaFarge, 0.3 mile upstream from Otter Creek, and 1.0 mile downstream from powerplant.	266			76	60	a
LW82	Kickapoo River	NE¼ sec.28, T.10 N., R.4 W., Crawford County, on upstream side of State Highway 171 bridge 300 ft downstream from dam in Gays Mills and 3.3 miles downstream from Taintor Creek.	616			200	150	a
LW86	Morris Creek tributary	SW¼ SE¼ sec.28, T.16 N., R.2 W., Monroe County, at sewage treatment plant, 400 ft downstream of County Highway U bridge in Norwalk, Wis.	19.9	July 6, 1972 June 26, 1973 Aug. 23, 1973	4.98 8.82 19.2	2.8	1.8	c

(1) Based on 1966 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 28.--Upper Wisconsin River basin (Trip A) sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
								(ft ³ /s)	
								1400 750	a
UW8	Wisconsin River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.31 N., R.6 E., Lincoln County, on left bank 300 ft downstream from highway bridge at east end of Merrill and 0.5 mile downstream from Prairie River.	2780						
UW37	Wisconsin River tributary	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.43 N., R.10 E., Vilas County, just upstream from sewage treatment plant, and at Land O Lakes, Wis.	0.50	July 12, 1972 June 20, 1973	0.23 0.30			(3) (3)	
UW39	Townline Creek	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.38 N., R.10 E., Oneida County, at U.S. Highway 45, 0.8 mile north of Three Lakes, Wis.	3.26	July 13, 1972 Dec. 1, 1972 June 21, 1973 Aug. 30, 1973	(5) 0 2.61 0.48 (5) 0			0 0 0	c
UW41	Pelican River	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.36 N., R.9 E., Oneida County, at bridge on County Trunk G, at Rhinelander, Wis.	264	July 13, 1972 June 21, 1973 Aug. 30, 1973 Oct. 3, 1973	75.2 145 153 183			55 38	c
UW44	Tomahawk River	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.39 N., R.6 E., Oneida County, at bridge on State Highway 70, 1.8 miles west of Minocqua, Wis.	74.2	June 28, 1971 Oct. 11, 1971 July 11, 1972 June 20, 1973 Aug. 29, 1973	8.56 121 8.16 138 59.4			7.4 2.6	c
UW47	North Branch Prairie River	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.33 N., R.8 E., Lincoln County, at bridge on Axen Road, 2.2 miles north of Gleason, Wis.	39.6	Oct. 12, 1971 July 10, 1972 June 21, 1973 Aug. 28, 1973 Oct. 3, 1973	16.7 14.0 22.5 15.7 21.1			12 10	c

TABLE 28.--Upper Wisconsin River basin (Trip A) sewage-treatment-plant locations and low-flow characteristics---continued.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
UW67	Spring Brook	SE¼ NE¼ sec. 4, T. 30 N., R. 11 E., Langlade County, upstream from sewage treatment plant, and 2.1 miles southwest of Antigo, Wis.	60.0	July 10, 1972 June 19, 1973 Aug. 28, 1973	10.4 9.68 33.8	6.1	3.6	c
UW99	Plover River	SW¼ NW¼ sec. 31, T. 30 N., R. 11 E., Langlade County, at culvert on County Trunk HH, and 2.1 miles north of Aniwa, Wis.	3.64	July 10, 1972 June 19, 1973 Aug. 28, 1973	0.44 1.80 0.73	0.21	0.10	c

- (1) Based on 1970 report by Wisconsin Department of Natural Resources.
(3) Unable to define relationship, additional discharge measurements are required.
(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 29.--Upper Wisconsin River basin (Trip B) sewage-treatment-plant locations and low-flow characteristics.

DNR (1) site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s)		
UW13	Wisconsin River	NW¼ NE¼ sec.26, T.28 N., R.7 E., Marathon County, on left bank at Rothschild, 0.5 mile downstream from Rothschild Dam, 2.0 miles downstream from Eau Claire River, 5.0 miles upstream from Black Creek, and 5.5 miles south of bridge on State Highway 29, in Wausau, Wis.	4000			1500	1100	a
UW31	Wisconsin River	SW¼ sec.24, T.22 N., R.5 E., Wood County, at Centralia power- plant of Nekoosa-Edwards Paper Co., 1.6 miles downstream from C&NW RR bridge in Wisconsin Rapids, Wis.	5400			1800	1200	a
UW51	Sheep Ranch Creek	SW¼ NE¼ sec.27, T.33 N., R.2 E., Taylor County, at culvert on private road, at Rib Lake, Wis.	8.13	Sept. 6, 1972 July 11, 1973 Aug. 15, 1973	1.49 0.87 1.32	0.68	0.47	c
UW53	Rib River	NE¼ SW¼ sec.6, T.28 N., R.6 E., Marathon County, at bridge on State Highway 107, at Marathon, Wis.	366	Oct. 24, 1968 Aug. 27, 1969 June 22, 1973 Aug. 15, 1973 Oct. 2, 1973	96.4 27.5 109 55.2 92.6	31	20	c
UW55	Black Creek	SW¼ SE¼ sec.31, T.30 N., R.4 E., Marathon County, at bridge on State Highway 97, at Athens, Wis.	42.6	Sept. 6, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	6.02 2.77 2.82 1.50	0.24	0.03	c
UW58	Scotch Creek	SE¼ SW¼ sec.7, T.28 N., R.5 E., Marathon County, on town road, and 0.1 mile east of County Trunk High- way H in Edgar, Wis.	15.3					

TABLE 29.--Upper Wisconsin River basin (Trip B) sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
UW58	Scotch Creek	SE¼ SE¼ sec.7, T.28 N., R.5 E., Marathon County, at bridge on country road, 0.7 mile east of County Trunk H in Edgar, Wis.	16.9	Sept. 6, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	3.65 1.03 0.46 0.64	0.07	0.01	c
UW72	West Branch Big Eau Pleine River	NE¼ SE¼ sec.19, T.30 N., R.2 E., Taylor County, at bridge on town road, and 0.9 mile southeast of Stetsonville, Wis.	3.12					
	West Branch Big Eau Pleine River	SW¼ SW¼ sec.20, T.30 N., R.2 E., Taylor County, at bridge on country road, and 1.3 miles southeast of Stetsonville, Wis.	3.51	Sept. 6, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	(5) (2) (5) 0.01	0	0	c
UW76	Dill Creek	NW¼ SW¼ sec.13, T.28 N., R.1 E., Clark County, at bridge on County Trunk N, 0.9 mile west of State Highway 13 in Colby, Wis.	12.2	Sept. 7, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	(5) 0 0.32 0.32 0.78	<0.01	<0.01	c
UW77	Elm Brook	SE¼ SW¼ sec.31, T.29 N., R.2 E., Marathon County, at bridge on State Highway 29, in Abbotsford, Wis.	0.37	Sept. 7, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	0.18 0.03 <0.03 est. 0.06	0.01	<0.01	c
UW85	Big Eau Pleine River	NW¼ SW¼ sec.18, T.27 N., R.4 E., Marathon County, at bridge on State Highway 97, 1.2 miles north of Stratford, Wis.	229			2.25	0.72	a
UW88	Peplin Creek	SE¼ SW¼ sec.35, T.27 N., R.7 E., Marathon County, at bridge on country road, and 3.3 miles south- east of Mosinee, Wis.	6.42	July 11, 1972 Sept. 6, 1972 June 22, 1973 Aug. 15, 1973 Oct. 2, 1973	(5) (5) 0 0.02 (5) 0.02	0	0	c

TABLE 29.--Upper Wisconsin River basin (Trip B) sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
UW89	Little Eau Pleine River	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.27 N., R.1 E., Clark County, at sewage disposal lagoon, and 0.5 mile northwest of Unity, Wis.	7.48	Sept. 7, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	(5) ₀ (5) ₀ (5) ₀ 0.01 est.	0	0	0	c
UW91	Tributary to Little Eau Pleine River tributary	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.26 N., R.2 E., Marathon County, at bridge on County Trunk C, 0.6 mile east of Spencer, Wis.	1.09	Sept. 7, 1972 July 11, 1973 Aug. 15, 1973 Oct. 2, 1973	0.21 0.03 est. 0.02 est. 0.01	<0.01	<0.01	<0.01	c
UW98	Little Bear Creek	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.25 N., R.4 E., Wood County, at sewage disposal ponds, and 1.0 mile northeast of Auburndale, Wis.	1.46	July 11, 1972 Sept. 5, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	(5) ₀ (5) ₀ (5) ₀ (5) ₀ (5) ₀	0	0	0	c
UW100	Mill Creek	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.25 N., R.3 E., Wood County, at culvert on town road, and 1.5 miles south of post office in Marshfield, Wis.	1.99	July 11, 1972 Sept. 7, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	0.45 0.38 0.61 0.62 0.10	(6)	(6)	(6)	
	Mill Creek	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.25 N., R.3 E., Wood County, at sewage treatment plant, and 1.7 miles south of post office in Marshfield, Wis.	2.44						
UW102	Mill Creek tributary	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.24 N., R.5 E., Wood County, at bridge on country road, and 1.5 miles south of Milladore, Wis.	2.72	July 11, 1972 Sept. 5, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	(2) ₀ (2) ₀ (2) ₀ (2) ₀ (2) ₀	0	0	0	c

TABLE 29.--Upper Wisconsin River basin (Trip B) sewage-treatment-plant locations and low-flow characteristics---continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
UW103	Mill Creek tributary	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.24 N., R.6 E., Portage County, at sewage disposal ponds, and 0.5 mile south of Junction City, Wis.	1.32	July 10, 1972	(2)0	0	0	c
UW105	Wisconsin River tributary	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.23 N., R.6 E., Wood County, at sewage disposal pond, at Rudolph, Wis.	0.33	Sept. 5, 1972 July 10, 1973 Oct. 1, 1973	(2)0 (2)0 (2)0	0	0	c
UW108	Little Roche a Cri Creek	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.17 N., R.6 E., Adams County, just downstream of dam, at Friendship, Wis.	57.6	July 10, 1972 Sept. 5, 1972 June 22, 1973 Aug. 14, 1973 Oct. 1, 1973	38.0 32.3 68.8 35.4 28.4	20	18	c
UW109	Yellow River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.36, T.25 N., R.2 E., Wood County, at bridge on U.S. Highway 10, and 2.0 miles south of Bakerville, Wis.	102	Sept. 7, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	15.7 3.90 2.94 0.49	0.42	0.10	c
UW110	Yellow River	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.23 N., R.3 E., Wood County, at bridge on State Highways 13 and 73, and 1.5 miles northwest of Pittsville, Wis.	181	Sept. 7, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	26.7 6.49 5.80 5.02	1.1	0.31	c
UW111	Yellow River	SW $\frac{1}{4}$ sec.18, T.18 N., R.4 E., Juneau County, at powerplant of Wisconsin Power and Light Co., at Necedah, and 5.0 miles down- stream from Cranberry Creek.	526			34	8.7	a

TABLE 29.--Upper Wisconsin River basin (Trip B) sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
UW114	Hemlock Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.23 N., R.4 E., Wood County, just downstream from dam, at Vesper, Wis.	40.0	July 11, 1972 Sept. 5, 1972 July 10, 1973 Aug. 14, 1973 Oct. 1, 1973	0.10 1.22 0.68 0.31 0.05	<0.01 <0.01		c
UW116	Hemlock Creek	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.24 N., R.4 E., Wood County, at bridge on State Highway 186, and 0.5 mile east of Arpin, Wis.	5.52	July 11, 1972 Sept. 5, 1972 July 9, 1973 Aug. 14, 1973 Oct. 1, 1973	(5)0 (5)0 (5)0 (5)0 (5)0	0 0		c

- (1) Based on 1970 report by Wisconsin Department of Natural Resources.
 (2) Streambed is dry.
 (5) Negligible discharge - water ponded, unable to measure velocity.
 (6) No estimate possible due to regulation upstream.

TABLE 30.--Wolf River basin sewage-treatment-plant locations and low-flow characteristics.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
								(ft ³ /s)	
						670	460		a
W8	Wolf River	SE¼ sec.12, T.22 N., R.14 E., Waupaca County, at Pearl Street Bridge, at New London, Wis.	2240						
W13	Hunting River	SE¼ SE¼ sec.11, T.34 N., R.10 E., Langlade County, at culvert on country road, and 0.9 mile west of Elcho, Wis.	1.69	Aug. 2, 1972 June 19, 1973 July 15, 1973	0.42 2.31 5.82	0.32	0.26		c
W16	West Branch Wolf River	SE¼ NW¼ sec.20, T.29 N., R.14 E., Menominee County, at dam and power- plant at Neopit, Wis.	108	Aug. 2, 1972 July 10, 1973 Aug. 14, 1973	(4) 113 143 122	64	47		b
W18	West Branch Red River	NE¼ NE¼ sec.9, T.29 N., R.12 E., Shawano County, at County Trunk D, 0.3 mile north of Mattoon, Wis.	17.5	Oct. 19, 1965 Aug. 2, 1972 July 11, 1973 Aug. 14, 1973	23.2 14.6 19.4 11.3	7.5	5.0		c
W20	Duchess Creek	SW¼ NW¼ sec.8, T.27 N., R.17 E., Shawano County, at culvert on County Trunk H, 1.8 miles northwest of Cecil, Wis.	6.58	Aug. 2, 1972 July 10, 1973 Aug. 14, 1973	1.20 1.46 0.99	0.52	0.36		c
W21	Wolf River tributary	SW¼ NW¼ sec.13, T.26 N., R.15 E., Shawano County, at bridge on country road, 1.2 miles southeast of Shawano County Hospital, and 2.3 miles north- east of Belle Plaine, Wis.	6.22	Aug. 1, 1972 July 11, 1973 Aug. 15, 1973	(2) 0 (2) 0 (2) 0	0	0		c
W22	Shioc River	NE¼ SW¼ sec.7, T.24 N., R.17 E., Outagamie County, at State Highway 156, 0.8 mile west of Nichols, Wis.	92.0	Aug. 1, 1972 July 10, 1973 Aug. 14, 1973	(4) 2.62 7.66 5.57	0.44	0.13		b
W24	West Branch Shioc River	SW¼ SE¼ sec.8, T.26 N., R.17 E., Shawano County, 0.2 mile upstream from country road, and 0.3 mile southwest of Bonduel, Wis.	4.00	Aug. 2, 1972 July 10, 1973 Aug. 14, 1973	0.45 1.53 1.60	0.05	0.01		c

TABLE 30.--Wolf River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
W25	Black Creek	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.29, T.24 N., R.18 E., Outagamie County, at bridge on County Trunk G, 0.8 mile west of Seymour, Wis.	24.1	Aug. 13, 1969 Aug. 29, 1969 Aug. 1, 1972 July 10, 1973 Aug. 14, 1973	0.16 0.09 0.15 0.27 0.19	0.07	0.04		c
W26	Black Creek	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.23 N., R.17 E., Outagamie County, at State Highway 47, 0.3 mile north of Black Creek, Wis.	55.9	Aug. 1, 1972 July 10, 1973 Aug. 14, 1973	(4)0.11 2.78 0.70	0.42	0.23		b
W29	Bear Creek	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.22 N., R.16 E., Outagamie County, at State Highway 76, at Stephenville, Wis.	59.4	July 31, 1972 July 10, 1973 Aug. 13, 1973	(4)0.92 6.55 2.33	0.55	0.25		b
W31	Tributary to Bear Creek	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.22 N., R.17 E., Outagamie County, at bridge on country road, and 5.2 miles south of Black Creek, Wis.	2.19	Aug. 1, 1972 July 10, 1973 Aug. 14, 1973	(5)0 (2)0 (5)0	0	0		c
W32	Bear Creek	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.21 N., R.16 E., Outagamie County, at culvert on State Highway 76, at Greenville, Wis.	1.98	July 31, 1972 July 9, 1973 Aug. 13, 1973	(2)0 (2)0 (2)0	0	0		c
W34	Black Otter Creek	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.22 N., R.15 E., Outagamie County, at local road 0.2 mile north of U.S. Highway 45, northwest edge of Hortonville, Wis.	15.9	Aug. 12, 1969 Aug. 27, 1969 July 31, 1972 July 9, 1973 Aug. 14, 1973	1.25 0.48 0.84 1.75 0.82	0.26	0.10		c
W37	Embarrass River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.24, T.26 N., R.13 E., Shawano County, at sewage lagoon, and 0.7 mile east of Caroline, Wis.	264						
	Embarrass River	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.26 N., R.13 E., Shawano County, at town road, 0.9 mile east of Caroline, Wis.	265	Aug. 3, 1972 July 11, 1973 Aug. 15, 1973	(4)145 135 114	54	33		c

TABLE 30.--Wolf River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics		Accuracy level
						Q _{7,2}	Q _{7,10}	
						(ft ³ /s) (ft ³ /s)		
W39	Railroad Creek	NE½ NE¼ sec.7, T.28 N., R.11 E., Shawano County, at sewage treat- ment plant, at Birnamwood, Wis.	0.52	Aug. 2, 1972	1.44	0.40	0.20	c
	Railroad Creek	NE¼ SE¼ sec.18, T.28 N., R.11 E., Shawano County, at culvert on country road, and 1.7 miles south of Birnamwood, Wis.	3.17	July 11, 1973 Aug. 15, 1973	1.57 1.07			
W40	South Branch Embarrass River	NE¼ SW¼ sec.9, T.26 N., R.12 E., Shawano County, at U.S. Highway 45 bridge, at Tigerton, Wis.	94.8	Aug. 3, 1972 July 11, 1973 Aug. 15, 1973	52.1 56.8 77.7	23	14	c
W42	Tiger Creek	SW¼ NW¼ sec.15, T.27 N., R.11 E., Shawano County, at sewage treatment plant, at Wittenberg, Wis.	1.08	Aug. 3, 1972 July 11, 1973 Aug. 15, 1973	0.82 0.59 0.79	0.37	0.23	c
W43	North Branch Embarrass River	NW¼ NW¼ sec.6, T.27 N., R.13 E., Shawano County, at County Trunk D, 0.6 mile south of Bowler, Wis.	39.5			9.8	6.0	b
W46	Pigeon River	SE¼ SE¼ sec.23, T.25 N., R.14 E., Waupaca County, at footbridge, 0.1 mile downstream from Main Street Bridge, at Clintonville, Wis.	109	Aug. 11, 1969 Aug. 28, 1969 Aug. 1, 1972 July 12, 1973 Aug. 15, 1973	36.3 16.4 30.4 61.9 53.6	5.8	1.7	c
W47	North Branch Pigeon Creek	SW¼ NW¼ sec.1, T.25 N., R.13 E., Waupaca County, 0.4 mile upstream from bridge on U.S. Highway 45, at Marion sewage treatment plant.	20.4	July 12, 1973 Aug. 15, 1973	12.0 28.2	(3)	(3)	
W49	Bear Creek	SE¼ SW¼ sec.20, T.24 N., R.15 E., Outagamie County, at bridge on State Highway 76, and 0.7 mile east of Bear Creek, Wis.	16.3	Aug. 1, 1972 July 12, 1973 Aug. 15, 1973	0.27 2.72 0.53	0.03	0.01	c

TABLE 30.--Wolf River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
						(ft ³ /s) (ft ³ /s)			
W52	Little Wolf River	NE¼ sec.16, T.23 N., R.13 E., Waupaca County, at Lindsay Park, just downstream from sewage treat- ment plant, at Manawa, Wis.	314	Aug. 3, 1972 July 12, 1973 Aug. 16, 1973	137 195 182	64	33		c
W53	Flume Creek	NW¼ SW¼ sec.21, T.25 N., R.10 E., Portage County, at bridge on State Highway 66, at Portage, Wis.	16.0	Aug. 4, 1972 July 12, 1973 Aug. 15, 1973	4.62 8.35 8.68	3.4	2.6		c
W55	South Branch Little Wolf River	NW¼ SW¼ sec.35, T.24 N., R.11 E., Waupaca County, at Town Line Road bridge, at Iola, Wis.	33.6	Aug. 4, 1972 July 12, 1973 Aug. 15, 1973	17.3 17.1 26.8	14	11		c
W56	South Branch Little Wolf River	SW¼ SE¼ sec.15, T.23 N., R.11 E., Waupaca County, at County Trunk B bridge, at Scandinavia, Wis.	55.7	Aug. 4, 1972 July 12, 1973 Aug. 15, 1973	35.0 44.6 45.5	24	20		c
W58	Waupaca River	NW¼ NW¼ sec.1, T.21 N., R.12 E., Waupaca County, at town road, 4.7 miles southeast of Waupaca, Wis.	272			140	120		a
	Waupaca River	SE¼ NW¼ sec.4, T.21 N., R.13 E., Waupaca County, at bridge on State Highway 110, at Weyauwega, Wis.	282						
W59	Tomorrow River	SE¼ SE¼ sec.21, T.23 N., R.10 E., Portage County, at bridge on County Trunk V, at Amherst, Wis.	74.2	Aug. 4, 1972 July 12, 1973 Aug. 15, 1973	31.4 51.8 54.1	25	20		c
W62	Rat River tributary	SW¼ SE¼ sec.21, T.21 N., R.15 E., Outagamie County, at culvert on U.S. Highway 10, on west side of Dale, Wis.	2.17	July 31, 1972 July 9, 1973 Aug. 14, 1973	(2)0 (2)0 0.03	0	0		c
W63	Rat River tributary	SW¼ NE¼ sec.14, T.20 N., R.15 E., Winnebago County, at culvert on Loop Road, and 0.9 mile northwest of Winchester, Wis.	2.34	July 31, 1972 July 9, 1973 Aug. 14, 1973	(2)0 (2)0 (2)0	0	0		c

TABLE 30.--Wolf River basin sewage-treatment-plant locations and low-flow characteristics--continued.

DNR site number	Stream name	Site location	Drainage area (mi ²)	Date	Discharge (ft ³ /s)	Low-flow charac- teristics			Accuracy level
						Q _{7,2}	Q _{7,10}	(ft ³ /s)	
W67	Pine River	SE¼ NW¼ sec.7, T.19 N., R.13 E., Waushara County, at State Highway 49, at Poy Sippi, Wis.	86.4	Sept. 12, 1972 July 12, 1973 Aug. 14, 1973	71.5 102 83.4	33	26		c
W70	Humphrey Creek	NW¼ NW¼ sec.30, T.20 N., R.11 E., Waushara County, at bridge on County Trunk A, at Wild Rose, Wis.	27.1	Sept. 12, 1972 July 13, 1973 Aug. 15, 1973	8.20 12.7 14.5	2.1	1.4		c
W72	Willow Creek	SW¼ NW¼ sec.8, T.18 N., R.12 E., Waushara County, at bridge on County Trunk E, and 0.4 mile north of Redgranite, Wis.	71.7	Sept. 12, 1972 July 12, 1973 Aug. 14, 1973	50.3 89.5 83.1	40	34		c
W74	Arrowhead River	NE¼ SW¼ sec.20, T.20 N., R.16 E., Winnebago County, at bridge on County Trunk T, at Larsen, Wis.	7.64	July 31, 1972 July 9, 1973 Aug. 14, 1973	(5)0 (5)0 0.20	0	0		c
W75	Arrowhead River tributary	NW¼ NW¼ sec.23, T.20 N., R.16 E., Winnebago County, at bridge on country road, and 3.0 miles east of Larsen, Wis.	1.07	July 31, 1972 July 9, 1973 Aug. 14, 1973	(2)0 (2)0 (2)0	0	0		c
W77	Rattlesnake Creek	SE¼ SE¼ sec.16, T.19 N., R.11 E., Waushara County, below Lake Morris dam, at Mount Morris, Wis.	20.4	Sept. 12, 1972 July 13, 1973 Aug. 16, 1973	16.1 15.4 21.2	10	8.8		c

(1) Based on 1971 report by Wisconsin Department of Natural Resources.

(2) Streambed is dry.

(3) Unable to define relationship, additional discharge measurements are required.

(4) Additional discharge measurements are available.

(5) Negligible discharge - water ponded, unable to measure velocity.

TABLE 31.--Accuracy of estimated low-flow characteristics for several methods.

Type of site	Type of data	Analytical method to determine $Q_{7,10}$	Standard error of 10-year low flow (SE_{10}) (percent)	Accuracy level
gaging station	10 years recorded streamflow	frequency analysis	(1) 18	a
low-flow, partial-record, station (265 sites)	8 to 12 base-flow discharge measurements	correlation analysis	(2) 29	b
low-flow, partial-record station (265 sites)	3 base-flow discharge measurements during 1961-73 period	correlation analysis	(3) 45 (+55, -35)	(4)
low-flow, partial-record station (56 sites in northern Wisconsin)	3 base-flow discharge measurements during 1961-73 period	correlation analysis	(3) 54 (+69, -41)	(4)
low-flow, partial-record station (56 sites in northern Wisconsin)	3 base-flow discharge measurements during 1972-73 period	correlation analysis	(3) 77 (+104, -51)	(4)
sewage-treatment-plant sites	3 base-flow discharge measurements made during 1972-73 period	correlation analysis	(3) 70 (+92, -48)	c

- (1) SE_{10} based on method by Hardison, 1969.
- (2) SE_{10} based on method by Hardison, 1972.
- (3) The positive and negative deviations of the SE_{10} is not uniform above 40 percent. Therefore, for values of SE_{10} greater than 40 percent the positive and negative values are shown in parenthesis.
- (4) Not applicable for the report.

TABLE 32.--Standard error of estimate for the 10-year low-flow event (SE_{10}) for major Wisconsin basins at low-flow, partial-record stations.

Basin	SE_{10} in percent
Bad Axe River	10
Baraboo River	11
Black River	38
Lower Chippewa River	25
Upper Chippewa River	40
Duck - Pensaukee Rivers	52
Fox River (Illinois)	38
Lower Fox River	44
Upper Fox River	20
Grant, Platte and Galena Rivers	21
La Crosse River	5
Lemonweir River	15
Manitowoc River	48
Menominee River	28
Milwaukee River	40
Oconto River	17
Pecatonica River	16
Peshtigo River	17
Lower Rock River	36
Upper Rock River	71
Root River	144
Sheboygan River	48
St. Croix River	28
Sugar River	12
Lake Superior	35
Trempealeau - Buffalo Rivers	13
Twin - Kewaunee Rivers and Door County	Insufficient data
Lower Wisconsin River	11
Upper Wisconsin River	33
Wolf River	23
Average (weighted)	29

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