E. Hennich

1974

Water Resources Data for Wisconsin

Part 1. Surface Water Records

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Wisconsin
and with other agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
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DECEMBER

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1974

JANUARY

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FEBRUARY

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MARCH

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31						

APRIL

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MAY

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JUNE

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JULY

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AUGUST

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

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Water Resources Data for Wisconsin

Part 1. Surface Water Records

Part 2. Water Quality Records

UNITED STATES
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Prepared in cooperation with the State of Wisconsin
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Prepared in cooperation with

Wisconsin Department of Natural Resources
Wisconsin Department of Transportation
The University of Wisconsin-Extension
Geological and Natural History Survey
Southeastern Wisconsin Regional Planning Commission
Douglas County
City of Madison
City of Middleton
Corps of Engineers, U.S. Army

Copies of this report may be obtained from
District Chief, Water Resources Division
U. S. Geological Survey
1815 University Avenue
Madison, Wisconsin 53706

1975

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(Letters after station name designate type of data: (c), chemical; (t), water temperature; (s), sediment)

WATER RESOURCES DATA FOR WISCONSIN, 1974

Part 1. Surface-Water Records
Part 2. Water-Quality Records

INTRODUCTION

Water resources data for the 1974 water year for Wisconsin including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical, biological, and physical characteristics of surface water, are given in this report. In Part 1, records are included for 146 gaging stations of which 104 are streamflow discharge stations and 42 are reservoir or lake stations; also are included records for 92 low-flow partial-record stations, 134 crest-stage partial-record stations, and 20 miscellaneous sites. Locations of gaging stations are shown in figure 1. In Part 2, water-quality data on chemical, physical, and biological characteristics of surface water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. Records are given for 213 sampling stations of which 10 are continuous record stations, 134 are partial-record stations, and 69 are miscellaneous sites. Locations of water-quality stations are shown in figure 6. A few pertinent stations (not included above) in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of C.L.R. Holt, Jr., district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Wisconsin.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1965 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 18 and 23.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wisconsin have had cooperative agreements for the systematic collection of streamflow records since 1913, and for water-quality records since 1955. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Wisconsin Department of Natural Resources, L. P. Voigt, secretary.

Wisconsin Department of Transportation, N. M. Clapp, secretary, and W. A. Kline, chief bridge engineer.

The University of Wisconsin-Extension, Geological and Natural History Survey, M. E. Ostrom, state geologist and director.

Southeastern Wisconsin Regional Planning Commission, K. W. Bauer, executive director.

City of Madison, A. E. Milke, city engineer.

City of Middleton, W. R. Bauman, mayor.

Assistance in the form of funds or services was given by:

Department of the Army, Corps of Engineers

St. Paul District	11 gaging stations
Rock Island District	7 gaging stations
Chicago District	4 gaging stations

Department of the Army, Corps of Engineers, St. Paul District - 3 water-quality stations.

The following organizations aided in collecting records:

Wisconsin Valley Improvement Co.
Lake Superior District Power Co.
Wisconsin-Michigan Power Co.
Wisconsin Public Service Corp.
Northern States Power Co.
Dairyland Power Cooperative
Wisconsin Power and Light Co.
Nekoosa-Edwards Paper Co.
Wisconsin River Power Co.
Milwaukee County Park Commission

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 27.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumpted into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as numbers of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic metre), and periphyton and benthic organisms in g/m^2 (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2.445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Contents herein is that of a reservoir or lake and unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Continuing record station pertaining to water quality records is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.

2. When water temperature records include observations taken once or more times daily.

3. When sediment discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (CFS, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage", although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (UG/G, ug/g) is a unit expressing the concentration of chemical constituents as the dry weight (micrograms) of constituent per unit dry weight (gram) of solid material, usually bottom deposits.

Micrograms per kilogram (UG/KG, ug/kg) is a unit expressing the concentration of chemical constituents as the dry weight (micrograms) of constituent per unit dry weight (kilogram) of solid material, usually bottom deposits.

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Milligrams per kilogram (MG/KG, mg/kg) is a unit expressing the concentration of chemical constituents as the dry weight milligrams of constituent per unit dry weight (kilogram) of solid material, usually bottom deposits.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p. 7. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 7.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres (l).

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling.

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminolgy. The classification is as follows:

Classification		Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distribution given in this report is not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is sub-

jected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are topography, geology, soil type, land cover, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoit. See also table for converting English Units to International Units on p. 27.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from man-made changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Tritium network is tritium-sampling stations established to provide baseline data on the occurrence of tritium in the Nation's surface waters. Tritium data are obtained at a number of precipitation stations.

Tritium concentrations are reported in terms of tritium units (TU); one TU is equal to 3.2436 picocuries per litre.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 04087000, which appears just to the left of the station name includes the 2-digit part number "04" plus the 6-digit downstream order number "087000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 4 (St. Lawrence River basin) and Part 5 (Upper Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage

or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to

datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph head "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as

follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton rating tables are published for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated

only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites are given in four tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, the third is a table of discharge measurements at miscellaneous sites, and the fourth is a table of measured discharges at low-flow investigation sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Wisconsin for the period October 1960 to September 1965 are in Water-Supply Papers 1911, 1914 and 1915.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Wisconsin are compiled in Water-Supply Papers 1307 and 1308 through September 1950, and in 1727 and 1728 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or charcteristics such as hardness, sodium-adsorption-ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton and particulate inorganic and amorphous matter present. Microbiological information includes quantitative indentification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3, p. 22.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 3 and table for converting English Units to SI Units, p. 27.)

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

The daily chemical quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at one or more verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Wisconsin are listed below.

Parts 3 and 4

Water year	WSP No.	Water year	WSP No.	Water year	WSP No.	Water year	WSP No.
1941	942	1948	1132	1955	1400	1962	1942
1942	950	1949	1162	1956	1450	1963	1948
1943	970	1950	1186	1957	1520	1964	1955
1944	1022	1951	1197	1958	1571	1965	1962
1945	1030	1952	1250	1959	1642	1966	1992
1946	1050	1953	1290	1960	1742	1967	2012
1947	1102	1954	1350	1961	1882		

Parts 5 and 6

1941	942	1948	1132	1955	1401	1962	1943
1942	950	1949	1162	1956	1451	1963	1949
1943	970	1950	1187	1957	1521	1964	1956
1944	1022	1951	1198	1958	1572	1965	1963
1945	1030	1952	1251	1959	1643	1966	1993
1946	1050	1953	1291	1960	1743	1967	2013
1947	1102	1954	1351	1961	1883	1968	2094

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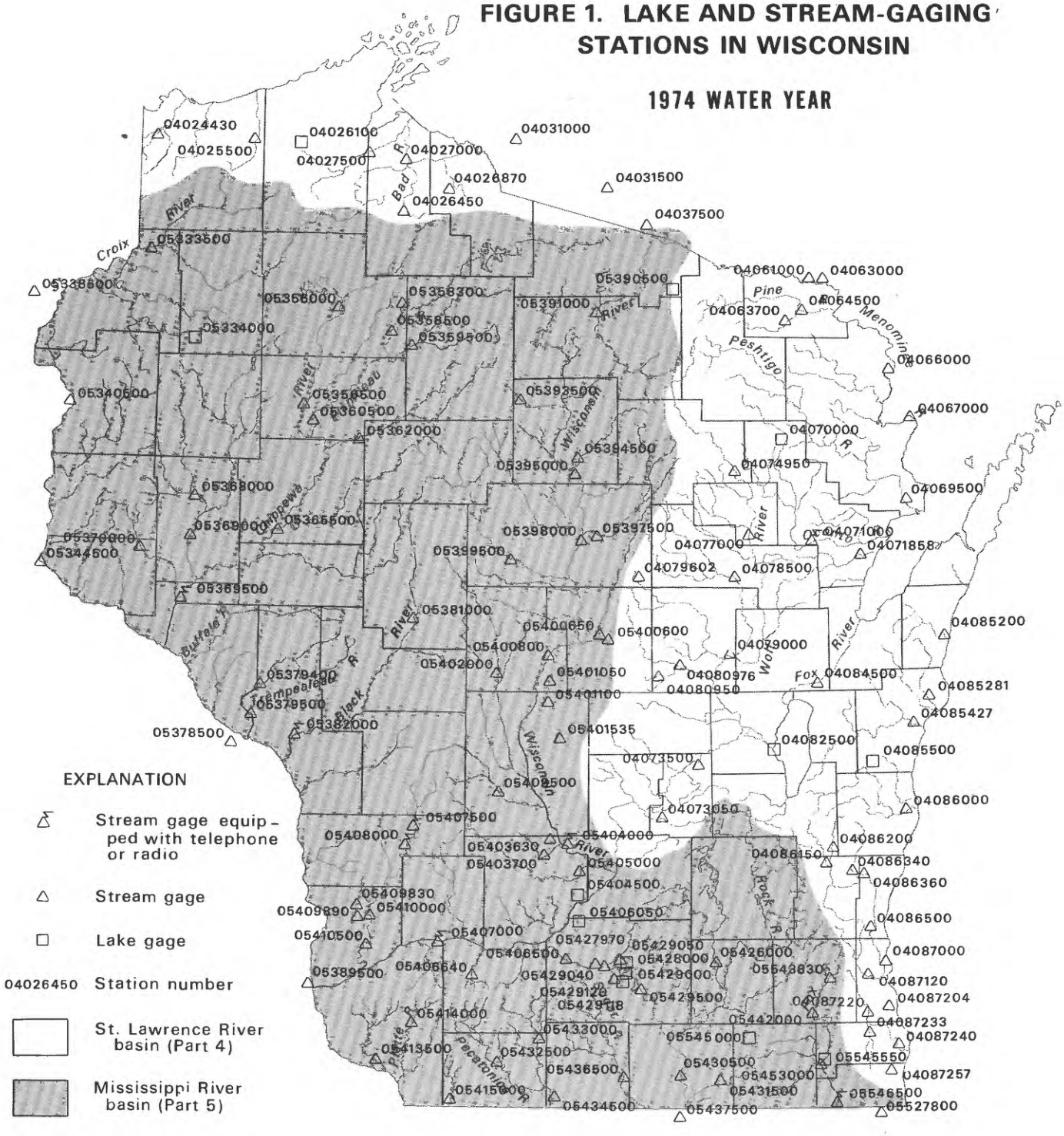
Table 4.--Factors for Converting English Units to International System (SI) Units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
cubic feet (ft^3)	.02832	cubic metres (m^3)
cfs-day [(ft^3/s)-d]	2447	cubic metres (m^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	Flow	
cubic feet per second (ft^3/s)	.02832	cubic metres per second (m^3/s)
million gallons per day (mgd)	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

FIGURE 1. LAKE AND STREAM-GAGING STATIONS IN WISCONSIN

1974 WATER YEAR



PART 1. SURFACE WATER RECORDS

HYDROLOGIC CONDITIONS

Annual runoff in northcentral and northeast Wisconsin for the 1974 water year was below normal. Runoff was above normal in the remainder of the State, exceeding 200 percent of normal in the extreme southeast (see figure 2). Annual runoff for Turtle Creek near Clinton was 250 percent of average, the highest in the 35 years of record at the site and the same as the 1973 annual runoff.

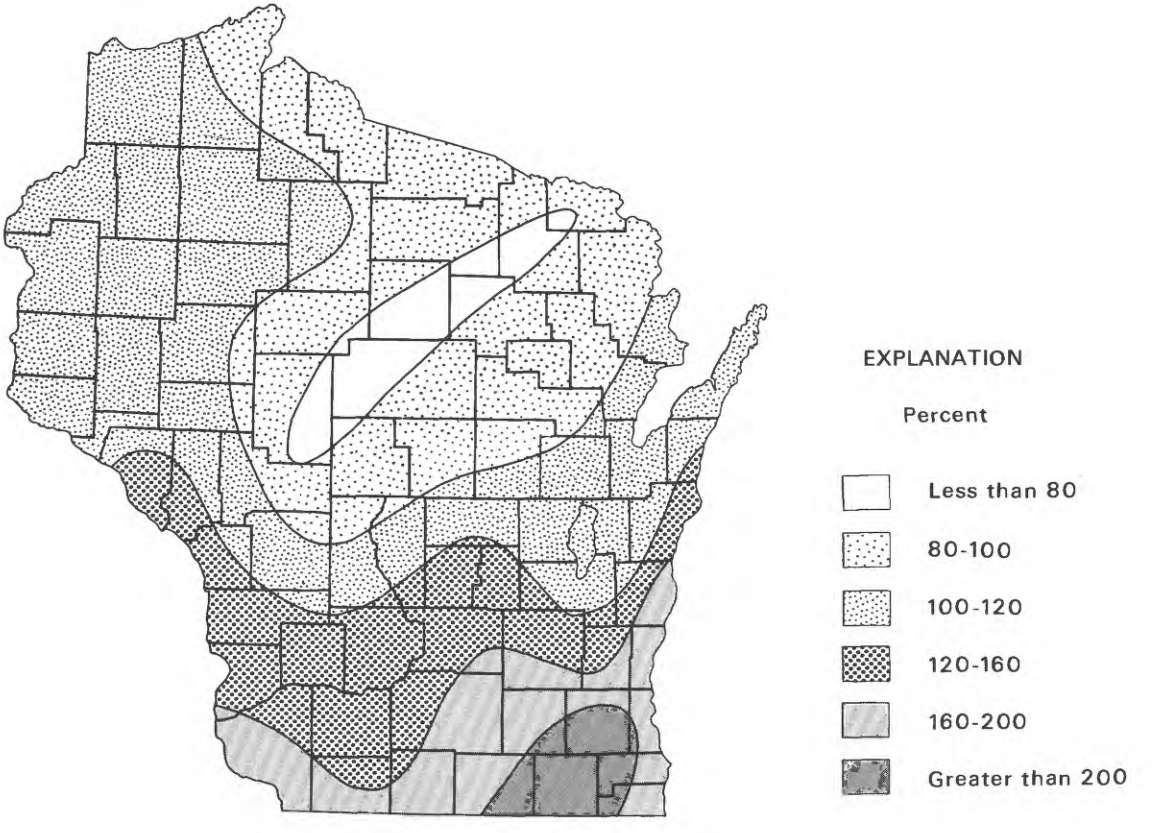


Figure 2. 1974 runoff as percent of long-term average runoff.

Lake stages in southeast and eastern Wisconsin rose considerably in late spring and summer. The 1974 peak stage for North Lake near Elkhorn observed on June 22 exceeded the previous peak of 37 years record by 2.5 feet, and exceeded the peak for 35 years of record for Cedar Lake near Kiel by 0.43 foot.

Figures 4 and 5 show extremes of stage during the water year 1974 for selected lakes.

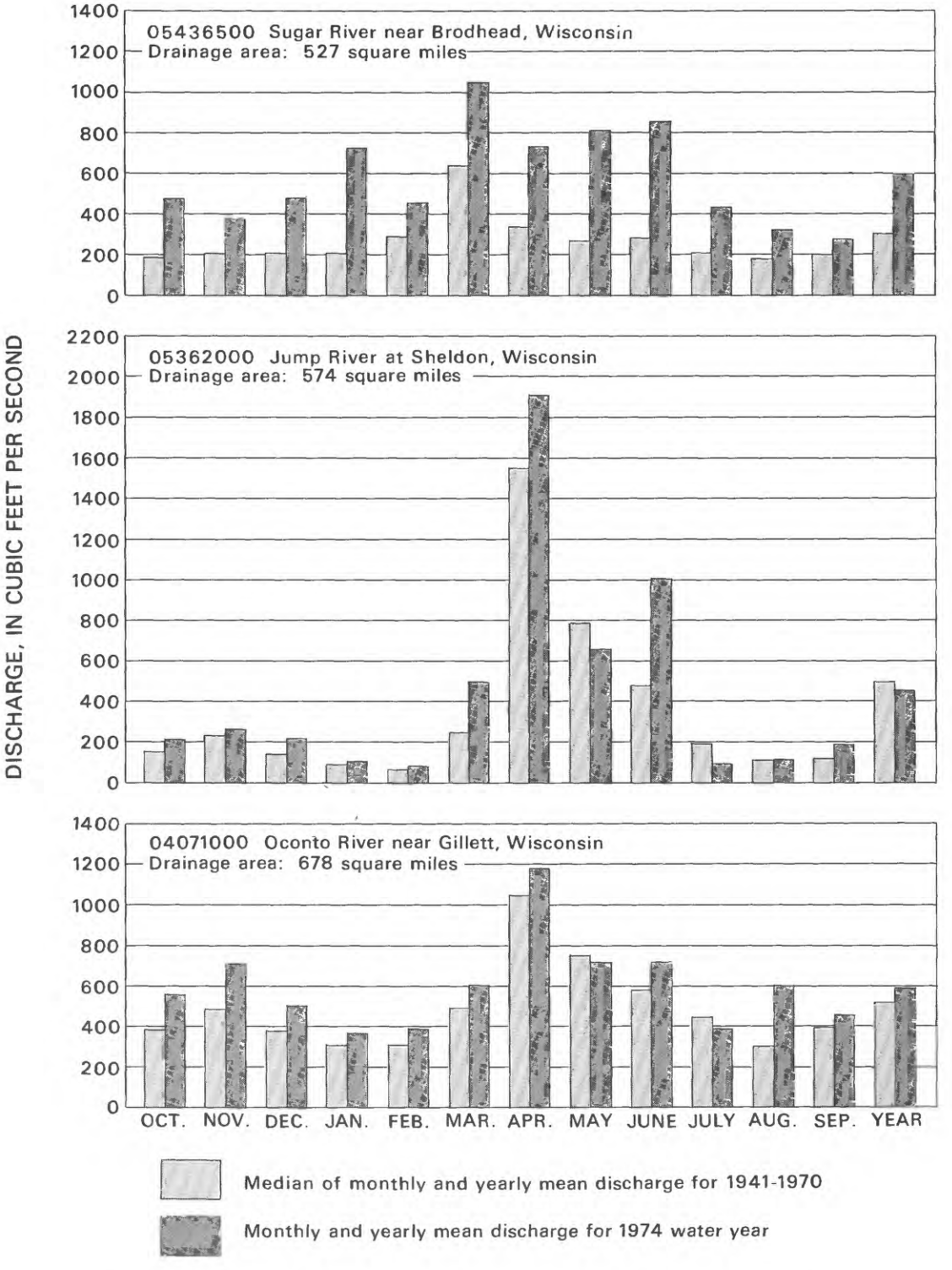


Figure 3. Comparison of discharge at representative gaging stations during 1974 water year with median discharge for 1941-1970.

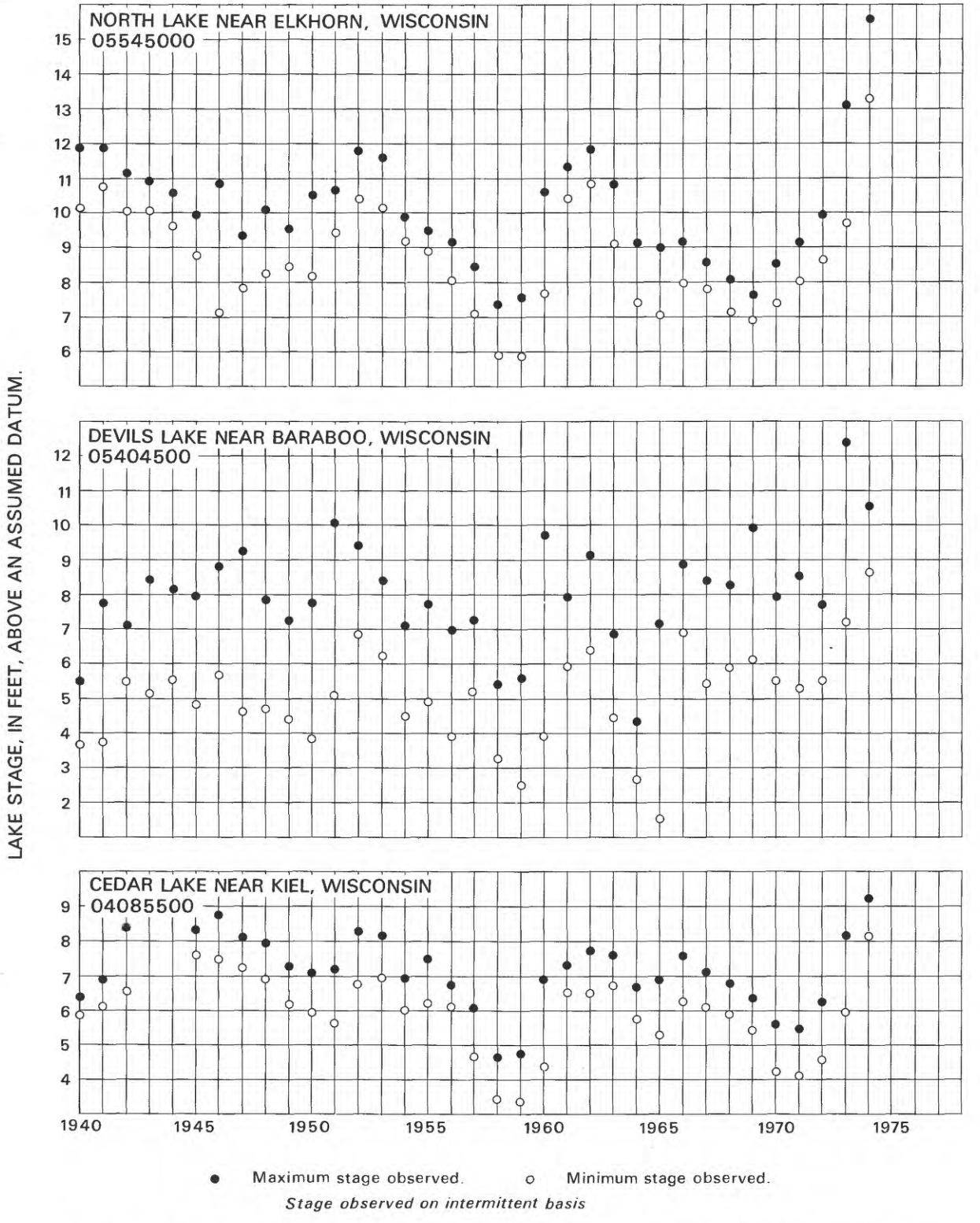


Figure 4. A comparison of extremes of stage of three southern lakes with no surface outlet for each water year since 1940.

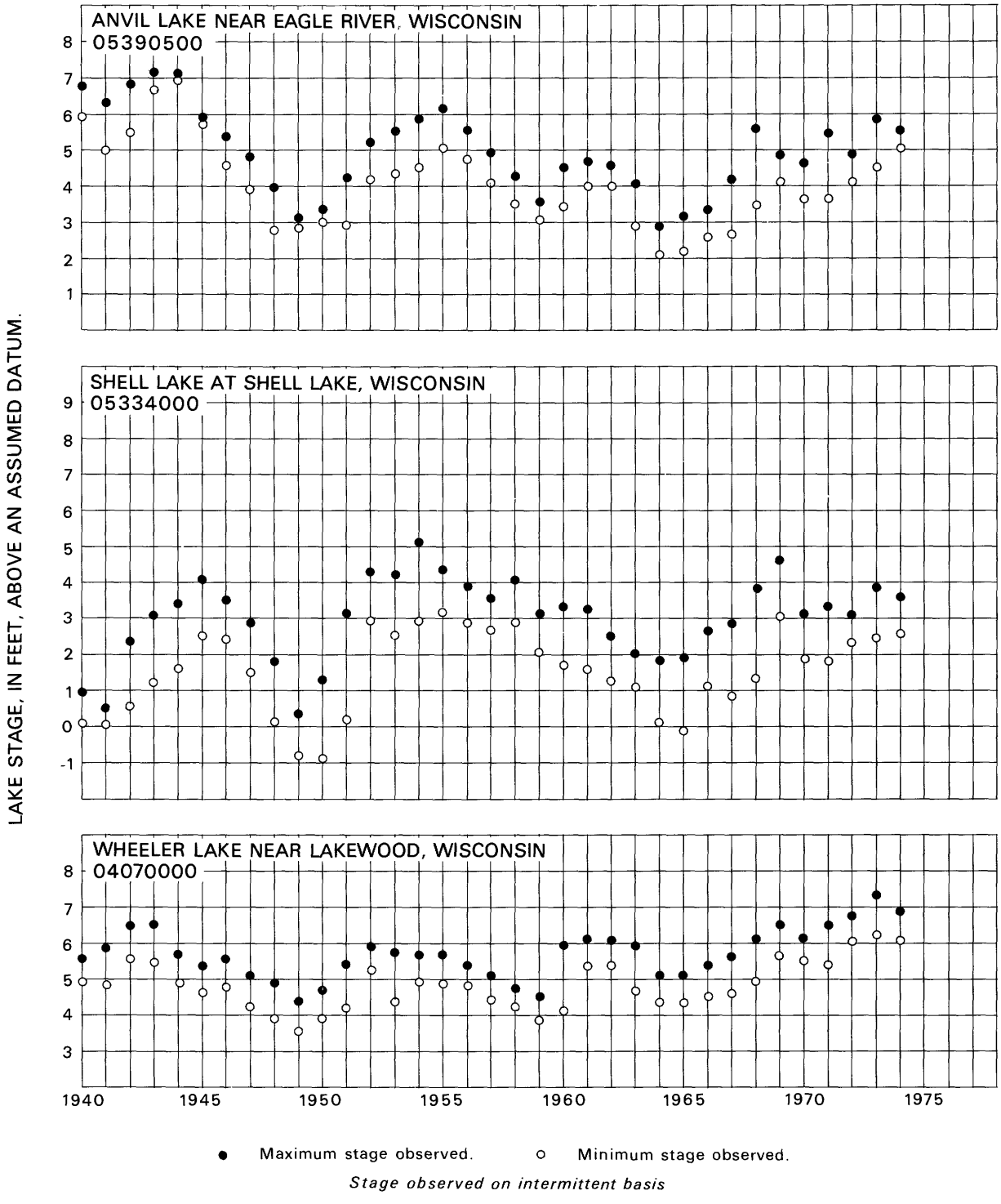


Figure 5. A comparison of extremes of stage of three northern lakes with no surface outlet for each water year since 1940.

04024430 NEMADJI RIVER NEAR SOUTH SUPERIOR, WIS.

LOCATION.--LAT 46°38'00", LONG 92°05'38", IN SW 1/4 SEC.14, T.48 N., R.14 W., DOUGLAS COUNTY, ON RIGHT BANK AT DOWNSTREAM SIDE OF BRIDGE ON COUNTY TRUNK HIGHWAY C, 2.0 MI (3.2 KM) SOUTH OF SOUTH SUPERIOR AND 7.8 MI (12.6 KM) DOWNSTREAM FROM BLACK RIVER.

DRAINAGE AREA.--422 MI^2 (1,093 KM^2).

PERIOD OF RECORD.--DECEMBER 1973 TO SEPTEMBER 1974.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 628 FT (191 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--MAXIMUM DISCHARGE OURING PERIOD, 5,080 FT^3/S (144 M^3/S) JUNE 11, GAGE HEIGHT, 21.61 FT (6.59 M) FROM RATING CURVE EXTENDED ABOVE 3,200 FT^3/S (90.6 M^3/S); MINIMUM, 54 FT^3/S (1.53 M^3/S) SEPT. 21, GAGE HEIGHT, 4.05 FT (1.23 M).

REMARKS.--RECORDS GOOD. RECORDS OF SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JUNE 13 TO JULY 2; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 1 TO APR. 20.)

4.0	48	9.0	896
4.5	104	11.0	1,420
5.0	170	14.0	2,320
6.0	320	17.0	3,330
7.0	486	20.0	4,440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			540	120	72	86	110	625	585	106	67	76
2			540	120	72	90	130	542	424	128	91	72
3			450	110	72	92	150	856	356	112	1,050	69
4			320	110	72	96	190	824	341	104	1,490	66
5			270	110	72	100	230	632	520	98	810	62
6			260	100	72	110	300	543	598	93	525	60
7			260	100	70	120	400	467	3,190	88	390	60
8			270	100	70	130	450	410	2,120	82	311	59
9			290	96	70	150	500	366	1,520	84	256	58
10			250	94	70	160	1,000	338	4,120	109	215	63
11			210	92	70	190	2,000	798	4,730	103	483	67
12			190	90	72	200	2,900	2,270	3,320	88	495	76
13			190	88	74	200	3,500	1,220	1,630	88	384	83
14			200	86	72	210	3,600	1,040	1,120	125	395	86
15			200	84	72	210	3,500	1,450	814	152	364	83
16			190	82	72	190	3,500	1,020	636	126	276	74
17			190	80	72	180	3,500	843	514	110	218	66
18			180	78	72	170	3,100	676	387	103	172	61
19			170	78	72	160	2,900	568	374	96	143	59
20			170	76	72	150	2,600	477	311	85	125	55
21			160	76	72	140	2,400	448	283	92	112	54
22		2,710	150	76	74	130	2,100	1,400	248	157	102	56
23		1,330	140	76	78	120	1,800	1,030	217	138	96	56
24		814	130	76	80	100	1,300	686	192	118	91	55
25		758	130	76	80	92	1,000	544	169	127	87	57
26		758	130	74	80	86	900	455	152	135	119	59
27		754	130	74	82	82	800	390	139	112	156	57
28		712	120	74	82	80	890	348	127	92	115	56
29		548	120	72	------	80	766	318	117	80	94	57
30		560	120	72	------	86	716	292	111	74	85	55
31		------	120	72	------	96	------	458	------	69	80	------
TOTAL			6,790	2,712	2,060	4,086	47,232	22,334	29,365	3,274	9,397	1,917
MEAN			219	87.5	73.6	132	1,574	720	979	106	303	63.9
MAX			540	120	82	210	3,600	2,270	4,730	157	1,490	86
MIN			120	72	70	80	110	292	111	69	67	54

0402S500 BOIS BRULE RIVER AT BRULE, WIS.

LOCATION.--LAT 46°32'16", LONG 91°35'43", IN NW 1/4 SW 1/4 SEC.23, T.47 N., R.10 W., DOUGLAS COUNTY, ON RIGHT BANK, 1.4 MI (2.3 KM) SOUTHWEST OF BRULE POST OFFICE, 1.4 MI (2.3 KM) DOWNSTREAM FROM NEBAGAMON CREEK, AND 1.7 MI (2.7 KM) UPSTREAM FROM LITTLE BOIS BRULE RIVER.

DRAINAGE AREA.--120 MI^2 (311 KM^2).

PERIOD OF RECORD.--OCTOBER 1942 TO CURRENT YEAR. PRIOR TO JANUARY 1943 MONTHLY DISCHARGE ONLY, PUBLISHED IN WSP 1307.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 948.49 FT (289.100 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCTOBER 1964, NONRECORDING GAGE AT SAME SITE AND DATUM, SUPPLEMENTED BY WATER-STAGE RECORDER PART OF 1959-62.

AVERAGE DISCHARGE.--32 YEARS, 172 FT^3/S (4.871 M^3/S), 19.46 IN/YR (494 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 563 FT^3/S (15.9 M^3/S) JUNE 10, GAGE HEIGHT, 3.31 FT (1.009 M); MAXIMUM GAGE HEIGHT, 3.66 FT (1.116 M) JAN. 7, BACKWATER FROM ICE; MINIMUM DISCHARGE, 122 FT^3/S (3.46 M^3/S) MAR. 19, GAGE HEIGHT, 1.48 FT (0.451 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,520 FT^3/S (43.0 M^3/S) JUNE 5, 1944, GAGE HEIGHT, 5.2 FT (1.58 M), FROM GRAPH BASED ON GAGE READINGS AND FROM RATING CURVE EXTENDED ABOVE 750 FT^3/S (21.2 M^3/S); MINIMUM OBSERVED, 67 FT^3/S (1.90 M^3/S) MAR. 13, 1943.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WRD WIS. 1971: DRAINAGE AREA. WSP 1337: 1943(M), 1944, 1945-50(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 3-26, DEC. 29 TO JAN. 26, FEB. 1-18, 23-25, MAR. 23-25.)

1.5	125	3.0	443
2.0	214	4.0	812

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	170	170	140	140	135	142	249	207	176	131	141
2	146	167	167	140	150	136	146	238	200	178	181	138
3	147	163	160	140	150	138	141	272	197	170	236	137
4	146	159	160	140	150	138	141	258	193	165	239	135
5	144	156	160	140	150	138	142	248	196	161	215	133
6	142	154	160	140	140	139	143	235	200	156	189	132
7	141	151	160	140	140	140	144	222	274	153	165	132
8	142	153	160	140	140	139	143	212	319	150	159	134
9	167	153	160	140	140	139	143	206	347	151	166	138
10	230	154	160	140	140	139	150	202	507	151	163	143
11	247	147	160	140	140	139	163	242	471	151	158	143
12	305	150	160	140	140	139	213	266	403	149	153	143
13	286	153	150	140	140	140	244	263	357	148	148	149
14	266	154	150	140	140	141	233	269	319	167	154	145
15	244	153	150	140	140	142	252	259	297	157	159	140
16	224	152	150	140	140	141	335	244	278	150	158	137
17	209	150	150	140	140	140	411	232	265	150	151	134
18	197	150	150	140	140	140	412	222	255	147	145	135
19	190	151	150	140	137	140	368	212	243	143	140	135
20	184	165	150	140	135	139	353	209	232	139	134	135
21	180	230	150	130	137	138	355	217	223	162	134	134
22	176	224	150	130	136	143	366	261	214	167	134	133
23	174	216	150	140	140	140	347	246	206	155	133	132
24	172	205	150	140	140	140	323	235	197	152	132	132
25	177	199	150	150	140	140	303	220	191	153	131	133
26	177	196	170	150	143	137	286	208	186	148	199	132
27	177	198	160	140	135	136	285	201	179	141	172	131
28	179	191	150	140	136	136	284	197	174	136	162	131
29	175	185	150	140	------	137	276	192	172	132	153	131
30	172	177	150	140	------	140	264	187	175	133	146	130
31	170	------	140	140	------	137	------	215	------	132	144	------
TOTAL	5,833	5,126	4,807	4,340	3,939	4,306	7,508	7,139	7,677	4,723	4,984	4,078
MEAN	188	171	155	140	141	139	250	230	256	152	161	136
MAX	305	230	170	150	150	143	412	272	507	178	239	149
MIN	141	147	140	130	135	135	141	187	172	132	131	130
CFSM	1.57	1.43	1.29	1.17	1.18	1.16	2.08	1.92	2.13	1.27	1.34	1.13
IN.	1.81	1.59	1.49	1.35	1.22	1.33	2.33	2.21	2.38	1.46	1.55	1.26

CAL YR 1973 TOTAL 66,965 MEAN 183 MAX 386 MIN 120 CFSM 1.53 IN 20.76
WTR YR 1974 TOTAL 64,460 MEAN 177 MAX 507 MIN 130 CFSM 1.48 IN 19.98

PEAK DISCHARGE (BASE, 300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	0400	2.48	316	6-10	1100	3.31	563
4-17	2200	3.18	494				

NOTE.--NO GAGE-HEIGHT RECORD DEC. 27 TO FEB. 8.

04026100 LONG LAKE NEAR IRON RIVER, WIS.

LOCATION.--LAT 46°34'54", LONG 91°20'18", IN SW 1/4 SEC.2, T.47 N., R.8 W., BAYFIELD COUNTY, AT RESIDENCE OF ROBERT WICK, EAST SIDE OF LAKE, 3.6 MI (5.8 KM) NORTHEAST OF IRON RIVER.

DRAINAGE AREA.--1.28 MI^2 (3.32 KM^2). AREA OF LONG LAKE, 184 ACRES (745,000 M^2).

PERIOD OF RECORD.--OCTOBER 1964 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE. ALTITUDE OF GAGE IS 1,096 FT (334 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 4.60 FT (1.402 M) JUNE 15; MINIMUM OBSERVED, 4.18 FT (1.274 M) NOV. 9, 14, DEC. 4.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 4.60 FT (1.402 M) JUNE 15, 1974; MINIMUM OBSERVED, 1.39 FT (0.424 M) AUG. 28, 1968.

REMARKS.--LAKE HAS NO SURFACE OUTLET. LAKE ICE COVERED FROM ABOUT NOV. 15 TO APR. 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2								4.55				
3											4.50	
4			4.18						4.48			
5									4.47			
6										4.34		
7					4.45							4.28
8									4.59			
9		4.18										
10											4.42	
11												
12												
13										4.28		
14		4.18										4.30
15									4.60			
16												
17											4.48	
18												
19												
20										4.28		
21												4.26
22									4.52		4.36	
23												
24											4.32	
25												
26												
27			4.41			4.37				4.40		
28												4.20
29					------				4.40			
30					------							
31		------			------		------		------		4.38	------

04026450 BAD RIVER NEAR MELLEN, WIS.

LOCATION.--LAT 46°16'14", LONG 90°42'26", IN NE 1/4 NW 1/4 SEC.26, T.44 N., R.3 W., ASHLAND COUNTY, CHEQUAMEGON NATIONAL FOREST, ON LEFT BANK 150 FT (46 M) DOWNSTREAM FROM BRIDGE ON U.S. FOREST SERVICE ROAD 184, 250 FT (76 M) DOWNSTREAM FROM IRON RIVER AND 4.4 MI (7.1 KM) SOUTHWEST OF MELLEN.

DRAINAGE AREA.--83.4 MI^2 (216.0 KM^2).

PERIOD OF RECORD.--OCTOBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,390 FT (424 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 886 FT^3/S (25.1 M^3/S) JUNE 11, GAGE HEIGHT, 4.86 FT (1.481 M); MINIMUM, 10 FT^3/S (0.28 M^3/S) JULY 12, GAGE HEIGHT, 0.80 FT (0.244 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE, 2,130 FT^3/S (60.3 M^3/S) JULY 23, 1972, GAGE HEIGHT, 7.61 FT (2.320 M); MINIMUM, 8.2 FT^3/S (0.232 M^3/S) AUG. 8, 9, 13, 1971, GAGE HEIGHT, 0.70 FT (0.213 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS AND PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE POOR.

RATING TABLE, EXCEPT PERIOD OF NO GAGE-HEIGHT RECORD, (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-9, 17, DEC. 6 TO FEB. 10, FEB. 14-15, 19-21, FEB. 23 TO MAR. 1, MAR. 4-19, 21-24.)

0.8	11	2.0	123
0.9	15	3.0	330
1.1	26	4.0	599
1.5	59	5.0	935

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	50	84	33	25	23	25	198	111	19	11	35
2	57	54	59	32	25	24	28	184	88	21	38	29
3	50	50	57	31	25	26	29	200	73	21	165	26
4	51	42	53	30	25	28	33	224	66	21	272	28
5	49	35	49	29	24	31	37	205	48	20	213	22
6	44	29	48	28	24	33	40	182	41	17	139	19
7	39	26	48	27	23	34	42	165	40	14	98	19
8	33	25	47	26	23	33	39	150	98	15	134	17
9	100	25	46	25	22	33	37	137	143	15	115	64
10	180	27	45	25	22	33	45	82	610	14	83	199
11	140	29	44	25	22	33	65	157	870	12	81	199
12	120	31	44	24	22	32	134	240	708	11	83	170
13	100	34	43	24	22	31	242	208	474	11	83	159
14	80	37	42	24	22	31	230	192	311	12	248	133
15	66	36	41	24	22	30	206	189	236	12	304	103
16	56	34	40	24	22	29	268	160	219	11	259	90
17	48	33	39	24	22	28	360	131	222	13	168	87
18	46	32	38	24	22	27	527	112	228	14	108	52
19	40	34	37	25	22	26	535	113	192	15	75	55
20	37	35	36	25	22	26	562	111	140	14	60	59
21	35	90	35	25	23	25	753	105	124	18	48	47
22	33	140	35	25	24	24	839	106	100	34	40	41
23	31	114	34	26	24	23	702	109	83	29	36	41
24	30	97	33	26	24	23	512	105	53	27	32	35
25	28	92	33	26	24	22	400	97	44	28	28	33
26	27	92	33	26	23	22	335	86	37	24	68	34
27	27	122	34	26	22	21	307	77	31	18	89	29
28	50	130	35	26	22	20	313	71	27	15	68	28
29	76	122	35	26	------	20	282	45	24	13	64	29
30	64	104	34	26	------	22	236	40	22	13	45	30
31	56	------	34	26	------	23	------	100	------	11	36	------
TOTAL	1,859	1,801	1,315	813	644	836	8,163	4,281	5,463	532	3,291	1,912
MEAN	60.0	60.0	42.4	26.2	23.0	27.0	272	138	182	17.2	106	63.7
MAX	180	140	84	33	25	34	839	240	870	34	304	199
MIN	27	25	33	24	22	20	25	40	22	11	11	17
CFSM	.72	.72	.51	.31	.28	.32	3.26	1.65	2.18	.21	1.27	.76
IN.	.83	.80	.59	.36	.29	.37	3.64	1.91	2.44	.24	1.47	.85

CAL YR 1973 TOTAL 38,074 MEAN 104 MAX 614 MIN 11 CFSM 1.25 IN 16.98
WTR YR 1974 TOTAL 30,910 MEAN 84.7 MAX 870 MIN 11 CFSM 1.02 IN 13.79

NOTE.--NO GAGE-HEIGHT RECORD OCT. 9 TO NOV. 12.

04026870 ALDER CREEK NEAR UPSON, WIS.

LOCATION.--LAT 46°23'09", LONG 90°24'30", IN SE 1/4 SE 1/4 SEC.7, T.45 N., R.1 E., IRON COUNTY, ON RIGHT BANK 10 FT (3 M) UPSTREAM FROM STATE HIGHWAY 122 BRIDGE AND 1.0 MI (1.6 KM) NORTH OF UPSON.

DRAINAGE AREA.--22.3 MI^2 (57.8 KM^2).

PERIOD OF RECORD.--APRIL 1972 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,380.24 FT (420.697 M) ABOVE MEAN SEA LEVEL. PRIOR TO MAY 16, 1972, NONRECORDING GAGE AT SAME SITE AND DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 431 FT^3/S (12.2 M^3/S) JUNE 11, GAGE HEIGHT, 6.57 FT (2.003 M); MINIMUM, 2.3 FT^3/S (0.065 M^3/S) JULY 17.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 702 FT^3/S (19.9 M^3/S) AUG. 17, 1972, GAGE HEIGHT, 7.29 FT (2.222 M); MINIMUM DAILY, 1.4 FT^3/S (0.040 M^3/S), SEPT. 15, 1973.

REMARKS.--RECORDS FAIR EXCEPT THOSE FOR WINTER PERIOD, PERIODS OF NO GAGE-HEIGHT RECORD, AND DISCHARGE BELOW 3 FT^3/S (0.085 M^3/S), WHICH ARE POOR.

REVISIONS.--FIGURE OF MAXIMUM DISCHARGE FOR THE WATER YEAR 1972 HAS BEEN REVISED TO 702 FT^3/S (19.9 M^3/S) AUG. 17, 1972, GAGE HEIGHT, 7.29 FT (2.222 M), SUPERSEDING FIGURES PUBLISHED IN WRD WIS. 1972, 1973.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 6 TO APR. 12.)

OCT. 1 TO NOV. 22

3.1	4.2
3.3	10
3.5	18
4.0	52

NOV. 23 TO SEPT. 30

2.9	2.1	3.6	30
3.0	3.3	4.0	56
3.1	5.3	5.0	142
3.3	12	6.0	290
		7.0	580

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	11	14	7.4	4.5	4.6	5.6	31	31	6.8	2.8	6.2
2	6.9	13	13	7.2	4.4	4.8	6.0	26	25	8.0	16	5.3
3	6.4	11	13	7.0	4.2	5.0	6.6	40	17	8.3	63	4.9
4	7.2	9.0	12	6.6	4.1	5.4	7.8	49	13	8.0	110	4.5
5	6.6	7.8	10	6.4	4.0	6.0	9.6	46	11	6.5	92	4.1
6	6.4	6.6	9.8	6.2	4.0	6.4	12	39	9.1	4.9	53	3.7
7	5.8	6.4	9.8	6.0	4.0	6.8	14	32	11	4.1	28	3.7
8	5.6	6.0	9.6	5.8	4.0	6.8	13	27	32	3.3	16	3.5
9	15	6.4	9.6	5.6	4.0	6.8	12	21	44	3.3	11	5.6
10	29	7.0	9.4	5.6	3.9	6.8	14	20	202	3.1	7.7	14
11	22	7.8	9.4	5.4	3.9	6.8	24	37	382	2.9	6.8	16
12	17	9.2	9.2	5.4	3.9	6.8	50	56	212	2.8	6.5	13
13	13	11	9.2	5.2	3.9	6.8	117	58	105	2.7	6.2	18
14	9.8	11	9.0	5.2	3.9	6.6	153	56	58	2.8	10	21
15	8.5	11	9.0	5.2	3.9	6.4	169	62	50	2.7	15	18
16	7.2	10	9.0	5.2	4.0	6.2	163	57	63	2.5	24	12
17	6.1	9.5	9.0	5.0	4.1	6.2	175	44	84	4.7	23	8.3
18	5.8	9.8	8.8	5.0	4.2	6.0	257	34	99	5.9	17	6.2
19	5.3	10	8.8	5.0	4.2	5.8	266	27	89	6.2	12	5.9
20	5.0	12	8.8	5.0	4.3	5.6	250	22	62	8.3	9.5	5.9
21	4.7	27	8.8	5.0	4.4	5.6	328	20	40	6.2	7.4	5.9
22	4.5	39	8.8	5.0	4.5	5.4	337	23	26	9.1	5.3	5.9
23	4.5	42	8.6	5.0	4.6	5.2	210	25	18	7.7	4.9	4.9
24	4.2	30	8.6	5.0	4.6	5.2	129	23	14	5.3	4.3	4.5
25	4.2	25	8.6	5.0	4.5	5.0	100	19	11	5.1	4.1	4.7
26	4.5	24	8.4	5.0	4.5	5.0	81	16	9.1	5.3	14	4.7
27	5.3	30	8.6	5.0	4.4	4.9	61	13	7.4	4.1	20	4.1
28	11	28	8.6	4.9	4.5	4.8	60	12	6.8	3.3	15	3.7
29	12	22	8.6	4.8	------	4.9	50	13	6.2	2.9	12	4.3
30	11	18	8.2	4.7	------	5.0	39	14	8.0	2.8	8.3	5.3
31	10	------	8.0	4.6	------	5.2	------	24	------	2.9	7.4	------
TOTAL	272.4	470.5	294.2	169.4	117.4	178.8	3,119.6	986	1,745.6	152.5	632.2	227.8
MEAN	8.79	15.7	9.49	5.46	4.19	5.77	104	31.8	58.2	4.92	20.4	7.59
MAX	29	42	14	7.4	4.6	6.8	337	62	382	9.1	110	21
MIN	4.2	6.0	8.0	4.6	3.9	4.6	5.6	12	6.2	2.5	2.8	3.5
CFSM	.39	.70	.43	.24	.19	.26	4.66	1.43	2.61	.22	.91	.34
IN.	.45	.78	.49	.28	.20	.30	5.20	1.64	2.91	.25	1.05	.38

CAL YR 1973 TOTAL 10,562.1 MEAN 28.9 MAX 280 MIN 1.4 CFSM 1.30 IN 17.62
WTR YR 1974 TOTAL 8,366.4 MEAN 22.9 MAX 382 MIN 2.5 CFSM 1.03 IN 13.96

NOTE: NO GAGE-HEIGHT RECORD DEC. 7 TO APR. 12.

04027000 BAD RIVER NEAR ODANAH, WIS.

LOCATION.--LAT 46°29'15", LONG 90°41'45", IN SE 1/4 SEC.2, T.46 N., R.3 W., ASHLAND COUNTY, ON LEFT BANK JUST DOWNSTREAM FROM ELM HOIST BRIDGE, 5.0 MI (8.0 KM) DOWNSTREAM FROM POTATO RIVER, 8.5 MI (13.7 KM) SOUTH OF ODANAH, AND 23 MI (37 KM) FROM MOUTH.

DRAINAGE AREA.--611 MI^2 (1,582 KM^2).

PERIOD OF RECORD.--JULY 1914 TO DECEMBER 1922 (MONTHLY DISCHARGE ONLY FOR SOME PERIODS PUBLISHED IN WSP 1307), MAY 1948 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 668.30 FT (203.698 M) ABOVE MEAN SEA LEVEL. MAY 17, 1948, TO NOV. 6, 1959, AND OCT. 19, 1960, TO NOV. 23, 1961, WATER-STAGE RECORDER. NOV. 7, 1959, TO OCT. 18, 1960, AND NOV. 24, 1961, TO JULY 12, 1962, NONRECORDING GAGE. PRIOR TO NOV. 11, 1922, WATER-STAGE RECORDER AT SITE 2 MI (3 KM) DOWNSTREAM AT DIFFERENT DATUM.

AVERAGE DISCHARGE.--34 YEARS (1914-22, 1948-74), 616 FT^3/S (17.44 M^3/S), 13.69 IN/YR (348 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 8,190 FT^3/S (232 M^3/S) JUNE 11, GAGE HEIGHT, 11.36 FT (3.463 M); MINIMUM, 122 FT^3/S (3.46 M^3/S) JULY 16, GAGE HEIGHT, 2.28 FT (0.695 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 27,700 FT^3/S (784 M^3/S) APR. 24, 1960, GAGE HEIGHT, 21.7 FT (6.61 M) FROM FLOODMARKS AND FROM RATING CURVE EXTENDED ABOVE 12,000 FT^3/S (340 M^3/S) AND A COMPARISON WITH CONTRACTED-OPENING MEASUREMENT OF PEAK FLOW 45,600 FT^3/S (1,290 M^3/S) AT ODANAH, DRAINAGE AREA APPROXIMATELY 970 MI^2 (2,510 KM^2); MINIMUM 49 FT^3/S (1.39 M^3/S) AUG. 8, 1964, GAGE HEIGHT, 2.03 FT (0.619 M).
FLOOD OF JUNE 24, 1946, REACHED A STAGE OF AT LEAST 22.2 FT (6.77 M), TOP OF DOWNSTREAM BRIDGE SUBMERGED, INFORMATION FROM INDIAN SERVICE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1207: DRAINAGE AREA. WSP 1337: 1922.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-19, DEC. 6 TO APR. 15.)

2.3	119	6.0	2,260
3.0	336	9.0	5,000
4.0	830	10.0	6,220
		11.0	7,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	422	483	240	180	290	270	1,010	610	215	131	207
2	343	445	539	240	180	320	290	858	545	214	154	198
3	306	405	440	240	180	350	310	1,160	465	219	553	186
4	291	360	371	230	180	390	330	1,200	402	206	1,520	175
5	285	313	312	230	180	440	350	995	352	193	1,210	164
6	265	212	320	230	180	600	400	864	310	181	826	156
7	247	200	330	230	180	900	460	746	292	167	567	152
8	233	190	360	230	180	800	500	651	530	158	525	150
9	437	190	410	230	180	680	560	582	720	152	489	167
10	1,130	200	390	220	180	660	800	531	4,900	148	394	425
11	1,010	210	380	220	180	620	1,500	739	7,080	141	333	601
12	892	210	370	220	180	540	2,200	1,250	3,970	134	317	590
13	749	210	360	220	180	490	4,000	1,160	2,430	132	322	594
14	614	220	350	220	180	440	3,300	1,160	1,560	132	634	595
15	511	240	340	220	180	410	2,900	1,340	1,240	132	979	492
16	429	260	330	220	180	380	2,830	1,120	1,330	125	1,890	399
17	375	230	320	210	180	360	3,560	930	1,350	135	1,020	334
18	341	250	310	210	180	340	4,340	771	1,470	171	631	287
19	314	270	300	210	180	310	3,860	655	1,200	163	449	266
20	292	286	290	210	190	300	3,750	560	908	163	348	256
21	277	490	280	210	190	270	4,680	505	714	152	287	248
22	264	836	270	200	190	250	4,990	575	580	314	248	230
23	256	774	260	200	190	220	4,120	605	460	249	222	214
24	245	661	260	200	200	210	3,070	545	385	219	208	204
25	243	673	260	190	210	200	2,320	480	332	210	192	204
26	240	634	250	190	230	200	1,890	419	292	211	283	203
27	239	693	250	190	250	200	1,610	372	259	191	419	203
28	363	742	250	190	270	200	1,550	348	233	164	359	194
29	504	605	250	190	------	220	1,390	332	215	143	292	190
30	475	538	250	190	------	230	1,190	318	224	136	246	192
31	424	------	250	180	------	250	------	428	------	133	222	------
TOTAL	12,989	11,969	10,135	6,610	5,340	12,070	63,320	23,209	35,358	5,403	16,270	8,476
MEAN	419	399	327	213	191	389	2,111	749	1,179	174	525	283
MAX	1,130	836	539	240	270	900	4,990	1,340	7,080	314	1,890	601
MIN	233	190	250	180	180	200	270	318	215	125	131	150
CFSM	.69	.65	.54	.35	.31	.64	3.46	1.23	1.93	.28	.86	.46
IN.	.79	.73	.62	.40	.33	.73	3.86	1.41	2.15	.33	.99	.52

CAL YR 1973 TOTAL 273,591 MEAN 750 MAX 6,200 MIN 138 CFSM 1.23 IN 16.66
WTR YR 1974 TOTAL 211,149 MEAN 578 MAX 7,080 MIN 125 CFSM .95 IN 12.86

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1230	8.80	4,800	6-11	0300	11.36	8,190
4-22	0400	9.18	5,220				

04027500 WHITE RIVER NEAR ASHLAND, WIS.

LOCATION.--LAT 46°29'50", LONG 90°54'15", IN NE 1/4 SEC.6, T.46 N., R.4 W., ASHLAND COUNTY, AT DOWNSTREAM END OF POWERPLANT OF LAKE SUPERIOR DISTRICT POWER CO., 0.3 MI (0.5 KM) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 112 OVER DAM, AND 4.5 MI (7.2 KM) SOUTH OF ASHLAND CITY LIMITS.

DRAINAGE AREA.--279 MI^2 (723 KM^2).

PERIOD OF RECORD.--MAY 1948 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 660.15 FT (201.214 M) ABOVE MEAN SEA LEVEL (LAKE SUPERIOR DISTRICT POWER CO. BENCH MARK).

AVERAGE DISCHARGE.--26 YEARS, 289 FT^3/S (8.184 M^3/S), 14.07 IN/YR (358 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,400 FT^3/S (39.6 M^3/S) JUNE 10, GAGE HEIGHT, 3.16 FT (0.963 M); MINIMUM OBSERVED, 106 FT^3/S (3.00 M^3/S) DEC. 8, GAGE HEIGHT, 0.81 FT (0.247 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 6,270 FT^3/S (178 M^3/S) JULY 1, 1953, GAGE HEIGHT, 7.90 FT (2.408 M) FROM RATING CURVE EXTENDED ABOVE 3,000 FT^3/S (85.0 M^3/S); MINIMUM, 3.1 FT^3/S (0.089 M^3/S) APR. 28-30, 1949, GAGE HEIGHT, 0.09 FT (0.027 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR, AND THOSE FOR PERIOD AUG. 19 TO SEPT. 30, WHICH ARE POOR. DIURNAL FLUCTUATION CAUSED BY POWERPLANT AT GAGE.

REVISIONS (WATER YEARS).--WRD WIS. 1971: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE JAN. 1 TO MAR. 8. STAGE-DISCHARGE RELATION INDEFINITE AUG. 19 TO SEPT. 30.)

0.8	104	2.0	585
0.9	129	3.0	1,270
1.0	158	4.0	2,160
1.5	343		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	231	252	190	190	210	198	308	303	185	161	230
2	191	224	210	200	180	220	214	273	269	182	182	210
3	207	207	238	200	180	230	191	406	238	204	477	200
4	217	231	227	200	180	220	207	397	194	188	402	190
5	207	204	198	210	180	240	204	366	234	188	348	180
6	207	146	188	200	180	230	217	308	220	173	308	175
7	201	155	176	210	180	260	214	265	234	161	238	170
8	194	194	106	220	180	290	227	256	234	176	194	170
9	220	176	231	220	180	269	201	269	282	182	194	190
10	295	152	234	220	190	273	286	282	1,290	185	210	230
11	370	198	194	210	200	265	543	278	732	182	201	240
12	379	188	152	220	200	278	844	361	823	179	207	250
13	379	227	179	230	210	273	884	370	751	170	182	240
14	361	214	179	210	210	260	830	388	624	173	207	230
15	325	265	158	200	200	245	682	393	517	185	260	220
16	299	198	194	230	200	227	810	370	388	185	512	210
17	238	198	176	250	210	234	990	303	303	167	379	200
18	220	201	224	230	220	217	857	269	265	182	321	195
19	227	217	188	220	210	214	844	265	249	188	306	198
20	220	220	238	210	220	210	823	265	224	176	200	210
21	231	290	194	220	230	201	758	249	204	220	220	200
22	201	406	170	230	220	179	719	242	194	198	224	190
23	217	388	227	230	200	158	706	295	176	194	218	180
24	191	384	217	220	170	201	607	265	182	167	215	170
25	210	343	238	210	180	245	569	242	173	173	210	170
26	210	361	217	210	190	234	492	238	173	198	310	180
27	210	370	224	200	210	252	429	220	173	170	280	180
28	238	352	214	220	210	214	397	224	167	164	260	180
29	273	308	210	210	------	198	366	220	173	155	250	190
30	269	269	207	250	------	198	343	220	214	161	240	200
31	234	------	155	240	------	194	------	234	------	167	250	------
TOTAL	7,648	7,517	6,215	6,720	5,510	7,139	15,652	9,041	10,203	5,578	8,166	5,978
MEAN	247	251	200	217	197	230	522	292	340	180	263	199
MAX	379	406	252	250	230	290	990	406	1,290	220	512	250
MIN	191	146	106	190	170	158	191	220	167	155	161	170
CFSM	.92	.93	.74	.81	.73	.86	1.94	1.09	1.26	.67	.98	.74
IN.	1.06	1.04	.86	.93	.76	.99	2.16	1.25	1.41	.77	1.13	.83

CAL YR 1973 TOTAL 111,491 MEAN 305 MAX 1,590 MIN 106 CFSM 1.13 IN 15.42
WTR YR 1974 TOTAL 95,367 MEAN 261 MAX 1,290 MIN 106 CFSM .97 IN 13.19

04031000 BLACK RIVER NEAR BESSEMER, MICH.

LOCATION.--LAT 46°30'41", LONG 90°04'28", IN NE 1/4 SE 1/4 SEC.32, T.48 N., R.46 W., GOGEBIC COUNTY, ON RIGHT BANK 450 FT (137 M) DOWNSTREAM FROM BRIDGE ON COUNTY HIGHWAY, 500 FT (152 M) DOWNSTREAM FROM POWDER MILL CREEK, AND 2.5 MI (4.0 KM) NORTHWEST OF BESSEMER.

DRAINAGE AREA.--200 MI^2 (518 KM^2).

PERIOD OF RECORD.--OCTOBER 1954 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,154.3 FT (351.83 M) ABOVE MEAN SEA LEVEL (LEVELS BY REGISTERED SURVEYOR).

AVERAGE DISCHARGE.--20 YEARS, 236 FT^3/S (6.684 M^3/S), 16.02 IN/YR (407 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 5,280 FT^3/S (150 M^3/S) JUNE 10 (GAGE HEIGHT, 9.77 FT OR 2.978 M); MINIMUM, 19 FT^3/S (0.54 M^3/S) AUG. 2 (GAGE HEIGHT, 0.60 FT OR 0.183 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 14,800 FT^3/S (419 M^3/S) APR. 24, 1960 (GAGE HEIGHT, 14.27 FT OR 4.349 M, FROM FLOOD MARK), FROM RATING CURVE EXTENDED ABOVE 5,300 FT^3/S (150 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; MINIMUM, 7.8 FT^3/S (0.22 M^3/S) SEPT. 9, 1970 (GAGE HEIGHT, 0.36 FT OR 0.110 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE POOR. PRIOR TO 1967, SOME GROUND WATER PUMPED FROM MINES AT BESSEMER.

REVISIONS.--WSP 1911: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	143	135	30	46	40	48	395	225	56	21	50
2	120	153	125	28	45	42	52	343	174	53	32	46
3	104	142	114	27	43	50	58	521	143	53	135	43
4	101	126	105	27	42	75	62	460	124	58	304	39
5	99	113	100	27	40	95	66	389	105	50	224	37
6	89	100	90	27	38	125	70	351	88	42	179	34
7	83	85	100	27	37	160	75	295	129	37	138	32
8	75	98	105	26	36	135	80	249	425	34	146	32
9	184	95	115	26	34	125	90	215	401	33	148	45
10	373	92	100	25	33	115	105	192	3,690	34	119	96
11	325	90	95	25	32	110	150	405	2,100	40	101	104
12	299	87	85	25	31	105	400	523	1,160	32	87	108
13	234	108	75	24	30	100	1,050	485	736	30	76	149
14	187	118	68	24	30	92	761	650	534	31	120	150
15	159	112	60	27	31	86	634	713	538	27	140	137
16	132	107	55	27	31	80	784	587	500	24	153	119
17	117	105	50	29	32	75	1,200	485	676	38	143	104
18	107	100	45	30	32	70	1,600	389	599	37	120	89
19	97	95	42	30	32	66	1,560	321	439	32	90	96
20	86	106	38	31	31	62	1,710	264	333	27	74	86
21	80	163	35	35	35	60	2,550	283	251	26	72	77
22	73	225	32	38	43	56	3,060	435	194	44	64	68
23	69	197	30	40	45	52	2,280	339	150	36	56	62
24	65	178	29	40	45	50	1,590	273	117	30	52	59
25	65	176	30	42	44	47	1,200	218	96	29	47	58
26	58	173	31	44	42	45	955	176	80	30	100	56
27	58	190	32	45	42	45	780	159	67	46	102	53
28	111	187	35	44	42	45	682	211	58	26	80	51
29	140	171	40	43	------	45	565	206	55	22	67	56
30	126	148	37	41	------	45	475	191	62	22	60	66
31	118	------	33	42	------	45	------	263	------	22	57	------
TOTAL	4,066	3,983	2,066	996	1,044	2,343	24,692	10,986	14,249	1,101	3,307	2,202
MEAN	131	133	66.6	32.1	37.3	75.6	823	354	475	35.5	107	73.4
MAX	373	225	135	45	46	160	3,060	713	3,690	58	304	150
MIN	58	85	29	24	30	40	48	159	55	22	21	32
CFSM	.66	.67	.33	.16	.19	.38	4.12	1.77	2.38	.18	.54	.37
IN.	.76	.74	.38	.19	.19	.44	4.59	2.04	2.65	.20	.62	.41

CAL YR 1973 TOTAL 91,877 MEAN 252 MAX 1,830 MIN 19 CFSM 1.26 IN 17.09
WTR YR 1974 TOTAL 71,035 MEAN 195 MAX 3,690 MIN 21 CFSM .98 IN 13.21

04031500 PRESQUE ISLE RIVER AT MARENISCO, MICH.

LOCATION.--LAT 46°22'20", LONG 89°41'32", IN SE 1/4 NW 1/4 SEC.21, T.46 N., R.43 W., GOGEBIC COUNTY, ON LEFT BANK 0.3 MI (0.5 KM) UPSTREAM FROM HIGHWAY BRIDGE IN MARENISCO, AND 1.5 MI (2.4 KM) DOWNSTREAM FROM CONFLUENCE OF EAST AND WEST BRANCHES.

DRAINAGE AREA.--171 MI^2 (443 KM^2).

PERIOD OF RECORD.--FEBRUARY 1945 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,489.30 FT (453.939 M) ABOVE MEAN SEA LEVEL (LEVELS BY MICHIGAN DEPARTMENT OF NATURAL RESOURCES). PRIOR TO MAY 27, 1949, NONRECORDING GAGE AT SITE 0.3 MI (0.5 KM) DOWNSTREAM AT DIFFERENT DATUM.

AVERAGE DISCHARGE.--29 YEARS, 179 FT^3/S (5.069 M^3/S), 14.22 IN/YR (361 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,390 FT^3/S (39.4 M^3/S) APR. 22 (GAGE HEIGHT, 7.98 FT OR 2.432 M) MINIMUM, 57 FT^3/S (1.61 M^3/S) AUG. 1, 2 (GAGE HEIGHT, 3.50 FT OR 1.067 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,520 FT^3/S (99.7 M^3/S) APR. 25, 1960 (GAGE HEIGHT, 11.25 FT OR 3.429 M); MINIMUM OBSERVED, 13 FT^3/S (0.37 M^3/S) SEPT. 30, 1948 (GAGE HEIGHT, 2.25 FT OR 0.686 M, SITE AND DATUM THEN IN USE).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. OCCASIONAL REGULATION FOR LAKE OR POND LEVEL CONTROL AT SEVERAL PLACES ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 1707: 1954. WSP 1911: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	206	140	96	100	90	96	389	202	116	58	104
2	135	207	130	94	98	92	98	341	188	126	78	107
3	120	194	124	90	96	105	105	364	180	125	209	121
4	136	177	120	90	95	115	110	364	178	118	321	83
5	134	152	110	88	94	125	115	322	167	116	290	87
6	115	135	105	86	94	130	130	291	161	97	215	87
7	101	120	110	86	93	135	135	265	177	92	186	86
8	94	130	115	85	92	130	140	258	291	96	150	83
9	204	140	120	85	92	125	145	234	327	76	123	131
10	402	135	115	84	92	125	150	215	486	76	109	264
11	369	130	110	83	92	120	170	292	645	72	106	326
12	294	130	110	82	91	120	210	375	625	70	102	330
13	235	142	105	80	91	115	290	353	507	75	95	326
14	199	147	105	80	90	110	384	389	414	69	148	294
15	176	142	100	84	90	110	344	464	381	66	224	241
16	155	133	98	88	90	105	391	424	357	65	251	209
17	142	130	95	92	90	105	485	295	343	71	249	197
18	134	125	95	94	90	105	601	162	324	75	224	184
19	130	125	95	95	90	100	644	166	289	69	188	159
20	139	123	95	96	90	98	688	164	263	71	162	148
21	133	141	95	96	90	95	876	167	208	70	144	136
22	127	185	95	97	89	93	1,300	284	178	89	126	129
23	121	167	95	98	89	92	1,280	345	172	80	117	123
24	118	149	98	99	89	92	1,020	303	166	75	107	119
25	115	147	100	100	90	92	774	262	161	83	99	126
26	114	143	100	100	90	92	655	244	120	90	142	122
27	125	167	105	100	90	93	599	233	92	69	151	115
28	242	179	105	100	90	94	563	198	96	64	138	106
29	254	157	110	100	------	95	513	183	112	61	125	107
30	217	154	105	100	------	95	452	172	118	60	115	106
31	196	------	100	100	------	95	------	198	------	61	110	------
TOTAL	5,334	4,512	3,305	2,848	2,567	3,288	13,463	8,716	7,928	2,543	4,862	4,756
MEAN	172	150	107	91.9	91.7	106	449	281	264	82.0	157	159
MAX	402	207	140	100	100	135	1,300	464	645	126	321	330
MIN	94	120	95	80	89	90	96	162	92	60	58	83
CFSM	1.01	.88	.63	.54	.54	.62	2.63	1.64	1.54	.48	.92	.93
IN.	1.16	.98	.72	.62	.56	.72	2.93	1.90	1.72	.55	1.06	1.03

CAL YR 1973 TOTAL 82,112 MEAN 225 MAX 1,020 MIN 61 CFSM 1.32 IN 17.86
WTR YR 1974 TOTAL 64,122 MEAN 176 MAX 1,300 MIN 58 CFSM 1.03 IN 13.95

04037500 CISCO BRANCH ONTONAGON RIVER AT CISCO LAKE OUTLET, MICH.

LOCATION.--LAT 46°15'12", LONG 89°27'05", IN E 1/2 SEC.32, T.45 N., R.41 W., GOGEBIC COUNTY, ON LEFT BANK 80 FT (24 M) DOWNSTREAM FROM CISCO LAKE DAM, 2.5 MI (4.0 KM) UPSTREAM FROM LANGFORD CREEK, 5.0 MI (8.0 KM) UPSTREAM FROM U. S. HIGHWAY 2, AND 13 MI (21 KM) WEST OF WATERSMEET.

DRAINAGE AREA.--50.7 MI^2 (131.3 KM^2).

PERIOD OF RECORD.--OCTOBER 1944 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,672.69 FT (509.836 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCT. 1, 1968, NONRECORDING GAGE AT SAME SITE AND DATUM 4.00 FT (1.219 M) HIGHER.

AVERAGE DISCHARGE.--30 YEARS, 47.4 FT^3/S (1.342 M^3/S), 12.70 IN/YR (323 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 188 FT^3/S (5.32 M^3/S) JUNE 9 (GAGE HEIGHT, 5.59 FT OR 1.704 M); MINIMUM DAILY, 0.28 FT^3/S (0.008 M^3/S) SEPT. 6-8; MINIMUM GAGE HEIGHT, 3.88 FT (1.183 M) SEPT. 5-9.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 288 FT^3/S (8.16 M^3/S) MAY 1-4, 1951 (GAGE HEIGHT, 6.10 FT OR 1.859 M, PRESENT DATUM); MINIMUM DAILY, 0.13 FT^3/S (0.004 M^3/S) AUG. 4-7, AUG. 22 TO SEPT. 5, 1970.

REMARKS.--RECORDS GOOD EXCEPT THOSE BELOW 10 FT^3/S (0.3 M^3/S), WHICH ARE FAIR. FLOW COMPLETELY REGULATED BY CISCO LAKE (USABLE CAPACITY, 15,600 ACRE-FT OR 19.2 HM^3).

REVISIONS.--WSP 1911: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	139	28	62	29	29	58	34	16	2.0	.31	3.4
2	64	135	29	62	30	29	67	.85	18	2.1	.43	3.2
3	64	132	36	46	30	29	67	1.1	29	1.9	102	1.7
4	63	127	46	28	31	30	73	.94	30	1.4	175	.31
5	63	122	62	28	31	30	85	.81	31	1.6	127	.31
6	63	121	75	28	31	49	94	.73	39	1.6	98	.28
7	60	119	74	28	31	65	92	.61	45	1.7	51	.28
8	29	115	74	27	31	65	90	.48	113	1.6	16	.28
9	63	112	71	27	32	64	75	.40	182	1.6	16	50
10	106	110	58	27	32	64	64	.37	181	1.7	16	138
11	104	106	45	27	41	43	64	.55	179	1.8	16	159
12	105	103	45	28	48	28	81	.57	175	1.9	16	100
13	58	101	45	28	48	28	93	.53	168	1.7	15	58
14	26	99	45	28	48	28	92	1.3	127	1.7	94	29
15	14	97	46	30	48	28	91	1.7	100	1.7	161	2.8
16	3.8	95	45	30	47	28	91	1.5	98	1.6	159	2.7
17	3.7	94	45	31	47	29	89	1.4	72	1.9	125	37
18	3.5	92	45	31	47	29	81	1.3	50	1.8	97	59
19	45	90	36	31	46	30	74	1.1	40	1.8	58	58
20	78	90	28	31	46	30	76	.88	33	1.8	29	57
21	77	89	28	49	45	30	78	.83	32	2.1	28	42
22	84	88	28	67	36	30	83	.91	31	29	26	23
23	91	86	28	66	28	30	87	.78	30	46	26	24
24	100	86	28	65	28	30	86	.76	30	46	27	24
25	105	87	29	65	28	30	83	.61	16	67	27	24
26	101	86	30	64	29	30	79	.48	4.0	78	28	25
27	101	84	40	63	29	30	72	.41	3.2	32	28	25
28	104	56	56	62	28	30	77	.40	2.7	1.9	28	24
29	112	29	64	62	------	30	86	.37	2.2	1.1	27	25
30	129	28	63	43	------	40	83	.37	2.0	.32	26	24
31	142	------	63	29	------	48	------	6.1	------	.32	13	------
TOTAL	2,278.0	2,918	1,435	1,293	1,025	1,113	2,411	63.14	1,879.1	338.64	1,655.74	1,020.26
MEAN	73.5	97.3	46.3	41.7	36.6	35.9	80.4	2.04	62.6	10.9	53.4	34.0
MAX	142	139	75	67	48	65	94	34	182	78	175	159
MIN	3.5	28	28	27	28	28	58	.37	2.0	.32	.31	.28
CFSM	1.45	1.92	.91	.82	.72	.71	1.59	.04	1.23	.22	1.05	.67
IN.	1.67	2.14	1.05	.95	.75	.82	1.77	.05	1.38	.25	1.21	.75

CAL YR 1973 TOTAL 22,733.91 MEAN 62.3 MAX 199 MIN .34 CFSM 1.23 IN 16.68
WTR YR 1974 TOTAL 17,429.88 MEAN 47.8 MAX 182 MIN .28 CFSM .94 IN 12.79

04061000 BRULE RIVER NEAR FLORENCE, WIS.

LOCATION.--LAT 45°57'31", LONG 88°15'57", IN SE 1/4 SE 1/4 SEC.11, T.41 N., R.32 W., MICHIGAN MERIDIAN, IRON COUNTY, ON LEFT BANK 40 FT (12 M) UPSTREAM FROM HIGHWAY BRIDGE, 1.0 MI (1.6 KM) UPSTREAM FROM PAINT RIVER, 2.5 MI (4.0 KM) NORTH OF FLORENCE, AND 5.0 MI (8.0 KM) UPSTREAM FROM CONFLUENCE WITH MICHIGAMME RIVER.

DRAINAGE AREA.--389 MI^2 (1,008 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO FEBRUARY 1916, JUNE 1944 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,210 FT (369 M) FROM TOPOGRAPHIC MAP (NEAREST 10 FT). PRIOR TO AUG. 29, 1944, NONRECORDING GAGE AT BRIDGE 40 FT (12 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--31 YEARS, (1914-15, 1944-74), 361 FT^3/S (10.22 M^3/S), 12.60 IN/YR (320 MM/YR). 30 YEARS, (1914-15, 1944-73), 360 FT^3/S (10.20 M^3/S), 12.57 IN/YR (319 MM/YR); FIGURES PUBLISHED IN WATER RESOURCES DATA FOR WISCONSIN, 1973, IN ERROR.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,020 FT^3/S (28.9 M^3/S) APR. 19, MAY 23 (GAGE HEIGHT, 3.38 FT OR 1.030 M); MAXIMUM GAGE HEIGHT, 7.15 FT (2.179 M) DEC. 15 (BACKWATER FROM ICE); MINIMUM DISCHARGE, 233 FT^3/S (6.60 M^3/S) SEPT. 5-8 (GAGE HEIGHT, 2.04 FT OR 0.622 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 4,700 FT^3/S (133 M^3/S) JULY 2, 1953 (GAGE HEIGHT, 6.57 FT OR 2.003 M); MAXIMUM GAGE HEIGHT, 8.27 FT (2.521 M) DEC. 26, 1969 (BACKWATER FROM ICE); MINIMUM DISCHARGE, 118 FT^3/S (3.34 M^3/S) DEC. 2, 1963 (DISCHARGE MEASUREMENT); MINIMUM GAGE HEIGHT, 1.79 FT (0.546 M) JULY 24, 1964.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. DISCHARGE INCLUDES SOME MINE PUMPAGE.

REVISIONS (WATER YEARS).--WSP 1387: 1914-16. WSP 1911: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	461	327	310	335	300	305	493	701	370	253	253
2	323	440	329	310	330	305	310	452	587	343	274	263
3	325	405	325	310	320	310	315	433	516	332	344	248
4	368	381	328	310	315	330	315	427	499	326	515	240
5	355	360	310	315	310	355	325	407	466	314	640	238
6	336	367	290	315	305	380	340	390	457	333	513	235
7	325	371	280	310	300	400	350	373	485	288	416	236
8	321	354	300	305	300	410	345	356	500	270	358	239
9	333	250	350	300	300	400	339	344	506	265	323	277
10	382	280	330	295	300	390	338	336	606	267	299	480
11	390	310	300	295	300	380	393	407	578	261	293	468
12	372	320	290	290	300	370	562	502	498	256	296	412
13	358	323	280	285	300	360	815	468	433	257	303	375
14	350	328	275	290	300	355	830	444	392	264	303	351
15	343	325	270	295	300	350	698	460	406	258	359	316
16	325	318	265	300	295	345	678	441	517	248	372	288
17	316	314	270	305	295	340	792	410	511	271	376	269
18	311	317	280	310	290	335	953	388	474	325	335	261
19	315	316	300	320	290	330	1,010	368	425	281	335	283
20	310	314	310	325	290	325	918	350	395	256	303	292
21	313	361	290	325	290	310	909	341	365	246	278	280
22	310	429	300	330	290	260	946	617	344	339	273	273
23	306	413	320	330	290	265	907	994	330	371	260	263
24	304	378	310	340	290	270	788	853	317	319	256	255
25	309	369	310	345	290	285	704	672	304	335	251	264
26	304	359	310	350	290	300	657	565	293	325	302	266
27	336	379	320	350	295	310	617	500	287	324	336	260
28	544	401	335	350	295	310	591	471	277	301	318	254
29	534	375	330	350	------	315	561	451	287	274	287	284
30	447	351	315	350	------	315	525	427	387	268	263	293
31	415	------	305	345	------	310	------	600	------	263	258	------
TOTAL	10,916	10,669	9,454	9,860	8,405	10,320	18,136	14,740	13,143	9,150	10,292	8,716
MEAN	352	356	305	318	300	333	605	475	438	295	332	291
MAX	544	461	350	350	335	410	1,010	994	701	371	640	480
MIN	304	250	265	285	290	260	305	336	277	246	251	235
CFSM	.90	.92	.78	.82	.77	.86	1.56	1.22	1.13	.76	.85	.75
IN.	1.04	1.02	.90	.94	.80	.99	1.73	1.41	1.26	.88	.98	.83

CAL YR 1973 TOTAL 174,419 MEAN 478 MAX 1,630 MIN 250 CFSM 1.23 IN 16.68
WTR YR 1974 TOTAL 133,801 MEAN 367 MAX 1,010 MIN 235 CFSM .94 IN 12.80

04063000 MENOMINEE RIVER NEAR FLORENCE, WIS.

LOCATION.--LAT 45°57'04", LONG 88°11'13", IN NE 1/4 SEC.16, T.41 N., R.31 W., MICHIGAN MERIDIAN, IRON COUNTY, ON LEFT BANK 0.5 MI (0.8 KM) DOWNSTREAM FROM CONFLUENCE OF BRULE AND MICHIGAMME RIVERS, 3.5 MI (5.6 KM) NORTHEAST OF FLORENCE, AND AT MILE 117 (188 KM).

DRAINAGE AREA.--1,780 MI^2 (4,610 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO CURRENT YEAR. PUBLISHED AS "AT TWIN FALLS NEAR IRON MOUNTAIN, MICH." 1914-57. RECORDS PUBLISHED FOR BOTH SITES JULY 1950 TO SEPTEMBER 1957.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,120 FT (341 M), FROM TOPOGRAPHIC MAP (NEAREST 10 FT). PRIOR TO JULY 1950, HEADWATER AND TAILWATER GAGES AND GENERATION DATA ENTERED HOURLY IN DAILY LOG SHEETS BY COMPANY EMPLOYEES AT THE TWIN FALLS POWERPLANT OF WISCONSIN-MICHIGAN POWER CO., 10.4 MI (16.7 KM) DOWNSTREAM.

AVERAGE DISCHARGE.--60 YEARS, 1,801 FT^3/S (51.00 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 4,160 FT^3/S (118 M^3/S) APR. 23 (GAGE HEIGHT, 6.27 FT OR 1.911 M); MINIMUM, 230 FT^3/S (6.51 M^3/S) DEC. 26, JULY 14 (GAGE HEIGHT, 1.95 FT OR 0.594 M); MINIMUM DAILY, 787 FT^3/S (22.3 M^3/S) JULY 21.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 19,500 FT^3/S (552 M^3/S) APR. 26, 1960 (GAGE HEIGHT, 14.15 FT OR 4.313 M); MINIMUM, 38 FT^3/S (1.08 M^3/S) AUG. 21, 1962; MINIMUM GAGE HEIGHT, 1.18 FT (0.360 M) AUG. 21, 1962, NOV. 4, 1965; MINIMUM DAILY DISCHARGE, 154 FT^3/S (4.36 M^3/S) AUG. 9, 1925.

REMARKS.--RECORDS EXCELLENT. PRIOR TO JULY 1950 DISCHARGE DETERMINED FROM POWERPLANT RECORDS COMPUTED ON BASIS OF LOAD-DISCHARGE RATING OF HYDROELECTRIC UNITS AND RATING FOR TAILWATER GAGE DURING PERIODS OF SPILL. RATING DEVELOPED BY GEOLOGICAL SURVEY. FLOW REGULATED BY POWERPLANTS, AND BY MICHIGAMME RESERVOIR (CAPACITY, 119,950 ACRE-FT OR 148 HM^3) AND PEAVY POND (CAPACITY 33,860 ACRE-FT OR 41.7 HM^3) ON MICHIGAMME RIVER, AND BY MANY SMALLER RESERVOIRS ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 1707: 1953(M). WSP 1911: DRAINAGE AREA OF FORMER SITE.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,490	1,830	1,880	1,190	1,950	1,360	1,310	1,980	3,220	1,740	1,370	1,340
2	1,450	1,960	1,760	1,530	1,790	1,360	1,060	1,640	2,570	1,640	1,170	1,280
3	1,330	1,820	1,610	1,310	1,760	1,480	1,090	1,520	2,500	1,550	1,150	1,300
4	1,160	1,920	1,570	1,420	1,830	1,700	1,770	1,400	2,450	1,520	1,300	1,280
5	1,220	1,860	1,740	1,440	1,830	1,880	1,150	1,600	2,350	1,640	2,030	1,300
6	1,100	1,880	1,770	1,490	2,000	1,870	1,140	1,680	2,440	1,510	1,920	1,180
7	1,110	1,400	1,420	1,710	1,910	2,020	937	1,770	2,400	1,190	1,940	1,160
8	1,280	1,420	1,520	1,600	1,900	2,300	1,290	1,810	1,900	1,540	2,090	1,150
9	1,280	1,370	1,010	1,720	1,860	2,090	1,240	2,000	2,150	1,490	1,950	1,270
10	1,440	1,330	1,410	1,900	1,760	2,100	1,660	1,800	2,180	1,440	2,000	1,790
11	1,480	1,390	1,550	1,900	1,790	2,180	1,730	1,900	2,580	1,420	1,560	1,480
12	1,300	1,640	1,410	1,930	1,850	1,810	1,390	1,750	2,420	1,360	1,590	1,350
13	1,110	1,710	1,520	1,880	1,790	1,890	1,720	2,010	2,400	1,370	1,650	1,480
14	1,060	1,660	1,470	2,030	2,000	1,890	1,660	2,230	2,480	814	1,450	1,230
15	1,350	1,560	1,270	1,940	1,800	1,940	1,740	2,120	2,420	1,630	1,590	1,350
16	1,340	1,460	1,070	2,190	1,900	1,850	2,560	2,360	2,630	1,320	1,870	1,350
17	1,300	1,360	1,560	1,880	1,850	1,710	1,720	2,450	2,740	1,490	1,430	1,200
18	1,410	1,580	1,230	1,750	1,760	1,610	2,550	2,180	2,480	1,290	1,480	1,220
19	1,570	1,650	1,380	1,840	1,750	1,550	2,460	1,910	2,380	1,540	1,490	1,430
20	1,340	1,610	1,550	1,850	1,850	1,560	2,900	1,810	2,470	882	1,420	1,190
21	1,210	1,760	1,370	1,780	1,820	1,470	2,920	1,920	2,440	787	1,370	1,290
22	1,490	1,700	1,150	1,860	1,770	1,320	3,150	2,270	2,220	1,390	1,360	1,280
23	1,440	1,300	1,310	1,760	1,710	1,250	3,820	2,950	1,700	1,440	1,320	1,400
24	1,450	1,050	1,380	1,870	1,460	957	3,490	3,590	1,810	1,400	1,290	1,370
25	1,510	1,180	1,390	1,750	1,770	1,070	2,770	3,550	1,650	1,260	1,310	1,510
26	1,390	1,580	1,490	1,640	1,580	1,150	2,570	3,630	1,440	1,430	1,560	1,600
27	1,280	1,630	1,610	1,800	1,470	1,750	2,520	3,640	1,410	1,070	1,400	1,140
28	1,720	1,520	1,640	1,740	1,580	1,840	2,280	3,400	1,380	794	1,390	1,030
29	1,790	1,780	1,350	1,820	------	2,420	2,390	2,460	1,300	1,420	1,450	969
30	1,610	1,850	1,240	1,790	------	1,370	2,350	2,540	1,660	1,390	1,360	1,250
31	1,670	------	1,550	1,840	------	1,370	------	3,130	------	1,380	1,350	------
TOTAL	42,680	47,760	45,180	54,150	50,090	52,117	61,337	71,000	66,170	42,137	47,610	39,169
MEAN	1,377	1,592	1,457	1,747	1,789	1,681	2,045	2,290	2,206	1,359	1,536	1,306
MAX	1,790	1,960	1,880	2,190	2,000	2,420	3,820	3,640	3,220	1,740	2,090	1,790
MIN	1,060	1,050	1,010	1,190	1,460	957	937	1,400	1,300	787	1,150	969
CFSM	.77	.89	.82	.98	1.01	.94	1.15	1.29	1.24	.76	.86	.73
IN.	.89	1.00	.94	1.13	1.05	1.09	1.28	1.48	1.38	.88	.99	.82

CAL YR 1973 TOTAL 864,540 MEAN 2,369 MAX 9,150 MIN 847 CFSM 1.33 IN 18.07
WTR YR 1974 TOTAL 619,400 MEAN 1,697 MAX 3,820 MIN 787 CFSM .95 IN 12.94

04063700 POPPLE RIVER NEAR FENCE, WIS.
(HYDROLOGIC BENCHMARK STATION)

LOCATION.--LAT 45°45'49", LONG 88°27'47", IN NW 1/4 SEC.23, T.38 N., R.16 E., FLORENCE COUNTY, ON LEFT BANK 20 FT (6 M) UPSTREAM FROM BRIDGE ON U. S. FOREST SERVICE ROAD 2159, 1.8 MI (2.9 KM) DOWNSTREAM FROM MUD CREEK, 2.6 MI (4.2 KM) NORTHWEST OF FENCE, AND 11.5 MI (18.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--131 MI^2 (339 KM^2).

PERIOD OF RECORD.--OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,406.16 FT (428.598 M) ABOVE MEAN SEA LEVEL. PRIOR TO JUNE 18, 1964, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--11 YEARS, 125 FT^3/S (3.54 M^3/S) 12.96 IN/YR (329 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, ABOUT 600 FT^3/S (17.0 M^3/S) APR. 18; MINIMUM, 31 FT^3/S (0.878 M^3/S) SEPT. 6, GAGE HEIGHT, 1.23 FT (0.375 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,120 FT^3/S (31.7 M^3/S) MAY 2, 1972, GAGE HEIGHT, 4.21 FT (1.283 M); MINIMUM, 15 FT^3/S (0.42 M^3/S) JULY 19, 23, 24, 1964, GAGE HEIGHT, 1.04 FT (0.317 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. RECORDS OF CHEMICAL AND BIOLOGICAL ANALYSES, WATER TEMPERATURES, AND SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 6, 7, NOV. 30 TO DEC. 3, DEC. 6 TO APR. 1.)

1.0	17	2.6	360
1.4	50	3.0	520
1.8	120	3.7	860
2.2	230		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	188	110	39	35	48	47	215	176	59	39	41
2	66	185	100	39	35	49	49	191	168	52	44	39
3	64	170	90	38	35	52	58	170	142	50	88	37
4	74	150	77	38	35	54	71	158	118	49	150	35
5	78	135	71	38	35	60	72	148	102	47	176	34
6	78	130	80	38	35	68	74	140	94	44	176	33
7	72	110	76	38	35	76	76	122	110	40	168	33
8	72	92	72	37	35	76	77	110	122	38	155	33
9	84	84	70	37	35	70	77	98	152	37	132	47
10	98	78	66	37	35	66	80	92	209	40	116	118
11	100	78	62	37	35	62	84	112	218	46	100	138
12	104	80	60	37	36	60	110	150	203	39	92	145
13	102	82	58	37	37	58	210	162	182	34	82	145
14	96	84	56	37	38	56	400	160	148	41	74	145
15	92	84	54	37	38	56	520	165	135	48	65	145
16	86	80	52	37	38	54	560	162	168	41	80	140
17	80	80	50	37	38	52	580	152	188	39	96	122
18	77	78	48	37	38	52	600	138	185	42	106	102
19	77	78	47	36	38	50	580	122	160	40	88	94
20	74	76	45	36	38	50	540	108	132	36	80	84
21	72	94	44	36	40	49	500	100	110	38	68	74
22	70	125	43	36	40	47	464	116	90	54	59	66
23	71	135	42	36	41	46	444	140	76	58	62	60
24	68	132	42	36	41	45	424	142	70	49	80	58
25	68	125	42	36	42	44	388	138	62	62	53	60
26	65	120	42	36	45	44	348	120	56	71	53	60
27	71	125	41	36	46	43	311	104	52	68	114	54
28	116	135	40	36	47	43	284	102	52	60	70	53
29	158	128	40	35	------	44	260	90	48	60	48	64
30	173	120	40	35	------	44	233	84	59	50	42	72
31	179	------	40	35	------	45	------	140	------	43	42	------
TOTAL	2,753	3,361	1,800	1,140	1,066	1,663	8,521	4,151	3,787	1,475	2,798	2,331
MEAN	88.8	112	58.1	36.8	38.1	53.6	284	134	126	47.6	90.3	77.7
MAX	179	188	110	39	47	76	600	215	218	71	176	145
MIN	64	76	40	35	35	43	47	84	48	34	39	33
CFSM	.68	.86	.44	.28	.29	.41	2.17	1.02	.96	.36	.69	.59
IN.	.78	.95	.51	.32	.30	.47	2.42	1.18	1.08	.42	.79	.66

CAL YR 1973 TOTAL 59,038 MEAN 162 MAX 665 MIN 40 CFSM 1.24 IN 16.76
WTR YR 1974 TOTAL 34,846 MEAN 95.5 MAX 600 MIN 33 CFSM .73 IN 9.90

PEAK DISCHARGE (BASE, 300 FT^3/S).--APR. 18 (TIME UNKNOWN) ABOUT 600 FT^3/S.

NOTE.--NO GAGE-HEIGHT RECORD APR. 12-22.

04064500 PINE RIVER BELOW PINE RIVER POWERPLANT, NEAR FLORENCE, WIS.

LOCATION.--LAT 45°50'16", LONG 88°13'31", IN SW 1/4 SEC.22, T.39 N., R.18 E., FLORENCE COUNTY, ON LEFT BANK 60 FT (18 M) UPSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY N, 1.9 MI (3.1 KM) DOWNSTREAM FROM POWERPLANT OF WISCONSIN-MICHIGAN POWER CO., 6.0 MI (9.7 KM) SOUTH OF FLORENCE, AND 7.0 MI (11.3 KM) DOWNSTREAM FROM POPPLE RIVER.

DRAINAGE AREA.--528 MI^2 (1,368 KM^2).

PERIOD OF RECORD.--OCTOBER 1923 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,098.84 FT (334.926 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCTOBER 1968, RECORD OBTAINED FROM PINE RIVER POWERPLANT 1.9 MI (3.1 KM) UPSTREAM WITH A DRAINAGE AREA OF 528 MI^2 (1,368 KM^2).

AVERAGE DISCHARGE.--51 YEARS, 430 FT^3/S (12.18 M^3/S) 11.06 IN/YR (281 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,490 FT^3/S (42.2 M^3/S) APR. 22, GAGE HEIGHT, 5.12 FT (1.561 M); MAXIMUM GAGE HEIGHT, 5.26 FT (1.603 M) DEC. 17, BACKWATER FROM ICE; MINIMUM DAILY DISCHARGE, 148 FT^3/S (4.19 M^3/S) SEPT. 6.
PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE, 4,380 FT^3/S (124 M^3/S) APR. 9, 1929; NO FLOW AT TIMES DURING 1924, 1926-27, 1930-31, 1933, 1940.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS AND THOSE FOR THE PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR. FLOW REGULATED BY PINE RIVER POWERPLANT 1.9 MI (3.1 KM) UPSTREAM; SINCE STORAGE CAPACITY IS SMALL, MONTHLY FLOWS ARE NOT AFFECTED APPRECIABLY.

REVISIONS (WATER YEARS).--WSP 1237: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 14 TO MAR. 29.)

1.8	128	4.5	1,130
2.5	305	5.5	1,690
3.5	665		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	367	621	356	250	260	240	216	715	721	320	170	174
2	379	613	413	280	240	230	219	642	635	280	177	189
3	362	572	362	240	240	250	231	633	523	260	177	205
4	287	487	365	220	240	270	317	564	498	250	522	170
5	351	476	317	220	240	290	323	514	412	230	551	152
6	290	390	218	220	240	310	362	538	334	210	631	148
7	312	304	309	240	240	300	323	502	363	190	620	173
8	353	357	378	220	240	310	451	367	467	260	531	169
9	353	310	391	180	220	300	472	396	504	150	489	215
10	466	262	345	160	200	330	437	370	738	200	432	576
11	368	287	349	180	240	330	482	470	771	200	325	655
12	371	403	344	220	220	330	824	588	705	190	358	721
13	372	310	293	200	220	330	1,250	638	586	200	341	677
14	320	374	260	220	220	330	1,260	606	540	170	223	600
15	372	319	250	220	210	310	1,160	590	490	200	288	531
16	336	342	240	220	200	300	1,070	619	620	190	332	454
17	350	281	230	200	220	280	1,150	550	640	210	396	405
18	258	314	250	220	220	270	1,270	430	620	230	333	317
19	278	293	250	230	220	270	1,330	483	580	180	329	313
20	327	336	250	230	210	230	1,280	403	500	190	300	302
21	281	369	250	240	210	220	1,290	373	410	150	279	276
22	237	469	260	250	220	220	1,400	488	320	230	229	258
23	282	527	280	220	200	220	1,430	531	330	280	212	255
24	247	478	280	260	200	200	1,240	667	300	275	212	210
25	281	461	290	260	220	220	1,170	682	230	264	212	257
26	244	500	300	260	220	210	1,080	643	250	352	234	195
27	268	471	270	260	220	220	975	542	210	303	275	207
28	514	476	270	260	220	220	887	484	200	272	286	194
29	627	467	270	240	------	210	844	389	190	199	242	231
30	631	458	280	260	------	194	771	377	320	194	213	230
31	632	------	260	250	------	215	------	568	------	175	188	------
TOTAL	11,116	12,327	9,180	7,130	6,250	8,159	25,514	16,362	14,007	7,004	10,107	9,459
MEAN	359	411	296	230	223	263	850	528	467	226	326	315
MAX	632	621	413	280	260	330	1,430	715	771	352	631	721
MIN	237	262	218	160	200	194	216	367	190	150	170	148
CFSM	.68	.78	.56	.44	.42	.50	1.61	1.00	.88	.43	.62	.60
IN.	.78	.87	.65	.50	.44	.57	1.80	1.15	.99	.49	.71	.67

CAL YR 1973 TOTAL 220,595 MEAN 604 MAX 2,230 MIN 192 CFSM 1.14 IN 15.54
WTR YR 1974 TOTAL 136,615 MEAN 374 MAX 1,430 MIN 148 CFSM .71 IN 9.63

NOTE.--NO GAGE-HEIGHT RECORD JUNE 14 TO JULY 23.

04066000 MENOMINEE RIVER NEAR PEMBINE, WIS.

LOCATION.--LAT 45°35'56", LONG 87°46'32", IN SEC.16, T.37 N., R.28 W., MICHIGAN MERIDIAN, MENOMINEE COUNTY, MICH., ON LEFT BANK 0.6 MI (1.0 KM) UPSTREAM FROM PEMENE CREEK, 4.0 MI (6.4 KM) WEST OF NATHAN, MICH., 15 MI (24 KM) SOUTHEAST OF PEMBINE, AND AT MILE 65.8 (105.9 KM).

DRAINAGE AREA.--3,240 MI^2 (8,390 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--OCTOBER 1949 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1307.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 770 FT (235 M), FROM RIVER-PROFILE MAP. PRIOR TO OCT. 28, 1972, AT SITE 0.5 MI (0.8 KM) DOWNSTREAM AT DATUM 15 FT (4.6 M) LOWER.

AVERAGE DISCHARGE.--25 YEARS, 3,008 FT^3/S (85.19 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 8,640 FT^3/S (245 M^3/S) APR. 23, GAGE HEIGHT, 12.30 FT (3.749 M); MINIMUM, 1,330 FT^3/S (37.7 M^3/S) MAR. 31, GAGE HEIGHT, 7.15 FT (2.179 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 26,900 FT^3/S (762 M^3/S) MAY 8, 1960, GAGE HEIGHT, 13.90 FT (4.237 M); MINIMUM, 694 FT^3/S (19.7 M^3/S) SEPT. 3, 1969, GAGE HEIGHT, 1.66 FT (0.506 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. FLOW REGULATED BY POWERPLANTS AND BY MICHIGAMME RESERVOIR, CAPACITY, 119,950 ACRE-FT (148 HM^3), AND PEAVY POND, CAPACITY, 33,860 ACRE-FT (41.7 HM^3), ON THE MICHIGAMME RIVER, AND BY MANY SMALLER RESERVOIRS ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 1277: 1952.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 6 TO MAR. 5 AND MAR. 22-25.)

OCT. 1 TO MAR. 28				MAR. 29 TO SEPT. 30			
7.5	1,420	10.0	4,500	7.0	1,210	10.0	4,590
9.0	2,900	11.0	6,820	8.0	2,110	11.0	6,190
				9.0	3,230	12.0	8,030

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,270	3,230	3,300	1,800	2,500	1,900	1,500	3,540	5,260	2,260	1,820	2,140
2	2,070	3,710	3,100	1,900	2,600	2,100	1,680	3,320	4,570	2,420	1,980	1,910
3	2,270	3,500	2,900	2,000	2,400	1,900	2,110	3,160	3,770	2,350	2,330	1,750
4	2,170	3,630	2,900	2,100	2,300	2,000	3,170	2,800	3,840	2,600	2,440	1,820
5	2,230	3,030	3,300	1,700	2,300	2,300	3,050	2,600	3,560	2,440	3,010	1,770
6	2,190	3,010	2,700	2,100	2,400	2,810	2,920	2,740	3,390	2,030	3,460	1,830
7	1,800	3,260	2,500	1,900	2,400	3,110	3,950	2,820	3,240	1,790	3,210	1,690
8	1,870	3,070	2,400	2,100	2,300	3,200	4,030	2,980	3,240	2,080	3,260	1,630
9	2,370	2,500	2,100	2,300	2,200	3,210	3,590	2,890	2,980	2,200	3,090	1,780
10	2,190	2,700	1,800	2,000	2,600	3,140	3,910	2,750	3,690	2,360	2,830	3,150
11	2,810	2,400	2,000	2,200	2,200	3,200	4,670	2,870	4,070	2,420	2,790	4,080
12	2,490	2,300	2,200	2,000	2,300	3,120	4,780	3,260	3,900	2,140	2,410	3,800
13	2,310	2,300	2,300	2,500	2,400	2,850	5,790	3,280	3,800	2,040	2,480	3,500
14	2,200	3,000	2,400	2,500	2,400	2,840	6,910	3,640	3,610	2,070	2,320	3,290
15	2,240	2,900	2,300	2,300	2,300	2,730	6,760	3,650	3,560	1,970	2,120	2,800
16	2,240	2,600	2,000	2,600	2,500	2,650	6,830	3,720	4,030	1,850	2,690	2,650
17	2,360	2,400	2,200	2,500	2,400	2,690	6,380	3,510	4,780	1,940	2,970	2,460
18	2,270	2,200	2,000	2,300	2,400	2,620	6,350	3,600	4,650	2,160	2,800	2,170
19	2,260	2,600	2,100	2,300	2,400	2,370	6,500	3,160	4,190	2,310	2,380	2,190
20	2,440	2,800	2,200	2,500	2,300	2,250	6,280	2,740	4,100	2,080	2,400	1,980
21	2,250	3,200	2,100	2,300	2,200	2,040	6,650	2,800	3,860	1,660	2,370	2,200
22	2,080	3,400	2,000	2,500	2,300	1,900	6,080	3,120	3,340	1,630	2,830	2,070
23	2,260	3,400	2,000	2,400	2,400	1,800	7,030	3,440	2,940	1,900	2,710	2,160
24	2,250	3,300	2,100	2,200	2,200	1,700	6,070	4,150	2,650	2,100	2,320	2,240
25	2,310	3,000	1,900	2,500	2,100	1,700	5,270	4,410	2,360	2,200	2,150	2,160
26	2,290	3,100	2,100	2,400	2,100	1,790	4,570	4,200	2,090	2,400	2,160	2,230
27	2,370	3,300	2,400	2,400	2,300	1,950	4,520	4,370	2,120	2,340	2,850	2,350
28	2,590	2,900	2,400	2,100	2,100	2,210	4,090	3,960	2,030	1,810	2,520	1,800
29	3,050	3,100	2,300	2,300	------	2,600	4,120	3,660	2,090	1,700	2,000	1,800
30	3,680	3,300	2,200	2,600	------	2,110	3,770	3,310	2,210	1,970	2,230	1,770
31	3,460	------	2,000	2,400	------	1,360	------	3,690	------	1,890	2,230	------
TOTAL	73,640	89,140	72,200	69,700	65,300	74,150	143,330	104,140	103,920	65,110	79,160	69,170
MEAN	2,375	2,971	2,329	2,248	2,332	2,392	4,778	3,359	3,464	2,100	2,554	2,306
MAX	3,680	3,710	3,300	2,600	2,600	3,210	7,030	4,410	5,260	2,600	3,460	4,080
MIN	1,800	2,200	1,800	1,700	2,100	1,360	1,500	2,600	2,030	1,630	1,820	1,630

CAL YR 1973 TOTAL 1,453,280 MEAN 3,982 MAX 16,000 MIN 1,480
WTR YR 1974 TOTAL 1,008,960 MEAN 2,764 MAX 7,030 MIN 1,360

NOTE.--NO GAGE-HEIGHT RECORD NOV. 9 TO DEC. 14.

04067000 MENOMINEE RIVER BELOW KOSS, MICH.

LOCATION.--LAT 45°21'16", LONG 87°38'55", IN SEC.9, T.34 N., R.27 W., MICHIGAN MERIDIAN, MENOMINEE COUNTY, ON LEFT BANK AT POWERPLANT OF WISCONSIN PUBLIC SERVICE CORP., 0.5 MI (0.8 KM) UPSTREAM FROM LITTLE CEDAR RIVER, 3.6 MI (5.8 KM) SOUTHEAST OF KOSS, AND AT MILE 24.7 (39.7 KM).

DRAINAGE AREA.--3,790 MI^2 (9,820 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JULY 1907 TO MARCH 1909 (PUBLISHED AS "AT KOSS"), JULY 1913 TO CURRENT YEAR.

GAGE.--HEADWATER AND TAILWATER GAGES AND GENERATION DATA ENTERED HOURLY IN DAILY LOG SHEET BY COMPANY EMPLOYEES. PRIOR TO JUNE 1913, CHAIN GAGE ON RAILROAD BRIDGE 4 MI (6.4 KM) UPSTREAM.

AVERAGE DISCHARGE.--62 YEARS (1907-8, 1913-74), 3,151 FT^3/S (89.24 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DAILY DISCHARGE, 7,800 FT^3/S (221 M^3/S) APR. 15; MINIMUM DAILY, 1,600 FT^3/S (45.3 M^3/S) AUG. 2.

PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE, 33,000 FT^3/S (935 M^3/S) MAY 10, 1960; MINIMUM DAILY, 162 FT^3/S (4.59 M^3/S) SEPT. 15, 1931.

REMARKS.--RECORDS FAIR. DAILY DISCHARGE COMPUTED ON BASIS OF AVERAGE DAILY LOAD AND LOAD-DISCHARGE RATING OF COMBINED HYDROELECTRIC UNITS. FLOW REGULATED BY POWERPLANTS, AND BY MICHIGAMME RESERVOIR, CAPACITY, 119,950 ACRE-FT (148 HM^3), AND PEAVY POND, CAPACITY, 33,860 ACRE-FT (41.7 HM^3) ON MICHIGAMME RIVER, AND BY MANY SMALLER RESERVOIRS ABOVE STATION.

COOPERATION.--RECORDS OF DAILY DISCHARGE FURNISHED BY WISCONSIN PUBLIC SERVICE CORP. SINCE 1913.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,130	3,450	3,220	1,770	2,400	2,100	1,860	4,740	5,530	2,500	2,280	2,500
2	2,160	3,500	3,120	1,870	2,580	1,970	1,870	3,630	5,820	2,500	1,600	2,280
3	2,080	3,940	3,000	1,870	2,500	2,130	2,210	3,440	4,830	2,500	2,450	2,160
4	2,040	3,480	2,800	2,000	2,350	2,080	2,880	3,440	4,310	2,650	2,930	1,920
5	1,970	3,360	2,800	2,020	2,220	2,080	2,810	3,120	3,920	2,480	3,070	1,910
6	2,030	3,320	3,280	1,720	2,300	2,380	3,000	3,000	3,480	2,500	3,720	1,730
7	2,000	3,400	2,620	1,910	2,450	2,920	3,240	3,060	3,400	2,090	4,060	1,970
8	1,800	2,680	2,400	1,870	2,380	3,160	3,120	3,300	3,480	1,940	3,740	1,930
9	2,020	2,210	2,400	2,050	2,300	3,300	3,080	3,120	3,710	2,120	3,740	1,690
10	2,680	2,690	2,140	2,160	2,300	3,240	3,360	3,000	3,790	2,350	3,240	2,830
11	2,380	2,500	1,670	2,090	2,300	3,240	3,480	3,120	5,070	2,400	2,940	5,370
12	2,880	2,280	2,000	2,090	2,400	3,530	3,720	3,710	4,780	2,570	2,820	5,320
13	2,500	2,280	2,210	2,160	2,360	3,080	5,460	3,880	4,160	2,220	2,700	5,440
14	2,600	2,220	2,190	2,300	2,280	3,070	7,500	4,150	4,070	2,160	2,770	4,780
15	2,210	2,880	2,300	2,500	2,220	2,880	7,800	4,420	3,770	2,050	2,620	3,760
16	2,110	2,770	2,250	2,400	2,300	3,000	7,580	4,070	4,700	2,060	2,090	3,190
17	2,120	2,430	1,980	2,300	2,310	3,060	7,610	4,360	4,700	1,900	4,330	3,120
18	2,440	2,290	2,110	2,500	2,450	2,980	6,890	4,170	4,800	2,050	3,050	2,660
19	2,110	2,120	1,930	2,400	2,400	2,990	6,560	3,840	4,940	2,080	3,190	2,500
20	2,300	2,670	2,080	2,520	2,450	2,920	7,220	3,240	4,500	1,840	2,620	2,450
21	2,400	2,720	2,160	2,450	2,260	2,450	6,780	3,280	4,520	1,980	3,000	2,280
22	2,110	3,210	2,030	2,220	2,200	2,200	6,290	3,360	4,300	1,640	3,870	2,380
23	2,280	3,360	1,930	2,350	2,150	2,060	7,420	3,600	3,360	1,720	4,720	2,400
24	2,300	3,360	2,120	2,380	2,380	1,790	7,440	3,600	2,760	2,020	3,360	2,300
25	2,210	3,210	2,120	2,310	2,120	1,840	6,060	4,450	3,140	2,280	3,000	2,430
26	2,160	2,890	2,180	2,440	2,110	1,940	5,550	4,450	2,550	2,500	2,780	2,300
27	2,310	2,920	2,330	2,400	2,050	1,870	4,610	5,010	2,040	2,500	2,950	2,400
28	2,800	3,300	2,500	2,320	2,150	2,160	4,900	4,580	2,260	2,220	3,440	2,440
29	2,900	2,810	2,330	2,360	------	2,460	5,060	4,030	2,160	1,800	2,760	2,120
30	3,360	3,110	2,320	2,420	------	2,780	4,850	4,160	2,220	1,730	2,310	1,810
31	3,840	------	2,020	2,500	------	2,620	------	4,110	------	2,000	2,380	------
TOTAL	73,230	87,360	72,540	68,650	64,670	80,280	150,210	117,440	117,070	67,350	94,530	82,370
MEAN	2,362	2,912	2,340	2,215	2,310	2,590	5,007	3,788	3,902	2,173	3,049	2,746
MAX	3,840	3,940	3,280	2,520	2,580	3,530	7,800	5,010	5,820	2,650	4,720	5,440
MIN	1,800	2,120	1,670	1,720	2,050	1,790	1,860	3,000	2,040	1,640	1,600	1,690

CAL YR 1973 TOTAL 1,577,120 MEAN 4,321 MAX 17,600 MIN 1,670
WTR YR 1974 TOTAL 1,075,700 MEAN 2,947 MAX 7,800 MIN 1,600

04069500 PESHTIGO RIVER AT PESHTIGO, WIS.

LOCATION.--LAT 45°02'49", LONG 87°44'40", IN NE 1/4 SEC.30, T.30 N., R.23 E., MARINETTE COUNTY, ON LEFT BANK 75 FT (23 M) DOWNSTREAM FROM CHICAGO AND NORTHWESTERN RAILWAY BRIDGE, 0.5 MI (0.8 KM) DOWNSTREAM FROM WISCONSIN PUBLIC SERVICE CORP. POWERPLANT AT PESHTIGO, AND 11.5 MI (18.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--1,124 MI^2 (2,911 KM^2).

PERIOD OF RECORD.--JUNE 1953 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 584.64 FT (178.198 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--21 YEARS, 924 FT^3/S (26.17 M^3/S), 11.16 IN/YR (283 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,960 FT^3/S (112 M^3/S) APR. 14, GAGE HEIGHT, 7.46 FT (2.274 M); MINIMUM, 105 FT^3/S (2.97 M^3/S) OCT. 2, GAGE HEIGHT, 1.28 FT (0.390 M); MINIMUM DAILY, 251 FT^3/S (7.11 M^3/S) JULY 21.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 9,790 FT^3/S (277 M^3/S) MAY 9, 1960, GAGE HEIGHT, 11.59 FT (3.533 M), FROM RATING CURVE EXTENDED ABOVE 5,000 FT^3/S (142 M^3/S) ON BASIS OF COMPUTATION OF PEAK FLOW THROUGH DAM GATES; MINIMUM, 17 FT^3/S (0.48 M^3/S) NOV. 29, 1966, GAGE HEIGHT, 1.00 FT (0.305 M); MINIMUM DAILY, 84 FT^3/S (2.38 M^3/S) AUG. 5, 1957.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. DIURNAL FLUCTUATION CAUSED BY POWERPLANTS UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND)
(SHIFTING-CONTROL METHOD USED AUG. 25 TO SEPT. 30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9 TO MAR. 3, MAR. 19-22.)

1.5	170	3.5	1,000
1.9	292	5.0	1,990
2.5	515	7.0	3,590

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	660	1,560	1,000	580	520	460	433	1,210	869	871	374	723
2	685	1,630	941	620	440	480	746	1,060	1,080	771	289	504
3	745	1,410	716	680	480	540	762	1,080	955	741	563	532
4	790	1,440	1,340	600	500	668	1,340	1,000	1,040	851	1,300	492
5	760	1,060	1,360	640	520	755	1,610	873	792	757	2,300	551
6	730	912	1,200	580	480	991	1,600	934	760	828	2,590	553
7	680	805	594	500	450	1,460	1,870	996	702	659	2,400	503
8	601	787	592	520	430	1,840	2,050	809	783	445	2,070	501
9	720	820	780	540	460	2,020	1,880	839	885	795	1,390	463
10	1,030	775	700	580	400	1,960	1,720	742	1,770	621	1,020	558
11	1,150	628	660	600	370	1,870	1,720	760	2,330	403	909	1,080
12	1,070	658	740	500	410	1,830	2,040	1,170	2,060	447	942	1,480
13	1,060	790	700	430	460	1,880	2,840	1,510	1,790	537	668	1,850
14	900	829	640	400	420	1,770	3,540	1,510	1,540	477	846	1,870
15	885	911	620	420	400	1,730	3,490	1,850	1,230	425	706	1,850
16	890	858	660	450	390	1,480	3,340	1,350	1,740	419	1,060	1,270
17	820	690	600	500	380	1,120	3,030	1,230	1,950	464	1,350	1,390
18	620	706	580	450	400	1,020	2,820	1,060	1,940	550	1,330	1,360
19	765	717	620	400	470	900	2,500	921	2,040	451	1,310	1,380
20	675	829	560	440	440	820	2,120	986	1,570	425	1,570	1,270
21	680	977	540	350	460	740	2,120	997	1,140	251	1,260	1,250
22	550	1,230	620	390	500	640	2,100	1,170	1,050	305	1,430	1,110
23	702	1,280	580	460	470	570	2,240	1,020	894	514	2,380	951
24	619	1,460	540	500	450	517	2,050	1,220	546	508	1,950	930
25	713	1,560	540	500	440	446	1,760	871	588	542	1,610	1,050
26	661	1,290	560	470	440	646	1,500	894	664	513	1,070	967
27	747	1,180	600	430	460	612	1,780	686	641	671	961	894
28	1,310	1,190	640	380	500	538	1,390	791	560	472	825	1,010
29	1,560	1,110	600	410	------	584	1,050	729	537	455	625	922
30	1,560	1,020	560	450	------	716	999	735	667	453	685	861
31	1,730	------	540	490	------	597	------	822	------	423	717	------
TOTAL	27,068	31,112	21,923	15,260	12,540	32,200	58,440	31,825	35,113	17,044	38,500	30,125
MEAN	873	1,037	707	492	448	1,039	1,948	1,027	1,170	550	1,242	1,004
MAX	1,730	1,630	1,360	680	520	2,020	3,540	1,850	2,330	871	2,590	1,870
MIN	550	628	540	350	370	446	433	686	537	251	289	463
CFSM	.78	.92	.63	.44	.40	.92	1.73	.91	1.04	.49	1.11	.89
IN.	.90	1.03	.73	.51	.42	1.07	1.93	1.05	1.16	.56	1.27	1.00

CAL YR 1973 TOTAL 559,513 MEAN 1,533 MAX 7,040 MIN 423 CFSM 1.36 IN 18.52
WTR YR 1974 TOTAL 351,150 MEAN 962 MAX 3,540 MIN 251 CFSM .86 IN 11.62

04070000 WHEELER LAKE NEAR LAKEWOOD, WIS.

LOCATION.--LAT 45°19'07", LONG 88°28'58", IN NW 1/4 SEC.27, T.33 N., R.16 E., OCONTO COUNTY, NEAR THE HOME OF CARL ZUELZKE ON WEST SHORE OF LAKE 2.3 MI (3.7 KM) NORTHEAST OF LAKEWOOD.

DRAINAGE AREA.--2 MI^2 (5 KM^2), APPROXIMATELY. AREA OF WHEELER LAKE, 380 ACRES (1.54 KM^2).

PERIOD OF RECORD.--AUGUST 1936 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 90.00 FT (27.4 M) ABOVE DATUM ASSUMED BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES; GAGE READINGS HAVE BEEN REDUCED TO ELEVATIONS ABOVE THIS DATUM. PRIOR TO APR. 19, 1936, NONRECORDING GAGE WAS LOCATED ON EAST SHORE OF LAKE. APR. 20, 1939, TO APR. 13, 1960, NONRECORDING GAGE WAS LOCATED ON SOUTHWEST SHORE OF LAKE.

EXTREMES.--CURRENT YEAR: MAXIMUM ELEVATION OBSERVED, 6.87 FT (2.094 M) OCT. 3, APR. 22; MINIMUM OBSERVED, 6.05 FT (1.844 M) JULY 29.

PERIOD OF RECORD: MAXIMUM ELEVATION OBSERVED, 7.31 FT (2.228 M) JUNE 6, 1973; MINIMUM OBSERVED, 3.45 FT (1.052 M) FEB. 5, 1950.

REMARKS.--ADD 90 FT (27.4 M) TO OBTAIN ELEVATION ABOVE DATUM ASSUMED FOR THIS LAKE BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES. LAKE HAS NO SURFACE OUTLET. LAKE WAS ICE COVERED ABOUT DEC. 10 TO APR. 20.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3	6.87											
4			6.77						6.60			
5												
6								6.72				
7		6.77										
8												
9												
10	6.78		6.81						6.74			
11												
12												
13								6.74				
14		6.75										
15												
16												
17	6.83								6.76			
18												
19												
20												
21		6.81						6.62				
22							6.87					
23												
24							6.60	6.40				
25												
26												
27								6.62				
28		6.79										
29					------		6.80			6.05		
30					------							
31	6.85	------			------		------		------			------

04071000 OCONTO RIVER NEAR GILLETT, WIS.

LOCATION.--LAT 44°51'53", LONG 88°18'00", IN NW 1/4 SEC.34, T.28 N., R.18 E., OCONTO COUNTY, ON LEFT BANK 300 FT (91 M) UPSTREAM FROM COUNTY TRUNK HIGHWAY BB BRIDGE, 2.0 MI (3.2 KM) UPSTREAM FROM CHTISTY BROOK, 2.0 MI (3.2 KM) SOUTH OF GILLETT, AND AT MILE 29 (47 M).

DRAINAGE AREA.--678 MI^2 (1,756 KM^2)

PERIOD OF RECORD.--JUNE 1906 TO MARCH 1909, OCTOBER 1913 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1307.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 732.87 FT (223.379 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN DEPARTMENT OF TRANSPDRTATION). SEE WSP 1727 FOR HISTORY OF CHANGES PRIOR TO AUG. 25, 1938.

AVERAGE DISCHARGE.--63 YEARS (1906-8, 1913-74), 581 FT^3/S (16.45 M^3/S), 11.64 IN/YR (296 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,150 FT^3/S (60.9 M^3/S) APR. 15, GAGE HEIGHT, 4.08 (1.244 M); MAXIMUM GAGE HEIGHT, 5.21 FT (1.588 M) DEC. 13, BACKWATER FROM ICE; MINIMUM DISCHARGE, 295 FT^3/S (8.35 M^3/S) AUG. 1, 2, GAGE HEIGHT, 0.89 FT (0.271 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 8,400 FT^3/S (238 M^3/S) APR. 10, 1922, GAGE HEIGHT, 11.2 FT (3.41 M) FROM FLOODMARKS, CAUSED BY A FAILURE OF DAM AT PULCIFER 4 MI (6.4 KM) ABOVE STATION; MINIMUM, 93 FT^3/S (2.63 M^3/S) NOV. 26, 1941, GAGE HEIGHT, 0.13 FT (0.040 M), FLOW RETARDED BY ANCHOR ICE ABOVE STATION.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 384: DRAINAGE AREA. WSP 1207: 1922. WSP 1307: 1907-8(M), 1914-16(M), 1918-21(M), 1923-33(M), 1937-38(M), 1943(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 4 TO APR. 6.)

OCT. 1 TO APR. 22

1.0	330	3.0	1,410
1.5	559	4.0	2,070
2.0	820	5.0	2,770

APR. 23 TO SEPT. 30

0.8	270	2.0	780
1.4	480	3.0	1,360

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	535	914	720	380	370	490	460	774	581	498	297	506
2	508	880	682	380	370	540	480	716	628	458	300	485
3	480	830	666	380	370	600	520	695	590	460	375	441
4	471	780	640	380	380	660	580	690	557	574	550	433
5	467	740	620	370	380	720	680	704	493	577	702	432
6	471	697	600	370	380	800	880	694	493	507	756	382
7	467	639	580	370	380	820	1,140	672	533	441	761	365
8	468	596	560	370	380	840	1,180	641	545	399	686	383
9	477	579	560	370	380	860	1,190	611	674	381	565	357
10	493	616	540	370	380	840	1,170	582	901	369	472	376
11	532	600	540	360	380	820	1,130	622	965	357	488	400
12	612	582	520	360	380	800	1,220	732	1,040	346	460	478
13	659	591	520	360	380	760	1,390	821	1,040	340	493	599
14	639	593	500	360	380	720	1,810	932	927	328	461	643
15	605	600	500	360	380	680	2,090	964	811	331	428	655
16	571	598	480	360	380	640	2,120	943	833	361	435	549
17	541	599	480	360	380	600	1,970	887	959	369	597	470
18	514	600	470	360	380	580	1,740	809	1,040	325	790	451
19	501	598	460	360	380	540	1,500	756	1,060	325	852	446
20	497	598	450	360	380	520	1,360	704	1,010	323	802	412
21	488	675	450	360	380	500	1,290	675	895	315	619	404
22	482	756	440	360	390	490	1,240	766	771	321	642	396
23	477	824	440	360	390	480	1,170	778	672	329	724	388
24	473	869	440	360	390	460	1,150	794	606	335	828	372
25	474	880	430	360	400	450	1,110	745	558	385	884	372
26	471	866	430	360	410	440	1,060	717	523	429	832	372
27	492	852	420	360	430	440	997	677	493	454	705	380
28	678	820	410	360	450	430	936	612	443	345	604	390
29	795	785	400	360	------	430	886	562	423	339	568	410
30	858	757	390	360	------	430	843	511	467	328	533	420
31	906	------	390	370	------	440	------	529	------	301	506	------
TOTAL	17,102	21,314	15,728	11,310	10,810	18,820	35,292	22,315	21,531	11,950	18,715	13,167
MEAN	552	710	507	365	386	607	1,176	720	718	385	604	439
MAX	906	914	720	380	450	860	2,120	964	1,060	577	884	655
MIN	467	579	390	360	370	430	460	511	423	301	297	357
CFSM	.81	1.05	.75	.54	.57	.90	1.73	1.06	1.06	.57	.89	.65
IN.	.94	1.17	.86	.62	.59	1.03	1.94	1.22	1.18	.66	1.03	.72

CAL YR 1973 TOTAL 337,867 MEAN 926 MAX 4,700 MIN 390 CFSM 1.37 IN 18.54
WTR YR 1974 TOTAL 218,054 MEAN 597 MAX 2,120 MIN 297 CFSM .88 IN 11.96

PEAK DISCHARGE (BASE, 1,500 FT^3/S).--APR. 15 (2100) 2,150 FT^3/S (4.08 FT).

04071858 PENSAUKEE RIVER NEAR PENSAUKEE, WIS.

LOCATION.--LAT 44°49'08", LONG 87°57'12", IN NW 1/4 NE 1/4 SEC.16, T.27 N., R.21 E., OCONTO COUNTY, ON RIGHT BANK 300 FT (90 M) DOWNSTREAM FROM BRIDGE ON TOWN ROAD, 2.8 MI (4.5 KM) DOWNSTREAM FROM BROOKSIDE CREEK, 2.6 MI (4.2 KM) WEST OF PENSAUKEE. 3.5 MI (5.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--137 MI^2 (355 KM^2).

PERIOD OF RECORD.--OCTOBER 1972 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 600 FT (182.88 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 853 FT^3/S (24.2 M^3/S) APR. 13, GAGE HEIGHT, 6.61 FT (2.015 M); MAXIMUM GAGE HEIGHT, 8.80 FT (2.682 M) MAR. 7 (BACKWATER FROM ICE); MINIMUM DISCHARGE, 5.3 FT^3/S (0.15 M^3/S) SEPT. 30, GAGE HEIGHT, 2.43 FT (0.741 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,880 FT^3/S (110 M^3/S) MAY 29, 1973, GAGE HEIGHT, 12.97 FT (3.953 M); MINIMUM, 5.3 FT^3/S (0.15 M^3/S) SEPT. 14, 15, 1973, GAGE HEIGHT, 2.25 FT (0.686 M), SEPT. 30, 1974, GAGE HEIGHT, 2.43 FT (0.741 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (SHIFTING-CONTROL METHOD USED SEPT. 22-30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 2 TO APR. 2.)

2.2	2.2	4.0	244
2.4	16	6.0	700
3.0	82	8.0	1,270

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	88	30	7.0	8.4	22	25	46	35	29	14	12
2	13	66	27	7.0	8.4	25	40	42	32	29	12	11
3	12	51	25	6.8	8.4	32	251	40	29	32	12	11
4	13	41	23	6.8	8.4	60	670	39	27	94	34	11
5	14	36	21	6.6	8.2	150	698	40	25	98	26	9.5
6	15	30	19	6.6	8.2	400	426	60	23	60	21	8.8
7	14	29	18	6.6	8.2	700	570	62	23	37	19	8.5
8	14	27	17	6.6	8.2	520	704	53	23	28	16	7.6
9	17	26	16	6.6	8.4	350	480	45	32	23	13	7.2
10	24	25	15	6.6	8.4	270	322	41	195	19	12	7.2
11	26	24	14	6.6	8.4	210	255	62	385	17	12	6.6
12	25	23	13	6.6	8.4	180	415	106	365	15	14	7.7
13	22	23	13	6.4	8.4	160	808	96	238	14	12	11
14	19	24	12	6.4	8.4	140	712	157	155	14	11	12
15	16	27	12	6.4	8.4	120	832	219	117	13	10	12
16	15	29	11	6.4	8.6	110	724	163	145	12	11	11
17	14	29	11	6.4	8.6	96	502	117	237	11	13	8.3
18	14	31	10	6.6	8.8	84	328	86	258	11	15	7.8
19	13	36	10	6.6	9.4	72	234	67	199	10	13	6.7
20	13	37	9.8	6.8	10	60	179	54	134	9.3	12	6.5
21	13	75	9.4	7.0	11	52	152	46	90	8.6	11	6.5
22	12	97	9.0	7.4	13	45	167	75	63	9.5	13	5.9
23	15	76	8.6	7.6	15	41	136	125	47	9.9	81	6.2
24	13	60	8.4	8.0	16	36	109	95	39	10	86	6.6
25	14	53	8.2	8.2	17	31	92	66	33	15	46	7.8
26	14	48	8.0	8.4	19	28	80	51	28	37	31	7.9
27	15	43	7.8	8.4	20	24	72	43	26	35	24	8.5
28	101	42	7.6	8.6	21	21	66	39	23	28	19	7.8
29	169	38	7.4	8.6	------	20	58	38	20	21	16	8.0
30	102	35	7.2	8.6	------	20	51	38	25	17	14	5.9
31	69	------	7.2	8.6	------	21	------	38	------	15	13	------
TOTAL	864	1,269	415.6	221.8	302.6	4,100	10,158	2,249	3,071	781.3	656	254.5
MEAN	27.9	42.3	13.4	7.15	10.8	132	339	72.5	102	25.2	21.2	8.48
MAX	169	97	30	8.6	21	700	832	219	385	98	86	12
MIN	12	23	7.2	6.4	8.2	20	25	38	20	8.6	10	5.9
CFSM	.20	.31	.10	.05	.08	.96	2.47	.53	.74	.18	.15	.06
IN.	.23	.34	.11	.06	.08	1.11	2.76	.61	.83	.21	.18	.07

CAL YR 1973 TOTAL 52,156.5 MEAN 143 MAX 2,900 MIN 5.7 CFSM 1.04 IN 14.16
WTR YR 1974 TOTAL 24,342.8 MEAN 66.7 MAX 832 MIN 5.9 CFSM .49 IN 6.61

PEAK DISCHARGE (BASE, 800 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 3	2400	6.50	825	4-13	1000	6.61	853

04073050 GRAND RIVER NEAR KINGSTON, WIS.

LOCATION.--LAT 43°41'09", LONG 89°05'09", BETWEEN SECS.16 AND 17, T.14 N., R.12 E., GREEN LAKE COUNTY, ON LEFT BANK JUST UPSTREAM OF TOWN ROAD BRIDGE, 1.3 MI (2.1 KM) UPSTREAM AND EAST OF GRAND LAKE AND 2.3 MI (3.7 KM) EAST OF KINGSTON.

DRAINAGE AREA.--73.7 MI^2 (191 KM^2)

PERIOD OF RECORD.--APRIL 1968 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 795 FT (242 M), FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--6 YEARS, 48.4 FT^3/S (1.371 M^3/S), 8.92 IN/YR (227 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 601 FT^3/S (17.0 M^3/S) MAR. 5, GAGE HEIGHT, 5.95 FT (1.814 M); MINIMUM, 15 FT^3/S (0.42 M^3/S) JAN. 18, 19, GAGE HEIGHT, 1.52 FT (0.463 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,540 FT^3/S (43.6 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 6.59 FT (2.009 M); MINIMUM, 2.0 FT^3/S (0.057 M^3/S) NOV. 28, 1970, GAGE HEIGHT, 1.14 FT (0.348 M), RESULT OF FREEZEUP.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR. OCCASIONAL REGULATION BY MILL ABOUT 2 MI (3.2 KM) UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED MAR. 5, 6; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-12, 14, 16-18, DEC. 30 TO JAN. 16, FEB. 1 TO MAR. 4, MAR. 23-25.)

1.5	14	4.0	218
1.6	19	5.0	390
2.0	43	5.5	550
3.0	118		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	34	28	23	62	25	188	70	49	41	30	24
2	31	33	26	22	58	45	173	72	49	42	29	23
3	41	30	26	20	52	200	176	66	54	42	28	21
4	58	28	34	19	48	450	196	60	59	43	29	21
5	53	26	60	18	46	543	162	45	55	42	30	20
6	42	24	60	18	44	404	146	60	53	41	31	20
7	36	24	44	17	42	268	131	31	56	39	29	19
8	35	24	34	17	40	185	108	47	58	37	27	19
9	34	23	31	17	39	162	95	61	280	36	25	19
10	31	24	28	16	38	132	82	67	273	42	24	19
11	35	25	26	16	36	113	50	70	186	43	25	19
12	40	25	24	16	35	97	147	69	194	40	25	20
13	30	25	23	16	34	81	68	66	177	38	26	25
14	26	25	22	16	34	73	185	146	173	36	25	24
15	24	28	22	16	34	71	207	131	166	34	24	22
16	23	32	21	16	34	83	178	133	112	32	27	20
17	22	31	21	16	33	92	175	126	91	30	30	19
18	22	30	20	16	32	84	147	101	83	29	26	19
19	22	29	20	16	32	80	121	88	159	29	24	19
20	23	29	20	21	32	72	108	77	100	27	24	19
21	22	36	21	46	32	62	101	52	85	25	24	19
22	22	40	20	51	43	55	98	141	74	26	26	18
23	22	35	19	36	35	50	91	135	34	27	25	18
24	22	32	19	37	30	46	83	133	51	27	24	18
25	22	32	25	34	27	48	72	119	57	47	23	17
26	22	31	34	35	25	49	76	90	54	57	23	17
27	22	29	37	50	23	52	73	69	52	48	25	17
28	34	31	34	41	22	52	71	73	49	43	24	19
29	49	31	32	38	------	55	69	79	45	38	23	31
30	42	29	29	50	------	211	64	74	43	35	23	32
31	36	------	26	70	------	202	------	69	------	32	24	------
TOTAL	970	875	886	840	1,042	4,142	3,641	2,620	2,971	1,148	802	617
MEAN	31.3	29.2	28.6	27.1	37.2	134	121	84.5	99.0	37.0	25.9	20.6
MAX	58	40	60	70	62	543	207	146	280	57	31	32
MIN	22	23	19	16	22	25	50	31	34	25	23	17
CFSM	.42	.40	.39	.37	.50	1.82	1.64	1.15	1.34	.50	.35	.28
IN.	.49	.44	.45	.42	.53	2.09	1.84	1.32	1.50	.58	.40	.31

CAL YR 1973 TOTAL 33,708 MEAN 92.4 MAX 1,030 MIN 19 CFSM 1.25 IN 17.01
WTR YR 1974 TOTAL 20,554 MEAN 56.3 MAX 543 MIN 16 CFSM .76 IN 10.37

PEAK DISCHARGE (BASE, 150 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 5	0800	5.95	601	5-22	1300	3.68	182
3-30	1200	4.25	250	6- 9	1600	5.45	462
4-12	0600	3.88	204	6-14	2200	4.35	266
4-14	1800	4.26	251	6-19	0500	3.80	197
5-14	1400	3.44	158				

04073500 FOX RIVER AT BERLIN, WIS.

LOCATION.--LAT 43°57'14", LONG 88°57'08", IN NE 1/4 SEC.16, T.17 N., R.13 E., GREEN LAKE COUNTY, ON LEFT BANK, 0.4 MI (0.6 KM) DOWNSTREAM FROM GOVERNMENT DAM, 1.0 MI (1.6 KM) SOUTH OF HURON STREET BRIDGE IN BERLIN, 2.5 MI (4.0 KM) UPSTREAM FROM BARNES CREEK, AND AT MILE 89.0 (KM 143).

DRAINAGE AREA.--1,430 MI^2 (3,700 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JANUARY 1898 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 744.52 FT (226.930 M) ABOVE MEAN TIDE AT NEW YORK CITY (BY CORPS OF ENGINEERS). PRIOR TO OCT. 27, 1954, NONRECORDING GAGE AT SITE 0.3 MI (0.5 KM) UPSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--76 YEARS, 1,093 FT^3/S (30.95 M^3/S), 10.38 IN/YR (264 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,010 FT^3/S (85.2 M^3/S) APR. 17, GAGE HEIGHT, 12.30 FT (3.749 M); MAXIMUM GAGE HEIGHT, 12.65 FT (3.856 M) MAR. 7, BACKWATER FROM ICE; MINIMUM DISCHARGE, 636 FT^3/S (18.0 M^3/S) SEPT. 22, GAGE HEIGHT, 8.14 FT (2.481 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 6,900 FT^3/S (195 M^3/S) MAR. 17, 18, 1946, GAGE HEIGHT, 15.5 FT (4.724 M); MINIMUM OBSERVED, 248 FT^3/S (7.02 M^3/S) SEPT. 16, 1948, GAGE HEIGHT, 6.1 FT (1.859 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR. USUALLY LESS THAN ABOUT 5 FT^3/S (0.14 M^3/S) WAS DIVERTED INTO THE BASIN FROM THE WISCONSIN RIVER AT PORTAGE CANAL THROUGHOUT THE YEAR.

REVISIONS (WATER YEARS).--WSP 1337: 1910.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JUNE 11-18; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 5 TO MAR. 28.)

8.2	640	11.0	2,160
9.0	1,020	12.0	2,800
10.0	1,560	13.0	3,560

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	755	1,120	1,210	700	920	1,300	2,340	2,230	2,040	1,850	790	822
2	783	1,140	1,190	680	920	1,400	2,490	2,170	2,000	1,820	792	789
3	811	1,210	1,190	680	920	1,500	2,610	2,130	2,010	1,790	794	768
4	844	1,270	1,200	680	940	1,700	2,820	2,100	2,020	1,810	767	748
5	859	1,270	1,100	660	940	2,000	2,930	2,050	1,980	1,750	733	745
6	886	1,250	1,000	660	960	2,300	2,950	1,990	1,940	1,680	776	734
7	890	1,240	980	660	960	2,500	2,940	1,920	1,910	1,610	800	722
8	895	1,230	920	660	980	2,500	2,930	1,870	1,890	1,530	799	716
9	908	1,240	880	660	980	2,600	2,890	1,800	1,990	1,430	798	714
10	937	1,210	840	660	980	2,600	2,830	1,730	2,180	1,360	777	705
11	964	1,230	800	660	980	2,600	2,760	1,730	2,290	1,300	771	707
12	999	1,260	780	660	980	2,500	2,760	1,720	2,360	1,250	785	714
13	1,000	1,260	780	660	980	2,500	2,750	1,690	2,370	1,210	791	699
14	979	1,240	760	680	980	2,500	2,790	1,780	2,380	1,160	787	724
15	968	1,240	760	680	980	2,400	2,930	1,810	2,390	1,090	774	753
16	933	1,240	760	680	980	2,400	2,980	1,870	2,380	1,030	828	702
17	949	1,270	760	700	980	2,300	3,000	1,940	2,360	992	833	689
18	984	1,300	760	700	1,000	2,300	2,970	1,990	2,330	970	818	672
19	983	1,280	740	720	1,000	2,300	2,950	2,020	2,310	930	798	680
20	978	1,260	740	740	1,000	2,300	2,910	2,030	2,270	891	787	667
21	969	1,270	740	740	1,000	2,200	2,880	2,040	2,230	838	806	676
22	957	1,290	740	760	1,000	2,200	2,850	2,140	2,220	875	1,040	648
23	946	1,280	740	780	1,100	2,100	2,780	2,210	2,140	842	973	648
24	937	1,260	720	780	1,100	2,100	2,710	2,210	2,120	836	927	684
25	971	1,250	720	800	1,100	2,100	2,640	2,200	2,070	906	892	707
26	970	1,250	720	820	1,100	2,000	2,570	2,170	2,030	981	872	684
27	958	1,250	720	840	1,200	2,000	2,500	2,100	1,990	955	839	689
28	1,010	1,250	720	860	1,300	2,000	2,450	2,000	1,950	921	803	694
29	1,020	1,230	700	880	------	2,060	2,380	2,130	1,920	881	797	680
30	1,050	1,240	700	880	------	2,120	2,310	2,130	1,900	833	765	707
31	1,100	------	700	900	------	2,200	------	2,090	------	802	834	------
TOTAL	29,193	37,330	26,070	22,620	28,260	67,580	82,600	61,990	63,970	37,123	25,346	21,287
MEAN	942	1,244	841	730	1,009	2,180	2,753	2,000	2,132	1,198	818	710
MAX	1,100	1,300	1,210	900	1,300	2,600	3,000	2,230	2,390	1,850	1,040	822
MIN	755	1,120	700	660	920	1,300	2,310	1,690	1,890	802	733	648
CFSM	.66	.87	.59	.51	.71	1.52	1.93	1.40	1.49	.84	.57	.50
IN.	.76	.97	.68	.59	.74	1.76	2.15	1.61	1.66	.97	.66	.55

CAL YR 1973 TOTAL 680,816 MEAN 1,865 MAX 5,970 MIN 652 CFSM 1.30 IN 17.71
WTR YR 1974 TOTAL 503,369 MEAN 1,379 MAX 3,000 MIN 648 CFSM .96 IN 13.09

04074950 WOLF RIVER AT LANGLADE, WIS.

LOCATION.--LAT 45°11'24", LONG 88°44'00", BETWEEN SECS.3 AND 10, T.31 N., R.14 E., LANGLADE COUNTY, NEAR LEFT BANK ON UPSTREAM SIDE OF BRIDGE HANDRAIL, ON STATE HIGHWAY 64 AT LANGLADE, 1.5 MI (2.4 KM) EAST OF WHITE LAKE, 3.0 MI (4.8 KM) UPSTREAM FROM WHITE LAKE CREEK, AND AT ABOUT MILE 170 (274 KM) ABOVE MOUTH.

DRAINAGE AREA.--460 MI^2 (1,191 KM^2).

PERIOD OF RECORD.--MARCH 1966 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE. ALTITUDE OF GAGE IS ABOUT 1,240 FT (378 M), FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--8 YEARS, 484 FT^3/S (13.71 M^3/S), 14.29 IN/YR (363 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE OBSERVED, 1,090 FT^3/S (30.9 M^3/S) APR.14, GAGE HEIGHT, 8.67 FT (2.643 M); MAXIMUM GAGE HEIGHT OBSERVED, 8.96 FT (2.731 M) MAR. 22, BACKWATER FROM ICE; MINIMUM DISCHARGE OBSERVED, 225 FT^3/S (6.37 M^3/S) JULY 12, GAGE HEIGHT, 7.42 FT (2.262 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE OBSERVED, 2,200 FT^3/S (62.3 M^3/S) MAR. 15, 1973, GAGE HEIGHT, 9.48 FT (2.890 M); MAXIMUM GAGE HEIGHT OBSERVED, 9.98 FT (3.042 M) DEC. 5, 1968, BACKWATER FROM ICE; MINIMUM DISCHARGE OBSERVED, 156 FT^3/S (4.42 M^3/S) AUG. 27-29, 1970.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-11, DEC. 7 TO APR. 3.)

7.4	216	8.5	930
8.0	540	9.0	1,440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	458	464	330	280	420	450	508	482	274	247	329
2	366	452	440	330	280	430	460	489	470	279	265	303
3	366	434	410	340	280	440	490	489	416	298	405	289
4	366	416	394	340	280	450	508	482	382	294	508	279
5	377	355	355	340	280	460	574	495	360	284	508	284
6	371	308	339	340	280	500	574	476	360	274	508	284
7	366	420	310	340	280	540	601	452	405	265	540	284
8	377	440	310	340	280	580	588	434	476	251	560	303
9	399	420	300	330	290	560	567	416	554	247	534	350
10	416	400	300	330	290	480	574	394	630	242	508	434
11	458	380	300	330	290	460	560	452	703	234	495	688
12	458	388	290	330	290	450	703	521	680	225	482	680
13	434	394	290	320	290	440	1,070	502	666	238	476	975
14	410	410	290	320	290	430	1,090	482	615	265	410	644
15	394	394	280	320	290	430	1,060	482	560	265	366	644
16	382	388	280	310	290	430	1,030	476	560	265	366	637
17	366	440	280	310	290	430	975	514	554	256	360	608
18	360	388	280	310	290	420	957	495	540	279	360	588
19	355	388	280	300	290	420	912	446	508	270	446	567
20	350	382	280	300	290	420	868	422	464	256	422	540
21	350	470	280	300	300	420	825	540	422	251	405	514
22	350	594	280	300	310	420	800	521	394	256	750	476
23	344	527	280	300	310	410	750	502	377	242	574	464
24	339	547	280	300	320	410	719	464	339	238	502	416
25	339	567	280	300	330	410	719	440	318	289	452	371
26	339	560	280	300	350	410	688	416	313	298	388	344
27	334	560	280	290	380	410	630	416	303	303	360	329
28	514	554	290	290	400	420	560	410	294	284	339	329
29	470	534	300	290	------	420	534	416	284	274	334	350
30	428	452	310	290	------	430	521	382	279	260	329	360
31	422	------	320	290	------	440	------	416	------	256	324	------
TOTAL	11,977	13,420	9,652	9,760	8,420	13,790	21,357	14,350	13,708	8,212	13,523	13,663
MEAN	386	447	311	315	301	445	712	463	457	265	436	455
MAX	514	594	464	340	400	580	1,090	540	703	303	750	975
MIN	334	308	280	290	280	410	450	382	279	225	247	279
CFSM	.84	.97	.68	.68	.65	.97	1.55	1.01	.99	.58	.95	.99
IN.	.97	1.09	.78	.79	.68	1.12	1.73	1.16	1.11	.66	1.09	1.10

CAL YR 1973 TOTAL 226,205 MEAN 620 MAX 2,200 MIN 274 CFSM 1.35 IN 18.29
WTR YR 1974 TOTAL 151,832 MEAN 416 MAX 1,090 MIN 225 CFSM .90 IN 12.28

04077000 WOLF RIVER AT KESHENA FALLS, WIS.

LOCATION.--LAT 44°53'28", LONG 88°39'18", IN E 1/2 SEC.22, T.28 N., R.15 E., MENOMINEE COUNTY, ON RIGHT BANK 500 FT (152 M) DOWNSTREAM FROM KESHENA FALLS, 1.7 MI (2.7 KM) UPSTREAM FROM KESHENA, 3.1 MI (5.0 KM) DOWNSTREAM FROM WEST BRANCH WOLF RIVER, AND AT MILE 136.4 (219.5 KM).

DRAINAGE AREA.--812 MI^2 (2,103 KM^2).

PERIOD OF RECORD.--MAY 1907 TO MARCH 1909, OCTOBER 1910 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1307. PUBLISHED AS "AT KESHENA" PRIOR TO APRIL 1928.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 820.0 FT (249.936 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN POWER AND LIGHT CO.). PRIOR TO MAR. 23, 1928, NONRECORDING GAGE AT BRIDGE IN KESHENA 1.7 MI (2.7 KM) DOWNSTREAM AT DATUM 4.03 FT (1.23 M) LOWER.

AVERAGE DISCHARGE.--65 YEARS (1907-8, 1910-74), 761 FT^3/S (21.55 M^3/S), 12.73 IN/YR (323 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,360 FT^3/S (66.8 M^3/S) APR. 13, GAGE HEIGHT, 7.54 FT (2.298 M); MAXIMUM GAGE HEIGHT, 9.46 FT (2.883 M) NOV. 10, BACKWATER FROM ICE; MINIMUM DISCHARGE 335 FT^3/S (9.49 M^3/S) DEC. 7, RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE 5,200 FT^3/S (147 M^3/S) MAR. 15, 1973; MAXIMUM GAGE HEIGHT, 13.86 FT (4.225 M) MAR. 15, 1973, BACKWATER FROM ICE; MINIMUM DISCHARGE, 91 FT^3/S (2.58 M^3/S) DEC. 22, 1939, GAGE HEIGHT, 4.67 FT (1.423 M), RESULT OF ICE STORAGE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 664: DRAINAGE AREA (SITE AT KESHENA). WSP 1337: 1914-15(M), 1918-19(M), 1921, 1923(M), 1926(M), 1928(M), 1933.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 9-14, DEC.3-6, DEC. 8 TO APR. 10.)

5.3	377	7.0	1,740
5.5	488	8.0	2,800
6.0	842	9.0	4,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	705	861	684	520	430	660	560	852	818	538	443	532
2	684	867	649	520	430	700	580	818	802	513	437	519
3	665	846	580	520	430	720	600	835	745	519	589	489
4	665	802	560	500	430	740	640	818	660	550	852	471
5	666	757	540	500	430	780	660	818	600	538	877	460
6	667	656	480	490	430	820	680	818	620	513	810	454
7	659	583	448	490	430	880	740	827	680	483	778	454
8	663	703	460	480	430	840	760	778	780	471	778	466
9	682	720	540	470	430	760	800	730	900	454	745	477
10	797	760	520	470	430	720	900	707	1,000	443	693	489
11	829	800	500	460	440	700	1,050	877	1,200	437	678	852
12	830	800	480	460	440	680	1,430	1,070	1,100	426	707	991
13	806	740	480	450	440	680	2,120	1,030	1,000	426	714	1,030
14	764	700	480	450	440	660	2,220	973	920	437	707	980
15	728	682	470	450	440	660	2,000	929	880	460	643	918
16	700	667	470	450	440	640	1,800	885	860	466	827	881
17	678	639	460	450	440	640	1,670	868	860	443	973	860
18	667	649	460	440	440	640	1,550	860	840	454	877	821
19	659	665	460	440	450	620	1,460	843	800	466	769	795
20	651	662	460	440	450	600	1,380	769	761	466	693	770
21	645	784	460	440	450	600	1,330	722	693	443	643	729
22	642	1,000	460	430	460	580	1,380	852	650	454	810	704
23	641	1,000	460	430	480	580	1,350	903	623	448	1,150	687
24	637	905	460	430	500	580	1,260	885	589	432	955	644
25	635	926	460	430	520	580	1,190	810	557	643	769	598
26	633	918	460	430	540	580	1,100	778	489	693	671	559
27	666	894	460	430	580	560	1,050	745	532	616	616	503
28	972	878	470	430	620	560	991	730	513	538	569	487
29	1,050	842	480	430	------	580	920	745	513	507	544	511
30	939	785	490	430	------	560	885	722	576	471	532	538
31	840	------	500	430	------	560	------	730	------	448	544	------
TOTAL	22,465	23,491	15,341	14,190	12,870	20,460	35,056	25,727	22,561	15,196	22,393	19,669
MEAN	725	783	495	458	460	660	1,169	830	752	490	722	656
MAX	1,050	1,000	684	520	620	880	2,220	1,070	1,200	693	1,150	1,030
MIN	633	583	448	430	430	560	560	707	489	426	437	454
CFSM	.89	.96	.61	.56	.57	.81	1.44	1.02	.93	.60	.89	.81
IN.	1.03	1.08	.70	.65	.59	.94	1.61	1.18	1.03	.70	1.03	.90

CAL YR 1973 TOTAL 388,158 MEAN 1,063 MAX 5,200 MIN 448 CFSM 1.31 IN 17.78
WTR YR 1974 TOTAL 249,419 MEAN 683 MAX 2,220 MIN 426 CFSM .84 IN 11.43

PEAK DISCHARGE (BASE, 1,500 FT^3/S).--APR. 13 (2200) 2,360 FT^3/S (7.54 FT).

04078500 EMBARRASS RIVER NEAR EMBARRASS, WIS.

LOCATION.--LAT 44°43'29", LONG 88°44'10", IN SW 1/4 SEC.18, T.26 N., R.15 E., SHAWANO COUNTY, ON LEFT BANK 10 FT (3 M) DOWNSTREAM FROM BRIDGE ON COUNTY ROAD, 1.3 MI (2.1 KM) DOWNSTREAM FROM MILL CREEK, AND 4.0 MI (6.4 KM) NORTHWEST OF EMBARRASS.

DRAINAGE AREA.--395 MI^2 (1,023 KM^2).

PERIOD OF RECORD.--JUNE 1919 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 803.95 FT (245.044 M) ABOVE MEAN SEA LEVEL. PRIOR TO AUG. 23, 1938, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--55 YEARS, 290 FT^3/S (8.213 M^3/S), 9.97 IN/YR (253 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,710 FT^3/S (76.7 M^3/S) APR. 14, GAGE HEIGHT, 7.56 FT (2.304 M); MINIMUM DISCHARGE, 62 FT^3/S (1.76 M^3/S) JULY 20, GAGE HEIGHT, 2.55 FT (0.777 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 7,080 FT^3/S (200 M^3/S) APR. 12, 1965, GAGE HEIGHT, 12.13 FT (3.697 M), AFFECTED BY FAILURE OF DAM NEAR PELLA, 9.2 MI (14.8 KM) ABOVE STATION; MINIMUM OBSERVED, 23 FT^3/S (0.65 M^3/S) AUG. 3, 6, 7, 1931.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. SLIGHT DIURNAL FLUCTUATION CAUSED BY POWERPLANTS ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 1337: 1920-26(M), 1928, 1929-30(M), 1933-34, 1936-37, 1938(M), 1940.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 3 TO APR. 2.)

2.6	60	4.0	589
2.8	104	5.0	1,140
3.0	151	7.0	2,340
3.4	290	9.0	3,760

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	313	193	120	110	180	190	289	256	160	108	99
2	164	308	188	120	110	180	310	277	210	165	112	103
3	158	282	180	120	110	180	500	259	204	160	108	102
4	158	249	170	120	110	180	816	267	203	166	122	105
5	155	230	170	120	110	190	834	283	194	147	155	108
6	160	192	160	110	110	210	755	323	186	145	145	101
7	159	167	160	110	110	280	857	339	202	137	128	93
8	159	175	160	110	110	400	1,030	305	237	129	118	93
9	161	168	160	110	110	300	995	271	309	114	111	90
10	169	167	160	110	110	270	840	251	608	116	108	92
11	221	173	160	110	110	240	811	319	585	116	111	97
12	213	176	150	110	110	220	1,250	618	461	115	114	106
13	213	180	150	110	110	210	2,200	691	267	115	136	129
14	200	195	150	110	110	200	2,590	663	232	116	138	144
15	185	216	150	110	110	190	2,070	617	284	114	126	143
16	171	225	140	110	110	180	1,520	527	490	110	125	131
17	163	214	140	110	120	170	1,120	439	484	105	144	117
18	159	206	140	110	120	160	868	357	378	103	179	109
19	158	215	140	110	130	160	745	298	312	100	168	105
20	156	232	140	110	130	150	663	280	270	66	139	103
21	156	293	130	110	140	150	599	261	233	89	120	99
22	158	425	130	110	140	140	557	299	207	106	115	98
23	155	447	130	110	150	140	557	372	188	106	114	96
24	157	385	130	110	160	140	469	343	182	104	127	96
25	158	333	130	110	170	140	445	277	167	131	139	99
26	154	305	130	110	170	140	398	240	147	173	125	99
27	166	275	130	110	170	140	366	222	139	180	113	100
28	246	258	130	110	180	140	357	233	142	175	105	101
29	345	240	120	110	------	140	341	271	140	149	99	106
30	355	221	120	110	------	140	320	299	148	126	95	109
31	311	------	120	110	------	150	------	282	------	113	100	------
TOTAL	5,815	7,465	4,561	3,460	3,540	5,810	25,373	10,772	8,065	3,951	3,847	3,173
MEAN	188	249	147	112	126	187	846	347	269	127	124	106
MAX	355	447	193	120	180	400	2,590	691	608	180	179	144
MIN	154	167	120	110	110	140	190	222	139	66	95	90
CFSM	.48	.63	.37	.28	.32	.47	2.14	.88	.68	.32	.31	.27
IN.	.55	.70	.43	.33	.33	.55	2.39	1.01	.76	.37	.36	.30

CAL YR 1973 TOTAL 177,389 MEAN 486 MAX 3,600 MIN 120 CFSM 1.23 IN 16.71
WTR YR 1974 TOTAL 85,832 MEAN 235 MAX 2,590 MIN 66 CFSM .59 IN 8.08

04079000 WOLF RIVER AT NEW LONDON, WIS.

LOCATION.--LAT 44°23'32", LONG 88°44'25", IN NE 1/4 SE 1/4 SEC.12, T.22 N., R.14 E., WAUPACA COUNTY, ON RIGHT BANK 100 FT (30 M) DOWNSTREAM FROM PEARL STREET BRIDGE IN NEW LONDON, 0.2 MI (0.3 KM) DOWNSTREAM FROM EMBARRASS RIVER, AND AT MILE 56.3 (90.6 KM).

DRAINAGE AREA.--2,240 MI^2 (5,800 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--MARCH 1896 TO CURRENT YEAR. PRIOR TO OCTOBER 1913 MONTHLY DISCHARGES ONLY, PUBLISHED IN WSP 1307.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 747.94 FT (227.972 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). PRIOR TO OCTOBER 4, 1951, NONRECORDING GAGE.

AVERAGE DISCHARGE.--78 YEARS, 1,729 FT^3/S (48.97 M^3/S), 10.48 IN/YR (266 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 7,110 FT^3/S (201 M^3/S) APR. 18, GAGE HEIGHT, 8.75 FT (2.667 M); MINIMUM, 805 FT^3/S (22.8 M^3/S) SEPT. 10, GAGE HEIGHT, 1.30 FT (0.396 M).
PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE, 15,500 FT^3/S (439 M^3/S) APR. 13, 1922, GAGE HEIGHT, 11.4 FT (3.47 M); MINIMUM DAILY, 150 FT^3/S (4.25 M^3/S) MAR. 1, 1900.
MAXIMUM STAGE KNOWN, 11.6 FT (3.54 M) APR. 16, 1888, FROM INFORMATION BY CORPS OF ENGINEERS.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1114: 1943(M). WSP 1337: 1931.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND)
(SHIFTING-CONTROL METHOD USED OCT. 1 TO DEC. 4, APR. 15-22; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 5 TO APR. 11.)

1.3	805	6.0	2,950
1.9	1,020	8.0	4,890
4.0	1,910	10.0	9,890

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	1,840	1,760	980	920	1,100	1,400	3,060	2,360	1,320	1,140	1,010
2	1,350	1,840	1,710	980	900	1,100	1,500	2,890	2,300	1,310	1,050	980
3	1,310	1,860	1,640	960	900	1,200	1,800	2,750	2,160	1,320	991	966
4	1,250	1,830	1,560	960	880	1,300	2,000	2,590	2,090	1,330	953	960
5	1,180	1,780	1,500	960	880	1,700	2,300	2,470	2,010	1,350	933	952
6	1,140	1,700	1,400	960	880	2,300	2,500	2,400	1,920	1,350	1,050	925
7	1,110	1,560	1,400	960	900	2,600	2,700	2,350	1,870	1,320	1,210	885
8	1,100	1,450	1,300	940	900	2,700	2,900	2,320	1,860	1,270	1,300	842
9	1,150	1,280	1,300	940	900	2,800	3,000	2,230	2,000	1,220	1,280	811
10	1,230	1,150	1,300	940	920	2,800	3,200	2,160	2,690	1,160	1,230	806
11	1,240	1,190	1,300	940	920	2,900	3,500	2,140	3,040	1,110	1,240	809
12	1,280	1,260	1,200	940	940	2,800	3,760	2,210	3,270	1,100	1,230	816
13	1,340	1,270	1,200	920	940	2,800	3,930	2,300	3,390	1,070	1,220	866
14	1,350	1,260	1,200	920	960	2,700	4,200	2,480	3,440	1,030	1,200	1,020
15	1,340	1,320	1,200	920	960	2,600	4,770	2,660	3,530	992	1,180	1,180
16	1,300	1,430	1,100	920	960	2,600	5,840	2,810	3,640	959	1,170	1,240
17	1,250	1,440	1,100	920	960	2,500	6,670	2,910	3,740	933	1,160	1,240
18	1,220	1,460	1,100	920	980	2,300	7,070	2,930	3,790	915	1,160	1,220
19	1,220	1,460	1,100	900	980	2,100	7,050	2,890	3,780	891	1,220	1,190
20	1,210	1,470	1,100	900	980	1,900	6,740	2,810	3,690	876	1,300	1,180
21	1,210	1,580	1,100	900	980	1,700	6,340	2,650	3,550	864	1,340	1,160
22	1,210	1,680	1,100	900	1,000	1,600	5,510	2,610	3,370	844	1,430	1,130
23	1,220	1,800	1,100	900	1,000	1,400	4,830	2,570	3,150	895	1,340	1,090
24	1,210	1,890	1,100	900	1,100	1,300	4,470	2,520	2,900	920	1,240	1,080
25	1,210	1,920	1,100	900	1,100	1,200	4,120	2,450	2,660	1,040	1,280	1,040
26	1,180	1,920	1,100	920	1,100	1,200	3,890	2,340	2,420	1,250	1,350	980
27	1,160	1,910	1,000	920	1,100	1,200	3,670	2,250	2,150	1,400	1,380	943
28	1,230	1,910	1,000	940	1,100	1,200	3,500	2,190	1,850	1,540	1,300	914
29	1,390	1,870	1,000	940	------	1,300	3,350	2,240	1,540	1,500	1,220	889
30	1,610	1,820	1,000	940	------	1,300	3,200	2,350	1,380	1,410	1,130	856
31	1,780	------	1,000	920	------	1,300	------	2,400	------	1,260	1,080	------
TOTAL	39,350	48,150	38,070	28,860	27,040	59,500	119,710	77,930	81,540	35,749	37,307	29,980
MEAN	1,269	1,605	1,228	931	966	1,919	3,990	2,514	2,718	1,153	1,203	999
MAX	1,780	1,920	1,760	980	1,100	2,900	7,070	3,060	3,790	1,540	1,430	1,240
MIN	1,100	1,150	1,000	900	880	1,100	1,400	2,140	1,380	844	933	806
CFSM	.57	.72	.55	.42	.43	.86	1.78	1.12	1.21	.51	.54	.45
IN.	.65	.80	.63	.48	.45	.99	1.99	1.29	1.35	.59	.62	.50

CAL YR 1973 TOTAL 1,070,710 MEAN 2,933 MAX 14,100 MIN 1,000 CFSM 1.31 IN 17.78
WTR YR 1974 TOTAL 623,186 MEAN 1,707 MAX 7,070 MIN 806 CFSM .76 IN 10.35

04079602 LITTLE WOLF RIVER NEAR GALLOWAY, WIS.

LOCATION.--LAT 44°41'27", LONG 89°15'51", IN SW 1/4 NW 1/4 SEC.35, T.26 N., R.10 E., MARATHON COUNTY, ON RIGHT BANK 50 FT (15 M) DOWNSTREAM FROM STATE HIGHWAY 49 BRIDGE, AND 0.7 MI (1.1 KM) UPSTREAM FROM HOLT CREEK, AND 1.5 MI (2.4 KM) SOUTH OF GALLOWAY.

DRAINAGE AREA.--22.5 MI^2 (58.3 KM^2).

PERIOD OF RECORD.--OCTOBER 1973 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,140 FT (347 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 138 FT^3/S (3.91 M^3/S) APR. 13, GAGE HEIGHT, 5.59 FT (1.704 M); MINIMUM DAILY, 4.5 FT^3/S (0.127 M^3/S) AUG. 1, 2.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. CONSIDERABLE AFFECT DURING LOW FLOW BY IRRIGATION.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 3 TO MAR. 4, MAR. 14-26, MAR. 30 TO APR. 8, 9.)

3.0	3.6	4.5	61
3.2	8.5	5.0	93
3.5	17	5.5	131
4.0	35	6.0	175

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	17	12	7.8	9.1	9.0	10	20	20	9.3	4.5	7.2
2	9.8	15	12	7.7	9.0	9.1	12	18	17	9.0	4.5	6.8
3	9.6	14	11	7.6	8.6	9.2	19	20	16	8.5	4.6	6.8
4	9.4	13	10	7.6	8.2	9.6	41	19	16	9.3	5.6	6.5
5	9.4	12	9.6	7.5	7.8	11	29	24	14	9.0	9.2	6.2
6	9.4	11	9.4	7.4	7.4	17	31	26	14	7.5	7.8	6.2
7	9.4	11	9.3	7.4	7.3	27	50	22	19	7.2	6.0	6.2
8	9.4	11	9.2	7.3	7.3	18	45	20	22	7.5	5.3	6.2
9	9.8	11	9.1	7.2	7.3	15	41	18	25	6.8	5.5	6.2
10	11	11	9.0	7.1	7.3	15	43	17	31	7.5	6.8	6.2
11	15	10	9.0	7.0	7.3	16	48	32	26	6.5	12	5.8
12	14	10	8.9	6.9	7.3	16	74	40	20	7.5	11	7.8
13	14	11	8.9	6.9	7.4	16	125	32	16	9.3	8.8	10
14	12	12	8.8	7.0	7.4	16	122	32	16	8.2	7.8	8.2
15	12	13	8.8	7.0	7.4	15	91	30	27	6.8	7.2	7.0
16	11	13	8.8	7.0	7.4	14	72	26	26	6.0	14	6.2
17	11	12	8.8	7.0	7.5	13	60	24	22	6.0	14	6.0
18	11	12	8.7	7.0	7.6	12	51	21	19	11	9.8	6.0
19	11	13	8.6	7.1	7.7	11	44	19	18	7.0	8.5	6.0
20	11	13	8.5	7.1	7.8	11	38	18	15	8.8	8.2	6.0
21	10	19	8.5	7.2	7.9	11	36	17	15	6.0	7.8	5.8
22	10	22	8.4	7.2	8.0	10	35	23	13	6.8	9.5	6.0
23	10	18	8.4	7.3	8.2	10	33	20	12	9.5	8.2	6.0
24	10	17	8.4	7.4	8.4	8.8	30	17	11	6.2	7.8	6.5
25	10	17	8.4	7.5	8.6	7.6	27	16	9.8	13	7.2	6.8
26	10	16	8.3	7.8	8.7	6.4	26	15	9.0	13	6.8	6.8
27	10	15	8.2	8.0	8.8	6.2	25	16	8.2	9.0	6.5	6.8
28	16	14	8.1	8.2	8.9	6.2	24	19	8.8	7.0	6.2	7.0
29	19	13	8.0	8.5	------	6.2	23	31	8.0	6.0	6.5	8.0
30	16	13	7.9	8.8	------	6.2	21	27	11	5.2	6.0	7.2
31	16	------	7.8	9.0	------	7.0	------	24	------	4.8	8.5	------
TOTAL	357.2	409	278.8	231.5	221.6	365.5	1,326	703	504.8	245.2	242.1	200.4
MEAN	11.5	13.6	8.99	7.47	7.91	11.8	44.2	22.7	16.8	7.91	7.81	6.68
MAX	19	22	12	9.0	9.1	27	125	40	31	13	14	10
MIN	9.4	10	7.8	6.9	7.3	6.2	10	15	8.0	4.8	4.5	5.8

WTR YR 1974 TOTAL 5,085.1 MEAN 13.9 MAX 125 MIN 4.5

04080950 EMMONS CREEK NEAR RURAL, WIS.

LOCATION.--LAT 44°18'55", LONG 89°11'34", IN NW 1/4 NE 1/4 SEC.8, T.21 N., R.11 E., WAUPACA COUNTY, 0.8 MI (1.3 KM) UPSTREAM FROM LONG LAKE AND 1.8 MI (2.9 KM) WEST OF RURAL.

DRAINAGE AREA.--27 MI^2 (70 KM^2), APPROXIMATELY; THE GROUND-WATER DRAINAGE AREA IS ABOUT ONE-THIRD LARGER THAN THE SURFACE-WATER DRAINAGE AREA.

PERIOD OF RECORD.--MAY 1968 TO SEPTEMBER 1974 (DISCONTINUED).

GAGE.--NONRECORDING GAGE AND CREST-STAGE GAGE. ALTITUDE OF GAGE IS 890 FT (270 M), BY BAROMETER.

AVERAGE DISCHARGE.--6 YEARS, 26.8 FT^3/S (0.759 M^3/S), 13.48 IN/YR (342 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 48 FT^3/S (1.36 M^3/S) JUNE 9, GAGE HEIGHT, 3.0 FT (0.91 M) BASED ON GAGE READINGS FROM GRAPH; MINIMUM OBSERVED, 22 FT^3/S (0.62 M^3/S) SEPT. 2, 19.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 350 FT^3/S (9.91 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 5.46 FT (1.664 M) FROM RATING CURVE EXTENDED ABOVE 140 FT^3/S (3.96 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; MINIMUM, 21 FT^3/S (0.59 M^3/S) AUG. 30, 1969, FEB. 14, AUG. 3, 8, 10, 15-17, 20-28, 1970, JULY 25, 1972.

REMARKS.--RECORDS GOOD.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 17, JAN. 2-5, 7-9, 12-14, 27, FEB. 1, 5, 7, 9, 15, 22, 24, AND MAR. 24.)

2.1	20	2.5	32
2.2	23	3.0	48

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	31	30	28	27	25	29	27	27	26	24	23
2	28	31	30	28	26	25	28	27	28	26	24	22
3	28	30	30	28	26	32	31	28	28	26	24	23
4	35	30	30	27	26	33	34	27	29	28	24	23
5	29	30	31	27	26	30	30	28	27	26	24	23
6	30	30	30	27	26	31	29	28	28	26	24	23
7	30	30	29	27	26	32	32	27	29	25	24	23
8	30	30	29	27	26	30	30	27	29	24	24	23
9	30	30	29	26	26	30	30	28	42	25	24	23
10	30	30	29	26	26	30	30	27	43	25	24	23
11	32	30	28	26	26	29	30	32	31	25	25	23
12	30	30	28	26	26	29	40	29	29	25	24	24
13	30	30	28	26	26	28	32	29	28	25	24	25
14	29	30	28	26	26	28	33	39	28	25	24	24
15	30	36	28	27	26	28	32	30	28	24	24	23
16	30	33	28	27	26	30	31	30	29	24	24	23
17	30	31	28	27	25	28	31	29	28	24	24	23
18	30	31	28	27	26	28	30	30	28	24	24	23
19	30	32	29	27	26	28	30	29	28	24	24	22
20	29	31	28	27	26	27	29	28	28	24	24	23
21	29	40	27	27	26	27	29	28	28	24	24	24
22	29	33	28	27	26	27	29	33	27	24	25	24
23	31	32	27	27	26	27	28	29	27	24	24	25
24	30	31	29	27	26	27	27	28	27	24	24	25
25	30	31	30	27	26	26	25	28	27	42	24	25
26	29	31	29	27	26	27	26	28	26	28	24	25
27	30	30	29	27	26	26	27	28	26	26	24	24
28	34	30	28	27	26	27	28	28	26	25	24	25
29	33	30	28	27	------	26	28	29	26	25	24	26
30	32	30	28	27	------	30	28	28	27	25	24	24
31	34	------	28	27	------	28	------	28	------	24	23	------
TOTAL	939	934	889	834	728	879	896	894	862	792	745	709
MEAN	30.3	31.1	28.7	26.9	26.0	28.4	29.9	28.8	28.7	25.5	24.0	23.6
MAX	35	40	31	28	27	33	40	39	43	42	25	26
MIN	28	30	27	26	25	25	25	27	26	24	23	22
CFSM	1.12	1.15	1.06	1.00	.96	1.05	1.11	1.07	1.06	.94	.89	.87
IN.	1.29	1.29	1.22	1.15	1.00	1.21	1.23	1.23	1.19	1.09	1.03	.98

CAL YR 1973 TOTAL 11,340 MEAN 31.1 MAX 203 MIN 24 CFSM 1.15 IN 15.62
WTR YR 1974 TOTAL 10,101 MEAN 27.7 MAX 43 MIN 22 CFSM 1.03 IN 13.92

04080976 STORM SEWER TO MIRROR LAKE AT WAUPACA, WIS.

LOCATION.--LAT 44°21'08", LONG 89°04'55", IN SW 1/4 NW 1/4 SEC.29, T.22 N., R.12 E., WAUPACA COUNTY, 200 FT (61 M) UPSTREAM FROM MIRROR LAKE, 30 FT (9 M) SOUTH OF THE JUNCTION OF SOUTH DIVISION STREET AND EAST LAKE STREET IN THE CITY OF WAUPACA.

DRAINAGE AREA.--0.04 MI^2 (0.10 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JULY 1971 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 850 FT (259 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--MAXIMUM AND MINIMUM DISCHARGES FOR THE WATER YEARS 1971-74 ARE CONTAINED IN THE FOLLOWING TABLE:

WATER YEAR	MAXIMUM DATE	MAXIMUM DISCHARGE (CFS)	MAXIMUM GAGE HEIGHT (FEET)	MINIMUM DATE	MINIMUM DISCHARGE (CFS)	MINIMUM GAGE HEIGHT (FEET)
1971+	AUG. 13, 1971	4.1	4.19	MANY DAYS	0	--
1972	AUG. 18, 1972	6.0	4.54	MANY DAYS	0	--
1973	APR. 20, 1973	7.3	4.88	MANY DAYS	0	--
1974	JULY 25, 1974	5.2	4.39	MANY DAYS	0	--

+ PERIOD JULY TO SEPTEMBER

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR PERIODS OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	0	0
2										0	0	0
3										0	0	0
4										.02	0	0
5										.10	0	0
6										0	0	0
7										0	0	0
8										.02	0	0
9										0	0	0
10										0	.02	0
11										0	0	0
12										.02	0	0
13										.02	.28	0
14										0	.02	0
15										0	0	0
16										.10	0	0
17										0	0	0
18										.14	0	0
19										.01	.03	.12
20										0	0	.01
21										0	0	0
22										0	0	0
23										.13	0	.05
24										0	.03	0
25										0	0	.07
26										0	0	.01
27										.15	0	.41
28										.65	0	.01
29					------					0	0	.05
30					------					.07	0	.11
31		------			------		------		------	0	0	------
TOTAL										1.43	.38	.84
MEAN										.046	.012	.028
MAX										.65	.28	.41
MIN										0	0	0
CFSM										1.15	.30	.70
IN.										1.33	.35	.78

NOTE.--NO GAGE-HEIGHT RECORD APR. 24, 1972, TO JUNE 12, 1972, AND AUG. 24, 1973, TO SEPT. 27, 1973.

04080976 STORM SEWER TO MIRROR LAKE AT WAUPACA, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.30	0	0	0	0	.02	.10	0	0	.02	.15
2	0	.05	0	0	0	0	.02	.01	0	0	.01	0
3	.01	.01	0	0	0	0	.01	0	0	.02	0	0
4	0	.01	0	0	0	0	.01	0	0	0	0	0
5	0	0	0	0	0	0	.01	0	.02	.01	0	.17
6	0	0	0	0	0	0	.01	0	0	.01	.04	0
7	0	0	0	0	0	0	.01	0	0	.01	.01	0
8	.01	0	0	0	0	0	.02	0	0	.01	.05	0
9	0	0	0	0	0	0	.02	0	0	.03	0	0
10	0	0	.11	0	0	0	.03	0	0	0	0	0
11	0	0	0	0	0	.02	.01	0	0	0	.04	.03
12	.01	0	0	0	0	.03	.07	0	0	.05	0	.15
13	.01	0	0	0	0	.02	.01	.05	.16	0	0	.04
14	0	0	0	0	0	.10	.05	.05	.13	.13	0	0
15	0	0	.27	0	0	.02	.02	.10	0	0	0	0
16	0	.02	.01	0	0	.10	.02	0	0	0	0	0
17	0	0	0	0	0	.20	0	0	0	0	0	.13
18	0	.05	0	0	0	.07	0	0	0	0	.28	.12
19	.07	.01	0	0	0	.06	0	0	0	.02	.01	.07
20	.01	.01	0	0	0	.22	0	0	0	.08	.01	.12
21	.01	0	0	0	0	.12	.18	0	0	0	0	.01
22	.01	0	0	0	0	.01	.08	0	0	0	.02	0
23	0	0	0	0	0	.02	0	0	0	.01	.15	0
24	.01	0	.01	0	0	.03	0	0	0	0	.27	0
25	.01	0	0	0	0	.04	0	0	0	0	.03	.51
26	.01	0	0	0	0	.01	0	0	0	0	.62	.19
27	0	0	0	0	0	.03	0	0	0	0	.01	0
28	0	0	0	0	0	.02	0	0	0	0	0	.49
29	0	0	0	0	0	0	0	0	0	.04	0	0
30	.04	0	0	0	------	.04	0	.16	0	0	0	0
31	.01	------	0	0	------	.04	------	.10	------	.02	0	------
TOTAL	.22	.46	.40	0	0	1.20	.60	.57	.31	.44	1.57	2.18
MEAN	.007	.015	.013	0	0	.039	.020	.018	.010	.014	.051	.073
MAX	.07	.30	.27	0	0	.22	.18	.16	.16	.13	.62	.51
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	.18	.38	.33	0	0	.98	.50	.45	.25	.35	1.28	1.83
IN.	.20	.43	.37	0	0	1.12	.56	.53	.29	.41	1.46	2.03

WTR YR 1972 TOTAL 7.95 MEAN .022 MAX .62 MIN 0 CFSM .55 IN 7.39

04080976 STORM SEWER TO MIRROR LAKE AT WAUPACA, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	0	0	.15	.10	.07	.32	.01	0	0	.05
2	0	.20	0	0	.05	.13	.02	.38	0	0	0	0
3	0	.01	0	0	.02	.27	.02	.01	.02	0	0	.20
4	0	0	0	0	.01	.14	.01	0	.01	0	0	.15
5	0	0	0	0	.01	.04	0	0	.01	0	0	0
6	0	0	0	0	0	1.3	.10	0	0	0	.04	0
7	0	.02	0	0	0	.48	.01	.53	.02	0	.10	0
8	0	0	0	0	0	.03	0	.16	0	0	.05	0
9	0	0	0	0	0	0	0	.05	0	.36	.01	.05
10	0	0	0	0	0	.34	.03	.02	0	0	.04	0
11	0	0	0	0	0	.23	.03	.01	.12	0	.01	0
12	0	0	0	0	0	.02	.01	.01	.01	0	0	0
13	0	0	0	0	0	.01	.01	0	0	0	.02	0
14	0	0	0	0	0	.31	.01	0	0	0	.01	0
15	0	0	0	0	0	0	.15	0	.01	0	0	0
16	0	0	0	.01	0	0	.13	.01	.02	0	0	0
17	0	0	0	.08	0	0	0	0	.02	0	0	.11
18	0	0	0	.46	0	0	0	0	.01	0	0	0
19	0	0	0	.02	0	0	0	0	.02	0	.11	0
20	.01	0	0	0	.01	0	.94	0	.01	0	.05	0
21	.04	0	0	0	0	0	0	.02	0	0	0	0
22	.23	0	0	.01	.01	0	0	.01	0	0	0	.60
23	.09	0	0	.01	.02	0	0	.02	.08	0	.27	.10
24	0	0	0	0	0	0	0	.18	.01	.36	0	0
25	0	0	0	.03	0	0	0	.30	0	.01	0	.20
26	0	0	0	.03	0	0	0	0	0	0	0	.10
27	0	0	0	0	0	0	0	.28	0	0	0	.05
28	0	0	0	0	.02	0	0	.38	.02	0	0	0
29	.01	0	.18	0	------	0	0	.01	0	.02	0	0
30	0	0	.11	0	------	0	0	0	0	.05	0	0
31	.01	------	0	0	------	0	------	.03	------	0	0	------
TOTAL	.39	.25	.29	.65	.30	3.40	1.54	2.73	.40	.80	.71	1.61
MEAN	.013	.008	.009	.021	.011	.11	.051	.088	.013	.026	.023	.054
MAX	.23	.20	.18	.46	.15	1.3	.94	.53	.12	.36	.27	.60
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	.33	.20	.23	.53	.28	2.75	1.28	2.20	.33	.65	.58	1.35
IN.	.36	.23	.27	.60	.28	3.16	1.43	2.54	.37	.74	.66	1.50

CAL YR 1972 TOTAL 7.80 MEAN .021 MAX .62 MIN 0 CFSM .53 IN 7.25
WTR YR 1973 TOTAL 13.07 MEAN .036 MAX 1.3 MIN 0 CFSM .90 IN 12.16

04080976 STORM SEWER TO MIRROR LAKE AT WAUPACA, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	.01	.01	0	.01	0	0	0
2	0	0	0	0	0	.07	.09	0	.01	.01	.08	0
3	0	0	0	0	0	.40	.20	0	.04	0	0	0
4	.15	0	0	0	0	.02	.02	0	0	.05	0	0
5	0	0	.01	0	0	.07	.02	.01	0	0	0	0
6	0	0	0	0	0	.06	.01	0	.28	0	0	0
7	0	0	0	0	0	.01	.02	0	.03	0	0	0
8	0	0	0	0	0	.01	0	0	0	0	0	0
9	.01	0	0	0	0	.01	0	0	.54	0	0	0
10	0	0	0	0	0	.01	0	0	.08	0	.02	0
11	.04	0	0	0	0	0	.01	.25	0	0	.01	0
12	0	0	0	0	0	0	.06	0	0	0	.01	.03
13	0	0	0	0	0	0	0	.04	0	0	0	0
14	0	.11	0	0	0	0	.11	.15	0	0	0	0
15	0	.03	0	0	0	0	.01	0	0	0	0	0
16	0	.01	0	0	0	.03	0	.02	0	0	.03	0
17	0	.01	0	0	0	0	0	0	0	0	0	0
18	0	.01	0	0	0	.01	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	.07	0	.01	0	0	0	0	.01	0	0	0
21	0	.08	0	.02	0	0	0	.15	.01	0	.05	0
22	0	0	0	.01	0	0	0	.01	0	0	.02	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	.01	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	.45	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	.01	0	0	0	.01	0	0	0	0	0	0	0
28	.14	0	0	0	.02	0	0	.12	0	0	0	.01
29	0	0	0	0	------	.03	0	.01	.06	0	0	.01
30	0	0	0	0	------	.24	0	0	.01	0	.03	0
31	.04	------	0	0	------	.08	------	0	------	0	0	------
TOTAL	.39	.33	.01	.04	.03	1.06	.56	.76	1.08	.51	.25	.05
MEAN	.013	.011	.0003	.001	.001	.034	.019	.025	.036	.017	.008	.002
MAX	.15	.11	.01	.02	.02	.40	.20	.25	.54	.45	.08	.03
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	.33	.28	.008	.03	.03	.85	.48	.63	.90	.43	.20	.05
IN.	.36	.31	.009	.04	.03	.99	.52	.71	1.00	.47	.23	.05

CAL YR 1973 TOTAL 12.87 MEAN .035 MAX 1.3 MIN 0 CFSM .88 IN 11.97
WTR YR 1974 TOTAL 5.07 MEAN .014 MAX .54 MIN 0 CFSM .35 IN 4.72

04082500 LAKE WINNEBAGO AT OSHKOSH, WIS.

LOCATION.--LAT 44°00'41", LONG 88°32'01", IN SW 1/4 SEC.24, T.18 N., R.16 E., WINNEBAGO COUNTY, IN MOUTH OF THE UPPER FOX RIVER AT CHICAGO AND NORTHWESTERN RAILWAY BRIDGE, 0.2 MI (0.3 KM) DOWNSTREAM FROM MAIN STREET BRIDGE IN OSHKOSH AND 18 MI (29 KM) SOUTH OF MENASHA DAM AND OUTLET.

DRAINAGE AREA.--6,030 MI^2 (15,600 KM^2), APPROXIMATELY, AT LAKE OUTLET AT MENASHA DAM.

PERIOD OF RECORD.--OCTOBER 1938 TO CURRENT YEAR IN REPORTS OF GEOLOGICAL SURVEY. RECORDS FROM 1857 TO 1938 IN FILES OF CORPS OF ENGINEERS. A REPORT ON FOX RIVER BY CORPS OF ENGINEERS, PUBLISHED AS HOUSE DOCUMENT NO. 146, 67TH CONGRESS, 2ND SESSION, CONTAINS SEMI-MONTHLY RECORDS OF INFLOW OF LAKE WINNEBAGO FOR THE PERIOD 1896-1917.

GAGE.--NONRECORDING GAGE READ ONCE DAILY. DATUM OF GAGE IS 745.05 FT (227.091 M) ABOVE MEAN TIDE AT NEW YORK CITY (LEVELS BY CORPS OF ENGINEERS). PRIOR TO 1882, LAKE LEVELS WERE REFERRED TO DEUCHMAN GAGE AT LAKE OUTLET OF MENASHA DAM. DATUM OF DEUCHMAN GAGE, WHICH IS STILL IN EXISTENCE, IS 745.00 FT (227.076 M) ABOVE MEAN TIDE AT NEW YORK CITY.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 3.36 FT (1.02 M) MAY 13: MINIMUM OBSERVED, 0.83 FT (0.25 M) MAR. 2.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 5.33 FT (1.62 M) (DEUCHMAN GAGE) NOV. 8, 1881, MINIMUM OBSERVED, -2.00 FT (-0.61 M) (DEUCHMAN GAGE) NOV. 28, 1891.

REMARKS.--LAKE ELEVATIONS CONTROLLED BY DAMS AT MENASHA AND NEENAH, WHICH ARE OPERATED IN THE INTEREST OF NAVIGATION. CRESTS OF BOTH DAMS ARE AT ELEVATION 746.73 FT (227.603 M). PRESENT LIMITS OF REGULATION ARE FROM 21 1/4 IN. (540 MM) ABOVE THE CREST OF MENASHA DAM TO CREST DURING NAVIGATION SEASON, PLUS ADDITIONAL 18 IN. (457 MM) BELOW CREST DURING WINTER. OSHKOSH STAFF GAGE GIVES TRUE LEVEL OF LAKE, WHILE DEUCHMAN GAGE READINGS ARE AFFECTED BY LOSS OF HEAD IN THE CHANNEL BETWEEN LAKE AND DAM.

COOPERATION.--RECORDS FURNISHED BY CORPS OF ENGINEERS.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.91	2.99	2.76	2.23	1.76	.86	1.80	3.04	2.95	2.94	2.95	2.83
2	2.98	2.92	2.69	2.19	1.74	.83	1.83	2.98	2.92	2.98	2.92	2.83
3	3.00	2.96	2.63	2.16	1.74	.87	1.92	2.96	2.90	2.90	2.96	2.80
4	3.04	2.92	2.76	2.15	1.72	.99	1.94	3.09	2.94	2.86	2.92	2.80
5	2.98	2.88	2.66	2.13	1.69	1.02	2.03	3.12	2.94	2.84	2.90	2.78
6	2.98	2.92	2.73	2.11	1.64	1.06	2.06	3.18	2.94	2.82	2.90	2.77
7	2.98	2.92	2.69	2.10	1.58	1.10	2.08	3.20	2.89	2.76	2.88	2.76
8	3.02	2.83	2.64	2.06	1.54	1.12	2.10	3.21	2.93	2.71	2.86	2.77
9	2.97	2.90	2.61	2.01	1.49	1.17	2.14	3.21	2.96	2.66	2.86	2.74
10	2.97	2.90	2.56	1.98	1.48	1.27	2.16	3.24	2.94	2.58	2.86	2.76
11	3.10	2.85	2.58	1.98	1.40	1.31	2.22	3.18	3.04	2.54	2.82	2.73
12	2.90	2.86	2.54	1.96	1.36	1.33	2.22	3.18	3.08	3.02	2.84	2.78
13	2.94	2.86	2.54	1.92	1.32	1.36	2.26	3.36	3.10	3.02	2.81	2.76
14	2.98	2.90	2.48	1.88	1.28	1.42	2.35	3.28	3.06	2.95	2.76	2.72
15	2.94	2.98	2.48	1.94	1.24	1.44	2.56	3.31	3.06	3.06	2.75	2.72
16	2.99	2.92	2.46	1.86	1.20	1.49	2.60	3.36	3.06	3.04	2.80	2.72
17	2.96	2.92	2.41	1.82	1.17	1.54	2.62	3.29	3.12	2.94	2.85	2.73
18	2.98	2.90	2.44	1.84	1.16	1.58	2.69	3.28	3.13	2.94	2.84	2.70
19	2.90	2.92	2.36	1.80	1.15	1.62	2.71	3.15	3.06	2.93	2.80	2.70
20	2.99	2.93	2.34	1.84	1.12	1.65	2.74	3.08	3.08	2.89	2.72	2.68
21	2.94	2.76	2.32	1.84	1.06	1.69	2.71	3.04	3.03	2.84	2.70	2.70
22	2.96	2.82	2.31	1.82	1.08	1.76	2.74	3.04	3.06	2.82	2.78	2.70
23	2.94	2.82	2.26	1.82	1.06	1.78	2.86	2.92	2.99	2.84	2.92	2.62
24	2.94	2.78	2.26	1.80	1.03	1.78	2.85	2.94	3.06	2.79	2.94	2.66
25	2.86	2.82	2.26	1.80	1.00	1.80	2.86	2.99	3.02	2.90	2.90	2.64
26	2.92	2.79	2.26	1.78	.96	1.81	2.85	2.98	3.03	2.96	2.86	2.64
27	2.86	2.76	2.28	1.83	.92	1.84	2.87	3.00	3.04	2.94	2.88	2.62
28	3.06	2.70	2.26	1.83	.89	1.86	2.85	3.00	3.02	2.92	2.87	2.65
29	2.96	2.74	2.26	1.80	------	1.88	2.88	3.00	2.99	2.90	2.84	2.66
30	2.96	2.71	2.26	1.80	------	1.86	2.94	3.01	2.99	2.92	2.81	2.60
31	2.92	------	2.25	1.78	------	1.84	------	2.95	------	2.93	2.80	------
MEAN	2.96	2.86	2.46	1.93	1.31	1.45	2.45	3.12	3.01	2.88	2.85	2.72
MAX	3.10	2.99	2.76	2.23	1.76	1.88	2.94	3.36	3.13	3.06	2.96	2.83
MIN	2.86	2.70	2.25	1.78	.89	.83	1.80	2.92	2.89	2.54	2.70	2.60

WTR YR 1974 MEAN 2.51 MAX 3.36 MIN .83

04084500 FOX RIVER AT RAPIDE CROCHE DAM, NEAR WRIGHTSTOWN, WIS.

LOCATION.--LAT 44°19'03", LONG 88°11'50", IN SE 1/4 SEC.4, T.21 N., R.19 E., OUTAGAMIE COUNTY, AT RAPIDE CROCHE DAM, 2.0 MI (3.2 KM) UPSTREAM FROM WRIGHTSTOWN, AND 18 MI (29 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--6,150 MI^2 (15,930 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--MARCH 1896 TO SEPTEMBER 1917 (MONTHLY DISCHARGE ONLY); OCTOBER 1917 TO CURRENT YEAR.

GAGE.--RECORDING HEADWATER AND TAILWATER GAGES AND ELECTRIC GENERATION ARE READ THREE TIMES A DAY AND USED TO COMPUTE THE DISCHARGE RECORDS.

AVERAGE DISCHARGE.--78 YEARS, 4,188 FT^3/S (118.6 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DAILY DISCHARGE DURING YEAR, 12,400 FT^3/S (351 M^3/S) MAY 17; MINIMUM DAILY, 995 FT^3/S (28.2 M^3/S) SEPT. 30.

PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE, 24,000 FT^3/S (680 M^3/S) APR. 18, 1952; MINIMUM DAILY, 138 FT^3/S (3.91 M^3/S) AUG. 2, 1936.

REMARKS.--RECORDS GOOD. FLOW REGULATED BY STORAGE IN LAKE WINNEBAGO (SEE P. 66). DAILY DISCHARGE DETERMINED FROM RECORDS OF FLOW THROUGH TURBINES, HEAD, GATE OPENINGS, AND LOCKAGES THROUGH NAVIGATION CANAL. USUALLY LESS THAN ABOUT 5 FT^3/S (0.14 M^3/S) DIVERTED INTO BASIN FROM WISCONSIN RIVER AT PORTAGE CANAL THROUGHOUT THE YEAR.

COOPERATION.--FIGURES OF DAILY DISCHARGE FURNISHED BY CORPS OF ENGINEERS. RECORDS REVIEWED BY GEOLOGICAL SURVEY.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,320	3,060	4,700	3,520	4,830	4,440	6,940	2,220	5,560	3,720	2,400	1,820
2	2,360	3,840	4,630	3,860	5,760	4,730	7,960	2,260	5,820	2,720	2,570	1,940
3	2,110	3,050	4,430	4,170	5,050	6,410	7,970	2,060	6,160	2,200	2,170	1,740
4	2,160	3,370	4,440	3,160	5,300	6,060	9,850	2,400	7,110	3,160	2,520	1,840
5	2,240	3,560	4,670	3,280	6,380	5,000	8,610	2,800	6,320	1,450	2,220	2,000
6	2,320	2,830	4,520	3,480	7,000	5,260	8,000	2,100	5,020	5,330	2,140	1,860
7	2,500	3,340	4,720	3,290	6,900	5,360	8,500	2,710	5,290	2,940	2,200	1,900
8	2,200	3,340	5,120	3,310	7,300	5,280	8,340	2,600	5,860	2,880	2,060	1,750
9	2,400	3,040	4,820	3,480	6,980	5,480	7,920	2,740	7,880	2,450	2,020	1,970
10	2,480	3,380	4,530	3,320	6,800	5,540	8,960	2,940	7,100	2,600	2,500	1,700
11	2,570	3,310	4,380	3,540	6,500	5,600	8,620	3,180	7,540	2,170	2,200	1,870
12	3,240	3,480	4,550	3,230	5,480	5,560	9,260	3,020	7,590	2,640	2,180	1,930
13	2,080	3,300	4,450	3,120	5,770	5,380	9,470	3,720	7,580	2,890	2,160	1,720
14	2,500	3,240	4,830	3,300	5,680	6,100	9,420	7,220	7,530	2,480	2,110	1,800
15	2,500	3,720	4,680	3,300	5,630	6,010	9,000	7,620	9,030	1,900	2,120	1,970
16	2,260	4,340	4,080	3,280	5,380	6,370	8,800	8,700	8,990	2,660	1,880	1,780
17	2,230	4,660	4,680	3,440	5,610	6,090	9,900	12,400	8,680	1,880	2,550	1,770
18	2,220	4,440	4,420	3,850	5,550	6,690	9,720	11,500	9,140	2,910	1,910	1,780
19	2,750	4,500	3,860	3,610	5,520	6,440	9,650	11,400	9,180	2,300	2,130	1,710
20	2,840	5,440	4,210	3,400	5,230	5,950	9,980	11,400	8,620	1,920	2,200	1,670
21	2,950	4,750	4,240	2,580	5,420	3,790	10,300	11,300	8,500	2,140	2,440	1,490
22	3,190	5,020	4,350	3,760	5,440	5,150	10,200	11,100	8,350	2,060	2,140	1,550
23	2,950	4,740	4,230	3,650	5,060	4,240	9,900	10,700	7,520	1,840	2,040	1,720
24	2,910	4,820	4,180	2,920	5,040	4,070	10,200	7,770	7,430	2,060	2,290	1,970
25	3,000	4,810	4,200	3,680	4,760	4,330	10,300	6,020	7,540	2,690	1,910	1,880
26	3,300	4,840	3,940	3,740	4,440	4,340	9,040	5,840	7,000	2,540	2,330	1,860
27	3,810	4,960	4,260	3,600	4,260	4,330	8,100	6,660	3,040	2,280	2,180	1,420
28	3,980	4,810	4,340	3,900	4,200	4,430	8,340	6,560	5,020	2,120	2,180	1,340
29	2,660	4,860	2,940	4,660	------	5,100	7,440	6,260	3,880	2,500	1,900	1,280
30	3,320	5,220	4,180	4,740	------	7,120	3,820	5,980	4,100	2,300	2,110	995
31	3,900	------	4,280	7,120	------	7,290	------	5,740	------	2,330	2,000	------
TOTAL	84,250	122,070	135,860	113,290	157,270	167,940	264,510	188,920	208,380	78,060	67,760	52,025
MEAN	2,718	4,069	4,383	3,655	5,617	5,417	8,817	6,094	6,946	2,518	2,186	1,734
MAX	3,980	5,440	5,120	7,120	7,300	7,290	10,300	12,400	9,180	5,330	2,570	2,000
MIN	2,080	2,830	2,940	2,580	4,200	3,790	3,820	2,060	3,040	1,450	1,880	995

CAL YR 1973 TOTAL 2,543,350 MEAN 6,968 MAX 17,000 MIN 1,760
WTR YR 1974 TOTAL 1,640,335 MEAN 4,494 MAX 12,400 MIN 995

04085200 KEWAUNEE RIVER NEAR KEWAUNEE, WIS.

LOCATION.--LAT 44°27'30", LONG 87°33'23", IN SW 1/4 SEC.14, T.23 N., R.24 E., KEWAUNEE COUNTY, ON LEFT BANK JUST DOWNSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY F, 2.3 MI (3.7 KM) WEST OF KEWAUNEE, AND ABOUT 7.0 MI (11.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--129 MI^2 (334 KM^2).

PERIOD OF RECORD.--ANNUAL MAXIMUM, WATER YEARS 1958-65, AND OCCASIONAL LOW-FLOW MEASUREMENTS, WATER YEARS 1963-64. SEPTEMBER 1964 TO CURRENT YEAR. NO WINTER RECORDS FOR YEARS 1965 AND 1966.

GAGE.--WATER-STAGE RECORDER AND CREST-STAGE GAGE. ALTITUDE OF GAGE IS ABOUT 590 FT (180 M), FROM TOPOGRAPHIC MAP. APR. 3, 1957, TO SEPT. 2, 1964, CREST-STAGE GAGE ONLY AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--8 YEARS, 83.3 FT^3/S (2.359 M^3/S), 8.77 IN/YR (223 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,590 FT^3/S (102 M^3/S) MAR. 4, GAGE HEIGHT, 14.13 FT (4.307 M); MINIMUM DISCHARGE, 19 FT^3/S (0.54 M^3/S) SEPT. 5, 6, 8, GAGE HEIGHT, 8.58 FT (2.615 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 6,500 FT^3/S (184 M^3/S) MAR. 30, 1960, GAGE HEIGHT, 16.03 FT (4.886 M); MINIMUM RECORDED, 4.5 FT^3/S (0.13 M^3/S) NOV. 3, 4, 1966, GAGE HEIGHT, 8.14 FT (2.481 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE POOR.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 7 TO MAR. 3, MAR. 23, 24.)

OCT. 1 TO MAR. 4				MAR. 5 TO SEPT. 30			
8.7	19	11.0	580	8.6	20	10.0	292
9.0	43	12.0	1,190	8.8	38	11.0	715
9.5	110	13.0	2,120	9.1	76	12.0	1,390
10.0	219	14.0	3,390	9.5	152		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	182	47	45	110	48	124	63	47	65	28	21
2	29	160	43	37	94	50	260	61	46	101	27	21
3	28	96	42	34	80	350	373	63	47	333	27	21
4	28	72	49	32	66	2,250	392	65	48	242	27	20
5	28	56	196	30	58	877	336	94	42	134	26	20
6	28	45	280	29	52	865	233	120	39	82	25	20
7	28	42	120	29	50	787	286	92	39	58	24	20
8	28	38	90	28	48	460	319	78	39	46	24	22
9	31	38	66	28	46	420	211	70	214	40	24	39
10	35	34	54	28	45	369	164	65	1,110	36	23	46
11	42	32	48	28	45	295	150	96	615	34	32	34
12	45	34	43	28	44	239	260	137	382	33	32	31
13	38	36	38	28	44	177	468	103	150	32	28	35
14	34	38	36	28	43	148	424	400	99	30	24	36
15	31	48	34	28	43	139	775	460	87	28	24	30
16	28	55	32	29	43	143	512	230	172	28	31	26
17	26	49	31	30	43	141	299	162	440	27	44	25
18	26	54	30	32	43	130	206	118	420	27	36	24
19	25	57	29	35	43	118	154	92	257	26	32	24
20	25	51	29	40	43	116	130	84	141	25	27	22
21	25	52	28	50	43	105	122	101	96	24	25	23
22	25	60	28	58	43	87	118	195	75	39	24	22
23	25	55	28	70	43	80	114	132	63	42	24	22
24	25	50	28	66	42	70	101	87	56	35	24	22
25	25	48	45	68	43	63	90	68	49	54	23	23
26	25	46	110	76	44	65	84	59	45	78	21	22
27	27	44	150	100	45	59	79	54	44	57	22	21
28	82	54	130	130	46	59	76	53	40	41	21	22
29	188	70	100	140	------	59	70	58	38	35	20	22
30	123	57	66	140	------	62	66	57	58	32	20	24
31	97	------	56	130	------	68	------	50	------	31	22	------
TOTAL	1,280	1,753	2,106	1,654	1,432	8,899	6,996	3,567	4,998	1,895	811	760
MEAN	41.3	58.4	67.9	53.4	51.1	287	233	115	167	61.1	26.2	25.3
MAX	188	182	280	140	110	2,250	775	460	1,110	333	44	46
MIN	25	32	28	28	42	48	66	50	38	24	20	20
CFSM	.32	.45	.53	.41	.40	2.22	1.81	.89	1.29	.47	.20	.20
IN.	.37	.51	.61	.48	.41	2.57	2.02	1.03	1.44	.55	.23	.22

CAL YR 1973 TOTAL 50,548 MEAN 138 MAX 2,630 MIN 24 CFSM 1.07 IN 14.58
WTR YR 1974 TOTAL 36,151 MEAN 99.0 MAX 2,250 MIN 20 CFSM .77 IN 10.42

PEAK DISCHARGE (BASE, 800 FT^3/S, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 4	0300	14.13	3,590	6-10	1600	11.96	1,350
4-15	1100	11.28	883				

04085281 EAST TWIN RIVER AT MISHICOT, WIS.

LOCATION.--LAT 44°14'16", LONG 87°38'11", IN NW 1/4 NW 1/4 SEC.4, T.20 N., R.24 E., MANITOWOC COUNTY, ON RIGHT BANK 500 FT (152 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 147, AT MISHICOT, 0.8 MI (1.3 KM) UPSTREAM FROM JOHNSON CREEK, AND 9.8 MI (15.8 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--111 MI^2 (287 KM^2).

PERIOD OF RECORD.--JULY 1972 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 584.72 FT (178.223 M) ABOVE MEAN SEA LEVEL.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,060 FT^3/S (30.0 M^3/S) MAR. 4, GAGE HEIGHT, 9.96 FT (3.036 M); MINIMUM DAILY, 11 FT^3/S (0.31 M^3/S) SEPT. 5-8.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,090 FT^3/S (87.5 M^3/S) MAY 28, 1973, GAGE HEIGHT, 13.19 FT (4.020 M); MINIMUM DAILY, 11 FT^3/S (0.31 M^3/S) SEPT. 5-8, 1974.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. OCCASIONAL REGULATION CAUSED BY RECREATION DAM 0.3 MI (0.5 KM) UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED OCT. 29 TO NOV. 16, MAR. 11 TO APR. 2, APR. 7-12, APR. 18-27, MAY 2 TO JUNE 5, AUG. 26 TO SEPT. 30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11-26, JAN. 1 TO MAR. 3, MAR. 23-26.)

3.8	9.5	7.0	346
4.0	16	8.0	512
4.5	35	9.0	750
5.0	76	10.0	1,080
6.0	199		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	260	72	120	160	40	109	64	60	33	20	14
2	122	220	65	76	140	42	228	59	52	30	19	15
3	69	169	62	64	120	220	461	56	50	30	17	14
4	50	113	82	54	90	942	524	55	51	29	17	12
5	42	84	362	47	74	906	480	60	47	29	17	11
6	38	67	410	44	62	852	368	94	45	28	17	11
7	36	58	306	42	58	810	315	96	43	29	18	11
8	35	53	189	41	54	539	282	78	41	24	16	11
9	35	47	139	40	50	514	237	67	250	22	15	13
10	41	44	108	40	46	415	184	62	500	22	15	24
11	87	45	94	40	43	344	185	67	350	22	18	22
12	108	44	84	40	40	280	255	84	190	21	23	19
13	84	48	74	39	39	220	394	84	140	20	22	20
14	63	52	64	39	37	178	476	254	110	20	19	21
15	54	83	60	39	35	162	732	327	100	19	17	18
16	48	111	56	39	35	164	566	279	130	19	14	16
17	46	99	54	39	34	168	417	203	200	18	19	15
18	44	95	52	40	33	158	294	150	220	18	19	15
19	42	103	52	42	32	145	220	113	150	17	19	14
20	42	88	52	44	32	145	176	89	73	16	18	14
21	40	96	50	50	32	126	156	81	59	16	17	14
22	40	99	50	68	32	109	147	160	49	15	16	14
23	40	87	50	80	33	94	140	163	40	19	16	14
24	41	79	50	90	33	84	126	109	36	21	15	14
25	42	78	58	100	34	74	113	79	33	24	15	15
26	42	74	260	110	36	68	103	65	30	34	14	14
27	46	71	363	150	38	63	95	57	28	32	13	14
28	156	82	360	230	39	62	90	56	27	25	13	14
29	302	85	282	210	------	62	80	84	25	22	13	14
30	284	78	268	190	------	64	72	83	30	21	13	14
31	212	------	229	180	------	71	------	71	------	20	13	------
TOTAL	2,364	2,712	4,457	2,427	1,491	8,121	8,025	3,349	3,159	715	517	451
MEAN	76.3	90.4	144	78.3	53.3	262	268	108	105	23.1	16.7	15.0
MAX	302	260	410	230	160	942	732	327	500	34	23	24
MIN	33	44	50	39	32	40	72	55	25	15	13	11
CFSM	.69	.81	1.30	.71	.48	2.36	2.41	.97	.95	.21	.15	.14
IN.	.79	.91	1.49	.81	.50	2.72	2.69	1.12	1.06	.24	.17	.15

CAL YR 1973 TOTAL 48,832 MEAN 134 MAX 2,060 MIN 18 CFSM 1.21 IN 16.37
WTR YR 1974 TOTAL 37,788 MEAN 104 MAX 942 MIN 11 CFSM .94 IN 12.66

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 8-73	--	A 9.20	A 800	3- 4-74	1000	9.96	1,060
3-12-73	--	A 9.70	A 960	4- 4-74	2200	8.16	539
4-15-73	0800	8.05	520	4-15-74	0700	9.10	780
4-21-73	2200	8.03	517	6-10-74	0200	8.02	515
5-28-73	1900	13.19	3,090				

A ABOUT

04085427 MANITOWOC RIVER AT MANITOWOC, WIS.

LOCATION.--LAT 44°06'26", LONG 87°42'55", IN NE 1/4 NW 1/4 SEC.23, T.19 N., R.23 E., MANITOWOC COUNTY, ON RIGHT BANK 300 FT (91 M) UPSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY JJ, JUST WEST OF THE MANITOWOC CITY LIMITS AND 6.6 MI (10.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--530 MI^2 (1,373 KM^2).

PERIOD OF RECORD.--JULY 1972 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 610.12 FT (185.965 M) ABOVE MEAN SEA LEVEL.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,070 FT^3/S (86.9 M^3/S) MAR. 6, GAGE HEIGHT, 9.51 FT (2.899 M); MAXIMUM GAGE HEIGHT, 11.50 FT (3.505 M) MAR. 4 (BACKWATER FROM ICE); MINIMUM, 24 FT^3/S (0.68 M^3/S) SEPT. 26, GAGE HEIGHT, 3.97 FT (1.210 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,140 FT^3/S (88.9 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 9.67 FT (2.947 M); MAXIMUM GAGE HEIGHT, 11.50 FT (3.505 M) MAR. 4, 1974 (BACKWATER FROM ICE); MINIMUM, 24 FT^3/S (0.68 M^3/S) SEPT. 14-17, 1973, SEPT. 26, 1974.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED MAR. 4 TO JULY 4; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11 TO MAR. 5.)

3.9	23	6.0	590
4.2	69	7.0	1,080
4.6	150	9.0	2,490
5.0	248	10.0	3,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	300	185	360	390	170	446	685	324	243	67	37
2	67	295	175	280	330	180	653	608	289	232	67	37
3	64	278	173	220	300	1,000	1,090	554	256	222	66	34
4	59	262	197	190	270	2,000	1,490	522	251	210	64	33
5	55	248	421	170	250	2,400	1,540	476	240	192	59	30
6	55	212	417	160	230	2,580	1,450	465	230	183	59	30
7	57	180	365	150	210	2,630	1,450	428	220	168	59	30
8	57	143	362	140	190	2,420	1,400	368	212	162	61	29
9	55	124	333	140	180	2,320	1,370	333	558	152	64	31
10	59	173	283	140	170	2,190	1,320	303	775	143	64	30
11	115	122	250	140	170	2,100	1,250	295	780	132	78	30
12	137	113	220	140	160	1,950	1,280	289	810	128	74	31
13	141	111	200	130	160	1,810	1,330	286	712	120	71	34
14	159	111	180	130	150	1,720	1,830	457	640	118	64	34
15	157	130	170	130	150	1,620	2,190	506	631	107	57	33
16	135	150	160	130	150	1,540	2,000	562	649	101	55	31
17	120	157	160	130	150	1,460	1,810	558	658	95	57	30
18	107	159	150	130	150	1,390	1,690	522	667	91	55	29
19	97	173	150	130	140	1,300	1,580	502	685	85	52	29
20	91	178	150	140	140	1,220	1,480	480	662	78	49	29
21	87	183	150	170	140	1,130	1,390	480	595	73	49	27
22	83	192	150	200	140	1,040	1,320	487	538	71	46	27
23	82	200	150	220	140	815	1,280	465	483	67	44	27
24	85	197	150	210	140	800	1,210	421	450	64	44	27
25	85	192	160	200	140	761	1,110	375	417	78	42	29
26	83	190	300	210	150	667	1,020	333	372	85	38	27
27	91	187	680	330	160	635	940	300	330	80	46	29
28	195	197	640	370	160	570	875	303	303	78	38	27
29	278	207	580	380	------	499	825	375	281	73	38	27
30	264	200	500	400	------	480	752	346	267	71	36	26
31	262	------	440	410	------	450	------	327	------	67	40	------
TOTAL	3,436	5,564	8,601	6,380	5,210	41,847	39,371	13,411	14,285	3,769	1,703	904
MEAN	111	185	277	206	186	1,350	1,312	433	476	122	54.9	30.1
MAX	278	300	680	410	390	2,630	2,190	685	810	243	78	37
MIN	54	111	150	130	140	170	446	286	212	64	36	26
CFSM	.21	.35	.52	.39	.35	2.55	2.48	.82	.90	.23	.10	.06
IN.	.24	.39	.60	.45	.37	2.94	2.76	.94	1.00	.26	.12	.06

CAL YR 1973 TOTAL 168,801 MEAN 462 MAX 2,570 MIN 26 CFSM .87 IN 11.85
WTR YR 1974 TOTAL 144,481 MEAN 396 MAX 2,630 MIN 26 CFSM .75 IN 10.14

PEAK DISCHARGE (BASE, 800 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24-72	--	--	A 800	5-10-73	0500	7.19	1,190
1-25-73	--	--	A 1,300	5-29-73	0700	9.27	2,730
3- 7-73	0800	9.67	3,140	3- 6-74	1500	9.51	3,070
3-14-73	1200	9.35	2,810	4- 4-74	2000	7.64	1,540
4-14-73	2300	7.58	1,430	4-14-74	2100	8.81	2,420
4-21-73	1300	7.80	1,580	6-12-74	0200	6.31	825
5- 2-73	1300	7.10	1,140				

A ABOUT

04085500 CEDAR LAKE NEAR KIEL, WIS.

LOCATION (REVISED).--LAT 43°55'35", LONG 87°56'23", IN SW 1/4 SEC.5, T.17 N., R.21 E., MANITOWOC COUNTY, ON NORTH SHORE OF CEDAR LAKE AT PUBLIC BEACH, 0.8 MI (1.3 KM) SOUTHEAST OF LOUIS CORNERS, AND 5.1 MI (8.2 KM) NORTHEAST OF KIEL.

DRAINAGE AREA.--1.33 MI^2 (3.44 KM^2).

PERIOD OF RECORD.--AUGUST 1936 TO SEPTEMBER 1942; APRIL 1945 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 895 FT (273 M), FROM TOPOGRAPHIC MAP. PRIOR TO MAY 8, 1974, NONRECORDING GAGE AT SITE 500 FT (152 M) SOUTHWEST AND AT ALTITUDE 5 FT (1.5 M) LOWER.

EXTREMES.--CURRENT YEAR: MAXIMUM ELEVATION, 99.15 FT (30.221 M) JUNE 11, 18-21; MINIMUM OBSERVED, 97.63 FT (29.758 M) OCT. 3, 6.

PERIOD OF RECORD: MAXIMUM ELEVATION, 99.15 FT (30.221 M) JUNE 11, 18-21, 1974; MINIMUM OBSERVED, 93.34 FT (28.450 M) OCT. 4, NOV. 1, 1958, JAN. 17, 1959.

AN ELEVATION OF 100.37 FT (30.592 M) WAS OBSERVED MAY 20, 1929, BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

REMARKS.--GAGE HEIGHTS HAVE BEEN REDUCED TO ELEVATIONS ABOVE DATUM ASSUMED FOR THIS LAKE BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES. LAKE ICE COVERED ABOUT DEC. 3 TO MAR. 4. RECORDS OF WATER TEMPERATURES ARE PUBLISHED IN PART 2 OF THIS REPORT.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									8.99	9.01	8.80	8.50
2									9.00	9.13	8.79	8.49
3	7.63	7.65							9.00	9.14	8.77	8.47
4									9.00	9.13	8.76	8.44
5									9.00	9.12	8.74	8.44
6	7.63								8.98	9.11	8.73	8.42
7		7.65							8.98	9.09	8.72	8.41
8								8.88	8.98	9.07	8.71	8.40
9								8.88	9.07	9.04	8.69	8.39
10		7.64						8.87	9.14	9.03	8.68	8.38
11								8.89	9.15	9.01	8.69	8.37
12								8.89	9.14	8.99	8.69	8.38
13	7.71							8.97	9.13	8.98	8.69	8.39
14								8.99	9.12	8.97	8.68	8.38
15								8.99	9.11	8.95	8.67	8.36
16								9.00	9.13	8.93	8.65	8.35
17		7.70						9.00	9.14	8.91	8.65	8.34
18								9.00	9.15	8.90	8.65	8.32
19								8.99	9.15		8.64	8.31
20	7.81							9.00	9.15		8.63	8.30
21								9.00	9.15		8.61	8.29
22								9.03	9.13		8.60	8.27
23								9.02	9.11		8.58	8.25
24		7.65						9.00	9.09	8.82	8.56	8.23
25								8.99	9.08	8.86	8.55	8.22
26								8.98	9.07	8.89	8.54	8.22
27	7.65							8.97	9.06	8.88	8.55	8.22
28								8.98	9.05	8.86	8.55	8.21
29					------			9.00	9.04	8.85	8.53	8.21
30				8.09	------			9.00	9.02	8.83	8.51	8.19
31		------			------		------	8.99	------	8.82	8.51	------

NOTE.--ADD 90 FT (27 M) TO OBTAIN ELEVATION ABOVE DATUM ASSUMED FOR THIS LAKE BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

04086000 SHEBOYGAN RIVER AT SHEBOYGAN, WIS.

LOCATION.--LAT 43°44'25", LONG 87°45'35", IN SE 1/4 NE 1/4 SEC.29, T.15 N., R.23 E., SHEBOYGAN COUNTY, ON LEFT BANK 400 FT (122 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 141, NEAR WEST CITY LIMITS OF SHEBOYGAN, AND 4.2 MI (5.8 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--432 MI^2 (1,119 KM^2).

PERIOD OF RECORD.--JUNE 1916 TO SEPTEMBER 1924 (PUBLISHED AS "NEAR SHEBOYGAN"), OCTOBER 1950 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1307, 1727.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 584.00 FT (178.00 M) ABOVE MEAN SEA LEVEL. JUNE 1916 TO JUNE 1924, NONRECORDING GAGE AT SITE 0.7 MI (1.1 M) DOWNSTREAM AT DIFFERENT DATUM. NOVEMBER 1950 TO JUNE 1951, NONRECORDING GAGE AT SITE 0.3 MI (0.5 KM) DOWNSTREAM AT DATUM 3.15 FT (0.960 M) LOWER.

AVERAGE DISCHARGE.--32 YEARS (1916-24, 1950-74), 234 FT^3/S (6.627 M^3/S), 7.36 IN/YR (187 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,430 FT^3/S (97.1 M^3/S) APR. 14, GAGE HEIGHT, 8.15 FT (2.484 M); MAXIMUM GAGE HEIGHT, 10.28 FT (3.133 M) MAR. 4, BACKWATER FROM ICE; MINIMUM, 48 FT^3/S (1.36 M^3/S) SEPT. 18, GAGE HEIGHT, 1.77 FT (0.539 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE OBSERVED, 7,140 FT^3/S (202.2 M^3/S) MAR. 26, 1920, GAGE HEIGHT, 9.40 FT (2.865 M) DATUM THEN IN USE; MINIMUM OBSERVED, ABOUT 1 FT^3/S (0.028 M^3/S) AUG. 27, 1922, GAGE HEIGHT, 1.48 FT (0.451 M) DATUM THEN IN USE, CAUSED BY SHUTDOWN OF POWERPLANTS.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. DIURNAL FLUCTUATION CAUSED BY NUMEROUS POWERPLANTS ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 1307: 1917(M), 1919(M), 1921(M), 1923(M), WSP 1557: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED MAR. 5-22, MAR. 31 TO APR. 13; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 10-15, DEC. 21 TO MAR. 5, MAR. 24-27.)

1.8	51	4.0	580
2.0	75	6.0	1,610
2.5	156	8.0	3,200
3.0	266		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	320	205	400	920	210	860	282	221	163	73	93
2	109	340	188	320	740	230	995	195	220	197	70	88
3	139	310	186	260	460	700	1,030	161	176	293	73	78
4	142	280	228	230	280	2,800	1,530	226	220	208	69	74
5	159	250	684	210	250	3,000	1,360	237	208	168	70	71
6	137	210	740	210	230	2,820	1,070	244	193	161	70	69
7	132	198	544	200	230	2,440	955	230	185	146	66	68
8	125	196	410	200	220	2,280	900	233	180	133	71	68
9	128	176	365	200	220	2,610	835	253	752	138	59	68
10	134	164	270	200	220	2,380	780	246	1,500	411	61	68
11	166	192	220	190	210	1,950	744	255	1,230	404	75	67
12	340	170	200	190	210	1,670	830	286	885	262	82	70
13	310	176	200	190	220	1,440	905	278	612	163	88	77
14	270	176	200	190	220	1,260	2,300	622	504	139	91	82
15	240	205	190	190	210	1,120	2,630	648	491	113	82	77
16	210	212	190	190	200	1,060	1,690	571	516	97	66	72
17	170	212	212	200	200	1,070	1,160	780	524	89	75	75
18	150	214	223	210	190	960	962	745	548	79	87	58
19	140	218	207	220	190	840	900	569	516	76	81	64
20	130	212	203	250	190	652	823	491	473	72	73	64
21	130	212	210	300	200	584	762	453	425	66	69	63
22	120	223	210	380	200	532	838	470	384	86	68	60
23	120	214	210	300	200	416	779	449	330	92	78	60
24	120	212	210	230	210	400	681	400	306	97	68	62
25	120	205	250	220	220	380	608	343	272	116	65	68
26	110	201	700	230	230	370	549	310	254	160	70	71
27	120	203	980	660	190	350	497	258	233	158	110	68
28	140	216	800	920	200	344	446	260	212	119	114	66
29	260	228	660	740	------	330	424	274	188	94	110	76
30	390	209	600	640	------	344	380	263	170	84	79	80
31	350	------	500	900	------	540	------	244	------	76	93	------
TOTAL	5,410	6,554	11,195	9,970	7,460	36,082	29,223	11,276	12,928	4,660	2,406	2,125
MEAN	175	218	361	322	266	1,164	974	364	431	150	77.6	70.8
MAX	390	340	980	920	920	3,000	2,630	780	1,500	411	114	93
MIN	99	164	186	190	190	210	380	161	170	66	59	58
CFSM	.41	.50	.84	.75	.62	2.69	2.25	.84	1.00	.35	.18	.16
IN.	.47	.56	.96	.86	.64	3.11	2.52	.97	1.11	.40	.21	.18

CAL YR 1973 TOTAL 143,304 MEAN 393 MAX 2,970 MIN 46 CFSM .91 IN 12.34
WTR YR 1974 TOTAL 139,289 MEAN 382 MAX 3,000 MIN 58 CFSM .88 IN 11.99

PEAK DISCHARGE (BASE, 1,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 5	2200	8.04	3,400	4-14	2200	8.15	3,430
4- 4	1600	5.84	1,610	6-10	1000	6.09	1,700

04086150 MILWAUKEE RIVER AT KEWASKUM, WIS.

LOCATION.--LAT 43°31'02", LONG 88°13'24", IN SE 1/4 SE 1/4 SEC.9, T.12 N., R.19 E., WASHINGTON COUNTY, ON RIGHT ABUTMENT OF SMALL DAM IN KEWASKUM, 50 FT (15 M) ABOVE UNNAMED TRIBUTARY AND 2.6 MI (4.2 KM) ABOVE EAST BRANCH MILWAUKEE RIVER.

DRAINAGE AREA.--146 MI^2 (378 KM^2).

PERIOD OF RECORD.--APRIL 1968 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 930 FT (283 M) FROM TOPOGRAPHIC MAP. PRIOR TO AUG. 21, 1973, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--6 YEARS, 87.3 FT^3/S (2.471 M^3/S), 8.12 IN/YR (206 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,200 FT^3/S (34.0 M^3/S) MAR. 5, GAGE HEIGHT, 6.66 FT (2.030 M); MINIMUM, 12 FT^3/S (0.34 M^3/S) NOV. 9, GAGE HEIGHT, 2.04 FT (0.622 M), RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,200 FT^3/S (34.0 M^3/S) MAR. 5, 1974, GAGE HEIGHT, 6.66 FT (2.030 M); MINIMUM OBSERVED, 1.1 FT^3/S (0.031 M^3/S) AUG. 25-28, 1970, GAGE HEIGHT, 1.64 FT (0.500 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR THE WINTER PERIOD, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8, 9, 11-25, DEC. 29 TO MAR. 3, MAR. 24-28.)

2.0	10	4.0	238
2.2	20	5.0	472
2.5	40	6.0	850
3.0	88	7.0	1,400
3.5	157		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	89	48	35	84	72	243	128	65	38	34	26
2	28	78	46	30	78	82	258	117	61	50	32	24
3	30	69	46	27	72	280	278	111	63	47	32	23
4	41	61	61	25	68	1,030	368	92	72	44	32	22
5	46	53	151	24	64	1,010	327	92	56	42	32	20
6	38	44	131	23	62	925	318	86	58	38	32	19
7	37	41	108	23	62	796	296	82	57	35	32	17
8	39	39	90	23	60	752	256	90	57	32	30	17
9	38	33	70	22	60	748	224	101	206	32	29	17
10	49	34	58	22	60	612	202	98	368	78	29	16
11	94	32	52	22	60	493	190	127	300	100	36	16
12	72	33	48	22	58	406	214	128	307	74	52	16
13	60	36	45	22	58	325	222	127	284	69	42	19
14	55	38	42	22	58	270	580	188	239	58	28	19
15	51	46	40	22	58	242	648	183	200	49	25	17
16	44	55	38	23	58	238	537	249	167	41	39	17
17	38	52	37	23	58	243	472	378	153	36	59	16
18	35	52	35	23	58	229	370	288	145	32	40	15
19	32	52	34	24	58	227	304	252	149	29	32	15
20	30	51	33	25	58	209	261	214	146	26	28	14
21	28	57	32	27	58	190	245	180	135	24	26	14
22	27	57	31	29	58	169	233	157	114	27	23	14
23	26	54	30	31	56	134	215	134	94	26	22	13
24	26	55	30	34	56	110	210	113	78	25	20	14
25	26	56	40	39	58	100	204	100	69	53	18	16
26	25	54	93	45	60	100	194	89	61	75	21	15
27	28	54	84	70	64	100	178	78	55	62	53	15
28	58	58	77	84	68	100	163	78	49	52	37	16
29	86	56	70	92	------	106	152	80	45	46	28	21
30	75	53	52	94	------	152	139	76	41	42	25	21
31	76	------	44	92	------	201	------	70	------	38	28	------
TOTAL	1,362	1,542	1,796	1,119	1,730	10,651	8,501	4,286	3,894	1,420	996	524
MEAN	43.9	51.4	57.9	36.1	61.8	344	283	138	130	45.8	32.1	17.5
MAX	94	89	151	94	84	1,030	648	378	368	100	59	26
MIN	24	32	30	22	56	72	139	70	41	24	18	13
CFSM	.30	.35	.40	.25	.42	2.36	1.94	.95	.89	.31	.22	.12
IN.	.35	.39	.46	.29	.44	2.71	2.17	1.09	.99	.36	.25	.13

CAL YR 1973 TOTAL 55,738 MEAN 153 MAX 1,100 MIN 16 CFSM 1.05 IN 14.20
WTR YR 1974 TOTAL 37,821 MEAN 104 MAX 1,030 MIN 13 CFSM .71 IN 9.64

PEAK DISCHARGE (BASE, 300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 5	1900	6.66	1,200	5-17	0400	4.80	414
4- 4	1000	4.69	383	6- 9	2300	5.21	537
4-14	2000	5.82	768				

04086200 EAST BRANCH MILWAUKEE RIVER AT NEW FANE, WIS.

LOCATION.--LAT 43°33'01", LONG 88°11'18", IN CENTER OF SEC.35, T.13 N., R.19 E., FOND DU LAC COUNTY, ON RIGHT BANK 150 FT (46 M) DOWNSTREAM OF BRIDGE ON COUNTY TRUNK HIGHWAY S, 0.4 MI (0.6 KM) SOUTHWEST OF NEW FANE, 0.5 MI (0.8 KM) DOWNSTREAM FROM RECREATION DAM (FORMERLY A MILL DAM), AND 6.0 MI (9.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--57.2 MI^2 (148 KM^2).

PERIOD OF RECORD.--APRIL 1968 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. TEMPORARY NONRECORDING GAGE 0.4 MI (0.6 KM) UPSTREAM AT DIFFERENT DATUM JAN. 21, 1972, TO AUG. 2, 1973. ALTITUDE OF GAGE IS 950 FT (290 M) FROM TOPOGRAPHIC MAP. PRIOR TO JAN. 21, 1972, WATER-STAGE RECORDER AT SITE 200 FT (61 M) UPSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--6 YEARS, 29.6 FT^3/S (0.838 M^3/S), 7.03 IN/YR (179 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, ABOUT 210 FT^3/S (5.95 M^3/S) MAR. 5; MAXIMUM GAGE HEIGHT, 5.93 FT (1.807 M), MAR. 5 (BACKWATER FROM ICE); MINIMUM DAILY DISCHARGE, 10 FT^3/S (0.28 M^3/S) JULY 21, SEPT. 5, 7. PERIOD OF RECORD: MAXIMUM DISCHARGE, ABOUT 210 FT^3/S (5.95 M^3/S) MAR. 5, 1974; MAXIMUM GAGE HEIGHT, 5.93 FT (1.807 M) MAR. 5, 1974 (BACKWATER FROM ICE); MINIMUM DAILY, 0.76 FT^3/S (0.022 M^3/S) SEPT. 16, 1971.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE POOR.

REVISIONS (WATER YEARS).--WRD WIS. 1971(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (SHIFTING-CONTROL METHOD USED OCT. 1 TO DEC. 10, JUNE 10-13, AUG. 30 TO SEPT. 30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-24, DEC. 29 TO MAR. 5.)

3.5	8	4.5	102
3.7	15	5.0	203
4.0	38		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	39	24	33	42	33	71	48	39	20	13	13
2	23	37	23	29	41	40	76	44	39	24	13	12
3	26	33	23	25	40	100	81	41	40	26	13	11
4	27	30	28	22	38	150	93	39	45	24	13	11
5	26	25	53	21	36	190	103	36	42	25	12	10
6	22	26	55	20	34	200	106	36	40	22	12	11
7	20	24	49	19	33	193	106	35	40	19	13	10
8	21	23	43	19	32	193	101	37	40	18	13	11
9	20	20	39	18	31	188	93	44	72	17	13	11
10	21	19	35	18	31	174	86	41	96	25	12	11
11	34	19	32	18	31	159	81	46	104	23	13	11
12	35	18	30	18	30	144	80	52	103	19	15	12
13	27	19	27	18	30	128	80	51	100	17	14	13
14	22	19	24	18	30	113	106	66	94	16	13	12
15	20	24	23	18	30	100	128	76	87	15	13	12
16	18	29	22	19	30	93	133	82	83	14	15	11
17	17	26	22	19	30	93	131	95	80	13	20	11
18	15	26	21	20	30	86	124	96	78	12	17	11
19	15	26	21	21	30	80	116	91	75	12	15	11
20	14	25	20	26	30	76	105	85	69	11	14	12
21	13	27	20	31	30	71	97	78	62	10	13	12
22	13	28	20	36	29	66	91	70	55	12	12	12
23	13	27	20	40	29	64	86	64	48	13	12	11
24	13	28	26	42	29	57	81	57	42	12	12	12
25	13	30	44	43	29	59	75	51	37	18	11	13
26	12	28	64	44	29	50	69	47	33	26	12	13
27	14	27	66	45	29	45	62	43	29	20	19	13
28	32	30	62	46	30	43	56	43	27	18	16	13
29	42	29	54	46	------	42	53	44	24	17	13	17
30	37	26	46	44	------	51	51	43	22	15	12	17
31	34	------	39	43	------	59	------	41	------	14	13	------
TOTAL	679	787	1,075	879	893	3,140	2,721	1,722	1,745	547	421	360
MEAN	21.9	26.2	34.7	28.4	31.9	101	90.7	55.5	58.2	17.6	13.6	12.0
MAX	42	39	66	46	42	200	133	96	104	26	20	17
MIN	12	18	20	18	29	33	51	35	22	10	11	10
CFSM	.38	.46	.61	.50	.56	1.77	1.59	.97	1.02	.31	.24	.21
IN.	.44	.51	.70	.57	.58	2.04	1.77	1.12	1.13	.36	.27	.23

CAL YR 1973 TOTAL 15,967 MEAN 43.7 MAX 192 MIN 11 CFSM .76 IN 10.38
WTR YR 1974 TOTAL 14,969 MEAN 41.0 MAX 200 MIN 10 CFSM .72 IN 9.74

04086340 NORTH BRANCH MILWAUKEE RIVER NEAR FILLMORE, WIS.

LOCATION.--LAT 43°28'58", LONG 88°03'39", IN NW 1/4 SEC.25, T.12 N., R.20 E., WASHINGTON COUNTY, ON RIGHT BANK DOWNSTREAM FROM COUNTY TRUNK HIGHWAY M, 1.1 MI (1.8 KM) SOUTH OF FILLMORE AND 2.0 MI (3.2 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--153 MI^2 (396 KM^2).

PERIOD OF RECORD.--APRIL 1968 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 800 FT (240 M) FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--6 YEARS, 95.6 FT^3/S (2.707 M^3/S), 8.49 IN/YR (216 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1600 FT^3/S (45.3 M^3/S) MAR. 5, GAGE HEIGHT, 6.15 FT (1.875 M), MAXIMUM GAGE HEIGHT, 6.43 FT (1.960 M) MAR. 4, (BACKWATER FROM ICE); MINIMUM DISCHARGE, 29 FT^3/S (0.82 M^3/S) SEPT. 21, 22, GAGE HEIGHT, 0.97 FT (0.296 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1600 FT^3/S (45.3 M^3/S) MAR. 5, 1974, GAGE HEIGHT, 6.15 FT (1.875 M); MAXIMUM GAGE HEIGHT, 6.43 FT (1.96 M) MAR. 4, 1974, (BACKWATER FROM ICE); MINIMUM DISCHARGE, 3.0 FT^3/S (0.085 M^3/S) AUG. 17, 18, 1970, GAGE HEIGHT, 0.19 FT (0.058 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WRD WIS. 1971(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11-26, JAN. 1 TO MAR. 5, MAR. 23-25.)

OCT. 1 TO MAR. 2				MAR. 3 TO SEPT. 30			
1.5	54	4.0	276	1.0	30	5.0	470
2.0	83	5.0	470	2.0	83	5.4	620
3.0	159			3.0	159	5.7	890
				4.0	276	6.0	1,320

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	241	93	120	270	110	312	134	81	47	46	55
2	65	229	89	96	240	120	321	127	76	54	44	49
3	69	205	86	80	200	300	310	116	75	61	46	46
4	81	177	101	76	180	1,100	362	111	83	57	45	43
5	93	135	201	70	160	1,200	369	103	83	60	43	40
6	88	111	240	68	140	968	339	101	79	56	42	39
7	84	102	248	66	130	791	306	101	78	50	41	38
8	81	93	230	66	130	771	267	102	81	46	40	37
9	76	84	202	66	120	857	232	120	144	44	38	36
10	76	83	163	66	120	735	210	128	255	64	37	34
11	158	78	140	66	120	546	194	138	304	101	41	34
12	181	77	120	66	120	458	206	155	320	119	54	34
13	164	78	94	68	110	386	220	152	301	134	74	41
14	151	79	84	68	110	323	369	192	251	124	59	43
15	133	89	80	70	110	283	585	222	210	95	46	39
16	112	101	78	72	110	270	527	238	180	77	59	37
17	94	100	76	74	110	281	425	425	167	68	96	36
18	81	98	74	76	110	278	357	400	163	60	78	34
19	74	96	74	78	110	269	309	342	160	55	61	33
20	69	93	74	82	110	248	266	289	153	47	53	33
21	66	97	74	88	110	225	236	229	128	44	48	31
22	64	100	74	100	100	204	260	196	115	62	44	31
23	62	100	74	110	98	160	240	168	105	66	44	32
24	60	101	74	130	96	140	216	139	90	52	42	32
25	59	103	100	150	96	140	200	123	78	80	40	35
26	58	100	170	170	98	146	187	112	73	111	38	36
27	62	97	270	210	100	150	171	101	65	90	57	35
28	120	102	289	260	100	150	154	96	59	75	71	35
29	191	101	276	300	------	155	152	95	54	67	57	43
30	215	99	228	300	------	192	147	92	50	57	51	46
31	227	------	163	280	------	257	------	88	------	50	55	------
TOTAL	3,177	3,349	4,339	3,592	3,608	12,213	8,449	5,135	4,061	2,173	1,590	1,137
MEAN	102	112	140	116	129	394	282	166	135	70.1	51.3	37.9
MAX	227	241	289	300	270	1,200	585	425	320	134	96	55
MIN	58	77	74	66	96	110	147	88	50	44	37	31
CFSM	.67	.73	.92	.76	.84	2.58	1.84	1.09	.88	.46	.34	.25
IN.	.77	.81	1.05	.87	.88	2.97	2.05	1.25	.99	.53	.39	.28

CAL YR 1973 TOTAL 53,093 MEAN 145 MAX 865 MIN 26 CFSM .95 IN 12.91
WTR YR 1974 TOTAL 52,823 MEAN 145 MAX 1,200 MIN 31 CFSM .95 IN 12.84

PEAK DISCHARGE (BASE, 300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-29	--	--	A 310	4-15	1200	5.35	595
3- 5	2200	6.15	1,600	5-17	1500	4.99	468
4- 4	2100	4.60	382	6-12	1200	4.27	323

A ABOUT

04086360 MILWAUKEE RIVER AT WAUBEKA, WIS.

LOCATION.--LAT 43°28'22", LONG 87°59'23", IN SE 1/4 SEC.28, T.12 N., R.21 E., OZAUKEE COUNTY, ON RIGHT BANK 100 FT (30 M) DOWNSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY I, 800 FT (240 M) DOWNSTREAM FROM RECREATION POND DAM AT WAUBEKA, AND 2.4 MI (3.9 KM) DOWNSTREAM FROM NORTH BRANCH MILWAUKEE RIVER.

DRAINAGE AREA.--428 MI^2 (1,110 KM^2).

PERIOD OF RECORD.--MARCH 1968 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 770 FT (234 M), FROM TOPOGRAPHIC MAP. PRIOR TO AUG. 1, 1968, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--6 YEARS, 297 FT^3/S (8.411 M^3/S), 9.42 IN/YR (239 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,210 FT^3/S (90.9 M^3/S) MAR. 5, GAGE HEIGHT, 8.01 FT (2.441 M); MAXIMUM GAGE HEIGHT, 9.61 FT (2.929 M) MAR. 4 (BACKWATER FROM ICE); MINIMUM DISCHARGE, 84 FT^3/S (2.38 M^3/S) SEPT. 22, 23, GAGE HEIGHT, 2.50 FT (0.762 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,210 FT^3/S (90.9 M^3/S) MAR. 5, 1974, GAGE HEIGHT, 8.01 FT (2.441 M); MAXIMUM GAGE HEIGHT, 9.61 FT (2.929 M) (BACKWATER FROM ICE); MINIMUM DISCHARGE, 19 FT^3/S (0.54 M^3/S) AUG. 18, 1970, GAGE HEIGHT, 1.90 FT (0.579 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11-26, DEC. 31 TO MAR. 5, MAR. 23-25.)

OCT. 1 TO MAR. 3				MAR. 4 TO SEPT. 30			
2.7	129	4.0	489	*2.4	78	5.0	970
3.0	191	5.0	894	2.9	170	6.0	1,580
3.5	315	6.0	1,380	3.5	318	7.0	2,320
				4.0	510	9.0	4,240

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	532	239	270	580	340	919	468	261	172	140	170
2	170	485	227	230	520	380	990	432	239	151	127	150
3	175	428	220	200	470	1,000	948	395	234	172	133	140
4	209	375	276	200	440	3,000	1,170	379	233	183	129	140
5	253	308	595	170	400	3,200	1,240	349	244	162	121	130
6	226	263	628	170	370	2,810	1,170	329	248	150	118	120
7	211	241	596	160	350	2,590	1,050	208	246	140	116	120
8	201	228	523	160	340	2,550	961	298	246	140	110	120
9	195	204	472	160	330	2,450	769	354	502	150	108	110
10	212	186	371	160	330	2,300	733	361	940	200	107	110
11	521	193	320	160	330	1,990	670	411	1,050	260	114	110
12	492	192	270	160	320	1,650	730	447	995	340	141	110
13	405	194	240	160	320	1,390	768	443	907	370	187	110
14	334	197	230	160	320	1,080	1,540	548	870	330	168	118
15	286	225	220	170	310	994	2,020	613	799	290	137	108
16	251	254	220	170	310	949	2,010	891	702	230	145	100
17	223	250	220	180	310	946	1,620	1,990	582	200	244	96
18	200	248	220	190	300	914	1,360	1,390	478	180	225	91
19	197	242	210	190	300	877	1,150	1,140	617	170	183	91
20	172	238	210	200	300	805	974	914	574	150	157	91
21	167	249	210	230	300	678	889	757	474	140	139	88
22	160	257	200	250	290	665	908	663	417	170	129	84
23	157	250	200	280	280	540	835	536	331	200	127	86
24	154	252	200	310	290	460	750	476	309	170	121	88
25	149	256	240	360	300	440	661	424	271	220	110	90
26	145	252	400	400	300	460	610	320	240	320	103	90
27	155	248	707	530	310	463	625	318	213	270	170	88
28	297	253	705	640	320	464	560	300	198	230	200	88
29	526	256	647	680	------	468	500	296	183	200	180	120
30	495	249	525	660	------	583	484	290	168	170	170	118
31	488	------	340	640	------	790	------	278	------	150	170	------
TOTAL	7,996	8,005	10,881	8,600	9,640	38,226	29,614	17,018	13,771	6,380	4,529	3,275
MEAN	258	267	351	277	344	1,233	987	549	459	206	146	109
MAX	526	532	707	680	580	3,200	2,020	1,990	1,050	370	244	170
MIN	145	186	200	160	280	340	484	208	168	140	103	84
CFSM	.60	.62	.82	.65	.80	2.88	2.31	1.28	1.07	.48	.34	.25
IN.	.69	.70	.95	.75	.84	3.32	2.57	1.48	1.20	.55	.39	.28

CAL YR 1973 TOTAL 170,288 MEAN 467 MAX 2,100 MIN 72 CFSM 1.09 IN 14.80
WTR YR 1974 TOTAL 157,935 MEAN 433 MAX 3,200 MIN 84 CFSM 1.01 IN 13.73

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 5	2000	8.01	3,210	5-17	1200	6.86	2,210
4- 5	0100	5.52	1,270	6-11	0200	5.17	1,060
4-16	0400	6.75	2,120				

04086500 CEDAR CREEK NEAR CEDARBURG, WIS.

LOCATION.--LAT 43°19'23", LONG 87°58'43", IN SE 1/4 SW 1/4 SEC.14, T.10 N., R.21 E., OZAUKEE COUNTY, ON LEFT BANK 40 FT (12 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 60, 1.9 MI (3.1 KM) NORTH OF CEDARBURG AND 6.6 MI (10.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--121 MI^2 (313 KM^2).

PERIOD OF RECORD.--AUGUST 1930 TO SEPTEMBER 1970, JULY 1973 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 795.33 FT (242.42 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). NONRECORDING GAGE AND CREST-STAGE GAGE AUGUST 1930 TO SEPTEMBER 1970 AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--41 YEARS, 63.6 FT^3/S (1.801 M^3/S), 7.14 IN/YR (181 MM/YR).

EXTREMES.--JULY TO SEPTEMBER 1973: MAXIMUM DISCHARGE DURING PERIOD, 100 FT^3/S (2.83 M^3/S) SEPT. 26, GAGE HEIGHT, 5.85 FT (1.783 M); MINIMUM, 20 FT^3/S (0.57 M^3/S) JULY 20, GAGE HEIGHT, 5.32 FT (1.622 M).
WATER YEAR 1974: MAXIMUM DISCHARGE, ABOUT 2,000 FT^3/S (56.6 M^3/S) MAR. 4 (BACKWATER FROM ICE); MINIMUM, 22 FT^3/S (0.62 M^3/S) SEPT. 22-24, 26-28, GAGE HEIGHT, 5.37 FT (1.637 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE OBSERVED, ABOUT 3,600 FT^3/S (102 M^3/S) MAR. 30, 1960, GAGE HEIGHT, 12.25 FT (3.734 M), FROM GRAPH BASED ON GAGE READINGS, BACKWATER FROM ICE; MINIMUM OBSERVED, 0.2 FT^3/S (0.006 M^3/S) AUG. 9-12, 1936.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1307: 1932-34(M), 1937(M), 1939(M), 1945(M), 1948-49(M). WSP 1627: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11 TO MAR. 4, MAR. 25.)

5.3	18	7.0	423
5.5	38	8.0	841
5.7	69	9.0	1,370
6.0	138	10.0	2,000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										54	34	27
2										50	30	26
3										47	29	25
4										45	28	36
5										44	27	55
6										41	24	48
7										38	23	38
8										37	25	32
9										35	41	31
10										32	35	31
11										31	30	29
12										29	26	26
13										26	25	24
14										25	26	24
15										26	25	24
16										28	24	23
17										28	22	34
18										27	22	66
19										25	22	48
20										22	22	38
21										23	22	34
22										24	21	34
23										24	20	34
24										23	26	31
25										23	27	48
26										23	27	95
27										38	28	71
28										35	28	57
29					------					29	27	54
30					------					27	25	51
31		------			------		------		------	32	27	------
TOTAL										991	818	1,194
MEAN										32.0	26.4	39.8
MAX										54	41	95
MIN										22	20	23
CFSM										.26	.22	.33
IN.										.30	.25	.37

04086500 CEDAR CREEK NEAR CEDARBURG, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	203	110	120	360	180	416	131	84	44	32	84
2	51	174	100	100	280	200	382	116	77	44	30	62
3	57	136	98	92	240	900	319	107	75	45	35	54
4	59	116	96	84	220	1,900	362	100	71	46	34	49
5	75	102	340	80	200	1,590	427	95	67	54	33	45
6	69	90	386	76	180	1,030	354	92	64	46	31	41
7	64	84	298	72	170	764	261	86	64	44	30	38
8	62	82	203	74	160	646	200	97	69	39	28	38
9	60	69	155	74	150	629	174	128	174	37	26	36
10	59	80	124	74	140	584	160	112	376	52	25	35
11	215	67	110	74	140	461	148	164	358	100	30	34
12	258	67	110	74	130	358	169	172	256	82	39	31
13	203	69	120	74	130	286	200	145	150	67	57	30
14	198	69	110	76	130	232	663	164	112	52	49	31
15	140	95	100	76	130	210	1,080	152	107	41	42	31
16	104	121	100	78	130	225	850	520	104	37	42	28
17	84	104	100	80	130	275	605	1,180	97	35	124	27
18	73	100	98	84	130	269	379	940	95	34	90	26
19	67	97	96	90	140	235	281	700	181	32	60	25
20	62	95	92	100	150	200	220	420	286	30	48	24
21	57	100	88	170	160	179	196	280	251	28	42	23
22	55	109	86	220	150	162	186	225	150	38	38	23
23	54	109	84	200	150	140	172	193	112	46	45	22
24	54	116	84	190	140	136	157	157	88	41	45	23
25	51	120	180	190	140	130	145	136	77	52	39	23
26	48	120	300	200	150	124	133	121	71	104	38	23
27	49	110	380	400	160	121	126	109	62	73	69	23
28	100	110	400	500	160	126	119	104	57	55	104	23
29	228	120	320	540	------	155	143	102	52	45	80	34
30	235	110	240	480	------	232	152	97	48	39	62	44
31	184	------	180	440	------	372	------	90	------	36	80	------
TOTAL	3,124	3,144	5,288	5,182	4,650	13,053	9,179	7,235	3,835	1,518	1,527	1,030
MEAN	101	105	171	167	166	421	306	233	128	49.0	49.3	34.3
MAX	258	203	400	540	360	1,900	1,080	1,180	376	104	124	84
MIN	48	67	84	72	130	121	119	86	48	28	25	22
CFSM	.83	.87	1.41	1.38	1.37	3.48	2.53	1.93	1.06	.41	.41	.28
IN.	.96	.97	1.63	1.59	1.43	4.01	2.82	2.22	1.18	.47	.47	.32

WTR YR 1974 TOTAL 58,765 MEAN 161 MAX 1,900 MIN 22 CFSM 1.33 IN 18.07

04087000 MILWAUKEE RIVER AT MILWAUKEE, WIS.

LOCATION.--LAT 43°06'00", LONG 87°54'32", IN NE 1/4 SEC.5, T.7 N., R.22 E., MILWAUKEE COUNTY, ON LEFT BANK NEAR NORTHEAST LIMITS OF MILWAUKEE IN ESTABROOK PARK, 2,000 FT (600 M) DOWNSTREAM FROM PORT WASHINGTON ROAD BRIDGE AND 6.6 MI (10.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--686 MI^2 (1,777 KM^2).

PERIOD OF RECORD.--APRIL 1914 TO CURRENT YEAR. PUBLISHED AS "NEAR MILWAUKEE" PRIOR TO 1936.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 607.23 FT (185.084 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). PRIOR TO APR. 6, 1929, NONRECORDING GAGE NEAR PRESENT SITE AT DIFFERENT DATUM. APR. 6, 1929, TO JAN. 8, 1934, NONRECORDING GAGE AT BRIDGE 0.5 MI (0.8 KM) UPSTREAM AT DIFFERENT DATUM.

AVERAGE DISCHARGE.--60 YEARS, 395 FT^3/S (11.2 M^3/S), 7.82 IN/YR (199 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 6,190 FT^3/S (175 M^3/S) MAR. 4, GAGE HEIGHT, 6.61 FT (2.015 M); MINIMUM, 72 FT^3/S (2.04 M^3/S) JULY 10, GAGE HEIGHT, 1.90 FT (0.579 M), RESULT OF REGULATION.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 15,100 FT^3/S (428 M^3/S) MAR. 20, 1918, AUG. 6, 1924, GAGE HEIGHT, 9.00 FT (2.743 M) DATUM THEN IN USE, FROM FLOODMARK FOR 1918, FROM GRAPH BASED ON GAGE READING FOR 1924; NO FLOW SEPT. 8, 1943.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. OCCASIONAL REGULATION CAUSED BY RECREATION DAM APPROXIMATELY 600 FT (180 M) UPSTREAM. RECORDS OF CHEMICAL, BIOLOGICAL ANALYSES AND SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

REVISIONS (WATER YEARS).--WSP 564: 1918(M). WSP 924: 1940. WSP 1207: 1936(M). WSP 1337: 1915-17(M), 1918, 1919-21(M), 1922, 1923(M), 1924, 1925-33(M). WSP 1557: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE JAN. 17-24, FEB. 4-28.)

2.1	120	4.0	1,750
2.2	165	5.0	3,180
2.5	325	6.0	4,900
3.0	700	7.0	6,920

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	866	420	480	1,540	616	1,830	781	475	301	256	314
2	289	866	400	400	1,170	800	1,760	701	475	338	329	294
3	256	736	380	350	847	2,370	1,680	675	439	313	248	263
4	319	632	450	310	700	5,140	1,800	632	432	364	221	248
5	326	551	800	300	580	5,850	1,940	616	295	364	219	237
6	364	475	900	290	500	5,650	1,860	591	338	357	234	231
7	357	418	1,000	290	480	4,570	1,680	567	512	319	218	218
8	313	384	920	280	470	4,040	1,470	583	432	301	208	208
9	307	357	800	280	460	3,950	1,290	632	1,030	301	203	209
10	345	307	640	270	460	3,580	1,090	675	1,380	658	209	202
11	468	307	540	270	450	3,140	1,060	1,060	1,610	418	379	197
12	895	301	460	270	450	2,610	1,100	945	1,510	567	289	201
13	857	301	420	270	450	2,140	1,140	925	1,290	453	323	194
14	701	351	390	270	450	1,770	3,240	925	1,120	432	327	196
15	599	475	380	270	440	1,530	3,610	1,040	1,060	384	289	199
16	475	432	380	270	430	1,610	3,430	1,530	996	338	356	189
17	404	460	370	280	430	1,600	2,960	3,220	876	272	315	176
18	357	418	370	280	430	1,540	2,350	3,740	754	271	445	172
19	319	404	370	290	430	1,440	1,890	2,670	1,430	265	375	166
20	307	391	370	310	420	1,320	1,580	2,000	1,150	246	303	165
21	266	418	360	350	420	1,180	1,380	1,800	1,010	225	260	160
22	261	425	360	390	410	1,080	1,270	1,930	791	339	254	155
23	520	418	360	450	400	935	1,250	1,200	624	290	244	151
24	256	583	360	500	400	701	1,120	905	528	303	230	153
25	240	460	480	599	420	641	1,020	763	482	375	213	158
26	235	460	760	1,100	430	772	905	666	439	410	221	163
27	319	432	1,100	2,200	450	718	857	551	397	487	341	165
28	482	430	1,200	1,610	500	935	819	536	364	406	359	244
29	876	440	1,000	1,370	------	866	935	528	338	340	408	368
30	965	430	800	1,300	------	1,500	847	512	338	297	354	225
31	935	------	600	1,450	------	1,770	------	490	------	274	433	------
TOTAL	13,890	13,928	18,140	17,349	15,017	66,364	49,163	34,389	22,915	11,008	9,063	6,221
MEAN	448	464	585	560	536	2,141	1,639	1,109	764	355	292	207
MAX	965	866	1,200	2,200	1,540	5,850	3,610	3,740	1,610	658	445	368
MIN	235	301	360	270	400	616	819	490	295	225	203	151
CFSM	.65	.68	.85	.82	.78	3.12	2.39	1.62	1.11	.52	.43	.30
IN.	.75	.76	.98	.94	.81	3.60	2.67	1.86	1.24	.60	.49	.34

CAL YR 1973 TOTAL 293,001 MEAN 803 MAX 7,030 MIN 138 CFSM 1.17 IN 15.89
WTR YR 1974 TOTAL 277,447 MEAN 760 MAX 5,850 MIN 151 CFSM 1.11 IN 15.05

PEAK DISCHARGE (BASE, 2,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	0100	4.93	3,130	5-18	0300	5.44	3,990
3- 4	2245	6.61	6,190	5-21	2315	4.64	2,710
4-14	1015	5.31	3,770	7-10	1145	4.40	2,350

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO JAN. 16

04087120 MENOMONEE RIVER AT WAUWATOSA, WIS.

LOCATION.--LAT 43°02'44", LONG 87°59'59", IN NW 1/4 SEC.27, T.7 N., R.21 E., MILWAUKEE COUNTY, NEAR LEFT BANK ON DOWNSTREAM SIDE OF 70TH STREET BRIDGE IN WAUWATOSA, 800 FT (200 M) DOWNSTREAM FROM HONEY CREEK, AND 6.2 MI (10.0 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--123 MI^2 (319 KM^2).

PERIOD OF RECORD.--OCTOBER 1961 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE AND CREST-STAGE GAGE. DATUM OF GAGE IS 630.86 FT (192.286 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--13 YEARS, 86.1 FT^3/S (2.438 M^3/S), 9.51 IN/YR (242 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,160 FT^3/S (61.2 M^3/S) MAR. 3, GAGE HEIGHT, 5.73 FT (1.747 M); MINIMUM DAILY, 11 FT^3/S (0.31 M^3/S) SEPT. 22.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 13,500 FT^3/S (382 M^3/S) APR. 21, 1973, GAGE HEIGHT, 13.92 FT (4.243 M) FROM RATING CURVE EXTENDED ABOVE 6,000 FT^3/S (170 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; MINIMUM DAILY, 2.8 FT^3/S (0.079 M^3/S) JAN. 18, 1964.

REMARKS.--RECORDS FAIR EXCEPT THOSE FOR MARCH TO SEPTEMBER, WHICH ARE POOR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 14-23, JAN. 5-15, FEB. 1-10, 15, 24, 25, MAR. 21-23.)

1.0	7.2	2.0	165
1.1	12	2.5	324
1.3	28	3.0	520
1.5	53	4.0	1,010
1.7	89	6.0	2,380

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	105	56	68	260	223	420	83	67	37	19	20
2	91	91	45	60	200	397	314	83	96	45	22	15
3	46	64	55	52	120	1,640	217	77	67	24	21	16
4	75	50	740	46	90	1,790	314	69	61	138	14	15
5	42	49	560	42	82	1,240	249	115	61	39	17	14
6	36	46	303	39	78	780	120	67	96	31	15	18
7	47	45	179	37	74	481	100	56	150	25	14	18
8	36	42	146	35	72	614	84	80	250	24	17	18
9	35	39	120	34	70	511	80	103	393	45	20	21
10	32	40	107	33	68	386	78	87	208	303	17	20
11	117	36	94	33	75	296	100	524	154	47	39	20
12	63	39	83	33	83	229	120	202	96	47	27	30
13	87	56	73	33	69	190	200	185	71	37	47	20
14	59	49	66	33	61	154	680	157	46	25	18	12
15	49	141	62	40	60	146	450	157	52	24	14	12
16	39	75	60	81	64	331	250	576	59	25	563	14
17	38	61	60	49	66	255	180	405	67	23	69	13
18	38	53	58	45	77	205	160	279	52	21	30	13
19	35	50	56	45	125	179	220	214	353	20	18	16
20	34	49	54	375	120	146	154	162	217	20	14	14
21	31	79	54	279	193	130	140	335	150	17	17	14
22	29	59	52	208	152	110	120	157	107	141	71	11
23	34	52	52	176	83	80	100	146	75	89	27	17
24	36	236	53	154	84	63	94	107	56	26	21	13
25	36	98	424	146	90	69	94	96	53	165	14	15
26	32	77	390	610	96	77	85	83	50	360	20	14
27	122	71	331	1,430	149	89	81	69	49	34	55	17
28	229	96	269	583	360	386	73	50	49	19	23	50
29	239	69	193	272	------	262	223	75	37	19	16	35
30	105	61	141	432	------	682	117	73	50	20	15	20
31	220	------	90	420	------	610	------	69	------	19	133	------
TOTAL	2,148	2,078	5,026	5,923	3,121	12,751	5,617	4,941	3,292	1,909	1,427	545
MEAN	69.3	69.3	162	191	111	411	187	159	110	61.6	46.0	18.2
MAX	239	236	740	1,430	360	1,790	680	576	393	360	563	50
MIN	29	36	45	33	60	63	73	50	37	17	14	11
CFSM	.56	.56	1.32	1.55	.90	3.34	1.52	1.29	.89	.50	.37	.15
IN.	.65	.63	1.52	1.79	.94	3.86	1.70	1.49	1.00	.58	.43	.16

CAL YR 1973 TOTAL 58,996 MEAN 162 MAX 6,380 MIN 17 CFSM 1.32 IN 17.84
WTR YR 1974 TOTAL 48,778 MEAN 134 MAX 1,790 MIN 11 CFSM 1.09 IN 14.75

PEAK DISCHARGE (BASE, 700 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 4	--	5.04	1,670	3-30	--	3.65	825
1-26	--	5.65	A 2,100	5-16	--	4.44	1,280
3- 3	--	5.73	2,160				

A MAXIMUM OBSERVED

04087204 OAK CREEK AT SOUTH MILWAUKEE, WIS.

LOCATION.--LAT 42°55'30", LONG 87°52'12", IN NW 1/4 SEC.2, T.5 N., R.22 E., MILWAUKEE COUNTY, ON LEFT BANK 25 FT (8.0 M) DOWNSTREAM FROM 15TH AVENUE BRIDGE IN SOUTH MILWAUKEE AND 2.8 MI (4.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--25.0 MI^2 (64.8 KM^2).

PERIOD OF RECORD.--OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND CREST-STAGE INDICATOR. ALTITUDE OF GAGE IS 630 FT (192 M), FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--11 YEARS, 22.3 FT^3/S (0.632 M^3/S) 12.11 IN/YR (308 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 839 FT^3/S (23.8 M^3/S) MAR. 3, GAGE HEIGHT, 7.33 FT (2.234 M); MINIMUM, 1.3 FT^3/S (0.037 M^3/S) OCT. 27, GAGE HEIGHT, 2.32 FT (0.707 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 916 FT^3/S (25.9 M^3/S) SEPT. 18, 1972, GAGE HEIGHT, 8.23 FT (2.508 M); MINIMUM, 0.40 FT^3/S (0.011 M^3/S) JAN. 3, 1964, GAGE HEIGHT, 2.33 FT (0.710 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, PERIODS OF BACKWATER FROM VEGETATION AND NO GAGE-HEIGHT RECORD, WHICH ARE FAIR. LOW FLOWS MAY OCCASIONALLY BE AFFECTED BY ACTIVITY OF GRAVEL PIT UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 10-23, JAN. 6-11, 16-18.)

2.3	1.0	3.0	37
2.4	2.6	4.0	143
2.5	6.8	5.0	303
2.7	17	7.0	748

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	7.3	14	130	70	202	20	12	6.8	2.4	6.0
2	30	8.9	6.4	11	60	110	80	16	12	8.4	2.8	3.2
3	15	5.2	6.4	9.4	45	333	49	14	11	12	3.3	2.4
4	11	4.0	44	7.8	34	745	82	12	10	24	4.5	2.3
5	10	3.2	120	6.8	27	510	51	12	10	14	3.8	2.1
6	5.2	2.6	88	6.2	22	265	31	12	19	7.8	3.3	1.9
7	3.6	2.6	40	5.8	19	153	25	10	18	6.8	2.8	2.3
8	2.8	2.6	27	5.4	18	197	21	19	39	6.4	2.6	1.9
9	2.4	2.6	21	5.0	17	211	19	20	368	6.4	2.8	1.9
10	2.8	2.3	15	5.0	16	107	18	13	112	39	2.8	1.9
11	2.8	2.3	12	5.0	15	61	18	24	43	30	14	2.1
12	2.8	2.3	11	4.8	14	43	27	27	29	10	17	1.9
13	7.3	2.3	10	4.8	13	31	31	25	21	7.9	8.0	1.9
14	7.3	5.6	9.4	4.8	13	27	541	35	19	6.7	4.6	2.6
15	4.0	22	9.0	4.8	12	26	303	47	19	5.7	3.7	2.3
16	3.2	18	8.6	5.0	12	47	87	236	16	5.3	11	1.7
17	2.4	8.9	8.2	5.6	12	71	43	518	15	5.2	16	1.7
18	2.1	6.4	8.0	6.2	14	41	38	182	16	5.2	6.1	2.1
19	1.9	5.2	7.8	7.6	23	40	54	83	23	6.1	3.6	1.9
20	1.7	4.8	7.4	237	40	28	30	43	16	8.9	2.8	1.7
21	1.7	6.0	7.2	339	80	26	25	243	15	6.1	2.6	1.7
22	1.5	5.6	7.2	121	150	24	22	482	13	5.6	2.8	1.5
23	1.7	4.8	7.2	49	100	23	19	124	11	5.5	2.6	1.5
24	1.9	31	8.9	36	74	18	16	46	9.9	4.3	2.6	2.1
25	1.9	22	90	30	54	16	16	28	9.4	9.5	2.6	2.1
26	1.9	12	231	170	43	16	14	22	8.9	11	2.5	1.9
27	5.6	9.9	147	540	32	17	14	18	8.4	5.0	4.0	1.9
28	16	19	74	230	40	63	14	17	8.4	3.3	10	3.2
29	26	16	38	110	------	106	59	17	7.3	2.8	5.2	4.4
30	14	9.9	25	150	------	429	28	14	6.8	2.5	3.6	3.2
31	13	------	21	260	------	418	------	13	------	2.6	7.8	------
TOTAL	215.5	265.0	1,123.0	2,397.0	1,129	4,272	1,977	2,392	926.1	280.8	164.2	69.3
MEAN	6.95	8.83	36.2	77.3	40.3	138	65.9	77.2	30.9	9.06	5.30	2.31
MAX	30	31	231	540	150	745	541	518	368	39	17	6.0
MIN	1.5	2.3	6.4	4.8	12	16	14	10	6.8	2.5	2.4	1.5
CFSM	.28	.35	1.45	3.09	1.61	5.52	2.64	3.09	1.24	.36	.21	.09
IN.	.32	.39	1.67	3.57	1.68	6.36	2.94	3.56	1.38	.42	.24	.10

CAL YR 1973 TOTAL 11,785.66 MEAN 32.3 MAX 639 MIN .84 CFSM 1.29 IN 17.54
WTR YR 1974 TOTAL 15,210.90 MEAN 41.7 MAX 745 MIN 1.5 CFSM 1.67 IN 22.63

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	0100	5.07	316	3-30	1345	6.19	548
1-21	0130	5.77	455	4-14	0930	6.84	706
1-27	--	--	A 700	5-17	0015	6.33	581
3- 3	1900	7.33	839	5-21	2015	6.36	588
3- 8	1900	5.20	341	6- 9	0715	6.02	513

NOTE.--NO GAGE-HEIGHT RECORD JAN. 27 TO MAR. 1.

A ABOUT

04087220 ROOT RIVER NEAR FRANKLIN, WIS.

LOCATION.--LAT 42°52'25", LONG 87°59'45", IN SE 1/4 SEC.22, T.5 N., R.21 E., MILWAUKEE COUNTY, ON RIGHT BANK 400 FT (120 M) UPSTREAM FROM STATE HIGHWAY 100, 2.1 MI (3.4 KM) UPSTREAM FROM ROOT RIVER CANAL, 2.4 MI (3.9 KM) SOUTHEAST OF FRANKLIN, 5.5 MI (8.8 KM) SOUTHEAST OF HALES CORNERS, AND ABOUT 24 MI (39 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--49.3 MI^2 (127.7 KM^2).

PERIOD OF RECORD.--OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 674.5 FT (205.6 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--11 YEARS, 46.5 FT^3/S (1.317 M^3/S), 12.81 IN/YR (325 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,680 FT^3/S (47.6 M^3/S) JAN. 27, GAGE HEIGHT, 7.86 FT (2.396 M); MINIMUM, 2.8 FT^3/S (0.079 M^3/S) SEPT. 21, 23, GAGE HEIGHT, 1.67 FT (0.509 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,700 FT^3/S (105 M^3/S) APR. 21, 1973, GAGE HEIGHT, 9.31 FT (2.838 M); MINIMUM, 0.38 FT^3/S (0.011 M^3/S) AUG. 10, 1971, GAGE HEIGHT, 1.45 FT (0.442 M).
FLOOD OF MAR. 30, 1960, REACHED A STAGE OF 9.57 FT (2.917 M); DISCHARGE, 5,130 FT^3/S (145 M^3/S), FROM RATING CURVE EXTENDED ABOVE 2,000 FT^3/S (56.6 M^3/S) ON BASIS OF CONTRACTED-OPENING MEASUREMENT OF PEAK FLOW.

REMARKS.--RECORDS FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED FEB. 25 TO MAR. 3; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-23, DEC. 31 TO JAN. 18, FEB. 2-20.)

1.6	2.1	2.1	21	5.0	246
1.7	3.9	2.5	53	6.0	436
1.8	6.4	3.0	93	7.0	880
1.9	9.8	4.0	155	8.0	1,830

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	27	26	44	287	134	249	48	25	9.6	4.9	7.1
2	65	16	25	36	220	202	134	43	23	11	5.2	4.9
3	31	12	24	31	150	1,150	95	38	21	14	16	5.2
4	37	9.2	104	27	90	1,280	124	35	20	17	9.1	5.2
5	36	8.4	543	25	70	796	109	34	33	16	6.7	4.2
6	22	7.8	187	23	58	323	70	33	44	13	5.4	3.9
7	19	7.4	90	21	50	198	58	40	48	9.6	5.2	4.4
8	18	7.2	56	19	42	204	48	52	45	8.0	5.4	4.2
9	16	6.0	40	17	37	285	45	52	262	7.4	4.7	4.7
10	15	5.6	34	16	34	202	43	42	307	22	4.7	4.4
11	13	5.8	29	15	31	123	42	229	100	50	13	3.9
12	17	6.6	27	15	29	95	60	418	51	47	23	4.4
13	21	7.2	24	14	28	69	67	103	45	25	10	4.9
14	22	15	23	14	26	57	985	102	40	16	6.7	5.2
15	17	44	21	13	26	53	772	114	34	9.0	5.7	4.2
16	14	38	20	13	25	98	182	340	30	7.4	6.4	3.9
17	12	21	19	13	26	137	110	808	35	5.7	30	4.7
18	11	18	18	14	26	92	88	214	42	5.2	9.5	3.7
19	10	17	18	25	27	89	127	130	50	5.9	6.4	4.4
20	9.6	18	17	304	33	66	77	86	42	9.5	5.9	4.2
21	9.0	21	17	1,040	64	60	67	158	36	6.7	5.7	3.0
22	9.0	22	17	520	211	53	62	447	32	5.7	4.9	3.4
23	9.4	18	17	219	259	53	48	187	26	5.9	4.9	3.0
24	9.4	82	18	205	206	46	43	92	20	5.7	4.2	4.2
25	9.2	73	100	150	151	47	39	57	16	9.5	4.7	4.4
26	9.2	40	300	205	112	45	36	45	14	15	4.2	4.2
27	10	37	580	1,360	81	41	33	42	13	7.4	8.4	3.7
28	14	41	250	832	65	109	32	40	12	5.7	9.8	3.9
29	16	39	110	202	------	250	136	36	11	5.2	5.2	14
30	17	30	78	143	------	605	86	33	10	6.4	4.4	9.1
31	19	------	58	307	------	724	------	29	------	5.4	9.1	------
TOTAL	569.8	700.2	2,890	5,882	2,464	7,686	4,067	4,127	1,487	386.9	249.4	144.6
MEAN	18.4	23.3	93.2	190	88.0	248	136	133	49.6	12.5	8.05	4.82
MAX	65	82	580	1,360	287	1,280	985	808	307	50	30	14
MIN	9.0	5.6	17	13	25	41	32	29	10	5.2	4.2	3.0
CFSM	.37	.47	1.89	3.85	1.79	5.03	2.76	2.70	1.01	.25	.16	.10
IN.	.43	.53	2.18	4.44	1.86	5.80	3.07	3.11	1.12	.29	.19	.11

CAL YR 1973 TOTAL 26,633.4 MEAN 73.0 MAX 2,390 MIN 5.6 CFSM 1.48 IN 20.10
WTR YR 1974 TOTAL 30,653.9 MEAN 84.0 MAX 1,360 MIN 3.0 CFSM 1.70 IN 23.13

PEAK DISCHARGE (BASE, 350 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1200	6.64	670	3-30	2100	7.06	971
12-27	--	--	A 700	4-14	1700	7.55	1,400
1-21	0900	7.42	1,210	5-12	0200	6.71	742
1-27	1100	7.86	1,680	5-17	0100	7.41	1,260
2- 1	1600	5.76	379	5-22	0900	6.23	523
3- 3	1700	7.95	1,660	6-10	0200	5.96	444

NOTE.--NO GAGE-HEIGHT RECORD OCT. 14 TO NOV. 20.

A ABOUT

04087233 ROOT RIVER CANAL NEAR FRANKLIN, WIS.

LOCATION.--LAT 42°48'55", LONG 87°59'40", IN SE 1/4 SEC.10, T.4 N., R.21 E., RACINE COUNTY, ON RIGHT BANK 10 FT (3 M) DOWNSTREAM FROM HIGHWAY BRIDGE 3.5 MI (5.6 KM) UPSTREAM FROM MOUTH, 5.5 MI (8.8 KM) SOUTHEAST OF INTERSECTION U.S. 45 AND STATE 100 IN FRANKLIN, AND 8.7 MI (14 KM) SOUTHEAST OF HALES CORNERS.

DRAINAGE AREA.--57.2 MI^2 (148.1 KM^2).

PERIOD OF RECORD.--OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 670 FT (204 M), FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--11 YEARS, 46.9 FT^3/S (1.328 M^3/S) 11.13 IN/YR (283 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,440 FT^3/S (40.8 M^3/S) MAR. 4, GAGE HEIGHT, 9.88 FT (3.011 M); MINIMUM DAILY, 1.5 FT^3/S (0.042 M^3/S) AUG. 20.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,440 FT^3/S (40.8 M^3/S) MAR. 4, 1974, GAGE HEIGHT, 9.88 FT (3.011 M); MINIMUM DAILY, 0.40 FT^3/S (0.011 M^3/S) DEC. 19, 1963, RESULT OF FREEZEUP.

REMARKS.--RECORD FAIR EXCEPT THOSE BELOW 4.0 FT^3/S (0.113 M^3/S), WHICH ARE POOR.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED OCT. 1 TO NOV. 18, DEC. 4-7, AUG. 3-20; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 13-24, JAN. 3-18.)

OCT. 1 TO NOV. 18				NOV. 19 TO SEPT. 30			
2.5	7.8	3.5	32	1.9	0.68	5.0	224
3.0	19	4.0	47	2.0	1.6	6.0	362
				2.2	6.4	7.0	542
				2.5	16	8.0	800
				3.0	43	10.0	1,500
				4.0	118		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	33	81	519	160	311	121	32	8.6	6.2	2.3
2	36	15	31	56	350	340	187	83	30	8.4	5.9	1.8
3	22	12	29	45	200	1,120	132	62	27	8.1	5.6	2.1
4	18	11	114	39	120	1,410	147	46	25	13	5.9	2.3
5	16	10	390	35	72	1,200	127	41	23	10	4.9	2.8
6	13	10	290	31	58	788	92	41	33	8.6	4.4	2.8
7	12	9.8	164	28	50	438	77	34	39	7.8	4.4	3.5
8	12	9.8	112	27	45	373	63	45	33	7.0	4.6	3.0
9	11	9.2	85	25	42	388	54	43	659	6.7	4.9	3.0
10	10	9.0	67	24	40	326	46	37	568	8.6	4.9	3.3
11	11	9.0	52	23	38	224	42	83	240	10	6.2	3.8
12	10	9.2	42	22	36	188	59	80	160	7.8	7.5	4.0
13	15	10	38	21	35	143	81	60	96	6.7	5.6	4.0
14	18	10	35	20	34	118	702	78	68	6.2	5.2	3.8
15	14	28	33	20	33	106	689	163	61	5.6	4.6	3.0
16	12	27	32	20	31	140	276	386	45	5.4	5.4	2.8
17	11	20	31	20	31	160	163	764	35	5.2	10	2.8
18	10	17	30	20	31	123	121	370	30	5.6	4.2	3.3
19	10	16	29	28	33	105	106	209	27	7.5	1.6	3.5
20	9.6	15	27	255	52	84	81	147	24	5.9	1.5	3.8
21	9.4	14	26	708	100	78	69	191	30	4.6	2.8	3.8
22	9.2	14	26	397	200	70	58	568	23	4.9	2.1	3.5
23	9.6	14	26	227	310	62	46	358	19	6.2	1.8	3.5
24	9.8	80	28	153	190	56	39	162	17	5.2	1.8	4.2
25	9.8	88	133	115	150	69	36	106	15	7.2	1.6	4.7
26	10	53	329	162	130	43	34	78	14	7.8	1.6	5.0
27	10	41	328	896	110	41	31	60	12	7.0	2.3	5.7
28	13	60	234	944	100	119	30	52	11	5.9	2.6	6.9
29	14	54	149	944	------	203	394	49	10	5.4	2.1	8.2
30	15	40	129	689	------	425	245	41	9.9	6.2	1.8	5.7
31	16	------	144	716	------	500	------	37	------	7.0	2.1	------
TOTAL	411.4	735.0	3,216	6,791	3,140	9,600	4,538	4,595	2,415.9	220.1	126.1	112.9
MEAN	13.3	24.5	104	219	112	310	151	148	80.5	7.10	4.07	3.76
MAX	36	88	390	944	519	1,410	702	764	659	13	10	8.2
MIN	9.2	9.0	26	20	31	41	30	34	9.9	4.6	1.5	1.8
CFSM	.23	.43	1.82	3.83	1.96	5.42	2.64	2.59	1.41	.12	.07	.07
IN.	.27	.48	2.09	4.42	2.04	6.24	2.95	2.99	1.57	.14	.08	.07

CAL YR 1973 TOTAL 23,539.8 MEAN 64.5 MAX 706 MIN 1.9 CFSM 1.13 IN 15.31
WTR YR 1974 TOTAL 35,901.4 MEAN 98.4 MAX 1,410 MIN 1.5 CFSM 1.72 IN 23.35

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	1100	7.88	764	4-29	1300	6.93	527
1-27	1700	8.55	965	5-17	0300	8.16	848
3- 4	1400	9.88	1,440	5-22	1500	7.53	667
3-31	0100	7.11	565	6- 9	1700	7.93	779
4-14	1900	8.37	911				

NOTE.--NO GAGE-HEIGHT RECORD FEB. 2 TO MAR. 2.

04087240 ROOT RIVER AT RACINE, WIS.

LOCATION.--LAT 42°45'05", LONG 87°49'25", IN NE 1/4 SEC.6, T.3 N., R.23 E., RACINE COUNTY, ON LEFT BANK 30 FT (9 M) DOWNSTREAM FROM STATE HIGHWAY 38 BRIDGE IN RACINE, 350 FT (110 M) DOWNSTREAM FROM HORLICK DAM, AND 5.2 MI (8.4 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--187 MI^2 (484 KM^2).

PERIOD OF RECORD.--AUGUST 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 610 FT (187 M), FROM TOPOGRAPHIC MAP. PRIOR TO FEB. 5, 1964, NONRECORDING GAGE ON BRIDGE 30 FT (9 M) UPSTREAM.

AVERAGE DISCHARGE.--11 YEARS, 156 FT^3/S (4.418 M^3/S), 11.33 IN/YR (288 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 4,500 FT^3/S (127 M^3/S) MAR. 5, GAGE HEIGHT, 8.54 FT (2.603 M); MINIMUM, 7.2 FT^3/S (0.20 M^3/S) SEPT. 27, GAGE HEIGHT, 2.08 FT (0.634 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 4500 FT^3/S (127 M^3/S) MAR. 5, 1974, GAGE HEIGHT, 8.54 FT (2.603 M); MINIMUM DAILY, 1.3 FT^3/S (0.037 M^3/S) OCT. 12, DEC. 31, 1963, JAN. 1, 2, 1964.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 10-25, DEC. 31 TO JAN. 26, FEB. 1-20, 24-27.)

2.0	4.0	3.5	351
2.1	8.0	4.0	610
2.3	20	5.0	1,250
2.5	42	7.0	2,910
2.7	83	9.0	5,010
3.0	164		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	59	103	150	880	428	1,380	560	135	31	13	9.1
2	96	88	86	130	640	634	940	320	119	30	12	14
3	122	52	78	110	400	1,720	599	235	108	28	11	12
4	76	38	170	100	270	3,560	490	188	98	28	17	10
5	64	31	560	90	180	4,010	464	158	88	28	20	9.1
6	61	29	670	84	150	2,860	384	152	100	28	16	9.7
7	37	25	724	78	140	1,640	290	141	141	28	12	9.1
8	32	25	453	72	130	1,070	239	141	167	24	10	10
9	29	23	273	70	120	977	211	185	621	23	9.1	10
10	26	20	190	66	110	958	191	167	851	21	9.1	11
11	23	20	130	64	110	802	167	198	972	21	9.1	12
12	21	18	120	60	100	594	188	413	696	21	15	9.7
13	32	20	100	56	100	469	265	542	365	21	36	9.1
14	38	21	94	52	96	374	790	384	239	20	20	8.6
15	47	47	90	54	92	320	1,450	428	195	18	14	9.1
16	32	124	86	54	90	325	1,640	627	167	16	13	10
17	25	108	82	54	90	423	910	1,230	141	16	17	11
18	21	69	80	54	88	433	538	1,760	127	15	42	11
19	20	54	76	56	92	365	433	1,150	116	15	22	11
20	19	45	74	150	130	307	384	708	113	16	15	9.1
21	19	43	72	500	258	269	294	510	113	18	12	8.6
22	18	45	70	780	418	246	258	807	108	18	11	9.1
23	17	47	70	920	572	225	214	1,140	85	15	10	8.6
24	17	93	70	880	460	179	185	914	71	14	9.1	9.1
25	16	225	100	560	390	158	167	520	62	15	8.6	9.7
26	16	201	428	420	320	176	150	307	52	17	8.1	8.6
27	17	130	682	1,130	270	158	135	235	48	26	11	7.7
28	18	127	844	1,660	290	211	124	198	44	17	10	8.6
29	47	147	634	1,740	------	484	490	185	38	13	17	9.1
30	88	130	342	1,190	------	790	616	173	33	11	12	11
31	66	------	180	1,050	------	1,230	------	152	------	11	9.1	------
TOTAL	1,250	2,104	7,731	12,434	6,986	26,395	14,586	14,828	6,213	623	450.2	294.7
MEAN	40.3	70.1	249	401	250	851	486	478	207	20.1	14.5	9.82
MAX	122	225	844	1,740	880	4,010	1,640	1,760	972	31	42	14
MIN	16	18	70	52	88	158	124	141	33	11	8.1	7.7
CFSM	.22	.37	1.33	2.14	1.34	4.55	2.60	2.56	1.11	.11	.08	.05
IN.	.25	.42	1.54	2.47	1.39	5.25	2.90	2.95	1.24	.12	.09	.06

CAL YR 1973 TOTAL 78,963.6 MEAN 216 MAX 2,980 MIN 8.0 CFSM 1.16 IN 15.71
WTR YR 1974 TOTAL 93,894.9 MEAN 257 MAX 4,010 MIN 7.7 CFSM 1.37 IN 18.68

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 7	0800	4.28	778	4- 1	0600	5.35	1,500
12-28	0430	4.46	886	4-15	2300	5.83	1,880
1-24	--	--	A 1,100	4-30	2100	4.12	682
1-29	0700	5.85	1,900	5-13	0900	3.95	582
2-23	1100	4.40	850	5-18	0830	5.86	1,910
3- 5	0045	8.54	4,500	5-23	1600	4.94	1,210
				6-11	0900	4.66	1,010

A ABOUT

04087257 PIKE RIVER NEAR RACINE, WIS.

LOCATION.--LAT 42°30'49", LONG 87°51'30", IN SE 1/4 NE 1/4 SEC.11, T.2 N., R.22 E., KENOSHA COUNTY, ON RIGHT BANK JUST DOWNSTREAM FROM UNNAMED TRIBUTARY, 1.7 MI (2.7 KM) DOWNSTREAM FROM PIKE CREEK, 6.8 MI (10.9 KM) SOUTHWEST OF RACINE POST OFFICE AND 9.0 MI (14.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--38.7 MI^2 (100 KM^2).

PERIOD OF RECORD.--OCTOBER 1971 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 620 FT (189 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,240 FT^3/S (35.1 M^3/S) MAR. 3, GAGE HEIGHT, 7.71 FT (2.350 M); MINIMUM DAILY, 3.1 FT^3/S (0.088 M^3/S) NOV. 8.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,240 FT^3/S (35.1 M^3/S) MAR. 3, 1974, GAGE HEIGHT, 7.71 FT (2.350 M); MINIMUM DAILY, 0.53 FT^3/S (0.015 M^3/S) NOV. 11, 1971.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. LOW FLOWS CONSIDERABLY AFFECTED BY EFFLUENT DISCHARGE IN UPPER PORTION OF BASIN, AND BY OCCASIONAL REGULATION OF SMALL RECREATION DAM 1.1 MI (1.8 KM) UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (SHIFTING-CONTROL METHOD USED JUNE 8-19; STAGE-DISCHARGE RELATION AFFECTEO BY ICE DEC. 11-13, 15-23, JAN. 8-11, 13-17, FEB. 7-13, 16-19.)

2.0	3.0	3.0	64
2.1	5.0	4.0	167
2.2	8.2	5.0	336
2.3	12	6.0	600
2.5	24	7.2	1,010

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	26	29	40	153	161	122	55	31	16	4.6	4.2
2	16	11	27	34	101	267	85	51	21	16	4.6	3.8
3	20	9.5	25	30	79	1,010	80	34	24	16	5.1	3.8
4	16	9.5	174	26	62	665	120	34	25	41	4.4	4.2
5	13	9.1	295	24	48	340	84	32	23	9.5	4.0	4.2
6	13	18	155	23	39	196	65	31	60	18	4.4	4.4
7	8.7	6.9	102	21	33	142	54	23	108	8.0	4.4	4.2
8	7.2	3.1	77	20	31	195	44	52	109	13	4.4	4.0
9	11	17	62	19	30	181	42	34	524	7.2	4.4	3.6
10	9.9	6.9	51	18	29	139	38	33	253	21	4.6	4.2
11	15	6.9	36	17	26	108	30	54	158	4.8	6.6	4.2
12	8.0	6.9	33	15	24	96	40	45	107	9.9	4.4	4.4
13	30	8.0	29	17	23	73	42	37	77	8.7	4.6	4.6
14	11	13	26	16	22	63	394	79	62	7.6	4.6	4.4
15	10	83	24	15	21	58	163	140	68	4.4	4.4	3.6
16	9.9	47	23	15	21	77	99	307	52	6.3	5.6	3.4
17	9.1	30	22	14	21	84	67	256	46	6.3	8.7	4.0
18	8.7	25	21	14	22	68	55	143	40	8.3	4.6	4.6
19	12	20	20	13	30	60	58	100	28	8.0	4.2	4.9
20	4.9	18	20	115	60	50	44	77	68	6.6	4.2	4.9
21	4.4	20	19	222	103	46	44	96	158	5.6	4.6	4.6
22	5.6	16	19	159	214	42	43	269	55	7.6	4.9	4.0
23	5.1	13	19	114	182	38	39	118	45	8.0	4.6	4.2
24	5.6	78	21	82	123	31	28	75	33	6.9	4.6	5.1
25	5.9	58	84	67	94	28	27	61	30	6.3	4.2	5.6
26	5.1	40	147	146	68	29	28	48	27	6.3	4.0	5.6
27	6.3	33	153	711	58	27	27	44	18	5.9	6.3	5.9
28	9.1	56	116	270	94	65	25	41	21	5.6	5.9	5.6
29	8.7	45	85	179	------	89	217	42	18	4.4	4.6	6.6
30	8.3	36	65	197	------	161	88	32	17	3.8	4.4	5.4
31	17	------	54	356	------	182	------	30	------	4.9	4.9	------
TOTAL	326.5	769.8	2,033	3,009	1,811	4,771	2,292	2,473	2,306	301.9	149.8	136.2
MEAN	10.5	25.7	65.6	97.1	64.7	154	76.4	79.8	76.9	9.74	4.83	4.54
MAX	30	83	295	711	214	1,010	394	307	524	41	8.7	6.6
MIN	4.4	3.1	19	13	21	27	25	23	17	3.8	4.0	3.4
CFSM	.27	.66	1.70	2.51	1.67	3.98	1.97	2.06	1.99	.25	.12	.12
IN.	.31	.74	1.95	2.89	1.74	4.59	2.20	2.38	2.22	.29	.14	.13

CAL YR 1973 TOTAL 15,481.7 MEAN 42.4 MAX 481 MIN 3.1 CFSM 1.10 IN 14.88
WTR YR 1974 TOTAL 20,379.2 MEAN 55.8 MAX 1,010 MIN 3.1 CFSM 1.44 IN 19.59

PEAK DISCHARGE (BASE, 600 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17-72	1830	6.71	824	4-22-73	0130	6.71	824
4-16-72	1745	7.31	1,060	5- 1-73	0130	6.18	654
6-15-72	--	7.60	1,200	1-27-74	0330	6.99	915
6-20-72	0200	6.07	621	3- 3-74	1615	7.71	1,240
9-13-72	1215	6.10	633	4-14-74	0930	6.30	693
9-18-72	--	7.50	1,150	5-16-74	1500	6.13	645
12-30-72	1830	6.46	739	6- 9-74	1115	6.35	739

05333500 ST. CROIX RIVER NEAR DANBURY, WIS.

LOCATION.--LAT 46°04'28", LONG 92°14'50", IN SW 1/4 SEC.33, T.42 N., R.15 W., BURNETT COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF BRIDGE ON STATE HIGHWAY 35, 3.5 MI (5.6 KM) DOWNSTREAM FROM NAMEKAGON RIVER, 10 MI (16 KM) NORTHEAST OF DANBURY, AND AT MILE 129.2 (207.9 M).

DRAINAGE AREA.--1,588 MI^2 (4,113 KM^2).

PERIOD OF RECORD.--MARCH 1914 TO CURRENT YEAR. PRIOR TO OCTOBER 1933, PUBLISHED AS "AT SWISS".

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 882.21 FT (268.898 M) ABOVE MEAN SEA LEVEL. PRIOR TO APR. 23, 1937, NONRECORDING GAGE 40 FT (12 M) DOWNSTREAM AT SAME DATUM. APR. 23, 1937, TO JAN. 5, 1939, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--60 YEARS, 1,303 FT^3/S (36.90 M^3/S), 11.14 IN/YR (283 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 4,960 FT^3/S (140 M^3/S) JUNE 11, GAGE HEIGHT, 4.65 FT (1.417 M); MINIMUM, 767 FT^3/S (21.7 M^3/S) AUG. 1, GAGE HEIGHT, 0.61 FT (0.186 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 10,200 FT^3/S (289 M^3/S) MAY 6, 1950, GAGE HEIGHT, 8.22 FT (2.505 M); MINIMUM OBSERVED, 393 FT^3/S (11.1 M^3/S) AUG. 6, 13, 1934, GAGE HEIGHT, -0.20 FT (-0.061 M), SITE THEN IN USE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1208: DRAINAGE AREA. WSP 1438: 1915(M), 1919-20, 1923-24(M), 1927(M), 1931(M), 1934, 1935-37(M). WSP 1628: 1918.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 7 TO APR. 13.)

0.6	760	2.0	1,940
0.8	900	3.0	3,010
1.0	1,060	4.0	4,130
		5.0	5,440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,300	1,370	1,640	1,000	1,100	980	1,100	2,160	1,570	1,150	823	1,040
2	1,260	1,400	1,510	1,000	1,000	960	1,100	2,020	1,480	1,050	1,060	990
3	1,260	1,370	1,520	1,000	1,000	980	980	1,960	1,500	1,110	1,530	964
4	1,190	1,340	1,400	1,000	980	1,000	940	1,930	1,500	986	1,750	981
5	1,160	1,300	1,430	1,000	940	1,100	1,000	1,890	1,550	968	1,520	919
6	1,150	1,220	1,270	1,000	980	1,200	1,000	1,830	1,460	969	1,510	874
7	1,090	1,160	1,200	960	1,000	1,200	1,100	1,780	1,980	944	1,440	925
8	1,110	1,220	1,200	900	1,000	1,200	1,100	1,750	2,280	912	1,360	914
9	1,410	1,160	1,200	860	1,000	1,200	1,100	1,620	2,250	896	1,270	1,010
10	2,760	1,200	1,200	860	980	1,100	1,200	1,660	3,280	906	1,270	1,240
11	3,700	1,120	1,100	840	980	1,200	1,400	1,750	4,700	918	1,260	1,250
12	4,420	1,230	1,000	860	1,000	1,200	1,800	2,250	4,550	888	1,290	1,260
13	4,430	1,370	1,100	860	980	1,100	3,000	2,200	4,080	912	1,330	1,320
14	3,840	1,290	1,100	860	980	1,200	3,430	2,230	3,610	929	1,350	1,270
15	3,450	1,190	1,100	840	1,000	1,300	3,420	2,240	3,170	973	1,280	1,230
16	2,860	1,190	1,100	860	1,000	1,200	3,500	2,140	2,830	1,010	1,400	1,090
17	2,380	1,210	1,100	880	980	1,100	3,530	2,060	2,310	972	1,420	1,100
18	2,280	1,210	1,000	900	980	1,100	3,420	1,960	2,020	1,020	1,390	1,140
19	2,100	1,160	1,000	920	1,000	1,100	3,380	1,870	1,930	961	1,380	1,130
20	1,880	1,290	1,000	960	1,000	1,100	3,240	1,780	1,790	935	1,280	1,110
21	1,870	1,860	1,000	1,000	1,000	1,000	3,200	1,760	1,780	883	1,340	1,050
22	1,800	2,130	1,000	1,000	980	860	3,100	1,910	1,650	908	1,310	1,000
23	1,580	2,120	1,100	1,000	960	780	3,000	1,880	1,530	888	1,260	1,020
24	1,600	2,010	1,100	1,100	960	800	2,880	1,780	1,390	910	1,260	1,010
25	1,640	2,020	1,100	1,100	960	860	2,480	1,740	1,250	967	1,160	991
26	1,600	1,930	1,200	1,000	980	960	2,230	1,570	1,280	982	1,060	978
27	1,550	1,910	1,200	1,000	980	1,100	2,300	1,440	1,170	953	1,060	966
28	1,560	1,900	1,200	1,000	1,000	1,200	2,490	1,520	1,150	902	1,050	943
29	1,490	1,790	1,100	980	------	1,100	2,320	1,550	1,150	902	1,150	927
30	1,460	1,720	1,100	960	------	1,100	2,160	1,390	1,170	917	1,130	922
31	1,410	------	1,100	1,000	------	1,100	------	1,520	------	856	1,090	------
TOTAL	62,590	44,390	36,370	29,500	27,700	33,380	66,900	57,140	63,360	29,477	39,783	31,564
MEAN	2,019	1,480	1,173	952	989	1,077	2,230	1,843	2,112	951	1,283	1,052
MAX	4,430	2,130	1,640	1,100	1,100	1,300	3,530	2,250	4,700	1,150	1,750	1,320
MIN	1,090	1,120	1,000	840	940	780	940	1,390	1,150	856	823	874
CFSM	1.27	.93	.74	.60	.62	.68	1.40	1.16	1.33	.60	.81	.66
IN.	1.47	1.04	.85	.69	.65	.78	1.57	1.34	1.48	.69	.93	.74

CAL YR 1973 TOTAL 587,520 MEAN 1,610 MAX 4,430 MIN 833 CFSM 1.01 IN 13.76
WTR YR 1974 TOTAL 522,154 MEAN 1,431 MAX 4,700 MIN 780 CFSM .90 IN 12.23

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	2300	4.42	4,660	6-11	1600	4.65	4,960
4-17	0400	3.51	3,570				

05334000 SHELL LAKE AT SHELL LAKE, WIS.

LOCATION.--LAT 45°44'46", LONG 91°55'00", IN NE 1/4 SEC.25, T.38 N., R.13 W., WASHBURN COUNTY, 500 FT (150 M) EAST OF PETERSON BOAT FACTORY IN THE VILLAGE OF SHELL LAKE.

DRAINAGE AREA.--34.0 MI^2 (88 KM^2), APPROXIMATELY. AREA OF SHELL LAKE, 3,200 ACRES (13 KM).

PERIOD OF RECORD.--AUGUST 1936 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 1,215.88 FT (370.600 M) ABOVE MEAN SEA LEVEL. MAY 3, 1952, TO APR. 21, 1961, 2.3 MI (3.7 KM) SOUTHEAST OF VILLAGE OF SHELL LAKE AT SAME DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 3.58 FT (1.091 M) JUNE 14; MINIMUM OBSERVED, 2.58 FT (0.786 M) SEPT. 30.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 5.13 FT (1.564 M) JULY 17, 1954; MINIMUM OBSERVED, -0.92 FT (-0.280 M) NOV. 28, 1949.

REMARKS.--LAKE HAS NO SURFACE OUTLET. LAKE ICE COVERED FROM ABOUT DEC. 8 TO APR. 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			2.70						3.40			
2		2.78										
3									3.40		3.04	
4				2.77								
5												
6	3.00									3.32		
7												2.60
8												
9		2.68										
10											2.98	
11					2.77							
12												
13	2.98									3.24		
14									3.58			2.82
15										3.22		
16		2.66									3.06	
17												
18												
19	2.88											
20										3.14		
21											2.98	2.70
22								3.43	3.54			
23		2.74										
24											2.90	
25												
26												2.62
27	2.84						3.36			3.00		
28												
29					------	2.87			3.40			
30					------							2.58
31		------			------		------		------		2.76	------

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WIS.

LOCATION.--LAT 45°24'25", LONG 92°38'49", IN NW 1/4 SEC.30, T.34 N., R.18 W., POLK COUNTY, ON LEFT BANK, 1,800 FT (550 M) DOWNSTREAM FROM POWERPLANT OF NORTHERN STATES POWER CO., IN ST. CROIX FALLS, AND AT MILE 52.2 (84.0 KM)

DRAINAGE AREA.--5,930 MI^2 (15,360 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JANUARY 1902 TO CURRENT YEAR. PRIOR TO JANUARY 1910, MONTHLY DISCHARGE ONLY, PUBLISHED IN WSP 1308. PRIOR TO OCTOBER 1939, PUBLISHED AS "NEAR ST CROIX FALLS."

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 689.94 FT (210.294 M) ABOVE MEAN SEA LEVEL. PRIOR TO JULY 1905, GAGE HEIGHTS AND DISCHARGE MEASUREMENTS WERE USED BY LOWETH AND WOLFF, CONSULTING ENGINEERS OF ST. PAUL, MINN., TO DETERMINE THE FLOW. JULY 1905 TO FEBUARY 1940, RECORDS WERE COMPUTED FROM POWER GENERATION AT THE ST. CROIX FALLS POWERPLANT.

AVERAGE DISCHARGE.--72 YEARS, 4,175 FT^3/S (118.2 M^3/S), 9.56 IN/YR (243 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 26,000 FT^3/S (736 M^3/S) JUNE 13, GAGE HEIGHT, 12.29 FT (3.746 M); MINIMUM DAILY, 1,840 FT^3/S (52.1 M^3/S) SEPT. 7.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 54,900 FT^3/S (1,550 M^3/S) MAY 8, 1950, GAGE HEIGHT, 25.19 FT (7.678 M); MINIMUM DAILY, 75 FT^3/S (2.12 M^3/S) JULY 17, 1910.

REMARKS.--RECORDS ARE GOOD. DIURNAL FLUCTUATION CAUSED BY ST. CROIX FALLS POWERPLANT 1,800 FT (550 M) UPSTREAM.

REVISIONS (WATER YEARS).--WSP 1115: 1929.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

2.2	1,840	4.0	6,950
2.3	2,050	6.0	11,900
2.6	2,720	8.0	16,400
3.0	3,800	12.0	25,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,150	4,640	6,490	3,030	2,880	2,660	3,520	11,400	5,870	3,540	2,440	2,300
2	3,610	4,440	6,480	3,180	2,560	2,650	4,170	10,300	6,260	3,240	2,690	2,100
3	3,700	4,280	6,360	2,870	2,490	2,460	3,040	9,870	6,240	3,330	2,860	2,400
4	3,510	4,150	6,050	3,170	2,620	2,630	4,030	9,150	5,990	2,560	3,910	2,080
5	3,440	4,110	5,080	2,910	2,580	2,710	3,910	8,660	6,350	2,910	5,180	2,450
6	3,270	3,810	2,960	2,750	2,470	3,670	3,820	8,490	8,220	2,350	5,070	2,080
7	2,930	3,800	2,910	2,890	2,450	2,990	4,300	7,490	10,200	2,160	4,450	1,840
8	3,070	3,340	3,250	2,910	2,660	3,050	5,410	7,700	11,600	2,740	4,310	1,930
9	4,460	2,900	3,660	2,920	2,580	3,750	5,440	6,620	14,100	2,500	4,230	3,240
10	5,930	2,820	3,700	2,860	2,520	3,300	5,510	6,360	16,000	1,980	3,350	3,020
11	12,200	3,620	3,650	2,720	2,620	3,690	5,840	6,330	18,600	2,560	3,670	2,800
12	16,500	4,260	3,180	2,580	2,350	3,950	5,990	7,290	24,400	2,420	3,550	3,090
13	21,200	3,690	3,170	2,360	2,540	4,010	8,870	9,920	25,400	3,060	3,710	2,480
14	23,000	3,770	3,700	2,760	2,630	4,050	13,000	10,600	22,600	2,210	3,540	2,860
15	22,000	3,720	3,410	2,280	2,670	4,000	16,200	11,000	18,500	2,430	3,580	2,980
16	19,400	3,570	3,290	2,460	2,470	3,850	17,900	11,700	15,200	2,550	3,500	2,770
17	16,600	3,510	3,320	2,580	2,290	3,850	18,400	11,700	12,100	2,940	3,390	2,780
18	13,900	3,460	2,970	2,410	2,680	4,140	18,600	11,200	9,900	2,790	3,010	2,650
19	11,700	3,470	2,910	2,570	2,580	3,780	19,000	10,500	8,150	3,280	3,330	2,640
20	10,700	3,970	3,180	2,440	2,620	3,310	19,100	9,520	10,600	2,230	3,100	2,850
21	9,350	5,240	3,300	2,630	2,580	3,120	18,600	9,170	6,040	2,140	3,070	2,450
22	8,040	8,010	3,230	2,560	2,770	3,430	17,700	8,980	6,440	2,480	3,080	2,150
23	7,280	9,710	3,330	2,650	2,700	2,980	16,900	9,240	6,480	2,130	3,130	2,450
24	6,640	10,500	3,370	2,590	2,600	2,550	16,000	9,300	5,790	3,070	2,860	2,520
25	5,920	10,000	3,370	2,690	2,560	2,780	15,300	8,410	5,040	2,550	2,660	2,100
26	5,720	9,430	3,410	2,400	2,570	2,720	14,200	7,720	4,630	2,890	2,760	2,430
27	5,420	9,050	3,120	2,420	2,420	2,980	13,100	7,360	4,230	2,400	2,430	2,250
28	5,170	8,650	3,550	2,750	2,530	3,120	12,000	6,430	4,170	2,220	2,490	2,280
29	5,030	7,410	3,150	2,780	------	3,220	11,600	5,620	3,710	2,360	2,470	1,990
30	5,170	6,380	3,110	2,650	------	3,080	11,600	5,470	3,480	1,970	2,680	2,290
31	4,710	------	3,510	2,680	------	2,670	------	6,190	------	2,060	2,360	------
TOTAL	273,720	159,710	116,170	83,450	71,990	101,150	333,050	269,690	306,290	80,050	102,860	74,250
MEAN	8,830	5,324	3,747	2,692	2,571	3,263	11,100	8,700	10,210	2,582	3,318	2,475
MAX	23,000	10,500	6,490	3,180	2,880	4,140	19,100	11,700	25,400	3,540	5,180	3,240
MIN	2,930	2,820	2,910	2,280	2,290	2,460	3,040	5,470	3,480	1,970	2,360	1,840
CFSM	1.49	.90	.63	.45	.43	.55	1.87	1.47	1.72	.44	.56	.42
IN.	1.72	1.00	.73	.52	.45	.63	2.09	1.69	1.92	.50	.65	.47

CAL YR 1973 TOTAL 2,015,340 MEAN 5,521 MAX 24,800 MIN 1,860 CFSM .93 IN 12.64
WTR YR 1974 TOTAL 1,972,380 MEAN 5,404 MAX 25,400 MIN 1,840 CFSM .91 IN 12.37

NOTE.--NO GAGE-HEIGHT RECORD JUNE 7 TO AUG. 23.

05344500 MISSISSIPPI RIVER AT PRESCOTT, WIS.

LOCATION.--LAT 44°44'45", LONG 92°48'00", IN SEC.9, T.26 N., R.20 W., PIERCE COUNTY, ON LEFT BANK AT PRESCOTT, 200 FT (61 M) DOWNSTREAM FROM ST. CROIX RIVER, 300 FT (91 M) SOUTH OF CHICAGO, BURLINGTON & QUINCY RAILROAD BRIDGE, 800 FT (244 M) SOUTH OF BRIDGE ON U.S. HIGHWAY 10, AND AT MILE 811.4 (1,306 KM) UPSTREAM FROM OHIO RIVER.

DRAINAGE AREA.--44,800 MI^2 (116,000 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JUNE 1928 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 649.50 FT (197.97 M) ABOVE MEAN SEA LEVEL, DATUM OF 1929. PRIOR TO AUG. 2, 1932, NONRECORDING GAGE AT RAILROAD BRIDGE 300 FT (91 M) UPSTREAM AT FOLLOWING DATUMS: JUNE 3, 1928, TO SEPT. 30, 1929, 19.27 FT (5.873 M) HIGHER; OCT. 1, 1929, TO SEPT. 30, 1930, 17.68 FT (5.389 M) HIGHER; OCT. 1, 1930, TO AUG. 1, 1932, 19.28 FT (5.877 M) HIGHER. AUG. 2, 1932, TO OCT. 30, 1938, WATER-STAGE RECORDER AT PRESENT SITE AT DATUM 19.28 FT (5.877 M) HIGHER; NOV. 1, 1938, TO SEPT. 7, 1971, WATER-STAGE RECORDER AT PRESENT SITE AT DATUM 50.00 FT (15.240 M) LOWER. AUXILIARY WATER-STAGE RECORDER 10.7 MI (17.2 KM) DOWNSTREAM FROM BASE GAGE.

AVERAGE DISCHARGE.--46 YEARS, 16,200 FT^3/S (459 M^3/S), 4.91 IN/YR (125 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE 65,200 FT^3/S (1,850 M^3/S) JUNE 15 (GAGE HEIGHT, 32.64 FT OR 9.949 M); MINIMUM DAILY, 4,400 FT^3/S (125 M^3/S) SEPT. 30; MINIMUM GAGE HEIGHT, 24.52 FT (7.474 M) JULY 15.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 228,000 FT^3/S (6,460 M^3/S) APR. 18, 1965 (GAGE HEIGHT, 43.11 FT OR 13.140 M); MINIMUM DAILY, 1,380 FT^3/S (39.1 M^3/S) JULY 13, 1940; MINIMUM GAGE HEIGHT, 15.08 FT (4.596 M) AUG. 29, 1934, PRESENT DATUM.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. SOME REGULATION BY RESERVOIRS, NAVIGATION DAMS, AND POWERPLANTS AT LOW AND MEDIUM STAGES. FLOOD FLOW NOT MATERIALLY AFFECTED BY ARTIFICIAL STORAGE.

REVISIONS (WATER YEARS).--WSP 1508: 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,900	26,100	27,800	9,400	8,200	10,100	16,700	42,300	31,500	23,700	9,790	6,930
2	12,800	24,900	26,800	9,200	8,000	8,900	18,300	41,200	31,100	21,900	10,900	6,470
3	12,800	22,600	26,000	8,000	7,200	9,700	18,900	40,400	31,100	19,000	12,900	6,590
4	13,200	21,300	25,000	8,200	7,500	9,600	20,100	38,800	32,300	17,900	13,400	6,500
5	12,700	21,100	24,200	9,100	7,600	12,800	20,400	37,700	33,400	16,400	12,600	6,700
6	13,100	20,200	20,300	9,900	7,800	13,600	23,000	36,500	34,100	14,800	13,000	6,720
7	13,500	19,000	15,300	9,800	7,800	14,000	24,500	35,400	36,500	13,400	14,400	6,440
8	12,200	18,500	10,000	10,000	8,200	15,300	26,800	34,500	39,300	13,800	14,500	5,680
9	11,500	17,400	10,400	9,500	8,600	19,000	28,700	33,800	43,200	14,500	14,100	6,080
10	12,300	15,600	12,400	8,800	8,400	18,600	29,300	32,500	46,800	14,100	13,700	6,840
11	16,500	14,200	9,200	8,800	8,000	18,400	30,000	32,100	50,900	13,800	12,800	7,040
12	25,000	15,000	10,700	8,700	8,500	19,500	30,800	31,900	55,200	12,500	11,400	7,010
13	30,800	16,000	11,100	7,900	8,200	20,300	33,100	32,200	60,900	11,600	11,400	7,170
14	37,000	16,600	12,000	8,700	8,500	22,000	36,900	34,800	64,300	11,200	11,600	6,810
15	43,300	16,500	12,300	8,600	8,400	23,300	41,800	37,200	64,700	9,860	11,500	6,550
16	46,500	16,700	11,000	7,600	8,400	23,200	46,000	39,700	61,500	9,850	11,200	5,890
17	48,000	17,200	9,800	7,900	8,100	22,800	50,700	41,300	58,000	10,800	11,300	5,330
18	47,200	16,400	9,800	8,800	8,400	21,600	54,800	42,100	53,800	11,300	11,400	5,330
19	45,000	15,700	12,400	8,700	8,800	21,300	57,700	42,300	49,900	11,400	11,200	5,490
20	42,800	16,400	11,400	8,600	8,200	21,000	58,200	42,100	46,500	11,800	11,600	5,490
21	40,300	20,000	10,900	8,600	8,700	19,600	56,700	42,100	43,800	11,200	11,500	5,820
22	38,200	22,800	9,800	7,900	8,500	18,200	55,400	41,200	40,900	10,300	10,800	5,930
23	36,200	24,000	11,000	8,200	8,400	18,200	52,500	39,900	37,500	9,900	9,360	6,450
24	34,600	27,000	12,100	7,900	8,300	17,800	51,200	39,500	35,400	9,710	8,970	5,410
25	33,900	29,000	12,500	8,100	7,900	16,800	50,100	38,700	33,700	10,900	9,090	5,900
26	32,500	30,900	12,400	8,600	8,300	17,000	48,700	37,200	31,900	12,100	8,530	6,040
27	30,900	31,400	12,800	8,700	8,500	17,400	46,800	36,000	30,100	12,200	8,600	5,410
28	29,200	31,200	12,800	7,700	8,200	17,900	45,500	35,300	28,600	10,800	8,340	4,700
29	28,400	30,700	12,600	8,400	------	18,000	44,500	34,200	27,500	9,470	7,660	4,660
30	27,700	29,500	10,400	8,500	------	16,100	43,600	32,600	25,400	8,100	7,300	4,400
31	26,800	------	9,800	8,400	------	14,900	------	32,000	------	8,910	6,900	------
TOTAL	867,800	643,900	435,000	267,200	229,600	536,900	1,161.7M	1,157.5M	1,259.8M	397,200	341,740	181,780
MEAN	27,990	21,460	14,030	8,619	8,200	17,320	38,720	37,340	41,990	12,810	11,020	6,059
MAX	48,000	31,400	27,800	10,000	8,800	23,300	58,200	42,300	64,700	23,700	14,500	7,170
MIN	11,500	14,200	9,200	7,600	7,200	8,900	16,700	31,900	25,400	8,100	6,900	4,400
CFSM	.62	.48	.31	.19	.18	.39	.86	.83	.94	.29	.25	.14
IN.	.72	.53	.36	.22	.19	.45	.96	.96	1.05	.33	.28	.15

CAL YR 1973 TOTAL 7,663,950 MEAN 21,000 MAX 78,000 MIN 6,400 CFSM .47 IN 6.36
WTR YR 1974 TOTAL 7,480,120 MEAN 20,490 MAX 64,700 MIN 4,400 CFSM .46 IN 6.21

M EXPRESSED IN THOUSANDS.

05356000 CHIPPEWA RIVER AT BISHOPS BRIDGE, NEAR WINTER, WIS.

LOCATION.--LAT 45°50'57", LONG 91°04'44", IN SEC.23, T.39 N., R.6 W., SAWYER COUNTY, ON RIGHT BANK 15 FT (5 M) UPSTREAM FROM HIGHWAY BRIDGE ON COUNTY TRUNK HIGHWAY G, 3.2 MI (5.1 KM) DOWNSTREAM FROM LAKE CHIPPEWA DAM, AND 3.7 MI (6.0 KM) NORTHWEST OF WINTER.

DRAINAGE AREA.--787 MI^2 (2,038 KM^2).

PERIOD OF RECORD.--FEBRUARY 1912 TO CURRENT YEAR. DECEMBER TO APRIL 1913, MONTHLY DISCHARGE ONLY, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,270 FT (387 M), FROM LAKE CHIPPEWA DATUM. SEE WSP 1708 OR 1728 FOR HISTORY OF CHANGES PRIOR TO JULY 23, 1930.

AVERAGE DISCHARGE.--62 YEARS, 717 FT^3/S (20.31 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,390 FT^3/S (96.0 M^3/S) OCT. 11, GAGE HEIGHT, 7.76 FT (2.365 M); MINIMUM, 118 FT^3/S (3.34 M^3/S) MAR. 28-31, APR. 3, GAGE HEIGHT, 3.90 FT (1.189 M); MINIMUM DAILY, 118 FT^3/S (3.34 M^3/S) MAR. 29, 31.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 7,520 FT^3/S (213 M^3/S) SEPT. 4, 5, 1914, GAGE HEIGHT, 11.05 FT (3.368 M); MINIMUM, 14 FT^3/S (0.40 M^3/S) APR. 17-20, 1925, GAGE HEIGHT, 3.25 FT (0.991 M).

REMARKS.--RECORDS GOOD. FLOW REGULATION BY MOOSE LAKE AND LAKE CHIPPEWA (SEE P.102).

REVISIONS (WATER YEARS).--WSP 1208: DRAINAGE AREA. WSP 1438: 1913(M), 1915-18(M), 1919, 1920-23(M), 1924, 1925(M), 1927(M), 1928, 1929-30(M), 1939(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

OCT. 1 TO JAN. 2				JAN. 3 TO SEPT. 30			
4.5	305	7.0	2,430	3.9	118	6.0	1,450
5.0	560	8.0	3,770	4.4	310	7.0	2,470
6.0	1,370			3.0	640	8.0	3,770

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	542	1,240	1,160	1,140	996	121	154	752	753	556	717
2	337	542	1,240	1,150	1,130	990	121	154	752	751	676	717
3	487	465	1,240	1,220	1,120	989	124	160	752	666	787	717
4	605	400	1,230	1,260	1,120	987	157	241	741	580	928	717
5	604	395	1,230	1,260	1,110	844	229	245	737	363	1,040	717
6	604	394	1,230	1,250	1,110	450	124	241	737	363	1,040	538
7	603	395	1,230	1,250	1,110	450	124	241	741	362	893	365
8	503	395	1,230	1,240	1,100	450	128	241	740	361	648	360
9	1,480	395	1,230	1,240	1,100	441	128	241	743	359	840	390
10	2,920	395	1,220	1,230	1,090	387	137	241	405	358	1,060	375
11	3,340	394	1,220	1,230	1,090	316	154	270	976	358	1,060	370
12	3,340	395	1,210	1,220	1,080	256	229	261	1,680	358	1,060	370
13	2,990	395	1,210	1,220	1,080	257	306	257	2,430	360	1,050	370
14	2,410	660	1,210	1,220	1,070	258	221	265	2,430	356	1,050	370
15	1,860	1,180	1,200	1,210	1,070	257	197	301	2,640	356	1,060	370
16	1,750	1,270	1,200	1,210	1,060	257	221	335	2,810	356	986	370
17	1,750	1,260	1,200	1,200	1,060	257	233	360	2,800	360	808	370
18	1,750	1,260	1,200	1,200	1,050	258	221	508	2,570	356	745	370
19	1,540	1,260	1,200	1,190	1,050	258	193	514	1,910	359	738	370
20	1,420	1,260	1,190	1,190	1,040	258	185	514	1,210	354	738	370
21	1,420	1,280	1,190	1,180	1,040	271	205	520	895	354	724	370
22	1,410	1,260	1,180	1,180	1,030	283	193	520	651	353	724	370
23	1,410	1,250	1,180	1,180	1,030	301	178	520	606	352	717	370
24	1,410	1,250	1,170	1,170	1,030	325	168	520	603	355	717	370
25	1,410	1,260	1,170	1,170	1,020	261	160	514	602	462	717	370
26	1,340	1,260	1,170	1,160	1,020	261	168	514	602	556	717	370
27	866	1,260	1,170	1,150	1,010	249	164	514	600	557	710	370
28	625	1,250	1,160	1,150	997	171	157	514	689	555	710	370
29	554	1,250	1,160	1,150	------	118	157	508	749	555	710	370
30	542	1,240	1,160	1,140	------	121	157	514	747	556	717	370
31	542	------	1,160	1,140	------	118	------	604	------	554	717	------
TOTAL	42,159	26,212	37,230	37,120	29,957	12,095	5,260	11,506	35,300	13,698	25,643	13,013
MEAN	1,360	874	1,201	1,197	1,070	390	175	371	1,177	442	827	434
MAX	3,340	1,280	1,240	1,260	1,140	996	306	604	2,810	753	1,060	717
MIN	337	394	1,160	1,140	997	118	121	154	405	352	556	360

CAL YR 1973 TOTAL 341,352 MEAN 935 MAX 3,340 MIN 88
WTR YR 1974 TOTAL 289,193 MEAN 792 MAX 3,340 MIN 118

05356500 CHIPPEWA RIVER NEAR BRUCE, WIS.

LOCATION.--LAT 45°27'08", LONG 91°15'39", IN SE 1/4 SEC.5, T.34 N., R.7 E., RUSK COUNTY, ON RIGHT BANK 1.0 MI (1.6 KM) EAST OF BRUCE AND 1.0 MI (1.6 KM) DOWNSTREAM FROM THORNAPPLE RIVER.

DRAINAGE AREA.--1,630 MI^2 (4,220 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--DECEMBER 1913 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,059.62 FT (322.972 M) ABOVE MEAN SEA LEVEL. PRIOR TO MAY 28, 1935, NONRECORDING GAGE AT RAILROAD BRIDGE 0.8 MI (1.3 KM) UPSTREAM AT DATUM 2.30 FT (0.701 M) HIGHER.

AVERAGE DISCHARGE.--60 YEARS, 1,458 FT^3/S (41.29 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 9,770 FT^3/S (277 M^3/S) APR. 14, GAGE HEIGHT, 10.54 FT (3.213 M); MINIMUM, 560 FT^3/S (15.9 M^3/S) JULY 7, GAGE HEIGHT, 2.10 FT (0.640 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 25,800 FT^3/S (731 M^3/S) SEPT. 1, 1941, GAGE HEIGHT, 20.46 FT (6.236 M), FROM FLOODMARKS, FROM RATING CURVE EXTENDED ABOVE 20,000 FT^3/S (566 M^3/S); MINIMUM, 155 FT^3/S (4.39 M^3/S) JUNE 10, 1932, GAGE HEIGHT, 0.9 FT (0.274 M), SITE AND DATUM THEN IN USE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR. FLOW FROM 48 PERCENT OF THE DRAINAGE AREA REGULATED BY MOOSE LAKE AND LAKE CHIPPEWA (SEE P.102).

REVISIONS (WATER YEARS).--WSP 875: 1936-38. WSP 1278: DRAINAGE AREA. WSP 1308: 1922, 1937(M). WSP 1508: 1914-26(M), 1927, 1928-31(M), 1932, 1933(M), 1934-36, 1938.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED APR. 25 TO MAY 12, JUNE 12-19; STAGE-DISCHRAGE RELATION AFFECTED BY ICE DEC. 2 TO APR. 9.)

OCT. 1 TO JUNE 19				JUNE 20 TO SEPT. 30			
2.2	860	8.0	6,410	2.1	560	5.0	2,950
3.0	1,420	11.0	10,460	3.0	1,130		
5.0	3,040						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	1,370	2,170	1,700	1,500	1,600	1,600	1,180	1,530	1,020	811	1,010
2	1,300	1,360	2,100	1,700	1,500	1,600	1,600	1,110	1,510	991	843	1,010
3	1,230	1,330	2,000	1,600	1,500	1,700	1,700	1,140	1,430	999	1,130	994
4	1,460	1,300	2,000	1,600	1,500	1,800	2,000	1,210	1,410	928	1,490	988
5	1,660	1,170	1,900	1,600	1,500	1,900	2,300	1,150	1,380	842	1,520	983
6	1,570	1,150	2,000	1,600	1,500	1,900	2,600	1,170	1,340	750	1,450	957
7	1,480	1,160	2,000	1,600	1,500	1,800	2,800	1,100	1,360	590	1,370	846
8	1,450	1,190	2,000	1,600	1,500	1,700	2,800	985	1,470	650	1,210	709
9	1,910	1,160	2,000	1,600	1,500	1,700	2,500	959	1,670	602	1,030	790
10	5,690	1,190	2,100	1,600	1,500	1,700	2,280	913	3,430	644	1,120	1,240
11	6,160	1,210	2,100	1,600	1,500	1,600	3,070	1,330	5,320	614	1,260	1,270
12	5,630	1,240	2,100	1,600	1,500	1,600	4,740	2,310	5,070	620	1,280	1,100
13	5,440	1,250	2,100	1,600	1,500	1,600	8,180	2,070	4,760	620	1,260	1,030
14	4,470	1,260	2,100	1,600	1,600	1,600	9,340	2,060	4,420	696	1,240	1,000
15	3,530	1,370	2,100	1,600	1,600	1,600	7,170	2,340	3,710	721	1,230	919
16	2,980	1,770	2,100	1,600	1,500	1,600	5,380	2,210	3,720	667	1,330	852
17	2,860	1,890	2,000	1,600	1,500	1,500	4,780	1,930	3,640	672	1,470	806
18	2,730	1,910	2,000	1,600	1,500	1,500	4,430	1,650	3,570	673	1,230	776
19	2,700	1,910	2,000	1,600	1,500	1,400	4,020	1,510	3,180	655	1,120	770
20	2,370	1,920	2,000	1,600	1,500	1,400	3,400	1,420	2,190	663	1,090	753
21	2,330	2,220	2,000	1,600	1,500	1,400	3,390	1,380	1,720	638	1,070	734
22	2,310	2,580	1,900	1,600	1,600	1,300	3,450	1,560	1,330	638	1,050	730
23	2,260	2,500	1,900	1,600	1,600	1,300	2,900	1,650	1,090	638	1,030	721
24	2,250	2,400	1,900	1,600	1,600	1,300	2,620	1,530	1,010	638	1,020	711
25	2,220	2,370	1,900	1,600	1,500	1,300	2,310	1,380	974	851	1,020	714
26	2,170	2,350	1,900	1,600	1,500	1,400	1,930	1,330	949	1,060	1,020	717
27	2,060	2,440	1,800	1,600	1,500	1,500	1,540	1,330	915	1,010	1,010	700
28	1,580	2,490	1,800	1,600	1,600	1,500	1,500	1,330	891	888	1,010	696
29	1,450	2,400	1,800	1,600	------	1,500	1,480	1,320	937	845	1,000	703
30	1,400	2,300	1,800	1,600	------	1,500	1,310	1,270	1,030	815	1,010	695
31	1,370	------	1,700	1,600	------	1,500	------	1,330	------	822	1,010	------
TOTAL	79,550	52,160	61,270	49,800	42,600	48,300	99,120	45,157	66,956	23,460	35,734	25,924
MEAN	2,566	1,739	1,976	1,606	1,521	1,558	3,304	1,457	2,232	757	1,153	864
MAX	6,160	2,580	2,170	1,700	1,600	1,900	9,340	2,340	5,320	1,060	1,520	1,270
MIN	1,230	1,150	1,700	1,600	1,500	1,300	1,310	913	891	590	811	695

CAL YR 1973 TOTAL 703,791 MEAN 1,928 MAX 8,130 MIN 536
WTR YR 1974 TOTAL 630,031 MEAN 1,726 MAX 9,340 MIN 590

05358300 PINE CREEK NEAR OXBO, WIS.

LOCATION.--LAT 45°54'12", LONG 90°41'00", IN SE 1/4 SEC.36, T.40 N., R.3 W., SAWYER COUNTY, CHEQUAMEGON NATIONAL FOREST, ON RIGHT BANK JUST DOWNSTREAM FROM CULVERT ON COUNTY TRUNK HIGHWAY EE, 2.0 MI (3.2 KM) UPSTREAM FROM MOUTH AND 3.0 MI (4.8 M) NORTHEAST OF OXBO.

DRAINAGE AREA.--37.8 MI^2 (97.9 KM^2).

PERIOD OF RECORD.--OCCASIONAL LOW-FLOW MEASUREMENTS, WATER YEARS 1967-70. OCTOBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,400 FT (427 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 384 FT^3/S (109 M^3/S) JUNE 11, GAGE HEIGHT, 3.98 FT (1.213 M); MINIMUM DAILY, 15 FT^3/S (0.425 M^3/S) SEPT. 7.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 670 FT^3/S (19.0 M^3/S) AUG. 18, 1972, GAGE HEIGHT, 5.00 FT (1.524 M), DISCHARGE NOT DETERMINED FOR 1973 WATER YEAR; MINIMUM DAILY, 12 FT^3/S (0.340 M^3/S) DEC. 26, 1972.

REMARKS.--RECORDS FAIR EXCEPT THOSE FOR PERIOD OF NO GAGE-HEIGHT RECORD AND WINTER PERIOD, WHICH ARE POOR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 5 TO ABOUT APR. 12.)

1.5	12	3.0	170
2.0	45	3.5	260
2.5	98	4.0	390

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	39	39	26	21	19	24	70	52	20	18	33
2	34	43	35	25	21	20	25	70	39	20	22	19
3	31	39	35	24	20	21	27	82	34	21	57	18
4	32	33	34	23	20	24	30	92	31	25	77	16
5	30	28	33	23	19	25	35	84	30	20	47	16
6	28	24	32	22	19	27	40	78	27	19	32	16
7	27	21	32	21	18	27	43	72	31	18	27	15
8	27	20	31	21	18	28	38	64	50	18	22	16
9	86	20	31	20	17	27	37	60	61	18	19	39
10	167	21	30	20	17	27	42	56	221	18	19	94
11	167	22	30	19	17	27	60	76	375	18	29	71
12	131	23	30	19	17	26	100	105	319	18	33	51
13	91	29	29	19	17	26	130	86	216	18	31	50
14	66	29	29	19	17	25	120	92	127	23	23	44
15	54	27	29	19	17	25	140	99	93	19	20	36
16	47	27	29	19	17	24	180	83	78	19	55	31
17	42	25	28	19	17	24	220	68	70	20	45	26
18	39	25	28	19	17	24	250	57	66	25	31	24
19	37	26	28	19	18	24	250	50	55	22	22	23
20	35	29	28	19	18	24	280	44	46	19	19	22
21	34	55	28	20	18	23	320	43	43	18	18	20
22	32	65	28	20	19	23	380	51	37	20	18	19
23	32	46	28	20	19	23	300	50	33	19	18	19
24	30	40	27	20	19	23	230	47	31	19	17	19
25	29	39	27	20	19	22	190	43	28	60	16	20
26	29	41	27	21	19	22	160	38	25	65	26	20
27	27	56	27	21	18	22	130	36	22	36	36	19
28	36	54	28	21	18	22	130	34	20	24	23	19
29	48	45	28	21	------	22	90	34	21	19	19	19
30	44	43	27	21	------	22	66	33	24	19	18	27
31	41	------	27	21	------	22	------	51	------	19	34	------
TOTAL	1,589	1,034	922	641	511	740	4,067	1,948	2,305	716	891	861
MEAN	51.3	34.5	29.7	20.7	18.3	23.9	136	62.8	76.8	23.1	28.7	28.7
MAX	167	65	39	26	21	28	380	105	375	65	77	94
MIN	27	20	27	19	17	19	24	33	20	18	16	15
CFSM	1.36	.91	.79	.55	.48	.63	3.60	1.66	2.03	.61	.76	.76
IN.	1.56	1.02	.91	.63	.50	.73	4.00	1.92	2.27	.70	.88	.85

CAL YR 1973 TOTAL 21,687 MEAN 59.4 MAX 340 MIN 14 CFSM 1.57 IN 21.34
WTR YR 1974 TOTAL 16,225 MEAN 44.5 MAX 380 MIN 15 CFSM 1.18 IN 15.97

NOTE.--NO GAGE-HEIGHT RECORD DEC. 25 TO MAY 11.

05358500 FLAMBEAU RIVER AT BABBS ISLAND, NEAR WINTER, WIS.

LOCATION.--LAT 45°46'07", LONG 90°45'41", IN SE 1/4 SEC.17, T.38 N., R.3 W., SAWYER COUNTY, ON RIGHT BANK 3.6 MI (5.8 KM) UPSTREAM FROM CONNORS CREEK, 11.5 MI (18.5 KM) UPSTREAM FROM SOUTH FORK FLAMBEAU RIVER, 13 MI (21 KM) EAST OF WINTER, AND AT MILE 61.9 (99.6 KM).

DRAINAGE AREA.--1,000 MI^2 (2,590 KM^2).

PERIOD OF RECORD.--AUGUST 1929 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,330 FT (405 M), FROM RIVER PROFILE MAP. PRIOR TO OCT. 1, 1934, AT BRIDGE 300 FT (91 M) UPSTREAM AT DATUM 9.0 FT (2.7 M) LOWER. OCT. 1, 1934, TO SEPT. 8, 1938, AT BRIDGE 300 FT (91 M) UPSTREAM AT PRESENT DATUM.

AVERAGE DISCHARGE.--45 YEARS, 991 FT^3/S (28.07 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,240 FT^3/S (91.8 M^3/S) APR. 22, GAGE HEIGHT, 4.28 FT (1.304 M); MAXIMUM GAGE HEIGHT, 4.61 FT (1.405 M) DEC. 8, BACKWATER FROM ICE; MINIMUM DISCHARGE, 502 FT^3/S (14.2 M^3/S) JULY 14, GAGE HEIGHT, 1.17 FT (0.357 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 9,440 FT^3/S (267 M^3/S) JUNE 25, 1946, GAGE HEIGHT, 9.45 FT (2.880 M); MINIMUM, 86 FT^3/S (2.44 M^3/S) OCT. 21, 22, 1948, GAGE HEIGHT, 0.20 FT (0.061 M); MINIMUM DAILY, 118 FT^3/S (3.34 M^3/S) OCT. 10, 1948.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS OF BACKWATER FROM VEGETATION, WHICH ARE FAIR. FLOW REGULATED BY REST LAKE AND FLAMBEAU FLOWAGE RESERVOIRS (SEE P. 102).

REVISIONS (WATER YEARS).--WSP 855: 1935-36. WSP 1175: DRAINAGE AREA. WSP 1508: 1930.

RATING TABLE EXCEPT PERIODS OF BACKWATER FROM VEGETATION (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 2 TO APR. 13.)

1.4	628	3.0	1,850
2.0	1,020	4.0	2,900
2.5	1,420	5.0	4,110

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	992	944	1,070	880	740	660	880	839	1,360	919	840	901
2	1,000	1,130	1,000	880	720	680	940	776	971	856	879	842
3	914	848	980	860	660	700	1,100	890	1,080	821	1,100	801
4	907	973	980	860	640	740	1,200	859	985	980	1,340	842
5	987	916	980	860	660	760	1,500	689	1,000	921	1,090	856
6	926	898	980	820	660	800	1,400	814	960	806	980	796
7	890	883	900	800	680	860	1,500	730	973	875	946	796
8	887	877	840	800	680	900	1,500	862	1,160	889	939	811
9	1,060	861	880	780	680	940	1,600	770	1,350	827	946	960
10	1,760	891	900	760	680	960	1,700	689	2,350	862	986	1,480
11	1,550	814	920	740	700	960	1,800	854	2,850	943	925	1,480
12	1,520	855	960	740	700	960	1,900	1,460	2,630	911	946	1,340
13	1,380	874	960	730	700	980	2,000	1,210	2,260	866	904	1,440
14	1,360	945	960	740	680	980	1,970	1,270	1,730	765	986	1,280
15	1,250	920	960	740	680	960	1,710	1,540	1,750	1,100	949	1,260
16	1,100	1,180	960	740	680	960	1,680	1,360	1,490	907	1,320	1,150
17	1,040	939	960	760	680	940	2,250	1,260	1,420	855	1,330	1,140
18	933	946	960	780	700	920	2,510	1,130	1,350	975	1,170	1,020
19	894	962	940	780	700	900	2,640	1,100	1,190	909	1,090	1,010
20	931	958	940	760	680	860	2,090	956	1,200	877	1,000	987
21	872	1,110	940	760	680	840	2,290	1,050	1,300	923	946	974
22	905	1,280	940	760	640	820	3,070	1,080	983	867	911	966
23	1,030	1,330	940	740	640	800	2,920	1,100	970	887	904	944
24	968	1,190	920	740	640	800	2,360	940	931	973	815	901
25	947	1,240	920	740	640	800	1,800	1,070	963	1,030	868	941
26	988	1,120	900	740	640	780	1,420	1,030	894	1,100	918	891
27	898	1,200	900	760	660	780	1,300	1,050	991	898	918	890
28	1,200	1,240	880	740	660	780	1,250	929	912	869	1,010	907
29	1,070	1,240	880	720	------	780	1,080	1,020	899	889	868	891
30	1,090	1,120	880	740	------	800	1,000	986	927	838	842	937
31	916	------	880	740	------	820	------	1,040	------	813	829	------
TOTAL	33,165	30,684	29,010	23,990	18,900	26,220	52,360	31,353	39,829	27,951	30,495	30,434
MEAN	1,070	1,023	936	774	675	846	1,745	1,011	1,328	902	984	1,014
MAX	1,760	1,330	1,070	880	740	980	3,070	1,540	2,850	1,100	1,340	1,480
MIN	872	814	840	720	640	660	880	689	894	765	815	796

CAL YR 1973 TOTAL 508,312 MEAN 1,393 MAX 5,360 MIN 792
WTR YR 1974 TOTAL 374,391 MEAN 1,026 MAX 3,070 MIN 640

NOTE.--BACKWATER FROM AQUATIC VEGETATION JULY 15 TO SEPT. 30.

05359500 SOUTH FORK FLAMBEAU RIVER NEAR PHILLIPS, WIS.

LOCATION.--LAT 45°42'08", LONG 90°36'58", IN NW 1/4 SW 1/4 SEC.10, T.37 N., R.2 W., PRICE COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF BRIDGE ON COUNTY TRUNK HIGHWAY W, 0.4 MI (0.6 KM) DOWNSTREAM FROM BIG ELK RIVER AND 12 MI (19 KM) WEST OF PHILLIPS.

DRAINAGE AREA.--615 MI^2 (1,593 KM^2).

PERIOD OF RECORD.--AUGUST 1929 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,360 FT (415 KM), BY BAROMETER. PRIOR TO JAN. 11, 1954, NONRECORDING GAGE AT SITE 600 FT (183 M) DOWNSTREAM AT SAME DATUM. JAN. 12, 1954, TO SEPT. 4, 1968, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--45 YEARS, 594 FT^3/S (16.82 M^3/S), 13.12 IN/YR (333 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,560 FT^3/S (101 M^3/S) JUNE 11, GAGE HEIGHT, 9.83 FT (2.996 M); MINIMUM, 154 FT^3/S (4.36 M^3/S) JULY 11, GAGE HEIGHT, 4.94 FT (1.506 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 10,200 FT^3/S (289 M^3/S) JUNE 18, 1943, GAGE HEIGHT, 14.32 FT (4.365 M); MINIMUM, 39 FT^3/S (1.10 M /S) AUG. 31, SEPT. 3-5, 1933.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 975: 1934. WSP 1175: DRAINAGE AREA. WSP 1308: 1931-34(M), 1936-42(M), 1944-45(M), 1947-50(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED AUG. 21 TO SEPT. 9; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 2 TO MAR. 15.)

4.9	160	8.0	1,880
5.5	364	9.0	2,780
6.0	580	10.0	3,730
7.0	1,140		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	606	527	300	280	310	327	1,160	868	319	198	255
2	599	583	520	290	270	300	307	1,080	823	315	233	249
3	560	555	500	280	260	300	319	1,130	681	303	413	239
4	657	481	430	280	260	300	335	1,120	579	290	676	230
5	721	397	370	280	250	320	365	1,070	521	276	746	223
6	738	333	390	280	260	340	434	1,000	484	263	726	215
7	690	314	450	280	260	380	440	937	515	242	691	210
8	612	303	490	280	260	430	468	846	896	228	637	208
9	794	310	480	280	260	470	475	764	1,250	217	512	299
10	1,100	318	470	270	260	500	558	710	2,770	204	430	670
11	1,050	321	450	270	260	520	779	925	3,500	182	422	935
12	953	318	410	260	260	520	1,580	1,190	3,170	170	422	950
13	844	299	380	260	270	520	3,060	1,240	2,570	169	409	912
14	762	295	340	250	270	500	3,250	1,330	1,640	215	384	837
15	688	292	300	250	270	480	2,970	1,510	1,420	204	364	754
16	623	295	290	250	280	466	2,860	1,550	1,370	192	637	655
17	574	303	280	260	280	449	2,770	1,480	1,250	201	716	555
18	535	314	280	260	280	434	2,510	1,360	1,030	211	632	483
19	522	333	280	260	280	423	2,330	1,260	867	208	534	457
20	493	356	290	270	280	419	2,320	1,090	811	201	482	434
21	438	401	300	270	290	407	2,560	746	784	195	453	420
22	400	447	310	270	320	406	2,810	757	721	192	404	396
23	367	499	320	280	340	427	2,880	712	656	192	377	377
24	340	543	330	280	370	430	2,570	694	613	201	358	346
25	331	594	350	290	350	354	2,210	677	562	299	330	331
26	322	647	350	290	340	330	1,870	640	447	318	276	322
27	327	691	350	290	330	324	1,630	604	391	284	301	315
28	453	694	350	290	320	322	1,470	569	319	253	309	303
29	566	646	350	290	------	320	1,320	550	289	233	289	304
30	632	587	320	290	------	332	1,230	509	314	214	267	302
31	637	------	300	280	------	318	------	658	------	201	263	------
TOTAL	18,982	13,075	11,557	8,530	8,010	12,351	49,007	29,868	32,111	7,192	13,891	13,186
MEAN	612	436	373	275	286	398	1,634	963	1,070	232	448	440
MAX	1,100	694	527	300	370	520	3,250	1,550	3,500	319	746	950
MIN	322	292	280	250	250	300	307	509	289	169	198	208
CFSM	1.00	.71	.61	.45	.47	.65	2.66	1.57	1.74	.38	.73	.72
IN.	1.15	.79	.70	.52	.48	.75	2.96	1.81	1.94	.44	.84	.80

CAL YR 1973 TOTAL 333,425 MEAN 913 MAX 5,360 MIN 201 CFSM 1.48 IN 20.17
WTR YR 1974 TOTAL 217,760 MEAN 597 MAX 3,500 MIN 169 CFSM .97 IN 13.17

05360500 FLAMBEAU RIVER NEAR BRUCE, WIS.

LOCATION.--LAT 45°22'21", LONG 91°12'34", IN LOT 7 OF NW 1/4 SEC.2, T.33 N., R.7 W., RUSK COUNTY, ON RIGHT BANK 2.5 MI (4.0 KM) DOWNSTREAM FROM THORNAPPLE POWERPLANT, 6.0 MI (9.7 KM) UPSTREAM FROM MOUTH, AND 7.0 MI (11.3 KM) SOUTHEAST OF BRUCE.

DRAINAGE AREA.--1,897 MI^2 (4,913 KM^2).

PERIOD OF RECORD.--AUGUST 1951 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE, 1,060 FT (323 M), BY RIVER SURVEY, WSP 417.

AVERAGE DISCHARGE.--23 YEARS, 1,844 FT^3/S (52.22 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 8,250 FT^3/S (234 M^3/S) JUNE 12, GAGE HEIGHT, 7.27 FT (2.216 M); MINIMUM, 786 FT^3/S (22.3 M^3/S) MAR. 30, 31, APR. 2, GAGE HEIGHT, 2.97 FT (0.905 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE, 17,400 FT^3/S (493 M^3/S) MAY 1, 1954, GAGE HEIGHT, 10.90 FT (3.322 M); MINIMUM, ABOUT 100 FT^3/S (2.83 M^3/S) AUG. 7, 9, 1957, GAGE HEIGHT, 2.06 FT (0.628 M).

REMARKS.--RECORDS GODD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. FLOW REGULATED BY SEVERAL POWERPLANTS ABOVE STATION AND BY REST LAKE AND FLAMBEAU FLOWAGE RESERVOIRS (SEE P. 102).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTEO BY ICE DEC. 9 TO MAR. 27.)

3.1	905	5.0	3,480
3.4	1,210	6.0	5,420
3.7	1,550	8.0	10,000
4.0	1,930		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	1,790	1,100	1,200	1,200	980	1,170	2,420	2,180	1,430	1,270	1,200
2	2,080	1,620	1,400	1,100	1,100	1,100	1,110	2,200	2,580	1,340	1,300	1,300
3	1,510	1,920	1,900	1,200	1,000	960	1,520	2,380	2,120	1,330	1,700	1,200
4	1,430	2,280	1,600	1,200	1,100	1,100	2,040	2,200	1,830	1,270	2,000	1,200
5	1,790	1,470	1,400	1,300	1,100	1,100	1,990	2,440	1,840	1,200	2,200	1,200
6	2,180	1,340	1,300	1,300	1,000	1,200	2,150	2,230	1,680	1,280	2,300	1,200
7	2,380	1,320	1,500	1,200	1,100	1,200	1,950	1,710	1,730	1,320	2,100	1,100
8	1,590	1,580	1,600	1,200	1,100	1,300	1,870	2,060	1,900	1,250	2,000	1,100
9	1,350	1,360	1,100	1,200	1,100	1,400	1,730	1,870	2,890	1,010	1,800	1,300
10	2,920	1,270	1,400	1,100	1,000	1,400	1,950	1,840	5,310	1,090	1,700	1,900
11	3,350	1,160	1,900	1,100	920	1,500	3,020	1,760	7,970	1,040	1,500	2,400
12	2,640	930	1,600	1,100	980	1,500	4,030	2,760	7,000	1,080	1,600	2,600
13	2,480	1,270	1,400	1,100	1,000	1,500	4,910	3,400	5,850	1,280	1,500	2,500
14	2,500	1,110	1,300	1,100	1,100	1,500	6,920	3,290	4,880	1,270	1,500	2,150
15	2,060	1,150	1,500	1,100	1,000	1,500	6,010	3,350	3,730	1,180	1,600	2,640
16	1,790	1,140	1,600	1,100	920	1,600	5,040	3,440	3,060	1,160	1,700	1,880
17	1,770	1,370	1,500	1,100	1,000	1,500	5,580	3,460	3,240	1,110	2,000	1,650
18	1,800	1,680	1,300	1,100	1,000	1,500	6,120	3,090	3,230	1,200	2,300	1,430
19	1,790	1,650	1,300	1,200	1,100	1,500	5,890	2,750	2,380	1,070	2,100	1,610
20	1,540	1,610	1,400	1,200	1,100	1,400	5,460	2,610	2,370	1,160	1,690	1,480
21	1,640	1,770	1,400	1,200	1,000	1,300	5,270	2,200	2,370	1,140	1,760	1,260
22	1,310	1,760	1,400	1,100	1,000	1,300	6,930	2,560	2,020	1,230	1,550	1,320
23	1,260	1,840	1,300	1,100	1,000	1,400	6,880	2,230	2,030	1,190	1,480	1,530
24	1,330	2,480	1,400	1,100	1,000	1,300	6,280	1,930	1,570	1,200	1,290	1,480
25	1,370	2,040	1,300	1,100	1,000	1,200	4,720	1,770	1,620	1,520	1,280	1,220
26	1,360	1,960	1,300	1,100	1,000	1,300	4,160	2,130	1,660	1,830	1,370	1,240
27	1,650	2,410	1,300	1,000	980	1,200	3,860	2,010	1,600	1,660	1,290	1,240
28	1,780	2,030	1,300	1,100	960	1,140	3,280	1,750	1,400	1,500	1,300	1,240
29	1,510	2,570	1,300	1,100	------	1,190	3,060	1,680	1,240	1,060	1,200	1,160
30	1,790	2,140	1,300	1,000	------	1,100	2,820	1,870	1,260	1,150	1,200	1,160
31	2,200	------	1,300	1,100	------	1,020	------	1,920	------	1,160	1,200	------
TOTAL	58,160	50,020	43,700	35,200	28,860	40,190	117,720	73,310	84,540	38,710	50,780	45,890
MEAN	1,876	1,667	1,410	1,135	1,031	1,296	3,924	2,365	2,818	1,249	1,638	1,530
MAX	3,350	2,570	1,900	1,300	1,200	1,600	6,930	3,460	7,970	1,830	2,300	2,640
MIN	1,260	930	1,100	1,000	920	960	1,110	1,680	1,240	1,010	1,200	1,100

CAL YR 1973 TOTAL 947,964 MEAN 2,597 MAX 11,600 MIN 930
WTR YR 1974 TOTAL 667,080 MEAN 1,828 MAX 7,970 MIN 920

05362000 JUMP RIVER AT SHELDON, WIS.

LOCATION.--LAT 45°18'29", LONG 90°57'23", IN SEC.26, T.33 N., R.5 W., RUSK COUNTY ON RIGHT BANK JUST DOWNSTREAM FROM HIGHWAY BRIDGE IN SHELDON, 1,500 FT (460 M) UPSTREAM FROM SHOULDER CREEK AND 11 MI (18 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--574 MI^2 (1,487 KM^2).

PERIOD OF RECORD.--JULY 1915 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,092.75 FT (33.070 M) ABOVE MEAN SEA LEVEL. PRIOR TO FEB. 9, 1939, AND SEPT. 1, 1941 TO APR. 1, 1953, FEB. 18, 1954 TO SEPT. 27, 1964, NONRECORDING GAGE AT SAME SITE AND DATUM. APR. 2, 1953 TO FEB. 18, 1954, NONRECORDING GAGE IN CREAMERY WELLHOUSE 400 FT (122 M) UPSTREAM AT SAME DATUM. FEB. 9, 1939 TO AUG. 31, 1941, AND FROM SEPT. 27, 1964, WATER-STAGE RECORDER AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--59 YEARS, 515 FT^3/S (14.58 M^3/S), 12.18 IN/YR (309 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 6,580 FT^3/S (186 M^3/S) JUNE 11, GAGE HEIGHT, 9.81 FT (2.990 M); MINIMUM, 42 FT^3/S (1.25 M^3/S) SEPT. 6, GAGE HEIGHT, 3.30 FT (1.006 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE OBSERVED, 46,000 FT^3/S (1,300 M^3/S) AUG. 31, 1941, GAGE HEIGHT, 18.8 FT (5.73 M) FROM FLOODMARK, FROM RATING CURVE EXTENDED ABOVE 13,000 FT^3/S (368 M^3/S) ON BASIS OF CONTRACTED-OPENING MEASUREMENT OF PEAK FLOW; MINIMUM OBSERVED, 11 FT^3/S (0.31 M^3/S) DEC. 18, 1943, GAGE HEIGHT, 3.99 FT (1.216 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 975: 1938. WSP 1175: DRAINAGE AREA. WSP 1438: 1916-17(M), 1919(M), 1920, 1921(M), 1922, 1923-26(M), 1927, 1928-31(M), 1932, 1933-37(M), 1945-46(M), 1948-50(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 1 TO APR. 2.)

3.3	42	5.0	600
3.4	58	6.0	1,230
3.6	94	7.0	2,130
4.0	184	9.0	4,880
4.5	362	10.0	6,900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	342	310	96	98	86	260	452	680	107	76	47
2	287	307	300	94	96	92	280	390	620	105	78	47
3	240	278	280	92	96	100	640	371	488	110	102	47
4	228	246	270	90	96	110	1,200	426	395	95	166	48
5	236	170	260	90	94	120	1,500	418	338	81	314	49
6	215	160	250	90	94	320	1,900	399	282	74	278	47
7	188	150	240	90	94	600	2,600	361	260	67	214	48
8	173	150	230	90	94	1,200	2,300	319	724	63	164	46
9	161	160	220	90	94	1,000	2,320	285	1,590	61	141	55
10	193	160	210	92	94	940	2,400	254	4,950	57	132	174
11	311	150	210	92	92	880	3,130	457	5,960	54	121	814
12	326	142	200	92	92	880	4,230	1,150	4,000	54	136	706
13	292	143	190	92	92	920	5,830	1,150	2,500	57	169	588
14	250	145	190	92	90	1,100	5,680	1,200	1,580	61	158	537
15	222	150	180	94	90	980	4,150	1,720	1,120	63	132	425
16	206	140	170	94	90	840	2,850	1,650	885	74	115	315
17	181	140	170	94	88	740	2,080	1,280	730	70	105	243
18	162	150	160	94	88	660	1,650	964	630	65	132	200
19	159	150	160	94	88	560	1,390	742	537	62	118	168
20	146	151	150	94	86	520	1,180	615	443	60	99	146
21	140	189	140	94	86	460	1,240	537	366	58	89	128
22	133	417	130	92	86	420	1,470	571	307	56	79	114
23	130	518	120	92	84	380	1,400	820	246	52	72	103
24	121	448	120	94	84	340	1,250	778	203	53	67	96
25	114	400	110	94	84	300	1,060	635	175	64	63	92
26	110	381	110	96	82	280	893	497	148	268	58	85
27	107	438	110	96	82	260	755	407	133	448	56	84
28	136	616	100	98	84	240	676	354	122	246	54	84
29	326	551	100	98	------	220	610	322	115	154	52	83
30	452	447	100	98	------	220	534	307	109	114	48	83
31	399	------	98	98	------	240	------	412	------	89	47	------
TOTAL	6,707	7,989	5,588	2,896	2,518	16,008	57,458	20,243	30,636	3,042	3,635	5,702
MEAN	216	266	180	93.4	89.9	516	1,915	653	1,021	98.1	117	190
MAX	452	616	310	98	98	1,200	5,830	1,720	5,960	448	314	814
MIN	107	140	98	90	82	86	260	254	109	52	47	46
CFSM	.38	.46	.31	.16	.16	.90	3.34	1.14	1.78	.17	.20	.33
IN.	.43	.52	.36	.19	.16	1.04	3.72	1.31	1.99	.20	.24	.37

CAL YR 1973 TOTAL 271,914 MEAN 745 MAX 12,800 MIN 60 CFSM 1.30 IN 17.62
WTR YR 1974 TOTAL 162,422 MEAN 445 MAX 5,960 MIN 46 CFSM .78 IN 10.53

PEAK DISCHARGE (BASE, 3,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1800	9.81	6,110	6-11	0100	9.65	6,580

05365500 CHIPPEWA RIVER AT CHIPPEWA FALLS, WIS.

LOCATION.--LAT 44°55'37", LONG 91°24'33", IN LOT 1, SEC.12, T.28 N., R.9 W., CHIPPEWA COUNTY, ON RIGHT BANK AT CHIPPEWA FALLS, 1.0 MI (1.6 KM) DOWNSTREAM FROM DUNCAN CREEK.

DRAINAGE AREA.--5,600 MI^2 (14,500 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JUNE 1888 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 798.46 FT (243.371 M) ABOVE MEAN SEA LEVEL. PRIOR TO JANUARY 1914, NONRECORDING GAGE, AND JANUARY 1914 TO JUNE 19, 1932, WATER-STAGE RECORDER AT SITE 1 MI (1.6 KM) UPSTREAM AT DIFFERENT DATUM. JUNE 19, 1932, TO CURRENT YEAR, WATER-STAGE RECORDER AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--86 YEARS, 5,111 FT^3/S (144.7 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 34,200 FT^3/S (969 M^3/S) JUNE 11, GAGE HEIGHT, 14.26 FT (4.346 M); MINIMUM DAILY, 350 FT^3/S (9.91 M^3/S) SEPT. 29.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 102,000 FT^3/S (2,890 M^3/S) SEPT. 1, 1941, GAGE HEIGHT, 24.8 FT (7.56 M); MINIMUM, 22 FT^3/S (0.623 M^3/S) APR. 2, 1934, GAGE HEIGHT, 0.63 FT (0.192 M); MINIMUM DAILY, 40 FT^3/S (1.13 M^3/S) FEB. 4, 1917. A STAGE OF 26.94 FT (8.211 M) OCCURRED SEPT. 10, 1884, SITE AND DATUM IN USE TO JUNE 1932.

REMARKS.--RECORDS GOOD. CONSIDERABLE REGULATION BY MOOSE LAKE, LAKE CHIPPEWA, REST LAKE, FLAMBEAU FLOWAGE, AND LAKE WISSOTA RESERVOIRS (SEE P. 102). DIURNAL FLUCTUATION CAUSED BY HYDROELECTRIC PLANT 1.1 MI (1.8 KM) UPSTREAM.

REVISIONS (WATER YEARS).--WSP 785: 1934(M). WSP 1508: 1897, 1905, 1918(M), 1924(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

1.5	325	8.0	11,200
2.0	583	11.0	20,700
3.0	1,440	14.0	33,000
5.0	4,440		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,420	5,280	5,630	1,620	3,520	4,650	4,420	5,420	3,010	3,390	2,290	1,780
2	5,740	5,320	4,530	3,590	2,550	4,940	2,610	5,440	5,190	3,700	3,560	1,730
3	4,630	3,910	4,360	3,190	2,170	3,050	4,880	4,900	5,730	3,560	2,650	4,010
4	4,690	3,330	6,260	3,700	3,110	3,700	9,390	4,490	4,960	1,380	2,360	2,740
5	3,300	5,330	4,740	2,540	3,340	5,660	9,350	4,670	4,970	4,240	5,840	2,830
6	3,000	2,550	3,330	2,860	3,550	6,330	9,180	2,350	3,560	1,070	5,160	4,010
7	4,480	2,710	4,100	3,210	2,770	6,580	9,540	4,820	4,930	1,190	4,410	2,030
8	5,130	2,590	3,440	3,430	3,210	7,180	9,790	3,850	3,120	3,660	4,340	1,100
9	5,730	4,130	1,790	3,080	2,430	7,140	9,700	4,830	7,970	2,140	4,820	2,830
10	5,950	2,600	3,070	3,800	2,420	5,750	9,790	4,600	18,100	2,160	1,730	5,360
11	11,000	930	4,830	4,420	3,160	5,640	9,920	4,010	30,300	1,340	1,370	3,760
12	9,810	3,330	4,150	2,590	4,820	5,860	10,900	6,160	24,800	3,120	4,560	6,260
13	8,640	3,090	4,240	1,930	3,910	6,990	20,000	9,320	18,400	2,050	4,400	5,390
14	8,650	3,610	4,240	3,750	4,000	6,820	32,800	9,940	14,600	785	3,200	4,260
15	8,610	2,520	3,120	3,070	4,640	6,170	31,200	9,870	12,300	1,070	2,680	2,540
16	7,400	4,220	2,780	3,200	3,930	6,410	22,300	9,880	9,750	1,960	4,530	4,490
17	5,670	2,090	4,040	3,680	2,030	5,260	17,900	9,860	8,780	2,710	3,070	3,320
18	5,790	4,960	3,330	3,320	4,180	5,270	16,800	8,810	9,330	2,820	3,140	3,250
19	5,570	4,610	3,940	3,130	4,120	4,700	15,200	6,760	8,010	3,920	4,310	3,260
20	3,830	4,390	3,300	1,890	4,370	4,960	13,100	6,670	7,720	682	4,000	3,060
21	3,720	5,540	3,910	3,120	4,050	4,630	13,500	6,090	6,070	726	3,370	1,250
22	4,710	5,340	2,880	3,930	4,410	4,330	13,500	6,730	4,990	2,880	3,020	1,060
23	4,840	6,090	3,800	3,120	3,560	3,520	16,300	6,330	1,410	2,310	3,200	2,850
24	4,560	6,550	4,140	3,270	2,580	2,430	13,300	6,230	5,020	2,130	2,520	3,620
25	3,890	6,080	3,700	4,030	5,010	2,510	11,600	2,030	2,360	1,170	680	2,380
26	4,500	5,960	4,080	2,280	4,730	2,410	10,500	5,460	4,820	3,820	3,240	3,020
27	3,510	4,970	3,960	1,960	4,420	3,390	9,220	4,110	3,510	3,110	2,580	3,160
28	4,530	7,310	4,200	3,870	4,440	2,790	6,480	5,330	3,700	1,590	2,640	818
29	4,390	5,770	3,200	3,290	------	2,970	7,180	3,840	3,040	2,780	2,450	350
30	4,850	6,900	3,100	2,930	------	2,980	6,030	4,360	1,550	1,600	2,580	2,720
31	4,980	------	4,010	3,680	------	1,510	------	5,280	------	2,610	1,720	------
TOTAL	170,520	132,010	120,200	97,480	101,430	146,530	376,380	182,440	242,000	71,673	100,420	89,238
MEAN	5,501	4,400	3,877	3,145	3,623	4,727	12,550	5,885	8,067	2,312	3,239	2,975
MAX	11,000	7,310	6,260	4,420	5,010	7,180	32,800	9,940	30,300	4,240	5,840	6,260
MIN	3,000	930	1,790	1,620	2,030	1,510	2,610	2,030	1,410	682	680	350

CAL YR 1973 TOTAL 2,611,778 MEAN 7,156 MAX 56,200 MIN 313
WTR YR 1974 TOTAL 1,830,321 MEAN 5,015 MAX 32,800 MIN 350

05368000 HAY RIVER AT WHEELER, WIS.

LOCATION.--LAT 45°02'52", LONG 91°54'39", IN SW 1/4 SEC.25, T.30 N., R.13 W., DUNN COUNTY, ON RIGHT BANK 25 FT (7.6 M) DOWNSTREAM FROM HIGHWAY BRIDGE IN WHEELER, 1.8 MI (2.9 KM) UPSTREAM FROM OTTER CREEK, AND 2.4 MI (3.9 KM) DOWNSTREAM FROM SOUTH FORK HAY RIVER.

DRAINAGE AREA.--426 MI^2 (1,103 KM^2).

PERIOD OF RECORD.--OCTOBER 1950 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 889.30 FT (271.059 M), ABOVE MEAN SEA LEVEL. PRIOR TO MAR. 25, 1951, NONRECORDING GAGE.

AVERAGE DISCHARGE.--24 YEARS, 289 FT^3/S (8.184 M^3/S), 9.21 IN/YR (234 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,630 FT^3/S (74.5 M^3/S) APR. 14, GAGE HEIGHT, 8.64 FT (2.633 M); MINIMUM DAILY, 170 FT^3/S (4.81 M^3/S) JAN. 11.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 13,600 FT^3/S (385 M^3/S) MAR. 31, 1967, GAGE HEIGHT, 15.04 FT (4.584 M), FROM RATING CURVE EXTENDED ABOVE 9,000 FT^3/S (255 M^3/S); MINIMUM, 55 FT^3/S (1.56 M^3/S) MAR. 13, 1954, GAGE HEIGHT, 2.32 (0.707 M), RESULT OF FREEZEUP.

MAXIMUM STAGE SINCE 1915, 16.6 FT (5.06 M) APRIL 1934, FROM FLOODMARKS.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS.--WSP 1338: DRAINAGE AREA.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8 TO MAR. 4.)

OCT. 1 TO MAR. 31				APR. 1 TO SEPT. 30			
2.4	138	3.0	242	2.5	138	6.0	1,280
2.7	182	4.0	536	3.0	223	8.0	2,250
				4.0	498	9.0	2,850

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	255	262	200	230	230	378	393	297	233	179	200
2	259	249	265	200	240	240	401	380	295	230	186	199
3	256	245	266	190	240	250	745	369	290	226	226	198
4	262	243	266	190	250	280	1,500	355	287	220	249	197
5	254	241	257	180	250	300	1,560	357	288	215	223	196
6	251	237	243	180	250	364	1,190	349	286	213	271	195
7	261	242	244	180	250	482	1,310	335	301	210	253	196
8	264	238	240	180	250	518	1,400	327	332	208	219	196
9	279	234	240	180	240	426	1,160	321	354	205	209	207
10	339	238	240	180	240	434	1,180	317	520	205	204	247
11	333	242	250	170	230	464	1,380	418	668	208	217	247
12	442	240	260	180	230	473	1,730	477	476	204	223	235
13	402	251	260	180	230	488	2,230	404	383	205	217	233
14	332	254	260	180	230	475	2,440	449	340	206	202	223
15	305	250	260	180	230	415	1,500	463	318	200	198	214
16	286	245	260	180	230	375	986	411	304	200	404	209
17	274	240	260	180	260	345	816	382	293	190	615	205
18	268	237	260	190	270	333	723	354	289	190	308	201
19	264	237	250	190	270	322	647	333	303	190	255	201
20	260	251	250	200	240	311	601	323	292	190	237	198
21	257	446	240	200	230	295	593	317	287	180	233	197
22	256	442	240	200	220	282	568	392	278	180	229	195
23	256	338	240	210	220	252	528	417	265	188	221	195
24	256	306	230	210	230	297	491	345	259	188	217	199
25	254	299	230	220	240	300	467	322	253	196	213	200
26	251	294	220	220	250	271	455	310	248	208	211	196
27	249	305	220	220	240	266	443	301	244	190	208	197
28	266	290	210	220	240	261	453	288	244	184	205	196
29	269	279	210	220	------	259	441	283	240	181	203	194
30	260	273	200	220	------	266	411	278	245	180	202	192
31	258	------	200	230	------	284	------	300	------	180	202	------
TOTAL	8,687	8,141	7,533	6,060	6,730	10,558	28,727	11,070	9,479	6,203	7,439	6,158
MEAN	280	271	243	195	240	341	958	357	316	200	240	205
MAX	442	446	266	230	270	518	2,440	477	668	233	615	247
MIN	249	234	200	170	220	230	378	278	240	180	179	192
CFSM	.66	.64	.57	.46	.56	.80	2.25	.84	.74	.47	.56	.48
IN.	.76	.71	.66	.53	.59	.92	2.51	.97	.83	.54	.65	.54

CAL YR 1973 TOTAL 134,672 MEAN 369 MAX 3,610 MIN 200 CFSM .87 IN 11.76
WTR YR 1974 TOTAL 116,785 MEAN 320 MAX 2,440 MIN 170 CFSM .75 IN 10.20

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 5	0200	7.20	1,840	4-14	0600	8.64	2,630

05369000 RED CEDAR RIVER AT MENOMONIE, WIS.

LOCATION.--LAT 44°53'02", LONG 91°55'57", IN NW 1/4 SEC.26, T.28 N., R.13 W., DUNN COUNTY, ON RIGHT BANK AT MENOMONIE, 900 FT (274 M) DOWNSTREAM FROM POWERPLANT OF NORTHERN STATES POWER CO., AND 1,000 FT (305 M) DOWNSTREA FROM WILSON CREEK.

DRAINAGE AREA.--1,760 MI^2 (4,560 KM^2), APPROXIMATELY

PERIOD OF RECORD.--JUNE 1907 TO SEPTEMBER 1908, MAY 1913 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 780 FT (237.7 M) ABOVE MEAN SEA LEVEL (NORTHERN STATES POWER CO. BENCH MARK). PRIOR TO SEPT. 3, 1908, NONRECORDING GAGE AT SITE 1 MI (1.6 KM) DOWNSTREAM AT DIFFERENT DATUM. MAY 9, 1913, TO SEPT. 30, 1923, WATER-STAGE RECORDER AT SAME SITE AT DATUM 0.42 FT (0.128 M) LOWER THAN PRESENT DATUM.

AVERAGE DISCHARGE.--62 YEARS, 1,237 FT^3/S (35.03 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 9,740 FT^3/S (276 M^3/S) APR. 14, GAGE HEIGHT, 6.26 FT (1.908 M); MINIMUM, 155 FT^3/S (4.39 M^3/S) AUG. 21, GAGE HEIGHT, 0.88 FT (0.268 M); MINIMUM DAILY, 632 FT^3/S (17.9 M^3/S) JULY 20.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 40,000 FT^3/S (1,133 M^3/S) APR. 4, 1934, GAGE HEIGHT, 16.0 FT (4.88 M), FROM FLOODMARKS, FROM RATING CURVE EXTENDED ABOVE 27,000 FT^3/S (765 M^3/S) ON BASIS OF COMPUTED FLOW OVER CEDAR FALLS DAM 6 MI (10 KM) UPSTREAM; MINIMUM, 21 FT^3/S (0.59 M^3/S) DEC. 9, 1928, GAGE HEIGHT, 0.65 FT (0.198 M).

REMARKS.--RECORDS GOOD. FLOW REGULATED BY POWERPLANTS AT MENOMONIE AND CEDAR FALLS.

REVISIONS (WATER YEARS).--WSP 805: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

1.7	616	4.0	3,990
2.0	940	6.0	8,910
3.0	2,390		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	1,430	1,300	895	963	1,070	1,840	1,840	1,440	1,060	765	797
2	1,180	1,270	1,230	850	986	1,070	1,470	1,700	1,370	986	829	723
3	1,340	1,190	1,330	986	998	1,110	2,580	1,730	1,430	1,010	775	861
4	1,310	1,200	1,430	1,020	1,010	1,220	3,210	1,530	1,270	1,110	906	702
5	1,270	1,160	1,080	952	1,030	1,340	3,030	1,540	1,280	1,070	1,100	786
6	1,300	1,310	940	975	1,060	1,920	3,280	1,530	1,150	786	929	895
7	1,230	1,130	952	906	1,030	2,290	3,300	1,560	1,350	1,090	1,150	807
8	1,400	1,380	850	1,280	1,040	2,140	3,270	1,430	1,510	963	1,090	754
9	1,560	908	1,270	917	998	1,990	3,240	1,820	1,900	872	986	963
10	1,420	1,150	1,070	963	1,070	1,760	3,190	1,470	3,110	1,040	1,020	1,180
11	1,640	1,300	829	998	1,080	1,860	3,250	1,700	3,250	872	1,080	1,160
12	1,660	1,350	1,090	906	1,030	1,990	3,630	2,000	2,390	986	1,070	1,180
13	1,620	1,250	1,170	906	1,060	2,060	5,270	2,180	2,740	807	1,090	1,120
14	1,650	1,260	1,070	895	1,010	2,140	7,470	2,120	2,390	765	1,010	1,170
15	1,560	1,220	1,110	1,030	1,120	1,920	6,680	2,240	2,290	786	952	1,170
16	1,500	1,180	986	906	998	1,790	4,930	2,280	1,700	917	1,570	1,110
17	1,470	1,180	1,020	1,020	986	1,510	4,070	1,730	1,870	818	1,510	1,110
18	1,370	1,130	1,070	1,060	1,030	1,600	3,580	1,740	1,600	754	1,270	906
19	1,450	1,260	1,070	1,030	1,080	1,430	3,250	1,480	1,740	884	1,170	1,120
20	1,410	1,430	1,070	986	1,040	1,330	2,990	1,480	1,500	632	1,090	952
21	1,400	1,660	906	1,080	1,180	1,310	2,950	1,470	1,470	743	998	1,010
22	1,360	1,820	1,060	1,080	1,040	1,110	2,850	1,680	1,350	786	906	733
23	1,400	1,550	1,110	1,100	1,060	975	2,770	1,570	1,280	672	952	1,060
24	1,310	1,450	1,180	1,150	850	818	2,650	1,540	1,220	829	952	1,040
25	1,430	1,320	1,150	1,040	917	1,010	2,370	1,470	1,120	642	840	906
26	1,300	1,530	1,170	1,080	1,070	1,180	2,060	1,410	1,270	829	929	906
27	1,280	1,330	1,250	1,120	1,100	1,480	1,020	1,310	1,110	672	818	1,140
28	1,360	1,420	1,250	1,080	1,040	1,170	662	1,350	1,060	652	872	829
29	1,420	1,450	1,110	1,170	------	1,210	1,380	1,350	1,090	642	712	895
30	1,320	1,300	895	1,210	------	1,230	1,810	1,430	1,100	672	807	975
31	1,210	------	917	998	------	1,070	------	1,330	------	733	807	------
TOTAL	43,480	39,518	33,935	31,589	28,876	46,103	94,052	51,010	49,350	26,080	30,955	28,960
MEAN	1,403	1,317	1,095	1,019	1,031	1,487	3,135	1,645	1,645	841	999	965
MAX	1,660	1,820	1,430	1,280	1,180	2,290	7,470	2,280	3,250	1,110	1,570	1,180
MIN	1,180	908	829	850	850	818	662	1,310	1,060	632	712	702

CAL YR 1973 TOTAL 639,946 MEAN 1,753 MAX 10,800 MIN 746
WTR YR 1974 TOTAL 503,908 MEAN 1,381 MAX 7,470 MIN 632

05369500 CHIPPEWA RIVER AT DURAND, WIS.

LOCATION.--44°37'40", LONG 91°58'10", IN SW 1/4 SEC.21, T.25 N., R.13 W., PEPIN COUNTY, ON LEFT BANK IN DURAND, 75 FT (23 M) DOWNSTREAM FROM BRIDGE ON U.S. HIGHWAY 10, AND 9.5 MI (15.3 KM) DOWNSTREAM FROM RED CEDAR RIVER.

DRAINAGE AREA.--9,010 MI^2 (23,340 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JULY 1928 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 694.59 FT (211.711 M) ABOVE MEAN SEA LEVEL. PRIOR TO DEC. 9, 1930, NONRECORDING GAGE AT BRIDGE 400 FT (122 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--46 YEARS, 7,507 FT^3/S (212.6 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 41,100 FT^3/S (1,164 M^3/S) APR. 16, GAGE HEIGHT, 11.06 FT (3.371 M); MINIMUM DAILY, 3,080 FT^3/S (87.2 M^3/S) SEPT. 30

PERIOD OF RECORD: MAXIMUM DISCHARGE, 123,000 FT^3/S (3,483 M^3/S) APR. 2, 1967, GAGE HEIGHT, 16.93 FT (5.160 M); MINIMUM OBSERVED, 1,020 FT^3/S (28.9 M^3/S) NOV. 24, 1950, GAGE HEIGHT, 0.12 FT (0.037 M).

A STAGE OF 18.4 FT (5.61 M) OCCURRED SEPT. 12, 1884, AND HAS NOT BEEN EXCEEDED SINCE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR. FLOW REGULATED BY POWERPLANTS, MOOSE LAKE, LAKE CHIPPEWA, REST LAKE, FLAMBEAU FLOWAGE, AND LAKE WISSOTA ON CHIPPEWA AND FLAMBEAU RIVERS (SEE P. 102). RECORDS OF SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

REVISIONS (WATER YEARS).--WSP 785: 1930, 1934(M). WSP 875: 1930 (MONTHLY AND YEARLY RUNOFF). WSP 925: 1938. WSP 1508: 1929(M), 1932.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 17 TO MAR. 5.)

0.5	2,780	5.0	13,600
1.0	3,480	8.0	25,000
2.0	5,350	11.0	40,700
3.0	7,820		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,070	7,490	8,680	6,000	5,800	7,000	5,560	9,320	7,790	4,630	3,890	3,200
2	7,190	7,540	7,540	5,600	5,600	7,400	7,610	8,730	6,420	5,390	4,080	3,620
3	7,470	7,040	7,010	5,400	5,200	7,600	8,530	8,720	8,020	5,980	4,880	3,330
4	7,850	6,180	7,030	5,400	4,400	9,000	15,900	7,850	8,350	5,660	4,500	5,090
5	6,930	6,170	8,770	6,000	5,200	11,000	18,700	7,670	7,440	4,490	4,660	4,390
6	5,820	6,660	6,340	5,400	5,200	14,600	19,300	8,070	7,600	5,780	7,610	4,650
7	5,600	5,100	5,800	5,200	5,600	19,000	20,200	8,180	6,700	4,110	6,690	5,020
8	7,140	5,180	5,980	5,400	5,000	18,000	19,900	7,830	7,310	3,700	6,590	4,190
9	7,480	4,320	5,460	5,600	5,200	14,400	20,200	6,960	7,180	4,990	6,100	3,410
10	8,160	5,730	4,470	5,400	4,700	12,300	20,300	8,090	17,200	4,890	6,850	4,730
11	9,270	4,930	5,010	6,200	4,500	9,920	18,600	7,940	26,100	4,260	4,370	6,420
12	13,500	4,090	6,700	6,600	5,800	10,900	18,300	8,360	32,600	4,490	3,650	6,240
13	11,200	4,790	6,360	6,200	7,200	10,400	21,200	10,400	29,100	4,470	5,900	8,010
14	11,000	5,210	6,230	4,800	6,800	11,100	31,000	13,700	22,900	3,990	6,110	6,970
15	11,000	5,650	6,720	5,800	6,400	11,100	39,400	14,300	19,600	3,430	5,010	6,310
16	10,400	4,820	5,480	5,400	7,000	10,100	39,100	14,200	15,200	3,370	5,450	5,140
17	8,980	5,870	5,000	5,400	6,400	9,920	29,200	14,400	13,500	3,540	6,330	6,080
18	8,270	4,560	6,200	5,800	5,000	8,320	24,200	13,800	13,000	4,240	5,820	5,970
19	8,270	6,820	6,000	5,800	6,400	8,860	22,900	11,000	12,400	5,120	5,250	4,870
20	7,580	6,700	6,200	5,600	6,600	7,830	19,400	10,100	11,800	4,970	6,280	5,220
21	6,420	7,000	6,000	5,000	6,800	7,880	18,600	9,900	11,100	3,290	6,160	4,990
22	6,360	8,550	6,000	5,400	6,800	7,330	18,400	10,300	9,870	3,130	5,380	3,560
23	7,170	7,860	5,800	6,200	6,800	6,740	18,600	9,980	8,380	3,750	5,070	3,150
24	6,900	8,550	6,200	6,000	6,600	6,140	21,200	9,470	5,350	3,940	4,900	4,670
25	6,530	8,990	6,600	5,600	5,600	4,910	16,500	8,630	7,420	3,920	4,710	5,010
26	6,310	8,320	6,400	6,200	7,200	5,290	15,500	6,100	5,820	3,320	3,130	4,640
27	6,470	8,240	6,600	6,000	7,400	5,240	12,800	8,100	6,900	4,730	4,540	4,840
28	6,120	7,860	6,800	4,500	7,200	5,920	11,200	7,100	6,370	4,650	4,400	5,030
29	6,760	8,920	7,000	6,200	------	5,660	9,410	7,740	5,870	3,690	4,080	3,110
30	6,850	8,460	6,600	6,000	------	5,620	10,800	6,800	5,800	3,560	4,360	3,080
31	7,020	------	5,800	5,600	------	5,920	------	7,120	------	4,020	4,670	------
TOTAL	245,090	197,600	196,780	175,700	168,400	285,400	572,510	290,860	353,090	133,500	161,420	144,940
MEAN	7,906	6,587	6,348	5,668	6,014	9,206	19,080	9,383	11,770	4,306	5,207	4,831
MAX	13,500	8,990	8,770	6,600	7,400	19,000	39,400	14,400	32,600	5,980	7,610	8,010
MIN	5,600	4,090	4,470	4,500	4,400	4,910	5,560	6,100	5,350	3,130	3,130	3,080

CAL YR 1973 TOTAL 3,869,180 MEAN 10,600 MAX 71,900 MIN 2,960
WTR YR 1974 TOTAL 2,925,290 MEAN 8,014 MAX 39,400 MIN 3,080

05370000 EAU GALLE RIVER AT SPRING VALLEY, WIS.

LOCATION.--LAT 44°51'10", LONG 92°14'17", IN SE 1/4 NE 1/4 SEC.6, T.27 N., R.15 W., PIERCE COUNTY, ON RIGHT BANK, AT SPRING VALLEY, 1,500 FT (460 M) UPSTREAM FROM MINES CREEK.

DRAINAGE AREA.--64.8 MI^2 (167.8 KM^2).

PERIOD OF RECORD.--MARCH 1944 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND V-NOTCH SHARP-CRESTED WEIR. DATUM OF GAGE IS MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). PRIOR TO JULY 31, 1957, NONRECORDING GAGE AT SITE 850 FT (260 M) DOWNSTREAM AT DATUM OF 912.45 FT (278.115 M) ABOVE MEAN SEA LEVEL. AUG. 1, 1957, TO JUNE 6, 1966, NONRECORDING GAGE AT DOWNSTREAM SITE AT DATUM OF 910.45 FT (277.505 M) ABOVE MEAN SEA LEVEL. JUNE 7, 1966, TO OCT. 31, 1968, NONRECORDING GAGE AT DOWNSTREAM SITE AT DATUM OF 909.45 FT (277.200 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--6 YEARS (1969-74) 28.8 FT^3/S (0.816 M^3/S), 6.04 IN/YR (153 MM/YR) SINCE OPERATION OF FLOOD-CONTROL RESERVOIR.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,440 FT^3/S (40.8 M^3/S) APR. 3, GAGE HEIGHT, 917.04 FT (279.514 M); MINIMUM, 11.0 FT^3/S (0.312 M^3/S) AUG. 29, 30, SEPT. 30, GAGE HEIGHT, 913.33 FT (278.383 M).

PERIOD OF RECORD: MAXIMUM DISCHARGE, 7,000 FT^3/S (198 M^3/S) APR. 15, 1954, GAGE HEIGHT, 12.50 FT (3.810 M), DATUM THEN IN USE; NO FLOW AUG. 11-15, 1971, FLOW SHUT OFF AT FLOOD-CONTROL DAM UPSTREAM; MINIMUM OBSERVED PRIOR TO DAM CONSTRUCTION PERIOD, 5.8 FT^3/S (0.16 M^3/S) SEPT. 25, 27, 28, 30, 1949.

MAXIMUM STAGE SINCE AT LEAST 1894, THAT OF SEPT. 18, 1942, 19.98 FT (6.090 M), WITH DATUM AT 909.45 FT (277.200 M) ABOVE MEAN SEA LEVEL, FROM FLOODMARKS, DISCHARGE, 33,000 FT^3/S (930 M^3/S) ESTIMATED BY CORPS OF ENGINEERS ON BASIS OF SLOPE-AREA MEASUREMENT BY GEOLOGICAL SURVEY OF PEAK DISCHARGE OF 39,000 FT^3/S (1,100 M^3/S) AT ELMWOOD, DRAINAGE AREA, 91.9 MI^2 (238.0 KM^2).

REMARKS.--RECORDS GOOD. LOW FLOW SLIGHTLY REGULATED AND HIGH FLOW COMPLETELY REGULATED BY FLOOD-CONTROL DAM 770 FT (235 M) UPSTREAM.

REVISIONS (WATER YEARS).--WRD WIS. 1967: 1966.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

13.4	12	14.6	131
13.7	21	15.0	251
14.0	41	15.5	472
14.3	77	16.0	760

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	16	14	15	14	137	22	19	15	12	12
2	16	15	16	15	15	14	83	22	19	15	16	12
3	16	15	16	15	14	17	511	22	23	16	23	12
4	18	15	17	14	14	25	547	20	24	15	19	12
5	15	14	19	14	17	41	238	21	21	14	15	12
6	15	14	15	14	15	174	267	20	20	14	14	12
7	16	15	15	14	14	233	276	20	21	14	14	12
8	16	15	15	14	14	109	139	20	22	14	14	13
9	21	14	16	14	14	62	77	21	27	14	13	14
10	19	14	15	14	15	46	69	22	42	16	14	15
11	21	15	15	14	15	47	63	29	47	16	16	15
12	23	15	15	13	15	45	128	27	30	16	15	16
13	25	16	16	14	14	39	287	26	23	16	13	15
14	20	16	15	14	14	36	103	36	21	16	13	13
15	18	16	15	15	14	32	58	48	21	14	13	13
16	15	15	15	15	15	28	43	38	18	13	17	12
17	15	15	15	15	14	25	36	29	18	13	15	13
18	15	15	15	15	14	23	32	24	18	14	14	13
19	16	15	15	15	14	23	30	22	19	14	13	13
20	15	20	15	16	14	22	29	22	18	13	13	12
21	15	35	15	17	16	21	29	23	19	13	14	12
22	15	40	15	15	15	21	28	24	17	13	14	12
23	16	29	15	15	14	19	26	21	16	13	13	12
24	16	24	15	15	14	19	25	20	15	13	12	12
25	15	20	17	15	14	19	25	20	15	13	12	13
26	15	20	17	15	14	21	24	20	15	14	13	12
27	15	20	17	15	14	19	25	20	15	13	12	13
28	17	18	17	15	14	19	24	20	15	13	12	13
29	16	17	16	15	------	20	23	20	15	13	12	14
30	16	16	15	15	------	22	22	20	16	12	12	14
31	16	------	14	14	------	26	------	20	------	12	12	------
TOTAL	523	543	484	454	405	1,281	3,404	739	629	434	434	388
MEAN	16.9	18.1	15.6	14.6	14.5	41.3	113	23.8	21.0	14.0	14.0	12.9
MAX	25	40	19	17	17	233	547	48	47	16	23	16
MIN	15	14	14	13	14	14	22	20	15	12	12	12
CFSM	.26	.28	.24	.23	.22	.64	1.74	.37	.32	.22	.22	.20
IN.	.30	.31	.28	.26	.23	.74	1.95	.42	.36	.25	.25	.22

CAL YR 1973 TOTAL 13,589.3 MEAN 37.2 MAX 1,020 MIN 7.6 CFSM .57 IN 7.80
WTR YR 1974 TOTAL 9,718.0 MEAN 26.6 MAX 547 MIN 12 CFSM .41 IN 5.58

RESERVOIRS IN CHIPPEWA RIVER BASIN

THE FIVE RESERVOIRS LISTED BELOW ARE USED TO STABILIZE THE FLOW OF THE CHIPPEWA AND FLAMBEAU RIVERS FOR POWER UTILIZATION, AND ARE ALSO USED FOR RECREATIONAL PURPOSES. THE FIRST FOUR ARE OPERATED BY CHIPPEWA-FLAMBEAU IMPROVEMENT CO. THE REMAINING ONE IS OPERATED BY THE NORTHERN STATES POWER CO., WHICH ALSO FURNISHES THE GAGE HEIGHTS AND CAPACITY TABLES FOR ALL THE RESERVOIRS. MONTH-END CONTENTS ARE COMPUTED BY THE GEOLOGICAL SURVEY. THE USABLE CAPACITY OF THESE RESERVOIRS IS USUALLY LESS IN SUMMER THAN THE WINTER, BECAUSE THE ALLOWABLE SUMMER DRAWDOWN IS LIMITED BY THE DEPARTMENT OF NATURAL RESOURCES IN THE INTEREST OF RIPARIAN PROPERTY OWNERS. THERE ARE OCCASIONALLY FORMAL OR INFORMAL CHANGES IN CAPACITY AND IN MINIMUM DRAWDOWN LEVELS. USABLE CAPACITY FIGURES LISTED BELOW ARE FOR WINTER REGULATIONS.

05355400 MOOSE LAKE ON WEST FORK CHIPPEWA RIVER, LAT 46°02'00", LONG 91°04'32", IN NE1/4 SEC.14, T.41 N., R.6 W., SAWYER COUNTY, 15.0 MI (24.1 KM) NORTH OF WINTER, WIS., COMPLETED IN 1893, HAS A USABLE CAPACITY OF 400,000,000 FT^3 (11,000,000 M^3). DRAINAGE AREA, 225 MI^2 (583 KM^2). DATUM OF GAGE IS AT MEAN SEA LEVEL (NORTHERN STATES POWER CO. BENCH MARK).

05355600 LAKE CHIPPEWA ON CHIPPEWA RIVER, LAT 45°53'20", LONG 91°04'40", IN SE1/4 SEC.2, T.39 N., R.6 W., SAWYER COUNTY, 3.2 MI (5.2 KM) UPSTREAM FROM GEOLOGICAL SURVEY RIVER-GAGING STATION, 5.5 MI (8.8 KM) NORTHWEST OF WINTER, WIS., COMPLETED IN 1923, HAS A USABLE CAPACITY OF 10,000,000,000 FT^3 (283,000,000 M^3). DRAINAGE AREA, 775 MI^2 (2,007 KM^2). DATUM OF GAGE IS AT MEAN SEA LEVEL (NORTHERN STATES POWER CO. BENCH MARK).

05357300 REST LAKE ON MANITOWISH RIVER, LAT 46°08'20", LONG 89°53'05", IN NW1/4 SEC.9, T.42 N., R.5 E., VILAS COUNTY, 6.2 MI (10 KM) EAST OF MANITOWISH, WIS., USED AS A RESERVOIR SINCE 1887, HAS A CAPACITY OF 660,000,000 FT^3 (19,000,000 M^3) BETWEEN GAGE HEIGHTS 105.00 FT (32.00 M) AND 108.50 FT (33.07 M). THIS RESERVOIR INCLUDES NINE LAKES CONTROLLED BY THE SAME DAM. DRAINAGE AREA, 243 MI^2 (629 KM^2). ALTITUDE OF GAGE IS 1,600 FT (488 M), BY U.S. GEOLOGICAL SURVEY TOPOGRAPHIC MAP.

05357400 FLAMBEAU FLOWAGE ON NORTH FORK FLAMBEAU RIVER, LAT 46°04'13", LONG 90°13'23", IN SE1/4 SEC.34, T.42 N., R.2 E., IRON COUNTY, 0.5 MI (0.8 KM) UPSTREAM FROM DISCONTINUED GEOLOGICAL SURVEY RIVER-GAGING STATION, 10.2 MI (16.4 KM) SOUTHWEST OF MERCER, WIS., COMPLETED IN 1929, HAS A USABLE CAPACITY OF 5,895,000,000 FT^3 (167,000,000 M^3). DRAINAGE AREA, 666 MI^2 (1,725 KM^2). DATUM OF GAGE IS AT MEAN SEA LEVEL (NORTHERN STATES POWER CO. BENCH MARK).

05364200 LAKE WISSOTA ON CHIPPEWA RIVER, LAT 44°56'18", LONG 91°20'27", IN NW1/4 SEC.3, T.28 N., R.8 W., CHIPPEWA COUNTY, 2.0 MI (3.2 KM) EAST OF CHIPPEWA FALLS, WIS., CITY LIMITS, COMPLETED IN 1917, HAS A USABLE CAPACITY OF 3,547,000,000 FT^3 (100,500,000 M^3). DRAINAGE AREA, 5,548 MI^2 (14,369 KM^2). DATUM OF GAGE IS AT MEAN SEA LEVEL (NORTHERN STATES POWER CO. BENCH MARK).

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	MOOSE LAKE	LAKE CHIPPEWA	REST LAKE	FLAMBEAU FLOWAGE	LAKE WISSOTA
SEPT. 30.....	407	9,076	973	3,770	3,967
OCT. 31.....	180	9,640	449	4,908	3,920
NOV. 30.....	75	9,042	350	4,656	3,825
DEC. 31.....	15	7,346	350	3,890	3,889
JAN. 31.....	20	5,020	350	3,068	3,871
FEB. 28.....	15	3,426	350	2,514	2,312
MAR. 31.....	25	3,624	350	2,150	412
APR. 30.....	386	7,610	491	4,440	3,887
MAY 31.....	400	9,676	883	5,382	3,879
JUNE 30.....	393	9,748	991	5,715	3,828
JULY 31.....	393	9,144	918	4,656	3,932
AUG. 31.....	400	8,736	973	4,620	3,857
SEPT. 30.....	393	9,178	918	4,285	3,930

05378500 MISSISSIPPI RIVER AT WINONA, MINN.

LOCATION.--LAT 44°03'20", LONG 91°38'15", IN SEC.23, T.107 N., R.7 W., WINONA COUNTY, ON RIGHT BANK AT WINONA PUMPING STATION IN WINONA, 9.5 MI (15.3 KM) UPSTREAM FROM TREMPEALEAU RIVER AND AT MILE 725.7 (1,167.7 KM) UPSTREAM FROM THE OHIO RIVER.

DRAINAGE AREA.--59,200 MI^2 (153,300 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--JUNE 1928 TO CURRENT YEAR. GAGE-HEIGHT RECORDS COLLECTED IN THIS VICINITY SINCE 1878 ARE CONTAINED IN REPORTS OF MISSISSIPPI RIVER COMMISSION.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 639.64 FT (194.96 M) ABOVE MEAN SEA LEVEL, DATUM OF 1929. JUNE 10, 1928, TO APR. 15, 1931, NONRECORDING GAGE AT SITE 800 FT (244 M) UPSTREAM. PRIOR TO OCT. 1, 1929, AT DATUM 0.20 FT (0.06 M) HIGHER AND OCT. 1, 1929, TO APR. 15, 1931, AT DATUM 0.12 FT (0.04 M) LOWER. APR. 16, 1931, TO NOV. 12, 1934, NONRECORDING GAGE AT PRESENT SITE AND DATUM. SINCE MAR. 31, 1937, AUXILIARY WATER-STAGE RECORDER 2.7 MI (4.3 KM) UPSTREAM AT TAILWATER OF NAVIGATION DAM 5A.

AVERAGE DISCHARGE.--46 YEARS, 26,120 FT^3/S (739.7 M^3/S), 5.99 IN/YR (152 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 81,600 FT^3/S (2,310 M^3/S) JUNE 16 (GAGE HEIGHT, 10.57 FT OR 3.222 M); MINIMUM DAILY, 12,100 FT^3/S (343 M^3/S) JULY 18; MINIMUM GAGE HEIGHT, 4.88 FT (1.487 M) JULY 6.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 268,000 FT^3/S (7,590 M^3/S) APR. 19, 1965 (GAGE HEIGHT, 20.77 FT OR 6.331 M, FROM FLOODMARK); MINIMUM, 2,250 FT^3/S (63.7 M^3/S) DEC. 29, 1933 (GAGE HEIGHT, -1.18 FT OR MINIMUM GAGE HEIGHT, 3.38 FT (-1.030 M) AUG. 31, 1934.
FLOOD OF JUNE 18, 1880, REACHED AN ELEVATION OF 657.14 FT (200.30 M), ACCORDING TO CORPS OF ENGINEERS (DISCHARGE NOT DETERMINED).

REMARKS.--RECORDS GOOD. SOME REGULATION BY RESERVOIRS, NAVIGATION DAMS, AND POWERPLANTS AT LOW AND MEDIUM STAGES. FLOOD FLOW NOT MATERIALLY AFFECTED BY ARTIFICIAL STORAGE.

REVISIONS.--WSP 700: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26,200	38,200	41,400	20,500	17,400	18,600	27,500	60,300	47,800	37,300	16,400	16,100
2	26,700	38,200	40,400	19,100	16,800	18,800	26,500	57,500	45,500	31,700	16,600	14,500
3	26,800	37,300	38,700	18,900	16,500	23,400	32,300	57,100	40,800	31,800	18,000	14,700
4	25,100	34,200	37,000	18,500	16,600	28,600	41,900	56,700	41,800	34,300	18,900	15,100
5	25,000	33,200	36,900	17,900	16,500	28,900	48,100	54,300	45,400	30,300	21,900	14,100
6	26,400	32,500	34,900	17,800	16,500	30,100	49,700	52,500	47,600	21,800	22,900	15,100
7	26,100	31,100	30,600	17,800	16,400	34,400	48,300	51,100	49,000	21,900	23,000	13,500
8	23,600	29,100	27,300	17,800	16,400	36,800	48,100	49,400	49,000	21,900	24,100	15,500
9	21,500	26,300	20,400	17,500	16,400	38,800	48,600	48,900	50,100	24,300	26,200	20,600
10	22,300	23,600	18,100	17,500	16,400	39,400	51,100	47,700	51,800	28,200	25,200	17,600
11	23,700	24,600	16,500	17,600	16,400	39,400	52,100	47,200	57,700	27,600	24,300	15,400
12	29,700	24,900	16,500	17,700	16,500	39,700	52,400	47,800	63,100	24,700	22,900	17,400
13	36,200	21,500	17,700	17,000	16,900	39,100	52,700	46,900	68,500	25,500	22,200	18,800
14	38,700	21,100	20,800	16,200	17,700	38,300	54,800	45,100	74,100	25,200	21,700	19,200
15	42,800	22,700	22,700	15,400	17,600	38,100	57,600	47,300	79,400	20,200	20,200	19,400
16	45,900	24,500	22,200	15,700	17,700	37,900	62,600	51,900	81,300	17,300	19,900	20,200
17	50,500	23,900	18,700	16,800	17,700	36,700	69,200	52,700	81,300	15,300	19,500	18,200
18	51,300	23,800	18,200	17,800	17,900	34,600	73,600	54,300	79,700	12,100	19,500	17,000
19	52,200	25,100	21,400	18,500	18,700	35,000	74,300	55,900	75,800	12,500	19,300	15,400
20	53,300	25,900	22,300	18,200	18,700	35,200	73,900	56,700	72,200	15,900	20,900	13,300
21	54,300	28,700	22,200	18,900	20,000	33,700	74,700	56,400	71,500	17,700	22,900	13,000
22	54,300	31,100	22,200	19,200	20,400	30,300	75,800	58,000	77,000	18,900	22,500	13,700
23	52,700	31,000	22,200	19,300	20,200	25,200	76,100	57,500	73,300	18,800	21,200	13,700
24	49,900	34,600	22,200	19,300	19,000	22,800	74,100	55,700	65,000	17,800	19,900	12,200
25	47,000	35,500	22,700	19,100	18,500	25,200	71,900	54,300	57,000	18,700	20,700	15,200
26	47,700	36,200	23,200	18,800	17,000	28,600	71,400	53,200	51,400	21,700	16,600	16,100
27	46,000	37,600	23,200	18,700	17,100	26,500	70,100	51,400	49,000	21,300	14,000	15,100
28	42,400	40,200	23,200	18,700	18,600	26,900	68,000	49,800	45,100	20,000	14,100	14,400
29	41,800	41,200	23,200	17,000	------	29,900	65,800	48,100	43,400	23,800	16,100	14,300
30	40,000	41,400	22,100	17,300	------	31,200	62,600	48,100	42,700	22,900	16,400	14,200
31	38,600	------	21,000	17,500	------	29,700	------	48,300	------	18,600	16,500	------
TOTAL	1,188.7M	919,200	770,100	558,000	492,500	981,800	1,755.8M	1,622.1M	1,777.3M	700,000	624,500	473,000
MEAN	38,350	30,640	24,840	18,000	17,590	31,670	58,530	52,330	59,240	22,580	20,150	15,770
MAX	54,300	41,400	41,400	20,500	20,400	39,700	76,100	60,300	81,300	37,300	26,200	20,600
MIN	21,500	21,100	16,500	15,400	16,400	18,600	26,500	45,100	40,800	12,100	14,000	12,200
CFSM	.65	.52	.42	.30	.30	.54	.99	.88	1.00	.38	.34	.27
IN.	.75	.58	.48	.35	.31	.62	1.10	1.02	1.12	.44	.39	.30

CAL YR 1973 TOTAL 13,220,700 MEAN 36,220 MAX 135,000 MIN 11,400 CFSM .61 IN 8.31
WTR YR 1974 TOTAL 11,863,000 MEAN 32,500 MAX 81,300 MIN 12,100 CFSM .55 IN 7.45

M EXPRESSED IN THOUSANDS.

05379400 TREMPEALEAU RIVER AT ARCADIA, WIS.

LOCATION.--LAT 44°15'15", LONG 91°30'25", IN SW 1/4 SEC.32, T.21 N., R.9 W., TREMPEALEAU COUNTY, NEAR RIGHT BANK ON DOWNSTREAM SIDE OF BRIDGE ON STATE HIGHWAY 93 AND 95 IN ARCADIA, 0.5 MI (0.8 KM) DOWNSTREAM FROM TURTON CREEK.

DRAINAGE AREA.--552 MI^2 (1,430 KM^2).

PERIOD OF RECORD.--JULY 1960 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE AND CREST-STAGE GAGE. DATUM OF GAGE IS 719.61 FT (219.337 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--14 YEARS, 384 FT^3/S (10.87 M^3/S), 9.45 IN/YR (240 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,520 FT^3/S (99.7 M^3/S) APR. 4, GAGE HEIGHT, 5.93 FT (1.807 M); MINIMUM DAILY, 254 FT^3/S (7.19 M^3/S) SEPT. 5.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 9,740 FT^3/S (276 M^3/S) APR. 6, 1965, GAGE HEIGHT, 7.15 FT (2.179 M), FROM GRAPH BASED ON GAGE READINGS AND FROM RATING CURVE EXTENDED ABOVE 7,000 FT^3/S (198 M^3/S); MAXIMUM GAGE HEIGHT OBSERVED, 8.04 FT (2.451 M) MAR. 2, 1965 (BACKWATER FROM ICE); MINIMUM DISCHARGE OBSERVED, 110 FT^3/S (3.12 M^3/S) AUG. 8, 9, 19, 1964.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WRD WIS. 1970: 1968, 1969.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JUNE 7-16; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 6 TO MAR. 3.)

1.6	254	4.0	1,490
2.0	400	5.0	2,300
3.0	850	6.0	3,800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	408	385	377	350	410	540	1,450	472	444	385	292	288
2	400	377	389	340	420	580	1,170	456	436	385	310	274
3	389	347	389	340	420	620	1,490	472	472	385	332	274
4	492	351	385	330	420	1,620	2,940	472	645	385	351	278
5	516	347	377	320	430	1,230	2,020	456	548	370	389	254
6	432	332	360	320	430	1,670	1,460	432	480	351	370	292
7	416	332	350	320	430	2,120	1,250	396	472	354	339	306
8	400	347	350	320	430	1,520	1,070	420	632	351	339	288
9	412	339	340	320	430	1,170	862	448	1,130	347	347	288
10	432	328	330	320	430	994	750	460	1,930	351	343	299
11	396	328	310	320	430	832	725	645	1,320	381	370	299
12	424	343	300	320	430	700	796	796	1,050	396	358	310
13	392	381	300	320	440	663	1,040	695	695	381	320	324
14	377	370	310	320	440	600	958	874	556	358	324	317
15	370	480	310	330	440	552	826	802	686	347	328	285
16	366	524	320	330	440	554	740	654	584	317	335	268
17	362	464	330	330	440	524	672	560	572	313	392	271
18	358	412	340	330	440	504	627	552	568	324	370	264
19	362	389	340	330	440	520	604	552	560	324	332	264
20	366	396	350	340	450	512	588	536	552	339	302	271
21	354	548	360	340	450	488	636	504	560	320	295	268
22	347	556	360	340	450	448	681	730	548	320	408	268
23	354	492	370	340	450	416	592	750	504	317	556	268
24	354	448	370	350	450	392	536	596	472	317	440	268
25	354	456	370	360	450	404	504	552	456	313	332	268
26	354	440	370	360	460	436	488	480	416	324	332	268
27	335	456	370	380	490	408	492	460	412	313	295	268
28	392	448	370	390	520	496	512	444	404	306	295	274
29	464	420	370	400	------	645	500	456	392	292	299	295
30	440	400	370	400	------	1,690	488	468	392	288	310	302
31	416	------	360	410	------	1,530	------	464	------	288	295	------
TOTAL	12,234	12,236	10,897	10,620	12,360	25,378	27,467	17,054	18,888	10,542	10,700	8,461
MEAN	395	408	352	343	441	819	916	550	630	340	345	282
MAX	516	556	389	410	520	2,120	2,940	874	1,930	396	556	324
MIN	335	328	300	320	410	392	488	396	392	288	292	254
CFSM	.72	.74	.64	.62	.80	1.48	1.66	1.00	1.14	.62	.63	.51
IN.	.82	.82	.73	.72	.83	1.71	1.85	1.15	1.27	.71	.72	.57

CAL YR 1973 TOTAL 241,205 MEAN 661 MAX 4,770 MIN 240 CFSM 1.20 IN 16.26
WTR YR 1974 TOTAL 176,837 MEAN 484 MAX 2,940 MIN 254 CFSM .88 IN 11.92

05379500 TREMPEALEAU RIVER AT DODGE, WIS.

LOCATION.--LAT 44°07'55", LONG 91°33'14", IN SE 1/4 SEC.10, T.19 N., R.10 W., ON TREMPEALEAU COUNTY LINE, NEAR LEFT BANK ON DOWNSTREAM SIDE OF HIGHWAY BRIDGE IN DODGE, 9.0 MI (14.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--643 MI^2 (1,665 KM^2).

PERIOD OF RECORD.--DECEMBER 1913 TO SEPTEMBER 1919, APRIL 1934 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE AND CREST-STAGE GAGE. DATUM OF GAGE IS 661.42 FT (201.601 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCT. 1, 1966, DATUM 2.00 FT (0.610 M) HIGHER.

AVERAGE DISCHARGE.--45 YEARS (1914-19, 1934-74), 405 FT^3/S (11.47 M^3/S), 8.55 IN/YR (217 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,430 FT^3/S (68.8 M^3/S) APR. 6, GAGE HEIGHT, 7.98 FT (2.432 M); MINIMUM DAILY, 312 FT^3/S (8.84 M^3/S) SEPT. 6.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 17,400 FT^3/S (493 M^3/S) APR. 4, 1956, GAGE HEIGHT, 10.35 FT (3.155 M); MINIMUM DAILY, 98 FT^3/S (2.78 M^3/S) JAN. 10, 1938.

REMARKS.--RECORDS ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1238: DRAINAGE AREA. WSP 1388: 1919(M). WSP 1438: 1914, 1915-18(M), 1934-44(M), 1946-49(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JUNE 11, 12; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 6 TO MAR. 3.)

OCT. 1 TO JUNE 8				JUNE 9 TO SEPT. 30			
2.4	332	6.0	1,480	2.5	310	5.0	1,060
3.0	480	7.0	1,880	3.0	430	6.0	1,450
4.0	770	8.0	2,440	4.0	700	7.0	1,880
5.0	1,090						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	513	518	543	390	470	720	1,670	571	532	430	314	314
2	494	496	513	380	480	760	1,470	552	515	422	332	337
3	472	502	504	370	480	840	1,300	541	502	418	346	334
4	485	480	496	360	490	1,470	1,560	527	647	412	375	330
5	647	475	490	350	490	1,720	1,870	549	677	408	366	319
6	571	464	480	340	500	2,120	2,280	546	606	402	354	312
7	529	464	470	340	500	2,100	1,900	543	552	398	349	349
8	515	457	450	350	500	1,740	1,370	513	680	390	358	339
9	515	451	420	360	500	1,560	1,240	504	1,040	382	356	344
10	574	438	400	370	500	1,470	1,150	546	1,450	385	361	337
11	515	467	380	370	500	1,260	923	632	1,550	378	405	330
12	552	457	370	360	500	988	881	563	1,630	415	425	373
13	527	451	360	360	500	860	999	555	1,290	422	373	388
14	513	507	360	360	500	800	1,080	878	841	395	366	378
15	488	611	360	360	500	785	1,060	836	872	382	346	368
16	475	710	360	370	500	710	974	746	741	358	330	351
17	464	662	360	370	500	695	791	728	672	346	385	339
18	457	588	360	370	500	668	767	686	621	330	422	337
19	467	532	370	370	500	647	731	686	627	323	388	334
20	459	527	370	380	500	656	647	674	597	354	349	337
21	462	644	380	380	500	665	716	659	639	349	339	330
22	457	725	380	390	520	603	683	821	627	351	380	323
23	451	701	390	390	520	594	737	911	570	344	564	314
24	457	606	390	400	540	538	719	836	549	342	492	346
25	449	597	400	400	560	803	650	797	489	346	402	342
26	451	580	400	410	600	836	623	580	475	349	368	351
27	441	585	400	410	640	902	608	571	460	344	354	349
28	464	549	400	420	660	812	629	552	440	337	339	344
29	472	549	400	430	------	749	611	532	440	330	332	385
30	464	549	400	440	------	1,150	600	557	432	323	328	378
31	552	------	400	450	------	1,130	------	546	------	321	323	------
TOTAL	15,352	16,342	12,756	11,800	14,450	31,351	31,239	19,738	21,763	11,486	11,521	10,312
MEAN	495	545	411	381	516	1,011	1,041	637	725	371	372	344
MAX	647	725	543	450	660	2,120	2,280	911	1,630	430	564	388
MIN	441	438	360	340	470	538	600	504	432	321	314	312
CFSM	.77	.85	.64	.59	.80	1.57	1.62	.99	1.13	.58	.58	.54
IN.	.89	.95	.74	.68	.84	1.81	1.81	1.14	1.26	.66	.67	.60

CAL YR 1973 TOTAL 280,952 MEAN 770 MAX 5,140 MIN 350 CFSM 1.20 IN 16.25
WTR YR 1974 TOTAL 208,110 MEAN 570 MAX 2,280 MIN 312 CFSM .89 IN 12.04

05381000 BLACK RIVER AT NEILLSVILLE, WIS.

LOCATION.--LAT 44°33'35", LONG 90°36'54", IN 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 MI (1.6 KM) DOWNSTREAM FROM O'NEILL CREEK, AND 2.6 MI (4.2 KM) UPSTREAM FROM CUNNINGHAM CREEK.

DRAINAGE AREA.--756 MI^2 (1,958 KM^2).

PERIOD OF RECORD.--APRIL 1905 TO MARCH 1909, OCTOBER 1913 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 962.77 FT (293.452 M) ABOVE MEAN SEA LEVEL (LEVELS BY U.S. WEATHER BUREAU). PRIOR TO OCT. 24, 1934, NONRECORDING GAGE.

AVERAGE DISCHARGE.--64 YEARS (1905-8, 1913-74), 581 FT^3/S (16.45 M^3/S), 10.43 IN/YR (265 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 9,260 FT^3/S (262 M^3/S) APR. 7, GAGE HEIGHT, 11.33 FT (3.453 M); MINIMUM, 25 FT^3/S (0.708 M^3/S) SEPT. 6, GAGE HEIGHT, 2.46 FT (0.750 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 48,800 FT^3/S (1,380 M^3/S) SEPT. 10, 1938, GAGE HEIGHT, 23.8 FT (7.25 M); MINIMUM, 0.6 FT^3/S (0.017 M^3/S) AUG. 15, 1936, GAGE HEIGHT, 1.84 FT (0.561 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 805: DRAINAGE AREA. WSP 1308: 1914. WSP 1438: 1905, 1906-8(M), 1914-17(M), 1918-19, 1920-25(M), 1926-27, 1928-29(M), 1930, 1931(M), 1932, 1933(M), 1934, 1935(M), 1936. WSP 1508: 1950.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED SEPT. 14-30; STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 9-16, DEC. 6 TO MAR. 10, MAR. 24 TO APR. 1.)

2.4	20	3.5	226	8.0	3,520
2.6	37	4.0	401	10.0	6,760
2.8	65	5.0	870	12.0	10,600
3.0	101	6.0	1,520		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302	168	232	42	74	78	250	269	202	81	34	30
2	219	155	183	41	74	100	643	236	284	87	37	30
3	172	138	199	40	72	180	3,080	217	318	111	36	28
4	151	130	181	39	72	400	6,130	199	271	113	41	27
5	124	120	121	39	70	900	4,400	222	206	97	45	26
6	110	105	110	39	70	2,300	4,780	282	170	87	43	26
7	104	96	110	38	70	1,900	8,280	293	262	79	38	27
8	98	91	100	37	70	1,600	6,170	280	720	72	38	28
9	95	88	96	37	70	1,300	4,330	248	1,980	66	39	29
10	95	82	92	37	70	1,200	3,400	217	3,860	67	40	29
11	100	80	90	37	70	1,270	3,080	401	5,080	56	41	32
12	97	80	84	37	68	1,320	3,590	724	3,350	52	41	43
13	97	80	80	37	68	1,150	5,360	933	1,980	50	55	77
14	97	82	76	37	68	942	4,770	1,140	1,140	47	49	103
15	98	88	74	38	68	875	3,420	1,280	754	42	43	106
16	91	98	70	38	66	745	2,280	1,270	533	40	90	106
17	86	107	66	41	66	592	1,550	994	416	37	88	107
18	81	104	64	46	66	514	1,090	730	359	37	65	96
19	78	103	60	52	66	430	826	533	305	37	55	85
20	74	111	58	58	66	370	695	415	254	35	55	76
21	72	161	56	64	66	328	641	361	222	48	57	68
22	69	183	54	68	66	279	682	510	189	43	54	61
23	68	196	52	70	66	227	752	685	158	36	46	56
24	67	262	50	72	68	200	710	767	133	33	42	54
25	67	258	50	74	68	170	595	601	115	33	38	52
26	67	228	48	74	70	150	484	443	104	33	33	48
27	67	235	47	76	72	140	409	319	92	34	31	47
28	78	249	45	76	74	130	362	260	83	34	29	47
29	92	287	45	76	------	120	332	227	77	32	28	52
30	96	306	44	74	------	120	303	211	95	31	28	53
31	136	------	43	74	------	150	------	197	------	32	30	------
TOTAL	3,248	4,471	2,680	1,608	1,934	20,180	73,394	15,464	23,712	1,682	1,389	1,649
MEAN	105	149	86.5	51.9	69.1	651	2,446	499	790	54.3	44.8	55.0
MAX	302	306	232	76	74	2,300	8,280	1,280	5,080	113	90	107
MIN	67	80	43	37	66	78	250	197	77	31	28	26
CFSM	.14	.20	.11	.07	.09	.86	3.24	.66	1.05	.07	.06	.07
IN.	.16	.22	.13	.08	.10	.99	3.61	.76	1.17	.08	.07	.08

CAL YR 1973 TOTAL 354,479 MEAN 971 MAX 16,600 MIN 40 CFSM 1.28 IN 17.44
WTR YR 1974 TOTAL 151,411 MEAN 415 MAX 8,280 MIN 26 CFSM .55 IN 7.45

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 4	0200	10.54	7,750	4-13	1700	9.26	5,450
4- 7	0800	11.33	9,260	6-11	0700	9.27	5,470

05382000 BLACK RIVER NEAR GALESVILLE, WIS.

LOCATION.--LAT 44°04'22", LONG 91°17'41", IN SW 1/4 SEC.1, T.18 N., R.8 W., LACROSSE COUNTY, ON LEFT BANK 1,000 FT (305 M) UPSTREAM FROM BRIDGE ON U.S. HIGHWAY 53, 4.5 MI (7.2 KM) SOUTHEAST OF GALESVILLE, AND 4.8 MI (7.7 KM) DOWNSTREAM FROM FLEMING CREEK.

DRAINAGE AREA.--2,120 MI^2 (5,490 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--DECEMBER 1931 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 658.43 FT (200.689 M) ABOVE MEAN SEA LEVEL, UNADJUSTED. PRIOR TO APR. 2, 1941, NONRECORDING GAGE ON BRIDGE 1,000 FT (305 M) DOWNSTREAM AT SAME DATUM. APR. 3, 1941, TO OCT. 1, 1971, WATER-STAGE RECORDER AT SITE 1,100 FT (335 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--42 YEARS (1932-74), 1,680 FT^3/S (47.58 M^3/S) 10.76 IN/YR (273 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 12,400 FT^3/S (351 M^3/S) APR. 9, GAGE HEIGHT, 10.73 FT (3.271 M); MINIMUM DAILY, 400 FT^3/S (11.3 M^3/S) SEPT. 22, 23.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 65,500 FT^3/S (1,850 M^3/S) APR. 1, 1967, GAGE HEIGHT, 14.63 FT (4.459 M); MINIMUM OBSERVED, 180 FT^3/S (5.10 M^3/S) DEC. 20, 1932.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. FLOW PARTLY REGULATED BY HATFIELD DAM POWERPLANT WHERE DRAINAGE AREA IS 1,290 MI^2 (3,340 KM^2) AND STORAGE CAPACITY IS 272,000,000 FT^3 (7.70 HM^3). WATER DIVERTED PERIODICALLY FROM BASIN INTO LEMONWEIR RIVER BASIN FOR CRANBERRY CULTURE.

REVISIONS (WATER YEARS).--WSP 1438: 1932-34, 1935-36(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED NOV. 16, MAR. 8 TO APR. 7, APR. 26 TO MAY 14; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 5 TO MAR. 6.)

OCT. 1 TO JUNE 10				JUNE 11 TO SEPT. 30			
1.0	440	4.0	2,370	1.3	380	5.0	3,340
1.5	726	6.0	4,130	2.0	820	7.0	5,700
2.0	1,020	8.0	6,790	3.0	1,580	10.0	10,800
2.5	1,320	11.0	13,140				
3.0	1,660						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	690	736	1,110	580	620	1,200	2,920	1,470	1,250	820	511	454
2	708	738	1,040	580	540	1,300	3,500	1,500	1,170	855	501	442
3	918	883	986	560	720	1,400	4,510	1,220	1,060	855	533	450
4	1,010	844	860	560	700	1,600	4,360	1,090	1,350	827	508	442
5	978	689	920	540	620	1,900	5,880	1,060	1,610	743	490	476
6	798	693	920	520	700	2,100	10,300	918	1,340	729	615	448
7	788	817	880	500	740	2,750	10,300	942	1,370	771	526	448
8	778	801	780	500	740	3,980	8,280	1,140	1,560	674	490	442
9	706	860	640	490	740	4,890	10,900	1,440	2,470	722	454	436
10	618	775	500	490	740	5,170	10,900	1,180	3,500	778	466	405
11	784	707	520	500	760	3,790	7,520	1,570	4,900	764	502	430
12	806	606	560	500	780	3,230	6,140	1,440	7,460	757	472	490
13	772	618	600	500	800	3,190	5,260	1,810	9,460	834	484	490
14	776	792	680	520	820	3,220	5,430	2,140	8,320	820	490	484
15	696	870	640	520	800	3,000	6,690	2,700	4,680	667	436	448
16	711	978	540	540	860	2,870	7,350	3,430	2,940	684	442	420
17	736	960	470	540	880	2,750	6,050	2,890	2,580	648	460	405
18	709	996	490	560	920	2,640	4,660	2,760	2,350	628	538	420
19	728	822	500	580	940	2,550	3,560	2,550	2,220	628	508	410
20	717	906	560	600	960	2,370	2,560	2,230	1,940	595	466	407
21	692	1,080	540	600	960	2,270	2,420	2,070	2,350	585	472	416
22	600	1,130	560	620	980	2,220	2,290	2,000	1,920	551	544	400
23	606	1,040	600	640	1,000	2,260	2,070	2,000	2,020	556	622	400
24	693	1,000	560	660	1,000	2,280	2,070	2,040	1,480	570	571	419
25	573	1,070	540	660	1,000	2,200	2,010	1,880	1,360	550	636	434
26	540	868	540	640	1,100	2,040	1,920	1,810	1,320	598	466	433
27	594	952	580	640	1,100	1,550	1,840	1,780	1,190	632	466	422
28	642	1,150	580	620	1,200	2,180	1,740	1,720	1,030	568	484	422
29	667	1,160	560	600	------	2,160	1,660	1,390	1,010	523	460	445
30	770	1,140	560	640	------	2,240	1,340	1,320	968	533	454	428
31	790	------	580	740	------	2,430	------	1,280	------	550	460	------
TOTAL	22,594	26,681	20,396	17,740	23,720	79,730	146,430	54,770	78,178	21,015	15,527	13,066
MEAN	729	889	658	572	847	2,572	4,881	1,767	2,606	678	501	436
MAX	1,010	1,160	1,110	740	1,200	5,170	10,900	3,430	9,460	855	636	490
MIN	540	606	470	490	540	1,200	1,340	918	968	523	436	400
CFSM	.34	.42	.31	.27	.40	1.21	2.30	.83	1.23	.32	.24	.21
IN.	.40	.47	.36	.31	.42	1.40	2.57	.96	1.37	.37	.27	.23

CAL YR 1973 TOTAL 1,069,015 MEAN 2,929 MAX 34,200 MIN 470 CFSM 1.38 IN 18.76
WTR YR 1974 TOTAL 519,847 MEAN 1,424 MAX 10,900 MIN 400 CFSM .67 IN 9.12

PEAK DISCHARGE (BASE, 12, 500 FT^3/S)--NO PEAK ABOVE BASE.

05389500 MISSISSIPPI RIVER AT MCGREGOR, IOWA

LOCATION.--LAT 43°01'29", LONG 91°10'21", IN SE 1/4 SE 1/4 SEC.22, T.95 N., R.3 W., CLAYTON COUNTY, ON RIGHT BANK IN CITY PARK AT EAST END OF MAIN STREET IN MCGREGOR, 2.6 MI (4.2 KM) UPSTREAM FROM WISCONSIN RIVER, 4.3 MI (6.9 KM) DOWNSTREAM FROM YELLOW RIVER, AND AT MILE 633.4 (1,019.1 KM) UPSTREAM FROM OHIO RIVER.

DRAINAGE AREA.--67,500 MI^2 (174,800 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--AUGUST 1936 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 605.30 FT (184.50 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912. PRIOR TO JUNE 1, 1937, AND SINCE JUNE 2, 1939, AUXILIARY WATER-STAGE RECORDER; JUNE 1, 1937 TO JUNE 1, 1939, AUXILIARY NONRECORDING GAGE 14.1 MI (22.7 KM) UPSTREAM IN TAILWATER OF DAM 9, AT DATUM 5.30 FT (1.615 M) LOWER.

AVERAGE DISCHARGE.--38 YEARS, 33,700 FT^3/S (954 M^3/S), 6.78 IN/YR (172 MM/YR), 24,420,000 ACRE-FT/YR (30,100 HM^3/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DAILY DISCHARGE, 104,000 FT^3/S (2,950 M^3/S) JUNE 22-24; MAXIMUM GAGE HEIGHT, 14.53 FT (4.429 M) JUNE 21; MINIMUM DAILY DISCHARGE, 9,920 FT^3/S (281 M^3/S) JULY 19; MINIMUM GAGE HEIGHT, 6.10 FT (1.859 M) JULY 21.

PERIOD OF RECORD: MAXIMUM DAILY DISCHARGE, 276,000 FT^3/S (7,820 M^3/S) APR. 24, 1965; MAXIMUM GAGE HEIGHT, 25.38 FT (7.736 M) APR. 24, 1965; MINIMUM DAILY DISCHARGE, 6,200 FT^3/S (176 M^3/S) DEC. 9, 1936; MINIMUM GAGE HEIGHT, -0.86 FT (-0.262 M) AUG. 18, 1936.

MAXIMUM STAGE SINCE AT LEAST 1828, THAT OF APR. 24, 1965.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR. STAGE-DISCHARGE RELATION AFFECTED BY BACKWATER FROM WISCONSIN RIVER AND DAM 10. FLOW REGULATED BY NAVIGATION DAMS.

COOPERATION.--GAGE HEIGHT RECORD AT DAM 9 COLLECTED IN COOPERATION WITH CORPS OF ENGINEERS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37,500	43,200	45,300	26,000	23,500	22,000	39,100	78,900	50,700	48,900	22,600	20,100
2	38,100	42,300	44,800	25,500	22,500	22,000	39,300	74,700	50,000	45,200	20,500	19,300
3	37,500	41,000	46,500	25,000	21,500	23,000	41,500	72,500	49,600	38,200	19,200	17,200
4	37,400	40,300	45,500	24,500	21,500	27,000	46,700	69,300	49,700	35,700	19,900	15,400
5	36,200	39,500	45,300	24,000	21,000	35,000	54,000	67,500	49,600	35,000	21,400	14,900
6	35,400	37,300	44,100	23,000	21,000	43,700	64,100	60,300	49,600	35,000	22,500	14,100
7	35,200	36,000	39,800	23,000	21,000	46,300	68,100	61,200	52,200	33,000	24,000	14,300
8	35,100	35,700	34,400	23,000	21,000	48,800	69,900	60,400	56,100	25,400	26,800	15,300
9	33,100	34,900	29,000	23,000	21,000	55,500	70,600	58,400	59,700	25,800	27,300	20,000
10	29,900	32,400	26,000	23,000	20,500	58,200	70,500	55,100	64,000	25,700	28,600	22,800
11	27,900	28,700	22,000	23,000	20,000	58,100	70,500	54,000	67,100	27,800	29,600	23,500
12	28,800	26,200	21,000	23,000	20,000	58,000	71,600	56,300	70,200	30,500	31,200	23,300
13	35,200	27,500	20,900	23,000	20,000	56,800	74,200	56,400	73,800	30,700	31,800	23,900
14	40,500	30,000	21,000	22,000	20,000	54,700	75,600	58,600	79,000	30,300	29,300	21,900
15	44,300	29,500	22,000	19,500	20,000	52,600	75,500	59,100	85,600	28,500	26,400	20,900
16	45,400	27,300	23,000	19,500	20,500	50,500	75,000	58,600	90,300	22,600	24,100	20,800
17	46,900	27,900	24,000	19,400	21,000	47,000	76,400	58,900	94,400	15,300	22,700	20,500
18	50,400	29,800	25,000	19,300	21,500	44,400	80,500	61,700	96,700	11,000	21,700	20,600
19	53,100	31,600	24,000	19,800	23,000	43,600	85,800	64,300	97,600	9,920	20,000	19,300
20	54,900	31,300	24,000	20,500	24,000	43,200	89,900	65,400	97,400	10,000	17,500	17,000
21	55,900	34,200	24,000	21,000	26,000	41,900	93,300	66,900	100,000	14,600	22,100	14,600
22	56,700	36,400	24,000	22,000	27,000	40,900	94,300	69,000	104,000	18,100	27,700	14,700
23	57,800	39,800	24,000	23,000	27,000	37,800	93,300	69,700	104,000	20,600	29,600	14,500
24	57,900	41,800	24,500	23,500	26,000	32,400	92,500	70,400	104,000	21,000	27,600	14,900
25	57,700	42,500	25,000	23,800	25,000	26,200	89,400	71,200	98,900	22,400	21,600	14,700
26	55,700	42,200	26,000	23,800	24,000	30,400	89,000	69,900	91,200	24,900	17,100	16,700
27	53,600	42,700	28,000	23,800	23,000	35,500	87,000	68,300	82,100	26,400	15,800	17,500
28	50,900	43,300	27,500	23,600	22,000	35,500	83,700	65,800	73,600	27,000	14,800	17,300
29	47,600	44,000	27,000	23,600	------	35,200	83,100	62,200	63,500	25,400	14,100	18,400
30	44,800	45,300	27,000	23,600	------	38,100	82,100	57,400	55,000	21,100	14,800	18,200
31	43,300	------	26,500	23,600	------	39,100	------	54,400	------	21,900	18,700	------
TOTAL	1,364.7M	1,084.6M	911,100	704,300	624,500	1,283.4M	2,226.5M	1,976.8M	2,259.6M	807,920	711,000	546,600
MEAN	44,020	36,150	29,390	22,720	22,300	41,400	74,220	63,770	75,320	26,060	22,940	18,220
MAX	57,900	45,300	46,500	26,000	27,000	58,200	94,300	78,900	104,000	48,900	31,800	23,900
MIN	27,900	26,200	20,900	19,300	20,000	22,000	39,100	54,000	49,600	9,920	14,100	14,100
CFSM	.65	.54	.44	.34	.33	.61	1.10	.94	1.12	.39	.34	.27
IN.	.75	.60	.50	.39	.34	.71	1.23	1.09	1.25	.45	.39	.30
AC-FT	2,707M	2,151M	1,807M	1,397M	1,239M	2,546M	4,416M	3,921M	4,482M	1,603M	1,410M	1,084M

CAL YR 1973 TOTAL 17,397,800 MEAN 47,670 MAX 151,000 MIN 16,200 CFSM .71 IN 9.59 AC-FT 34,510,000
WTR YR 1974 TOTAL 14,501,020 MEAN 39,730 MAX 104,000 MIN 9,920 CFSM .59 IN 7.99 AC-FT 28,760,000

M EXPRESSED IN THOUSANDS

05390500 ANVIL LAKE NEAR EAGLE RIVER, WIS.

LOCATION.--LAT 45°57'10", LONG 89°03'11", IN SEC.13, T.40 N., R.11 E., VILAS COUNTY, NEAR THE HOME OF VIOLET WAGGONER ON NORTH SIDE OF LAKE, 11 MI (17.7 KM) NORTHEAST OF EAGLE RIVER.

DRAINAGE AREA.--3 MI² (8 KM²), APPROXIMATELY. AREA OF ANVIL LAKE, 380 ACRES (1.54 KM²).

PERIOD OF RECORD.--AUGUST 1936 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 90.00 FT (27.4 M) ABOVE DATUM ASSUMED BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES; GAGE READINGS HAVE BEEN REDUCED TO ELEVATIONS ABOVE THIS DATUM. PRIOR TO AUG. 13, 1950, STAFF GAGE 0.3 MI (0.5 KM) SOUTH AT SAME DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM ELEVATION OBSERVED, 5.61 FT (1.710 M) JULY 27; MINIMUM OBSERVED, 5.02 FT (1.530 M) SEPT. 30.

PERIOD OF RECORD: MAXIMUM ELEVATION OBSERVED, 7.20 FT (2.195 M) MAY 3, 7, 17, 21, 24, 28, JUNE 20, 24, 1943; MINIMUM OBSERVED, 2.10 FT (0.640 M) JULY 31, 1964.

REMARKS.--ADD 90 FT (27.4 M) TO OBTAIN ELEVATION ABOVE DATUM ASSUMED FOR THIS LAKE BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES. LAKE HAS NO SURFACE OUTLET. LAKE WAS ICE COVERED ABOUT DEC. 10 TO APR. 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										5.45		
2												
3										5.31		
4									5.42		5.46	
5	5.42											5.10
6												
7												
8									5.42			
9												
10	5.43	5.32										
11												
12												
13	5.42											
14												
15					5.52							
16												
17												
18												
19												
20	5.37	5.33										
21												
22												
23												
24												
25												
26										5.61		
27	5.37											
28						5.50						
29					------				5.31			5.02
30					------							
31		------			------		------		------			------

05391000 WISCONSIN RIVER AT RAINBOW LAKE, NEAR TOMAHAWK, WIS.

LOCATION.--LAT 45°49'58", LONG 89°32'51", IN S 1/2 SW 1/4 SEC.30, T.39 N., R.8 E., ONEIDA COUNTY, ON RIGHT BANK 400 FT (122 M) UPSTREAM FROM GILMORE CREEK, 0.3 MI (0.5 KM) DOWNSTREAM FROM RAINBOW LAKE, AND 2.5 MI (4.0 KM) NORTHEAST OF LAKE TOMAHAWK. RECORDS INCLUDE FLOW OF GILMORE CREEK.

DRAINAGE AREA.--750 MI^2 (1,940 KM^2), APPROXIMATELY, INCLUDES THAT OF GILMORE CREEK.

PERIOD OF RECORD.--JULY 1936 TO CURRENT YEAR. PRIOR TO OCTOBER 1955, PUBLISHED AS "AT RAINBOW RESERVOIR, NEAR LAKE TOMAHAWK."

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,570.05 FT (478.551 M) ABOVE MEAN SEA LEVEL (PUBLIC SERVICE COMMISSION OF WISCONSIN BENCH MARK).

AVERAGE DISCHARGE.--38 YEARS, 703 FT^3/S (19.91 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,010 FT^3/S (28.6 M^3/S) OCT. 6, GAGE HEIGHT, 3.31 FT (1.009 M); MINIMUM DAILY, 221 FT^3/S (6.26 M^3/S) APR. 20.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 3,570 FT^3/S (101 M^3/S) SEPT. 5, 1941, GAGE HEIGHT, 7.59 FT (2.313 M); MINIMUM, 17 FT^3/S (0.48 M^3/S) OCT. 10-12, 1940; MINIMUM DAILY, 35 FT^3/S (0.99 M^3/S) APR. 6, 1955.

REMARKS.--RECORD GOOD. FLOW REGULATED BY RAINBOW LAKE AND 12 SMALLER RESERVOIRS ABOVE STATION (SEE P. 141).

REVISIONS (WATER YEARS).--WSP 895: 1937(M), WSP 1508: 1944.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

0.8	173	2.4	630
1.3	284	3.0	875
1.8	430	4.0	1,350

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	884	862	741	857	738	706	536	243	330	568	538	627
2	842	822	746	818	732	680	516	278	370	655	510	662
3	836	727	768	784	727	670	499	308	416	798	433	754
4	885	786	799	780	724	694	440	314	494	854	284	710
5	975	900	791	777	739	644	466	310	542	755	286	672
6	1,010	919	825	774	761	633	522	299	569	689	400	632
7	996	919	910	773	759	643	522	387	504	662	569	601
8	908	885	844	770	755	614	491	540	302	621	606	616
9	867	844	833	767	753	590	445	560	287	630	551	581
10	829	839	797	764	747	586	343	509	284	647	551	447
11	809	844	772	762	745	582	299	355	299	685	507	455
12	831	802	771	763	739	574	318	239	380	705	454	499
13	834	757	770	763	733	569	292	289	455	769	449	502
14	831	731	774	758	732	599	268	339	494	619	586	568
15	828	751	774	750	735	613	267	356	525	585	622	662
16	827	817	775	777	727	597	303	331	522	598	399	659
17	864	845	775	810	724	583	287	321	619	601	284	581
18	884	844	771	804	726	569	247	298	667	604	490	539
19	884	812	770	798	720	567	224	311	565	625	618	523
20	883	772	769	791	725	590	221	369	502	634	602	587
21	881	731	809	786	737	628	314	438	510	627	600	634
22	879	665	840	783	743	658	582	438	545	625	519	639
23	876	679	834	780	749	668	550	376	606	592	565	614
24	875	701	834	777	739	701	497	315	666	563	646	574
25	860	700	833	770	725	694	430	323	664	536	655	534
26	816	740	800	762	707	667	411	391	645	528	512	542
27	790	787	761	756	720	661	374	463	695	487	474	551
28	663	794	761	753	728	643	241	479	715	499	524	550
29	685	794	761	749	------	624	246	432	711	516	594	535
30	819	758	763	744	------	598	246	425	656	544	616	544
31	858	------	808	741	------	567	------	321	------	540	611	------
TOTAL	26,509	23,827	24,579	24,041	20,589	19,412	11,397	11,357	15,539	19,361	16,055	17,594
MEAN	855	794	793	776	735	626	380	366	518	625	518	586
MAX	1,010	919	910	857	761	706	582	560	715	854	655	754
MIN	663	665	741	741	707	567	221	239	284	487	284	447

CAL YR 1973 TOTAL 345,499 MEAN 947 MAX 2,630 MIN 265
WTR YR 1974 TOTAL 230,260 MEAN 631 MAX 1,010 MIN 221

05393500 SPIRIT RIVER AT SPIRIT FALLS, WIS.

LOCATION.--LAT 45°26'58", LONG 89°58'47", IN NW 1/4 SEC.10, T.34 N., R.4 E., LINCOLN COUNTY, NEAR CENTER OF SPAN ON DOWNSTREAM SIDE OF BRIDGE 0.2 MI (0.3 KM) SOUTH OF SPIRIT FALLS, 0.6 MI (1.0 KM) UPSTREAM FROM SQUAW CREEK, AND 2.0 MI (3.2 KM) DOWNSTREAM FROM RICHIE CREEK.

DRAINAGE AREA.--82 MI^2 (212 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--APRIL 1942 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE AND CREST-STAGE GAGE. ALTITUDE OF GAGE IS 1,450 FT (442 M), FROM DAM AND RESERVOIR DATA.

AVERAGE DISCHARGE.--32 YEARS, 83.8 FT^3/S (2.373 M^3/S), 13.88 IN/YR (353 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,190 FT^3/S (33.7 M^3/S) APR. 13, GAGE HEIGHT, 5.70 FT (1.737 M); MINIMUM OBSERVED, 5.3 FT^3/S (0.15 M^3/S) JULY 13, GAGE HEIGHT, 1.16 FT (0.354 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 4,180 FT^3/S (118 M^3/S) SEPT. 18, 1942, GAGE HEIGHT, 10.00 FT (3.048 M), FROM RATING CURVE EXTENDED ABOVE 2,500 FT^3/S (70.8 M^3/S); MINIMUM OBSERVED, 1.0 FT^3/S (0.028 M^3/S) AUG. 11, 1964, GAGE HEIGHT, 0.85 FT (0.259 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1208: DRAINAGE AREA. WSP 1308: 1943(M), 1948-50(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-20, NOV. 26 TO APR. 10.)

1.1	4.0	3.0	220
1.2	6.2	3.5	335
1.4	12	4.0	470
1.6	21	5.0	830
2.0	52	6.0	1,370
2.5	122		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	72	41	15	14	12	35	72	140	16	12	10
2	49	66	39	14	13	13	43	61	96	15	10	9.8
3	41	56	36	14	13	15	60	62	66	14	26	9.1
4	34	48	35	14	13	17	190	68	56	13	194	7.8
5	34	36	33	14	13	30	260	59	45	10	113	7.2
6	32	29	31	13	13	78	290	58	41	11	55	6.5
7	27	25	30	13	13	90	360	50	96	10	40	6.2
8	25	23	28	13	13	92	320	43	515	8.3	28	8.0
9	25	22	26	12	12	92	280	39	455	7.8	23	21
10	37	21	25	12	12	86	330	34	702	7.5	20	385
11	37	22	24	12	11	80	494	135	584	7.2	40	425
12	35	23	23	12	11	74	810	244	388	5.5	44	258
13	35	23	23	12	11	72	1,130	178	348	5.3	40	220
14	33	25	23	11	11	66	782	164	222	9.4	24	184
15	27	24	23	11	11	62	524	242	174	11	26	124
16	26	24	22	12	11	58	410	210	154	8.5	101	84
17	22	23	22	12	11	54	328	160	126	7.2	124	68
18	20	23	21	12	11	50	298	135	101	11	61	53
19	20	23	20	13	11	44	240	101	87	8.8	34	42
20	20	24	19	14	11	41	200	77	68	7.5	26	37
21	19	33	18	14	11	36	222	64	55	6.7	21	34
22	18	108	18	14	11	31	300	146	50	7.0	24	29
23	18	87	17	14	11	28	285	178	40	6.5	20	26
24	17	67	17	15	11	25	228	133	30	5.5	20	22
25	17	56	17	15	11	23	182	108	27	18	16	20
26	16	52	17	15	11	22	148	80	26	68	15	22
27	18	52	17	15	11	21	126	64	20	57	13	20
28	45	58	17	14	11	20	117	66	17	33	11	18
29	115	52	16	14	------	20	98	63	15	20	11	26
30	87	47	16	14	------	21	88	70	18	16	9.4	31
31	72	------	15	14	------	29	------	126	------	14	10	------
TOTAL	1,080	1,244	729	413	327	1,402	9,178	3,290	4,762	445.7	1,211.4	2,213.6
MEAN	34.8	41.5	23.5	13.3	11.7	45.2	306	106	159	14.4	39.1	73.8
MAX	115	108	41	15	14	92	1,130	244	702	68	194	425
MIN	16	21	15	11	11	12	35	34	15	5.3	9.4	6.2
CFSM	.42	.51	.29	.16	.14	.55	3.73	1.29	1.94	.18	.48	.90
IN.	.49	.56	.33	.19	.15	.64	4.16	1.49	2.16	.20	.55	1.00

CAL YR 1973 TOTAL 43,485.2 MEAN 119 MAX 2,170 MIN 6.5 CFSM 1.45 IN 19.73
WTR YR 1974 TOTAL 26,295.7 MEAN 72.0 MAX 1,130 MIN 5.3 CFSM .88 IN 11.93

05394500 PRAIRIE RIVER NEAR MERRILL, WIS.

LOCATION.--LAT 45°14'09", LONG 89°38'59", ON LINE BETWEEN SECS.20 AND 29, T.32 N., R.7 E., LINCOLN COUNTY, ON LEFT BANK 40 FT (12 M) UPSTREAM FROM COUNTY HIGHWAY C BRIDGE, 1.5 MI (2.4 KM) UPSTREAM FROM MEADOW CREEK, 4.5 MI (7.2 KM) NORTHEAST OF MERRILL, AND 8.0 MI (12.9 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--181 MI^2 (469 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO SEPTEMBER 1931, AUGUST 1939 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 1,300 FT (396 M), FROM TOPOGRAPHIC MAP. PRIOR TO OCT. 9, 1968, NONRECORDING GAGE 40 FT (12 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--52 YEARS (1914-31, 1939-74), 181 FT^3/S (5.126 M^3/S), 13.58 IN/YR (345 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 946 FT^3/S (26.8 M^3/S) APR. 13, 14, GAGE HEIGHT, 4.61 FT (1.405 M); MINIMUM, 71 FT^3/S (2.01 M^3/S) JULY 24, AUG. 29, 30.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 5,800 FT^3/S (164 M^3/S) AUG. 31, 1941, GAGE HEIGHT, 9.45 FT (2.880 M), FROM FLOOD MARKS, BASED ON RATING CURVE EXTENDED ABOVE 2,200 FT^3/S (62.3 M^3/S); MINIMUM OBSERVED, 34 FT^3/S (0.96 M^3/S) OCT. 26, 1947, GAGE HEIGHT, 1.39 FT (0.424 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1308: 1915-17(M), 1919-21(M), 1923-31(M), 1942-43(M), 1945(M), 1948-50(M). WSP 1558: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 3-9, DEC. 11 TO MAR. 2 AND MAR. 24-27.)

1.9	62	3.5	445
2.3	123	4.0	645
3.0	285	5.0	1,170

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	161	132	90	88	86	107	172	278	87	82	77
2	131	161	126	90	86	94	114	162	227	85	81	75
3	126	149	120	88	86	108	169	159	181	88	142	75
4	126	135	120	88	84	121	275	154	151	89	334	75
5	126	122	110	88	82	133	241	148	132	88	290	74
6	121	116	110	86	80	146	233	141	126	85	192	73
7	120	119	110	86	80	172	275	133	158	82	145	73
8	119	113	110	86	80	170	272	126	250	79	117	73
9	116	112	110	86	78	154	282	122	325	76	100	97
10	119	112	108	86	78	149	304	117	424	75	94	265
11	128	105	110	86	78	154	386	181	382	74	103	384
12	131	103	110	84	78	158	589	260	282	73	111	401
13	127	113	110	84	78	162	895	247	210	75	109	366
14	121	113	110	84	78	160	904	220	175	87	101	300
15	121	117	110	82	78	145	700	220	191	85	92	228
16	112	117	100	82	78	137	505	209	178	80	106	176
17	112	108	100	82	78	128	408	186	173	79	135	146
18	114	114	98	84	78	127	354	161	163	86	130	129
19	112	116	98	86	76	122	322	144	149	85	111	119
20	107	111	96	88	76	126	283	134	132	81	101	109
21	105	142	94	90	76	117	260	130	123	77	95	103
22	109	197	94	90	76	106	262	158	112	77	91	97
23	105	185	94	90	76	98	256	176	104	73	88	97
24	107	176	92	90	76	96	227	161	95	74	84	96
25	105	156	92	90	76	94	202	142	92	151	80	96
26	105	143	92	88	78	92	185	129	89	183	77	94
27	112	157	92	88	80	92	177	125	86	150	75	93
28	139	167	92	88	82	93	186	129	83	115	73	95
29	156	146	92	88	------	94	189	131	84	95	72	109
30	146	135	92	88	------	102	179	130	94	89	74	121
31	153	------	92	88	------	105	------	208	------	87	78	------
TOTAL	3,772	4,021	3,216	2,694	2,218	3,841	9,741	5,015	5,249	2,810	3,563	4,316
MEAN	122	134	104	86.9	79.2	124	325	162	175	90.6	115	144
MAX	156	197	132	90	88	172	904	260	424	183	334	401
MIN	105	103	92	82	76	86	107	117	83	73	72	73
CFSM	.67	.74	.57	.48	.44	.69	1.80	.90	.97	.50	.64	.80
IN.	.78	.83	.66	.55	.46	.79	2.00	1.03	1.08	.58	.73	.89

CAL YR 1973 TOTAL 89,254 MEAN 245 MAX 2,350 MIN 87 CFSM 1.35 IN 18.34
WTR YR 1974 TOTAL 50,456 MEAN 138 MAX 904 MIN 72 CFSM .76 IN 10.37

05395000 WISCONSIN RIVER AT MERRILL, WIS.

LOCATION.--LAT 45°10'41", LONG 89°40'52", ON LINE BETWEEN SECS.12 AND 13, T.31 N., R.6 E., LINCOLN COUNTY, ON LEFT BANK 300 FT (91 M) DOWNSTREAM FROM HIGHWAY 51 BRIDGE AT EAST END OF MERRILL, AND 0.5 MI (0.8 KM) DOWNSTREAM FROM PRAIRIE RIVER.

DRAINAGE AREA.--2,780 MI^2 (7,200 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--NOVEMBER 1902 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,228.85 FT (374.553 M) ABOVE MEAN SEA LEVEL. PRIOR TO JUNE 18, 1903, NONRECORDING GAGE AT DIFFERENT DATUM. JUNE 18, 1903, TO SEPT. 10, 1914, NONRECORDING GAGE AT PRESENT DATUM.

AVERAGE DISCHARGE.--71 YEARS (1903-74), 2,690 FT^3/S (76.18 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 9,140 FT^3/S (259 M^3/S) APR. 13, GAGE HEIGHT, 8.60 FT (2.621 M); MINIMUM, 680 FT^3/S (19.3 M^3/S) MAR. 23, GAGE HEIGHT, 3.66 FT (1.116 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 49,400 FT^3/S (1,400 M^3/S) AUG. 31, 1941, GAGE HEIGHT, 18.26 FT (5.566 M) FROM RATING CURVE EXTENDED ABOVE 20,000 FT^3/S (566 M^3/S); MINIMUM, ABOUT 90 FT^3/S (2.55 M^3/S) SEPT. 26, 1908, GAGE HEIGHT, 2.45 FT (0.747 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. FLOW REGULATED BY 20 RESERVOIRS (SEE P. 141) AND 9 POWERPLANTS ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 805: DRAINAGE AREA. WSP 1308: 1904-7, 1909-11, 1913. WSP 1508: 1908, 1915-16(M), 1917, 1920-21(M), 1925(M), 1930, 1935-36.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8 TO FEB. 15, FEB. 17-27, MAR. 20-29.)

4.0	970	6.0	3,640
4.5	1,450	7.0	5,440
5.0	2,020	9.0	10,100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,520	2,810	2,100	2,000	2,000	2,010	2,060	1,780	2,560	1,720	1,630	1,780
2	2,610	2,570	2,200	2,000	2,000	1,950	2,190	1,640	2,180	1,870	1,770	1,860
3	2,450	2,640	2,260	2,000	2,000	1,950	2,530	1,590	2,000	1,720	2,290	1,810
4	2,380	2,460	2,600	2,000	2,000	2,060	3,670	1,800	1,850	1,310	2,630	1,690
5	2,460	2,510	2,380	2,000	2,000	2,320	3,250	1,690	1,850	1,270	2,470	1,690
6	2,360	2,460	2,290	2,000	2,000	2,390	3,120	1,560	1,500	1,590	2,250	1,710
7	2,230	2,490	2,210	2,000	1,800	2,900	3,650	1,610	2,050	1,980	2,020	1,810
8	2,330	2,510	2,100	2,000	1,900	2,760	3,570	1,560	4,760	1,720	1,670	1,810
9	2,610	2,120	2,100	2,000	2,000	2,700	3,390	1,400	5,680	1,790	1,940	1,940
10	2,410	2,190	2,100	2,100	2,000	2,110	3,500	1,460	6,560	1,910	1,790	2,660
11	2,720	2,380	2,100	2,200	2,000	2,140	3,600	2,240	6,280	1,700	2,050	3,530
12	2,620	2,150	2,200	2,000	2,000	2,550	5,430	2,310	5,340	1,720	1,880	3,270
13	2,370	2,340	2,200	2,000	1,900	2,300	7,460	2,260	3,650	1,760	1,750	2,280
14	2,460	2,240	2,200	2,000	1,900	2,140	8,610	2,270	2,370	1,950	1,930	2,480
15	2,620	2,130	2,200	2,000	1,900	2,220	5,980	2,580	2,590	1,830	1,910	2,200
16	2,340	2,270	2,200	2,000	1,780	2,340	5,010	2,920	3,120	1,790	1,860	1,960
17	2,470	2,070	2,200	2,000	1,900	2,150	3,890	2,500	2,420	1,870	2,170	2,100
18	2,430	2,200	2,200	2,000	2,000	1,860	3,640	2,040	2,080	1,840	2,070	1,830
19	2,400	2,220	2,200	1,900	2,000	1,770	2,890	1,780	2,160	1,820	1,680	1,880
20	2,410	2,360	2,300	1,800	2,000	1,700	2,870	1,740	2,150	1,790	1,690	1,900
21	2,300	2,270	2,200	2,000	2,000	1,600	3,230	1,620	1,920	1,730	1,860	1,910
22	2,300	2,670	2,300	2,100	1,900	1,600	3,250	1,980	1,880	1,730	1,920	1,810
23	2,500	2,450	2,200	2,100	1,900	1,500	3,240	2,360	1,810	1,740	1,810	1,790
24	2,090	2,210	2,200	2,100	1,900	1,500	3,200	2,240	1,640	1,680	1,700	1,730
25	2,350	2,380	2,000	2,100	1,900	1,500	2,770	1,990	1,750	2,330	1,660	1,760
26	2,590	2,120	2,000	2,000	1,800	1,600	2,290	1,680	1,940	2,120	2,000	1,880
27	2,310	2,780	2,000	2,000	1,800	1,600	2,340	1,780	1,700	1,980	1,690	1,800
28	2,880	2,700	2,200	2,100	1,700	1,700	2,390	1,820	1,610	1,690	1,820	1,870
29	2,530	2,560	2,100	2,000	------	1,800	2,200	1,860	1,800	1,650	1,770	1,900
30	2,890	2,090	2,000	1,900	------	1,890	2,090	1,710	1,600	2,000	1,840	1,970
31	2,840	------	2,000	2,100	------	1,980	------	2,480	------	1,930	1,940	------
TOTAL	76,780	71,350	67,540	62,500	53,980	62,590	107,310	60,250	80,800	55,530	59,460	60,610
MEAN	2,477	2,378	2,179	2,016	1,928	2,019	3,577	1,944	2,693	1,791	1,918	2,020
MAX	2,890	2,810	2,600	2,200	2,000	2,900	8,610	2,920	6,560	2,330	2,630	3,530
MIN	2,090	2,070	2,000	1,800	1,700	1,500	2,060	1,400	1,500	1,270	1,630	1,690

CAL YR 1973 TOTAL 1,283,670 MEAN 3,517 MAX 20,300 MIN 1,690
WTR YR 1974 TOTAL 818,700 MEAN 2,243 MAX 8,610 MIN 1,270

05397500 EAU CLAIRE RIVER AT KELLY, WIS.

LOCATION.--LAT 44°55'06", LONG 89°33'00", ON LINE BETWEEN SECS.9 AND 10, T.28 N., R.8 E., MARATHON COUNTY, ON RIGHT BANK 50 FT (15 M) DOWNSTREAM FROM COUNTY HIGHWAY SS BRIDGE, 0.7 MI (1.1 KM) NORTHEAST OF KELLY, 1.3 MI (2.1 KM) UPSTREAM FROM BIG SANDY CREEK, 4.5 MI (7.2 KM) UPSTREAM FROM MOUTH, AND 5.0 MI (8.0 KM) SOUTHEAST OF WAUSAU.

DRAINAGE AREA.--326 MI^2 (844 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO NOVEMBER 1926, AUGUST 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,177.88 FT (359.018 M) ABOVE MEAN SEA LEVEL. PRIOR TO SEPT. 17, 1953, NONRECORDING GAGE AT SAME SITE AT DATUM 1.00 FT (0.30 M) HIGHER.

AVERAGE DISCHARGE.--47 YEARS, 169 FT^3/S (4.786 M^3/S), 10.41 IN/YR (264 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,910 FT^3/S (54.1 M^3/S) APR. 13, GAGE HEIGHT, 4.68 FT (1.426 M); MINIMUM DISCHARGE, 26 FT^3/S (0.74 M^3/S) NOV. 6, GAGE HEIGHT, 0.89 FT (0.271 M), RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 8,300 FT^3/S (235 M^3/S) AUG. 21, 1926, GAGE HEIGHT, 8.4 FT (2.56 M) FROM GRAPH BASED ON GAGE READINGS, FROM RATING CURVE EXTENDED ABOVE 6,000 FT^3/S (170 M^3/S); MINIMUM OBSERVED, 8 FT^3/S (0.23 M^3/S) JULY 17, 1944, GAGE HEIGHT, 0.17 FT (0.052 M), PROBABLY RESULT OF TEMPORARY REGULATION.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1508: 1915, 1916-17(M), 1919-26(M), 1940(M), 1945(M), 1950(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED AUG. 10 TO SEPT. 16; STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-19, DEC. 7-APR. 1.)

0.9	20	3.0	780
1.2	83	4.0	1,390
1.5	157	5.0	2,140
2.0	325		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	132	113	80	92	90	110	196	206	92	85	74
2	115	140	138	80	92	92	167	181	216	79	79	72
3	111	139	144	80	92	92	344	173	184	76	82	67
4	113	129	118	80	92	98	673	167	153	89	233	63
5	111	113	106	80	90	120	570	172	134	84	413	61
6	111	72	97	82	90	210	506	168	124	72	414	60
7	109	90	94	82	90	400	595	153	162	64	273	58
8	107	80	92	82	90	680	702	142	353	60	186	56
9	110	78	90	82	90	600	689	134	403	55	135	65
10	118	76	90	82	90	520	637	128	488	53	114	82
11	142	76	88	82	90	460	701	200	510	51	110	161
12	138	76	88	82	90	400	1,300	316	401	49	116	222
13	133	80	88	82	90	340	1,830	310	294	45	119	251
14	125	84	86	84	90	270	1,820	291	227	47	111	270
15	118	90	86	88	88	230	1,410	292	244	51	97	251
16	112	88	84	90	88	210	847	289	229	55	106	206
17	111	86	84	92	88	190	597	263	200	48	130	167
18	121	90	84	94	88	180	488	225	182	46	126	140
19	107	98	84	94	88	160	421	192	167	48	101	126
20	104	106	84	94	86	150	380	168	149	46	86	113
21	103	133	84	94	86	140	347	151	133	47	87	105
22	103	176	84	94	86	130	337	149	117	43	195	95
23	102	195	84	92	86	120	334	167	105	44	213	86
24	101	171	84	92	86	110	304	167	93	44	198	81
25	101	164	84	92	86	110	275	155	86	136	142	82
26	99	156	84	92	86	100	247	143	78	311	109	77
27	104	152	84	92	86	96	228	131	73	292	91	75
28	121	153	82	92	88	94	218	133	69	216	80	77
29	132	153	82	92	------	92	226	137	67	159	73	81
30	133	130	82	92	------	94	202	133	86	121	70	97
31	132	------	80	92	------	98	------	134	------	98	73	------
TOTAL	3,567	3,506	2,852	2,708	2,484	6,676	17,505	5,760	5,933	2,721	4,447	3,421
MEAN	115	117	92.0	87.4	88.7	215	584	186	198	87.8	143	114
MAX	142	195	144	94	92	680	1,830	316	510	311	414	270
MIN	99	72	80	80	86	90	110	128	67	43	70	56
CFSM	.35	.36	.28	.27	.27	.66	1.79	.57	.61	.27	.44	.35
IN.	.41	.40	.33	.31	.28	.76	2.00	.66	.68	.31	.51	.39

CAL YR 1973 TOTAL 141,284 MEAN 387 MAX 5,000 MIN 72 CFSM 1.19 IN 16.12
WTR YR 1974 TOTAL 61,580 MEAN 169 MAX 1,830 MIN 43 CFSM .52 IN 7.03

PEAK DISCHARGE (BASE, 1,500 FT^3/S).--APR. 13 (0400) 1,910 FT^3/S (4.68 FT).

05398000 WISCONSIN RIVER AT ROTHSCHILD, WIS.

LOCATION.--LAT 44°53'09", LONG 89°38'05", IN SEC.26, T.28 N., R.7 E., MARATHON COUNTY, ON LEFT BANK AT ROTHSCHILD, 0.5 MI (0.8 KM) DOWNSTREAM FROM ROTHSCHILD DAM, 1.7 MI (2.7 KM) NORTH OF BRIDGE ON U.S. HIGHWAY 51, 2.0 MI (3.2 KM) DOWNSTREAM FROM EAU CLAIRE RIVER, AND 5.0 MI (8.0 KM) UPSTREAM FROM BLACK CREEK.

DRAINAGE AREA.--4,000 MI^2 (10,360 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--OCTOBER 1944 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,135.86 FT (346.210 M) ABOVE MEAN SEA LEVEL. AUXILIARY WATER-STAGE RECORDER IN MOSINEE POND 8 MI (12.9 KM) DOWNSTREAM. PRIOR TO JULY 23, 1964, NONRECORDING AUXILIARY GAGE AT SAME SITE AND DATUM, READ HOURLY.

AVERAGE DISCHARGE.--30 YEARS, 3,438 FT^3/S (97.36 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 15,400 FT^3/S (436 M^3/S) APR. 14, GAGE HEIGHT, 10.30 FT (3.139 M); MINIMUM DAILY, 1,450 FT^3/S (41.1 M^3/S) MAR. 24.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 49,200 FT^3/S (1,390 M^3/S) APR. 12, 1965, MAR. 31, 1967, GAGE HEIGHT, 18.46 FT (5.627 M); MINIMUM DAILY, 680 FT^3/S (19.3 M^3/S) OCT. 17, 1948.
FLOOD OF SEPT. 1, 1941, REACHED STAGE OF 22.3 FT (6.80 M) FROM TAILWATER DATA AT ROTHSCHILD DAM, DISCHARGE, 75,000 FT^3/S (2,120 M^3/S) FROM RATING CURVE EXTENDED ABOVE 45,000 FT^3/S (1,270 M^3/S), BY LOGARITHMIC PLOTTING.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, OR DISCHARGE BELOW 1,500 FT^3/S (42.5 M^3/S), WHICH ARE FAIR. FLOW REGULATED BY 20 RESERVOIRS (SEE P. 141) AND 12 POWERPLANTS ABOVE STATION.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,710	3,290	2,640	2,500	2,300	1,870	2,850	2,750	3,610	2,190	2,150	2,140
2	3,040	3,280	2,400	2,300	2,100	1,730	3,120	2,040	3,690	2,450	2,240	2,270
3	2,830	3,010	2,630	2,500	2,100	1,830	4,020	1,970	3,120	2,370	2,210	2,470
4	2,960	2,680	2,950	2,400	2,300	2,250	7,380	1,950	2,970	1,800	3,270	2,330
5	2,410	2,950	3,040	2,100	2,200	2,610	6,570	2,180	2,730	2,000	3,480	2,010
6	2,870	2,880	2,790	2,500	2,200	3,440	5,460	2,370	2,460	2,100	3,520	2,050
7	2,280	2,800	2,620	2,400	2,000	5,080	6,950	2,350	2,720	2,200	3,180	1,920
8	2,550	2,880	2,420	2,300	2,200	5,410	7,040	2,180	5,630	2,390	2,370	2,030
9	2,840	2,870	2,510	2,300	2,000	4,290	6,580	2,090	8,270	2,230	2,320	2,390
10	2,840	1,930	2,640	2,400	1,900	3,560	6,350	1,840	10,400	2,110	2,110	2,900
11	2,740	2,440	1,890	2,600	2,200	2,560	6,800	2,500	9,620	2,120	2,070	3,620
12	3,000	2,610	2,520	2,300	2,100	3,470	9,990	4,070	8,130	2,100	2,630	4,540
13	2,700	2,570	2,640	2,100	2,100	3,380	14,100	3,840	5,560	1,820	2,220	3,670
14	2,560	2,630	2,320	2,300	2,100	3,150	14,100	3,710	4,330	2,400	2,210	3,360
15	2,920	2,440	2,230	2,200	2,200	3,140	10,500	4,170	4,040	2,330	2,270	3,320
16	2,610	2,540	2,100	2,300	2,100	2,920	7,930	4,770	4,710	2,120	2,620	2,810
17	2,670	2,420	2,310	2,300	1,900	2,570	6,250	4,060	3,950	2,160	2,250	2,880
18	2,840	2,230	2,400	2,200	2,200	1,990	5,280	3,460	3,490	2,250	2,350	2,740
19	2,620	2,810	2,400	2,100	2,100	2,300	4,620	2,740	3,110	2,280	2,410	2,650
20	2,280	2,690	2,500	1,900	2,250	2,210	3,790	2,560	3,270	1,890	2,020	2,670
21	2,440	2,620	2,600	2,400	2,170	2,150	4,220	2,470	2,970	1,810	2,290	2,340
22	2,730	3,090	2,400	2,300	2,220	2,180	4,310	2,560	2,590	2,160	2,510	2,120
23	2,520	3,270	2,500	2,400	1,810	1,520	4,520	3,980	2,350	2,070	2,400	2,320
24	2,690	2,930	2,400	2,500	1,780	1,450	3,980	3,590	2,260	1,980	2,180	2,310
25	2,340	2,720	2,500	2,500	2,090	1,910	3,800	2,980	2,100	3,060	1,970	2,450
26	2,730	2,790	2,600	2,100	2,110	1,980	3,250	2,530	2,330	3,020	2,270	2,240
27	2,490	3,140	2,800	2,300	2,160	1,690	3,010	2,590	2,270	2,590	2,180	2,370
28	2,730	3,350	2,700	2,500	1,940	1,770	2,860	2,720	2,210	2,420	2,050	2,030
29	3,290	3,220	2,700	2,300	------	2,020	3,230	2,470	1,960	2,160	2,050	2,100
30	3,100	2,960	2,300	2,300	------	2,090	3,120	2,690	2,010	2,410	2,210	2,520
31	3,060	------	2,300	2,400	------	2,220	------	3,050	------	2,350	2,060	------
TOTAL	84,390	84,040	77,750	72,000	58,830	80,740	175,980	89,230	118,860	69,340	74,070	77,570
MEAN	2,722	2,801	2,508	2,323	2,101	2,605	5,866	2,878	3,962	2,237	2,389	2,586
MAX	3,290	3,350	3,040	2,600	2,300	5,410	14,100	4,770	10,400	3,060	3,520	4,540
MIN	2,280	1,930	1,890	1,900	1,780	1,450	2,850	1,840	1,960	1,800	1,970	1,920

CAL YR 1973 TOTAL 1,944,020 MEAN 5,326 MAX 39,300 MIN 1,890
WTR YR 1974 TOTAL 1,062,800 MEAN 2,912 MAX 14,100 MIN 1,450

05399500 BIG EAU PLEINE RIVER NEAR STRATFORD, WIS.

LOCATION.--LAT 44°49'19", LONG 90°04'46", ON LINE BETWEEN SEC.13, T.27 N., R.3 E., AND SEC.18, T.27 N., R.4 E., MARATHON COUNTY, ON LEFT BANK 15 FT (4.6 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 97, 1.0 MI (1.6 KM) NORTH OF STRATFORD, AND 1.4 MI (2.3 KM) DOWNSTREAM FROM SMALL TRIBUTARY.

DRAINAGE AREA.--224 MI^2 (580 KM^2).

PERIOD OF RECORD.--JULY 1914 TO DECEMBER 1925, APRIL 1937 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 1,154.24 FT (351.812 M) ABOVE MEAN SEA LEVEL. JULY 24, 1914, TO DEC. 31, 1925, NONRECORDING GAGE AT SITE 0.5 MI (0.8 KM) UPSTREAM AT DIFFERENT DATUM. APR. 30, 1937, TO SEPT. 15, 1938, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--48 YEARS (1914-25, 1937-74), 172 FT^3/S (4.871 M^3/S), 10.43 IN/YR (265 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 5,520 FT^3/S (156 M^3/S) APR. 4, GAGE HEIGHT, 13.11 FT (3.996 M); MINIMUM DISCHARGE, 1.2 FT^3/S (0.034 M^3/S) JULY 18, GAGE HEIGHT, 2.27 FT (0.692 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 41,000 FT^3/S (1,160 M^3/S) SEPT. 9, 1938, GAGE HEIGHT, 24.5 FT (7.47 M), FROM FLOODMARKS, BASED ON RATING CURVE EXTENDED ABOVE 24,000 FT^3/S (680 M^3/S); NO FLOW AUG. 17, 1947, JAN. 22 TO FEB. 5, 1961.
FLOOD OF JUNE 5, 1914, REACHED A STAGE OF 20.7 FT (6.31 M), FROM FLOODMARKS, DISCHARGE, 40,000 FT^3/S (1,130 M^3/S), FORMER SITE AND DATUM.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1308: 1917, 1920-22, 1926, 1946, 1948, 1950. WSP 1508: 1915-25(M), 1937, 1946(M), 1948(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(RATE OF CHANGE IN STAGE USED AS FACTOR APR. 3-8, JUNE 8-10; STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 7-19, DEC. 4 TO APR. 1.)

2.0	0	3.5	88	8.0	1,500
2.4	3.5	4.0	175	10.0	2,690
2.6	12	5.0	410	12.0	4,400
3.0	38	6.0	690		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	30	9.8	8.8	10	64	31	47	11	3.8	3.1
2	8.1	19	24	9.8	8.8	11	409	34	45	9.8	3.7	2.7
3	6.5	17	22	9.8	8.8	30	2,130	31	42	9.2	4.0	2.5
4	6.4	16	20	9.8	8.8	70	3,190	27	39	9.3	5.6	2.3
5	5.4	14	18	9.6	8.8	200	1,500	34	32	8.1	5.6	2.2
6	5.1	12	17	9.6	8.8	450	1,860	40	26	7.2	13	2.2
7	5.3	10	16	9.6	8.8	1,400	2,620	39	253	6.7	14	7.9
8	5.3	9.6	16	9.6	9.0	1,100	1,300	37	859	6.0	10	21
9	6.1	9.2	15	9.6	9.0	780	770	33	1,360	5.7	7.8	15
10	7.9	8.6	14	9.6	9.0	620	771	44	1,320	5.6	12	15
11	15	8.8	13	9.4	9.0	520	762	170	731	5.4	24	7.0
12	16	8.8	13	9.4	9.0	440	1,370	246	370	5.0	15	12
13	14	9.0	13	9.4	9.0	360	1,390	170	198	4.8	11	15
14	12	9.8	12	9.4	9.0	300	705	265	119	4.5	8.7	8.0
15	9.8	12	12	9.4	9.0	240	418	281	113	4.1	7.7	5.7
16	8.2	13	12	9.4	9.0	200	266	227	78	3.6	17	7.4
17	13	14	12	9.4	9.0	160	185	145	54	6.1	15	5.8
18	5.8	15	12	9.4	9.2	140	137	100	44	1.7	9.2	4.8
19	9.1	16	11	9.2	9.2	110	102	72	38	2.5	6.9	5.3
20	8.1	17	11	9.2	9.2	90	84	56	32	3.2	5.9	5.8
21	6.4	26	11	9.2	9.2	76	82	49	28	2.9	5.9	8.6
22	6.1	51	11	9.2	9.2	62	77	214	24	3.0	5.7	6.4
23	6.5	57	11	9.0	9.2	54	71	220	20	2.8	4.7	4.2
24	6.9	41	11	9.0	9.4	46	62	105	18	2.7	4.1	3.6
25	7.5	33	11	9.0	9.4	40	54	67	16	12	3.8	4.2
26	7.1	30	11	9.0	9.6	35	48	49	14	14	3.8	3.3
27	8.3	31	11	8.8	9.8	32	43	39	13	11	3.4	7.0
28	16	44	11	8.8	10	30	41	35	12	7.1	3.0	6.6
29	18	53	11	8.8	------	29	38	43	11	5.4	2.9	5.6
30	19	37	10	8.8	------	31	33	56	13	4.4	2.7	4.2
31	22	------	10	8.8	------	38	------	53	------	4.0	3.5	------
TOTAL	301.9	663.8	432	288.8	255.0	7,704	20,582	3,012	5,969	188.8	243.4	204.4
MEAN	9.74	22.1	13.9	9.32	9.11	249	686	97.2	199	6.09	7.85	6.81
MAX	22	57	30	9.8	10	1,400	3,190	281	1,360	14	24	21
MIN	5.1	8.6	10	8.8	8.8	10	33	27	11	1.7	2.7	2.2
CFSM	.04	.10	.06	.04	.04	1.11	3.06	.43	.89	.03	.04	.03
IN.	.05	.11	.07	.05	.04	1.28	3.42	.50	.99	.03	.04	.03

CAL YR 1973 TOTAL 94,571.7 MEAN 259 MAX 6,800 MIN 4.4 CFSM 1.16 IN 15.71
WTR YR 1974 TOTAL 39,845.1 MEAN 109 MAX 3,190 MIN 1.7 CFSM .49 IN 6.62

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 4	0130	13.11	5,520	4- 7	0515	10.61	3,120

05400600 LITTLE PLOVER RIVER NEAR ARNOTT, WIS.

LOCATION.--LAT 44°28'05", LONG 89°29'20", IN NE 1/4 SEC.24, T.23 N., R.8 E., PORTAGE COUNTY, 150 FT (46 M) DOWNSTREAM FROM BRIDGE ON TOWN ROAD 2.2 MI (3.6 KM) NORTHWEST OF ARNOTT AND 3.5 MI (5.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--1.5 MI^2 (3.89 KM^2), APPROXIMATELY, OF WHICH A PORTION IS NONCONTRIBUTING.

PERIOD OF RECORD.--JULY 1959 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND PARSHALL FLUME. DATUM OF GAGE IS 1,087.37 FT (331.430 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES). PRIOR TO APRIL 1960, NONRECORDING GAGE AT SAME SITE AND DATUM 0.26 FT (0.08 M) HIGHER.

AVERAGE DISCHARGE.--15 YEARS, 4.02 FT^3/S (0.114 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 23 FT^3/S (0.651 M^3/S) MAR. 3, GAGE HEIGHT, 2.15 FT (0.655 M); MINIMUM, 2.4 FT^3/S (0.068 M^3/S) MAR. 24, GAGE HEIGHT, 0.66 FT (0.201 M), RESULT OF FREEZEUP.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 72 FT^3/S (2.04 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 3.25 FT (0.991 M); MINIMUM, 0.8 FT^3/S (0.023 M^3/S) FOR MANY DAYS IN JULY, AUGUST, AND SEPTEMBER 1959.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (SHIFTING-CONTROL METHOD USED OCT. 1 TO NOV. 22, JAN. 16-31, MAR. 25 TO APR. 24, JULY 19 TO SEPT. 12.)

0.7	2.3	1.6	8.4
1.0	4.0	2.0	19
1.3	6.0	2.8	51

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	7.7	7.8	5.4	5.7	5.3	5.8	9.4	7.0	5.2	4.2	4.0
2	7.0	7.3	8.0	5.4	5.7	5.6	7.4	8.9	6.9	5.2	4.2	4.0
3	6.9	7.6	8.0	5.4	5.6	13	13	8.6	7.2	5.2	4.1	3.9
4	7.4	7.1	8.0	5.4	5.5	11	12	7.8	7.5	5.1	4.0	3.9
5	7.0	6.7	8.0	5.4	5.5	10	11	9.6	7.2	5.1	4.0	3.9
6	7.0	7.2	7.6	5.4	5.5	11	9.9	8.2	7.2	5.0	3.9	3.9
7	7.0	7.1	6.2	5.4	5.5	9.8	14	8.4	7.2	4.9	3.9	3.9
8	6.9	6.9	7.0	5.2	5.6	8.0	8.2	8.2	7.2	4.8	3.8	5.0
9	6.9	6.7	7.4	5.2	5.5	7.9	7.2	7.8	7.2	4.7	3.9	7.3
10	7.0	6.6	6.8	5.2	5.4	7.4	6.9	7.7	7.1	4.9	4.5	7.5
11	7.1	7.0	6.8	5.2	5.5	7.3	7.4	15	7.4	4.6	4.6	7.8
12	7.3	7.0	6.8	5.2	5.5	7.1	17	11	7.5	4.7	4.9	8.7
13	6.6	7.1	7.0	5.2	5.4	7.4	13	11	7.0	4.5	4.3	9.3
14	6.8	7.3	6.6	5.2	5.4	7.0	9.4	15	6.9	4.4	4.5	10
15	6.6	7.3	6.4	5.0	5.3	7.0	9.5	12	6.9	4.3	4.2	10
16	6.4	7.3	6.0	5.2	5.4	7.1	8.0	10	7.0	4.2	4.6	10
17	6.6	7.7	6.0	5.1	5.4	6.9	7.1	9.3	7.0	4.3	4.3	8.0
18	6.7	8.0	6.2	5.3	5.5	6.9	6.9	9.0	6.9	4.2	4.0	4.6
19	6.8	6.8	6.0	5.2	5.4	6.7	6.5	7.8	6.5	4.1	4.3	4.7
20	6.5	6.8	5.8	5.5	5.4	6.5	7.2	8.3	6.0	4.0	4.0	4.7
21	6.7	8.3	5.8	5.4	5.5	6.8	6.5	8.4	6.1	4.0	4.2	4.6
22	6.7	8.4	6.0	5.4	5.7	6.4	6.3	9.8	6.0	4.2	4.6	4.5
23	6.7	8.6	5.8	5.4	5.4	6.1	6.5	8.8	5.8	3.9	4.2	4.6
24	7.3	8.6	5.8	5.4	5.3	5.6	6.1	7.9	5.8	3.9	4.1	4.7
25	6.6	8.6	6.0	5.4	5.3	5.3	7.8	7.2	5.8	8.1	4.1	4.8
26	6.3	8.4	6.4	5.6	5.3	5.3	10	7.3	5.8	5.4	4.1	4.7
27	7.5	8.6	6.6	5.6	5.4	5.2	10	7.1	5.6	4.9	3.9	4.6
28	7.9	8.6	6.8	5.5	5.3	5.4	9.6	8.3	5.5	4.7	3.9	4.9
29	8.9	8.2	6.4	5.6	------	5.5	8.7	8.6	5.5	4.5	3.9	5.4
30	7.5	8.0	5.8	5.7	------	6.0	8.7	8.1	5.4	4.4	4.1	4.8
31	7.8	------	6.0	5.6	------	5.9	------	7.4	------	4.2	4.3	------
TOTAL	217.3	227.5	205.8	166.1	152.9	222.4	267.6	281.9	198.1	145.6	129.6	172.7
MEAN	7.01	7.58	6.64	5.36	5.46	7.17	8.92	9.09	6.60	4.70	4.18	5.76
MAX	8.9	8.6	8.0	5.7	5.7	13	17	15	7.5	8.1	4.9	10
MIN	6.3	6.6	5.8	5.0	5.3	5.2	5.8	7.1	5.4	3.9	3.8	3.9

CAL YR 1973 TOTAL 3,267.0 MEAN 8.95 MAX 50 MIN 4.7
WTR YR 1974 TOTAL 2,387.5 MEAN 6.54 MAX 17 MIN 3.8

NOTE.--NO GAGE-HEIGHT RECORD NOV. 23 TO JAN. 15.

05400650 LITTLE PLOVER RIVER AT PLOVER, WIS.

LOCATION.--LAT 44°28'26", LONG 89°31'44", IN SW 1/4 SEC.14, T.23 N., R.8 E., PORTAGE COUNTY, ON RIGHT BANK AT BRIDGE ON TOWN ROAD, 1.0 MI (1.6 KM) NORTHEAST OF PLOVER AND 1.2 MI (1.9 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--15 MI^2 (39 KM^2), APPROXIMATELY, OF WHICH A LARGE PORTION IS NONCONTRIBUTING.

PERIOD OF RECORD.--JULY 1959 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND PARSHALL FLUME. DATUM OF GAGE IS 1,068.34 FT (325.630 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES). PRIOR TO MAY 1960, NONRECORDING GAGE AT SAME SITE AND DATUM 0.88 FT (0.268 M) LOWER.

AVERAGE DISCHARGE.--15 YEARS, 10.72 FT^3/S (0.304 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 28 FT^3/S (0.79 M^3/S) APR. 4, MAY 11; MINIMUM, 6.6 FT^3/S (0.19 M^3/S) SEPT. 8, GAGE HEIGHT, 0.82 FT (0.250 M); MINIMUM GAGE HEIGHT, 0.66 FT (0.201 M) JULY 24, RESULT OF TEMPORARY DAM AT FLUME ENTRANCE.

PERIOD OF RECORD: MAXIMUM DISCHARGE, ABOUT 99 FT^3/S (2.80 M^3/S) MAR. 7, 1973; MINIMUM, 2.4 FT^3/S (0.068 M^3/S) MAY 23, 1965, GAGE HEIGHT, 0.41 FT (0.125 M), RESULT OF TEMPORARY DAM AT FLUME ENTRANCE; MINIMUM DAILY, 4.3 FT^3/S (0.12 M^3/S) AUG. 19, 20, 1959.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED OCT. 1 TO MAR. 3.)

0.8	7.1	1.5	19
1.0	10	2.0	29

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	14	11	8.6	9.1	11	20	18	11	12	7.5
2	14	14	14	10	9.6	9.2	12	20	17	10	9.8	7.4
3	14	14	14	10	9.1	14	19	19	17	11	8.4	7.5
4	14	14	14	10	8.8	19	23	19	17	11	8.1	7.2
5	14	14	14	10	8.6	17	18	21	18	11	8.2	7.2
6	14	14	13	9.8	8.6	19	20	21	18	10	8.1	7.2
7	13	14	13	9.6	8.5	18	22	20	18	9.0	7.9	7.3
8	13	14	13	9.6	8.6	15	19	21	17	10	7.8	7.3
9	13	14	13	9.6	8.6	14	18	20	19	10	7.9	7.3
10	13	13	13	9.4	8.6	14	18	21	20	10	8.8	7.4
11	14	13	13	9.2	9.0	14	18	27	19	9.1	9.2	7.4
12	13	14	13	9.0	8.8	14	25	25	16	9.2	10	8.2
13	13	14	13	9.0	8.6	14	25	23	15	9.4	8.8	8.3
14	13	14	12	9.0	9.0	14	22	27	14	9.2	8.5	7.9
15	12	15	12	8.8	9.4	14	22	25	15	9.1	8.6	7.7
16	12	14	12	8.6	9.0	14	21	22	15	8.5	9.0	7.4
17	12	15	11	8.5	9.2	14	20	22	14	8.5	8.8	7.6
18	12	15	11	8.4	9.4	14	21	21	14	8.4	8.4	7.5
19	12	15	11	7.8	9.2	13	20	20	14	8.2	8.5	7.6
20	12	15	11	8.5	9.4	13	22	20	14	8.1	8.8	7.6
21	12	16	11	8.5	9.4	13	21	20	14	8.1	9.0	7.6
22	12	15	11	8.5	9.6	13	20	22	14	8.4	9.6	7.5
23	12	15	11	8.5	8.8	12	21	20	13	8.1	8.4	7.6
24	13	15	11	8.5	8.8	9.8	21	19	13	8.4	8.4	7.7
25	12	15	11	8.5	8.8	9.6	22	19	13	19	8.2	7.7
26	12	15	12	8.6	8.8	9.6	21	19	13	15	8.1	7.7
27	13	15	12	8.8	9.4	9.0	21	20	13	13	7.8	7.6
28	14	14	12	8.5	9.2	8.6	21	20	12	13	7.7	7.9
29	15	14	12	8.5	------	8.6	20	22	12	12	7.7	8.7
30	15	14	11	8.6	------	9.2	20	20	11	12	7.7	8.3
31	15	------	11	8.6	------	9.4	------	19	------	12	7.9	------
TOTAL	406	432	379	279.9	251.4	398.1	604	654	457	319.7	266.1	228.8
MEAN	13.1	14.4	12.2	9.03	8.98	12.8	20.1	21.1	15.2	10.3	8.58	7.63
MAX	15	16	14	11	9.6	19	25	27	20	19	12	8.7
MIN	12	13	11	7.8	8.5	8.6	11	19	11	8.1	7.7	7.2

CAL YR 1973 TOTAL 6,716.0 MEAN 18.4 MAX 81 MIN 11
WTR YR 1974 TOTAL 4,676.0 MEAN 12.8 MAX 27 MIN 7.2

PEAK DISCHARGE (BASE, 22 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 4	0100	1.91	27	4-13	0100	1.92	27
4- 4	0200	1.94	28	5-11	0600	1.94	28
4- 6	0200	1.77	24	7-25	1100	1.80	25

NOTE.--NO GAGE-HEIGHT RECORD DEC. 4 TO JAN. 14.

05400800 WISCONSIN RIVER AT WISCONSIN RAPIDS, WIS.

LOCATION.--LAT 44°22'05", LONG 89°51'30", IN SW 1/4 SEC.24, T.22 N., R.5 E., WOOD COUNTY, AT CENTRALIA POWERPLANT OF NEKOOSA-EDWARDS PAPER, INC., 1.6 MI (2.6 KM) DOWNSTREAM FROM CHICAGO AND NORTHWESTERN RAILWAY BRIDGE IN WISCONSIN RAPIDS.

DRAINAGE AREA.--~~5,400~~ 5906.56 12/13/76 Cwll MI² (~~14,000 KM²~~), ~~APPROXIMATELY.~~

PERIOD OF RECORD.--MAY 1914 TO MARCH 1950 (PUBLISHED AS "NEAR NEKOOSA"), OCTOBER 1957 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDERS ON HEADWATER AND TAILWATER. ELEVATION OF POWERPLANT POND IS 980 FT (299 M) AND DATUM OF POWERPLANT GAGES IS 887.83 FT (270.611 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.). MAY 1914 TO MARCH 1950, AT SITE 7.0 MI (11.3 KM) DOWNSTREAM AT DIFFERENT DATUM.

AVERAGE DISCHARGE.--52 YEARS (1914-50, 1957-74), 4,953 FT³/S (140.3 M³/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 21,100 FT³/S (598 M³/S) APR. 14; MINIMUM DAILY, 1,800 FT³/S (51.0 M³/S) JULY 4.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 70,400 FT³/S (1,990 M³/S) SEPT. 12, 1938, GAGE HEIGHT, 19.10 FT (5.822 M), FROM RATING CURVE EXTENDED ABOVE 58,000 FT³/S (1,640 M³/S); MINIMUM, 26 FT³/S (0.74 M³/S) SEPT. 7, 1942; MINIMUM DAILY, 165 FT³/S (4.67 M³/S) AUG. 12, 1934.

REMARKS.--RECORDS GOOD. DISCHARGE COMPUTED FROM POWERPLANT RECORDS ON BASIS OF LOAD-DISCHARGE RATING OF HYDROELECTRIC UNITS AS DEVELOPED BY GEOLOGICAL SURVEY AND TAINTER-GATE RATINGS AND SPILLWAY RATINGS BASED ON THEORETICAL FORMULAS AND DISCHARGE MEASUREMENTS. FLOW REGULATED BY 21 RESERVOIRS (SEE P. 141) AND MANY POWERPLANTS ABOVE STATION. WATER DIVERTED PERIODICALLY FROM POND OF WISCONSIN RAPIDS POWERPLANT 2.6 MI (4.2 KM) UPSTREAM INTO CRANBERRY CREEK, A TRIBUTARY OF YELLOW RIVER, FOR CRANBERRY CULTURE. PROBABLY MOST OF THE WATER DIVERTED IS LOST BY EVAPORATION AND TRANSPIRATION. THESE DIVERSIONS IN CUBIC FEET PER SECOND, FOR WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974, WERE AS FOLLOWS:

OCT. 1	100	NOV. 21	33	AUG. 2	100	SEPT. 5	100	SEPT. 18	100
OCT. 2	100	DEC. 15	96	AUG. 3	100	SEPT. 6	100	SEPT. 19	100
OCT. 3	100	DEC. 16	100	AUG. 4	100	SEPT. 7	100	SEPT. 20	100
OCT. 4	100	DEC. 17	100	AUG. 5	100	SEPT. 8	100	SEPT. 21	100
OCT. 5	100	DEC. 18	100	AUG. 6	100	SEPT. 9	100	SEPT. 22	100
OCT. 6	100	DEC. 19	100	AUG. 7	100	SEPT. 10	100	SEPT. 23	100
OCT. 7	100	MAY 4	100	AUG. 8	100	SEPT. 11	100	SEPT. 24	100
NOV. 15	67	MAY 5	100	AUG. 9	29	SEPT. 12	100	SEPT. 25	100
NOV. 16	100	MAY 6	81	AUG. 31	100	SEPT. 13	100	SEPT. 26	100
NOV. 17	100	MAY 7	100	SEPT. 1	100	SEPT. 14	100	SEPT. 27	100
NOV. 18	100	MAY 8	29	SEPT. 2	100	SEPT. 15	100	SEPT. 28	100
NOV. 19	100	JULY 31	69	SEPT. 3	100	SEPT. 16	100	SEPT. 29	100
NOV. 20	100	AUG. 1	100	SEPT. 4	100	SEPT. 17	100	SEPT. 30	100

REVISIONS (WATER YEARS).--WSP 1308 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,390	3,650	3,440	3,540	3,290	2,680	3,280	4,160	4,160	2,890	2,210	2,170
2	3,170	3,870	2,910	3,480	3,060	2,650	4,370	3,410	3,690	2,840	2,160	2,080
3	3,490	3,970	3,250	3,530	2,770	2,770	8,080	3,350	4,040	2,900	2,300	2,520
4	3,460	3,230	3,210	3,530	3,050	3,190	12,200	3,010	4,080	1,800	2,360	2,670
5	3,300	3,540	3,530	3,320	2,960	3,550	12,600	2,670	4,170	1,950	2,950	2,440
6	3,260	3,420	3,790	3,080	2,950	3,990	9,860	2,490	3,760	2,430	3,010	2,650
7	2,720	3,310	3,620	3,380	2,800	5,940	10,700	2,990	3,780	2,630	3,050	2,450
8	3,280	3,360	3,320	3,230	2,810	7,550	12,600	2,750	4,930	2,840	3,120	2,180
9	3,290	3,180	3,200	3,190	2,700	7,490	13,300	2,870	10,700	3,240	3,300	2,450
10	3,360	2,960	3,550	3,130	2,600	6,920	11,000	2,870	11,400	2,990	3,000	2,970
11	3,340	2,850	3,540	3,090	2,580	4,670	10,400	3,630	12,600	3,180	2,800	3,270
12	3,200	3,200	3,240	2,950	3,040	4,540	12,100	3,530	13,100	4,320	2,750	3,570
13	3,280	3,320	3,350	2,820	2,790	4,150	17,400	4,490	9,600	2,570	2,960	3,410
14	2,820	3,310	3,090	3,000	2,620	4,640	20,700	5,080	5,980	2,540	2,790	3,150
15	3,390	3,840	3,020	3,010	2,590	4,280	17,700	5,300	5,180	2,460	2,730	3,020
16	3,330	3,560	2,790	3,150	2,580	4,200	12,300	5,800	5,160	2,460	2,740	3,010
17	3,200	3,500	3,260	3,330	2,600	4,160	9,130	5,310	4,550	2,520	2,730	3,010
18	3,060	2,660	3,080	3,020	2,730	4,160	7,240	5,680	4,200	2,460	2,640	3,050
19	2,940	2,950	3,010	2,930	3,120	3,720	5,850	4,730	4,190	2,630	2,680	2,680
20	3,330	3,010	3,160	2,600	3,500	3,620	5,610	4,280	4,150	2,380	2,670	2,700
21	2,800	2,910	3,250	3,350	2,940	3,320	5,390	4,520	3,970	2,550	2,690	2,910
22	3,030	2,930	3,270	3,100	2,660	3,140	5,580	4,470	3,440	2,440	2,720	2,300
23	3,080	3,150	2,400	2,950	2,670	3,040	6,310	3,460	2,850	2,490	2,730	2,600
24	3,090	3,490	2,410	2,970	2,560	2,940	5,390	3,360	3,160	2,290	2,650	2,380
25	3,070	3,300	2,290	2,920	2,600	3,060	5,000	3,990	3,480	2,820	2,430	2,580
26	2,990	3,510	3,350	2,930	2,580	3,050	5,060	2,790	3,050	2,910	2,720	2,530
27	2,820	3,480	3,420	2,930	2,660	3,050	4,610	3,680	2,590	2,490	2,820	2,550
28	3,300	3,730	3,440	2,940	2,840	3,250	4,380	3,680	2,660	2,450	2,710	2,280
29	3,420	3,540	3,000	3,000	------	3,260	4,300	4,280	2,700	2,660	2,720	2,210
30	3,320	3,680	2,730	3,290	------	3,520	4,270	3,770	2,670	2,470	2,690	2,560
31	3,950	------	3,270	3,200	------	3,290	------	4,050	------	2,360	2,510	------
TOTAL	99,480	100,410	98,190	96,890	78,650	123,790	266,710	120,450	153,990	81,960	84,340	80,350
MEAN	3,209	3,347	3,167	3,125	2,809	3,993	8,890	3,885	5,133	2,644	2,721	2,678
MAX	3,950	3,970	3,790	3,540	3,500	7,550	20,700	5,800	13,100	4,320	3,300	3,570
MIN	2,720	2,660	2,290	2,600	2,560	2,650	3,280	2,490	2,590	1,800	2,160	2,080

CAL YR 1973 TOTAL 2,742,340 MEAN 7,513 MAX 51,300 MIN 2,130
WTR YR 1974 TOTAL 1,385,210 MEAN 3,795 MAX 20,700 MIN 1,800

05401050 TENMILE CREEK NEAR NEKOOSA, WIS.

LOCATION.--LAT 44°15'44", LONG 89°48'38", IN NE 1/4 SEC.32, T.21 N., R.6 E., WOOD COUNTY, ON LEFT BANK UPSTREAM FROM BRIDGE ON STATE HIGHWAY 13, 5.8 MI (9.3 KM) SOUTHEAST OF NEKOOSA.

DRAINAGE AREA.--64 MI^2 (166 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--OCCASIONAL LOW-FLOW MEASUREMENTS, WATER YEARS 1962-63. OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 967.39 FT (294.860 M) ABOVE MEAN SEA LEVEL. PRIOR TO MAY 13, 1964, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--11 YEARS, 61.5 FT^3/S (1.742 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 157 FT^3/S (4.45 M^3/S) APR. 16, GAGE HEIGHT, 5.25 FT (1.600 M); MINIMUM, 25 FT^3/S (0.71 M^3/S) FEB. 24, GAGE HEIGHT, 3.88 FT (1.183 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 411 FT^3/S (11.6 M^3/S) MAR. 15, 1973, GAGE HEIGHT, 6.47 FT (1.972 M); MINIMUM, 9.5 FT^3/S (0.27 M^3/S) DEC. 16, 1964.

REMARKS.--RECORDS GOOD. APPROXIMATELY 40 MI (64 KM) OF DRAINAGE DITCHES AND 22 CHECK DAMS ARE USED TO CONTROL THE WATER TABLE IN THE BASIN. SPRINKLER IRRIGATION FROM GROUND-WATER SOURCES AFFECTS NATURAL FLOW OF CREEK.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

3.8	23	5.0	124
4.2	46	5.5	196
4.5	70		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	50	53	38	34	30	105	90	93	65	42	33
2	48	47	55	36	35	31	105	88	91	63	42	32
3	48	44	55	36	35	37	122	89	94	63	42	31
4	50	40	55	35	35	65	144	86	98	64	41	31
5	49	38	55	34	35	80	145	86	92	63	40	31
6	48	37	52	34	35	86	135	87	88	61	41	31
7	48	45	41	33	33	92	133	85	89	60	40	31
8	48	42	49	33	33	87	131	84	91	58	40	31
9	47	39	51	33	33	85	124	83	93	58	39	31
10	46	41	46	32	33	83	119	82	103	58	40	30
11	48	42	47	32	32	83	116	97	102	57	42	30
12	47	43	48	31	32	80	125	105	95	54	40	31
13	45	45	48	32	32	77	145	99	89	54	39	32
14	44	45	44	32	31	74	145	111	85	53	38	32
15	44	51	44	31	31	74	152	119	84	51	38	31
16	44	51	41	32	31	74	154	110	83	50	39	31
17	43	50	41	32	31	74	146	107	81	49	38	31
18	43	53	42	33	31	74	136	103	80	49	37	30
19	43	54	42	34	31	74	128	101	79	48	36	30
20	43	54	41	35	31	72	122	98	77	46	36	30
21	44	58	40	35	32	69	118	95	77	45	36	30
22	44	58	41	36	32	64	114	100	75	44	38	30
23	45	57	40	38	31	59	111	101	72	44	36	30
24	45	58	41	38	30	75	107	95	71	43	36	30
25	45	58	43	37	30	62	103	91	69	51	34	31
26	45	57	44	38	30	66	101	88	68	54	34	30
27	47	58	46	38	30	67	99	86	66	49	33	30
28	50	57	46	38	30	67	97	86	65	47	33	30
29	52	56	45	38	------	69	94	103	64	45	33	31
30	54	55	39	39	------	85	92	104	67	44	33	30
31	52	------	41	38	------	97	------	99	------	43	33	------
TOTAL	1,447	1,483	1,416	1,081	899	2,212	3,668	2,958	2,481	1,633	1,169	922
MEAN	46.7	49.4	45.7	34.9	32.1	71.4	122	95.4	82.7	52.7	37.7	30.7
MAX	54	58	55	39	35	97	154	119	103	65	42	33
MIN	43	37	39	31	30	30	92	82	64	43	33	30

CAL YR 1973 TOTAL 36,217 MEAN 99.2 MAX 393 MIN 37
WTR YR 1974 TOTAL 21,369 MEAN 58.5 MAX 154 MIN 30

05401100 FOURTEENMILE CREEK NEAR NEW ROME, WIS.

LOCATION.--LAT 44°12'15", LONG 89°48'29", IN S 1/2 SEC.17, T.20 N., R.6 E., ADAMS COUNTY, 50 FT (15 M) ABOVE TWIN CULVERTS ON STATE HIGHWAY 13, AND 2.7 MI (4.3 KM) SOUTHEAST OF NEW ROME.

DRAINAGE AREA.--77 MI^2 (199 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--ANNUAL MAXIMUM AND OCCASIONAL LOW-FLOW MEASUREMENTS, WATER YEARS 1961-64. MARCH 1964 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND CREST-STAGE GAGE. ALTITUDE OF GAGE IS 980 FT (300 M), FROM TOPOGRAPHIC MAP. PRIOR TO MAR. 2, 1964, CREST-STAGE GAGE ONLY AT DATUM 7.03 FT (2.143 M) LOWER, AND MAR. 2, 1964, TO AUG. 27, 1964, NONRECORDING GAGE AND CREST-STAGE GAGE.

AVERAGE DISCHARGE.--10 YEARS, 45.5 FT^3/S (1.289 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 177 FT^3/S (5.01 M^3/S) APR. 4, GAGE HEIGHT, 3.75 FT (1.143 M); MINIMUM DAILY, 5.2 FT^3/S (0.15 M^3/S) SEPT. 22, 23.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 546 FT^3/S (15.5 M^3/S) MAY 9, 1973, GAGE HEIGHT, 6.05 FT (1.844 M); MINIMUM, 0.65 FT^3/S (0.018 M^3/S) JAN. 25-27, 1968, GAGE HEIGHT, 1.45 FT (0.442 M).

REMARKS.--RECORDS GOOD. SOME REGULATION CAUSED BY MANIPULATION OF GATES AT RECREATION DAM 300 FT (91 M) UPSTREAM.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (SHIFTING-CONTROL METHOD USED OCT. 1 TO NOV. 26, JAN. 16 TO MAR. 7, MAR. 9-15, MAR. 26 TO SEPT. 30.)

1.9	2.6	3.0	81
2.1	10	3.5	125
2.3	23	4.0	165
2.7	54	4.5	205

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	29	30	19	21	20	86	33	58	34	12	7.5
2	14	28	28	18	21	20	99	39	57	35	12	7.5
3	15	28	26	18	21	19	110	43	60	35	14	7.1
4	17	28	26	18	21	18	154	44	64	40	12	6.2
5	15	28	26	18	21	17	160	44	63	36	11	6.6
6	14	28	25	18	21	17	151	44	59	32	11	6.6
7	14	23	24	19	21	28	151	43	58	29	11	6.6
8	14	20	24	20	21	43	151	44	58	26	10	7.1
9	14	20	24	20	21	62	141	44	60	24	9.6	7.1
10	14	20	24	20	21	91	115	44	65	25	12	6.6
11	17	21	24	20	21	99	104	56	65	24	15	6.6
12	58	15	24	20	21	98	104	58	62	22	10	7.9
13	123	12	24	20	21	84	104	59	58	21	12	8.3
14	119	13	23	20	21	75	105	71	55	20	11	6.6
15	99	13	22	20	21	60	137	79	53	19	9.6	6.2
16	74	13	22	20	21	52	167	84	51	17	14	6.2
17	69	13	22	20	21	52	73	82	48	16	15	6.2
18	68	13	21	21	21	52	32	78	48	16	12	6.2
19	63	17	20	21	21	52	52	73	48	16	11	6.2
20	58	32	20	21	21	52	40	70	46	15	9.6	5.8
21	52	38	20	21	21	52	37	67	46	14	11	5.5
22	49	38	20	21	20	52	36	70	44	13	16	5.2
23	45	38	20	21	20	52	37	70	39	12	12	5.2
24	41	37	20	21	20	52	37	68	36	11	11	7.5
25	36	37	20	21	20	52	37	64	35	15	9.2	9.6
26	32	38	20	21	20	63	37	60	34	16	8.7	7.9
27	29	38	20	21	20	78	38	58	32	15	8.7	7.1
28	29	36	20	21	20	76	40	56	32	15	7.9	7.5
29	29	34	20	21	------	75	47	57	31	13	7.9	7.9
30	29	32	20	21	------	75	32	58	36	12	7.1	6.2
31	29	------	20	21	------	74	------	58	------	11	7.9	------
TOTAL	1,291	780	699	622	581	1,712	2,614	1,818	1,501	649	341.2	204.7
MEAN	41.6	26.0	22.5	20.1	20.8	55.2	87.1	58.6	50.0	20.9	11.0	6.82
MAX	123	38	30	21	21	99	167	84	65	40	16	9.6
MIN	12	12	20	18	20	17	32	33	31	11	7.1	5.2

CAL YR 1973 TOTAL 29,683.8 MEAN 81.3 MAX 533 MIN 9.2
WTR YR 1974 TOTAL 12,812.9 MEAN 35.1 MAX 167 MIN 5.2

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO JAN. 15.

05401535 BIG ROCHE A CRI CREEK NEAR ADAMS, WIS.

LOCATION.--LAT 44°05'52", LONG 89°46'30", IN SW 1/4 SEC.22, T.19 N., R.6 E., ADAMS COUNTY, AT CULVERTS ON BROWN DEER AVENUE, 0.5 MI (0.8 KM) UPSTREAM FROM DRY CREEK, AND 10 MI (16.1 KM) NORTH OF ADAMS.

DRAINAGE AREA.--54 MI^2 (140 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--OCTOBER 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 959.45 FT (292.440 M) ABOVE MEAN SEA LEVEL. PRIOR TO MAY 15, 1964, NONRECORDING GAGE AT SAME SITE AT DATUM 1.71 FT (0.52 M) HIGHER

AVERAGE DISCHARGE.--11 YEARS, 61.4 FT^3/S (1.739 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 174 FT^3/S (4.93 M^3/S) APR. 17, GAGE HEIGHT, 4.66 FT (1.420 M); MINIMUM, 30 FT^3/S (0.850 M^3/S) FEB. 15, GAGE HEIGHT, 1.72 FT (0.524 M), RESULT OF FREEZEUP.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 623 FT^3/S (17.6 M^3/S) MAR. 9, 1973, GAGE HEIGHT, 6.82 FT (2.079 M) FROM HIGH-WATER MARK IN WELL; MINIMUM, 24 FT^3/S (0.68 M^3/S) DEC. 31, 1970, GAGE HEIGHT, 1.36 FT (0.415 M) RESULT OF FREEZEUP, FEB. 28, 1970, GAGE HEIGHT, 1.47 FT (0.448 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR. THERE IS SOME IRRIGATION FROM GROUND-WATER SOURCES IN THE UPPER PORTION OF BASIN.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED OCT. 1-15, FEB. 14 TO JUNE 6.)

1.7	33	3.0	90
2.0	45	4.0	140
2.5	65	5.0	200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	59	60	56	39	44	125	94	83	67	51	44
2	55	57	59	56	45	45	130	91	84	69	50	43
3	56	56	59	56	50	53	134	91	88	66	52	42
4	59	55	60	56	48	86	152	88	112	97	52	42
5	57	55	60	56	47	91	155	87	106	102	51	42
6	55	54	62	56	46	89	146	88	94	83	51	42
7	55	55	61	56	46	91	137	85	92	75	51	42
8	55	55	57	56	53	83	132	86	96	70	49	42
9	55	53	56	56	53	79	125	87	101	68	48	41
10	55	52	61	56	53	75	119	84	114	68	49	40
11	58	55	59	56	53	73	116	101	111	69	57	41
12	58	55	50	56	49	71	121	115	104	65	52	43
13	56	56	57	56	45	69	138	108	93	63	51	42
14	55	56	59	56	44	67	149	122	88	61	48	42
15	55	63	55	56	42	67	158	138	86	59	47	41
16	54	67	54	56	41	69	173	136	88	59	49	41
17	54	61	54	56	43	70	173	125	85	58	52	41
18	55	60	52	55	45	68	164	118	84	57	48	41
19	55	62	54	54	45	69	148	111	85	57	47	41
20	54	61	55	50	44	67	139	106	81	55	48	40
21	54	61	54	49	46	65	133	103	80	54	52	40
22	54	67	51	49	47	63	128	115	77	55	54	40
23	54	64	54	49	42	65	123	121	74	55	50	40
24	54	62	53	48	45	66	117	111	71	53	47	41
25	53	63	53	47	49	66	112	102	70	58	46	42
26	54	63	53	48	49	68	109	97	68	61	45	40
27	54	62	55	50	46	61	106	92	67	55	46	40
28	62	61	59	49	45	66	106	91	65	53	45	41
29	65	61	60	48	------	73	102	92	64	52	45	42
30	59	60	58	48	------	92	98	90	70	52	44	40
31	59	------	56	49	------	110	------	87	------	51	44	------
TOTAL	1,732	1,771	1,750	1,645	1,300	2,221	3,968	3,162	2,581	1,967	1,521	1,239
MEAN	55.9	59.0	56.5	53.1	46.4	71.6	132	102	86.0	63.5	49.1	41.3
MAX	65	67	62	56	53	110	173	138	114	102	57	44
MIN	53	52	50	47	39	44	98	84	64	51	44	40

CAL YR 1973 TOTAL 34,120 MEAN 93.5 MAX 460 MIN 47
WTR YR 1974 TOTAL 24,857 MEAN 68.1 MAX 173 MIN 39

PEAK DISCHARGE (BASE, 110 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 5	0100	4.34	157	5-23	0100	3.66	123
4-17	0100	4.66	174	6-10	0400	3.50	115
5-15	1400	3.99	140				

NOTE.--NO GAGE-HEIGHT RECORD AUG. 29 TO SEPT. 30.

05402000 YELLOW RIVER AT BABCOCK, WIS.

LOCATION.--LAT 44°18'05", LONG 90°07'15", IN NW 1/4 SEC.14, T.21 N., R.3 E., WOOD COUNTY, ON RIGHT BANK AT DOWNSTREAM SIDE OF BRIDGE ON STATE HIGHWAY 80 AT BABCOCK, 1.9 MI (3.1 KM) UPSTREAM FROM HEMLOCK CREEK.

DRAINAGE AREA.--223 MI^2 (578 KM^2).

PERIOD OF RECORD.--MARCH 1944 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 954.75 (291.008 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCT. 28, 1948, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--30 YEARS, 144 FT^3/S (4.078 M^3/S), 8.77 IN/YR (223 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,220 FT^3/S (91.2 M^3/S APR. 4, GAGE HEIGHT, 12.05 FT (3.673 M); MINIMUM, 4.0 FT^3/S (0.113 M^3/S) AUG. 6, GAGE HEIGHT, 1.90 FT (0.579 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 11,600 FT^3/S (329 M^3/S) APR. 2, 1952, GAGE HEIGHT, 17.38 FT (5.297 M); MINIMUM OBSERVED, 1.0 FT^3/S (0.028 M^3/S) OCT. 1, 1948, GAGE HEIGHT, 1.22 FT (0.372 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. THERE IS A LARGE RECREATION DAM ABOUT 5 MI (8.0 KM) UPSTREAM.

REVISIONS (WATER YEARS).--WSP 1308: 1944(M), 1946-47(M), 1949(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED OCT. 1-31, SEPT. 11-30; STAGE-DISCHARGE RELATION AFFECTED BY ICE NOV. 3 TO MAR. 5, MAR. 20-30.)

1.8	2.0	3.5	190
1.9	6.0	4.5	380
2.0	13	6.0	680
2.3	40	9.0	1,400
2.8	92	12.0	3,180

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	50	25	10	9.8	9.2	247	63	64	26	4.4	13
2	10	33	23	10	9.8	9.4	654	59	56	23	4.4	12
3	11	25	22	10	9.6	9.6	988	59	53	22	4.4	12
4	19	22	21	10	9.6	10	2,560	53	64	29	4.4	11
5	24	20	20	10	9.6	50	2,570	52	65	31	4.4	10
6	18	19	19	9.8	9.6	628	1,670	56	57	23	4.0	8.8
7	16	18	19	9.8	9.6	924	1,850	57	61	19	4.4	9.5
8	15	18	18	9.8	9.6	1,270	2,480	65	396	18	4.4	10
9	14	18	17	9.6	9.6	1,030	1,710	68	804	16	4.4	10
10	14	18	17	9.6	9.4	842	920	66	1,240	17	5.6	13
11	17	18	16	9.6	9.4	394	786	84	1,090	17	8.1	12
12	21	18	16	9.6	9.2	518	736	200	874	15	6.0	9.5
13	28	18	16	9.4	9.2	276	920	328	530	13	5.6	9.5
14	25	18	15	9.4	9.2	282	1,080	298	302	12	6.0	6.7
15	31	19	15	9.4	9.2	235	1,060	328	213	10	6.0	6.0
16	27	20	14	9.4	9.2	288	788	334	157	9.5	12	6.0
17	24	21	14	9.4	9.2	213	576	260	117	9.5	23	7.4
18	21	22	14	9.4	9.2	79	318	143	93	9.5	27	8.1
19	19	24	14	9.2	9.2	59	256	137	80	8.8	22	7.4
20	18	25	13	9.2	9.2	64	198	110	76	7.4	21	6.0
21	17	27	13	9.2	9.0	66	163	92	70	6.7	20	7.4
22	15	28	13	9.2	9.0	60	143	85	63	7.4	21	7.4
23	14	29	12	9.2	9.0	54	129	133	54	5.6	104	7.4
24	14	30	12	9.4	9.0	50	114	94	46	5.6	64	6.0
25	13	30	12	9.4	9.0	47	104	78	38	7.4	46	6.7
26	13	29	12	9.6	9.0	44	94	67	33	7.4	33	7.4
27	13	28	11	9.8	9.0	41	85	61	28	5.2	26	6.7
28	16	28	11	9.8	9.0	44	81	54	25	4.8	19	8.1
29	60	27	11	9.8	------	52	76	73	23	4.4	16	6.0
30	44	26	11	9.8	------	66	67	84	27	4.4	15	6.7
31	39	------	10	9.8	------	85	------	74	------	4.4	15	------
TOTAL	636.7	726	476	297.6	260.4	7,799.2	23,423	3,715	6,799	399.0	560.5	257.7
MEAN	20.5	24.2	15.4	9.60	9.30	252	781	120	227	12.9	18.1	8.59
MAX	60	50	25	10	9.8	1,270	2,570	334	1,240	31	104	13
MIN	6.7	18	10	9.2	9.0	9.2	67	52	23	4.4	4.0	6.0
CFSM	.09	.11	.07	.04	.04	1.13	3.50	.54	1.02	.06	.08	.04
IN.	.11	.12	.08	.05	.04	1.30	3.91	.62	1.13	.07	.09	.04

CAL YR 1973 TOTAL 119,778.1 MEAN 328 MAX 6,350 MIN 5.0 CFSM 1.47 IN 19.98
WTR YR 1974 TOTAL 45,350.1 MEAN 124 MAX 2,570 MIN 4.0 CFSM .56 IN 7.57

PEAK DISCHARGE (BASE, 1,200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 8	1200	9.04	1,420	4- 8	0500	11.43	2,750
4- 4	2200	12.05	3,220	6-10	1500	9.38	1,560

05403500 LEMONWEIR RIVER AT NEW LISBON, WIS.

LOCATION.--LAT 43°52'47", LONG 90°09'40", IN SE 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 FT (60 M) DOWNSTREAM FROM RECREATION DAM AND 1.2 MI (1.9 KM) UPSTREAM FROM WEBSTER CREEK.

DRAINAGE AREA.--500 MI^2 (1,300 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--MARCH 1944 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 867.05 FT (264.277 M) ABOVE MEAN SEA LEVEL. PRIOR TO MAY 5, 1948, NONRECORDING GAGE AT SITE 100 FT (30 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--30 YEARS, 366 FT^3/S (10.4 M^3/S), 9.94 IN/YR (252 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE OBSERVED, 2,400 FT^3/S (68.0 M^3/S) APR. 5, GAGE HEIGHT, 9.81 FT (2.990 M); MINIMUM OBSERVED, 58 FT^3/S (1.70 M^3/S) AUG. 4, GAGE HEIGHT, 0.77 FT (0.235 M), RESULT OF REGULATION.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 6,880 FT^3/S (195 M^3/S) MAY 8, 1960, GAGE HEIGHT, 12.94 FT (3.944 M) FROM GRAPH BASED ON GAGE READINGS; MINIMUM OBSERVED, 36 FT^3/S (1.02 M^3/S) AUG. 15, 1944, GAGE HEIGHT, -0.06 FT (-0.018 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. OCCASIONAL REGULATION BY DAM 200 FT (60 M) UPSTREAM. WATER DIVERTED PERIODICALLY INTO THE BASIN FROM THE YELLOW AND BLACK RIVER BASINS FOR CRANBERRY CULTURE.

REVISIONS (WATER YEARS).--WSP 1308: 1944(M), 1949-50(M). WSP 1728: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JAN. 17 TO MAR. 3, SEPT. 17-30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-18, JAN. 3-18, FEB. 4-15, MAR. 26, 27.)

0.8	61	4.0	392
1.0	70	6.0	774
2.0	143	8.0	1,410
3.0	250	10.0	2,530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	366	459	304	279	250	1,420	437	329	250	136	124
2	384	366	418	262	234	248	1,700	379	312	240	131	124
3	376	366	405	250	215	604	1,890	353	307	213	82	128
4	392	386	405	240	210	957	2,260	331	346	224	62	131
5	386	382	421	240	210	1,030	2,380	315	450	200	95	132
6	395	368	414	230	210	1,100	2,310	291	492	182	106	132
7	427	338	352	220	210	1,390	2,240	279	508	167	107	132
8	453	305	331	220	210	1,330	1,920	296	600	162	104	121
9	421	284	310	220	210	1,130	1,590	335	608	153	103	110
10	357	265	300	220	210	1,020	1,390	339	1,150	191	125	105
11	326	257	300	220	220	955	1,260	461	1,480	244	179	103
12	325	261	290	220	220	908	1,200	588	1,540	284	170	104
13	335	270	290	220	220	848	1,150	654	1,510	213	168	110
14	346	282	280	230	220	784	1,230	936	1,320	177	153	110
15	357	304	280	230	230	717	1,500	1,150	1,090	158	136	111
16	343	366	280	230	232	664	1,600	1,270	903	142	157	116
17	308	434	280	240	234	608	1,520	1,320	781	135	177	109
18	284	499	270	240	233	576	1,430	1,200	743	133	151	112
19	279	560	275	250	233	576	1,330	1,050	748	130	132	106
20	270	588	282	255	228	572	1,180	968	702	128	122	106
21	255	612	258	249	238	572	1,040	936	717	126	121	101
22	245	616	239	249	254	553	962	947	817	131	204	108
23	242	598	231	234	284	510	858	931	848	138	220	119
24	238	616	246	236	304	408	760	838	874	134	202	131
25	240	632	266	236	273	378	722	755	803	149	182	147
26	243	624	273	237	270	370	682	745	618	170	161	124
27	238	600	298	258	265	380	588	549	442	153	150	111
28	246	568	319	256	257	408	520	499	353	136	139	108
29	277	531	340	246	------	443	492	459	307	109	132	108
30	308	499	413	245	------	817	469	429	277	136	121	108
31	338	------	357	287	------	1,090	------	382	------	147	124	------
TOTAL	10,045	13,143	9,882	7,474	6,613	22,196	39,593	20,422	21,975	5,255	4,352	3,491
MEAN	324	438	319	241	236	716	1,320	659	733	170	140	116
MAX	453	632	459	304	304	1,390	2,380	1,320	1,540	284	220	147
MIN	238	257	231	220	210	248	469	279	277	109	62	101
CFSM	.65	.88	.64	.48	.47	1.43	2.64	1.32	1.47	.34	.28	.23
IN.	.75	.98	.74	.56	.49	1.65	2.95	1.52	1.63	.39	.32	.26

CAL YR 1973 TOTAL 264,344 MEAN 724 MAX 4,890 MIN 93 CFSM 1.45 IN 19.67
WTR YR 1974 TOTAL 164,441 MEAN 451 MAX 2,380 MIN 62 CFSM .90 IN 12.23

05403630 HULBURT CREEK NEAR WISCONSIN DELLS, WIS.

LOCATION.--LAT 43°37'37", LONG 89°48'36", IN SW 1/4 SEC.5, T.13 N., R.6 E., SAUK COUNTY, ON LEFT BANK 300 FT (91 M) UPSTREAM FROM HIGHWAY BRIDGE, 2.0 MI (3.2 KM) WEST OF WISCONSIN DELLS, AND 1.6 MI (2.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--11.1 MI^2 (28.7 KM^2).

PERIOD OF RECORD.--OCTOBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 840 FT (256 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 90 FT^3/S (2.55 M^3/S) MAY 14, GAGE HEIGHT, 3.62 FT (1.103 M); MINIMUM, 2.2 FT^3/S (0.062 M^3/S) JAN. 31, RESULT OF FREEZEUP.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 93 FT^3/S (2.63 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 4.37 FT (1.332 M), AUG. 26, 1972, GAGE HEIGHT, 4.76 FT (1.451 M); MINIMUM, 1.3 FT^3/S (0.037 M^3/S) JUNE 24, 1972.

REMARKS.--RECORDS FAIR EXCEPT WINTER PERIODS, WHICH ARE POOR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	6.2	4.1	4.1	5.0	4.9	11	5.5	6.2	3.9	4.2	4.6
2	8.0	5.3	4.3	4.1	4.7	7.4	8.2	5.3	6.9	4.0	5.3	3.9
3	8.0	4.8	4.4	4.0	4.7	32	12	5.3	7.2	4.0	7.0	3.9
4	15	4.4	5.6	3.9	4.6	28	12	5.3	6.7	4.7	5.4	3.9
5	9.2	4.3	6.5	3.8	4.6	9.7	7.9	5.0	6.2	4.4	4.5	3.8
6	7.0	4.2	5.1	3.8	4.4	10	7.0	4.9	6.7	4.0	3.9	3.8
7	7.3	4.6	4.4	3.8	4.4	9.4	7.0	4.9	8.6	4.0	5.6	3.8
8	7.1	4.6	4.3	3.8	4.4	7.7	6.4	8.2	7.5	4.0	4.5	3.7
9	6.8	4.3	4.3	3.8	4.4	9.2	7.4	6.4	23	3.8	3.8	3.7
10	7.0	4.3	4.3	3.8	4.4	7.7	6.4	5.9	20	9.7	5.0	3.7
11	8.6	4.4	4.3	3.8	4.4	6.8	6.9	13	9.0	5.8	6.4	4.0
12	7.4	4.7	4.2	3.9	4.5	6.7	11	7.2	7.2	4.5	7.2	4.4
13	6.4	4.7	4.2	3.9	4.6	5.9	7.9	9.7	7.0	4.4	7.2	4.9
14	6.1	4.7	4.2	4.1	4.5	6.1	30	47	6.4	4.1	4.5	4.5
15	6.0	5.7	4.2	4.4	4.4	7.2	22	13	7.7	3.9	4.0	4.2
16	5.7	6.4	4.1	4.4	4.3	8.2	13	12	6.2	3.9	5.3	4.1
17	5.6	4.8	4.1	4.4	4.4	6.9	9.7	9.9	5.6	3.9	4.6	4.2
18	6.0	4.8	4.3	4.7	4.5	6.7	8.2	8.0	6.4	4.1	4.1	4.1
19	5.4	4.4	4.3	4.7	4.6	6.7	7.4	7.9	17	4.1	3.9	4.3
20	5.3	4.6	4.3	6.7	4.9	6.1	7.9	7.7	6.7	4.0	3.5	4.4
21	5.2	6.8	4.1	5.7	5.6	5.9	8.2	10	6.7	4.0	3.9	4.5
22	5.2	4.9	4.2	5.4	5.7	5.8	7.5	35	5.5	4.2	7.9	4.6
23	5.2	5.2	4.2	5.2	5.2	5.6	6.9	11	5.0	3.7	4.9	4.7
24	5.2	4.9	4.4	4.9	4.8	5.5	6.2	9.0	4.6	3.9	4.1	4.9
25	5.3	4.9	5.8	4.9	4.7	5.8	6.1	8.2	4.5	6.2	3.5	4.6
26	5.3	5.3	6.5	5.3	4.7	6.5	5.9	7.4	4.4	5.6	3.9	4.7
27	5.2	5.6	6.0	7.0	4.5	6.7	5.8	6.9	4.0	4.5	5.0	4.6
28	6.4	4.8	5.2	5.4	4.5	7.4	5.8	8.6	4.0	3.9	4.1	4.9
29	6.7	4.2	4.9	5.1	------	9.1	6.7	8.4	3.9	3.8	3.6	5.6
30	6.0	4.3	4.7	6.3	------	20	5.8	7.5	4.5	3.7	4.6	4.6
31	6.2	------	4.2	5.8	------	12	------	6.9	------	3.7	8.6	------
TOTAL	207.4	147.1	143.7	144.9	130.4	283.6	274.2	311.0	225.3	136.4	154.0	129.6
MEAN	6.69	4.90	4.64	4.67	4.66	9.15	9.14	10.0	7.51	4.40	4.97	4.32
MAX	15	6.8	6.5	7.0	5.7	32	30	47	23	9.7	8.6	5.6
MIN	5.2	4.2	4.1	3.8	4.3	4.9	5.8	4.9	3.9	3.7	3.5	3.7
CFSM	.60	.44	.42	.42	.42	.82	.82	.90	.68	.40	.45	.39
IN.	.70	.49	.48	.49	.44	.95	.92	1.04	.76	.46	.52	.43

CAL YR 1973 TOTAL 2,955.4 MEAN 8.10 MAX 58 MIN 3.2 CFSM .73 IN 9.90
WTR YR 1974 TOTAL 2,287.6 MEAN 6.27 MAX 47 MIN 3.5 CFSM .56 IN 7.67

PEAK DISCHARGE (BASE, 30 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 3	2000	3.54	59	5-22	0400	3.20	61
4-14	1700	2.99	52	6- 9	1600	2.59	34
5-14	0400	3.62	90				

05403700 DELL CREEK NEAR LAKE DELTON, WIS.

LOCATION.--LAT 43°33'05", LONG 89°51'55", IN NW 1/4 SEC.2, T.12 N., R.5 E., SAUK COUNTY, ON RIGHT BANK 50 FT (15 M) UPSTREAM FROM HIGHWAY BRIDGE, 6.0 MI (9.7 KM) SOUTHWEST OF LAKE DELTON, AND 7.0 MI (11.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--44.9 MI^2 (116.3 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1957 TO SEPTEMBER 1965; ANNUAL MAXIMUM WATER YEARS 1966-70; OCTOBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 847.49 FT (258.315 M) ABOVE MEAN SEA LEVEL, DATUM OF 1929. PRIOR TO OCT. 4, 1957, WIRE-WEIGHT GAGE 50 FT (15 M) DOWNSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--12 YEARS (1957-65, 1970-74), 29.5 FT^3/S (0.835 M^3/S), 8.92 IN/YR (227 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 357 FT^3/S (10.1 M^3/S) MAR. 3, GAGE HEIGHT, 6.97 FT (2.124 M); MINIMUM DAILY, 22 FT^3/S (0.62 M^3/S) SEPT. 17-21.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,130 FT^3/S (32.0 M^3/S) JAN. 29, 1968, GAGE HEIGHT, 8.76 FT (2.670 M); MINIMUM, 11 FT^3/S (0.31 M^3/S) AUG. 1, 2, 1959, GAGE HEIGHT, 1.75 FT (0.533 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR PERIODS OF NO GAGE HEIGHT RECORD, WINTER PERIODS, AND PERIODS OF BACK-WATER FROM BEAVER DAMS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY BEAVER DAMS OCT. 4, 5; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-11, 16-18, 20-22, JAN. 1-14, FEB. 1, 2, 4-12, 15, 24-26, MAR. 21-22, 24-26).

2.6	22	5.0	118
3.0	31	6.0	207
4.0	63	7.0	363

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	36	28	26	34	28	52	32	32	29	25	31
2	36	33	28	26	31	50	43	31	33	29	25	28
3	36	30	30	25	29	243	50	31	33	29	35	27
4	58	30	36	25	28	254	79	30	34	32	35	26
5	45	28	52	24	28	89	54	30	33	32	26	25
6	34	27	34	24	27	61	39	30	33	31	26	25
7	37	28	29	24	27	61	38	30	37	30	34	24
8	36	29	28	23	27	50	35	41	42	30	26	23
9	34	27	28	23	27	56	34	38	83	29	24	23
10	34	26	27	23	27	52	35	34	104	131	27	23
11	46	28	27	23	27	40	35	58	44	98	39	25
12	43	30	27	24	28	37	48	44	35	32	37	24
13	36	32	27	24	28	36	43	38	31	29	45	28
14	34	30	27	25	27	34	110	140	30	27	29	25
15	32	38	26	26	27	36	146	101	38	26	27	23
16	32	40	26	26	27	45	73	53	32	26	29	23
17	32	32	26	26	26	38	49	50	31	26	31	22
18	31	32	26	26	27	35	42	39	31	27	29	22
19	31	31	26	27	28	37	40	38	57	28	27	22
20	31	30	26	37	28	33	40	35	37	28	26	22
21	31	48	26	37	34	31	42	37	38	27	29	22
22	30	38	26	34	37	30	40	80	34	27	45	23
23	30	31	26	31	35	30	37	39	32	24	32	24
24	30	33	26	29	31	29	35	34	31	24	28	27
25	30	34	33	29	30	29	35	33	30	41	27	25
26	30	31	38	31	29	30	34	32	29	35	26	24
27	29	31	35	46	28	35	34	32	29	26	30	24
28	35	34	31	34	28	37	34	33	29	25	30	25
29	46	30	30	31	------	39	38	35	29	25	28	31
30	35	29	32	36	------	88	34	34	29	24	28	27
31	35	------	27	60	------	62	------	33	------	24	44	------
TOTAL	1,095	956	914	905	810	1,755	1,448	1,345	1,140	1,051	949	743
MEAN	35.3	31.9	29.5	29.2	28.9	56.6	48.3	43.4	38.0	33.9	30.6	24.8
MAX	58	48	52	60	37	254	146	140	104	131	45	31
MIN	29	26	26	23	26	28	34	30	29	24	24	22
CFSM	.79	.71	.66	.65	.64	1.26	1.08	.97	.85	.76	.68	.55
IN.	.91	.79	.76	.75	.67	1.45	1.20	1.11	.94	.87	.79	.62

CAL YR 1973 TOTAL 16,754 MEAN 45.9 MAX 458 MIN 23 CFSM 1.02 IN 13.88
WTR YR 1974 TOTAL 13,111 MEAN 35.9 MAX 254 MIN 22 CFSM .80 IN 10.86

PEAK DISCHARGE (BASE, 110 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 3	2300	6.97	357	6-10	0200	5.28	138
4-14	1600	5.57	162	7-10	1400	5.79	184
5-14	1800	5.72	177				

05404000 WISCONSIN RIVER NEAR WISCONSIN DELLS, WIS.

LOCATION.--LAT 43°36'22", LONG 89°45'25", IN NW 1/4 SEC.14, T.13 N., R.6 E., SAUK COUNTY, ON RIGHT BANK 0.5 MI (0.8 KM) DOWNSTREAM FROM DELL CREEK AND 3.0 MI (4.8 KM) DOWNSTREAM FROM WISCONSIN DELLS.

DRAINAGE AREA.--7,830 MI^2 (20,300 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--OCTOBER 1934 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 801.48 FT (244.291 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). PRIOR TO OCT. 1, 1963, WATER-STAGE RECORDER AT SAME SITE AT DATUM 5.00 (1.524 M) HIGHER.

AVERAGE DISCHARGE.--40 YEARS, 6,790 FT^3/S (192.3 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 27,300 FT^3/S (773 M^3/S) APR. 15, GAGE HEIGHT, 13.39 FT (4.081 M); MINIMUM DAILY, 2,760 FT^3/S (78.2 M^3/S) SEPT. 3.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 72,200 FT^3/S (2,040 M^3/S) SEPT. 14, 1938, GAGE HEIGHT, 23.83 FT (7.263 M), PRESENT DATUM; MINIMUM DAILY, 1,060 FT^3/S (30.0 M^3/S) AUG. 19, 1936.

REMARKS.--RECORDS GOOD. FLOW REGULATED BY 23 RESERVOIRS ABOVE STATION (SEE P.141). IN 1938, WHEN THE MAXIMUM OF RECORD OCCURRED, THERE WERE 21 RESERVOIRS ABOVE STATION, THE TWO LARGE RESERVOIRS, PETENWELL AND CASTLE ROCK, NOT IN EXISTENCE. DIURNAL FLUCTUATION CAUSED BY POWERPLANT OF WISCONSIN POWER AND LIGHT CO. AT WISCONSIN DELLS, WHICH SHUTS DOWN FREQUENTLY TO 1,000 KWH, ABOUT 660 FT^3/S (18.7 M^3/S), FROM POWERPLANT RECORDS.

REVISIONS (WATER YEARS).--WSP 1728: 1936(M). WSP 1914: 1951, 1953-55.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 30 TO JAN. 27.)

OCT. 1 TO APR. 14				APR. 15 TO SEPT. 30			
5.0	2,750	11.0	17,800	4.7	2,760	9.0	13,200
7.0	7,180	13.0	25,200	5.0	3,360	11.0	19,100
9.0	12,200			7.0	7,880	14.0	29,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,190	4,940	4,610	3,200	3,730	5,600	6,900	7,710	6,620	4,440	3,160	3,140
2	4,770	5,080	4,700	4,200	4,060	5,800	7,230	7,560	6,120	4,570	3,280	3,020
3	4,720	4,880	4,700	5,000	4,910	6,400	8,160	6,810	6,000	4,240	3,300	2,760
4	4,660	5,120	5,140	4,800	4,700	7,400	10,100	6,070	6,050	4,050	3,340	3,340
5	4,500	4,500	5,360	4,600	4,400	8,400	14,000	5,500	6,620	2,840	3,530	3,570
6	4,100	4,390	5,610	4,000	3,300	9,000	13,300	4,530	7,000	2,900	3,470	3,380
7	3,900	4,700	5,580	4,000	4,000	9,200	11,900	4,550	7,600	3,280	3,700	3,530
8	3,900	4,530	5,230	4,000	4,600	9,400	11,600	4,860	8,800	3,490	3,650	3,260
9	4,400	4,500	4,020	4,000	4,400	9,400	13,300	4,530	11,000	3,700	3,650	3,340
10	4,600	4,330	4,220	4,000	3,900	9,500	14,200	4,550	13,000	4,700	3,650	4,010
11	4,600	3,800	5,340	4,000	3,900	9,500	12,400	4,440	15,000	4,200	3,610	3,680
12	4,500	3,610	5,230	3,600	4,400	8,870	14,800	4,490	18,000	4,400	3,910	3,870
13	4,500	4,200	5,210	3,800	4,400	7,910	17,800	4,880	17,300	4,200	4,100	3,970
14	4,400	4,310	4,920	4,100	4,500	7,560	22,100	6,580	16,200	3,700	3,720	4,460
15	3,900	4,680	4,640	4,200	4,500	7,080	26,700	7,880	14,100	3,500	3,910	3,960
16	4,200	4,940	3,590	4,200	4,500	6,970	22,500	9,640	16,200	3,700	3,760	3,250
17	4,300	4,790	3,910	4,700	4,600	6,710	15,800	10,400	12,600	3,800	3,720	3,470
18	4,200	4,640	4,280	4,500	4,500	6,280	12,100	10,500	9,800	3,500	3,420	3,620
19	4,610	4,330	4,040	4,400	4,600	5,510	11,700	9,880	9,070	3,400	3,650	3,610
20	4,060	4,280	3,960	4,100	4,800	4,750	11,400	9,510	7,910	3,500	3,700	3,610
21	3,530	4,440	4,700	3,700	4,900	4,770	11,200	9,460	6,910	3,200	3,720	3,120
22	3,460	4,810	4,770	3,700	4,900	5,320	10,900	9,700	8,110	3,000	3,890	3,090
23	3,840	4,810	3,890	4,100	4,800	4,980	10,600	9,460	8,010	3,100	4,120	3,290
24	3,630	4,900	3,420	4,500	4,800	4,180	10,400	9,070	6,600	3,180	3,910	3,090
25	4,170	4,940	3,250	4,200	4,900	4,180	10,300	8,230	5,540	3,440	3,490	3,200
26	4,060	5,320	3,850	4,100	5,000	4,510	9,850	7,580	5,520	3,800	3,530	3,160
27	3,930	5,410	4,340	4,000	5,100	4,960	9,460	7,030	5,480	3,800	3,860	3,210
28	3,440	5,230	4,370	3,660	5,300	5,330	8,430	6,490	5,410	3,590	3,650	3,230
29	3,910	5,160	4,210	4,110	------	4,750	7,930	6,420	4,350	3,700	3,550	2,800
30	4,260	4,940	3,500	4,030	------	6,070	7,810	6,390	4,100	3,510	3,590	2,850
31	4,700	------	3,000	3,880	------	6,740	------	6,230	------	3,380	3,380	------
TOTAL	130,940	140,510	137,590	127,380	126,400	207,030	374,870	220,930	275,020	113,810	112,920	101,890
MEAN	4,224	4,684	4,438	4,109	4,514	6,678	12,500	7,127	9,167	3,671	3,643	3,396
MAX	5,190	5,410	5,610	5,000	5,300	9,500	26,700	10,500	18,000	4,700	4,120	4,460
MIN	3,440	3,610	3,000	3,200	3,300	4,180	6,900	4,440	4,100	2,840	3,160	2,760

CAL YR 1973 TOTAL 3,955,900 MEAN 10,840 MAX 61,900 MIN 3,000
WTR YR 1974 TOTAL 2,069,290 MEAN 5,669 MAX 26,700 MIN 2,760

NOTE.--NO GAGE-HEIGHT RECORD FEB. 4 TO MAR. 12.

05404500 DEVILS LAKE NEAR BARABOO, WIS.

LOCATION.--43°25'18", LONG 89°43'38", IN NW 1/4 NE 1/4 SEC.24, T.11 N., R.6 E., SAUK COUNTY, IN DEVILS LAKE STATE PARK, 3.5 MI (5.6 KM) SOUTH OF BARABOO.

DRAINAGE AREA.--5.64 MI^2 (14.61 KM^2). AREA OF DEVILS LAKE, 361 ACRES (1.46 KM^2).

PERIOD OF RECORD.--JUNE 1922 TO AUGUST 1930, JUNE TO AUGUST 1932, JUNE 1934 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE. ELEVATION OF LAKE FROM REFERENCE MARK READ ABOUT TWICE A WEEK EXCEPT IN WINTER. DATUM OF GAGE IS 955.00 FT (291.084 M) ABOVE MEAN SEA LEVEL, UNADJUSTED.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 10.60 FT (3.231 M) JUNE 10; MINIMUM OBSERVED, 8.68 FT (2.646 M) SEPT. 30.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 12.40 FT (3.780 M) MAY 31, JUNE 1, 1973; MINIMUM OBSERVED, 1.49 FT (0.454 M) FEB. 8, 1965.

REMARKS.--LAKE HAS NO SURFACE OUTLET. LAKE WAS ICE COVERED DEC. 7 TO MAR. 17.

COOPERATION.--OBSERVER SERVICES FURNISHED BY EMPLOYEE OF DEVILS LAKE STATE PARK.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							9.58					9.25
2		9.40										
3								10.22		10.21	9.64	
4	9.92					8.94						
5			9.04		8.91				10.52			9.12
6		9.32						10.18		10.10	9.56	
7												
8	9.90	9.24				9.24	9.62					
9								10.12		10.08	9.54	
10									10.60			
11						9.38						8.91
12	9.84	9.16			8.90		9.68			10.24		9.02
13			9.00					10.28	10.54		9.48	
14						9.42			10.50			
15	9.78									10.14		
16		9.10					10.11					8.94
17			8.99				10.16	10.44	10.54		9.40	
18						9.48	10.17			10.02		
19	9.70				8.94							
20			8.92									
21	9.62	9.10							10.48		9.30	8.82
22						9.47	10.24			9.88	9.36	
23							10.26	10.57				
24									10.40			
25		9.10						10.50			9.24	8.74
26	9.54				8.88							
27										9.88	9.28	
28				8.91		9.44			10.32			
29	9.48				------		10.28					
30					------				10.28	9.76		8.68
31		------			------		------	10.44	------		9.26	------

05405000 BARABOO RIVER NEAR BARABOO, WIS.

LOCATION.--LAT 43°28'51", LONG 89°38'09", IN NW 1/4 SEC.35, T.12 N., R.7 E., SAUK COUNTY, ON LEFT BANK 50 FT (15 M) DOWNSTREAM FROM HIGHWAY BRIDGE, 0.3 MI (0.5 KM) DOWNSTREAM FROM ROWLEY CREEK AND 5.3 MI (8.5 KM) EAST OF BARABOO.

DRAINAGE AREA.--600 MI^2 (1,554 KM^2).

PERIOD OF RECORD.--DECEMBER 1913 TO MARCH 1922. SEPTEMBER 1942 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 788.21 FT (240.246 M) ABOVE MEAN SEA LEVEL. DEC. 18, 1913, TO MAR. 31, 1922, NONRECORDING GAGE AT BRIDGE 2.3 MI (3.7 KM) UPSTREAM AT DATUM 7.6 FT (2.32 M) HIGHER. SEPT. 24, 1942, TO JUNE 10, 1963, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--39 YEARS (1914-21, 1942-CURRENT YEAR), 372 FT^3/S (10.54 M^3/S), 8.42 IN/YR (214 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,720 FT^3/S (77.0 M^3/S) MAR. 7, GAGE HEIGHT, 15.91 FT (4.849 M); MINIMUM DAILY, 204 FT^3/S (5.78 M^3/S) SEPT. 23.

PERIOD OF RECORD: MAXIMUM DISCHARGE OBSERVED, 7,900 FT^3/S (224 M^3/S) MAR. 26, 1917, GAGE HEIGHT, 17.5 FT (5.33 M), ESTIMATED, SITE AND DATUM THEN IN USE, FROM RATING CURVE EXTENDED ABOVE 6,000 FT^3/S (170 M^3/S); MINIMUM OBSERVED, 9 FT^3/S (0.25 M^3/S) FEB. 17, 1944, GAGE HEIGHT, 5.08 FT (1.548 M); MINIMUM DAILY, 26 FT^3/S (0.74 M^3/S) OCT. 6, 1950.

FLOOD OF AUG. 6, 1935, REACHED A STAGE OF 15.8 FT (4.82 M) FROM FLOODMARKS, SITE AND DATUM IN USE IN 1922, DISCHARGE, 5,100 FT^3/S (144 M^3/S).

REMARKS.--RECORDS FAIR. DIURNAL FLUCTUATION FROM SEVERAL POWERPLANTS AT BARABOO.

REVISIONS (WATER YEARS).--WSP 455: 1915. WSP 505: 1917(M). WSP 1438: 1914-15(M), 1916-17, 1918-20(M), 1944(M), 1949(M). WSP 1728: DRAINAGE AREA. WSP 1914: 1948, 1950, 1956.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 12-28, JAN. 4-29, FEB. 4-26.)

OCT. 1 TO JAN. 26				JAN. 27 TO SEPT. 30			
7.1	246	9.0	675	7.1	250	12.0	1,480
8.0	436			8.0	460	14.0	2,080
				10.0	960	16.0	2,750

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	380	352	485	698	308	988	380	380	250	231	276
2	399	375	337	438	838	390	1,080	370	380	240	221	283
3	399	363	325	369	752	1,040	1,160	360	380	240	221	268
4	441	359	346	290	620	1,800	1,280	350	390	240	261	240
5	517	338	420	260	500	2,200	1,300	340	400	230	283	231
6	553	318	482	250	420	2,500	1,220	330	420	230	265	223
7	516	310	471	250	380	2,600	1,180	330	500	230	246	218
8	432	304	405	250	340	2,500	1,100	330	780	240	229	216
9	385	300	368	250	310	2,200	848	330	900	260	223	218
10	370	299	293	250	300	1,700	640	360	700	296	259	218
11	386	296	285	260	290	1,260	545	430	560	412	257	223
12	398	295	280	260	280	962	555	540	500	545	376	231
13	407	300	290	260	270	768	612	680	490	592	518	235
14	389	314	290	260	270	635	1,020	820	480	572	482	223
15	372	347	290	270	270	568	1,800	1,100	515	393	436	233
16	353	374	280	280	270	575	1,900	1,200	480	283	357	225
17	330	404	280	290	270	575	1,700	980	488	250	290	218
18	320	419	270	310	270	565	1,400	800	522	235	285	223
19	312	403	260	330	270	555	1,200	680	488	229	261	212
20	305	379	260	350	290	522	960	600	419	240	250	208
21	306	409	260	360	300	488	800	540	417	218	242	208
22	305	431	260	350	320	453	680	500	460	223	312	206
23	305	464	250	340	340	414	620	480	492	214	328	204
24	307	495	250	340	350	354	580	490	505	216	371	212
25	305	457	260	350	340	317	520	460	412	272	331	216
26	302	408	280	380	320	386	490	430	342	371	281	225
27	305	393	310	410	312	386	460	410	306	412	285	229
28	313	394	330	450	308	414	430	390	287	354	268	229
29	316	386	370	490	------	450	410	380	270	285	265	242
30	331	374	433	525	------	655	390	380	260	268	248	237
31	368	------	514	568	------	860	------	380	------	242	281	------
TOTAL	11,417	11,088	10,101	10,525	10,498	29,400	27,868	16,150	13,923	9,282	9,163	6,830
MEAN	368	370	326	340	375	948	929	521	464	299	296	228
MAX	553	495	514	568	838	2,600	1,900	1,200	900	592	518	283
MIN	302	295	250	250	270	308	390	330	260	214	221	204
CFSM	.61	.62	.54	.57	.63	1.58	1.55	.87	.77	.50	.49	.38
IN.	.71	.69	.63	.65	.65	1.82	1.73	1.00	.86	.58	.57	.42

CAL YR 1973 TOTAL 259,287 MEAN 710 MAX 4,260 MIN 240 CFSM 1.18 IN 16.08
WTR YR 1974 TOTAL 166,245 MEAN 455 MAX 2,600 MIN 204 CFSM .76 IN 10.31

NOTE.--NO GAGE-HEIGHT RECORD APR. 15 TO JUNE 13.

05406050 FISH LAKE NEAR SAUK CITY, WIS.

LOCATION.--LAT 43°17'02", LONG 89°39'15", IN NE 1/4 SW 1/4 SEC.3, T.9 N., R.7 E., DANE COUNTY, ON SOUTH SIDE OF LAKE NEAR GANSER'S TAVERN AND DANCE HALL, 0.4 MI (0.6 KM) SOUTHWEST OF CRYSTAL LAKE, AND 3.1 MI (5.0 KM) EAST OF SAUK CITY.

DRAINAGE AREA.--3.79 MI^2 (9.82 KM^2). AREA OF FISH LAKE, 252 ACRES (1.02 KM^2).

PERIOD OF RECORD.--NOVEMBER 1966 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--NONRECORDING GAGE IN LAKE BED. ALTITUDE OF GAGE IS 853 FT (260 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 6.80 FT (2.073 M) JUNE 14; MINIMUM OBSERVED, 5.40 FT (1.646 M) NOV. 9.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 6.80 FT (2.073 M) JUNE 14, 1974; MINIMUM OBSERVED, 3.02 FT (0.920 M) AUG. 29, 1970.

REMARKS.--LAKE HAS NO SURFACE OUTLET. LAKE ICE COVERED DEC. 7 TO APR. 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									6.60			
2											6.38	
3		5.54										
4								6.42				
5	5.58											
6	5.58									6.61		
7			5.59			6.09						6.16
8									6.66			
9		5.40										
10		5.42									6.31	
11							6.41	6.50				6.15
12							6.38					
13	5.64		5.61							6.57		
14									6.80			6.10
15									6.79			
16											6.30	
17		5.44	5.56								6.28	
18								6.70				
19												
20	5.56						6.52			6.49		
21												6.02
22		5.48							6.79	6.46		
23												
24											6.28	
25								6.70				
26	5.50		5.58									
27							6.52			6.47		6.00
28				5.81								
29		5.48			------				6.77			
30					------							
31		------			------		------		------		6.28	------

05406500 BLACK EARTH CREEK AT BLACK EARTH, WIS.

LOCATION.--LAT 43°08'03", LONG 89°43'56", IN SW 1/4 SEC.25, T.8 N., R.6 E., DANE COUNTY, ON RIGHT BANK, 0.8 MI (1.3 KM) EAST OF BLACK EARTH AND 2.1 MI (3.4 KM) UPSTREAM FROM VERMONT CREEK.

DRAINAGE AREA.--46.4 MI^2 (120.2 KM^2), INCLUDES 3.6 MI^2 (9.3 KM^2) WITHOUT SURFACE DRAINAGE.

PERIOD OF RECORD.--FEBRUARY 1954 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 812.95 FT (247.787 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--20 YEARS, 30.5 FT^3/S (0.864 M^3/S), 8.93 IN/YR (227 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 585 FT^3/S (16.6 M^3/S) JAN. 27, GAGE HEIGHT, 5.08 FT (1.548 M); MINIMUM DAILY, 31 FT^3/S (0.88 M^3/S) FEB. 6-11, 17, 26.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,750 FT^3/S (49.6 M^3/S) JULY 3, 1954, GAGE HEIGHT, 6.58 FT (2.006 M); MINIMUM, 4.8 FT^3/S (0.14 M^3/S) NOV. 29, 1958, GAGE HEIGHT, 1.39 FT (0.424 M), RESULT OF FREEZEUP.

REMARKS.--RECORDS GOOD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	38	38	35	43	34	51	42	56	54	44	39
2	48	38	39	34	39	90	47	42	57	55	44	39
3	47	37	39	33	37	406	47	43	55	55	43	38
4	51	36	52	33	33	134	52	42	56	53	46	38
5	47	36	66	32	32	81	47	44	57	55	45	38
6	44	35	52	32	31	64	43	44	60	52	43	38
7	46	35	47	32	31	57	41	44	62	51	42	36
8	43	36	44	32	31	53	39	52	60	51	42	36
9	42	34	43	32	31	63	39	48	248	51	41	37
10	41	34	43	32	31	55	38	47	128	73	42	38
11	40	34	41	32	31	48	39	54	76	56	40	38
12	42	35	40	32	32	47	44	51	68	52	41	40
13	41	35	40	32	32	45	42	53	64	51	44	41
14	40	35	39	32	32	43	125	76	62	49	41	39
15	39	38	39	32	32	44	78	58	66	49	40	39
16	38	38	38	32	32	48	59	110	61	50	44	39
17	37	37	38	32	31	47	51	91	60	49	47	39
18	37	35	38	32	32	45	48	72	59	48	43	38
19	37	34	37	33	35	44	47	68	60	47	41	38
20	37	37	37	57	36	42	46	61	61	47	40	38
21	37	46	37	75	46	42	47	59	73	47	41	38
22	37	41	36	55	42	39	47	122	62	47	50	38
23	37	38	36	41	37	38	46	71	58	47	43	38
24	37	44	37	37	33	35	43	61	56	47	40	39
25	37	43	44	37	32	34	42	59	57	54	40	39
26	38	40	47	95	31	36	43	58	55	52	41	39
27	38	39	43	340	32	36	43	56	55	48	49	38
28	39	41	41	55	34	47	42	57	55	47	41	41
29	39	40	39	47	------	48	46	58	56	45	39	47
30	38	38	38	69	------	85	44	57	55	45	39	41
31	39	------	37	77	------	60	------	57	------	44	42	------
TOTAL	1,260	1,127	1,285	1,601	951	1,990	1,466	1,857	2,058	1,571	1,318	1,164
MEAN	40.6	37.6	41.5	51.6	34.0	64.2	48.9	59.9	68.6	50.7	42.5	38.8
MAX	51	46	66	340	46	406	125	122	248	73	50	47
MIN	37	34	36	32	31	34	38	42	55	44	39	36
CFSM	.88	.81	.89	1.11	.73	1.38	1.05	1.29	1.48	1.09	.92	.84
IN.	1.01	.90	1.03	1.28	.76	1.60	1.18	1.49	1.65	1.26	1.06	.93

CAL YR 1973 TOTAL 17,925 MEAN 49.1 MAX 351 MIN 24 CFSM 1.06 IN 14.37
WTR YR 1974 TOTAL 17,648 MEAN 48.4 MAX 406 MIN 31 CFSM 1.04 IN 14.15

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	--	5.08	585	6- 9	2000	4.89	478
3- 3	1500	4.71	486				

05406640 OTTER CREEK NEAR HIGHLAND, WIS.

LOCATION.--LAT 43°01'42", LONG 90°16'38", IN NE 1/4 SEC.5, T.6 N., R.2 E., IOWA COUNTY, ON LEFT BANK 50 FT (15 M) UPSTREAM FROM BRIDGE ON TOWN ROAD, 0.3 MI (0.5 KM) DOWNSTREAM FROM RECREATION RESERVOIR OUTLET, 0.4 MI (0.6 KM) UPSTREAM FROM UNNAMED TRIBUTARY, 2.2 MI (3.5 KM) UPSTREAM FROM FLINT CREEK AND 5.3 MI (8.5 KM) SOUTHEAST OF HIGHLAND.

DRAINAGE AREA.--16.6 MI^2 (43.0 KM^2).

PERIOD OF RECORD.--MAY 1968 TO JUNE 1969, AUGUST 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 840 FT (256 M), FROM TOPOGRAPHIC MAP. PRIOR TO AUGUST 1970 AT SITE 100 FT (30 M) UPSTREAM.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 113 FT^3/S (3.20 M^3/S) MAR. 3, GAGE HEIGHT, 2.28 FT (0.695 M); MINIMUM DAILY, 5.4 FT^3/S (0.15 M^3/S) JAN. 14, 15.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 148 FT^3/S (4.19 M^3/S) MAR. 17, 1969, GAGE HEIGHT, 3.72 FT (1.13 M); MINIMUM, 0.07 FT^3/S (0.002 M^3/S) AUG. 27, 1970, GAGE HEIGHT, 0.57 FT (0.174 M), RESULT OF SHUTDOWN OF DAM OUTLET.

REMARKS.--RECORDS GOOD. FLOW REGULATED BY BLACK HAWK LAKE RESERVOIR 0.3 MI (0.5 KM) UPSTREAM. POOL SURFACE AREA OF RESERVOIR IS 222 ACRES (898,000 M). SUPPLEMENTAL DISCHARGE MEASUREMENT ON NARVISON BRANCH WHICH ENTERS OTTER CREEK 0.4 MI (0.6 KM) DOWNSTREAM, ARE OBTAINED TO PROVIDE ADDITIONAL DATA FOR THE DRAINAGE BASIN.

NARVISON BRANCH DISCHARGE MEASUREMENT (DISCHARGE IN CUBIC FEET PER SECOND AND CUBIC METERS PER SECOND)

JAN. 17, 1974..... 1.34 FT^3/S (0.038 M^3/S)

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 15, JAN. 10-14, FEB. 6-8.)

1.1	4.4	1.6	34
1.2	8.0	1.8	52
1.4	19.0	2.2	101

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.6	6.9	7.2	24	8.5	14	11	13	9.1	7.3	14
2	9.5	7.5	6.9	6.5	18	22	13	10	12	9.5	7.2	12
3	9.3	7.2	7.0	6.2	16	97	14	9.9	12	9.4	7.4	11
4	12	6.9	9.2	6.2	13	93	15	9.1	11	9.6	8.0	9.6
5	11	6.7	11	5.8	12	65	14	9.0	11	9.4	7.4	8.7
6	9.9	6.5	10	5.8	11	42	13	8.5	11	9.2	7.2	7.8
7	10	6.6	9.0	5.8	10	31	12	8.4	13	8.9	6.9	7.6
8	10	6.6	8.1	5.8	9.4	25	11	11	13	9.2	6.7	7.6
9	9.6	6.4	7.9	5.8	9.0	24	11	10	17	9.5	6.4	7.5
10	10	6.2	7.4	5.8	8.5	21	10	9.8	17	15	9.3	7.2
11	15	6.5	7.2	5.8	8.0	18	10	13	15	16	12	7.2
12	14	6.7	7.2	5.6	7.6	16	12	12	13	14	11	7.5
13	12	7.1	7.2	5.6	7.2	14	12	13	12	12	11	7.6
14	11	7.4	7.2	5.4	7.2	12	24	21	13	11	9.4	7.1
15	9.5	8.6	7.2	5.4	7.2	12	27	20	15	9.6	8.1	6.4
16	8.4	8.4	7.2	5.8	7.2	12	24	22	12	9.1	7.9	6.1
17	7.9	8.0	7.2	5.8	6.9	11	21	23	11	8.6	8.0	6.2
18	7.6	7.8	6.9	5.8	7.2	10	19	21	11	8.3	7.6	6.1
19	7.3	7.6	6.9	6.2	8.5	9.7	16	20	12	8.4	7.6	6.3
20	7.2	7.6	6.9	16	10	9.0	15	19	12	8.1	7.7	6.1
21	7.2	11	6.5	18	13	8.9	16	19	20	7.8	8.8	6.1
22	7.2	9.8	6.5	16	16	8.7	15	24	19	8.2	16	5.8
23	7.2	9.0	6.5	14	14	8.5	13	22	17	8.0	14	6.1
24	7.5	9.1	6.9	12	13	8.0	12	19	14	7.9	12	6.5
25	7.2	8.7	8.0	11	12	7.8	12	17	13	15	10	6.5
26	7.2	8.4	9.5	18	9.5	7.6	11	16	12	17	9.9	6.6
27	7.2	8.1	9.5	56	8.5	7.6	11	15	11	14	30	6.8
28	7.1	7.9	9.0	39	9.0	11	11	15	11	12	25	7.4
29	6.9	7.5	8.5	26	------	13	13	15	10	9.7	19	8.4
30	6.9	7.1	8.0	24	------	17	12	14	9.6	8.4	16	7.6
31	7.5	------	7.6	32	------	16	------	13	------	7.6	17	------
TOTAL	280.3	230.5	241.0	394.3	302.9	666.3	433	469.7	392.6	319.5	341.8	227.4
MEAN	9.04	7.68	7.77	12.7	10.8	21.5	14.4	15.2	13.1	10.3	11.0	7.58
MAX	15	11	11	56	24	97	27	24	20	17	30	14
MIN	6.9	6.2	6.5	5.4	6.9	7.6	10	8.4	9.6	7.6	6.4	5.8

CAL YR 1973 TOTAL 6,108.9 MEAN 16.7 MAX 77 MIN 5.4
WTR YR 1974 TOTAL 4,299.3 MEAN 11.8 MAX 97 MIN 5.4

05407000 WISCONSIN RIVER AT MUSCODA, WIS.

LOCATION.--LAT 43°11'54", LONG 90°26'26", IN NW 1/4 SEC.1, T.8 N., R.1 W., GRANT COUNTY, ON LEFT BANK AT BRIDGE ON STATE HIGHWAY 80, 0.5 MI (0.8 KM) UPSTREAM FROM EAGLE MILL CREEK AND 1.0 MI (1.6 KM) NORTH OF MUSCODA.

DRAINAGE AREA.--10,300 MI^2 (26,700 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--DECEMBER 1902 TO DECEMBER 1903, OCTOBER 1913 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR OCTOBER AND NOVEMBER 1913, PUBLISHED IN WSP 1308. GAGE-HEIGHT RECORDS COLLECTED AT SAME SITE NOVEMBER 1908 TO DECEMBER 1912 ARE CONTAINED IN REPORTS OF U. S. WEATHER BUREAU.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 667.05 FT (230.32 M) ABOVE MEAN SEA LEVEL. PRIOR TO NOV. 22, 1929, NONRECORDING GAGE ON BRIDGE 200 FT (61 M) UPSTREAM AT SAME DATUM. NOV. 22, 1929, TO MAR. 15, 1930, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--61 YEARS (1913-74), 8,613 FT^3/S (243.9 M^3/S).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 30,100 FT^3/S (852 M^3/S) APR. 18, GAGE HEIGHT, 6.40 FT (1.951 M); MINIMUM, 4,560 FT^3/S (129 M^3/S) SEPT. 26, GAGE HEIGHT, 0.87 FT (0.265 M); MINIMUM DAILY, 5,070 FT^3/S (144 M^3/S) SEPT. 27.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 80,800 FT^3/S (2,290 M^3/S) SEPT. 16, 1938, GAGE HEIGHT, 11.48 FT (3.50 M); MINIMUM DAILY, 2,000 FT^3/S (56.6 M^3/S) FEB. 11, 1918.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. FLOW REGULATED BY 23 RESERVOIRS AND MANY POWERPLANTS ABOVE STATION (SEE P. 141). IN 1938 WHEN THE MAXIMUM OF RECORD OCCURRED, THERE WERE 21 RESERVOIR ABOVE STATION, THE TWO LARGE RESERVOIRS, PETENWELL AND CASTLE ROCK NOT YET IN EXISTENCE. USUALLY LESS THAN 5 FT^3/S (0.14 M^3/S) WAS DIVERTED OUT OF BASIN THROUGH PORTAGE CANAL TO FOX RIVER THROUGHOUT THE YEAR.

REVISIONS (WATER YEARS).--WSP 785: 1921(M). WSP 875: 1921. WSP 1308: 1915(M), 1917-18(M), 1920-21(M), 1924(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED MAY 20 TO SEPT. 14; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 16 TO MAR. 6).

OCT. 1 TO SEPT. 11				SEPT. 12 TO SEPT. 30			
0.7	5,000	3.0	13,100	1.1	4,990	1.7	6,780
1.0	5,810	5.0	22,300				
2.0	9,190	7.0	34,400				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,980	5,930	8,340	5,600	7,200	7,800	10,700	11,100	8,500	7,160	5,640	5,870
2	8,090	6,650	6,850	5,200	7,000	8,600	10,600	10,900	9,120	6,920	5,610	5,730
3	7,280	7,130	6,630	5,200	6,000	10,000	11,100	10,200	9,300	6,370	5,590	5,260
4	7,170	7,040	7,270	5,800	6,800	14,000	12,700	10,100	8,930	7,230	5,340	5,260
5	7,470	6,840	8,290	7,200	7,200	16,000	14,300	8,970	8,100	6,960	5,230	5,130
6	7,450	7,030	7,920	7,000	6,800	15,000	14,100	8,710	9,120	6,690	5,260	5,130
7	6,900	6,410	8,290	6,800	6,600	14,000	16,100	7,890	9,150	5,640	5,400	5,180
8	6,670	6,460	8,290	6,600	6,000	14,200	17,500	8,000	9,520	5,230	5,340	5,160
9	6,450	6,560	8,580	6,000	6,400	14,700	15,200	7,790	10,400	6,070	5,420	5,310
10	5,750	6,750	7,440	6,400	6,800	15,000	15,100	7,540	11,100	6,370	5,670	5,340
11	6,900	6,290	6,440	6,400	7,000	14,700	16,900	7,960	12,500	7,790	6,280	5,340
12	7,420	6,130	5,170	6,600	6,600	14,400	17,800	7,890	13,700	7,230	5,730	5,420
13	6,970	6,160	6,260	6,400	6,200	14,200	16,300	8,210	13,700	7,370	5,670	5,560
14	6,570	5,840	8,130	5,800	7,000	13,100	19,500	9,190	15,700	7,160	6,160	6,090
15	6,580	6,430	7,550	6,200	6,600	12,000	23,400	9,980	19,700	6,920	6,250	5,470
16	6,620	7,110	7,000	6,600	6,400	11,500	25,900	11,400	18,800	5,980	6,220	6,620
17	5,590	6,890	6,600	6,600	7,000	10,900	28,800	13,300	16,900	6,280	5,980	5,730
18	6,070	6,910	6,200	6,800	7,000	10,300	29,200	14,400	17,500	5,960	5,670	5,210
19	6,310	7,340	6,000	7,200	6,800	10,100	22,300	14,300	15,200	5,670	5,420	5,100
20	6,280	6,920	6,200	7,200	6,800	10,200	17,000	13,600	14,000	5,870	5,730	5,240
21	5,900	7,010	6,400	7,400	7,200	9,090	16,300	12,900	13,000	6,310	5,670	5,500
22	5,880	6,410	6,200	7,200	7,400	7,780	15,100	13,300	12,000	5,700	5,900	5,330
23	5,640	7,040	6,600	6,800	7,400	8,280	14,900	13,400	10,700	5,590	6,370	5,210
24	5,420	7,080	6,600	6,400	7,200	8,560	14,700	12,600	11,400	5,450	5,980	5,300
25	5,850	7,270	6,200	6,800	7,000	7,970	14,400	12,500	10,900	5,500	5,930	5,100
26	5,760	7,790	6,000	7,200	7,200	7,140	14,200	12,000	9,120	6,100	5,730	5,270
27	6,100	7,410	6,400	7,600	7,800	8,410	13,000	11,400	8,100	6,130	5,900	5,070
28	6,010	7,520	6,600	7,200	7,600	7,700	12,700	10,600	8,100	6,160	6,160	5,210
29	6,050	7,600	6,800	6,800	------	8,550	12,300	9,900	7,930	6,220	6,130	5,270
30	5,700	7,170	7,000	7,000	------	9,170	11,100	10,600	8,240	5,590	5,500	5,300
31	5,780	------	6,200	7,400	------	9,510	------	9,040	------	5,590	5,640	------
TOTAL	200,610	205,120	214,450	205,400	193,000	342,860	493,200	329,670	350,430	195,210	178,520	161,710
MEAN	6,471	6,837	6,918	6,626	6,893	11,060	16,440	10,630	11,680	6,297	5,759	5,390
MAX	8,090	7,790	8,580	7,600	7,800	16,000	29,200	14,400	19,700	7,790	6,370	6,620
MIN	5,420	5,840	5,170	5,200	6,000	7,140	10,600	7,540	7,930	5,230	5,230	5,070

CAL YR 1973 TOTAL 5,158,420 MEAN 14,130 MAX 64,600 MIN 5,160
WTR YR 1974 TOTAL 3,070,180 MEAN 8,411 MAX 29,200 MIN 5,070

05407500 KICKAPOO RIVER AT ONTARIO, WIS.

LOCATION.--LAT 43°42'52", LONG 90°35'13", IN SE 1/4 SW 1/4 SEC.2, T.14 N., R.2 W., VERNON COUNTY, 0.7 MI (1.1 KM) SOUTH OF ONTARIO, ON RIGHT BANK 250 FT (76 M) UPSTREAM OF TOWN-ROAD BRIDGE, 0.5 MI (0.8 KM) BELOW BRUSH CREEK.

DRAINAGE AREA.--151 MI^2 (391 KM^2)

PERIOD OF RECORD.--JULY 1973 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 855 FT (261 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--JULY TO SEPTEMBER 1973: MAXIMUM DISCHARGE, 1,390 FT^3/S (39.4 M^3/S) AUG. 23, GAGE HEIGHT, 7.80 FT (2.377 M); MINIMUM, 85 FT^3/S (2.41 M^3/S) AUG. 6, GAGE HEIGHT, 1.81 FT (0.552 M).

WATER YEAR 1974: MAXIMUM DISCHARGE, 2,320 FT^3/S (65.7 M^3/S) MAR. 3, GAGE HEIGHT, 10.41 FT (3.173 M); MINIMUM DAILY, 66 FT^3/S (1.87 M^3/S) SEPT. 19-23, 25-28.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. RECORDS OF CHEMICAL AND BIOLOGICAL ANALYSES, WATER TEMPERATURES AND SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED SEPT. 23-26, 1973, APR. 4, JUNE 7-19, JULY 21-27;
STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 20 TO MAR. 1, MAR. 23.)

1.6	60	4.0	399
2.0	99	6.0	850
3.0	230	8.0	1,440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										110	91	89
2										110	88	97
3										106	88	108
4										102	87	100
5										100	88	98
6										100	90	96
7										99	200	96
8										96	280	100
9										96	220	110
10										98	121	100
11										94	110	97
12										94	108	95
13										94	187	91
14										94	150	92
15										92	117	94
16										91	111	97
17										90	108	116
18										90	106	102
19										89	106	98
20										90	106	95
21										95	106	101
22										98	109	184
23										92	500	105
24										95	250	102
25										91	170	129
26										92	130	109
27										98	110	108
28										90	100	102
29					------					111	89	112
30					------					123	89	116
31		------			------		------		------	95	89	------
TOTAL										3,015	4,304	3,139
MEAN										97.3	139	105
MAX										123	500	184
MIN										89	87	89
CFSM										.64	.92	.70
IN.										.74	1.06	.77

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	97	84	70	84	78	271	91	83	84	75	69
2	111	90	87	70	84	156	191	91	83	85	76	68
3	105	87	89	70	82	1,280	479	94	85	83	82	68
4	146	85	94	70	82	376	318	88	85	85	83	67
5	105	84	97	70	80	238	176	87	82	83	78	68
6	101	84	88	72	80	239	154	86	82	82	77	69
7	103	88	80	72	80	195	148	86	216	80	80	69
8	102	86	82	72	80	143	129	98	154	81	79	68
9	99	82	84	74	82	138	124	95	274	81	77	68
10	99	85	82	74	82	124	120	98	173	147	76	68
11	103	85	84	74	82	115	124	173	127	89	74	68
12	114	88	88	76	84	109	147	110	110	85	90	70
13	100	89	86	78	84	106	137	107	104	82	100	75
14	97	88	86	80	86	101	346	254	115	80	72	75
15	95	124	84	82	86	106	274	124	117	80	73	70
16	91	107	84	84	90	110	230	112	107	80	79	70
17	90	96	84	88	92	102	161	105	104	78	76	68
18	91	98	84	94	92	106	140	99	103	78	74	68
19	90	92	84	98	94	108	126	102	117	81	72	66
20	89	95	84	100	94	100	134	98	130	81	76	66
21	88	169	82	98	90	98	133	99	144	78	83	66
22	88	111	82	86	84	97	121	117	101	87	143	66
23	88	99	84	78	84	92	114	95	94	78	77	66
24	88	102	86	76	86	88	107	89	89	84	75	70
25	87	99	88	78	88	110	103	88	86	88	73	66
26	86	96	90	80	86	98	102	86	85	84	73	66
27	85	95	86	84	80	94	102	86	84	80	74	66
28	99	91	80	80	78	97	99	86	82	81	71	66
29	105	88	76	80	------	181	101	86	83	76	71	70
30	91	87	74	82	------	390	94	85	85	75	70	68
31	102	------	72	84	------	248	------	85	------	75	73	------
TOTAL	3,041	2,867	2,615	2,474	2,376	5,623	5,005	3,200	3,384	2,591	2,452	2,048
MEAN	98.1	95.6	84.4	79.8	84.9	181	167	103	113	83.6	79.1	68.3
MAX	146	169	97	100	94	1,280	479	254	274	147	143	75
MIN	85	82	72	70	78	78	94	85	82	75	70	66
CFSM	.65	.63	.56	.53	.56	1.20	1.11	.68	.75	.55	.52	.45
IN.	.75	.71	.64	.61	.59	1.39	1.23	.79	.83	.64	.60	.50

WTR YR 1974 TOTAL 37,676 MEAN 103 MAX 1,280 MIN 66 CFSM .68 IN 9.28

05408000 KICKAPOO RIVER AT LA FARGE, WIS.

LOCATION.--LAT 43°34'27", LONG 90°38'35", ON EAST-WEST QUARTER SECTION LINE IN W 1/2 SEC.29, T.13 N., R.2 W., VERNON COUNTY, ON LEFT BANK 10 FT (3 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 82, IN LA FARGE, 0.3 MI (0.5 KM) UPSTREAM FROM OTTER CREEK, AND 1.3 MI (2.1 KM) DOWNSTREAM FROM POWERPLANT.

DRAINAGE AREA.--266 MI^2 (689 KM^2).

PERIOD OF RECORD.--OCTOBER 1938 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 782.00 FT (238.354 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912. PRIOR TO DEC. 4, 1939, NONRECORDING GAGE ON HIGHWAY BRIDGE AT SAME DATUM.

AVERAGE DISCHARGE.--36 YEARS, 170 FT^3/S (4.814 M^3/S), 8.68 IN/YR (220 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,800 FT^3/S (79.3 M^3/S) MAR. 4, GAGE HEIGHT, 10.90 FT (3.322 M); MINIMUM DAILY, 120 FT^3/S (3.40 M^3/S) SEPT. 5, 6, 21, 22.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 9,910 FT^3/S (281 M^3/S) FEB. 9, 1966, GAGE HEIGHT, 13.67 FT (4.167 M); MINIMUM, 1.8 FT^3/S (0.051 M^3/S) MAR. 24, 1951; MINIMUM DAILY, 36 FT^3/S (1.02 M^3/S) NOV. 3, 1939.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER MONTHS, WHICH ARE FAIR. CONSIDERABLE DIURNAL FLUCTUATION CAUSED BY OPERATION OF POWERPLANT 1.3 MI (2.1 KM) UPSTREAM. RECORDS OF WATER TEMPERATURES AND SUSPENDED-SEDIMENT LOADS FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

REVISIONS (WATER YEARS).--WSP 1388: 1951(M), 1954(M). WSP 1438: 1944-45(M), 1946, 1948, 1950(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED APR. 6-28; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8 TO MAR. 3.)

2.0	112	6.0	917
3.0	257	8.0	1,500
4.0	448	10.0	2,250

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	206	142	140	150	180	522	185	164	151	124	134
2	217	186	167	140	150	260	325	178	166	153	126	127
3	215	174	178	140	150	1,500	517	180	166	150	137	126
4	304	169	189	140	140	2,110	823	171	174	162	157	125
5	215	166	210	140	140	478	363	166	161	155	133	120
6	191	163	195	140	140	457	296	163	160	145	126	120
7	196	166	159	140	140	429	285	158	252	139	139	122
8	194	170	160	140	140	297	261	174	406	137	128	126
9	188	161	170	140	150	295	243	185	393	136	123	123
10	191	160	160	140	150	278	239	180	401	191	130	122
11	201	168	170	140	160	237	238	300	276	202	224	124
12	222	169	180	140	160	227	277	268	222	149	191	125
13	201	174	170	140	160	209	279	221	201	143	196	137
14	186	173	170	150	160	203	553	508	194	137	144	131
15	180	209	170	150	160	200	678	333	246	134	132	126
16	173	245	170	160	170	218	493	296	206	129	135	123
17	171	193	170	180	170	204	357	262	192	128	148	122
18	173	190	160	190	180	200	311	227	186	128	134	122
19	173	185	160	200	180	215	278	225	221	131	128	122
20	171	181	160	210	190	195	276	220	215	133	126	122
21	170	270	160	210	200	186	293	221	439	126	138	120
22	170	265	160	210	200	182	263	270	253	130	279	120
23	170	209	160	200	180	165	243	220	207	140	171	123
24	171	203	170	190	170	173	223	198	190	128	138	136
25	171	212	170	190	180	204	214	191	179	157	133	132
26	170	201	180	200	180	218	208	184	172	155	131	130
27	167	197	170	250	180	197	202	179	166	135	134	130
28	175	191	160	210	180	193	198	178	159	130	132	130
29	213	188	150	200	------	268	237	180	156	129	127	139
30	187	184	140	210	------	773	197	177	155	128	127	136
31	198	------	140	300	------	493	------	157	------	126	151	------
TOTAL	5,945	5,728	5,170	5,430	4,610	11,444	9,892	6,755	6,678	4,417	4,542	3,795
MEAN	192	191	167	175	165	369	330	218	223	142	147	127
MAX	304	270	210	300	200	2,110	823	508	439	202	279	139
MIN	167	160	140	140	140	165	197	157	155	126	123	120
CFSM	.72	.72	.63	.66	.62	1.39	1.24	.82	.84	.53	.55	.48
IN.	.83	.80	.72	.76	.64	1.60	1.38	.94	.93	.62	.64	.53

CAL YR 1973 TOTAL 101,803 MEAN 279 MAX 3,390 MIN 120 CFSM 1.05 IN 14.24
WTR YR 1974 TOTAL 74,406 MEAN 204 MAX 2,110 MIN 120 CFSM .77 IN 10.41

PEAK DISCHARGE (BASE, 1,700 FT^3/S).--MAR. 4 (0945) 2,800 FT^3/S (10.90 FT).

05409830 NORTH FORK NEDERLO CREEK NEAR GAYS MILLS, WIS.

LOCATION.--LAT 43°21'47", LONG 90°54'34", IN NE 1/4 SEC.12, T.10 N., R.5 W., CRAWFORD COUNTY, ON RIGHT BANK 160 FT (50 M) UPSTREAM FROM TOWN-ROAD BRIDGE, 0.3 MI (0.5 KM) ABOVE THE CONFLUENCE WITH SOUTH FORK NEDERLO CREEK, AND 4.5 MI (7.2 KM) NORTHWEST OF GAYS MILLS.

DRAINAGE AREA.--2.3 MI^2 (6.0 KM^2).

PERIOD OF RECORD.--OCTOBER 1967 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. CONCRETE CONTROL SINCE OCT. 8, 1968. ALTITUDE OF GAGE IS 800 FT (240 M) FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--7 YEARS, 0.82 FT^3/S (0.0232 M^3/S), 4.84 IN/YR (123 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 110 FT^3/S (3.12 M^3/S) JULY 17, GAGE HEIGHT, 13.12 FT (3.999 M); MINIMUM DAILY, 0.88 FT^3/S (0.025 M^3/S) NOV. 3-7, 9-10, JAN. 31, AUG. 6-9, 18-19, 26-29, SEPT. 1-2, 4-6, 10, 14-15, 20-22.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 541 FT^3/S (15.3 M^3/S) JUNE 23, 1968, GAGE HEIGHT, 14.60 FT (4.450 M) FROM RATING CURVE EXTENDED ABOVE 3 FT^3/S (0.085 M^3/S) ON BASIS OF CONTRACTED-OPENING MEASUREMENT MADE AT 14.60 FT (4.450 M), COMPUTATION OF FLOW THROUGH CULVERT MADE AT GAGE HEIGHT 13.80 FT (4.206 M) AND SLOPE-AREA MEASUREMENT MADE AT GAGE HEIGHT 13.10 FT (3.993 M); MINIMUM, 0.34 FT^3/S (0.010 M^3/S) FEB. 22, 1971, GAGE HEIGHT, 10.65 FT (3.246 M) RESULT OF FREEZEUP.

REMARKS.--RECORDS FAIR.

REVISIONS (WATER YEARS).--WRO WIS. 1970: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE JAN. 1-6, FEB. 1-10.)

10.8	0.80	11.4	4.6
11.0	1.6	11.7	9.0
11.2	2.8	12.0	18

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.91	.95	.90	.90	.95	1.1	.95	.95	.95	.91	.88
2	1.1	.91	.95	.90	.90	2.5	1.1	.95	.95	.95	.95	.88
3	1.5	.88	.95	.90	.90	13	1.2	.95	.95	.95	.95	.91
4	1.4	.88	1.0	.90	.90	1.4	1.1	.95	.95	2.3	.91	.88
5	1.1	.88	1.1	.90	.90	1.4	1.1	.95	.95	.99	.91	.88
6	1.1	.88	1.0	.90	.90	1.3	.99	.95	.95	.95	.88	.88
7	1.1	.88	.99	.91	.90	1.1	.99	.95	1.1	.95	.88	.91
8	1.0	.91	.95	.91	.90	1.1	.99	1.0	1.0	.91	.88	.91
9	1.0	.88	.95	.91	.90	2.2	.95	.99	1.8	.91	.88	.91
10	1.1	.88	.95	.91	.90	1.1	.95	1.0	1.1	.95	1.1	.88
11	1.0	.91	.95	.91	.95	1.1	.99	1.1	1.0	.95	.95	.91
12	1.0	.91	.95	.91	.95	1.1	.99	1.0	.99	.91	.99	.95
13	1.0	.91	.95	.91	.95	1.0	.99	1.2	.95	.91	.95	.91
14	.99	.95	.95	.91	.91	1.0	2.3	1.3	1.7	.91	.95	.88
15	.99	1.0	.95	.95	.91	1.0	1.3	1.1	1.1	.91	.91	.88
16	.99	.95	.95	.95	.91	1.0	1.2	1.1	1.0	.95	.91	.91
17	.95	.95	.95	.95	.91	1.0	1.1	1.0	.99	.99	.91	.91
18	.95	.95	.95	.95	.95	1.0	1.1	.99	.99	4.4	.88	.91
19	.95	.95	.95	.95	.95	1.0	1.1	.99	.95	.99	.88	.91
20	.95	1.0	.95	.99	.95	.99	1.1	.99	.99	.91	.95	.88
21	.95	1.1	.95	.95	.99	.99	1.1	.99	1.7	.95	1.4	.88
22	.91	1.0	.95	.95	.99	.99	1.0	.95	1.1	.99	.99	.88
23	.91	.95	.95	.95	.95	.95	.99	.95	1.0	.99	.91	.95
24	.95	.99	.95	.95	.95	.95	.95	.95	.99	1.4	.91	.91
25	.95	.95	.99	.95	.91	.95	.95	.95	.99	2.4	.91	.91
26	.95	.95	.99	.99	.95	.95	.95	.95	.95	1.0	.88	.91
27	.91	.95	.95	.99	.95	.95	.95	.95	.95	.91	.88	.95
28	.91	.95	.95	.95	.95	.95	.95	.95	.95	.91	.88	.99
29	.91	.95	.95	.95	------	2.1	.95	.95	.95	.91	.88	.99
30	.91	.95	.95	1.1	------	1.6	.95	.95	.95	.91	.95	.95
31	.95	------	.91	.88	------	1.1	------	.95	------	.91	.91	------
TOTAL	31.48	28.11	29.78	29.03	25.98	48.72	32.38	30.90	31.89	35.92	29.03	27.29
MEAN	1.02	.94	.96	.94	.93	1.57	1.08	1.00	1.06	1.16	.94	.91
MAX	1.5	1.1	1.1	1.1	.99	13	2.3	1.3	1.8	4.4	1.4	.99
MIN	.91	.88	.91	.88	.90	.95	.95	.95	.95	.91	.88	.88
CFSM	.44	.41	.42	.41	.40	.68	.47	.43	.46	.50	.41	.40
IN.	.51	.45	.48	.47	.42	.79	.52	.50	.52	.58	.47	.44

CAL YR 1973 TOTAL 356.35 MEAN .98 MAX 11 MIN .70 CFSM .43 IN 5.76
WTR YR 1974 TOTAL 380.51 MEAN 1.04 MAX 13 MIN .88 CFSM .45 IN 6.15

05409890 NEDERLO CREEK NEAR GAYS MILLS, WIS.

LOCATION.--LAT 43°21'43", LONG 90°52'44", IN NW 1/4 SEC.8, T.10 N., R.4 W., CRAWFORD COUNTY, ON RIGHT BANK JUST UPSTREAM FROM BRIDGE ON PRIVATE ROAD, 1.2 MI (1.9 KM) UPSTREAM FROM TAINTER CREEK AND 3.4 MI (5.5 KM) NORTH OF GAYS MILLS.

DRAINAGE AREA.--9.6 MI^2 (24.8 KM^2).

PERIOD OF RECORD.--OCTOBER 1967 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 740 FT (230 M), FROM TOPOGRAPHIC MAP.

AVERAGE DISCHARGE.--7 YEARS, 4.74 FT^3/S (0.134 M^3/S), 6.71 IN/YR (170 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 244 FT^3/S (6.91 M^3/S) MAR. 3, GAGE HEIGHT, 13.48 FT (4.109 M); MINIMUM DAILY, 4.6 FT^3/S (0.13 M^3/S) SEPT. 20, 21, 22.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 2,600 FT^3/S (73.6 M^3/S) JUNE 23, 1968, GAGE HEIGHT, 17.06 FT (5.200 M) FROM RATING CURVE EXTENDED ABOVE 20 FT^3/S (0.57 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT AT SITE 1.2 MI (1.9 KM) UPSTREAM AT GAGE HEIGHT 17.06 FT (5.200 M), COMPUTATION OF FLOW THROUGH CULVERT AT GAGE HEIGHT 14.80 FT (4.511 M) AND SLOPE-AREA MEASUREMENT MADE AT GAGE HEIGHT 13.36 FT (4.072 M); MINIMUM, 1.7 FT^3/S (0.05 M^3/S) FEB. 16, 1968, GAGE HEIGHT, 10.78 FT (3.286 M), RESULT OF FREEZEUP.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. HYDROLOGIC STUDIES ARE BEING MADE IN THE NEDERLO CREEK BASIN AND ADDITIONAL DATA AT UPSTREAM SITES ARE AVAILABLE.

REVISIONS (WATER YEARS).--WRD WIS. 1970: DRAINAGE AREA.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).

OCT. 1 TO JULY 25

10.7	4.1	11.2	14
10.8	5.1	11.3	19
10.9	6.3	11.4	25
11.0	8.0	11.6	39
11.1	10.4	12.2	89

JULY 26 TO SEPT. 30

10.8	4.2	11.0	7.5
10.9	5.3		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.7	5.3	5.0	5.1	4.9	6.6	5.8	5.5	5.9	4.9	5.1
2	5.9	5.6	5.5	5.1	5.1	20	6.5	5.8	5.6	6.1	5.1	5.0
3	7.8	5.5	5.5	5.0	5.1	89	8.7	5.8	5.6	5.9	5.1	5.0
4	10	5.5	6.8	4.9	5.0	9.9	7.3	5.7	5.5	12	5.0	5.0
5	6.1	5.5	5.8	5.0	5.1	9.2	6.5	5.8	5.5	5.7	4.9	5.0
6	5.9	5.5	5.6	5.0	5.1	8.7	6.3	5.7	5.6	5.6	4.9	5.0
7	6.2	5.5	5.3	5.0	5.0	7.0	6.3	5.9	7.8	5.6	4.9	5.1
8	5.9	5.5	5.5	4.9	5.0	6.3	6.2	6.2	5.9	5.5	4.9	5.1
9	5.9	5.5	5.5	4.9	4.9	13	6.1	5.9	11	5.6	4.9	5.0
10	6.2	5.3	5.5	4.9	4.9	6.6	5.8	6.3	6.3	5.7	6.2	5.0
11	6.1	5.5	5.3	4.9	4.9	6.3	6.1	8.2	5.9	5.6	5.2	5.0
12	5.9	5.6	5.3	4.8	5.0	6.5	6.3	6.2	5.7	5.6	5.7	5.1
13	5.7	5.6	5.5	4.8	5.0	5.8	6.2	7.8	5.7	5.5	5.2	5.0
14	5.7	5.7	5.3	5.0	4.9	6.1	22	9.2	11	5.5	5.0	4.9
15	5.7	6.3	5.3	5.0	4.9	6.2	8.2	6.5	6.1	5.5	4.9	4.9
16	5.6	5.6	5.2	5.0	4.9	6.1	7.2	7.2	5.8	5.5	4.9	4.9
17	5.6	5.5	5.2	5.0	4.9	5.9	6.8	6.3	5.7	5.5	4.9	4.9
18	5.7	5.5	5.3	5.0	5.0	6.3	6.6	6.3	5.7	18	4.9	4.9
19	5.7	5.5	5.2	5.0	5.1	5.9	6.3	6.2	5.7	5.9	4.9	4.8
20	5.6	5.9	5.2	5.6	5.1	5.8	6.8	6.3	6.1	5.7	6.6	4.6
21	5.6	6.8	5.3	5.6	5.5	5.8	6.8	6.2	9.4	5.7	7.5	4.6
22	5.6	5.8	5.2	5.5	5.6	5.7	6.5	6.1	6.3	5.8	5.5	4.6
23	5.6	5.6	5.2	5.1	5.0	5.7	6.2	5.9	6.1	5.7	5.0	5.0
24	5.6	5.8	5.2	5.1	4.8	5.5	6.1	5.8	5.9	6.3	5.0	5.0
25	5.7	5.7	5.6	5.2	4.8	5.8	5.9	5.7	5.8	14	5.0	4.9
26	5.6	5.6	5.5	5.5	4.8	5.7	5.9	5.7	5.8	5.3	5.0	4.9
27	5.5	5.7	5.3	5.7	4.9	5.6	5.9	5.7	5.8	5.1	5.1	4.9
28	5.7	5.6	5.3	5.1	4.9	5.8	5.9	5.8	5.8	5.0	5.0	5.0
29	5.6	5.5	5.2	5.2	------	13	5.9	5.8	5.9	5.0	5.0	5.0
30	5.6	5.5	5.1	7.2	------	9.9	5.8	5.7	5.9	5.0	5.1	4.8
31	5.9	------	5.1	5.5	------	6.8	------	5.7	------	4.9	5.1	------
TOTAL	185.4	169.4	167.1	160.5	140.3	310.8	209.7	193.2	190.4	199.7	161.3	148.0
MEAN	5.98	5.65	5.39	5.18	5.01	10.0	6.99	6.23	6.35	6.44	5.20	4.93
MAX	10	6.8	6.8	7.2	5.6	89	22	9.2	11	18	7.5	5.1
MIN	5.5	5.3	5.1	4.8	4.8	4.9	5.8	5.7	5.5	4.9	4.9	4.6
CFSM	.62	.59	.56	.54	.52	1.04	.73	.65	.66	.67	.54	.51
IN.	.72	.66	.65	.62	.54	1.20	.81	.75	.74	.77	.63	.57

CAL YR 1973 TOTAL 2,178.0 MEAN 5.97 MAX 45 MIN 3.8 CFSM .62 IN 8.44
WTR YR 1974 TOTAL 2,235.8 MEAN 6.13 MAX 89 MIN 4.6 CFSM .64 IN 8.66

05410000 KICKAPOO RIVER AT GAYS MILLS, WIS.

LOCATION.--LAT 43°19'10", LONG 90°51'08", IN NE 1/4 SEC.28, T.10 N., R.4 W., CRAWFORD COUNTY, ON UPSTREAM SIDE OF BRIDGE ON STATE HIGHWAY 171, 300 FT (91 M) DOWNSTREAM FROM DAM IN GAYS MILLS AND 3.3 MI (5.3 KM) DOWNSTREAM FROM TAINTOR CREEK.

DRAINAGE AREA.--616 MI^2 (1,595 KM^2).

PERIOD OF RECORD.--DECEMBER 1913 TO SEPTEMBER 1934. MONTHLY DISCHARGE ONLY JULY TO SEPTEMBER 1934, PUBLISHED IN WSP 1308. APRIL 1964 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE. DATUM OF GAGE IS 685.75 FT (209.017 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--30 YEARS (1914-34, 1964-74), 425 FT^3/S (12.04 M^3/S), 9.37 IN/YR (238 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE OBSERVED, 2,420 FT^3/S (68.5 M^3/S) MAR. 6, GAGE HEIGHT, 12.35 FT (3.764 M); MINIMUM DAILY, 332 FT^3/S (9.40 M^3/S) SEPT. 25.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 10,600 FT^3/S (300 M^3/S) FEB. 10, 1966, GAGE HEIGHT, 16.00 FT (4.877 M); MINIMUM OBSERVED, 48 FT^3/S (1.36 M^3/S) JULY 27, 1931, GAGE HEIGHT, 0.51 FT (0.155 M).
FLOOD IN 1913 REACHED A STAGE OF 15.2 FT (4.63 M) FROM FLOODMARK (BACKWATER FROM ICE PROBABLE).
FLOOD IN 1961 REACHED A STAGE OF 16.37 FT (4.990 M) FROM FLOODMARK.

REMARKS.--RECORDS FAIR. OCCASIONAL REGULATION CAUSED BY DAM 300 FT (91 M) UPSTREAM.

REVISIONS (WATER YEARS).--WSP 1438: 1915-16(M), 1917, 1918-19(M), 1920-23, 1924-26(M), 1927-30, 1931(M), 1932, 1933-34(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9 TO FEB. 24, MAR. 23-26.)

4.4	326	9.0	1,080
5.0	410	11.0	1,600
7.0	720	13.0	2,980

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	739	496	521	360	370	520	1,160	565	510	467	389	368
2	771	491	524	360	370	700	984	544	504	461	389	361
3	829	488	516	360	370	1,100	838	527	498	456	404	357
4	826	485	515	360	370	1,800	850	514	510	473	413	348
5	802	485	518	360	370	2,100	1,080	509	509	486	419	348
6	755	482	515	360	370	2,360	1,170	508	520	462	412	351
7	595	479	512	360	370	1,780	1,100	496	600	454	390	344
8	579	482	503	360	370	1,300	746	498	700	443	400	350
9	563	479	500	360	370	1,160	680	528	840	428	388	358
10	554	479	480	370	370	800	683	544	924	452	383	350
11	565	482	470	370	380	699	680	550	820	503	400	353
12	576	485	460	370	380	645	686	510	640	527	440	354
13	542	482	450	370	390	610	686	710	600	485	460	357
14	509	488	440	370	390	600	1,030	949	580	450	410	354
15	518	485	440	370	400	568	1,180	1,040	560	418	380	351
16	510	491	430	370	400	563	1,220	890	560	410	360	344
17	506	497	430	380	410	556	1,180	775	540	404	360	341
18	508	502	420	380	410	534	933	731	540	430	360	346
19	506	506	420	380	410	510	863	642	580	412	360	340
20	506	516	410	380	410	538	731	638	680	410	396	343
21	506	532	410	380	420	578	734	626	760	406	389	341
22	500	548	420	380	420	562	722	664	720	400	494	339
23	500	563	420	380	420	540	674	672	580	399	494	339
24	497	557	420	380	430	520	635	658	540	418	443	340
25	503	560	430	390	450	500	603	619	528	504	458	332
26	500	554	440	390	457	520	590	568	512	563	420	337
27	500	542	430	400	465	526	582	546	498	556	455	341
28	503	533	420	400	472	492	578	538	496	406	381	344
29	506	521	410	400	------	622	619	548	500	400	369	347
30	503	521	390	400	------	938	626	556	480	396	365	347
31	500	------	360	390	------	982	------	538	------	395	364	------
TOTAL	17,777	15,211	14,024	11,640	11,214	26,223	24,843	19,201	17,829	13,874	12,545	10,425
MEAN	573	507	452	375	401	846	828	619	594	448	405	348
MAX	829	563	524	400	472	2,360	1,220	1,040	924	563	494	368
MIN	497	479	360	360	370	492	578	496	480	395	360	332
CFSM	.93	.82	.73	.61	.65	1.37	1.34	1.00	.96	.73	.66	.56
IN.	1.07	.92	.85	.70	.68	1.58	1.50	1.16	1.08	.84	.76	.63

CAL YR 1973 TOTAL 243,382 MEAN 667 MAX 4,440 MIN 330 CFSM 1.08 IN 14.70
WTR YR 1974 TOTAL 194,806 MEAN 534 MAX 2,360 MIN 332 CFSM .87 IN 11.76

05410500 KICKAPOO RIVER AT STEUBEN, WIS.

LOCATION.--LAT 43°11'27", LONG 90°52'28", IN NW 1/4 SEC.8, T.8 N., R.4 W., CRAWFORD COUNTY, ON RIGHT BANK 0.8 MI (1.3 KM) UPSTREAM FROM DUFFY CREEK, 1.0 MI (1.6 KM) NORTHWEST OF STEUBEN AND 14 MI (23 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--690 MI^2 (1,790 KM^2).

PERIOD OF RECORD.--MAY 1933 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 657.82 FT (200.50 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912. PRIOR TO OCT. 20, 1938, NONRECORDING GAGE AT SITE 1.0 MI (1.6 KM) UPSTREAM AT DATUM 1.3 FT (0.4 M) HIGHER.

AVERAGE DISCHARGE.--41 YEARS, 461 FT^3/S (13.06 M^3/S), 9.07 IN/YR (230 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,040 FT^3/S (86 M^3/S) MAR. 6, GAGE HEIGHT, 9.39 FT (2.862 M); MINIMUM DAILY, 400 FT^3/S (11.3 M^3/S) JAN. 1-13.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 10,800 FT^3/S (306 M^3/S) MAR. 28, 1961, GAGE HEIGHT, 12.33 FT (3.758 M); MINIMUM OBSERVED, 161 FT^3/S (4.56 M^3/S) AUG. 9, 1936, GAGE HEIGHT, 0.76 FT (0.232 M) SITE AND DATUM THEN IN USE.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIOD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 855: DRAINAGE AREA. WSP 1438: 1933-38.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9 TO MAR. 1.)

3.0	303	8.0	1,250
4.0	450	8.5	1,440
5.0	600	9.0	2,080
6.0	780	9.5	3,320
7.0	1,000		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	649	594	566	400	440	500	1,190	642	560	515	449	487
2	634	599	558	400	420	588	1,200	595	538	513	447	481
3	646	590	540	400	420	1,220	1,100	581	539	510	453	461
4	750	569	576	400	420	1,490	1,050	571	542	524	469	452
5	924	555	627	400	410	1,980	1,160	562	542	550	479	448
6	770	548	630	400	410	2,860	1,210	551	536	518	472	444
7	670	546	603	400	410	2,750	1,060	544	552	498	448	444
8	647	548	555	400	410	2,170	838	560	674	483	446	446
9	637	549	520	400	410	1,460	758	570	867	477	449	448
10	630	543	500	400	410	1,120	706	574	965	481	452	448
11	632	533	490	400	410	939	683	622	988	513	499	445
12	641	540	490	400	420	811	686	690	830	562	547	446
13	644	552	490	400	420	745	704	755	690	517	585	450
14	637	557	480	410	420	698	913	816	637	487	535	455
15	614	569	480	410	420	671	1,170	988	640	474	514	458
16	593	593	480	410	420	666	1,230	1,050	644	462	472	447
17	581	621	470	410	420	661	1,270	894	629	456	463	441
18	575	606	470	410	430	653	1,240	810	596	460	475	437
19	572	579	470	410	430	644	996	727	583	472	467	435
20	570	576	470	410	430	643	841	692	586	456	497	433
21	567	616	470	410	450	630	815	681	770	449	536	431
22	563	680	470	420	460	608	805	693	815	458	682	430
23	561	725	470	420	460	592	760	705	801	453	587	430
24	561	658	470	430	450	560	704	679	646	461	606	443
25	563	624	480	430	430	540	668	624	594	514	508	457
26	561	618	490	440	430	557	643	601	574	573	483	460
27	560	613	500	450	450	603	628	588	556	530	490	453
28	557	602	480	450	460	603	616	581	542	492	477	454
29	560	591	450	450	------	613	618	580	531	470	472	459
30	573	579	430	440	------	859	683	593	523	460	462	464
31	599	------	410	450	------	1,110	------	582	------	455	473	------
TOTAL	19,241	17,673	15,585	12,860	11,970	30,544	26,945	20,701	19,490	15,243	15,394	13,487
MEAN	621	589	503	415	428	985	898	668	650	492	497	450
MAX	924	725	630	450	460	2,860	1,270	1,050	988	573	682	487
MIN	557	533	410	400	410	500	616	544	523	449	446	430
CFSM	.90	.85	.73	.60	.62	1.43	1.30	.97	.94	.71	.72	.65
IN.	1.04	.95	.84	.69	.65	1.65	1.45	1.12	1.05	.82	.83	.73

CAL YR 1973 TOTAL 274,443 MEAN 752 MAX 4,400 MIN 380 CFSM 1.09 IN 14.80
WTR YR 1974 TOTAL 219,133 MEAN 600 MAX 2,860 MIN 400 CFSM .87 IN 11.81

PEAK DISCHARGE (BASE, 1,900 FT^3/S).--MAR. 6 (1700) 3,040 FT^3/S (9.39 FT).

RESERVOIRS IN WISCONSIN RIVER BASIN

THE 24 RESERVOIRS LISTED BELOW ARE USED TO STABILIZE THE FLOW OF THE WISCONSIN AND TOMAHAWK RIVERS FOR POWER UTILIZATION AND ARE ALSO USED FOR RECREATIONAL PURPOSES. THE FIRST 21 RESERVOIRS ARE OWNED AND OPERATED BY THE WISCONSIN VALLEY IMPROVEMENT CO., WHICH FURNISHES THE GAGE HEIGHTS AND CAPACITY TABLES. REVISED CAPACITY TABLES FOR ALL 21 RESERVOIRS WERE RECEIVED FROM THE COMPANY IN APRIL 1957 AND WERE USED TO COMPUTE MONTH-END USABLE CONTENTS BEGINNING SEPT. 30, 1955. ANOTHER REVISED CAPACITY TABLE FOR BURNT ROLLWAYS RESERVOIR WAS USED TO COMPUTE MONTH-END USABLE CONTENTS BEGINNING SEPT. 30, 1964. LAKE DUBAY IS OWNED BY THE CONSOLIDATED WATER POWER CO. PETENWELL AND CASTLE ROCK ARE OWNED AND OPERATED BY THE WISCONSIN RIVER POWER CO., WHICH FURNISHED THE GAGE HEIGHTS AND CAPACITY TABLES FOR THOSE TWO RESERVOIRS. MONTH-END CONTENTS ARE COMPUTED BY THE U.S. GEOLOGICAL SURVEY. THE USABLE CAPACITY OF THESE RESERVOIRS IS USUALLY LESS IN SUMMER THAN IN WINTER BECAUSE THE ALLOWABLE SUMMER DRAWDOWN IS LIMITED BY THE DEPARTMENT OF NATURAL RESOURCES IN THE INTEREST OF RIPARIAN PROPERTY OWNERS. THERE ARE OCCASIONALLY FORMAL OR INFORMAL CHANGES IN CAPACITY AND IN MINIMUM DRAWDOWN LEVELS. USABLE CAPACITY FIGURES LISTED BELOW ARE FOR WINTER REGULATION.

05390100 LAC VIEUX DESERT ON WISCONSIN RIVER, LAT 46°07'18", LONG 89°09'07", IN SE 1/4 NW 1/4 SEC.17, T.42 N., R.11 E., VILAS COUNTY, 4.8 MI (7.7 KM) NORTHWEST OF PHELPS, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 652,000,000 FT^3 (18,500,000 M^3). DRAINAGE AREA, 28 MI^2 (72 KM^2). DATUM OF GAGE IS 1,679.53 FT (511.42 M) ABOVE MEAN SEA LEVEL.

05390150 TWIN LAKES ON TWIN RIVER, LAT 46°01'20", LONG 89°10'05", IN SW 1/4 NE 1/4 SEC.19, T.41 N., R.11 E., VILAS COUNTY, 5.0 MI (8.0 KM) SOUTHWEST OF PHELPS, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 313,000,000 FT^3 (8,860,000 M^3). DRAINAGE AREA, 26 MI^2 (67 KM^2). ALTITUDE OF GAGE IS 1,640 FT (500 M), FROM RIVER-PROFILE MAP.

05390200 BUCKATABON LAKES ON BUCKATABON CREEK, LAT 46°01'18", LONG 89°18'40", IN SE 1/4 NE 1/4 SEC.24, T.41 N., R.9 E., VILAS COUNTY, 3.3 MI (5.3 KM) SOUTHWEST OF CONOVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 130,000,000 FT^3 (3,680,000 M^3). DRAINAGE AREA, 14 MI^2 (36 KM^2). DATUM OF GAGE IS 1,637.85 FT (499.22 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390250 SEVENMILE LAKE ON SEVENMILE CREEK, LAT 45°52'30", LONG 89°04'07", IN SE 1/4 NE 1/4 SEC.11, T.39 N., R.11 E., ONEIDA COUNTY, 9.1 MI (14.6 KM) SOUTHEAST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 93,000,000 FT^3 (2,630,000 M^3). DRAINAGE AREA, 14 MI^2 (36 KM^2). DATUM OF GAGE IS 1,646.30 FT (501.79 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390300 LOWER NINEMILE LAKE ON NINEMILE CREEK, LAT 45°53'37", LONG 89°07'15", IN NE 1/4 NW 1/4 SEC.4, T.39 N., R.11 E., ONEIDA COUNTY, 6.6 MI (10.6 KM) SOUTHEAST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 121,000,000 FT^3 (3,430,000 M^3). DRAINAGE AREA, 25 MI^2 (65 KM^2). DATUM OF GAGE IS 1,638.27 FT (499.34 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390350 BURNT ROLLWAYS RESERVOIR ON EAGLE RIVER, LAT 45°53'40", LONG 89°08'28", IN NE 1/4 NW 1/4 SEC.5, T.39 N., R.11 E., ONEIDA COUNTY, 5.3 MI (8.5 KM) SOUTHEAST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 779,000,000 FT^3 (22,100,000 M^3). THIS RESERVOIR INCLUDES 18 LAKES CONTROLLED BY THE SAME DAM. DRAINAGE AREA, 129 MI^2 (334 KM^2). ALTITUDE OF GAGE IS 1,620 FT (494 M), FROM RIVER-PROFILE MAP.

05390400 LONG LAKE ON DEERSKIN RIVER, LAT 46°02'37", LONG 89°02'44", IN NW 1/4 SE 1/4 SEC.7, T.41 N., R.12 E., VILAS COUNTY, 2.5 MI (4.0 KM) SOUTHEAST OF PHELPS, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 400,000,000 FT^3 (11,300,000 M^3). DRAINAGE AREA, 35 MI^2 (91 KM^2). DATUM OF GAGE IS 1,695.14 FT (516.68 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390600 DEERSKIN LAKE ON LITTLE DEERSKIN RIVER, LAT 45°59'07", LONG 89°09'40", IN SE 1/4 SEC.31, T.41 N., R.11 E., VILAS COUNTY, 6.3 MI (10.1 KM) NORTHEAST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 22,000,000 FT^3 (623,000 M^3). DRAINAGE AREA, 5 MI^2 (13 KM^2). DATUM OF GAGE IS 1,640.16 FT (499.92 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390650 SUGAR CAMP RESERVOIR ON SUGAR CAMP CREEK, LAT 45°52'19", LONG 89°23'40", IN NE 1/4 SEC.17, T.39 N., R.9 E., ONEIDA COUNTY, 7.6 MI (12.2 KM) SOUTHWEST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 471,000,000 FT^3 (13,300,000 M^3). DRAINAGE AREA, 59 MI^2 (153 KM^2). DATUM OF GAGE IS 1,591.94 FT (485.22 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390700 LITTLE ST. GERMAIN LAKE ON LITTLE ST. GERMAIN CREEK, LAT 45°53'57", LONG 89°27'08", IN SE 1/4 SEC.35, T.40 N., R.8 E., VILAS COUNTY, 9.6 MI (15.4 KM) WEST OF TOWN OF EAGLE RIVER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 79,000,000 FT^3 (2,240,000 M^3). DRAINAGE AREA, 19 MI^2 (49 KM^2). DATUM OF GAGE IS 1,611.54 FT (491.20 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390750 BIG ST. GERMAIN LAKE ON ST. GERMAIN RIVER, LAT 45°55'06", LONG 89°31'55", IN SE 1/4 SEC.30, T.40 N., R.8 E., VILAS COUNTY, 5.0 MI (8.0 KM) SOUTH OF SAYNER, WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 202,000,000 FT^3 (5,720,000 M^3). DRAINAGE AREA, 69 MI^2 (179 KM^2). DATUM OF GAGE IS 1,588.32 FT (484.12 M) ABOVE MEAN SEA LEVEL (LEVELS BY PUBLIC SERVICE COMMISSION OF WISCONSIN).

05390800 PICKEREL LAKE ON ST. GERMAIN RIVER, LAT 45°52'22", LONG 89°31'47", IN NE 1/4 SEC.18, T.39 N., R.8 E., ONEIDA COUNTY, 5.0 MI (8.0 KM) NORTHEAST OF TOWN OF LAKE TOMAHAWK, WIS., USED AS A RESERVOIR SINCE 1935, HAS A USABLE CAPACITY OF 338,000,000 FT^3 (9,570,000 M^3). DRAINAGE AREA, 78 MI^2 (202 KM^2). DATUM OF GAGE IS 1,582.00 FT (482.19 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05390900 RAINBOW LAKE ON WISCONSIN RIVER, LAT 45°50'02", LONG 89°32'42", IN SW 1/4 SEC.30, T.39 N., R.8 E., ONEIDA COUNTY, 800 FT (244 M) UPSTREAM FROM U.S. GEOLOGICAL SURVEY RIVER GAGING STATION, 2.7 MI (4.3 KM) NORTHEAST OF TOWN OF LAKE TOMAHAWK, WIS., USED AS A RESERVOIR SINCE 1935, HAS A USABLE CAPACITY OF 2,181,000,000 FT^3 (61,770,000 M^3). DRAINAGE AREA, 740 MI^2 (1,917 KM^2). DATUM OF GAGE IS 1,570.00 FT (478.54 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05391100 SOUTH PELICAN LAKE ON PELICAN RIVER, LAT 45°31'37", LONG 89°12'24", IN S 1/2 SEC.11, T.35 N., R.10 E., ONEIDA COUNTY, 2.8 MI (4.5 KM) NORTHWEST OF TOWN OF PELICAN LAKE, WIS., USED AS A RESERVOIR SINCE 1909, HAS A USABLE CAPACITY OF 305,000,000 FT^3 (8,640,000 M^3). DRAINAGE AREA, 22 MI^2 (57 KM^2). DATUM OF GAGE IS 1,589.98 FT (484.63 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

RESERVOIRS IN WISCONSIN RIVER BASIN--CONTINUED

05391300 NORTH PELICAN LAKES (INCLUDES MOEN LAKES) ON NORTH BRANCH PELICAN RIVER, LAT 45°38'05", LONG 89°14'38", IN SE 1/4 SEC.4, T.36 N., R.10 E., ONEIDA COUNTY, 0.2 MI (0.3 KM) BELOW TWIN LAKES CREEK AND 8.0 MI (12.9 KM) EAST OF RHINELANDER, WIS., CITY LIMITS, USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 218,000,000 FT^3 (6,170,000 M^3). DRAINAGE AREA 71 MI^2 (184 KM^2). DATUM OF GAGE IS 1,569.10 FT (478.26 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05392100 MINOCQUA LAKE ON TOMAHAWK RIVER, LAT 45°52'35", LONG 89°43'38", ON LINE BETWEEN SECS.10 AND 15, T.39 N., R.6 E., ONEIDA COUNTY, 1.0 MI (1.6 KM) WEST OF MINOCQUA, WIS., USED AS A RESERVOIR SINCE 1910, HAS A USABLE CAPACITY OF 628,000,000 FT^3 (17,800,000 M^3). DRAINAGE AREA, 89 MI^2 (231 KM^2). DATUM OF GAGE IS 1,584.56 FT (482.97 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05392200 SQUIRREL LAKE ON SQUIRREL RIVER, LAT 45°50'37", LONG 89°54'13", IN NE 1/4 SEC.30, T.39 N., R.5 E., ONEIDA COUNTY, 9.4 MI (15.1 KM) WEST OF MINOCQUA WIS., USED AS A RESERVOIR SINCE 1908, HAS A USABLE CAPACITY OF 182,000,000 FT^3 (5,150,000 M^3). DRAINAGE AREA, 17 MI^2 (44 KM^2). DATUM OF GAGE IS 1,560.93 FT (475.77 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05392300 WILLOW RESERVOIR ON TOMAHAWK RIVER, LAT 45°42'45", LONG 89°50'38", IN NE 1/4 SEC.10, T.37 N., R.5 E., ONEIDA COUNTY, 8.8 MI (14.2 KM) SOUTHWEST OF HAZELHURST, WIS., USED AS A RESERVOIR SINCE 1927, HAS A USABLE CAPACITY OF 3,302,000,000 FT^3 (93,510,000 M^3). DRAINAGE AREA, 327 MI^2 (847 KM^2). DATUM OF GAGE IS 1,505.87 FT (458.99 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05392500 LAKE NOKOMIS ON TOMAHAWK RIVER, LAT 45°32'20", LONG 89°44'48", IN NW 1/4 SEC.9, T.35 N., R.6 E., LINCOLN COUNTY, AT U.S. GEOLOGICAL SURVEY RIVER GAGING STATION, 0.5 MI (0.8 KM) EAST OF BRADLEY, WIS., USED AS A RESERVOIR SINCE 1912, HAS A USABLE CAPACITY OF 1,808,000,000 FT^3 (51,200,000 M^3). DRAINAGE AREA, 548 MI^2 (1,419 KM^2). DATUM OF GAGE IS 1,448.24 FT (441.42 M) ABOVE MEAN SEA LEVEL.

05393600 SPIRIT RIVER FLOWAGE ON SPIRIT RIVER, LAT 45°26'18", LONG 89°44'30", IN NE 1/4 SEC.16, T.34 N., R.6 E., LINCOLN COUNTY, 2.0 MI (3.2 KM) SOUTH OF TOMAHAWK, WIS., USED AS A RESERVOIR SINCE 1923, HAS A USABLE CAPACITY OF 756,000,000 FT^3 (21,400,000 M^3). DRAINAGE AREA, 174 MI^2 (451 KM^2). DATUM OF GAGE IS 1,420.53 FT (432.98 M) ABOVE MEAN SEA LEVEL.

05399600 BIG EAU PLEINE RESERVOIR ON BIG EAU PLEINE RIVER LAT 44°43'52", LONG 89°45'35", IN SW 1/4 SEC.14, T.26 N., R.6 E., MARATHON COUNTY, 3.0 MI (4.8 KM) NORTHEAST OF DANCY, WIS., USED AS A RESERVOIR SINCE 1937, HAS A CAPACITY OF 4,457,000,000 FT^3 (126,200,000 M^3). DRAINAGE AREA, 365 MI^2 (945 KM^2). DATUM OF GAGE IS 1,115.00 FT (339.85 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN VALLEY IMPROVEMENT CO.).

05400295 LAKE DUBAY ON WISCONSIN RIVER, LAT 44°39'54", LONG 89°39'03", IN SEC.10, T.25 N., R.7 E., WOOD COUNTY, 1.5 MI (2.4 KM) DOWNSTREAM FROM LITTLE EAU PLEINE RIVER AND 10.5 MI (16.9 KM) NORTHWEST OF STEVENS POINT, HAS A USABLE CAPACITY OF 2,117,000,000 FT^3 (59,950,000 M^3). DRAINAGE AREA, 4,890 MI^2 (12,665 KM^2). DATUM OF GAGE IS AT SEA LEVEL (POWER COMPANY LEVELS).

05401400 PETENWELL FLOWAGE ON WISCONSIN RIVER, LAT 44°03'26", LONG 90°01'18", IN SE 1/4 SEC.4, T.18 N., R.4 E., ADAMS COUNTY, 5.2 MI (8.4 KM) UPSTREAM FROM ROCHE A CRI CREEK, 2.4 MI (3.9 KM) WEST OF STRONGS PRAIRIE, WIS., AND 3.5 MI (5.6 KM) NORTHEAST OF NECEDAH, WIS., USED AS A RESERVOIR SINCE 1950, HAS A TOTAL CAPACITY OF 19,880,000,000 FT^3 (563,000,000 M^3). DRAINAGE AREA, 5,869 MI^2 (15,201 KM^2). DATUM OF GAGE IS 790.2 FT (240.9 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN RIVER POWER CO.).

05403200 CASTLE ROCK FLOWAGE ON WISCONSIN RIVER, LAT 43°51'48", LONG 89°57'38", IN SEC.13, T.16 N., R.4 E., ADAMS COUNTY, 4.5 MI (7.2 KM) UPSTREAM FROM DUCK CREEK, AND 2.0 MI (3.2 KM) SOUTH OF GERMANTOWN, WIS., AND 7.0 MI (11.3 KM) NORTHEAST OF MAUSTON, WIS., USED AS A RESERVOIR SINCE 1950, HAS A TOTAL CAPACITY OF 7,630,000,000 FT^3 (216,000,000 M^3). DRAINAGE AREA, 6,860 MI^2 (17,767 KM^2). DATUM OF GAGE IS 790.2 FT (240.9 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN RIVER POWER CO.).

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	LAC VIEUX DESERT	TWIN LAKES	BUCKATABON LAKE	SEVENMILE LAKE	LOWER NINEMILE LAKE	BURNT ROLLWAYS RESERVOIR	LONG LAKE	DEERSKIN LAKE
SEPT. 30.....	263	244	102	70	100	651	199	14
OCT. 31.....	188	154	64	42	58	526	132	7
NOV. 30.....	122	63	28	22	23	370	61	7
DEC. 31.....	66	0	21	10	3	165	6	6
JAN. 31.....	18	0	21	8	4	79	0	6
FEB. 28.....	31	0	20	10	3	0	0	5
MAR. 31.....	77	32	44	25	61	108	42	8
APR. 30.....	218	122	97	59	100	601	168	14
MAY 31.....	285	162	118	88	116	762	203	17
JUNE 30.....	336	220	117	85	121	758	219	18
JULY 31.....	309	226	113	85	119	701	214	18
AUG. 31.....	367	236	114	81	120	752	231	18
SEPT. 30.....	262	190	95	63	104	679	194	15

RESERVOIRS IN WISCONSIN RIVER BASIN--CONTINUED

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	SUGAR CAMP RESERVOIR	LITTLE ST. GERMAIN LAKE	BIG ST. GERMAIN LAKE	PICKEREL LAKE	RAINBOW LAKE	SOUTH PELICAN LAKE	NORTH PELICAN LAKES	MINOCQUA LAKE
SEPT. 30.....	352	65	151	268	1,251	254	136	437
OCT. 31.....	265	45	128	262	1,137	216	88	316
NOV. 30.....	77	21	100	248	1,428	190	74	217
DEC. 31.....	22	2	83	239	1,360	114	34	104
JAN. 31.....	8	0	46	214	747	48	22	8
FEB. 28.....	62	2	27	114	428	3	30	5
MAR. 31.....	110	9	46	215	119	36	54	141
APR. 30.....	298	45	151	257	817	208	148	387
MAY 31.....	411	75	178	288	1,389	185	148	459
JUNE 30.....	406	76	161	260	1,971	246	135	596
JULY 31.....	383	73	160	258	1,280	244	129	576
AUG. 31.....	407	74	158	258	1,545	252	128	488
SEPT. 30.....	433	66	182	245	1,684	277	154	471

	SQUIRREL LAKE	WILLOW RESERVOIR	LAKE NOKOMIS	SPIRIT RIVER FLOWAGE	BIG EAU PLEINE RESERVOIR	LAKE DUBAY	PETENWELL FLOWAGE	CASTILE ROCK FLOWAGE
SEPT. 30.....	155	2,188	1,551	562	1.693	4,362	18,571	6,586
OCT. 31.....	140	1,859	1,199	582	1,716	4,475	18,719	6,718
NOV. 30.....	71	1,475	1,276	599	1,688	4,486	18,750	6,621
DEC. 31.....	23	1,141	1,143	417	1,212	4,265	17,932	6,177
JAN. 31.....	0	558	549	213	297	4,029	17,210	5,446
FEB. 28.....	65	100	258	92	274	3,284	16,427	4,758
MAR. 31.....	35	428	53	51	1,361	3,113	16,192	5,094
APR. 30.....	95	1,816	1,270	741	4,067	4,345	18,090	6,251
MAY 31.....	151	2,579	1,711	735	4,103	4,338	18,037	6,357
JUNE 30.....	172	3,065	1,780	582	3,987	4,076	17,474	5,760
JULY 31.....	167	2,397	1,259	412	3,088	4,110	17,324	5,693
AUG. 31.....	177	2,553	1,210	476	2,816	3,972	17,298	5,693
SEPT. 30.....	173	2,305	1,345	632	2,388	4,011	17,133	5,748

05413500 GRANT RIVER AT BURTON, WIS.

LOCATION.--LAT 42°43'13", LONG 90°49'09", IN NW 1/4 SEC.23, T.3 N., R.4 W., GRANT COUNTY, ON RIGHT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE AT BURTON, 5.9 MI (9.5 KM) NORTHWEST OF POTOSI AND 9.5 MI (15.3 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--267 MI^2 (691 KM^2).

PERIOD OF RECORD.--OCTOBER 1934 TO CURRENT YEAR. PUBLISHED AS "NEAR BURTON" OCTOBER 1934 TO SEPTEMBER 1947. RECORDS PUBLISHED FOR BOTH SITES MARCH TO SEPTEMBER 1947. OCTOBER 1934, MONTHLY DISCHARGE ONLY, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 606.89 FT (184.980 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912. OCT. 17, 1934, TO SEPT. 30, 1974, NONRECORDING GAGE AT SITE 6 MI (10 KM) UPSTREAM AT DATUM 33.18 FT (10.113 M) HIGHER. MAR. 18, 1947, TO JULY 27, 1949, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--40 YEARS, 165 FT^3/S (4.673 M^3/S), 8.39 IN/YR (213 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 7,830 FT^3/S (222 M^3/S) JUNE 21, GAGE HEIGHT, 21.59 FT (6.581 M); MINIMUM DAILY, 140 FT^3/S (3.96 M^3/S) DEC. 18-23, JAN. 3-10.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 25,000 FT^3/S (708 M^3/S) JULY 16, 1950, GAGE HEIGHT, 24.82 FT (7.565 M), FROM RATING CURVE EXTENDED ABOVE 18,000 FT^3/S (510 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; MINIMUM, 21 FT^3/S (0.59 M^3/S) MAR. 4, 1954, RESULT OF FREEZEUP.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1308: 1935-37(M), 1941(M), 1945-46(M), 1949(M). WSP 1728: 1942(M).

COOPERATION.--SIX DISCHARGE MEASUREMENTS FURNISHED BY CORPS OF ENGINEERS.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 12 TO JAN. 25, FEB. 2-22, 24-28, MAR. 23.)

OCT. 1 TO JAN. 27				JAN. 28 TO SEPT. 30			
5.8	133	12.0	1,075	5.9	146	14.0	1,400
6.0	152	14.0	1,575	6.9	256	16.0	1,825
7.0	253	16.0	2,240	8.0	415	18.0	2,540
8.0	368	18.0	3,165	10.0	728	19.5	3,760
10.0	635			12.0	1,048		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	188	166	150	358	278	270	172	198	292	171	192
2	209	182	169	150	300	1,020	243	169	195	316	174	182
3	206	177	176	140	240	2,440	248	169	190	277	181	178
4	288	173	199	140	200	690	357	164	189	299	219	173
5	209	172	285	140	190	435	266	160	186	264	175	170
6	202	173	207	140	180	274	237	160	196	248	167	168
7	209	177	190	140	170	249	226	162	306	237	168	169
8	204	177	180	140	160	230	211	217	334	230	169	169
9	204	166	170	140	160	342	203	184	472	225	166	166
10	198	168	160	140	160	283	201	174	336	237	187	163
11	218	174	160	150	160	224	197	212	255	255	345	165
12	220	177	170	150	170	228	219	190	229	230	239	166
13	199	180	160	150	180	212	203	190	224	220	238	174
14	191	182	160	150	170	198	486	475	274	212	184	161
15	189	200	150	160	160	199	484	278	367	204	174	159
16	185	191	150	160	160	198	342	372	237	197	201	157
17	185	176	150	160	170	187	301	417	223	193	472	156
18	187	176	140	170	180	184	274	322	213	192	198	155
19	183	173	140	250	600	183	250	308	215	215	182	154
20	184	179	140	1,600	580	176	241	516	367	198	226	153
21	181	254	140	1,500	700	172	249	352	3,710	186	269	152
22	181	208	140	900	540	170	233	411	1,220	193	566	151
23	180	186	140	706	191	160	213	311	789	187	238	151
24	182	190	150	500	180	150	203	276	557	180	195	155
25	180	190	250	640	180	150	198	259	474	257	184	153
26	178	181	400	1,370	170	160	193	246	418	384	181	152
27	178	180	300	2,510	160	163	190	236	379	204	659	152
28	180	178	220	412	200	179	189	236	349	189	301	155
29	180	172	190	228	------	339	193	248	327	181	221	178
30	179	170	170	366	------	1,020	186	228	313	176	203	157
31	186	------	160	813	------	329	------	217	------	172	219	------
TOTAL	6,064	5,470	5,682	14,465	6,969	11,222	7,506	8,031	13,742	7,050	7,472	4,886
MEAN	196	182	183	467	249	362	250	259	458	227	241	163
MAX	288	254	400	2,510	700	2,440	486	516	3,710	384	659	192
MIN	178	166	140	140	160	150	186	160	186	172	166	151
CFSM	.73	.68	.69	1.75	.93	1.36	.94	.97	1.72	.85	.90	.61
IN.	.84	.76	.79	2.02	.97	1.56	1.05	1.12	1.91	.98	1.04	.68

CAL YR 1973 TOTAL 117,432 MEAN 322 MAX 3,710 MIN 140 CFSM 1.21 IN 16.36
WTR YR 1974 TOTAL 98,559 MEAN 270 MAX 3,710 MIN 140 CFSM 1.01 IN 13.73

PEAK DISCHARGE (BASE, 2,400 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	0700	19.33	4,110	6-21	1045	21.59	7,830
3- 3	0300	19.56	3,840				

05414000 PLATTE RIVER NEAR ROCKVILLE, WIS.

LOCATION.--LAT 42°43'52", LONG 90°38'25", IN SW 1/4 SEC.17, T.3 N., R.2 W., GRANT COUNTY, ON RIGHT BANK JUST DOWNSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY B, 0.8 MI (1.3 KM) UPSTREAM FROM BLAKELY BRANCH, 2.2 MI (3.5 KM) EAST OF ROCKVILLE, 4.5 MI (7.2 KM) NORTHEAST OF POTOSI, AND 15.2 MI (24.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--139 MI^2 (360 KM^2).

PERIOD OF RECORD.--OCTOBER 1934 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR OCTOBER AND NOVEMBER 1934, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 642.96 FT (195.974 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912. PRIOR TO OCT. 1, 1941, NONRECORDING GAGE AT SITE 1.3 MI (2.1 KM) UPSTREAM AT DATUM 12.55 FT (3.82 M) HIGHER. OCT. 1, 1941, TO JUNE 29, 1949, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--40 YEARS, 97.5 FT^3/S (2.761 M^3/S), 9.53 IN/YR (242 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 6,370 FT^3/S (180 M^3/S) JAN. 27, GAGE HEIGHT, 11.29 FT (3.441 M); MINIMUM, 50 FT^3/S (1.42 M^3/S) DEC. 17, GAGE HEIGHT, 3.24 FT (0.988 M), RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 43,500 FT^3/S (1,230 M^3/S) JULY 16, 1950, GAGE HEIGHT, 17.26 FT (5.261 M), FROM RATING CURVE EXTENDED ABOVE 7,000 FT^3/S (198 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; NO FLOW NOV. 24, 1950.

REMARKS.--RECORDS FAIR EXCEPT THOSE FOR JUNE TO SEPTEMBER, WHICH ARE GOOD.

REVISIONS (WATER YEARS).--WSP 1438: 1935-36, 1937(M), 1939(M), 1941-43, 1946(M).

COOPERATION.--FIVE DISCHARGE MEASUREMENTS FURNISHED BY CORPS OF ENGINEERS.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8 TO JAN. 19, FEB. 2-28.)

OCT. 1 TO MAR. 2				MAR. 3 TO JUNE 20				JUNE 21 TO SEPT. 30			
3.3	61	6.0	750	3.5	100	7.0	1,120	3.5	78	6.0	750
3.6	113	7.0	1,050	4.0	204	8.0	1,640	4.0	182	7.0	1,120
4.0	194	8.0	1,600	5.0	450	9.0	2,400	5.0	450	8.0	1,640
5.0	450			6.0	750						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	107	82	68	189	136	148	118	136	184	112	145
2	109	105	82	66	150	1,110	150	116	132	194	112	138
3	121	102	79	66	130	1,730	152	116	130	173	114	131
4	198	100	105	64	120	588	173	112	128	167	160	127
5	141	92	137	64	100	303	144	112	124	160	114	123
6	129	86	104	64	98	197	132	110	124	156	108	123
7	135	87	91	64	92	140	126	112	152	147	106	123
8	133	87	90	64	90	104	112	134	146	145	104	123
9	127	84	84	64	88	219	126	120	322	142	104	118
10	133	80	82	64	86	160	116	118	191	211	142	116
11	159	82	80	64	86	130	104	164	162	173	189	116
12	137	82	80	66	94	120	124	116	148	151	147	112
13	127	84	78	68	90	120	128	116	158	147	140	114
14	123	87	76	70	88	120	422	136	248	138	116	106
15	121	98	74	76	86	120	325	182	189	134	108	102
16	109	92	72	80	88	130	219	211	158	129	129	96
17	104	86	72	86	90	120	173	258	152	127	147	96
18	102	86	72	100	110	110	171	224	146	125	114	98
19	102	80	70	160	270	110	164	215	142	129	108	98
20	102	87	70	1,210	270	110	156	253	672	125	232	96
21	100	135	70	521	310	110	158	248	1,510	120	145	98
22	100	105	72	323	230	110	150	222	663	120	252	96
23	102	98	74	208	160	100	140	173	429	118	142	96
24	102	104	78	189	140	94	134	169	331	116	125	96
25	104	100	200	228	110	96	128	164	280	225	116	94
26	104	94	210	1,140	100	98	126	158	247	175	301	92
27	102	94	110	1,880	96	100	124	152	228	131	1,130	91
28	102	91	94	252	110	110	126	152	211	123	223	87
29	102	87	84	209	------	136	134	156	199	118	178	94
30	102	84	78	498	------	260	124	152	192	116	158	94
31	105	------	74	525	------	160	------	144	------	112	180	------
TOTAL	3,666	2,786	2,824	8,601	3,671	7,251	4,709	4,933	8,050	4,531	5,556	3,239
MEAN	118	92.9	91.1	277	131	234	157	159	268	146	179	108
MAX	198	135	210	1,880	310	1,730	422	258	1,510	225	1,130	145
MIN	100	80	70	64	86	94	104	110	124	112	104	87
CFSM	.85	.67	.66	1.99	.94	1.68	1.13	1.14	1.93	1.05	1.29	.78
IN.	.98	.75	.76	2.30	.98	1.94	1.26	1.32	2.15	1.21	1.49	.87

CAL YR 1973 TOTAL 63,293 MEAN 173 MAX 1,270 MIN 70 CFSM 1.24 IN 16.94
WTR YR 1974 TOTAL 59,817 MEAN 164 MAX 1,880 MIN 64 CFSM 1.18 IN 16.01

PEAK DISCHARGE (BASE, 2,100 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	0200	11.29	6,370	6-20	1830	10.63	4,830
3- 2	2200	10.36	4,310	8-27	0200	10.76	5,110

05415000 GALENA RIVER AT BUNCOMBE, WIS.

LOCATION.--LAT 42°30'49", LONG 90°22'40", IN SW 1/4 SEC.33, T.1 N., R.1 E., LAFAYETTE COUNTY, ON LEFT BANK AT BUNCOMBE, 0.6 MI (1.0 KM) UPSTREAM FROM COON BRANCH, 1.5 MI (2.4 KM) UPSTREAM FROM SCRABBLE BRANCH, 2.0 MI (3.2 KM) UPSTREAM FROM WISCONSIN-ILLINOIS STATE LINE, AND 3.5 MI (5.6 KM) SOUTHEAST OF HAZEL GREEN.

DRAINAGE AREA.--128 MI^2 (332 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 682.77 FT (208.108 M) ABOVE MEAN SEA LEVEL, ADJUSTMENT OF 1912 (CORPS OF ENGINEERS BENCH MARK). PRIOR TO DEC. 1, 1939, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--35 YEARS, 77.4 FT^3/S (2.192 M^3/S), 8.21 IN/YR (209 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 6,760 FT^3/S (191 M^3/S) JAN. 26, GAGE HEIGHT, 13.43 FT (4.093 M); MINIMUM, 29 FT^3/S (0.82 M^3/S) MAR. 24, GAGE HEIGHT 3.08 FT (0.939 M), RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 29,700 FT^3/S (841 M^3/S) JUNE 29, 1969, GAGE HEIGHT, 19.57 FT (5.965 M) FROM RATING CURVE EXTENDED ABOVE 8,100 FT^3/S (229 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENTS AT GAGE HEIGHTS 15.68 FT (4.779 M) AND 19.57 FT (5.965 M); MINIMUM, 0.8 FT^3/S (0.023 M^3/S) MAR. 3, 1954.
FLOOD IN FEBRUARY 1937 REACHED A STAGE OF ABOUT 17.1 FT (5.212 M), FROM INFORMATION BY LOCAL RESIDENT, DISCHARGE, 18,000 FT^3/S (510 M^3/S).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1438: 1942(P), 1943(M), 1944(P), 1945(M).

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 8, 9, 11-25, DEC. 28 TO JAN. 18, FEB. 2-20, 24, 25.)

OCT. 1 TO JAN. 26				JAN. 27 TO SEPT. 30			
3.2	50	6.0	650	3.2	50	6.0	822
3.6	86	7.0	1,000	3.6	108	7.0	1,280
4.0	146	8.0	1,420	4.0	184	9.0	2,480
5.0	362			5.0	452		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	70	68	60	110	262	98	73	130	158	88	79
2	98	67	70	58	90	972	94	70	121	199	92	77
3	92	66	71	56	76	776	98	70	115	154	98	76
4	109	66	108	54	68	498	124	63	110	146	108	74
5	90	65	144	54	64	269	103	64	105	139	91	73
6	84	63	96	52	62	154	94	62	121	131	85	74
7	93	65	85	52	62	133	91	64	158	126	85	74
8	86	65	78	52	60	164	82	100	152	122	82	75
9	82	61	74	52	58	286	82	79	902	121	82	74
10	90	61	69	52	56	188	82	71	348	135	146	73
11	117	65	66	54	56	135	79	130	217	137	191	75
12	88	65	70	54	58	131	86	97	180	126	105	76
13	82	64	66	56	60	112	80	102	164	121	95	75
14	77	67	64	56	60	103	180	210	254	113	86	71
15	76	86	62	62	58	110	154	137	274	108	83	71
16	72	73	60	64	58	112	124	250	160	105	94	70
17	71	66	60	68	62	97	112	257	146	102	121	68
18	72	66	58	76	200	95	102	202	139	102	89	67
19	71	65	58	246	270	91	94	178	137	108	85	68
20	69	66	56	935	280	86	89	204	566	100	82	65
21	69	101	56	401	369	83	94	178	2,400	97	84	65
22	68	81	58	208	252	85	88	538	756	100	186	65
23	68	74	67	90	97	71	80	252	366	97	98	65
24	68	96	66	73	80	68	76	208	274	94	86	67
25	67	84	150	82	78	66	74	184	240	97	83	67
26	66	78	234	1,120	102	68	73	170	217	108	82	66
27	67	78	92	2,050	98	71	70	156	199	95	143	65
28	68	78	80	195	336	73	76	154	184	92	92	74
29	69	72	74	112	------	91	122	170	174	91	84	90
30	67	71	68	673	------	160	82	230	170	88	81	67
31	71	------	64	592	------	103	------	144	------	86	83	------
TOTAL	2,471	2,145	2,492	7,809	3,280	5,713	2,883	4,867	9,479	3,598	3,090	2,146
MEAN	79.7	71.5	80.4	252	117	184	96.1	157	316	116	99.7	71.5
MAX	117	101	234	2,050	369	972	180	538	2,400	199	191	90
MIN	66	61	56	52	56	66	70	62	105	86	81	65
CFSM	.62	.56	.63	1.97	.91	1.44	.75	1.23	2.47	.91	.78	.56
IN.	.72	.62	.72	2.27	.95	1.66	.84	1.41	2.75	1.05	.90	.62

CAL YR 1973	TOTAL 53,104	MEAN 145	MAX 981	MIN 56	CFSM 1.13	IN 15.43
WTR YR 1974	TOTAL 49,973	MEAN 137	MAX 2,400	MIN 52	CFSM 1.07	IN 14.52

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-20	0915	10.72	3,060	1-26	2400	13.43	6,760
6-21	0330	12.76	5,740				

05426000 CRAWFISH RIVER AT MILFORD, WIS.

LOCATION.--LAT 43°06'00", LONG 88°50'58", IN SW 1/4 SEC.4, T.7 N., R.14 E., JEFFERSON COUNTY, NEAR LEFT BANK ON UPSTREAM SIDE OF HIGHWAY BRIDGE IN MILFORD, 1.4 MI (2.2 KM) DOWNSTREAM FROM ROCK CREEK AND 9.8 MI (15.8 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--732 MI^2 (1,896 KM^2).

PERIOD OF RECORD.--JUNE 1931 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 779.40 FT (237.561 M) ABOVE MEAN SEA LEVEL. PRIOR TO JULY 28, 1966, NONRECORDING GAGE AT PRESENT SITE AND DATUM.

AVERAGE DISCHARGE.--43 YEARS, 353 FT^3/S (9.997 M^3/S), 6.55 IN/YR (166 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,210 FT^3/S (90.9 M^3/S) MAR. 9, GAGE HEIGHT, 7.92 FT (2.414 M); MINIMUM 34 FT^3/S (0.96 M^3/S) SEPT. 24, GAGE HEIGHT, 1.64 FT (0.500 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 6,140 FT^3/S (174 M^3/S) APR. 6, 1959, GAGE HEIGHT, 11.15 FT (3.398 M); MINIMUM OBSERVED, 0.2 FT^3/S (0.006 M^3/S) SEPT. 15, 1958, GAGE HEIGHT, 1.11 FT (0.338 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. SOME DIURNAL FLUCTUATION AT LOW FLOW POSSIBLE, DUE TO SMALL DAMS UPSTREAM.

REVISIONS (WATER YEARS).--WSP 805: DRAINAGE AREA. WSP 975: 1937-38. WSP 1438: 1932-33(M), 1935(M), 1937, 1938-41(M), 1943-44(M), 1947-48(M).

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11 TO MAR. 5.)

1.7	45	4.0	950
2.0	112	6.0	2,000
2.5	280	8.0	3,270
3.0	495		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	246	388	260	1,100	640	1,460	1,200	877	579	141	150
2	204	282	362	220	1,100	660	1,500	1,090	816	471	138	144
3	212	308	374	190	1,100	1,000	1,570	1,030	738	449	129	143
4	264	315	423	160	1,000	1,400	1,700	909	675	458	156	125
5	277	301	471	140	1,000	1,900	1,740	825	642	405	144	114
6	286	268	531	130	940	2,360	1,700	756	579	353	141	105
7	307	245	531	130	880	2,890	1,740	638	553	320	132	99
8	314	251	549	130	840	3,110	1,750	606	566	284	129	92
9	309	220	558	130	800	3,170	1,650	571	647	253	121	93
10	324	213	444	130	760	3,140	1,550	527	937	256	101	87
11	333	213	430	130	720	3,050	1,460	503	1,140	253	112	74
12	327	209	380	130	700	2,980	1,360	553	1,310	249	132	109
13	360	213	360	120	680	2,840	1,340	549	1,400	253	156	113
14	350	227	340	120	680	2,640	1,710	575	1,420	256	144	79
15	340	260	330	120	660	2,520	1,970	606	1,410	245	129	97
16	320	238	310	120	660	2,430	2,180	702	1,350	216	135	99
17	300	206	290	120	660	2,310	2,240	932	1,240	179	175	98
18	280	231	280	120	660	2,180	2,270	1,090	1,170	179	195	91
19	270	245	270	120	680	2,140	2,240	1,230	1,130	182	195	93
20	260	227	250	130	680	2,030	2,090	1,280	1,110	163	175	90
21	250	209	240	150	700	1,920	1,940	1,270	1,130	141	144	99
22	250	272	230	170	720	1,810	1,930	1,290	1,140	163	172	94
23	250	300	220	240	700	1,680	1,930	1,280	1,110	163	172	66
24	240	324	220	290	680	1,570	1,820	1,290	1,050	147	150	51
25	240	349	220	350	640	1,490	1,710	1,280	984	147	124	95
26	240	357	230	400	620	1,410	1,640	1,250	913	169	112	78
27	240	388	240	540	620	1,330	1,530	1,190	844	179	144	76
28	240	427	260	640	640	1,290	1,430	1,120	779	179	132	97
29	240	379	270	780	------	1,250	1,370	1,090	702	179	132	112
30	230	401	280	900	------	1,380	1,300	1,020	661	166	118	107
31	230	------	280	1,000	------	1,400	------	951	------	160	147	------
TOTAL	8,456	8,324	10,561	8,310	21,620	61,920	51,820	29,203	29,023	7,796	4,427	2,970
MEAN	273	277	341	268	772	1,997	1,727	942	967	251	143	99.0
MAX	360	427	558	1,000	1,100	3,170	2,270	1,290	1,420	579	195	150
MIN	169	206	220	120	620	640	1,300	503	553	141	101	51
CFSM	.37	.38	.47	.37	1.05	2.73	2.36	1.29	1.32	.34	.20	.14
IN.	.43	.42	.54	.42	1.10	3.15	2.63	1.48	1.47	.40	.22	.15

CAL YR 1973 TOTAL 328,788 MEAN 901 MAX 3,400 MIN 70 CFSM 1.23 IN 16.71
WTR YR 1974 TOTAL 244,430 MEAN 670 MAX 3,170 MIN 51 CFSM .92 IN 12.42

PEAK DISCHARGE (BASE, 1,250 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 9	1800	7.92	3,210	5-22	1300	4.73	1,300
4- 7	1700	5.59	1,770	6-14	0500	4.96	1,430
4-18	1800	6.55	2,300				

05427970 WILLOW CREEK AT MADISON, WIS.

LOCATION.--LAT 43°04'27", LONG 89°25'21", IN NW 1/4 NW 1/4 SEC.22, T.7 N., R.9 E., DANE COUNTY, ON LEFT BANK 800 FT (244 M) UPSTREAM FROM OBSERVATORY DRIVE ON THE UNIVERSITY OF WISCONSIN CAMPUS, 200 FT (61 M) DOWNSTREAM FROM STORM SEWER OUTLET AND 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--3.14 MI^2 (8.13 KM^2).

PERIOD OF RECORD.--OCTOBER 1, 1973, TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER, PARSHALL FLUME AND CONCRETE CONTROL. DATUM OF GAGE IS 847.8 FT (258.4 M) ABOVE MEAN SEA LEVEL, UNADJUSTED.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,600 FT^3/S (45.3 M^3/S) AUG. 16, GAGE HEIGHT, 6.22 FT (1.896 M); NO FLOW FOR PART OF FEB. 27 AND MAR. 1.

REMARKS.--RECORDS ARE GOOD EXCEPT THOSE FOR PERIODS OF BACKWATER FROM LAKE MENDOTA AND DISCHARGES BELOW 2.0 FT^3/S (0.06 M^3/S), WHICH ARE FAIR. RECORDS OF CHEMICAL ANALYSES FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY BACKWATER FROM LAKE MENDOTA MAR. 5-21.)

2.52	0	3.0	7.7
2.6	.8	3.2	15
2.7	1.9	3.5	32
2.8	3.2	3.8	60

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	1.2	.92	.80	.93	1.1	.98	.93	1.6	1.6	2.2	1.2
2	3.0	1.3	.91	.80	.83	8.9	1.2	1.2	2.1	1.9	1.8	1.1
3	1.8	1.1	.91	.80	.80	9.6	12	1.8	1.5	1.9	1.2	1.2
4	4.6	1.0	21	.80	.80	12	3.3	.92	1.7	1.6	2.1	1.5
5	1.4	1.2	2.6	.80	.84	2.0	.79	1.0	4.4	1.6	1.2	1.6
6	1.0	1.2	1.1	.78	.91	2.5	.67	.85	2.6	1.5	1.6	1.7
7	2.3	1.2	.95	.74	.91	3.1	.60	5.5	4.0	1.2	1.5	1.7
8	1.0	1.1	.86	.80	.91	1.5	1.2	6.8	1.4	1.9	1.6	1.6
9	2.0	1.1	.80	.91	.82	2.0	.77	.79	50	2.0	1.6	2.3
10	6.2	1.1	.83	.91	.80	.80	4.2	3.0	2.1	12	1.5	1.9
11	1.8	1.0	.90	.83	.88	.70	2.9	7.8	1.4	1.9	4.4	2.0
12	2.4	1.1	.90	.80	1.7	.70	4.1	.76	1.4	1.7	5.6	2.9
13	1.1	1.1	1.0	.73	1.2	.70	10	6.7	1.5	1.7	1.6	1.3
14	1.0	1.8	1.0	.91	.79	.70	29	6.2	3.4	1.6	1.8	1.2
15	1.2	5.4	.95	1.2	.76	2.0	.97	.83	1.4	2.0	2.0	1.3
16	1.2	1.2	.91	9.0	1.4	.90	1.7	38	.83	2.3	35	1.4
17	1.4	1.2	.96	4.0	1.4	.70	.85	1.1	.98	2.5	2.0	1.4
18	1.4	1.4	1.0	2.6	5.8	.70	4.2	3.8	2.3	2.5	1.1	1.5
19	1.5	1.4	.93	1.0	3.3	.70	.86	.74	1.9	2.3	1.0	1.6
20	1.5	2.7	.83	30	4.8	.70	.83	1.0	1.8	1.7	1.0	1.8
21	1.6	2.8	.80	6.5	4.3	.70	2.9	20	8.7	1.5	4.0	1.4
22	1.6	1.1	.80	2.2	1.4	1.4	.77	5.2	1.4	1.9	2.5	1.1
23	1.4	1.0	.80	1.6	.71	.85	.77	1.3	1.2	1.8	2.0	2.6
24	2.1	7.5	2.9	1.0	.68	.80	.78	1.1	1.3	1.7	1.6	1.4
25	1.6	.94	14	1.9	.81	.87	.77	1.0	1.3	14	1.5	1.3
26	1.4	.96	1.3	41	.86	.97	.81	.95	1.5	1.8	3.4	1.5
27	3.8	3.1	1.3	6.0	2.1	1.1	.82	1.0	1.7	1.6	3.4	1.5
28	1.7	1.4	1.2	1.0	3.2	14	6.1	1.4	1.7	1.9	1.5	5.3
29	2.2	1.1	.94	1.6	------	14	4.1	1.6	1.6	1.9	1.8	2.3
30	1.1	1.0	.80	6.8	------	6.5	.90	1.5	1.4	2.0	8.5	1.2
31	1.7	------	.74	1.6	------	.76	------	1.7	------	2.1	3.1	------
TOTAL	65.0	50.70	65.84	130.41	44.64	93.95	99.84	126.47	110.11	79.6	105.1	51.8
MEAN	2.10	1.69	2.12	4.21	1.59	3.03	3.33	4.08	3.67	2.57	3.39	1.73
MAX	7.0	7.5	21	41	5.8	14	29	38	50	14	35	5.3
MIN	1.0	.94	.74	.73	.68	.70	.60	.74	.83	1.2	1.0	1.1

WTR YR 1974 TOTAL 1,023.46 MEAN 2.80 MAX 50 MIN .60

05428000 LAKE MENDOTA AT MADISON, WIS.

LOCATION.--LAT 43°05'42", LONG 89°22'12", IN SE 1/4 SEC.12, T.7 N., R.9 E., DANE COUNTY, ATTACHED TO LEFT WALL OF LOCK OF DAM AT OUTLET, IN MADISON.

DRAINAGE AREA.--233 MI^2 (603 KM^2). AREA OF LAKE MENDOTA, 15.2 MI^2 (39.4 KM^2).

PERIOD OF RECORD.--DECEMBER 1902 TO MAY 1903, JANUARY 1916 TO CURRENT YEAR (INCOMPLETE).

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 847.82 FT (258.416 M) ABOVE MEAN SEA LEVEL, OR 2.22 FT (0.677 M) ABOVE CITY OF MADISON DATUM. PRIOR TO NOV. 15, 1971, NONRECORDING GAGE AT SAME SITE AND DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 2.98 FT (0.908 M) MAR. 9; MINIMUM, 1.00 FT (0.305 M) NOV. 11, 12, 13, 14.
PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 4.19 FT (1.277 M) APR. 5, 1959; MINIMUM OBSERVED, 0.20 FT (0.061 M) FEB. 24 TO MAR. 10, 1920.

REMARKS.--LAKE LEVEL REGULATED BY CONCRETE DAM WITH TWO 12-FOOT TAINTER GATES AND 20-FOOT LOCK AT OUTLET.

REVISIONS.--WRD WIS. 1973: DRAINAGE AREA.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.61	1.31	1.21		2.28	1.97	2.33	1.95	2.10	2.02	1.45	1.50
2	1.64	1.29	1.20		2.30	1.95	2.30	1.90	2.09	1.99	1.43	1.48
3	1.64	1.25	1.22		2.30	2.09	2.30	1.89	2.06	1.98	1.41	1.46
4	1.69	1.23	1.27		2.30	2.45	2.34	1.85	2.04	1.98	1.43	1.42
5	1.67	1.20	1.41		2.30	2.68	2.33	1.83	2.02	1.95	1.40	1.41
6	1.64	1.16	1.42		2.34	2.80	2.29	1.80	2.01	1.91	1.39	1.39
7	1.64	1.12	1.38		2.32	2.85	2.27	1.76	2.02	1.89	1.38	1.38
8	1.63	1.12	1.37		2.30	2.87	2.23	1.80	2.02	1.87	1.38	1.37
9	1.63	1.09	1.42		2.28	2.89	2.19	1.79	2.14	1.85	1.38	1.36
10	1.64	1.04	1.42		2.26	2.90	2.16	1.77	2.32	1.86	1.36	1.35
11	1.66	1.02	1.38		2.23	2.88	2.12	1.77	2.35	1.83	1.38	1.35
12	1.66	1.01	1.38		2.22	2.86	2.13	1.83	2.36	1.79	1.41	1.36
13	1.67	1.02	1.37		2.20	2.82	2.12	1.80	2.35	1.78	1.45	1.36
14	1.64	1.03	1.36		2.16	2.77	2.28	1.86	2.35	1.77	1.43	1.31
15	1.63	1.09	1.36		2.14	2.73	2.35	1.86	2.37	1.73	1.42	1.29
16	1.60	1.09	1.36		2.12	2.72	2.36	1.93	2.34	1.69	1.47	1.28
17	1.55	1.07	1.35		2.09	2.68	2.33	2.05	2.30	1.65	1.54	1.27
18	1.54	1.08	1.35		2.07	2.64	2.31	2.08	2.28	1.61	1.54	1.25
19	1.52	1.08	1.35		2.05	2.61	2.29	2.09	2.28	1.59	1.54	1.25
20	1.50	1.07	1.35		2.04	2.57	2.25	2.10	2.29	1.55	1.52	1.24
21	1.48	1.13	1.34		2.05	2.52	2.23	2.10	2.28	1.50	1.51	1.23
22	1.46	1.14	1.34		2.09	2.48	2.22	2.22	2.27	1.50	1.54	1.20
23	1.45	1.15	1.34		2.08	2.43	2.19	2.26	2.24	1.49	1.53	1.16
24	1.42	1.19	1.34	1.68	2.06	2.38	2.15	2.24	2.21	1.47	1.51	1.16
25	1.41	1.20	1.38	1.69	2.05	2.33	2.11	2.22	2.18	1.51	1.49	1.16
26	1.38	1.20	1.41	1.73	2.02	2.28	2.08	2.19	2.16	1.55	1.50	1.15
27	1.39	1.22	1.44	1.94	2.00	2.24	2.04	2.17	2.14	1.54	1.53	1.14
28	1.40	1.27	1.45	2.08	1.98	2.26	2.00	2.16	2.11	1.53	1.52	1.15
29	1.38	1.22		2.16	------	2.24	2.03	2.16	2.07	1.53	1.51	1.17
30	1.34	1.23		2.20	------	2.31	2.00	2.13	2.06	1.50	1.49	1.16
31	1.34	------		2.23	------	2.33	------	2.13	------	1.47	1.52	------
MEAN	1.54	1.14			2.17	2.53	2.21	1.99	2.19	1.71	1.46	1.29
MAX	1.69	1.31			2.34	2.90	2.36	2.26	2.37	2.02	1.54	1.50
MIN	1.34	1.01			1.98	1.95	2.00	1.76	2.01	1.47	1.36	1.14

05429000 LAKE MONONA AT MADISON, WIS.

LOCATION.--LAT 43°03'48", LONG 89°23'49", IN SW 1/4 SEC.23, T.7 N., R.9 E., DANE COUNTY, AT END OF CONCRETE STORM SEWER IN BRITTINGHAM PARK, IN MADISON.

DRAINAGE AREA.--279 MI^2 (723 KM^2). AREA OF LAKE MONONA, 5.3 MI^2 (13.7 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1915 TO CURRENT YEAR (FRAGMENTARY) IN REPORTS OF THE GEOLOGICAL SURVEY. FOR 1856 TO MARCH 1917 IN REPORTS OF WISCONSIN RAILROAD COMMISSION, VOLUME 19.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 843.61 FT (257.132 M) ABOVE MEAN SEA LEVEL, OR 1.99 FT (0.606 M) BELOW CITY OF MADISON DATUM. PRIOR TO NOV. 15, 1971, NONRECORDING GAGE AT SAME SITE AND DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT, 2.43 FT (0.741 M) APR. 14, 15, 16; MINIMUM, 0.73 FT (0.223 M) JAN. 19, 20.
PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 3.66 FT (1.116 M) JULY 28, 1929; MINIMUM OBSERVED, -0.39 FT (-0.119 M) JAN. 20, 1965.

REMARKS.--LAKE LEVEL REGULATED BY CONCRETE DAM WITH FOUR 12-FOOT STOP-LOG SECTIONS AND 12-FOOT LOCK AT OUTLET OF LAKE WAUBESA.

REVISIONS.--WSP 1338: LAKE AREA. WRD WIS. 1973: DRAINAGE AREA.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.83	1.70	1.18	.91		1.33	2.27	1.99	1.72	2.08		1.29
2	1.88	1.70	1.17	.90		1.32	2.23	1.96	1.72	2.09	1.40	1.28
3	1.90	1.68	1.15	.88		1.46	2.27	1.91	1.72	2.09		1.26
4	2.01	1.67	1.21	.85		1.65	2.37	1.83	1.71	2.10		1.24
5	2.02	1.63	1.25	.84		1.75	2.35	1.76	1.73	2.10	1.26	1.24
6	2.04	1.61	1.23	.82		1.80	2.33	1.68	1.73	2.09		1.24
7	2.06	1.61	1.23	.81		1.83	2.30	1.65	1.76	2.08		1.24
8	2.06	1.59	1.22	.79		1.88	2.23	1.70	1.76	2.07		1.24
9	2.05	1.55	1.20	.79		1.96	2.18	1.64	2.03	2.07	1.23	1.25
10	2.05	1.52	1.14	.78		2.01	2.16	1.61	2.16	2.13	1.22	1.27
11	2.09	1.50	1.15	.78		2.02	2.15	1.63	2.17	2.12	1.21	1.29
12	2.06	1.47	1.15	.77	1.12	2.02	2.17	1.58	2.15	2.09	1.24	1.29
13	2.01	1.45	1.13	.76	1.26	2.02	2.16	1.59	2.15	2.08	1.27	1.27
14	1.96	1.43	1.10	.76	1.26	2.04	2.35	1.63	2.15	2.06	1.29	1.27
15	1.93	1.43	1.08	.75	1.26	2.06	2.42	1.61	2.15	2.02	1.28	1.27
16	1.86	1.40	1.05	.74	1.25	2.09	2.41	1.71	2.10	1.99	1.31	1.28
17	1.82	1.39	1.03	.74	1.24	2.10	2.37	1.81	2.09		1.36	1.28
18	1.80	1.37	1.02	.74	1.24	2.10	2.36	1.82	2.10		1.35	1.28
19	1.77	1.35	1.00	.73	1.24	2.09	2.34	1.81	2.13	1.95	1.34	1.29
20	1.74	1.35	.98	.80	1.25	2.09	2.30	1.79	2.13		1.34	1.29
21	1.73	1.38	.96	.89	1.28	2.06	2.28	1.79	2.18		1.34	1.28
22	1.71	1.35	.95	.93	1.34	2.04	2.23	1.99	2.18	1.85	1.34	1.26
23	1.72	1.32	.93	.95	1.34	2.02	2.15	1.99	2.14		1.31	1.28
24	1.74	1.34	.92	.94	1.34	2.01	2.12	1.96	2.13		1.30	1.29
25	1.72	1.32	.96	.92	1.34	2.01	2.08	1.92	2.12		1.29	1.28
26	1.71	1.31	.97	.94	1.34	2.00	2.06	1.89	2.11	1.74	1.27	1.28
27	1.72	1.27	.98		1.33	1.98	2.03	1.85	2.11		1.31	1.29
28	1.73	1.24	.97		1.32	2.05	2.01	1.82	2.12		1.30	1.30
29	1.72	1.22	.95		------	2.10	2.05	1.80	2.11	1.58	1.28	1.30
30	1.72	1.20	.94		------	2.20	2.01	1.79	2.09		1.27	1.28
31	1.72	------	.92		------	2.25	------	1.75	------		1.31	------
MEAN	1.87	1.45	1.07			1.95	2.22	1.78	2.02			1.27
MAX	2.09	1.70	1.25			2.25	2.42	1.99	2.18			1.30
MIN	1.71	1.20	.92			1.32	2.01	1.58	1.71			1.24

05429040 MANITOU WAY STORM SEWER AT MADISON, WIS.

LOCATION.--LAT 43°02'41", LONG 89°26'24", IN NW 1/4 NW 1/4 SEC.33, T.7 N., R.9 E., DANE COUNTY, AT INLET TO STORM SEWER ON MANITOU WAY NEAR INTERSECTION WITH MANDAN CRESCENT, IN MADISON.

DRAINAGE AREA.--0.22 MI^2 (0.57 KM^2).

PERIOD OF RECORD.--OCTOBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 840 FT (256 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 56 FT^3/S (1.59 M^3/S) OCT. 10, GAGE HEIGHT, 12.76 FT (3.889 M); NO FLOW MANY DAYS DURING THE YEAR.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 66 FT^3/S (1.87 M^3/S) APR. 12, 1971, GAGE HEIGHT, 12.97 FT (3.953 M); NO FLOW MANY DAYS IN 1971-74.

REMARKS.--RECORDS FAIR. DISCHARGE AT MORE FREQUENT INTERVALS IS AVAILABLE IN THE DISTRICT OFFICE. DATA FOR MALLATT STORM SEWER, KNICKERBOCKER STORM SEWER, VAN BUREN STORM SEWER, MARSHLAND CREEK, AND MURPHY CREEK AT BELD STREET ARE AVAILABLE IN THE DISTRICT OFFICE.

REVISIONS.--WRD WIS. 1973: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.11	0	0	0	.06	0	0	0	0	0	0
2	.01	0	0	0	0	.57	0	0	0	0	0	0
3	.14	0	0	0	0	1.4	.45	0	0	0	.02	0
4	.62	0	.96	0	0	.71	.07	0	0	.02	.03	0
5	0	0	.03	0	0	.07	0	.01	.09	0	0	0
6	.05	0	0	0	0	.05	0	0	.06	0	0	0
7	.04	0	0	0	0	.01	0	.28	.09	0	0	0
8	0	0	0	0	0	.17	0	.17	0	0	0	0
9	0	0	0	0	0	.25	0	0	1.7	0	0	0
10	.58	0	0	0	0	0	0	.09	.07	.83	0	0
11	0	0	0	0	0	.06	.07	.17	0	0	.31	0
12	.06	0	0	0	0	.01	.15	0	0	0	.15	.02
13	0	0	0	0	0	.01	.51	.28	0	0	0	0
14	0	.08	0	0	0	0	1.2	.12	.32	0	0	0
15	0	.17	0	0	0	.23	0	0	0	0	0	0
16	0	0	0	.07	0	.03	0	1.1	0	0	.60	0
17	0	0	0	0	.02	0	0	0	0	0	.04	0
18	0	0	0	.08	0	.02	.03	.05	.07	.02	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	.24	0	1.7	0	.01	0	.02	0	0	0	0
21	0	.09	0	.29	.07	0	.03	.86	.23	0	0	0
22	0	0	0	.01	.01	.03	0	0	0	0	0	0
23	0	0	0	.01	0	0	0	0	0	0	0	.01
24	.01	.29	.08	0	0	0	0	0	0	0	0	0
25	0	0	.62	.05	0	0	0	0	0	.70	0	0
26	0	0	0	2.0	.01	0	0	0	0	0	.21	0
27	.22	.10	0	.64	.09	0	0	0	0	0	.25	0
28	.04	0	0	0	.17	.65	.38	0	0	0	0	.02
29	.07	0	0	0	------	.83	.05	0	0	0	0	0
30	0	0	0	.29	------	.25	.03	0	0	0	.46	0
31	.03	------	0	.01	------	0	------	0	------	0	0	------
TOTAL	2.02	1.08	1.69	5.15	.37	5.42	2.97	3.15	2.63	1.57	2.07	.05
MEAN	.065	.036	.055	.17	.013	.17	.099	.10	.088	.051	.067	.002
MAX	.62	.29	.96	2.0	.17	1.4	1.2	1.1	1.7	.83	.60	.02
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	.30	.16	.25	.77	.06	.77	.45	.45	.40	.23	.30	.009
IN.	.34	.18	.29	.87	.06	.92	.50	.53	.44	.27	.35	.008

CAL YR 1973 TOTAL 34.30 MEAN .094 MAX 3.0 MIN 0 CFSM .43 IN 5.80
WTR YR 1974 TOTAL 28.17 MEAN .077 MAX 2.0 MIN 0 CFSM .35 IN 4.76

05429050 NAKOMA STORM SEWER AT MADISON, WIS.

LOCATION.--LAT 43°02'55", LONG 89°26'16", IN SE 1/4 SW 1/4 SEC.28, T.7 N., R.9 E., DANE COUNTY, NEAR THE JUNCTION OF MANITOU WAY AND NAKOMA ROAD, IN THE UNIVERSITY OF WISCONSIN ARBORETUM, IN MADISON.

DRAINAGE AREA.--2.35 MI^2 (6.09 KM^2).

PERIOD OF RECORD.--DECEMBER 1971 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 865 FT (264 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 66 FT^3/S (1.87 M^3/S) MAY 21, GAGE HEIGHT, 12.83 FT (3.911 M); NO FLOW JAN. 9-15, FEB. 8-9.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 188 FT^3/S (5.32 M^3/S) FEB. 23, 1972, GAGE HEIGHT, 14.6 FT (4.45 M); NO FLOW MANY DAYS 1972-74.

REMARKS.--RECORDS FAIR. DISCHARGE AT MORE FREQUENT INTERVALS IS AVAILABLE IN THE DISTRICT OFFICE.

REVISIONS.--WRD WIS. 1973: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.05	.08	.08	.99	1.9	1.1	.18	.31	.02	.02	.41
2	.80	.04	.08	.10	.30	6.5	.59	.18	.55	.02	.01	.15
3	.70	.03	.08	.10	.18	18	3.2	.09	1.4	.02	.03	.09
4	6.4	.02	6.4	.08	.89	11	4.0	.03	1.7	.02	.17	.05
5	1.9	.03	5.1	.06	.52	5.1	1.4	.04	.88	.03	.01	.05
6	.72	.02	2.2	.02	.33	2.0	.36	.03	.46	.04	.01	.07
7	.70	.01	.61	.01	.01	.61	.17	.85	.80	.05	.01	.10
8	.25	.01	.18	.02	0	1.8	.16	2.3	.67	.05	.01	.09
9	.17	.01	.11	0	0	2.7	.15	.70	8.7	.04	.48	.05
10	2.2	.01	.07	0	.02	.82	.14	.57	4.1	3.1	.43	.05
11	1.5	.05	.05	0	.04	.61	.51	3.6	2.3	.74	.07	.07
12	1.2	.02	.05	0	.50	.40	.94	2.0	1.5	2.4	1.3	.22
13	.41	.01	.10	0	.62	.17	1.9	2.0	1.2	1.8	.32	.10
14	.17	.29	.08	0	.04	.15	11	3.8	.87	1.3	.20	.08
15	.13	.89	.08	0	.10	1.4	4.1	1.8	.03	.81	.15	.07
16	.11	.04	.05	.20	.50	1.2	2.3	7.9	.01	.61	7.0	.05
17	.07	.03	.05	.05	.50	.43	1.5	4.6	.01	.33	3.4	.04
18	.05	.03	.05	.22	.80	.24	1.7	3.3	.44	.02	1.5	.04
19	.05	.03	.04	.15	.30	.15	1.1	2.6	.04	.07	.60	.04
20	.04	.90	.04	9.0	.10	.15	.64	1.9	.03	.37	.25	.05
21	.04	1.3	.03	9.0	.62	.11	.73	5.8	1.1	.19	.18	.04
22	.04	.30	.03	5.1	.22	.21	.19	4.1	.04	.14	.14	.05
23	.04	.14	.30	2.1	.10	.14	.09	3.0	.04	.02	.07	.22
24	.04	2.7	2.5	.50	.10	.14	.08	1.5	.05	.01	.05	.09
25	.03	.69	2.3	.60	.05	.14	.08	.72	.05	2.6	.04	.05
26	.03	.26	2.0	13	.22	.16	.09	.92	.05	.15	.51	.03
27	.65	.15	1.2	14	.22	.13	.09	.69	.04	.07	1.1	.03
28	.12	.72	.31	5.6	.94	5.4	1.3	.61	.04	.07	.04	.59
29	.23	.17	.17	2.1	------	5.3	1.1	.28	.04	.02	.04	.18
30	.04	.10	.10	3.8	------	6.8	.51	.19	.04	.02	1.4	.04
31	.12	------	.10	3.7	------	3.8	------	.11	------	.01	1.2	------
TOTAL	20.15	9.05	24.54	69.59	9.21	77.66	41.22	56.39	27.49	15.14	20.74	3.19
MEAN	.65	.30	.79	2.24	.33	2.51	1.37	1.82	.92	.49	.67	.11
MAX	6.4	2.7	6.4	14	.99	18	11	7.9	8.7	3.1	7.0	.59
MIN	.03	.01	.03	0	0	.11	.08	.03	.01	.01	.01	.03
CFSM	.28	.13	.34	.95	.14	1.07	.58	.77	.39	.21	.29	.05
IN.	.32	.14	.39	1.10	.15	1.23	.65	.89	.44	.24	.33	.05

CAL YR 1973 TOTAL 428.70 MEAN 1.17 MAX 26 MIN 0 CFSM .50 IN 6.79
WTR YR 1974 TOTAL 374.37 MEAN 1.03 MAX 18 MIN 0 CFSM .44 IN 5.93

05429118 LAKE WINGRA AT MADISON, WIS.

LOCATION.--LAT 43°03'28", LONG 89°24'22", IN NE 1/4 NE 1/4 SEC.27, T.7 N., R.9 E., DANE COUNTY, ON RIGHT BANK AT OUTLET OF LAKE WINGRA IN MADISON.

DRAINAGE AREA.--6.08 MI^2 (15.7 KM^2).

PERIOD OF RECORD.--APRIL 1970 TO CURRENT YEAR (FRAGMENTARY).

GAGE.--WATER-STAGE RECORDER FROM MAY 25, 1970. DATUM OF GAGE IS 846.8 FT (258.10 M) ABOVE MEAN SEA LEVEL AND 1.2 FT (0.37 M) ABOVE CITY OF MADISON DATUM.

EXTREMES.--MAXIMUM AND MINIMUM GAGE HEIGHTS FOR THE WATER YEARS 1970-74 ARE CONTAINED IN THE FOLLOWING TABLE:

WATER YEAR	DATE	MAXIMUM	DATE	MINIMUM
1970+	SEPT. 24, 1970	1.58	SEPT. 1, 1970	0.47
1971	FEB. 22, 1971	1.75	SEPT. 25, 1971	1.09
1972	MAR. 18, 19, 1972	1.88	OCT. 16, 17, 18, 1971	0.87
1973	MAR. 7, 1973	2.28	AUG. 22, 1973	1.30
1974	MAY 22, 1974	2.06	JULY 22, 23, 1974	1.32

+ PERIOD APRIL TO SEPTEMBER

REMARKS.--LAKE LEVEL REGULATED BY CONCRETE CONTROL STRUCTURE.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.44	1.16	.93	.47
2									1.50	1.16	.91	.48
3									1.43	1.15	.88	.53
4									1.40	1.10	.85	.53
5									1.36	1.08	.84	.52
6								1.16	1.32	1.07	.83	.73
7									1.30	1.06	.81	.89
8									1.27	1.04	.80	.88
9									1.23	1.02	.79	.89
10										1.01	.78	.95
11										1.00	.77	.93
12								1.23		.99	.75	.93
13								1.54		.98	.75	.94
14										1.00	.74	.94
15								1.44	1.21	1.00	.72	1.03
16									1.20	.97	.69	1.07
17									1.20	.95	.67	1.12
18									1.19	.93	.68	1.16
19								1.28	1.15	.97	.66	1.16
20									1.14	.97	.64	1.17
21									1.16	.96	.63	1.18
22							1.34		1.16	.95	.61	1.17
23									1.16	.93	.60	1.21
24									1.15	.92	.59	1.54
25								1.30	1.13	.92	.58	1.52
26								1.27	1.19	.91	.57	1.47
27								1.24	1.19	.90	.56	1.41
28								1.24	1.18	.89	.54	1.34
29					------			1.24	1.17	.92	.52	1.32
30					------		1.24	1.26	1.17	.94	.52	1.29
31		------			------		------	1.30	------	.94	.48	------
MEAN										.99	.70	1.03
MAX										1.16	.93	1.54
MIN										.89	.48	.47

05429118 LAKE WINGRA AT MADISON, WIS.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.27	1.38		1.47	1.43	1.60	1.65	1.55	1.48	1.40	1.28	1.42
2	1.25	1.39		1.47	1.43	1.58	1.61	1.53	1.55	1.37	1.30	1.41
3	1.23	1.41	1.49	1.49	1.46	1.56	1.60	1.52	1.55	1.36	1.29	1.40
4	1.20	1.43	1.46	1.56	1.49	1.56	1.59	1.53	1.55	1.35	1.27	1.38
5	1.18	1.43	1.45	1.52	1.53	1.56	1.57	1.54	1.55	1.35	1.26	
6	1.18	1.44	1.40	1.49	1.51	1.57	1.57	1.51	1.55	1.34	1.26	
7	1.20	1.43	1.41	1.48	1.49	1.56	1.57	1.50	1.53	1.34	1.26	
8	1.22	1.42	1.42	1.47	1.48	1.54	1.56	1.49	1.48	1.49	1.26	
9	1.26	1.45	1.43	1.49	1.47	1.53	1.54	1.49	1.47	1.50	1.26	1.45
10	1.25	1.46	1.45	1.49	1.48	1.53	1.52	1.49	1.46	1.47	1.28	1.47
11	1.24	1.47	1.56	1.48	1.48	1.54	1.54	1.47	1.46	1.44	1.29	1.42
12	1.23	1.46	1.55	1.47	1.47	1.55	1.57	1.44	1.46	1.43	1.27	1.39
13	1.22	1.45	1.55	1.48	1.45	1.56	1.87	1.45	1.45	1.44	1.26	1.36
14	1.21	1.45	1.52	1.48	1.46	1.59	1.87	1.44	1.44	1.41	1.41	1.35
15	1.20	1.44	1.51	1.46	1.47	1.67	1.82	1.45	1.43	1.40	1.41	1.30
16	1.20	1.44	1.53	1.46	1.47	1.68	1.80	1.45	1.42	1.40	1.40	1.26
17	1.20	1.43	1.53	1.46	1.48	1.66	1.79	1.45	1.41	1.39	1.39	1.23
18	1.19	1.43	1.52	1.47	1.49	1.67	1.72	1.46	1.39	1.39	1.39	1.18
19	1.18	1.43	1.50	1.47	1.62	1.74	1.70	1.46	1.38	1.36	1.38	1.20
20	1.18	1.48	1.48	1.47	1.70	1.71	1.69	1.43	1.49	1.35	1.37	1.21
21	1.18	1.49	1.48	1.49	1.71	1.69	1.66	1.42	1.47	1.35	1.37	1.19
22	1.18	1.51	1.49	1.49	1.73	1.66	1.64	1.42	1.46	1.34	1.37	1.17
23	1.18	1.48	1.48	1.48	1.72	1.63	1.61	1.42	1.53	1.34	1.43	1.15
24	1.19		1.45	1.48	1.68	1.61	1.57	1.50	1.51	1.34	1.46	1.11
25	1.20		1.45	1.48	1.66	1.59	1.56	1.49	1.55	1.34	1.49	1.10
26	1.22		1.45	1.45	1.64	1.58	1.54	1.46	1.53	1.34	1.47	1.12
27	1.27		1.44	1.43	1.63	1.59	1.54	1.45	1.53	1.31	1.45	1.20
28	1.33		1.45	1.44	1.61	1.61	1.58	1.46	1.52	1.30	1.44	1.22
29	1.38		1.45	1.46	------	1.61	1.57	1.47	1.48	1.29	1.44	1.18
30	1.39		1.46	1.45	------	1.62	1.57	1.48	1.45	1.28	1.43	1.18
31	1.39	------	1.46	1.43	------	1.64	------	1.46	------	1.27	1.42	------
MEAN	1.23			1.47	1.54	1.61	1.63	1.47	1.48	1.37	1.36	
MAX	1.39			1.56	1.73	1.74	1.87	1.55	1.55	1.50	1.49	
MIN	1.18			1.43	1.43	1.53	1.52	1.42	1.38	1.27	1.26	

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.18	.97	1.49	1.60	1.54	1.48	1.61	1.66	1.37	1.13	1.19	1.62
2	1.15	1.25		1.58	1.55	1.48	1.59	1.69	1.37	1.12	1.27	1.57
3	1.15	1.39	1.48	1.56	1.56	1.49	1.58	1.69	1.37	1.10	1.28	1.54
4	1.11	1.40	1.48	1.54	1.54	1.51	1.57	1.66	1.35	1.08	1.27	1.52
5	1.08	1.41	1.48	1.54	1.53	1.50	1.58	1.63	1.34	1.06	1.26	1.50
6	1.06	1.38	1.50	1.53	1.53	1.49	1.58	1.65	1.35	1.05	1.26	1.49
7	1.04	1.35	1.51	1.53	1.52	1.50	1.60	1.65	1.35	1.04	1.26	1.48
8	1.03	1.34	1.51	1.53	1.50	1.50	1.60	1.62	1.36	1.04	1.25	1.46
9	1.00	1.34	1.51	1.53	1.49	1.49	1.60	1.60	1.33	1.04	1.23	1.45
10	.98	1.35	1.57	1.53	1.49	1.49	1.61	1.60	1.30	1.04	1.22	1.43
11	.95	1.36	1.60		1.49	1.50	1.62	1.59	1.29	1.02	1.33	1.45
12	.92	1.38	1.60	1.58	1.48	1.54	1.62	1.58	1.30	1.02	1.40	1.47
13	.91	1.38	1.58	1.57	1.49	1.58	1.63	1.58	1.31	1.02	1.41	1.56
14	.91	1.41		1.54	1.49	1.60	1.62	1.64	1.35	1.01		1.56
15	.89	1.42		1.51	1.48	1.62	1.65	1.65	1.34	1.03	1.50	1.54
16	.87	1.41	1.85	1.51	1.47	1.66	1.67	1.64	1.31	1.02	1.52	1.53
17	.87	1.43	1.79	1.51	1.48	1.76	1.67	1.62	1.28	1.03	1.53	1.52
18	.87	1.48	1.74	1.53	1.49	1.87	1.65	1.60	1.27	1.12	1.51	1.51
19	.88	1.49	1.72	1.55	1.48	1.88	1.60	1.57	1.28	1.15	1.52	1.53
20	.90	1.48	1.67	1.55	1.46	1.87	1.60	1.57	1.28	1.19	1.55	1.57
21	.91	1.45	1.63	1.55	1.46	1.86	1.62	1.53	1.25	1.19	1.55	1.63
22		1.43	1.59	1.56	1.46	1.84	1.80	1.50	1.23	1.19	1.53	1.60
23		1.43	1.59	1.56	1.46	1.78	1.77	1.48	1.21	1.20	1.51	1.58
24		1.44	1.58	1.57	1.46	1.72	1.73	1.46	1.19	1.20	1.57	1.57
25		1.44	1.56	1.55	1.45	1.69	1.69	1.44	1.18	1.19	1.62	1.62
26			1.56	1.53	1.47	1.65	1.66	1.42	1.18	1.19	1.96	1.71
27			1.55	1.52	1.47	1.62	1.64	1.40	1.18	1.19	1.91	1.69
28	.90		1.53	1.52	1.48	1.61	1.63	1.40	1.16	1.18	1.83	1.68
29	.90		1.53	1.53	1.48	1.64	1.62	1.40	1.16	1.18	1.76	1.63
30	.94		1.58	1.53	------	1.65	1.61	1.39	1.16	1.18	1.71	1.60
31	.94	------	1.60	1.53	------	1.63	------	1.36	------	1.17	1.66	------
MEAN					1.49	1.63	1.63	1.56	1.28	1.11		1.55
MAX					1.56	1.88	1.80	1.69	1.37	1.20		1.71
MIN					1.45	1.48	1.57	1.36	1.16	1.01		1.43

05429118 LAKE WINGRA AT MADISON, WIS.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.57	1.52	1.41	1.59		1.53	1.60	1.84	1.65	1.39	1.33	1.41
2	1.55	1.58	1.41	1.57		1.62	1.70	1.98	1.63	1.39	1.32	1.42
3	1.54	1.57	1.42	1.55		1.66	1.73	1.96	1.62	1.40	1.32	1.47
4	1.52	1.56	1.41			1.67	1.71	1.88	1.61	1.41	1.32	1.50
5	1.50	1.54	1.41		1.76	1.66	1.70	1.82	1.60	1.43	1.32	1.49
6	1.50	1.53	1.42		1.72	1.66	1.67	1.81	1.57	1.43	1.32	1.47
7	1.49	1.53	1.41		1.68	2.20	1.63	1.81	1.55	1.43	1.31	1.43
8	1.48	1.52	1.42		1.63	2.17	1.61	1.93	1.54	1.43	1.34	1.42
9	1.44	1.51	1.41		1.60	2.07	1.63	1.94	1.52	1.42	1.35	1.43
10	1.43	1.50	1.41		1.58	2.00	1.68	1.88	1.51	1.44	1.36	1.44
11	1.45	1.51	1.42	1.46	1.57	2.02	1.68	1.81	1.50	1.42	1.34	1.43
12	1.46	1.50	1.46		1.55	1.99	1.68	1.76	1.50	1.40	1.33	1.42
13	1.46	1.47	1.49		1.55	1.92	1.69	1.70	1.50	1.40	1.33	1.41
14	1.45	1.46	1.48		1.56	1.98	1.71	1.66	1.50	1.37	1.32	1.41
15	1.42	1.43	1.48		1.55	1.95	1.73	1.64	1.49	1.36	1.32	1.39
16	1.43	1.44	1.47		1.53	1.87	1.81	1.60	1.49	1.35	1.32	1.39
17	1.40	1.44	1.46		1.51	1.81	1.76	1.56	1.50	1.34	1.32	1.43
18	1.37	1.43	1.47		1.51	1.78	1.76	1.55	1.50	1.34	1.32	1.48
19	1.36	1.44	1.48		1.51	1.73	1.76	1.58	1.50	1.33	1.32	
20	1.35	1.44	1.49		1.52	1.68	1.76	1.59	1.49	1.32	1.32	
21	1.41	1.41	1.49		1.52	1.65	1.92	1.57	1.47	1.31	1.31	
22	1.51	1.41	1.49		1.52	1.63	1.96	1.57	1.46	1.32	1.30	
23	1.67	1.40	1.49	1.65	1.52	1.62	1.88	1.57	1.45	1.34	1.36	
24	1.67	1.40	1.49		1.51	1.60	1.81	1.58	1.45	1.37	1.40	
25	1.65	1.40	1.50		1.51	1.58	1.78	1.65	1.45	1.38	1.41	
26	1.63	1.40	1.50		1.50	1.56	1.74	1.64	1.45	1.39	1.42	1.55
27	1.60	1.39	1.50		1.50	1.54	1.69	1.65	1.43	1.40	1.43	
28	1.57	1.45	1.48		1.50	1.53	1.66	1.76	1.43	1.37	1.43	
29	1.55	1.40	1.46		------	1.54	1.64	1.73	1.41	1.36	1.43	
30		1.40	1.57	1.54	------	1.54	1.72	1.71	1.40	1.36	1.40	
31		------	1.60		------	1.52	------	1.68	------	1.34	1.41	------
MEAN		1.47	1.46			1.75	1.73	1.72	1.51	1.38	1.35	
MAX		1.58	1.60			2.20	1.96	1.98	1.65	1.44	1.43	
MIN		1.39	1.41			1.52	1.60	1.55	1.40	1.31	1.30	

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		1.53	1.52	1.54		1.60	1.76	1.61	1.60	1.43	1.39	1.44
2		1.52	1.52	1.53		1.62	1.75	1.60	1.60	1.42	1.39	1.43
3		1.50	1.52	1.53		1.78	1.72	1.59	1.59	1.42	1.39	1.42
4	1.70	1.48	1.58	1.53		1.92	1.79	1.57	1.60	1.41	1.39	1.41
5		1.47	1.72	1.53		1.94	1.77	1.56		1.40	1.38	1.41
6		1.46	1.70	1.53		1.90	1.74	1.54		1.40	1.38	1.41
7		1.46	1.66	1.52			1.69	1.53	1.57	1.38	1.38	1.41
8		1.46	1.63	1.53	1.62		1.65	1.57	1.55	1.37	1.38	1.40
9		1.44	1.61	1.52			1.64	1.55	1.65	1.36	1.38	1.40
10	1.58	1.44	1.57	1.52			1.62	1.58	1.81	1.41	1.38	1.40
11	1.68	1.44	1.55	1.52			1.62	1.67	1.76	1.42	1.41	1.39
12	1.65	1.45	1.55	1.52	1.59		1.68	1.67	1.69	1.40	1.43	
13	1.62	1.46		1.51			1.67	1.65	1.67	1.42	1.44	
14	1.59	1.47		1.52		1.68	1.77	1.72	1.67	1.44	1.44	
15	1.57	1.49		1.53		1.68	1.92	1.70	1.64	1.46		
16	1.53	1.50		1.53		1.69	1.86	1.76	1.60	1.40		
17	1.50	1.50		1.52		1.68	1.82	1.88	1.59	1.40		
18	1.48	1.51		1.52		1.66	1.76	1.83	1.59	1.39		
19	1.48	1.51		1.52		1.64	1.73	1.81	1.58	1.38		
20	1.47	1.51	1.52	1.62		1.62	1.72	1.78	1.59	1.35	1.48	1.38
21	1.47	1.57	1.52	1.76	1.61	1.60	1.72	1.75	1.60	1.34	1.47	1.37
22	1.47	1.56	1.52	1.77	1.64	1.59	1.68	1.96	1.58	1.32	1.46	1.33
23	1.47	1.55	1.52	1.76	1.64	1.57	1.63	1.98	1.54	1.32	1.44	1.33
24	1.47	1.60	1.53	1.72	1.63	1.55	1.63	1.87	1.52	1.33	1.43	1.35
25	1.48	1.59	1.57		1.62	1.54	1.62	1.79	1.50	1.42	1.42	1.36
26	1.46	1.58	1.61		1.60	1.54	1.61	1.73	1.49	1.52	1.42	1.37
27	1.46	1.58	1.62		1.60	1.54	1.61	1.68	1.49	1.50	1.43	1.38
28	1.48	1.57	1.61		1.60	1.59	1.60	1.66	1.48	1.46	1.44	1.38
29	1.48	1.55	1.61		------	1.65	1.64	1.66	1.45	1.44	1.44	1.39
30	1.48	1.54	1.57	1.84	------	1.78	1.62	1.65	1.44	1.40	1.43	1.38
31	1.52	------	1.55		------	1.79	------	1.62	------	1.36	1.46	------
MEAN		1.51					1.70	1.69		1.40		
MAX		1.60					1.92	1.98		1.52		
MIN		1.44					1.60	1.53		1.32		

05429120 LAKE WINGRA OUTLET AT MADISON, WIS.

LOCATION.--LAT 43°03'28", LONG 89°24'22", IN NE 1/4 NE 1/4 SEC.27, T.7 N., R.9 E., DANE COUNTY, AT OUTLET OF LAKE WINGRA IN MADISON.

DRAINAGE AREA.--6.08 MI^2 (15.7 KM^2).

PERIOD OF RECORD.--DECEMBER 1970 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND SHARP-CRESTED WEIR. DATUM OF GAGE IS 846.58 FT (258.038 M), REVISED, ABOVE MEAN SEA LEVEL AND 0.98 FT (0.299 M), REVISED, ABDVE CITY OF MADISDN DATUM.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 26 FT^3/S (0.74 M^3/S) MAY 22, GAGE HEIGHT, 1.42 FT (0.433 M); NO FLDW JULY 7-9, 19-24, JULY 31 TO AUG. 10, SEPT. 17-22, 26-27, 30.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 40 FT^3/S (1.13 M^3/S) MAR. 7, 1973, GAGE HEIGHT, 1.62 FT (0.494 M) OBSERVED READING; ND FLDW MANY DAYS IN 1971-74.

REMARKS.--RECORDS FAIR. WATER FROM LAKE WINGRA LAGOONS BYPASSES GAGE THROUGH A 30-INCH STORM SEWER.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTDBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	3.3	3.8	3.8	12	4.8	12	6.4	5.5	.52	0	.65
2	7.8	2.9	4.1	3.6	11	5.5	11	6.0	4.8	.44	0	.44
3	8.8	2.3	3.9	3.8	9.6	12	11	5.7	4.8	.25	0	.20
4	9.9	1.9	4.9	3.6	7.8	17	14	4.9	4.8	.18	0	.10
5	9.2	1.8	9.1	3.5	7.8	18	13	4.6	4.4	.13	0	.10
6	8.2	1.8	8.9	3.6	8.2	16	11	3.9	4.4	.02	0	.10
7	7.0	1.9	7.5	3.5	8.2	14	8.9	3.6	4.9	0	0	.10
8	6.2	2.1	6.9	3.2	6.4	13	8.0	4.9	4.3	0	0	.02
9	5.7	1.6	6.2	3.6	5.8	12	7.5	4.3	8.0	0	0	.02
10	5.5	1.2	5.1	3.5	5.7	12	6.6	5.3	15	.09	0	.02
11	7.5	1.4	4.4	3.6	4.9	10	6.0	8.9	13	.20	.08	.01
12	8.0	1.6	4.3	3.2	4.9	9.0	8.0	8.9	9.9	.20	.20	.20
13	6.6	1.9	4.1	3.1	4.6	7.6	11	8.0	8.9	.20	.44	.10
14	5.7	1.9	3.8	3.3	3.8	7.3	18	11	8.9	.20	.44	.06
15	4.6	3.2	3.6	3.3	3.5	7.5	21	10	7.8	.10	.20	.02
16	3.6	3.3	3.3	3.3	3.6	9.9	18	13	6.0	.02	3.2	.01
17	2.9	3.2	3.2	3.1	3.5	9.4	15	19	5.7	.02	3.2	0
18	2.4	3.3	3.2	2.8	3.6	8.4	13	16	5.7	.01	2.4	0
19	2.6	3.1	3.2	2.8	3.9	7.8	12	15	5.7	0	1.9	0
20	2.0	3.1	2.9	7.1	4.3	6.9	11	13	5.7	0	1.6	0
21	1.9	5.3	2.9	11	5.3	6.0	11	14	6.6	0	1.2	0
22	1.9	4.8	2.9	12	6.6	5.8	9.4	24	5.7	0	.85	0
23	2.0	1.9	2.9	12	6.4	4.9	7.3	20	4.4	0	.60	.10
24	2.3	5.9	3.3	9.9	5.7	4.3	7.3	15	3.2	0	.44	.04
25	2.3	5.9	5.1	9.1	5.1	3.9	6.9	13	2.4	.20	.20	.02
26	1.8	5.5	6.0	8.2	4.8	3.9	6.4	11	2.0	3.2	.20	0
27	2.4	5.5	6.2	20	4.8	3.9	6.4	10	1.8	2.0	.44	0
28	2.9	5.5	5.8	20	4.8	5.8	6.0	10	1.6	1.0	.65	.20
29	2.9	4.8	5.5	17	------	7.9	7.8	8.9	1.4	.60	.60	.02
30	3.1	4.3	4.8	16	------	13	7.3	7.5	.95	.02	.44	0
31	3.5	------	4.3	12	------	13	------	7.1	------	0	1.2	------
TOTAL	147.7	96.2	146.1	218.5	166.6	280.5	311.8	312.9	168.25	9.60	20.48	2.53
MEAN	4.76	3.21	4.71	7.05	5.95	9.05	10.4	10.1	5.61	.31	.66	.084
MAX	9.9	5.9	9.1	20	12	18	21	24	15	3.2	3.2	.65
MIN	1.8	1.2	2.9	2.8	3.5	3.9	6.0	3.6	.95	0	0	0

CAL YR 1973 TOTAL 1,811.69 MEAN 4.96 MAX 33 MIN 0
WTR YR 1974 TOTAL 1,881.16 MEAN 5.15 MAX 24 MIN 0

05429500 YAHARA RIVER NEAR MCFARLAND, WIS.

LOCATION.--LAT 43°00'32", LONG 89°18'18", IN SW 1/4 SEC.3, T.6 N., R.10 E., DANE COUNTY, ON LEFT BANK JUST UPSTREAM FROM BRIDGE ON U.S. HIGHWAY 51, AT DAM AT OUTLET OF LAKE WAUBESA AND 1.0 MI (1.6 KM) SOUTHWEST OF MCFARLANO.

DRAINAGE AREA.--327 MI^2 (847 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1930 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 840.00 FT (256.032 M) ABOVE MEAN SEA LEVEL (LEVELS BY WISCONSIN DEPARTMENT OF NATURAL RESOURCES). PRIOR TO DEC. 23, 1934, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--44 YEARS, 150 FT^3/S (4.248 M^3/S), 6.23 IN/YR (158 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 537 FT^3/S (15.2 M^3/S) APR. 15, GAGE HEIGHT, 5.15 FT (1.570 M); MAXIMUM GAGE HEIGHT, 5.21 FT (1.588 M) JUNE 10, BACKWATER FROM AQUATIC VEGETATION; MINIMUM DAILY DISCHARGE, 49 FT^3/S (1.39 M^3/S) SEPT. 30.

PERIOD OF RECORD: MAXIMUM DISCHARGE, 867 FT^3/S (24.6 M^3/S) APR. 10, 1959, GAGE HEIGHT, 5.82 FT (1.774 M); MAXIMUM GAGE HEIGHT, 6.33 FT (1.929 M) JULY 23, 24, 1950, BACKWATER FROM AQUATIC VEGETATION; MINIMUM DISCHARGE, 1.0 FT^3/S (0.028 M^3/S) OCT. 18, 1964.

REMARKS.--RECORDS FAIR. FLOW REGULATED BY DAMS AT OUTLETS OF LAKE MENDOTA AND LAKE WAUBESA. THE MADISON METROPOLITAN SEWERAGE DISTRICT DIVERTED AN AVERAGE OF 33.87 MGD (1.48 M^3/S) OF EFFLUENT INTO THE BADFISH CREEK BASIN DURING 1974. PRIOR TO 1958 THE EFFLUENT WAS DISCHARGED INTO THE YAHARA RIVER ABOVE MCFARLAND.

REVISIONS.--WSP 805, WRD WIS. 1971, 1973: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	212	168	140	278	275	485	435	278	242	198	80
2	163	212	161	140	285	278	480	425	268	238	188	78
3	163	210	161	140	282	318	485	417	252	242	179	74
4	200	210	174	140	278	360	512	407	238	248	174	74
5	203	210	196	140	268	376	514	391	222	248	154	72
6	205	205	196	140	278	381	509	376	212	245	95	72
7	205	200	191	136	272	383	498	360	208	245	94	70
8	200	203	181	136	268	389	487	360	203	245	90	70
9	200	203	179	140	268	407	474	352	255	248	90	70
10	196	193	122	140	260	417	461	345	290	260	90	70
11	200	186	163	145	260	420	456	368	280	262	92	68
12	203	179	172	149	260	425	461	345	268	262	96	64
13	203	179	172	149	260	425	461	342	250	265	98	64
14	198	177	168	149	262	425	512	348	232	262	98	64
15	198	184	165	147	260	428	537	342	240	260	100	61
16	198	186	163	147	260	433	534	355	238	258	110	62
17	186	179	161	149	258	441	523	378	230	252	120	61
18	184	174	154	149	255	441	517	381	230	248	120	59
19	179	174	154	152	255	438	509	381	235	248	110	59
20	174	172	149	165	258	435	501	376	235	242	110	57
21	174	177	147	193	262	433	487	378	248	240	110	57
22	170	177	142	203	282	433	487	417	248	235	110	54
23	168	179	140	210	285	428	482	430	248	230	100	53
24	170	186	140	208	285	425	472	417	245	222	98	53
25	172	188	149	205	282	415	456	402	242	230	96	50
26	179	184	154	210	278	412	448	381	245	240	94	53
27	188	181	156	270	275	409	438	358	248	235	92	53
28	200	188	154	278	275	430	433	338	245	230	90	52
29	205	181	154	275	------	446	446	325	245	225	88	53
30	205	170	154	272	------	474	446	308	245	218	84	49
31	210	------	149	280	------	485	------	292	------	208	82	------
TOTAL	5,855	5,659	4,989	5,497	7,549	12,685	14,511	11,530	7,323	7,533	3,450	1,876
MEAN	189	189	161	177	270	409	484	372	244	243	111	62.5
MAX	210	212	196	280	285	485	537	435	290	265	198	80
MIN	156	170	122	136	255	275	433	292	203	208	82	49
CFSM	.58	.58	.49	.54	.83	1.25	1.48	1.14	.75	.74	.34	.19
IN.	.67	.64	.57	.63	.86	1.44	1.65	1.31	.83	.86	.39	.21

CAL YR 1973 TOTAL 94,112 MEAN 258 MAX 542 MIN 120 CFSM .79 IN 10.71
WTR YR 1974 TOTAL 88,457 MEAN 242 MAX 537 MIN 49 CFSM .74 IN 10.06

05430500 ROCK RIVER AT AFTON, WIS.

LOCATION.--LAT 42°36'33", LONG 89°04'14", IN NE 1/4 SEC.28, T.2 N., R.12 E., ROCK COUNTY, ON RIGHT BANK IN AFTON, 0.3 MI (0.5 KM) DOWNSTREAM FROM HIGHWAY BRIDGE AND 1.1 MI (1.8 KM) UPSTREAM FROM BASS CREEK.

DRAINAGE AREA.--3,331 MI^2 (8,627 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR JANUARY 1914, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 742.36 FT (226.271 M) ABOVE MEAN SEA LEVEL. PRIOR TO AUG. 21, 1932, A NONRECORDING GAGE, AND AUG. 21, 1932, TO SEPT. 30, 1933, WATER-STAGE RECORDER, AT SAME SITE AT DATUM 1 FT (0.30 M) HIGHER.

AVERAGE DISCHARGE.--60 YEARS, 1,746 FT^3/S (49.45 M^3/S), 7.12 IN/YR (181 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 8,180 FT^3/S (232 M^3/S) MAR. 12, GAGE HEIGHT, 9.88 FT (3.011 M); MINIMUM DAILY, 547 FT^3/S (15.49 M^3/S) SEPT. 13.
PERIOD OF RECORD: MAXIUMUM DISCHARGE, 13,000 FT^3/S (368 M^3/S) MAR. 23, 24, 1929, GAGE HEIGHT, 11.81 FT (3.600 M) PRESENT DATUM; MAXIMUM GAGE HEIGHT OBSERVED, 13.05 FT (3.978 M) FEB. 5, 1916, PRESENT DATUM (BACKWATER FROM ICE); MINIMUM DISCHARGE, 22 FT^3/S (0.62 M^3/S) SEPT. 9, 1964; MINIMUM DAILY, 42 FT^3/S (1.189 M^3/S) AUG. 25, 26, 1934; MINIMUM GAGE HEIGHT, 0.09 FT (0.027 M) AUG. 26, 1934.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. DIURNAL FLUCTUATION CAUSED BY POWERPLANTS ABOVE STATION. RECORDS OF WATER TEMPERATURE FOR THE CURRENT YEAR ARE PUBLISHED IN PART 2 OF THIS REPORT.

REVISIONS (WATER YEARS).--WSP 1238: 1916(M), 1919(M), 1933, 1937-38, 1943. WRD WIS. 1971: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 12, 13, 17, 18, DEC. 31 TO JAN. 28, JAN. 31 TO MAR. 1.)

2.7	541	6.0	3,160
3.0	740	8.0	5,480
4.0	1,440	10.0	8,360

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,710	1,620	1,950	2,700	2,900	2,300	6,530	6,250	4,690	3,120	1,360	1,710
2	1,780	1,650	1,890	2,200	3,000	2,580	6,420	6,040	4,510	2,940	1,040	1,660
3	2,030	1,700	1,790	2,000	3,000	3,660	6,580	5,790	4,310	2,930	1,140	1,600
4	2,520	1,730	2,100	1,900	2,900	4,550	7,060	5,560	4,020	2,950	1,280	1,680
5	2,350	1,730	2,340	1,700	2,800	4,610	7,060	5,350	3,910	2,940	1,570	1,560
6	2,050	1,690	2,270	1,600	2,700	5,170	6,940	5,230	3,790	2,800	1,290	1,360
7	2,130	1,720	2,290	1,500	2,600	6,000	6,950	4,910	3,660	2,660	1,280	780
8	2,130	1,680	2,300	1,400	2,500	6,700	7,100	4,930	3,550	2,520	1,260	860
9	2,220	1,620	2,340	1,400	2,400	7,380	6,710	4,840	3,900	2,430	1,170	936
10	2,270	1,620	2,270	1,300	2,400	7,860	6,560	4,570	4,350	2,470	1,010	866
11	2,360	1,600	2,160	1,300	2,300	7,920	6,460	4,730	4,070	2,550	1,190	810
12	2,260	1,550	2,200	1,300	2,200	8,140	6,390	4,450	4,110	2,440	1,170	866
13	2,270	1,570	2,200	1,300	2,200	8,150	6,140	4,440	4,290	2,330	1,240	547
14	2,190	1,590	2,250	1,300	2,200	8,060	7,130	4,620	4,400	2,270	1,210	985
15	2,260	1,760	2,300	1,300	2,100	8,160	7,420	4,450	4,500	2,230	1,290	754
16	2,150	1,700	2,290	1,300	2,100	7,970	7,340	4,690	4,380	2,020	1,320	915
17	1,920	1,640	2,200	1,300	2,100	7,900	7,560	5,580	4,230	1,420	1,570	775
18	1,840	1,600	2,200	1,300	2,100	7,730	7,760	5,570	4,170	1,360	1,410	901
19	1,870	1,600	2,140	1,300	2,100	7,640	7,960	5,640	4,110	1,520	1,380	908
20	2,030	1,630	2,090	1,300	2,100	7,490	7,820	5,650	4,320	1,520	1,390	873
21	2,020	1,720	2,100	1,300	2,100	7,310	7,680	5,680	6,080	1,450	1,340	845
22	1,960	1,550	2,260	1,300	2,100	7,040	7,540	6,050	4,860	1,550	1,350	817
23	1,890	1,650	2,150	1,400	2,100	6,890	7,490	6,090	4,250	1,430	1,430	1,010
24	1,840	1,870	2,130	1,400	2,100	6,650	7,420	5,770	3,970	1,390	1,440	754
25	1,710	1,850	1,950	1,500	2,100	6,400	7,180	5,740	3,840	1,400	1,410	685
26	1,700	1,860	1,910	1,700	2,100	6,190	7,020	5,640	3,740	1,480	1,330	664
27	1,720	1,870	1,880	1,900	2,100	6,110	6,820	5,490	3,690	1,480	1,380	775
28	1,750	1,890	1,870	2,100	2,200	6,040	6,540	5,280	3,530	1,450	1,500	605
29	1,840	1,840	1,930	2,490	------	6,010	6,740	5,220	3,370	1,500	1,970	852
30	1,770	1,850	1,860	2,610	------	6,300	6,500	5,120	3,230	1,500	1,860	789
31	1,700	------	2,600	2,800	------	6,390	------	4,930	------	1,380	1,740	------
TOTAL	62,240	50,950	66,210	51,200	65,600	201,300	210,820	164,300	123,830	63,430	42,320	29,142
MEAN	2,008	1,698	2,136	1,652	2,343	6,494	7,027	5,300	4,128	2,046	1,365	971
MAX	2,520	1,890	2,600	2,800	3,000	8,160	7,960	6,250	6,080	3,120	1,970	1,710
MIN	1,700	1,550	1,790	1,300	2,100	2,300	6,140	4,440	3,230	1,360	1,010	547
CFSM	.60	.51	.64	.50	.70	1.95	2.11	1.59	1.24	.61	.41	.29
IN.	.70	.57	.74	.57	.73	2.25	2.35	1.83	1.38	.71	.47	.33

CAL YR 1973 TOTAL 1,255,151 MEAN 3,439 MAX 9,560 MIN 754 CFSM 1.03 IN 14.02
WTR YR 1974 TOTAL 1,131,342 MEAN 3,100 MAX 8,160 MIN 547 CFSM .93 IN 12.63

05431500 TURTLE CREEK NEAR CLINTON, WIS.

LOCATION.--LAT 42°35'47", LONG 88°51'50", IN SE 1/4 SEC.29, T.2 N., R.14 E., ROCK COUNTY, ON LEFT BANK 15 FT (5 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 140, 2.7 MI (4.3 KM) NORTH OF CLINTON, 11 MI (18 KM) NORTHEAST OF BELOIT, AND 16 MI (26 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--202 MI^2 (523 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 817.00 FT (249.022 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS).

AVERAGE DISCHARGE.--35 YEARS, 115 FT^3/S (3.257 M^3/S), 8.40 IN/YR (213 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,840 FT^3/S (80.4 M^3/S) OCT. 2, GAGE HEIGHT, 7.99 FT (2.435 M); MINIMUM, 106 FT^3/S (3.00 M^3/S) SEPT. 23, GAGE HEIGHT, 3.27 FT (0.997 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 16,500 FT^3/S (467 M^3/S) APR. 21, 1973, GAGE HEIGHT, 12.85 FT (3.971 M) FROM RATING CURVE EXTENDED ABOVE 6,500 FT^3/S (184 M^3/S) ON BASIS OF SLOPE-AREA MEASUREMENT OF PEAK FLOW; MINIMUM DISCHARGE, 8 FT^3/S (0.23 M^3/S) DEC. 29, 1956, GAGE HEIGHT, 2.04 FT (0.622 M), RESULT OF FREEZEUP.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. SOME SEASONAL REGULATION CAUSED BY DAMS USED TO MAINTAIN LEVELS OF TURTLE AND DELAVAN LAKES.

REVISIONS (WATER YEARS).--WSP 955: 1940. WSP 1308: 1950(M). WRD WIS. 1971: DRAINAGE AREA.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND.)
(STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9-12, 14-23, DEC. 30 TO JAN. 20, FEB. 2-14.)

OCT. 1

5.0	560
6.0	1,000

OCT. 2 TO SEPT. 30

3.2	92	6.0	1,240
3.6	179	7.0	1,920
4.0	308	8.0	2,850
5.0	710		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	266	222	240	504	361	349	276	345	167	132	124
2	1,970	235	219	220	410	413	326	238	326	169	132	124
3	684	216	216	230	350	1,630	319	219	312	167	132	122
4	552	205	311	190	300	1,700	421	212	297	185	134	120
5	472	196	733	190	260	1,160	389	212	248	177	132	116
6	396	188	472	190	230	825	369	209	225	167	128	116
7	286	188	353	190	220	732	355	203	198	162	128	114
8	242	185	304	190	210	769	353	334	279	159	126	114
9	219	167	270	190	200	773	323	326	601	157	122	112
10	207	164	250	190	200	674	297	349	529	185	130	112
11	232	169	230	190	200	609	272	665	453	180	164	114
12	210	174	210	190	200	569	241	593	417	167	174	112
13	216	177	199	200	200	521	290	445	373	157	174	116
14	202	188	200	200	190	481	653	485	365	150	180	120
15	182	368	200	200	191	465	525	405	433	152	177	130
16	159	345	199	200	182	461	417	657	330	172	167	132
17	145	252	200	200	180	445	365	755	294	174	242	132
18	150	225	200	220	185	425	308	557	225	169	152	132
19	143	213	200	280	229	405	301	541	209	167	139	130
20	150	207	200	400	248	373	290	465	301	155	132	116
21	177	308	210	480	290	357	276	361	831	145	128	114
22	180	269	230	417	294	330	265	1,380	376	272	124	108
23	185	238	250	360	396	269	245	683	290	252	122	112
24	182	408	272	319	308	232	238	381	242	245	122	128
25	177	353	311	290	283	216	222	319	205	188	118	130
26	180	294	349	311	248	219	193	286	193	167	116	128
27	191	272	341	797	248	219	203	265	188	150	141	127
28	219	276	311	663	304	238	201	272	174	145	134	128
29	248	255	290	529	------	304	645	389	169	139	134	147
30	242	235	270	476	------	476	361	361	169	136	130	130
31	245	------	250	629	------	429	------	357	------	132	132	------
TOTAL	9,677	7,236	8,472	9,571	7,260	17,080	10,012	13,200	9,597	5,309	4,398	3,660
MEAN	312	241	273	309	259	551	334	426	320	171	142	122
MAX	1,970	408	733	797	504	1,700	653	1,380	831	272	242	147
MIN	143	164	199	190	180	216	193	203	169	132	116	108
CFSM	1.68	1.30	1.47	1.66	1.39	2.96	1.80	2.29	1.72	.92	.76	.66
IN.	1.94	1.45	1.69	1.91	1.45	3.42	2.00	2.64	1.92	1.06	.88	.73

CAL YR 1973 TOTAL 109,967 MEAN 301 MAX 6,400 MIN 94 CFSM 1.62 IN 21.99
WTR YR 1974 TOTAL 105,472 MEAN 289 MAX 1,970 MIN 108 CFSM 1.55 IN 21.09

PEAK DISCHARGE (BASE, 1,200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	0300	7.99	2,840	5-22	1900	7.18	2,060
3- 3	2400	7.79	2,640				

05432500 PECATONICA RIVER AT DARLINGTON, WIS.

LOCATION.--LAT 42°40'40", LONG 90°07'07", IN NE 1/4 SEC.3, T.2 N., R.3 E., LAFAYETTE COUNTY, ON RIGHT BANK IN DARLINGTON, 0.3 MI (0.5 KM) DOWNSTREAM FROM VINEGAR BRANCH, AND 3.6 MI (5.8 KM) UPSTREAM FROM OTTER CREEK.

DRAINAGE AREA.--274 MI^2 (710 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 802.42 FT (244.578 M) ABOVE MEAN SEA LEVEL.

AVERAGE DISCHARGE.--35 YEARS, 183 FT^3/S (5.183 M^3/S), 9.07 IN/YR (230 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,980 FT^3/S (113 M^3/S) MAR. 4, GAGE HEIGHT, 14.36 FT (4.377 M); MINIMUM, 81 FT^3/S (2.29 M^3/S) DEC. 10, GAGE HEIGHT, 1.89 FT (0.576 M), RESULT OF FREEZEUP.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 22,000 FT^3/S (623 M^3/S), JULY 16, 1950, GAGE HEIGHT, 20.71 FT (6.312 M), FROM RATING CURVE EXTENDED ABOVE 11,000 FT^3/S (312 M^3/S) ON BASIS OF SLOPE-AREA DETERMINATION OF PEAK FLOW; MINIMUM, 17 FT^3/S (0.48 M^3/S) NOV. 29, 1966, GAGE HEIGHT, 2.09 FT (0.637 M), RESULT OF FREEZEUP; MINIMUM GAGE HEIGHT, 1.07 FT (0.326 M), DEC. 6, 1968, RESULT OF FREEZEUP.
FLOOD OF FEB. 21, 1937, REACHED A STAGE OF 17.6 FT (5.36 M), FROM FLOODMARKS.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(RATE OF CHANGE IN STAGE USED AS FACTOR JAN. 29, FEB. 1, MAR. 4; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 9, 11-23, DEC. 30 TO JAN. 17, FEB. 3-12, 24-27, MAR. 24-26.)

2.0	92	8.0	880
3.0	200	10.0	1,320
4.0	320	12.0	2,000
6.0	580	14.0	3,500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	150	134	110	582	252	228	178	238	277	164	196
2	178	142	133	100	220	573	212	165	222	291	166	166
3	173	139	137	100	200	2,410	206	163	211	267	173	159
4	231	134	178	100	180	3,210	260	155	206	254	184	154
5	224	131	312	100	160	1,410	240	148	200	243	168	150
6	173	129	217	100	150	468	204	146	212	232	157	147
7	180	130	165	100	140	342	192	142	247	223	155	146
8	178	133	139	100	130	350	181	177	285	217	151	146
9	170	121	150	100	130	399	169	177	559	211	148	143
10	176	118	108	100	130	425	170	159	614	276	180	141
11	322	136	130	100	130	286	168	199	352	356	313	144
12	308	131	140	100	130	261	179	205	291	242	232	146
13	188	134	130	100	140	231	181	177	280	224	213	150
14	170	140	120	100	134	212	438	319	355	212	178	142
15	162	167	120	110	125	208	602	297	467	201	162	137
16	155	164	120	110	124	214	382	340	297	193	161	133
17	150	144	120	120	126	198	313	672	265	188	235	131
18	150	139	110	131	165	187	277	439	250	186	180	131
19	148	135	110	194	396	186	254	383	242	195	162	129
20	145	136	110	875	399	175	236	330	340	184	155	128
21	142	185	110	1,280	483	169	235	315	1,400	176	163	125
22	142	192	110	818	433	165	229	570	1,100	181	270	124
23	141	154	110	386	238	141	208	441	791	181	234	124
24	141	174	119	223	180	130	193	339	489	174	173	131
25	141	175	276	183	150	130	185	310	417	190	162	131
26	139	157	454	566	140	140	181	286	372	366	158	128
27	139	155	252	2,410	140	150	176	271	340	216	248	126
28	140	154	166	2,110	217	156	176	265	320	187	342	130
29	143	144	148	682	------	240	226	279	303	177	193	161
30	139	139	130	461	------	452	206	294	294	172	176	141
31	145	------	120	1,120	------	313	------	256	------	167	198	------
TOTAL	5,314	4,382	4,878	13,189	5,872	14,183	7,107	8,597	11,959	6,859	5,954	4,240
MEAN	171	146	157	425	210	458	237	277	399	221	192	141
MAX	322	192	454	2,410	582	3,210	602	672	1,400	366	342	196
MIN	139	118	108	100	124	130	168	142	200	167	148	124
CFSM	.62	.53	.57	1.55	.77	1.67	.87	1.01	1.46	.81	.70	.51
IN.	.72	.59	.66	1.79	.80	1.93	.96	1.17	1.62	.93	.81	.58

CAL YR 1973 TOTAL 120,419 MEAN 330 MAX 1,910 MIN 108 CFSM 1.20 IN 16.35
WTR YR 1974 TOTAL 92,534 MEAN 254 MAX 3,210 MIN 100 CFSM .93 IN 12.56

PEAK DISCHARGE (BASF, 1,500 FT^3/S, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	1900	13.56	3,000	3- 4	0300	14.36	3,980

05433000 EAST BRANCH PECATONICA RIVER NEAR BLANCHARDVILLE, WIS.

LOCATION.--LAT 42°47'10" LONG 89°51'40", IN SE 1/4 SEC. 26, T.4 N., R.5 E., LAFAYETTE COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF BRIDGE ON STATE HIGHWAY 78, 1.8 MI (2.9 KM) SOUTH OF BLANCHARDVILLE AND 4.5 MI (7.2 KM) UPSTREAM FROM SAWMILL CREEK.

DRAINAGE AREA.--221 MI^2 (572 KM^2).

PERIOD OF RECORD.--SEPTEMBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 796.8 FT (242.86 M) ABOVE MEAN SEA LEVEL, UNADJUSTED. PRIOR TO DEC. 20, 1939, NONRECORDING GAGE AT BRIDGE 50 FT (15 M) UPSTREAM AT SAME DATUM. AUXILIARY NONRECORDING GAGE 2.7 MI (4.3 KM) UPSTREAM AT SAME DATUM READ EVERY SIX HOURS OR MORE OFTEN WHEN STAGES EXCEED 10 FT (3 M).

AVERAGE DISCHARGE.--35 YEARS, 140 FT^3/S (3.96 M^3/S), 8.60 IN/YR (218 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 2,920 FT^3/S (82.7 M^3/S) MAR. 4, GAGE HEIGHT, 12.91 FT (3.935 M); MINIMUM DAILY, 110 ft^3/s (3.12 m^3/s) Dec. 20-23, Dec. 31 to Jan. 16.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 11,700 FT^3/S (331 M^3/S) FEB. 28, 1948, GAGE HEIGHT, 15.74 FT (4.798 M); MINIMUM, 18 FT^3/S (0.51 M^3/S) NOV. 29, 1966.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND). (STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 11 TO JAN. 22, FEB. 2-18, 24-27, MAR. 23-26.)

3.5	105	10.0	932
4.0	144	11.0	1,250
6.0	349	12.0	1,860
8.0	584	13.0	3,050
9.0	704		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	136	126	110	285	162	251	204	221	191	142	139
2	155	133	126	110	240	242	236	193	212	191	141	132
3	150	129	130	110	200	1,670	227	193	204	189	142	130
4	203	126	146	110	190	2,180	242	184	200	185	144	129
5	186	126	279	110	170	743	226	182	193	181	142	127
6	151	125	181	110	160	392	200	181	198	176	138	126
7	154	126	150	110	160	326	195	175	212	171	137	126
8	153	130	138	110	150	310	186	204	222	169	134	126
9	147	128	143	110	140	359	181	202	445	166	132	125
10	146	121	128	110	130	324	181	183	516	189	134	123
11	157	125	150	110	130	260	179	224	269	236	161	126
12	162	126	160	110	130	250	200	224	229	176	151	125
13	149	129	130	110	120	226	197	194	213	170	147	130
14	142	129	120	110	120	212	478	310	249	164	141	127
15	139	142	130	110	120	214	701	290	514	158	136	125
16	137	142	120	110	120	236	398	340	339	154	137	122
17	134	130	120	120	120	217	334	561	229	154	182	122
18	134	129	120	120	130	203	306	352	219	154	146	122
19	134	127	120	130	235	202	286	341	224	160	139	121
20	133	126	110	400	214	190	269	288	215	153	136	120
21	130	159	110	700	264	187	254	279	618	149	136	119
22	130	153	110	450	250	183	257	538	452	148	166	118
23	130	135	110	251	175	170	242	390	318	150	152	118
24	129	151	120	159	160	160	228	308	257	147	137	122
25	130	155	180	145	150	150	219	287	238	161	133	122
26	128	141	230	256	140	160	215	271	225	266	132	122
27	129	140	170	2,080	140	169	213	259	215	166	164	120
28	134	144	140	1,190	146	216	210	251	208	152	170	122
29	134	136	130	302	------	272	264	259	202	148	138	138
30	133	131	120	225	------	436	235	251	199	144	134	130
31	133	------	110	728	------	300	------	235	------	143	151	------
TOTAL	4,465	4,030	4,357	9,016	4,689	11,321	7,810	8,353	8,255	5,261	4,475	3,754
MEAN	144	134	141	291	167	365	260	269	275	170	144	125
MAX	203	159	279	2,080	285	2,180	701	561	618	266	182	139
MIN	128	121	110	110	120	150	179	175	193	143	132	118
CFSM	.65	.61	.64	1.32	.76	1.65	1.18	1.22	1.24	.77	.65	.57
IN.	.75	.68	.73	1.52	.79	1.91	1.31	1.41	1.39	.89	.75	.63

CAL YR 1973 TOTAL 91,725 MEAN 251 MAX 1,710 MIN 100 CFSM 1.14 IN 15.44
WTR YR 1974 TOTAL 75,786 MEAN 208 MAX 2,180 MIN 110 CFSM .94 IN 12.76

PEAK DISCHARGE (BASE, 1,300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-27	1900	12.88	2,870	3- 4	0900	12.91	2,920

05434500 PECATONICA RIVER AT MARTINTOWN, WIS.

LOCATION.--LAT 42°30'34", LONG 89°47'58", IN SE 1/4 SEC.32, T.1 N., R.6 E., GREEN COUNTY, ON RIGHT BANK ABOUT 400 FT (120 M) DOWNSTREAM FROM HIGHWAY BRIDGE IN MARTINTOWN, 0.3 MI (0.5 KM) UPSTREAM FROM WISCONSIN-ILLINOIS STATE LINE AND 8.8 MI (14.1 KM) DOWNSTREAM FROM SKINNER CREEK.

DRAINAGE AREA.--1,034 MI^2 (2,678 KM^2).

PERIOD OF RECORD.--OCTOBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 757.9 FT (231.01 M) ABOVE MEAN SEA LEVEL. PRIOR TO JAN. 6, 1940, NONRECORDING GAGE AT SAME SITE AND DATUM. AUXILIARY NONRECORDING GAGE 1.2 MI (1.9 KM) DOWNSTREAM READ SEVERAL TIMES DAILY DURING HIGH WATER.

AVERAGE DISCHARGE.--35 YEARS, 709 FT^3/S (20.1 M^3/S), 9.31 IN/YR (236 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 6,420 FT^3/S (182 M^3/S) MAR. 6, GAGE HEIGHT, 16.37 FT (4.990 M); MINIMUM DAILY, 500 FT^3/S (14.2 M^3/S) JAN. 8-15.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 15,100 FT^3/S (428 M^3/S) JULY 1, 1969, GAGE HEIGHT, 21.46 FT (6.541 M); NO FLOW FOR PART OF DEC. 14, 1939.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1308: 1949-50(M). WRD WIS. 1971: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTRDL METHOD USED SEPT. 6-30; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 31 TO JAN. 26, FEB. 2 TO MAR. 1.)

4.2	481	11.0	2,280
5.0	660	13.0	3,160
7.0	1,160	15.0	4,660
9.0	1,710	17.0	7,360

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	975	650	667	660	4,870	1,300	1,330	1,050	1,430	1,350	790	703
2	888	650	648	620	4,000	1,670	1,120	945	1,290	1,310	790	720
3	818	634	641	580	3,500	2,710	1,030	888	1,210	1,300	790	679
4	905	615	715	560	2,500	3,460	1,140	854	1,150	1,330	804	660
5	1,090	602	1,110	540	1,900	4,990	1,110	827	1,110	1,240	806	648
6	985	592	1,240	520	1,500	6,280	1,060	803	1,090	1,160	785	634
7	845	588	1,080	520	1,300	5,540	963	791	1,110	1,110	758	627
8	794	588	890	500	1,200	4,050	898	849	1,160	1,070	742	624
9	773	585	797	500	1,100	2,940	866	893	1,550	1,040	730	618
10	746	576	761	500	1,000	2,430	842	898	2,090	1,030	727	613
11	737	560	631	500	940	2,040	837	978	2,250	1,140	811	608
12	787	572	694	500	900	1,660	881	1,060	2,100	1,220	928	611
13	898	590	799	500	860	1,390	900	1,050	1,680	1,140	902	611
14	797	597	730	500	820	1,220	1,270	1,150	1,510	1,040	816	615
15	718	679	749	500	780	1,140	1,680	1,270	1,700	989	766	611
16	684	718	818	520	760	1,140	1,880	1,440	1,750	950	727	595
17	665	701	835	520	760	1,130	1,840	1,690	1,590	920	730	588
18	650	658	859	540	780	1,080	1,600	1,920	1,370	908	787	578
19	646	627	828	560	1,200	1,020	1,350	1,960	1,240	903	780	574
20	638	618	768	1,200	1,600	978	1,210	1,830	1,330	900	720	567
21	631	682	710	2,000	1,700	938	1,140	1,740	2,810	878	696	565
22	624	761	720	2,300	1,900	905	1,110	3,080	3,600	869	696	554
23	620	770	727	2,300	1,700	878	1,080	2,900	4,210	874	806	545
24	618	806	730	2,300	1,300	818	1,020	2,810	4,210	862	823	558
25	615	835	902	2,000	1,100	763	958	2,420	3,710	847	732	567
26	611	806	1,300	1,600	960	810	923	1,990	3,020	871	689	569
27	618	756	1,390	2,930	940	830	903	1,700	2,290	1,020	749	567
28	636	739	1,190	3,320	940	803	886	1,540	1,790	970	814	565
29	638	737	945	4,370	------	820	1,100	1,490	1,550	859	888	569
30	643	710	775	5,560	------	1,060	1,130	1,650	1,430	821	775	613
31	648	------	700	5,560	------	1,300	------	1,650	------	802	706	------
TOTAL	22,941	20,002	26,349	45,580	42,810	58,093	34,057	46,116	58,330	31,723	24,063	18,156
MEAN	740	667	850	1,470	1,529	1,874	1,135	1,488	1,944	1,023	776	605
MAX	1,090	835	1,390	5,560	4,870	6,280	1,880	3,080	4,210	1,350	928	720
MIN	611	560	631	500	760	763	837	791	1,090	802	689	545
CFSM	.71	.64	.82	1.41	1.47	1.80	1.09	1.43	1.87	.98	.75	.58
IN.	.82	.72	.94	1.63	1.53	2.08	1.22	1.65	2.09	1.13	.86	.65

CAL YR 1973 TOTAL 507,487 MEAN 1,390 MAX 5,650 MIN 520 CFSM 1.34 IN 18.15
WTR YR 1974 TOTAL 428,220 MEAN 1,173 MAX 6,280 MIN 500 CFSM 1.13 IN 15.32

PEAK DISCHARGE (BASE, 4,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-30	2200	16.26	6,260	6-23	1900	14.58	4,240
3- 6	1300	16.37	6,420				

05436500 SUGAR RIVER NEAR BRODHEAD, WIS.

LOCATION.--LAT 42°36'42", LONG 89°23'53", IN SW 1/4 SEC.26, T.2 N., R.9 E., GREEN COUNTY, ON LEFT BANK AT DOWNSTREAM SIDE OF HIGHWAY BRIDGE, 1.2 MI (1.9 KM) SOUTHWEST OF BRODHEAO, AND 1.9 MI (3.1 KM) UPSTREAM FROM SYLVESTER CREEK.

DRAINAGE AREA.--523 MI^2 (1,355 KM^2).

PERIOD OF RECORD.--JANUARY 1914 TO CURRENT YEAR. MONTHLY DISCHARGE ONLY FOR JANUARY AND FEBRUARY 1914, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 768.14 FT (234.129 M) ABOVE MEAN SEA LEVEL. PRIOR TO OCT. 17, 1938, NONRECORDING GAGE AT SAME SITE AND DATUM.

AVERAGE DISCHARGE.--60 YEARS, 342 FT^3/S (9.685 M^3/S), 8.88 IN/YR (226 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 5,450 FT^3/S (154 M^3/S) MAR. 4, GAGE HEIGHT, 8.13 FT (2.478 M); MINIMUM, 242 FT^3/S (6.85 M^3/S) AUG. 26, GAGE HEIGHT, 0.83 FT (0.253 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 14,800 FT^3/S (419 M^3/S) SEPT. 13, 1915, GAGE HEIGHT, 11.4 FT (3.47 M) FROM FLOODMARKS, FROM RATING CURVE EXTENDED ABOVE 7,500 FT^3/S (212 M^3/S); MINIMUM, 35 FT^3/S (0.99 M^3/S) SEPT. 19, 1959, GAGE HEIGHT, -0.16 FT (-0.049 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS AND THOSE FOR PERIOD OF NO GAGE-HEIGHT RECORD, WHICH ARE FAIR.

REVISIONS (WATER YEARS).--WSP 1238: 1914-16, 1918, 1922, 1927, 1933. WSP 1508: 1916-17(M), 1919(M), 1920, 1921(M), 1927-28(M), 1930(M), 1931, 1936(M), 1943(M). WRD WIS. 1971: DRAINAGE AREA.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED JUNE 3 TO SEPT. 30; STAGE-DISCHARGE RELATION AFFECTED BY ICE JAN. 16-21, FEB. 2-21.)

1.0	257	5.0	1,750
2.0	539	6.0	2,270
3.0	884	7.0	3,210
4.0	1,280	8.0	4,980

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	616	384	400	360	1,110	440	1,020	603	575	467	351	306
2	556	376	380	330	840	613	862	526	529	467	340	303
3	533	356	380	310	660	1,990	701	479	504	470	324	298
4	757	340	450	300	500	4,850	967	446	495	479	351	298
5	1,040	332	900	290	380	4,310	1,180	428	482	546	346	284
6	1,070	351	1,000	280	360	2,310	924	402	485	504	335	276
7	810	351	900	280	340	1,640	715	384	504	449	327	281
8	562	327	600	270	330	1,250	582	452	510	425	327	281
9	464	316	500	270	320	1,200	529	523	924	413	319	278
10	461	309	430	270	310	1,140	495	523	1,580	419	314	284
11	596	309	400	270	310	1,030	449	599	1,720	479	332	284
12	517	311	380	260	300	880	476	671	1,410	623	356	276
13	458	316	370	260	300	722	582	650	1,090	674	348	269
14	413	324	350	270	300	613	1,130	681	817	529	335	274
15	387	384	340	270	300	572	1,370	705	913	443	324	279
16	367	425	330	280	300	589	1,500	838	949	399	314	269
17	351	413	320	280	310	650	1,150	1,110	1,010	396	322	269
18	343	376	320	280	320	650	841	1,740	792	399	346	267
19	332	354	320	290	350	599	664	1,520	647	390	332	264
20	329	343	330	320	420	556	592	1,020	603	387	319	264
21	327	387	330	800	560	520	552	920	1,320	376	309	267
22	324	428	340	2,140	743	498	546	1,320	1,600	379	309	264
23	329	428	350	1,770	691	482	533	1,450	1,500	376	311	262
24	319	501	380	1,230	582	449	507	1,700	1,120	367	306	267
25	316	517	440	754	501	431	476	1,210	796	370	298	274
26	314	495	600	557	473	434	470	855	637	404	276	271
27	322	458	800	1,450	428	425	461	712	565	452	311	269
28	351	431	700	2,330	407	416	455	647	529	428	316	269
29	399	422	540	2,640	------	461	569	526	504	384	309	276
30	390	404	450	1,880	------	841	623	616	485	362	303	284
31	387	------	400	1,430	------	998	------	603	------	351	299	------
TOTAL	14,740	11,468	14,730	22,721	12,745	32,559	21,921	24,859	25,595	13,607	10,009	8,307
MEAN	475	382	475	733	455	1,050	731	802	853	439	323	277
MAX	1,070	517	1,000	2,640	1,110	4,850	1,500	1,740	1,720	674	356	306
MIN	314	309	320	260	300	416	449	384	482	351	276	262
CFSM	.91	.73	.91	1.40	.87	2.01	1.40	1.53	1.63	.84	.62	.53
IN.	1.05	.82	1.05	1.62	.91	2.32	1.56	1.77	1.82	.97	.71	.59

CAL YR 1973 TOTAL 231,119 MEAN 633 MAX 3,590 MIN 250 CFSM 1.21 IN 16.44
WTR YR 1974 TOTAL 213,261 MEAN 584 MAX 4,850 MIN 260 CFSM 1.12 IN 15.17

PEAK DISCHARGE (BASE, 1,300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-22	1300	5.99	2,260	5-18	2000	5.20	1,890
1-29	0800	6.55	2,780	5-24	0400	5.06	1,820
3- 4	2200	8.13	5,450	6-10	2100	4.94	1,770
4-16	0500	4.59	1,560	6-22	2000	4.78	1,700

NOTE.--NO GAGE-HEIGHT RECORD DEC. 1 TO JAN. 15.

05437500 ROCK RIVER AT ROCKTON, ILL.

LOCATION.--LAT 42°26'55", LONG 89°04'11", SW 1/4 NE 1/4 SEC.24, T.46 N., R.1 E., WINNEBAGO COUNTY, ON RIGHT BANK 750 FT (229 M) DOWNSTREAM FROM STATE HIGHWAY 75 IN ROCKTON, 1.0 MI (1.6 KM) DOWNSTREAM FROM PECATONICA RIVER.

DRAINAGE AREA.--6,361 MI^2 (16,475 KM^2).

PERIOD OF RECORD.--JUNE 1903 TO JULY 1906, OCTOBER 1906 TO MARCH 1909, JULY 1914 TO SEPT. 1919, OCTOBER 1939 TO CURRENT YEAR. PUBLISHED AS "BELOW MOUTH OF PECATONICA RIVER AT ROCKTON" 1903-09; AS "AT ROCKTON" 1914-19. MONTHLY DISCHARGE ONLY FOR SOME PERIODS, PUBLISHED IN WSP 1308.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 707.94 FT (215.780 M) ABOVE MEAN SEA LEVEL (LEVELS BY CORPS OF ENGINEERS). PRIOR TO OCT. 1, 1906, NONRECORDING GAGE AT SAME SITE AT DATUM ABOUT 1 FT (0.30 M) HIGHER. OCT. 1, 1906, TO MAR. 31, 1909, NONRECORDING GAGE AT SAME SITE AT DATUM ABOUT 2 FT (0.6 M) HIGHER. JULY 30, 1914, TO APR. 30, 1919, NONRECORDING GAGE AT SITE AT ROCKFORD ABOUT 21 MI (34 KM) DOWNSTREAM, AT DIFFERENT DATUM. OCT. 1, 1939, TO AUG. 10, 1973, AT SITE 800 FT (244 KM) UPSTREAM AT SAME DATUM.

AVERAGE DISCHARGE.--42 YEARS (1903-05, 1914-19, 1939-74), 3,868 FT^3/S (109.5 M^3/S), 8.26 IN/YR (210 MM/YR), DISCHARGE FOR SITE AT ROCKFORD ADJUSTED FOR DIFFERENCE IN DRAINAGE AREA.

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 19,900 FT^3/S (564 M^3/S) MAR. 11, GAGE HEIGHT, 11.32 FT (3.450 M); MINIMUM DAILY, 2,150 FT^3/S (60.9 M^3/S) SEPT. 7.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 32,500 FT^3/S (920 M^3/S) MAR. 30, 1916, GAGE HEIGHT, 13.06 FT (3.981 M), SITE AND DATUM THEN IN USE; MINIMUM DAILY, 501 FT^3/S (14.2 M^3/S) SEPT. 14, 1958.
FLOOD IN FEBRUARY 1937 REACHED A STAGE OF 14.6 FT (4.450 M), BACKWATER FROM ICE, FROM PAINTED FLOODMARK.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE POOR. LOW FLOW REGULATED BY POWERPLANT ABOVE STATION.

REVISIONS (WATER YEARS).--WSP 325: 1903-9. WSP 895: 1904(M). WSP 1508: 1915, 1916-17(M). WRD ILL. 1972: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,800	4,330	4,430	4,600	13,400	7,250	11,500	12,000	11,700	9,720	3,700	3,780
2	7,500	4,410	4,270	4,550	12,500	7,840	11,700	11,600	11,000	9,100	3,310	3,670
3	8,400	4,450	4,130	4,500	12,200	10,600	11,700	10,900	10,400	8,340	3,210	3,540
4	9,100	4,400	4,570	4,400	12,000	14,400	12,200	10,100	9,650	7,720	3,410	3,540
5	8,300	4,300	6,680	4,200	11,100	16,200	12,500	9,530	9,100	7,280	3,940	3,580
6	7,900	4,100	7,520	4,000	10,300	17,900	12,500	9,130	8,730	7,080	3,550	3,350
7	7,500	4,000	7,340	3,900	9,440	18,900	12,500	8,680	8,430	6,680	3,380	2,150
8	6,600	3,800	7,310	3,800	8,870	18,600	12,500	8,650	8,750	6,280	3,310	2,410
9	6,100	4,000	6,960	3,600	8,140	19,100	11,800	8,950	9,930	5,880	3,380	2,640
10	5,850	3,950	6,580	3,500	7,610	19,500	11,100	8,840	11,200	5,780	2,890	2,600
11	5,690	3,900	5,510	3,300	6,970	19,700	10,700	9,650	11,200	5,880	3,330	2,490
12	5,600	3,800	5,570	3,100	6,730	19,600	10,500	10,200	11,300	5,620	3,200	2,510
13	5,640	3,700	5,520	3,150	6,660	18,900	10,400	9,720	11,600	5,700	3,450	2,290
14	5,600	3,600	4,990	3,350	6,500	17,700	11,600	10,300	11,600	5,620	3,510	2,420
15	5,280	3,900	5,460	3,500	6,300	16,600	13,700	10,100	11,900	5,600	3,440	2,360
16	5,160	4,140	4,750	3,650	5,900	15,700	14,200	10,600	11,300	5,420	3,510	2,460
17	4,640	4,030	4,270	3,740	5,600	14,900	14,500	12,800	10,700	4,300	3,760	2,550
18	4,330	3,970	4,850	3,850	5,400	14,100	14,500	13,600	10,200	3,990	3,450	2,410
19	4,320	3,780	4,770	3,950	5,550	13,400	14,700	14,300	9,900	4,300	3,440	2,380
20	4,400	3,680	4,720	6,300	5,800	12,900	14,500	15,200	9,600	4,160	3,440	2,370
21	4,460	4,000	4,350	7,300	5,900	12,300	14,000	15,900	14,000	4,080	3,280	2,370
22	4,270	3,920	4,290	7,650	6,400	11,800	13,000	18,400	14,600	4,240	3,270	2,360
23	4,270	3,970	4,540	7,350	7,600	11,300	12,200	19,400	13,300	4,380	3,200	2,340
24	4,060	4,560	4,670	7,500	7,650	10,700	12,000	17,800	12,800	3,970	3,360	2,250
25	4,030	5,240	4,900	7,880	7,400	10,300	11,600	16,900	12,400	4,020	3,280	2,170
26	3,900	5,090	5,410	8,170	7,280	9,900	11,200	16,500	12,200	3,990	3,340	2,230
27	4,000	5,120	5,650	9,880	7,210	9,760	10,900	16,000	11,800	3,920	3,280	2,220
28	4,080	4,850	5,740	10,500	7,150	9,720	10,500	15,000	11,400	4,010	3,680	2,200
29	4,330	4,670	5,960	10,100	------	9,790	12,200	14,200	10,900	3,890	4,110	2,250
30	4,320	4,410	5,360	10,900	------	10,700	12,500	13,400	10,300	4,210	4,080	2,400
31	4,560	------	4,720	12,700	------	11,400	------	12,500	------	3,670	4,000	------
TOTAL	170,990	126,070	165,790	178,870	223,560	431,460	369,400	390,850	331,890	168,830	107,490	78,290
MEAN	5,516	4,202	5,348	5,770	7,984	13,920	12,310	12,610	11,060	5,446	3,467	2,610
MAX	9,100	5,240	7,520	12,700	13,400	19,700	14,700	19,400	14,600	9,720	4,110	3,780
MIN	3,900	3,600	4,130	3,100	5,400	7,250	10,400	8,650	8,430	3,670	2,890	2,150
CFSM	.87	.66	.84	.91	1.25	2.19	1.93	1.98	1.74	.86	.54	.41
IN.	1.00	.74	.97	1.05	1.31	2.52	2.16	2.29	1.94	.99	.63	.46

CAL YR 1973 TOTAL 2,987,740 MEAN 8,186 MAX 23,200 MIN 2,750 CFSM 1.29 IN 17.47
WTR YR 1974 TOTAL 2,743,490 MEAN 7,516 MAX 19,700 MIN 2,150 CFSM 1.18 IN 16.04

05527800 DES PLAINES RIVER AT RUSSELL, ILL.

LOCATION.--LAT 42°29'22", LONG 87°55'32", IN SE 1/4 SEC.3, T.46 N., R.11 E., LAKE COUNTY, AT CENTER ON DOWNSTREAM SIDE OF BRIDGE ON RUSSELL ROAD, 0.3 MI (0.5 KM) WEST OF RUSSELL, 7.2 MI (11.6 KM) UPSTREAM FROM MILL CREEK, AND AT MILE 109.14 (175.61 KM).

DRAINAGE AREA.--124 MI^2 (321 KM^2).

PERIOD OF RECORD.--OCCASIONAL LOW-FLOW MEASUREMENTS, WATER YEARS 1961-63, AND ANNUAL MAXIMUM STAGES, WATER YEARS 1962-66, JUNE 1967 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 662.00 FT (201.778 M) ABOVE MEAN SEA LEVEL. OCT. 17, 1961, TO JUNE 29, 1967, CREST-STAGE GAGE AT LEFT DOWNSTREAM SIDE OF BRIDGE AT DATUM 4.29 FT (1.308 M) HIGHER.

AVERAGE DISCHARGE.--7 YEARS, 104 FT^3/S (2.945 M^3/S), 11.39 IN/YR (289 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,690 FT^3/S (47.9 M^3/S) MAR. 5, GAGE HEIGHT, 9.30 FT (2.835 M), FROM CREST-STAGE GAGE; MINIMUM, 2.0 FT^3/S (0.057 M^3/S) AUG. 23, 24.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 1,690 FT^3/S (47.9 M^3/S) MAR. 5, 1974, GAGE HEIGHT, 9.30 FT (2.835 M), FROM CREST-STAGE GAGE; MAXIMUM GAGE HEIGHT, 9.40 FT (2.865 M) SEPT. 22, 1972; NO FLOW AT TIMES MOST YEARS. MAXIMUM STAGE SINCE 1938, 9.69 FT (2.954 M), PRESENT DATUM, IN APRIL 1960, FROM FLOODMARK.

REMARKS.--RECORDS GODO EXCEPT THOSE FOR WINTER PERIOOS AND THOSE FOR PERIOD OF NO GAGE HEIGHT RECORD, WHICH ARE POOR.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	17	101	400	1,040	445	295	170	170	26	4.1	2.5
2	22	25	90	350	840	650	356	216	133	24	3.9	2.3
3	21	26	80	265	600	1,050	366	233	104	25	9.7	2.3
4	23	21	83	160	480	1,500	364	213	86	26	7.9	2.4
5	19	17	145	105	420	1,590	336	179	77	26	6.4	3.0
6	15	15	219	75	360	1,470	302	147	121	25	5.1	2.8
7	12	14	296	62	320	1,140	265	118	198	19	4.5	2.4
8	12	13	360	56	280	924	221	105	275	15	4.1	2.2
9	11	13	387	52	250	857	187	107	350	13	3.6	2.3
10	10	11	379	48	210	760	161	108	394	14	3.2	2.3
11	9.2	11	350	45	190	652	139	105	458	22	3.6	2.7
12	9.0	10	298	43	160	566	131	103	485	26	3.5	2.5
13	11	9.5	249	41	140	482	126	110	467	21	4.1	2.4
14	15	10	219	42	125	407	180	136	423	17	3.8	2.3
15	19	17	165	43	115	350	300	245	390	13	2.8	3.0
16	16	49	140	41	106	312	461	515	344	9.8	2.6	2.8
17	13	74	120	39	100	285	542	598	294	9.2	3.3	2.8
18	11	78	105	38	94	270	494	612	246	9.1	3.7	2.8
19	9.9	66	94	41	109	258	408	565	198	8.9	3.5	2.8
20	8.7	53	85	74	130	235	339	513	159	8.7	3.3	2.8
21	8.3	47	76	130	160	210	282	471	176	7.7	3.5	3.0
22	7.6	41	72	160	350	188	256	469	175	11	2.4	3.1
23	7.2	38	70	190	430	168	216	464	160	14	2.0	3.3
24	6.5	41	74	210	450	147	180	473	127	13	2.0	3.7
25	6.0	66	93	240	447	126	150	462	96	11	2.2	3.9
26	5.7	92	153	300	440	111	125	423	76	9.3	2.3	4.1
27	5.8	103	237	430	410	103	104	376	61	8.1	3.6	3.8
28	6.9	103	316	840	395	99	88	330	48	7.2	3.9	4.0
29	8.8	102	379	1,000	------	117	100	289	40	5.6	3.5	4.3
30	9.3	106	422	1,090	------	156	130	244	32	4.9	4.0	4.5
31	11	------	418	1,100	------	219	------	215	------	4.4	3.1	------
TOTAL	373.9	1,288.5	6,275	7,710	9,151	15,847	7,604	9,314	6,363	453.9	119.2	89.1
MEAN	12.1	43.0	202	249	327	511	253	300	212	14.6	3.85	2.97
MAX	24	106	422	1,100	1,040	1,590	542	612	485	26	9.7	4.5
MIN	5.7	9.5	70	38	94	99	88	103	32	4.4	2.0	2.2
CFSM	.10	.35	1.64	2.02	2.66	4.15	2.06	2.44	1.72	.12	.03	.02
IN.	.11	.39	1.90	2.33	2.77	4.79	2.30	2.82	1.92	.14	.04	.03

CAL YR 1973 TOTAL 48,412.80 MEAN 133 MAX 1,060 MIN .90 CFSM 1.08 IN 14.64
WTR YR 1974 TOTAL 64,588.60 MEAN 177 MAX 1,590 MIN 2.0 CFSM 1.44 IN 19.53

NOTE.--NO GAGE-HEIGHT RECORD FROM FEB. 5 TO MAR. 5.

05543830 FOX RIVER AT WAUKESHA, WIS.

LOCATION.--LAT 43°00'17", LONG 88°14'37", IN SW 1/4 SEC.3, T.6 N., R.18 E., WAUKESHA COUNTY, ON LEFT BANK 20 FT (6.10 M) DOWNSTREAM FROM PRAIRIE STREET BRIDGE IN WAUKESHA, 1.0 MI (1.6 KM) DOWNSTREAM FROM DAM AND 3.2 MI (5.1 KM) DOWNSTREAM FROM PEWAUKEE RIVER.

DRAINAGE AREA.--127 MI^2 (329 KM^2).

PERIOD OF RECORD.--JANUARY 1963 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 793.04 FT (241.718 M) ABOVE MEAN SEA LEVEL (LEVELS BY CITY OF WAUKESHA).

AVERAGE DISCHARGE.--11 YEARS, 86.7 FT^3/S (2.455 M^3/S), 9.27 IN/YR (235 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 1,520 FT^3/S (43.0 M^3/S) MAR. 5, GAGE HEIGHT, 6.27 FT (1.911 M); MINIMUM, 9.4 FT^3/S (0.27 M^3/S) SEPT. 21, 22, 23, GAGE HEIGHT, 1.73 FT (0.527 M).
PERIOD OF RECORD: MAXIMUM DISCHARGE, 2,260 FT^3/S (64.0 M^3/S) APR. 22, 1973, GAGE HEIGHT, 7.42 FT (2.262 M); MINIMUM, 3.0 FT^3/S (0.085 M^3/S) JAN. 1, 1964, GAGE HEIGHT, 1.52 FT (0.463 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. OCCASIONAL REGULATION FROM MILL DAM 1.0 MI (1.6 KM) UPSTREAM.

RATING TABLES (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE DISCHARGE RELATION AFFECTED BY ICE DEC. 12-23, DEC. 28 TD JAN. 18, JAN. 31 TO FEB. 5.)

OCT. 1 TO MAR. 3				MAR. 4 TO SEPT. 30			
2.2	31	4.0	402	1.7	8.0	3.0	201
2.5	60	5 0	790	1.9	19	4.0	506
3.0	144			2.2	47	5.0	905
				2.5	93	7.0	1,960

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	133	77	110	180	140	569	169	118	130	34	33
2	73	129	68	82	160	174	461	189	116	46	36	30
3	76	104	73	70	130	660	375	128	116	59	34	28
4	68	82	131	64	110	1,420	338	134	128	74	33	29
5	67	73	267	60	90	1,440	335	122	120	94	33	27
6	53	66	301	58	80	1,110	299	93	112	82	31	27
7	43	60	259	56	82	772	276	108	112	70	29	26
8	42	60	203	54	78	592	241	136	112	126	30	25
9	40	53	157	52	76	632	217	171	160	43	29	26
10	58	50	127	50	76	632	199	162	224	68	30	24
11	80	49	102	50	82	538	174	238	204	83	43	24
12	87	31	78	50	80	451	199	323	167	79	43	28
13	77	35	49	50	78	378	191	288	125	65	36	27
14	64	51	54	52	77	326	482	262	106	57	32	25
15	55	80	60	54	76	297	874	249	92	55	30	23
16	49	99	56	58	74	294	796	326	86	53	68	23
17	49	73	62	62	66	320	553	454	85	50	61	22
18	47	59	66	66	84	302	414	440	86	49	51	21
19	47	57	62	68	88	305	375	394	118	49	40	64
20	43	70	60	167	93	276	341	347	138	47	34	29
21	39	80	58	280	107	251	305	302	132	47	31	13
22	41	82	58	299	105	227	251	271	122	49	34	9.4
23	41	71	58	232	112	199	241	238	104	46	35	9.7
24	39	123	70	174	123	189	209	196	92	48	33	18
25	40	163	152	135	111	181	189	155	88	63	29	23
26	39	127	290	185	99	179	184	130	84	62	29	21
27	46	109	315	362	97	176	169	112	81	58	36	22
28	66	112	299	408	107	214	165	108	78	42	37	38
29	121	109	250	424	------	302	209	108	71	38	50	42
30	142	95	180	324	------	411	199	101	72	38	48	34
31	135	------	140	250	------	592	------	122	------	39	15	------
TOTAL	1,941	2,485	4,182	4,406	2,721	13,980	9,830	6,576	3,449	1,909	1,134	791.1
MEAN	62.6	82.8	135	142	97.2	451	328	212	115	61.6	36.6	26.4
MAX	142	163	315	424	180	1,440	874	454	224	130	68	64
MIN	39	31	49	50	66	140	165	93	71	38	15	9.4
CFSM	.49	.65	1.06	1.12	.77	3.55	2.58	1.67	.91	.49	.29	.21
IN.	.57	.73	1.22	1.29	.80	4.09	2.88	1.93	1.01	.56	.33	.23

CAL YR 1973 TOTAL 57,132.7 MEAN 157 MAX 2,160 MIN 5.7 CFSM 1.24 IN 16.73
WTR YR 1974 TOTAL 53,404.1 MEAN 146 MAX 1,440 MIN 9.4 CFSM 1.15 IN 15.64

05544200 MUKWONAGO RIVER AT MUKWONAGO, WIS.

LOCATION.--LAT 42°51'24", LONG 88°19'40", IN NE 1/4 NE 1/4 SEC.35, T.5 N., R.18 E., WAUKESHA COUNTY, ON LEFT BANK 100 FT (30 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 83 IN MUKWONAGO, 150 FT (46 M) DOWNSTREAM FROM RAILROAD BRIDGE AND 800 FT (244 M) DOWNSTREAM FROM DAM.

DRAINAGE AREA.--76.2 MI^2 (197.4 KM^2).

PERIOD OF RECORD.--JULY 1973 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. ALTITUDE OF GAGE IS 800 FT (244 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--JULY TO SEPTEMBER 1973: MAXIMUM DAILY DURING PERIOD, 230 FT^3/S (6.51 M^3/S) SEPT. 29; MINIMUM DAILY, 3.8 FT^3/S (0.11 M^3/S) JULY 17.
WATER YEAR 1974: MAXIMUM DISCHARGE, 292 FT^3/S (8.27 M^3/S) MAR. 3, GAGE HEIGHT, 2.45 FT (0.747 M); MINIMUM DAILY, 20 FT^3/S (0.57 M^3/S) AUG. 24.

REMARKS.--RECORDS FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(SHIFTING-CONTROL METHOD USED APR. 3 TO MAY 5; STAGE-DISCHARGE RELATION AFFECTED BY ICE DEC. 31 TO JAN 17, FEB. 1-20.)

1.0	2.4	1.5	54
1.1	6.0	2.0	146
1.2	14	2.5	279

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										62	112	41
2										43	87	36
3										39	73	37
4										48	73	180
5										53	70	170
6										54	85	48
7										47	60	53
8										44	37	85
9										60	72	82
10										68	60	53
11										77	32	48
12										78	46	43
13										75	68	46
14										68	80	47
15										67	67	48
16										37	39	48
17										3.8	12	75
18										13	20	100
19										20	27	87
20										26	32	57
21										32	35	48
22										37	38	57
23										67	74	53
24										84	80	51
25										60	71	33
26										16	64	43
27										26	48	53
28										29	27	170
29					------					34	27	230
30					------					48	27	200
31		------			------		------		------	108	33	------
TOTAL										1,523.8	1,676	2,322
MEAN										49.2	54.1	77.4
MAX										108	112	230
MIN										3.8	12	33

05544200 MUKWONAGO RIVER AT MUKWONAGO, WIS.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	121	73	70	100	127	187	139	116	34	60	43
2	152	117	73	66	98	129	203	135	72	27	59	44
3	135	114	76	62	94	200	185	127	50	48	73	47
4	140	100	80	60	88	260	161	100	56	125	73	48
5	133	76	110	56	84	266	148	91	70	131	53	51
6	127	52	110	52	82	275	108	98	125	127	39	47
7	123	48	106	52	80	266	85	100	135	112	40	46
8	119	46	106	52	78	254	87	98	112	82	41	48
9	98	51	103	52	78	205	89	100	110	53	41	48
10	44	46	99	50	76	157	91	98	125	44	43	46
11	56	48	92	50	76	139	98	173	159	64	56	47
12	105	50	90	50	74	148	114	193	164	75	64	44
13	150	52	88	50	72	148	135	190	146	73	60	46
14	127	70	69	52	70	139	195	198	101	65	64	44
15	101	121	60	52	68	125	211	180	64	48	64	44
16	91	106	60	52	66	113	203	185	37	27	62	44
17	87	102	60	56	62	127	187	190	25	30	62	44
18	85	80	60	56	62	131	152	187	80	54	65	43
19	65	51	61	53	60	129	125	185	114	77	72	40
20	56	55	62	63	58	125	119	178	108	56	87	40
21	65	87	62	100	77	123	117	164	89	37	85	40
22	65	101	62	114	95	98	114	159	47	27	72	40
23	54	79	62	121	106	89	106	159	32	34	36	37
24	51	78	62	115	112	98	102	123	60	50	20	37
25	51	90	69	102	110	106	102	82	70	77	24	39
26	52	92	82	95	104	121	106	78	68	89	48	39
27	54	91	88	119	98	115	93	85	72	85	59	37
28	54	94	92	150	117	114	82	119	60	54	50	37
29	70	89	93	159	------	114	96	137	57	46	53	41
30	110	80	81	125	------	123	123	133	51	53	46	43
31	120	------	76	106	------	131	------	129	------	54	47	------
TOTAL	2,884	2,387	2,467	2,412	2,345	4,695	3,924	4,313	2,575	1,958	1,718	1,294
MEAN	93.0	79.6	79.6	77.8	83.8	151	131	139	85.8	63.2	55.4	43.1
MAX	152	121	110	159	117	275	211	198	164	131	87	51
MIN	44	46	60	50	58	89	82	78	25	27	20	37

WTR YR 1974 TOTAL 32,972 MEAN 90.3 MAX 275 MIN 20

05545000 NORTH LAKE NEAR ELKHORN, WIS.

LOCATION.--LAT 42°44'38", LONG 88°37'45", IN SE 1/4 SEC.5, T.3 N., R.16 E., WALWORTH COUNTY, ATTACHED TO POST IN LAKE NEAR END OF ROAD AT SOUTH END OF LAKE, 6.5 MI (10.5 KM) NORTHWEST OF ELKHORN.

DRAINAGE AREA.--1 MI^2 (3 KM^2), APPROXIMATELY. AREA OF NORTH LAKE, 350 ACRES (1.42 KM), APPROXIMATELY, AT HIGH STAGE.

PERIOD OF RECORD.--MAY 1937 TO CURRENT YEAR (FRAGMENTARY). PUBLISHED AS HOLDEN LAKE PRIOR TO OCTOBER 1958.

GAGE.--NONRECORDING GAGE READ ABOUT ONCE WEEKLY OR MORE OFTEN EXCEPT DURING WINTER. ALTITUDE OF GAGE IS 900 FT (274 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 15.62 FT (4.761 M) JUNE 10, 22; MINIMUM OBSERVED, 13.27 FT (4.045 M) OCT. 2.
PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 15.62 FT (4.761 M) JUNE 10, 22, 1974; LAKE DRY FOR PARTS OF PERIOD JULY TO DECEMBER 1958.

REMARKS.--LAKE HAS NO SURFACE OUTLET. LAKE ICE COVERED DEC. 8 TO MAR. 3.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			13.41						15.42			
2	13.27											
3		13.31									15.40	
4								15.00				
5												
6	13.29						14.60			15.55		
7												15.15
8									15.45			
9												
10		13.29							15.62		15.40	
11								15.10				
12												
13	13.39						14.60			15.55		
14											15.37	15.09
15									15.60	15.54		
16				13.59								
17		13.34									15.38	
18								15.30				
19												
20	13.31						14.85			15.48		
21												15.00
22						14.41			15.62			
23						14.40						
24		13.41									15.28	
25								15.40				
26												
27	13.29						14.88			15.49		
28												15.00
29					------				15.55			
30					------	14.55	15.02					
31		------			------		------		------		15.20	------

05545300 WHITE RIVER NEAR BURLINGTON, WIS.

LOCATION.--LAT 42°39'57", LONG 88°19'03", IN NE 1/4 NW 1/4 SEC.1, T.2 N., R.18 E., IN WALWORTH COUNTY, ON RIGHT BANK 10 FT (3 M) DOWNSTREAM FROM BRIDGE ON STATE HIGHWAY 36, 2.2 MI (3.5 KM) SOUTHWEST OF BURLINGTON AND 3.4 MI (5.5 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--97.5 MI^2 (253 KM^2).

PERIOD OF RECORD.--ANNUAL MAXIMUM, WATER YEARS 1958-64, 1967-73; AUGUST 1964 TO SEPTEMBER 1966 (NO WINTER RECORDS), APRIL 1973 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER. DATUM OF GAGE IS 757.43 FT (230.865 M) ABOVE MEAN SEA LEVEL.

EXTREMES.--APRIL TO SEPTEMBER 1973: MAXIMUM DISCHARGE DURING PERIOD, 1,470 FT^3/S (41.6 M^3/S) APR. 21, GAGE HEIGHT, 13.72 FT (4.182 M); MINIMUM, 26 FT^3/S (0.74 M^3/S) AUG. 30, GAGE HEIGHT, 8.23 FT (2.509 M).
WATER YEAR 1974: MAXIMUM DISCHARGE, 1,080 FT^3/S (30.6 M^3/S) MAR. 3, GAGE HEIGHT, 13.14 FT (4.005 M); MINIMUM, 16 FT^3/S (0.45 M^3/S) SEPT. 19, GAGE HEIGHT, 8.11 FT (2.472 M).

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR.

RATING TABLE (GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND).
(STAGE DISCHARGE RELATION AFFECTED BY ICE DEC. 11, 14-19, 21-23, DEC. 30 TO JAN. 20, FEB. 2-19, MAR. 22-24.)

8.1	19	10.0	240
8.3	32	11.0	374
8.6	62	12.0	600
9.0	112	13.3	1,170

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							208	526	148	78	110	32
2							258	649	133	74	100	32
3							241	524	133	78	81	31
4							240	433	149	85	70	46
5							236	381	183	89	63	64
6							208	362	204	90	58	48
7							176	351	214	82	54	41
8							166	465	199	82	51	38
9							169	474	179	79	59	40
10							186	378	155	80	62	45
11							214	310	138	70	56	43
12							238	286	133	59	51	37
13							303	265	129	60	46	36
14							431	244	124	54	43	35
15							470	234	96	50	41	33
16							385	229	108	46	38	31
17							336	178	198	40	37	73
18							256	160	182	39	41	73
19							224	150	145	41	42	51
20							209	150	128	51	42	45
21							790	140	116	75	38	41
22							990	140	106	72	35	66
23							618	150	100	75	36	55
24							479	160	108	82	40	46
25							413	170	104	86	39	64
26							371	180	99	78	39	72
27							334	170	96	70	35	64
28							296	190	92	64	34	81
29					------		291	200	89	60	34	159
30					------		433	180	81	56	31	210
31		------			------		------	158	------	120	31	------
TOTAL							10,169	8,587	4,069	2,165	1,537	1,732
MEAN							339	277	136	69.8	49.6	57.7
MAX							990	649	214	120	110	210
MIN							166	140	81	39	31	31
CFSM							3.48	2.84	1.39	.72	.51	.59
IN.							3.88	3.28	1.55	.83	.59	.66

05545300 WHITE RIVER NEAR BURLINGTON, WIS.--*Continued*

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	86	132	110	329	262	265	241	223	100	53	45
2	218	70	128	100	280	287	234	208	205	96	55	40
3	223	62	113	98	230	786	217	191	186	79	54	38
4	238	58	167	94	200	849	239	172	169	76	55	36
5	220	56	372	92	170	700	234	162	151	70	51	33
6	194	52	322	90	160	529	204	152	152	61	48	33
7	180	50	240	88	150	445	187	139	160	56	47	34
8	169	50	196	88	140	409	166	182	164	54	47	36
9	158	46	175	88	130	433	151	193	371	55	46	32
10	152	42	159	88	130	419	148	178	474	82	45	31
11	155	43	140	88	130	347	144	220	351	80	48	32
12	151	45	134	88	130	329	160	228	278	66	48	32
13	155	48	126	86	130	313	153	211	245	63	45	34
14	142	50	130	86	130	276	307	228	222	60	40	33
15	116	144	130	86	130	262	330	240	245	56	37	32
16	96	121	130	86	120	280	275	285	211	51	46	28
17	62	94	150	86	120	281	262	429	188	50	95	26
18	54	86	140	86	120	258	235	381	176	50	72	26
19	54	79	130	92	150	240	230	352	167	51	60	21
20	48	74	124	150	186	222	232	304	159	45	55	23
21	48	86	130	383	218	211	224	270	226	40	51	24
22	52	85	130	374	355	190	211	474	232	67	47	25
23	50	73	140	294	454	170	191	541	192	82	47	26
24	48	149	144	235	488	150	170	387	174	91	45	25
25	47	158	164	212	330	142	164	310	162	74	40	25
26	46	136	200	194	268	146	170	264	149	66	39	24
27	48	134	183	546	236	159	164	238	138	60	55	24
28	67	165	160	502	222	188	151	228	129	54	60	24
29	69	153	152	352	------	217	341	250	121	54	50	26
30	67	132	130	275	------	316	334	244	112	50	46	26
31	68	------	120	402	------	340	------	235	------	46	48	------
TOTAL	3,625	2,627	4,991	5,639	5,836	10,156	6,493	8,137	6,132	1,985	1,575	894
MEAN	117	87.6	161	182	208	328	216	262	204	64.0	50.8	29.8
MAX	238	165	372	546	488	849	341	541	474	100	95	45
MIN	46	42	113	86	120	142	144	139	112	40	37	21
CFSM	1.20	.90	1.65	1.87	2.13	3.36	2.22	2.69	2.09	.66	.52	.31
IN.	1.38	1.00	1.90	2.15	2.23	3.87	2.48	3.10	2.34	.76	.60	.34

WTR YR 1974 TOTAL 58,090 MEAN 159 MAX 849 MIN 21 CFSM 1.63 IN 22.16

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15-73	0400	11.70	521	1-27-74	0830	11.99	597
4-21-73	1100	13.72	1,470	2-24-74	0100	11.86	562
5- 2-73	0900	12.32	707	3- 3-74	1900	13.14	1,080
5- 8-73	2100	11.70	526	5-22-74	1900	12.28	689

05545550 ROCKLAND LAKE NEAR BURLINGTON, WIS.

LOCATION.--LAT 42°40'34", LONG 88°14'57", IN NE 1/4 SE 1/4 SEC.33, T.3 N., R.19 E., RACINE COUNTY, ABOUT 0.8 MI (1.3 KM) EAST OF BURLINGTON AT CAMP MACLEAN.

DRAINAGE AREA.--0.99 MI^2 (2.56 KM^2). AREA OF ROCKLAND LAKE, 45 ACRES (182,000 M^2).

PERIOD OF RECORD.--JANUARY 1967 TO CURRENT YEAR.

GAGE.--NONRECORDING GAGE. ALTITUDE OF GAGE IS 758 FT (231 M), FROM TOPOGRAPHIC MAP.

EXTREMES.--CURRENT YEAR: MAXIMUM GAGE HEIGHT OBSERVED, 5.57 FT (1.698 M) MAR. 5; MINIMUM OBSERVED, 4.49 FT (1.369 M) SEPT. 29.

PERIOD OF RECORD: MAXIMUM GAGE HEIGHT OBSERVED, 5.58 FT (1.701 M) JULY 30, 1969; MINIMUM GAGE HEIGHT OBSERVED, 4.49 FT (1.369 M) SEPT. 22, 1971, AND SEPT. 29, 1974.

REMARKS.--LAKE ICE COVERED DEC. 11 TO MAR. 17.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		4.66						5.46	5.44			
2												
3								5.38				
4										5.15		4.72
5						5.57	5.36					
6	4.68								5.27			
7											4.85	
8		4.64	4.87	4.98								
9					5.50							
10							5.33					4.66
11								5.38	5.41			
12			4.87						5.36			
13	4.77					5.44				5.06	4.85	
14		4.64										
15					5.50						4.81	
16										4.97		
17	4.72											4.58
18				5.08				5.40				
19		4.70										
20			4.89				5.34			4.96	4.85	
21						5.44			5.29			
22				5.21								
23					5.53							4.53
24			4.91									
25	4.68							5.44				
26							5.36			4.93		
27		4.77									4.81	
28					5.44				5.20			
29					------	5.40						4.49
30					------							
31		------		5.48	------		------		------	4.91		------

05546500 FOX RIVER AT WILMOT, WIS.

LOCATION.--LAT 42°30'40", LONG 88°10'45", IN SW 1/4 SEC.30, T.1 N., R.20 E., KENOSHA COUNTY, ON RIGHT BANK 100 FT (30 M) DOWNSTREAM FROM BRIDGE ON COUNTY TRUNK HIGHWAY C, 300 FT (90 M) UPSTREAM FROM WILMOT DAM, 1.0 MI (1.6 KM) NORTH OF WISCONSIN-ILLINOIS STATE LINE, AND 6.0 MI (9.6 KM) UPSTREAM FROM FOX CHAIN OF LAKES.

DRAINAGE AREA.--868 MI^2 (2,248 KM^2).

PERIOD OF RECORD.--OCTOBER 1939 TO CURRENT YEAR.

GAGE.--WATER-STAGE RECORDER AND CONCRETE DAM. DATUM OF GAGE IS 735.22 FT (224.095 M) ABOVE MEAN SEA LEVEL. PRIOR TO SEPT. 1, 1956, NONRECORDING GAGE AND CONCRETE DAM.

AVERAGE DISCHARGE.--35 YEARS, 501 FT^3/S (14.19 M^3/S), 7.84 IN/YR (199 MM/YR).

EXTREMES.--CURRENT YEAR: MAXIMUM DISCHARGE, 3,950 FT^3/S (112 M^3/S) MAR. 10, GAGE HEIGHT, 8.04 FT (2.451 M); MINIMUM DAILY, 225 FT^3/S (6.37 M^3/S) SEPT. 18-21, 23-28.
PERIOD OF RECORD: MAXIMUM DISCHARGE, 7,520 FT^3/S (213 M^3/S) MAR. 31, 1960, GAGE HEIGHT, 9.25 FT (2.819 M), FROM GRAPH BASED ON GAGE READINGS; NO FLOW PART OF DAY OCT. 26, 1945; MINIMUM DAILY DISCHARGE, 35 FT^3/S (0.99 M^3/S) SEPT. 9, 1958.

REMARKS.--RECORDS GOOD EXCEPT THOSE FOR WINTER PERIODS, WHICH ARE FAIR. THREE 6 FT (1.8 M) LIFT GATES IN WILMOT DAM WERE IN OPERATION DURING THE YEAR; DISCHARGE THROUGH GATES COMPUTED BY WEIR AND ORIFICE FORMULAS AND ADDED TO FLOW OVER DAM.

REVISIONS (WATER YEARS).--WSP 1308: 1943(M), 1945(M). WRD WIS. 1967: DRAINAGE AREA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,160	675	892	720	2,500	1,440	2,070	1,900	1,300	572	367	389
2	1,190	880	825	700	2,440	1,550	2,120	1,630	1,200	521	370	372
3	1,220	733	774	680	2,300	1,970	2,070	1,460	1,100	533	384	351
4	1,200	803	781	660	2,100	3,510	2,010	1,390	966	567	389	337
5	1,150	713	1,270	640	1,800	3,550	2,000	1,260	913	646	398	271
6	1,130	636	1,650	620	1,430	3,360	1,980	1,140	925	654	391	269
7	1,040	555	1,730	580	1,240	3,530	1,890	1,090	983	632	371	271
8	979	555	1,640	540	1,200	3,670	1,770	1,110	1,030	614	350	265
9	923	507	1,440	520	1,200	3,770	1,630	1,230	1,380	592	324	255
10	854	420	1,250	490	1,100	3,880	1,490	1,150	1,850	609	319	243
11	803	392	740	470	1,100	3,770	1,400	1,130	2,030	643	313	236
12	760	404	720	450	1,100	3,510	1,350	1,410	1,850	590	333	238
13	753	429	700	470	1,090	3,160	1,360	1,630	1,650	563	406	256
14	753	434	680	480	1,040	2,830	1,640	1,700	1,460	553	433	253
15	753	602	680	500	979	2,560	2,140	1,760	1,420	533	393	235
16	747	890	680	520	955	2,400	2,420	1,890	1,420	496	362	233
17	686	774	680	544	930	2,270	2,350	2,210	1,290	453	501	226
18	630	740	680	550	923	2,120	2,210	2,670	1,080	395	533	225
19	589	733	680	555	979	1,990	2,080	2,810	1,010	421	484	225
20	555	693	660	674	1,110	1,860	2,010	2,660	964	428	451	225
21	522	649	660	1,040	1,210	1,770	1,960	2,380	989	408	418	225
22	486	636	636	1,280	1,200	1,690	1,950	2,410	1,070	438	398	226
23	465	636	636	1,360	1,200	1,640	1,910	2,760	1,040	497	400	225
24	460	713	636	1,370	1,300	1,540	1,790	2,800	930	469	400	225
25	405	955	680	1,330	1,300	1,380	1,640	2,490	858	446	373	225
26	399	995	885	1,300	1,400	1,330	1,440	2,230	761	444	341	225
27	385	955	1,120	1,540	1,400	1,320	1,320	1,960	701	463	364	225
28	429	971	1,240	2,130	1,390	1,290	1,260	1,650	672	468	393	225
29	510	987	1,300	2,410	------	1,370	1,460	1,510	620	453	385	230
30	563	939	880	2,590	------	1,540	1,860	1,470	612	424	374	251
31	588	------	720	2,660	------	1,840	------	1,390	------	388	379	------
TOTAL	23,087	21,004	28,545	30,373	37,916	73,410	54,580	56,280	34,074	15,913	12,097	7,657
MEAN	745	700	921	980	1,354	2,368	1,819	1,815	1,136	513	390	255
MAX	1,220	995	1,730	2,660	2,500	3,880	2,420	2,810	2,030	654	533	389
MIN	385	392	636	450	923	1,290	1,260	1,090	612	388	313	225
CFSM	.86	.81	1.06	1.13	1.56	2.73	2.10	2.09	1.31	.59	.45	.29
IN.	.99	.90	1.22	1.30	1.62	3.15	2.34	2.41	1.46	.68	.52	.33

CAL YR 1973 TOTAL 396,418 MEAN 1,086 MAX 6,430 MIN 222 CFSM 1.25 IN 16.99
WTR YR 1974 TOTAL 394,936 MEAN 1,082 MAX 3,880 MIN 225 CFSM 1.25 IN 16.93

AS THE NUMBER OF STREAMS ON WHICH STREAMFLOW INFORMATION IS LIKELY TO BE DESIRED FAR EXCEEDS THE NUMBER OF STREAM-GAGING STATIONS FEASIBLE TO OPERATE AT ONE TIME, THE GEOLOGICAL SURVEY COLLECTS LIMITED STREAMFLOW DATA AT SITES OTHER THAN STREAM-GAGING STATIONS. WHEN LIMITED STREAMFLOW DATA ARE COLLECTED ON A SYSTEMATIC BASIS OVER A PERIOD OF YEARS FOR USE IN HYDROLOGIC ANALYSES, THE SITE AT WHICH THE DATA ARE COLLECTED IS CALLED A PARTIAL-RECORD STATION. DATA COLLECTED AT THESE PARTIAL-RECORD STATIONS ARE USABLE IN LOW-FLOW OF FLOOD-FLOW ANALYSES, DEPENDING ON THE TYPE OF DATA COLLECTED. IN ADDITION, DISCHARGE MEASUREMENTS ARE MADE AT OTHER SITES NOT INCLUDED IN THE PARTIAL-RECORD PROGRAM. THESE MEASUREMENTS ARE GENERALLY MADE IN TIMES OF DROUGHT OR FLOOD TO GIVE BETTER AREAL COVERAGE TO THOSE EVENTS. THOSE MEASUREMENTS AND OTHERS COLLECTED FOR SOME SPECIAL REASON ARE CALLED MEASUREMENTS AT MISCELLANEOUS SITES.

RECORDS COLLECTED AT PARTIAL-RECORD STATIONS ARE PRESENTED IN TWO TABLES. THE FIRST IS A TABLE OF DISCHARGE MEASUREMENTS AT LOW-FLOW PARTIAL-RECORD STATIONS AND THE SECOND IS A TABLE OF ANNUAL MAXIMUM STAGE AND DISCHARGE AT CREST-STATIONS. DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES FOR BOTH LOW FLOW AND HIGH FLOW ARE GIVEN IN A THIRD TABLE.

LOW-FLOW PARTIAL-RECORD STATIONS

MEASUREMENTS OF STREAMFLOW IN THE AREA COVERED BY THIS REPORT MADE AT LOW-FLOW PARTIAL-RECORD STATIONS ARE GIVEN IN THE FOLLOWING TABLE. MOST OF THESE MEASUREMENTS WERE MADE DURING PERIODS OF BASE FLOW WHEN STREAMFLOW IS PRIMARILY FROM GROUND-WATER STORAGE. THESE MEASUREMENTS, WHEN CORRELATED WITH THE SIMULTANEOUS DISCHARGE OF A NEARBY STREAM WHERE CONTINUOUS RECORDS ARE AVAILABLE, WILL GIVE A PICTURE OF THE LOW-FLOW POTENTIALITY OF THE STREAM. THE COLUMN HEADED "PERIOD OF RECORD" SHOWS THE WATER YEARS IN WHICH MEASUREMENTS WERE MADE AT THE SAME, OR PRACTICALLY THE SAME, SITE. MEASUREMENTS HAVE BEEN MADE AT NUMEROUS OTHER STATIONS THROUGHOUT THE STATE SINCE 1961. THESE MEASUREMENTS ARE PUBLISHED IN PRECEDING WATER RESOURCES DATA FOR WISCONSIN PUBLICATIONS.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT^3/S)
		STREAMS TRIBUTARY TO LAKE SUPERIOR				
04024350	BLACK RIVER NEAR CHAFFEY, WIS.	S 1/2 SEC.19, T.46 N., R.14 W., AT BRIDGE ON STATE HIGHWAY 35, 4.0 MI (6.4 KM) SOUTHEAST OF PATZAU.	D 53.6	1964 1967 1969-74	06-25-74 08-01-74	25.6 2.56
04025000	AMNICON RIVER NEAR POPLAR, WIS.	ON COMMON BOUNDARY OF SECS.29 AND 32, T.48 N., R.12 W., AT BRIDGE ON U.S. HIGHWAY 2, 4.5 MI (7.2 KM) NORTHWEST OF POPLAR.	112	1964 1967 1969-74	06-26-74 07-31-74	45.4 8.88
04025100	MIDDLE RIVER NEAR POPLAR, WIS.	SE 1/4 SEC.12, T.48 N., R.12 W., AT BRIDGE ON STATE HIGHWAY 13, 4.6 MI (7.4 KM) NORTH OF POPLAR.	51.6	1964 1967 1969-74	06-25-74 07-31-74	10.3 3.27
04026030	REEFER CREEK NEAR PORT WING, WIS.	NW 1/4 SEC.4, T.49 N., R.9 W., AT BRIDGE ON STATE HIGHWAY 13, 5.8 MI (9.3 KM) SOUTHWEST OF PORT WING.	D 10.9	1964 1967 1969-74	06-25-74 07-31-74	3.53 3.30
04026120	FLAG RIVER AT PORT WING, WIS.	CENTER OF SEC.28, T.50 N., R.8 W., AT BRIDGE ON STATE HIGHWAY 13, JUST NORTHEAST OF PORT WING.	D 33.9	1964 1967 1969-74	06-25-74 07-31-74	28.7 29.9
04026190	SAND RIVER NEAR RED CLIFF, WIS.	NE 1/4 SEC.14, T.51 N., R.5 W., AT BRIDGE ON STATE HIGHWAY 13, 8.5 MI (13.7 KM) NORTHWEST OF RED CLIFF.	28.2	1964 1967 1969-74	06-25-74 07-31-74	5.26 4.56
04026350	NORTH FISH CREEK NEAR ASHLAND, WIS.	SW 1/4 SEC.2, T.47 N., R.5 W., AT BRIDGE ON U.S. HIGHWAY 2, 3.0 MI (4.8 KM) WEST OF ASHLAND.	D 88.1	1967 1969-74	06-25-74 07-31-74	79.5 76.4
04026500	BAD RIVER AT MELLEN, WIS.	NW 1/4 SEC.6, T.44 N., R.2 W., AT STATE HIGHWAY 13 AT MELLEN.	D 105	1948-55# 1969-74	06-26-74	51.7
04026550	TYLER FORKS RIVER NEAR UPSON, WIS.	SE 1/4 SEC.28, T.45 N., R.1 W., AT CULVERT ON STATE HIGHWAY 77, 4.3 MI (6.9 KM) SOUTHWEST OF UPSON.	41.3	1967 1969-74	06-26-74 07-30-74	15.4 12.8
04026600	MARENGO RIVER NEAR MARENGO, WIS.	NW 1/4 SEC.36, T.46 N., R.4 W., AT BRIDGE ON STATE HIGHWAY 13, 0.2 MI (0.3 KM) NORTH OF MARENGO.	A 101	1967 1969-74	06-25-74 07-30-74	52.2 36.7
04026650	TROUT BROOK NEAR HIGHBRIDGE, WIS.	SW 1/4 SEC.8, T.45 N., R.3 W., AT CULVERT ON STATE HIGHWAY 13, 1.9 MI (3.0 KM) WEST OF HIGHBRIDGE.	D 8.60	1967 1969-74	06-25-74 07-30-74	7.16 2.13
04026900	POTATO RIVER NEAR GURNEY, WIS.	SW 1/4 SEC.16, T.46 N., R.1 W., AT BRIDGE ON STATE HIGHWAY 169, 0.7 MI (1.1 KM) SOUTH OF GURNEY.	A 92.7	1967 1969-74	06-26-74 07-30-74	40.1 18.8
04027900	LAYMAN CREEK NEAR HURLEY, WIS.	NE 1/4 SEC.6, T.44 N., R.3 E., AT BRIDGE ON U.S. HIGHWAY 51, 8.0 MI (12.9 KM) SOUTHEAST OF MONTREAL.	A 17.8	1967 1969-74	06-26-74 07-30-74	4.73 .73

OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
A APPROXIMATELY.
D REVISED.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT³/S)
		STREAMS TRIBUTARY TO LAKE MICHIGAN				
04059800	BRULE CREEK AT ALVIN, WIS.	NW 1/4 SEC.34, T.41 N., R.13 E., AT BRIDGE ON FOREST SERVICE ROAD 2458, 1.6 MI (2.6 KM) NORTHWEST OF ALVIN.	37	1969-74	05-13-74	33.1
04060990	MONTAGNE CREEK NEAR FLORENCE, WIS.	SE 1/4 SW 1/4 SEC.11, T.40 N., R.17 E., AT TOWN ROAD, 4.8 MI (7.7 KM) NORTHWEST OF FLORENCE.	14.4	1969-70 1972-74	05-13-74	11.0
04063600	PINE RIVER NEAR THREE LAKES, WIS.	NW 1/4 SEC.30, T.39 N., R.13 E., AT BRIDGE ON U.S. FOREST SERVICE ROAD 2182, 12.4 MI (20.0 KM) NORTHEAST OF THREE LAKES.	16.2	1966 1969-74	05-13-74	24.3
04063690	SOUTH BRANCH POPPLE RIVER NEAR FENCE, WIS.	SW 1/4 NE 1/4 SEC.25, T.38 N., R.15 E., AT U.S. FOREST SERVICE ROAD 2159, 6.5 MI (10.4 KM) WEST OF FENCE.	10.2	1969 1972-74	05-13-74 06-27-74	14.9 5.42
04065970	SOUTH BRANCH PEMEBOWON RIVER NEAR PEMBINE, WIS.	SE 1/4 SE 1/4 SEC.19, T.37 N., R.20 E., AT COUNTY TRUNK O, 2.8 MI (4.5 KM) NORTHWEST OF PEMBINE.	26.6	1969-70 1972-74	06-27-74	7.81
04067700	NORTH BRANCH PESHTIGO RIVER NEAR ARGONNE, WIS.	NW 1/4 SW 1/4 SEC.24, T.37 N., R.13 E., AT U.S. FOREST SERVICE ROAD 2387, 2.9 MI (4.7 KM) NORTHEAST OF ARGONNE.	32.4	1969 1972-74	05-13-74 06-28-74	34.6 7.69
04067750	CAMP EIGHT CREEK NEAR CAVOUR, WIS.	NE 1/4 NE 1/4 SEC.36, T.37 N., R.14 E., AT COUNTY TRUNK G, 2.3 MI (3.7 KM) WEST OF CAVOUR.	15.0	1969 1972-74	05-13-74 06-28-74	22.5 4.16
04067900	RAT RIVER NEAR WABENO, WIS.	SE 1/4 SEC.28, T.35 N., R.16 E., AT BRIDGE ON U.S. FOREST SERVICE ROAD 2134 8.0 MI (12.9 KM) NORTHEAST OF WABENO.	82.6	1969-70 1972-74	06-27-74	66.7
04067990	EAGLE CREEK NEAR ATHELSTENE, WIS.	ON COMMON BOUNDARY OF SECS.24 AND 25, T.34 N., R.18 E., AT BRIDGE ON COUNTY TRUNK C, 4.5 MI (7.2 KM) SOUTHWEST OF ATHELSTENE.	38.6	1969-70 1972-74	06-27-74	18.4
04068100	NORTH FORK THUNDER RIVER NEAR LAKEWOOD, WIS.	NE 1/4 SEC.23, T.33 N., R.17 E., AT CULVERT ON U.S. FOREST SERVICE ROAD 2101, 9.7 MI (15.6 KM) NORTHEAST OF LAKEWOOD.	20.0	1969-70 1972-74	06-27-74	9.42
04069290	MIDDLE INLET NEAR MIDDLE INLET, WIS.	ON COMMON BOUNDARY OF SECS.30 AND 31, T.33 N., R.21 E., AT BRIDGE ON COUNTY TRUNK X, 2.7 MI (4.3 KM) EAST OF MIDDLE INLET.	56.9	1968-70 1973-74	06-26-74	37.6
04069350	SOUTH BRANCH BEAVER CREEK NEAR BEAVER, WIS.	SW 1/4 NE 1/4 SEC.28, T.31 N., R.20 E., AT U.S. HIGHWAY 141, 0.5 MI (0.8 KM) SOUTH OF BEAVER.	53.9	1969 1972-74	06-26-74 09-30-74	27.6 34.4
04069390	LITTLE PESHTIGO RIVER NEAR COLEMAN, WIS.	SE 1/4 SW 1/4 SEC.18, T.30 N., R.21 E., AT COUNTY TRUNK B, 1.9 MI (3.0 KM) EAST OF COLEMAN.	49.9	1969 1972-74	06-26-74 09-30-74	17.0 13.9
04069480	TROUT CREEK NEAR PESHTIGO, WIS.	ON COMMON BOUNDARY OF SECS.23 AND 24, T.30 N., R.22 E., AT BRIDGE, 1.5 MI (2.4 KM) WEST OF PESHTIGO.	24.3	1969-74	06-26-74 09-30-74	8.14 2.42
04070100	NORTH BRANCH OCONTO RIVER NEAR MOUNTAIN, WIS.	ON COMMON BOUNDARY OF SECS.23 AND 26, T.31 N., R.16 E., AT BRIDGE ON U.S. FOREST SERVICE ROAD 2106, 3.2 MI (5.1 KM) NORTH OF MOUNTAIN.	178	1969-70 1972-74	06-26-74	123
04070300	WAUPEE RIVER NEAR MOUNTAIN, WIS.	SW 1/4 SEC.30, T.31 N., R.17 E., AT BRIDGE ON STATE HIGHWAY 32, 4.2 MI (6.8 KM) SOUTHEAST OF MOUNTAIN.	47.9	1969-70 1972-74	06-26-74	27.3
04070600	HILLS POND CREEK NEAR LANGLADE, WIS.	SE 1/4 SEC.4, T.31 N., R.15 E., AT BRIDGE ON STATE HIGHWAY 64, 5.5 MI (8.8 KM) EAST OF LANGLADE.	9.15	1969-70 1972-74	06-25-74	11.5

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT³/S)
		STREAMS TRIBUTARY TO LAKE MICHIGAN--CONTINUED				
04070800	PECORE CREEK NEAR HAYES, WIS.	NE 1/4 SEC.8, T.29 N., R.17 E., AT CULVERT ON COUNTRY ROAD, 1.2 MI (1.9 KM) NORTHWEST OF HAYES.	30.4	1969-70 1972-74	06-26-74	25.3
04071730	KELLY BROOK NEAR LENA, WIS.	SE 1/4 NW 1/4 SEC.22, T.29 N., R.20 E., AT U.S. HIGHWAY 141, 1.5 MI (2.4 KM) NORTH OF LENA.	79.6	1969 1972-74	06-26-74	20.4
04072000	SUAMICO RIVER AT SUAMICO, WIS.	NW 1/4 SEC.22, T.25 N., R.20 E., AT BRIDGE ON COUNTY TRUNK B, 0.5 MI (0.8 KM) WEST OF SUAMICO, 7.5 MI (12.1 KM) NORTH OF GREEN BAY AND 3.0 MI (5.0 KM) UPSTREAM FROM MOUTH.	57.0	1969 1972-74	06-27-74	8.00
04072050	DUCK CREEK NEAR ONEIDA, WIS.	SE 1/4 SEC.17, T.23 N., R.19 E., AT BRIDGE ON COUNTRY ROAD, 2.9 MI (4.7 KM) SOUTHWEST OF ONEIDA.	92.2	1968-70 1972-74	06-27-74	8.71
04073900	EIGHTMILE CREEK AT FISH, WIS.	SW 1/4 SEC.11, T.17 N., R.15 E., AT BRIDGE ON COUNTY TRUNK FF AT FISH.	22.8	1969-70 1973-74	09-24-74	<0.01
04076000	WEST BRANCH WOLF RIVER AT NEOPIT, WIS.	NE 1/4 SEC.20, T.29 N., R.14 E., IN NEOPIT.	108	1969-70 1972-74	06-26-74 07-23-74	85.1 87.6
04076400	LITTLE WEST BRANCH NEAR NEOPIT, WIS.	NW 1/4 SEC.11, T.29 N., R.14 E., AT CULVERT ON COUNTY TRUNK M, 3.8 MI (6.1 KM) NORTHEAST OF NEOPIT.	21.1	1969-70 1972-74	06-26-74	8.75
04078050	SHIOC RIVER AT NICHOLS, WIS.	SW 1/4 SEC.7, T.24 N., R.17 E., AT BRIDGE ON STATE HIGHWAY 156, 0.8 MI (1.3 KM) WEST OF NICHOLS.	92.0	1968-70 1972-74	06-25-74 07-24-74	26.3 11.1
04078055	BLACK CREEK AT BLACK CREEK, WIS.	NE 1/4 SEC.8, T.23 N., R.17 E., AT BRIDGE ON STATE HIGHWAY 47, 0.3 MI (0.5 KM) NORTH OF BLACK CREEK.	55.9	1969-74	06-25-74 07-24-74	16.7 1.36
04078080	BEAR CREEK AT STEPHENSVILLE, WIS.	NE 1/4 SEC.20, T.22 N., R.16 E., AT BRIDGE ON STATE HIGHWAY 76, AT STEPHENSVILLE.	59.4	1969-74	06-25-74	22.8
04078490	MILL CREEK NEAR PELLA, WIS.	NW 1/4 SEC.12, T.26 N., R.14 E., AT BRIDGE ON COUNTRY ROAD, 2.8 MI (4.5 KM) EAST OF PELLA.	23.1	1969-70 1972-74	06-26-74	19.1
04078600	NORTH BRANCH PIGEON RIVER NEAR MARION, WIS.	NE 1/4 SEC.5, T.25 N., R.13 E., AT FARM BRIDGE, 2.8 MI (4.5 KM) WEST OF MARION.	10.8	1969-74	06-26-74	5.25
04078800	BEAR CREEK NEAR SUGAR BUSH, WIS.	SE 1/4 SEC.5, T.23 N., R.15 E., AT BRIDGE ON COUNTRY ROAD, 1.9 MI (3.0 KM) NORTHEAST OF SUGAR BUSH.	26.3	1969-70 1972-74	06-27-74	6.07
04079600	LITTLE WOLF RIVER AT GALLOWAY, WIS.	SW 1/4 SW 1/4 SEC.23, T.26 N., R.10 E., AT STATE HIGHWAY 49, 0.2 MI (0.3 KM) NORTH OF GALLOWAY.	22.5	1962-67 1972 1974	07-11-74 08-08-74	6.07 4.15
*04081000	WAUPACA RIVER NEAR WAUPACA, WIS.	ON NORTH LINE OF SEC.1, T.21 N., R.12 E., ON RIGHT BANK 10 FT (3.0 M) DOWNSTREAM FROM HIGHWAY BRIDGE, 4.0 MI (6.4 KM) UPSTREAM FROM WEYAUWEGA LAKE DAM, 4.5 MI (7.2 KM) SOUTHEAST OF WAUPACA.	272	1962-64 B 1964-66 C 1966-70 1972-74	06-27-74	246
04081400	ALDER CREEK NEAR FREMONT, WIS.	ON COMMON BOUNDARY OF SECS.20 AND 29, T.20 N., R.14 E., AT BRIDGE ON COUNTY TRUNK H, 5.1 MI (8.2 KM) SOUTH OF FREMONT.	14.1	1969-70 1974	06-27-74	1.58
04081800	DAGGETS CREEK NEAR BUTTE DES MORTS, WIS.	SW 1/4 SEC.20, T.19 N., R.16 E., AT BRIDGE ON COUNTRY ROAD, 1.5 MI (2.4 KM) EAST OF BUTTE DES MORTS.	10.3	1969-70 1974	06-25-74 09-24-74	1.02 0
04085070	ASHWAUBENON CREEK NEAR DE PERE, WIS.	ON COMMON BOUNDARY OF LAND GRANTS 28 AND 29, T.23 N., R.20 E., AT CULVERTS ON COUNTY TRUNK G, 0.5 MI (0.8 KM) WEST OF DE PERE.	25.2	1969-70 1972-74	06-27-74	.86

* ALSO A CREST-STAGE STATION.
B OPERATED AS A SEASONAL CONTINUOUS-RECORD GAGING STATION.
C OPERATED AS A SEASONAL CONTINUOUS-RECORD GAGING STATION WITHOUT RECORDS BEING PUBLISHED.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT^3/S)
		STREAMS TRIBUTARY TO LAKE MICHIGAN--CONTINUED				
04085110	EAST RIVER NEAR DE PERE, WIS.	SE 1/4 SEC.3, T.22 N., R.20 E., AT BRIDGE ON STATE HIGHWAY 32, 2.5 MI (4.0 KM) SOUTH OF DE PERE.	58.4	1969-70 1972-74	06-27-74	9.67
04085170	HIBBARD CREEK AT JACKSONPORT, WIS.	SE 1/4 SEC.14, T.29 N., R.27 E., AT CULVERT ON STATE HIGHWAY 57, 0.8 MI (1.3 KM) NORTHEAST OF JACKSONPORT.	22.5	1969-70 1972-74	11-14-73 06-26-74	5.11 16.1
04085180	STONEY CREEK NEAR ALGOMA, WIS.	NW 1/4 SEC.5, T.25 N., R.26 E., AT BRIDGE ON COUNTY TRUNK U, 5.5 MI (8.8 KM) NORTHEAST OF ALGOMA.	24.8	1969-70 1972-74	11-14-73 06-26-74	10.4 10.3
04085190	SILVER CREEK NEAR ALGOMA, WIS.	NE 1/4 SEC.19, T.25 N., R.25 E., AT BRIDGE ON COUNTY TRUNK D, 3.5 MI (5.6 KM) NORTHWEST OF ALGOMA.	58.0	1969-70 1972-74	11-14-73 06-27-74	20.0 13.3
04085280	EAST TWIN RIVER AT MISHICOT, WIS.	NW 1/4 SEC.4, T.20 N., R.24 E., AT BRIDGE ON STATE HIGHWAY 147, AT MISHICOT.	109	1969-70 1972-74	11-14-73	44.2
04085330	WEST TWIN RIVER NEAR FRANCIS CREEK, WIS.	SW 1/4 SEC.7, T.20 N., R.24 E., AT BRIDGE ON COUNTY TRUNK Q, 2.3 MI (3.7 KM) NORTHEAST OF FRANCIS CREEK.	146	1969-70 1972-74	11-14-73 06-26-74	42.5 50.8
04085390	SOUTH BRANCH MANITOWOC RIVER NEAR CHILTON, WIS.	NW 1/4 SEC.17, T.18 N., R.20 E., AT BRIDGE ON COUNTRY ROAD, 1.1 MI (1.8 KM) NORTHEAST OF CHILTON.	75.2	1969-74	06-25-74	37.0
*04085400	KILLSNAKE RIVER NEAR CHILTON, WIS.	E 1/2 SEC.6, T.18 N., R.20 E., AT BRIDGE ON COUNTRY ROAD, 2.4 MI (3.9 KM) NORTHEAST OF CHILTON.	29.5	1963-67 1969-74	06-26-74 09-04-74	7.37 2.32
04085410	MUD CREEK NEAR REEDSVILLE, WIS.	SW 1/4 SEC.2, T.19 N., R.21 E., AT BRIDGE ON COUNTRY ROAD, 1.0 MI (1.6 KM) SOUTH OF REEDSVILLE.	38.7	1969-70 1972-74	11-13-73 06-26-74	6.98 10.9
04085420	BRANCH RIVER NEAR CATO, WIS.	SE 1/4 SEC.22, T.20 N., R.22 E., AT BRIDGE ON COUNTRY ROAD, 3.3 MI (5.3 KM) NORTH OF CATO.	80.7	1969-70 1972-74	06-26-74 09-05-74	26.1 5.64
04085460	PIGEON RIVER NEAR MILLERSVILLE, WIS.	SW 1/4 SEC.6, T.15 N., R.23 E., AT BRIDGE ON COUNTRY ROAD, 2.1 MI (3.4 KM) SOUTHEAST OF MILLERSVILLE.	66.1	1969-70 1972-74	11-13-73 06-25-74 09-24-74	17.2 16.0 3.42
04085800	ONION RIVER NEAR WALOO, WIS.	ON COMMON BOUNDARY OF SECS.10 AND 11, T.14 N., R.21 E., AT BRIDGE ON COUNTY TRUNK AC, 1.4 MI (2.2 KM) NORTHWEST OF WALDO.	18.2	1969-70 1972-74	11-13-73 06-25-74	18.6 15.1
		ST. CROIX RIVER BASIN				
05331590	LOWER OX CREEK NEAR GORDON, WIS.	NE 1/4 SE 1/4 SEC.16, T.44 N., R.11 W., AT TOWN ROAD, 4.6 MI (7.4 KM) NORTHEAST OF GORDON.	99.4	1969-74	06-26-74 07-23-74	19.2 16.0
05331700	MOOSE RIVER NEAR SOLON SPRINGS, WIS.	ON COMMON BOUNDARY OF SECS.14 AND 23, T.44 N., R.13 W., AT BRIDGE ON COUNTY TRUNK M, 7.8 MI (12.6 KM) SOUTHWEST OF SOLON SPRINGS.	49.9	1964 1967 1969-74	06-26-74 07-23-74	9.28 3.47
05331900	CHIPPANAZIE CREEK AT STANBERRY, WIS.	NW 1/4 SEC.33, T.41 N., R.10 W., AT CULVERT ON U.S. HIGHWAY 63, 0.8 MI (1.3 KM) SOUTHWEST OF STANBERRY.	A 33.8	1964 1967 1969-74	06-25-74 07-24-74	12.0 6.25
05331950	BEAN BROOK NEAR SPRING BROOK, WIS.	NE 1/4 SEC.1, T.39 N., R.11 W., AT CULVERT ON COUNTY TRUNK M, 3.5 MI (5.6 KM) SOUTHEAST OF SPRING BROOK.	A 38.1	1964 1967 1969-74	06-25-74 07-24-74	34.2 31.6
05332700	STUNTZ BROOK NEAR MINONG, WIS.	SW 1/4 SEC.23, T.41 N., R.13 W., AT CULVERT ON COUNTY TRUNK F, 8.8 MI (14.2 KM) SOUTHWEST OF MINONG.	18.2	1964 1967 1969-74	06-25-74 07-24-74	4.25 2.84

* ALSO A CREST-STAGE STATION.
A APPROXIMATELY.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT^3/S)
		ST. CROIX RIVER BASIN--CONTINUED				
05333060	OUNCE RIVER NEAR GORDON, WIS.	SW 1/4 SEC.30, T.43 N., R.10 W., AT BRIDGE ON COUNTRY ROAD, 7.8 MI (12.6 KM) SOUTHEAST OF GORDON.	A 41.7	1964 1967 1969-74	06-26-74 07-23-74	22.7 16.5
05333080	FROG CREEK NEAR MINONG, WIS.	NW 1/4 SEC.20, T.42 N., R.11 W., AT BRIDGE ON COUNTRY ROAD, 2.4 MI (3.9 KM) NORTHEAST OF MINONG.	A 31.7	1964 1967 1969-74	06-26-74 07-23-74	8.68 15.7
*05333100	LITTLE FROG CREEK NEAR MINONG, WIS.	NW 1/4 SEC.29, T.42 N., R.11 W., AT CULVERT ON COUNTRY ROAD, 2.5 MI (4.0 KM) EAST OF MINONG.	13.6	1961 1963-74	06-26-74 07-23-74	3.58 1.23
05333510	CHASES BROOK NEAR DANBURY, WIS.	NE 1/4 SEC.32, T.42 N., R.15 W., AT BRIDGE ON COUNTRY ROAD, 7.0 MI (11.3 KM) NORTHEAST OF DANBURY.	A 38.0	1964 1967 1969-74	06-25-74 07-24-74	12.4 5.93
05334500	YELLOW RIVER AT WEBSTER, WIS.	ON COMMON BOUNDARY OF SECS.4 AND 5, T.39 N., R.16 W., AT BRIDGE ON STATE HIGHWAY 35, 1.3 MI (2.1 KM) NORTH OF WEBSTER.	228	1914# 1964 1967 1969-74	06-25-74 07-25-74	172 188
05338900	WOOD RIVER NEAR SIREN, WIS.	ON COMMON BOUNDARY OF SECS.27 AND 28, T.38 N., R.17 W., AT BRIDGE ON COUNTRY ROAD, 4.8 MI (7.7 KM) SOUTHWEST OF SIREN.	26.8	1964 1967 1969-74	06-25-74 07-25-74	2.65 .59
05338950	NORTH FORK WOOD RIVER NEAR GRANTSBURG, WIS.	E 1/2 SEC.8, T.38 N., R.18 W., AT BRIDGE ON COUNTRY ROAD, 3.5 MI (5.6 KM) NORTHEAST OF GRANTSBURG.	67.3	1964 1967 1969-74	06-25-74 07-25-74	39.0 6.62
05340400	WOLF CREEK NEAR ST. CROIX FALLS, WIS.	SE 1/4 SEC.33, T.36 N., R.19 W., AT BRIDGE ON COUNTY TRUNK G, 11 MI (17.7 KM) NORTHWEST OF ST. CROIX FALLS.	29.3	1964 1967 1969-74	06-25-74 07-23-74	11.5 5.25
		CHIPPEWA RIVER BASIN				
05355370	MOOSE RIVER NEAR CLAM LAKE, WIS.	SW 1/4 SEC.34, T.42 N., R.4 W., COUNTY TRUNK GG, 6.1 MI (9.8 KM) SOUTHEAST OF CLAM LAKE.	23.9	1969-72 1974	06-24-74 07-24-74 09-05-74	14.1 .29 4.77
05355420	HAY CREEK NEAR HAYWARD, WIS.	SW 1/4 SEC.31, T.41 N., R.6 W., AT CULVERT ON COUNTRY ROAD, 15 MI (24 KM) EAST OF HAYWARD.	A 14.9	1967 1970-72 1974	06-24-74 07-24-74 09-05-74	11.9 8.79 8.03
05355530	EAST FORK CHIPPEWA RIVER NEAR GLIDDEN, WIS.	ON COMMON BOUNDARY OF SECS.12 AND 13, T.42 N., R.2 W., AT BRIDGE ON STATE HIGHWAY 13, 0.7 MI (1.1 KM) SOUTHEAST OF GLIDDEN.	A 94.6	1967 1970-74	06-26-74 07-24-74 09-04-74	63.1 69.6 44.9
05357350	LOST CREEK NEAR POWELL, WIS.	SE 1/4 SEC.27, T.42 N., R.4 E., AT BRIDGE ON STATE HIGHWAY 47, 1.0 MI (1.6 KM) WEST OF POWELL.	14.5	1967 1969 1972-74	06-27-74 07-23-74 09-04-74	16.2 9.25 11.6
05359100	SPRINGSTEAD CREEK NEAR PARK FALLS, WIS.	SE 1/4 SEC.16, T.40 N., R.3 E., AT BRIDGE ON FOREST ROAD NO. 147, 16 MI (26 KM) EAST OF PARK FALLS.	A 21.4	1967 1970-72 1974	06-26-74 09-04-74	17.4 10.4
05359350	ELK RIVER NEAR PHILLIPS, WIS.	ON COMMON BOUNDARY OF SECS.33 AND 34, T.38 N., R.2 E., AT BRIDGE ON COUNTY TRUNK H, 8.9 MI (14.3 KM) NORTHEAST OF PHILLIPS.	A 42.1	1967 1970-72 1974	06-26-74 07-23-74 09-04-74	15.4 6.66 8.89
		BLACK RIVER BASIN				
05381350	LEVIS CREEK NEAR BLACK RIVER FALLS, WIS.	SE 1/4 SEC.12, T.21 N., R.4 W., AT BRIDGE ON STATE HIGHWAY 54, 2.2 MI (3.5 KM) NORTHEAST OF BLACK RIVER FALLS.	39.7	1964 1966-70 1974	10-03-73	18.4

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A APPROXIMATELY.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1974

STATION	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT³/S)
		WISCONSIN RIVER BASIN				
05390140	MUSKRAT CREEK AT CONOVER, WIS.	SE 1/4 SW 1/4 SEC.4, T.41 N., R.8 E., AT U.S.HIGHWAY 45, AT CONOVER.	9.95	1969-70 1972-74	05-14-74 07-25-74	12.1 10.9
05390180	WISCONSIN RIVER AT CONOVER, WIS.	NE 1/4 SEC.8, T.41 N., R.10 E., AT BRIDGE ON COUNTY TRUNK K, 0.5 MI (0.8 KM) DOWNSTREAM FROM POINEER CREEK AND 0.6 MI (1.0 KM) SOUTHWEST OF CONOVER.	176	1967-71# 1973-74	05-14-74 07-25-74	184 165
05390450	DEERSKIN RIVER NEAR EAGLE RIVER, WIS.	NW 1/4 SW 1/4 SEC.25, T.41 N., R.11 E., AT U.S. FOREST SERVICE ROAD 2178, 10.5 MI (16.9 KM) NORTHEAST OF EAGLE RIVER.	32.5	1969-70 1972-74	05-14-74 07-26-74	20.8 23.0
05391200	MONICO CREEK NEAR MONICO, WIS.	SW 1/4 NW 1/4 SEC.29, T.36 N., R.11 E., AT U.S. HIGHWAY 45, 0.3 MI (0.5 KM) NORTHEAST OF MONICO.	19.8	1969-70 1972-74	05-14-74 07-26-74	28.4 12.3
05391250	GUDEGAST CREEK NEAR RHINELANDER, WIS.	NE 1/4 SE 1/4 SEC.9, T.37 N., R.10 E., AT TOWN ROAD, 9.5 MI (15.3 KM) NORTHEAST OF RHINELANDER.	11.3	1969-70 1972-74	10-03-73 05-14-74	6.76 16.2
05391900	NOISY CREEK NEAR RHINELANDER, WIS.	SW 1/4 SW 1/4 SEC.36, T.36 N., R.8 E., AT STATE HIGHWAY 17, 6.0 MI (9.6 KM) SOUTHWEST OF RHINELANDER.	36.8	1969-70 1972-74	10-03-73 05-14-74	22.8 50.7
05392290	WILLOW RIVER NEAR HAZELHURST, WIS.	SE 1/4 SEC.19, T.38 N., R.4 E., AT CULVERT ON COUNTRY ROAD, 14.9 MI (24.0 KM) WEST OF HAZELHURST.	7.97	1969-74	06-26-74	5.23
05392320	ROCKY RUN CREEK NEAR GOODNOW, WIS.	SE 1/4 SEC.17, T.37 N., R.6 E., ON COUNTRY ROAD, 4.3 MI (6.9 KM) WEST OF GOODNOW.	20.3	1969-74	06-27-74 07-25-74	22.5 21.3
05392450	LITTLE RICE RIVER NEAR BRADLEY, WIS.	NE 1/4 SEC.23, T.36 N., R.5 E., AT CULVERT ON KELLY FIRE LANE, 5.4 MI (8.7 KM) NORTHWEST OF BRADLEY.	25.9	1969-74	06-27-74	11.0
05393200	SOMO RIVER (E) NEAR TRIPOLI, WIS.	NW 1/4 SEC.10, T.35 N., R.4 E., AT BRIDGE ON COUNTY TRUNK T, 1.8 MI (2.9 KM) SOUTHEAST OF TRIPOLI.	A 44.1	1967 1969-74	06-27-74	7.16
05393630	LITTLE PINE CREEK NEAR TOMAHAWK, WIS.	ON COMMON BOUNDARY OF SECS.31 AND 32, T.34 N., R.7 E., AT CULVERTS ON COUNTY TRUNK V, 6.5 MI (10.4 KM) SOUTHEAST OF TOMAHAWK.	21.1	1967 1969-74	10-03-73 06-27-74	10.9 5.69
*05404200	NARROWS CREEK AT LOGANVILLE, WIS.	SE 1/4 SEC.8, T.11 N., R.4 E., AT BRIDGE ON STATE HIGHWAY 23 AND 154, AND 0.25 MI (0.40 KM) NORTH OF LOGANVILLE.	40.0	1961 1963 1964-66# C 1967 1973-74	10-25-73	13.4

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A APPROXIMATELY.
C OPERATED AS A SEASONAL CONTINUOUS-RECORD GAGING STATION WITHOUT RECORDS BEING PUBLISHED.
E FORMERLY PUBLISHED AS BIG SOMO RIVER.

CREST-STAGE PARTIAL-RECORD STATIONS

THE FOLLOWING TABLE CONTAINS ANNUAL MAXIMUM DISCHARGES FOR CREST-STAGE STATIONS. A CREST-STAGE GAGE IS A DEVICE WHICH WILL REGISTER THE PEAK STAGE OCCURRING BETWEEN INSPECTIONS OF THE GAGE. A STAGE-DISCHARGE RELATION FOR EACH GAGE IS DEVELOPED FROM DISCHARGE MEASUREMENTS MADE BY INDIRECT MEASUREMENTS OF PEAK FLOW OR BY CURRENT METER. THE DATE OF THE MAXIMUM DISCHARGE IS NOT ALWAYS CERTAIN BUT IS USUALLY DETERMINED BY COMPARISON WITH NEARBY CONTINUOUS-RECORD STATIONS, WEATHER RECORDS, OR LOCAL INQUIRY. ONLY THE MAXIMUM DISCHARGE FOR EACH WATER YEAR IS GIVEN. INFORMATION ON SOME LOWER FLOODS MAY HAVE BEEN OBTAINED BUT IS NOT PUBLISHED HEREIN. THE YEARS GIVEN IN THE PERIOD OF RECORD REPRESENT WATER YEARS FOR WHICH THE ANNUAL MINIMUM HAS BEEN DETERMINED.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		STREAMS TRIBUTARY TO LAKE SUPERIOR					
04024400	STONY BRDOK NEAR SUPERIOR, WIS.	SE 1/4 SEC.4, T.47 N., R.14 W., AT BOX CULVERT ON STATE HIGHWAY 35, 12.5 MI (20.1 KM) SOUTH OF TOLL BRIDGE ON U.S. HIGHWAYS 2 AND 35 AT ST. LOUIS RIVER IN SUPERIOR.	2.20	1959-74	06-10-74	16.16	243
04025200	PEARSON CREEK NEAR MAPLE, WIS.	COMMDN BOUNDARY OF SECS.11 AND 14, T.48 N., R.11 W., AT BOX CULVERT ON STATE HIGHWAY 13, 4 MI (6.4 KM) NORTH OF MAPLE.	4.01	1957-74	06-10-74	12.17	220
04026200	SAND RIVER TRIBUTARY NEAR RED CLIFF, WIS.	NE 1/4 SEC.14, T.51 N., R.5 W., AT BOX CULVERT ON STATE HIGHWAY 13, 8 MI (12.9 KM) NORTHWEST OF RED CLIFF.	1.14	1959-74	04-17-74	11.34	120
*04026300	SIOUX RIVER NEAR WASHBURN, WIS.	NE 1/4 SEC.35, T.49 N., R.5 W., ON COUNTY TRUNK C, 2.5 MI (4.0 KM) WEST OF WASHBURN.	D 35.2	1959-65 1966# 1967-74	06-10-74	13.73	770
*04026400	SPILLERBERG CREEK NEAR CAYUGA, WIS.	NW 1/4 SEC.21, T.43 N., R.2 W., AT CONCRETE CULVERT PIPE DN STATE HIGHWAY 13, 4.2 MI (6.8 KM) SOUTHEAST OF CAYUGA.	6.18	1958-74	04-17-74	12.15	90
04026700	TROUT BROOK TRIBUTARY NEAR MARENGO, WIS.	NE 1/4 SEC.7, T.45 N., R.3 W., AT BOX CULVERT ON STATE HIGHWAY 13, 2.6 MI (4.2 KM) SOUTHEAST OF MARENGD.	.77	1960-74	06-10-74	12.06	195
04026850	APPLE CREEK NEAR UPSON, WIS.	SE 1/4 SEC.30, T.45 N., R.1 E., AT 2-BARREL CORRUGATED CULVERT ON GRAVELED O'BRIEN LAKE ROAD, 1.5 MI (2.4 KM) SOUTH OF UPSON.	5.39	1970-74	06-10-74	12.47	80
*04027200	PEARL CREEK AT GRANDVIEW, WIS.	NE 1/4 SEC.22, T.45 N., R.6 W., AT BOX CULVERT ON U.S. HIGHWAY 63, 0.8 MI (1.3 KM) EAST OF GRANDVIEW.	E 16.9	1960-74	06-10-74	11.03	120
*04029700	BOOMER CREEK NEAR SAXON, WIS.	N 1/2 SEC.3, T.46 N., R.1 E., AT CONCRETE CULVERT PIPE ON U.S. HIGHWAY 2, 3 MI (4.8 KM) EAST OF SAXON.	5.94	1958-73		C	
		STREAMS TRIBUTARY TO LAKE MICHIGAN					
*04059900	ALLEN CREEK TRIBUTARY NEAR ALVIN, WIS.	NORTH BOUNDARY SEC.7, T.40 N., R.14 E., AT CULVERT ON STATE HIGHWAY 70, 2.2 MI (3.5 KM) SOUTHEAST OF ALVIN.	A 1.9	1960-74	04-13-74	10.32	7
04063640	NORTH BRANCH PINE RIVER AT WINDSOR DAM NEAR ALVIN, WIS.	SE 1/4 SEC.21, T.40 N., R.13 E., AT BRIDGE ON COUNTRY ROAD AT WINDSDR DAM 3.8 MI (6.1 KM) UPSTREAM FROM CONFLUENCE OF NORTH AND SOUTH FORKS, 4 MI (6.4 KM) SOUTHWEST OF ALVIN.	29.4	1967-68# 1970-74	04-13-74	3.15	110
04063688	SOUTH BRANCH POPPLE RIVER NEAR NEWALD, WIS.	NW 1/4 SEC.26, T.38 N., R.15 E., AT CORRUGATED TWIN BARREL CULVERT ON UNMARKED GRAVEL FOREST ROAD 2159, 5.4 MI (8.7 KM) EAST OF NEWALD.	8.44	1970-74	09-10-74	11.31	35

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
A APPROXIMATELY.
C GAGE NOT OPERATING.
D INCLUDES 20.3 SQ MI WITHOUT SURFACE DRAINAGE.
E INCLUDES 6.4 SQ MI WITHOUT SURFACE DRAINAGE.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		STREAMS TRIBUTARY TO LAKE MICHIGAN--CONTINUED					
*04063800	WOODS CREEK NEAR FENCE, WIS.	SE 1/4 SEC.29, T.39 N., R.17 E., AT BOX CULVERT ON STATE HIGHWAY 101, 6 MI (9.7 KM) NORTH OF FENCE.	41.4	1958-74	04-24-74	10.42	160
04064800	LITTLE POPPLE RIVER NEAR AURORA, WIS.	SW 1/4 SEC.1, T.38 N., R.18 E., AT 3-BARREL CORRUGATED CULVERT ON COUNTY TRUNK HIGHWAY N, 5.5 MI (8.8 KM) WEST OF AURORA.	35.0	1970-74	09-10-74	12.01	220
04066300	COLE CREEK NEAR DUNBAR, WIS.	SOUTH BOUNDARY SEC.34, T.37 N., R.19 E., AT CULVERT ON U.S. HIGHWAY 8, 3.6 MI (5.8 KM) SOUTHEAST OF DUNBAR.	A 3.2	1960-74	09-10-74	10.50	20
04066700	MC CALL CREEK AT WAUSAUKEE, WIS.	NW 1/4 SEC.1, T.33 N., R.20 E., AT CULVERT ON U.S. HIGHWAY 141, 1 MI (1.6 KM) SOUTH OF WAUSAUKEE.	1.48	1959-74	10-11-73	10.96	13
04067500	MENOMINEE RIVER NEAR MCALLISTER, WIS.	SEC. 17, T.33 N., R.23 E., 300 FT ABOVE HIGHWAY BRIDGE ON COUNTY TRUNK JJ, 2.9 MI (4.7 KM) EAST OF MC ALLISTER.	A 4020	1945-61# 1962-74	04-15-74	13.96	13000
04067760	PESHTIGO RIVER NEAR CAVOUR, WIS.	SW 1/4 SEC.29, T.37 N., R.15 E., AT BRIDGE ON U.S. HIGHWAY 8, 0.7 MI (1.1 KM) NORTHWEST OF CAVOUR.	153	1970-74	08-03-74	12.15	600
*04067800	ARMSTRONG CREEK NEAR ARMSTRONG, WIS.	W 1/2 SEC.27, T.37 N., R.16 E., AT BRIDGE ON U.S. HIGHWAY 8, 1.8 MI (2.9 KM) NORTHWEST OF ARMSTRONG CREEK.	23.1	1958-74	04-12-74	9.92	81
04069700	NORTH BRANCH OCONTO RIVER NEAR WABENO, WIS.	SW 1/4 SEC.9, T.34 N., R.15 E., AT PIPE ARCH CULVERT ON COUNTY TRUNK HIGHWAY C, 0.6 MI (1.0 KM) EAST OF INTERSECTION WITH STATE HIGHWAY 32 IN WABENO.	32.2	1970-74	04-12-74	11.47	97
04071700	NORTH BRANCH LITTLE RIVER NEAR COLEMAN, WIS.	ON COMMON BOUNDARY OF SECS.2 AND 3, T.29 N., R.20 E., AT BRIDGE ON U.S. HIGHWAY 141, 3.8 MI (6.1 KM) SOUTH OF COLEMAN.	23.3	1958-74	04-13-74	12.25	170
*04071800	PENSAUKEE RIVER NEAR PULASKI, WIS.	NE 1/4 SEC.1, T.26 N., R.18 E., AT BRIDGE ON STATE HIGHWAY 32 AND 6.1 MI (9.8 KM) NORTH OF PULASKI.	41.8	1961-74	03-05-74	12.7	440
*04073400	BIRD CREEK AT WAUTOMA, WIS.	S 1/2 SEC.34, T.19 N., R.10 E., AT CONCRETE CULVERT ON STATE HIGHWAY 21, 0.2 MI (0.3 KM) WEST OF WAUTOMA.	3.59	1959-74	03-03-74	12.31	115
04074300	MUD CREEK NEAR NASHVILLE, WIS.	SW 1/4 SEC.30, T.36 N., R.12 E., AT CONCRETE CIRCULAR CULVERT ON U.S. HIGHWAY 8, 3.5 MI (5.6 KM) NORTH OF NASHVILLE.	10.0	1970-74	04-13-74	11.69	39
*04074700	HUNTING RIVER NEAR ELCHO, WIS.	N 1/2 SEC.24, T.34 N., R.10 E., AT TWIN CULVERTS ON U.S. HIGHWAY 45 AND STATE HIGHWAY 47, 1.5 MI (2.4 KM) SOUTH OF ELCHO.	A 9.0	1958-74	04-12-74	11.68	63
*04074850	LILY RIVER NEAR LILY, WIS.	SE 1/4 SEC.11, T.33 N., R.13 E., AT CULVERT ON COUNTY TRUNK HIGHWAY A, 3.2 MI (5.1 KM) NORTH FROM JUNCTION OF STATE HIGHWAYS 55 AND 52 IN LILY.	52.4	1970-74	04-12-74	10.69	114
*04075200	EVERGREEN CREEK NEAR LANGLADE, WIS.	NW 1/4 SEC.18, T.31 N., R.14 E., AT CULVERT ON STATE HIGHWAY 64, 3.5 MI (5.6 KM) SOUTHWEST OF LANGLADE.	A 8.0	1959-65 1966-72# 1973-74	04-12-74	10.58	35
*04079700	SPAULDING CREEK NEAR BIG FALLS, WIS.	ON COMMON BOUNDARY OF SECS.14 AND 15, T.25 N., R.12 E., AT CULVERT ON COUNTY TRUNK E, 1.5 MI (2.4 KM) NORTH OF BIG FALLS.	A 4.9	1959-65 1966# 1967-74	04-13-74	11.10	66
04081010	WAUPACA RIVER TRIBUTARY NEAR WAUPACA, WIS.	NW 1/4 SEC.1, T.21 N., R.12 E., AT CULVERT ON U.S. HIGHWAY 10, 5 MI (8.0 KM) SOUTHEAST OF WAUPACA.	A 1.0	1960-74	04-14-74	13.1	50

* ALSO A LOW-FLOW PARTIAL-RECORD STATION
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
A APPROXIMATELY.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		STREAMS TRIBUTARY TO LAKE MICHIGAN--CONTINUED					
04081900	SAWYER CREEK AT OSHKOSH, WIS.	SW 1/4 SEC.15, T.18 N., R.16 E., AT BRIDGE ON U.S. HIGHWAY 41, 1 MI (1.6 KM) SOUTHWEST OF ALGOMA STREET FOX RIVER BRIDGE IN OSHKOSH.	15.3	1961-74	04-14-74	11.80	375
04083400	EAST BRANCH FOND OÜ LAC RIVER TRIBUTARY NEAR EDEN, WIS.	NE 1/4 SEC.14, T.14 N., R.17 E., AT CULVERT ON U.S. HIGHWAY 41, 3 MI (4.8 KM) WEST OF EDEN.	1.19	1961-74	04-14-74	11.90	80
*04085030	APPLE CREEK NEAR KAUKAUNA, WIS.	ON WEST BOUNDARY SEC.2, T.21 N., R.18 E., AT BRIDGE ON STATE HIGHWAY 55, 3 MI (4.8 KM) NORTH OF KAUKAUNA.	14.6	1960-74	06-09-74	14.85	1210
04085100	EAST RIVER TRIBUTARY AT GREENLEAF, WIS.	NE 1/4 SEC.8, T.21 N., R.20 E., AT RAILROAD BOX CULVERT, 0.5 MU (0.8 KM) SOUTH OF GREENLEAF.	8.0	1958-74	03-03-74	10.59	110
04085300	NESHOTA RIVER TRIBUTARY NEAR DENMARK, WIS.	NE 1/4 SEC.7, T.22 N., R.22 E., AT BOX CULVERT ON U.S. HIGHWAY 141, 3.8 MI (6.1 KM) NORTHWEST OF DENMARK.	3.08	1959-74	03-03-74	12.8	105
*04085400	KILLSNAKE RIVER NEAR CHILTON, WIS.	E 1/2 SEC.6, T.18 N., R.20 E., AT BRIDGE ON COUNTRY ROAD, 2.4 MI (3.9 KM) NORTHEAST OF CHILTON.	29.5	1961-74	04-14-74	12.5	920
*04085700	SHEBOYGAN RIVER TRIBUTARY NEAR PLYMOUTH, WIS.	ON COMMON BOUNDARY OF SECS.2 AND 11, T.15 N, R.21 E., AT CONCRETE CULVERT ON COUNTY TRUNK J, 3.5 MI (5.6 KM) NORTHEAST OF PLYMOUTH.	5.51	1959-73		J	
04086400	MILWAUKEE RIVER TRIBUTARY NEAR FREDONIA, WIS.	SE 1/4 SEC.1, T.11 N., R.21 E., AT CULVERT ON COUNTRY ROAD, 2.3 MI (3.7 KM) SOUTHEAST OF FREDONIA.	.84	1962-74	03-03-74	12.5	95
*04087050	LITTLE MENOMONEE RIVER NEAR FREISTADT, WIS.	ON COMMON BOUNDARY OF SECS.29 AND 32, T.9 N., R.21 E., AT BRIDGE ON DONGES BAY ROAD, 2 MI (3.2 KM) SOUTH OF FREISTADT.	7.96	1958-74	03-03-74	12.58	290
04087100	HONEY CREEK AT MILWAUKEE, WIS.	SE 1/4 SEC.15, T.6 N., R.21 E., 400 FT UPSTREAM FROM BRIDGE ON S. 68TH STREET, AND 6 MI (9.7 KM) SOUTHWEST FROM MOUTH OF MILWAUKEE RIVER IN MILWAUKEE.	3.34	1959-74	06-09-74	19.33	250
*04087200	OAK CREEK NEAR SOUTH MILWAUKEE, WIS.	ON COMMON BOUNDARY OF SECS.21 AND 22, T.5 N., R.22 E., AT BRIDGE ON WEST NICHOLSON ROAD, 3 MI (4. KM) SOUTHWEST OF SOUTH MILWAUKEE.	13.9	1958-74	03-04-74	16.24	255
04087230	WEST BRANCH ROOT RIVER CANAL TRIBUTARY NEAR NORTH CAPE, WIS.	SE 1/4 SEC.33, T.4 N., R.21 E., AT CULVERT ON COUNTY TRUNK U, 3 MI (4.8 KM) SOUTHEAST OF NORTH CAPE.	3.92	1962-74	03-04-74	11.92	105
*04087250	PIKE CREEK NEAR KENOSHA, WIS.	W 1/2 SEC.27, T.2 N., R.22 E., AT BOX CULVERT ON STATE HIGHWAY 43, 3 MI (4.8 KM) NORTHWEST OF KENOSHA.	7.25	1960-74	03-04-74	15.19	95
		ST. CROIX RIVER BASIN					
*05333100	LITTLE FROG CREEK NEAR MINONG, WIS.	NW 1/4 SEC.29, T.42 N., R.11 W., AT CULVERT ON COUNTRY ROAD, 2.5 MI (4.0 KM) EAST OF MINONG.	13.0	1961-74	06-10-74	15.32	305
05334100	SAWYER CREEK NEAR SHELL LAKE, WIS.	SE 1/4 SEC.13, T.38 N., R.13 W., AT BOX CULVERT ON U.S. HIGHWAY 63, 2 MI (3.2 KM) NORTH OF SHELL LAKE.	1.04	1960-74	04-09-74	10.63	28

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
J PEAK DESTROYED BY VANDALS.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT^3/S)
		ST. CROIX RIVER BASIN--CONTINUED					
*05335380	BASHAW BROOK NEAR SHELL LAKE, WIS.	SW 1/4 SEC.8, T.38 N., R.14 W., AT TWIN BOX CULVERT ON COUNTRY ROAD 10.5 MI (16.9 KM) NORTHWEST OF SHELL LAKE.	24.9	1959-65 1966# 1967-74	06-10-74	12.41	92
*05340300	TRADE RIVER NEAR FREDERIC, WIS.	SW 1/4 SEC.4, T.36 N., R.17 W., AT BOX CULVERT ON STATE HIGHWAYS 35 AND 48, 2.5 MI (4.0 KM) SOUTHWEST OF FREDERIC.	6.34	1958-74	04-12-74	11.88	135
05341700	WILLOW RIVER TRIBUTARY NEAR NEW RICHMOND, WIS.	NW 1/4 SEC.17, T.30 N., R.17 W., AT TWIN BOX CULVERT ON COUNTY TRUNK GG, 3.6 MI (5.8 KM) SOUTHEAST OF NEW RICHMOND.	1.40	1959-74	04-05-74	11.71	55
05341900	KINNICKINNIC RIVER TRIBUTARY AT RIVER FALLS, WIS.	NE 1/4 SEC.14, T.27 N., R.19 W., AT BRIDGE ON COUNTY TRUNK FF, 1.6 MI (2.6 KM) SOUTHWEST OF RIVER FALLS.	7.26	1959-74	04-05-74	12.08	620
		TRIMBELLE CREEK BASIN					
*05346600	LITTLE TRIMBELLE CREEK NEAR BAY CITY, WIS.	S 1/2 SEC.21, T.25 N., R.18 W., AT BRIDGE ON COUNTY TRUNK K, 7 MI (11.3 KM) NORTHWEST OF BAY CITY.	19.9	1961-74	04-05-74	11.00	530
		CHIPPEWA RIVER BASIN					
05356200	KENYON CREEK NEAR RADISSON, WIS.	NW 1/4 SEC.22, T.38 N., R.6 W., AT BRIDGE ON STATE HIGHWAY 27, 5 MI (8.0 KM) EAST OF RADISSON.	A 7.5	1960-74	04-05-74	12.06	222
05357360	BEAR RIVER NEAR POWELL, WIS.	NE 1/4 SEC.32, T.42 N., R.4 E., AT BRIDGE ON STATE HIGHWAY 182, 3 MI (4.8 KM) WEST OF POWELL.	118	1972-74	04-12-74	11.54	305
05357390	WEBER CREEK NEAR MERCER, WIS.	SE 1/4 SEC.21, T.43 N., R.3 E., AT CULVERT ON U.S. HIGHWAY 51, 3.7 MI (6.0 KM) NORTHEAST OF MERCER.	5.86	1970-74	04-13-74	11.75	122
05358100	SMITH CREEK NEAR PARK FALLS, WIS.	NE 1/4 SEC.15., T.40 N., R.1 W., AT CULVERT ON STATE HIGHWAY 13, 1.5 MI (2.4 KM) NORTHEAST OF PARK FALLS.	9.11	1970-74	04-12-74	12.13	134
05359200	SOUTH FORK FLAMBEAU RIVER TRIBUTARY NEAR PARK FALLS, WIS.	SW 1/4 SEC.15, T.40 N., R.1 E., AT SULVERT ON STATE HIGHWAY 182, 5.1 MI (8.2 KM) EAST OF PARK FALLS.	.86	1960-74	04-12-74	11.26	68
*05359600	PRICE CREEK NEAR PHILLIPS, WIS.	SW 1/4 SEC.31, T.38 N., R.2 W., AT CULVERT ON COUNTY TRUNK W, 13 MI (20.9 KM) WEST OF PHILLIPS.	14.7	1958-65 1966# 1967-74	04-21-74	11.80	120
05360200	FLAMBEAU RIVER TRIBUTARY AT LADYSMITH, WIS.	SW 1/4 SEC.27, T.35 N., R.6 W., AT CULVERT ON STATE HIGHWAY 27, 1 MI (1.6 KM) NORTH OF LADYSMITH.	A 0.8	1960-74	04-12-74	11.63	23
*05361400	HAY CREEK NEAR PRENTICE, WIS.	SE 1/4 SEC.4, T.35 N., R.1 E., AT CULVERT ON U.S. HIGHWAY 8, 3.5 MI (5.6 KM) WEST OF PRENTICE.	21.9	1961-74	06-09-74	12.0	400
05361420	DOUGLAS CREEK NEAR PRENTICE, WIS.	NE 1/4 SEC.17, T.35 N., R.2 E., AT CULVERT ON COUNTY TRUNK HIGHWAY C, 2.3 MI (3.7 KM) SOUTHEAST FROM INTERSECTION WITH STATE HIGHWAY 13 IN PRENTICE.	24.6	1970-74	04-12-74	12.26	325
05361600	NORTH FORK JUMP RIVER NEAR PHILLIPS, WIS.	SW 1/4 SEC.5, T.36 N., R.1 E., AT CULVERT ON STATE HIGHWAY 13, 4 MI (6.4 KM) SOUTH OF PHILLIPS.	10.4	1970-74	06-09-74	12.30	185

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A APPROXIMATELY.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		CHIPPEWA RIVER BASIN--CONTINUED					
*05364000	YELLOW RIVER AT CADOTT, WIS.	NE 1/4 SEC.31, T.29 N., R.6 W., AT BRIDGE ON STATE HIGHWAY 27, IN CADOTT.	351	1943-61# 1962-74	04-13-74	11.31	5700
05364100	SETH CREEK NEAR CADOTT, WIS.	SW 1/4 SEC.17, T.29 N., R.6 W., AT CULVERT ON STATE HIGHWAY 27, 3.1 MI (5.0 KM) NORTH OF CADOTT.	3.04	1962-74	04-13-74	12.51	152
05364500	DUNCAN CREEK AT BLOOMER, WIS.	SEC.8, T.30 N., R.9 W., 0.2 MI (0.3 KM) BELOW BLOOMER DAM AT BLOOMER.	49.2	1945-51# 1958-74	04-13-74	5.26	475
*05365700	GOGGLE-EYE CREEK NEAR THORP, WIS.	WEST BOUNDARY SEC.19, T.29 N., R.3 W., AT CULVERT ON STATE HIGHWAY 73, 1.3 MI (2.1 KM) NORTH OF THORP.	6.70	1958-74	06-09-74	13.02	360
*05366500	EAU CLAIRE RIVER NEAR FALL CREEK, WIS.	NW 1/4 SEC.19, T.27 N., R.7 W., 500 FT EAST OF COUNTY TRUNK K, 3.2 MI (5.1 KM) NORTH OF FALL CREEK.	758	1943-55# 1958-74	04-06-74	9.89	6600
05367030	WILLOW CREEK NEAR EAU CLAIRE, WIS.	ON COMMON BOUNDARY OF SECS.14 AND 15, T.26 N., R.9 W., AT BOX CULVERT ON STATE HIGHWAY 93, 4 MI (6.4 KM) SOUTH OF EAU CLAIRE.	4.38	1958-74	06-10-74	10.82	105
*05367480	EAST BRANCH PINE CREEK TRIBUTARY NEAR DALLAS, WIS.	SW 1/4 SEC.1, T.32 N., R.12 W., AT CULVERT ON COUNTY TRUNK O, 1.5 MI (2.4 KM) NORTH OF DALLAS.	3.85	1960-74	04-06-74	11.16	60
05367500	RED CEDAR RIVER NEAR COLFAX, WIS.	SW 1/4 SEC.22, T.30 N., R.11 W., 3.2 MI (5.1 KM) BELOW TROUT CREEK AND 4.7 MI (7.6 KM) NORTH OF COLFAX.	A 1110	1914-61# 1962-74	04-15-74	B	5000
05367700	LIGHTNING CREEK AT ALMENA, WIS.	NW 1/4 SEC.19, T.34 N., R.13 W., AT BRIDGE ON COUNTY TRUNK P, IN ALMENA.	19.8	1958-74	04-04-74	10.95	410
05369800	EAU GALLE RIVER TRIBUTARY NEAR HERSEY, WIS.	SW 1/4 SEC.5, T.28 N., R.15 W., AT BOX CULVERT ON INTERSTATE HIGHWAY 94, 2 MI (3.2 KM) SOUTHWEST OF HERSEY.	.65	1960-74	04-04-74	10.4	40
05370600	ARKANSAW CREEK TRIBUTARY NEAR ARKANSAW, WIS.	SW 1/4 SEC.14, T.25 N., R.14 W., AT BOX CULVERT ON U.S. HIGHWAY 10, 1.2 MI (1.9 KM) NORTHWEST OF ARKANSAW.	2.56	1959-74	07-10-74	11.2	90
*05370900	SPRING CREEK NEAR DURAND, WIS.	S 1/2 SEC.9, T.24 N., R.13 W., AT BRIDGE ON COUNTRY ROAD, 4 MI (6.4 KM) SOUTH OF CHIPPEWA RIVER BRIDGE IN DURAND.	6.49	1962-74	04-05-74	11.99	110
		BY GOLLY CREEK BASIN					
05371300	BY GOLLY CREEK NEAR NELSON, WIS.	SW 1/4 SEC.28, T.23 N., R.13 W., AT CULVERT ON COUNTY TRUNK D, 3 MI (4.8 KM) NORTHEAST OF NELSON.	.28	1962-73		C	
		BUFFALO RIVER BASIN					
05371800	BUFFALO RIVER TRIBUTARY NEAR OSSEO, WIS.	S 1/2 SEC.3, T.24 N., R.6 W., AT CULVERT ON U.S. HIGHWAY 10, 6.5 MI (10.5 KM) EAST OF OSSEO.	1.44	1960-74	06-10-74	10.36	44
05371920	BUFFALO RIVER NEAR MONDOVI, WIS.	SW 1/4 SE 1/4 SEC.27, T.24 N., R.11 W., AT BRIDGE ON STATE HIGHWAY 88, 4.0 MI (6.4 KM) SOUTH OF MONDOVI.	280	1974	06-09-74	11.42	770
		WAUMANDEE CREEK BASIN					
*05378200	EAGLE CREEK NEAR FOUNTAIN CITY, WIS.	SW 1/4 SEC.33, T.20 N., R.11 W., AT BRIDGE ON COUNTY TRUNK G, 2.5 MI (4.0 KM) NORTH OF FOUNTAIN CITY.	26.8	1961-74	06-09-74	11.88	400

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
A APPROXIMATELY.
B PEAK DID NOT REACH BOTTOM OF THE GAGE.
C GAGE NOT OPERATING.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		BLACK RIVER BASIN					
05380800	BLACK RIVER TRIBUTARY NEAR WHITTLESEY, WIS.	SW 1/4 SEC.35, T.32 N., R.1 E., AT BRIDGE ON STATE HIGHWAY 13, 1.1 MI (1.8 KM) SOUTH OF WHITTLESEY.	2.12	1960-74	04-04-74	11.13	85
*05380900	POPLAR RIVER NEAR OWEN, WIS.	NW 1/4 SEC.25, T.28 N., R.2 W., AT BRIDGE ON COUNTY TRUNK N, 4.2 MI (6.8 KM) SOUTH OF OWEN.	157	1958-65 1966# 1967-74	04-04-74	13.37	2300
*05380970	CAWLEY CREEK NEAR NEILSVILLE, WIS.	SW 1/4 SEC.25, T.25 N., R.2 W., AT BRIDGE ON STATE HIGHEAY 73, 3.7 MI (6.0 KM) NORTH OF NEILLSVILLE.	38.6	1961-74	04-04-74	14.55	1200
*05382200	FRENCH CREEK NEAR ETTRICK, WIS.	NE 1/4 SEC.27, T.20 N., R.8 W., AT BRIDGE ON COUNTY TRUNK D AND T, 2.5 MI (4.0 KM) WEST OF ETTRICK.	14.3	1960-74	08-22-74	10.48	270
		LA CROSSE RIVER BASIN					
05382300	BEAVER CREEK THIBUTARY NEAR SPARTA, WIS.	NW 1/4 SEC.11, T.17 N., R.4 W., AT BOX CULVERT ON STATE HIGHWAYS 27 AND 71, 1.9 MI (3.1 KM) NORTH OF SPARTA.	1.72	1959-74	04-04-74	12.25	150
05382500	LITTLE LA CROSSE RIVER NEAR LEON, WIS.	E 1/4 SEC.3, T.16 N., R.4 W., 4 MI (6.4 KM) UPSTREAM FROM MOUTH AND 1.5 MI (2.4 KM) NORTHWEST OF LEON.	77.1	1934-61# 1962-74	03-03-74	5.02	730
		MORMON CREEK BASIN					
05386300	MORMON CREEK NEAR LA CROSSE, WIS.	NE 1/4 SEC.19, T.15 N., R.6 W., AT BRIDGE ON COUNTY ROAD, 6 MI (9.7 KM) SOUTHEAST OF LA CROSSE.	25.5	1961-74	1974	B	<400
		BAD AXE RIVER BASIN					
*05387100	NORTH FORK BAD AXE RIVER NEAR GENOA, WIS.	SW 1/4 SEC.36, T.13 N., R.7 W., AT BRIDGE ON STATE HIGHWAY 56, 4.1 MI (6.6 KM) SOUTHEAST DF GENOA.	68.8	1959-65 1966# 1967-74	03-03-74	14.39	1250
		DU CHARME CREEK BASIN					
05388460	DU CHARME CREEK AT EASTMAN, WIS.	NE 1/4 SEC.13, T.8 N., R.6 W., AT CULVERT ON COUNTY TRUNK D IN EASTMAN.	.30	1961-74	1974	B	<30
		WISCONSIN RIVER BASIN					
*05390140	MUSKRAT CREEK AT CONOVER, WIS.	SW 1/4 SEC.4, T.41 N., R.10 E., AT CORRUGATED CULVERT ON U.S. HIGHWAY 45 0.1 MI (0.2 KM) NORTH OF CONOVER.	9.95	1970-74	08-03-74	11.11	37
05390240	FOURMILE CREEK NEAR THREE LAKES, WIS.	NE 1/4 SEC.26, T.39 N., R.10 E., AT 2-BARREL CORRUGATED CULVERT ON BLACKTOP FOREST ROAD, 5.5 MI (8.8 KM) NORTHEAST OF THREE LAKES.	11.6	1970-74	06-14-74	11.59	76
05391260	GUDEGAST CREEK NEAR STARKS, WIS.	NW 1/4 SEC.16, T.37 N., R.10 E., AT CORRUGATED CULVERT ON COUNTY ROAD, 3 MI (4.8 KM) NORTHWEST OF STARKS.	13.0	1970-74	04-13-74	11.34	44
05391950	SQUAW CREEK NEAR HARRISON, WIS.	SW 1/4 SEC.3, T.35 N., R.8 E., AT CULVERT ON COUNTY TRUNK HIGHWAY A, 5 MI (8.0 KM) NORTHEAST OF HARRISON.	3.19	1970-74	04-13-74	10.28	12

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
B PEAK DID NOT REACH BOTTOM OF THE GAGE.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		WISCONSIN RIVER BASIN--CONTINUED					
*05392150	MISHONAGON CREEK NEAR WOODRUFF, WIS.	NE 1/4 SEC.32, T.40 N., R.6 E., AT TWIN CULVERT ON STATE HIGHWAY 47, 3 MI (4.8 KM) NORTHWEST OF WOODRUFF.	11.9	1958-74	04-13-74	10.47	74
*05392350	BEARSKIN CREEK NEAR HARSHAW, WIS.	SW 1/4 SEC.36, T.37 N., R.6 E., AT CULVERT ON COUNTY TRUNK K, 2.1 MI (3.4 KM) SOUTHWEST OF HARSHAW.	27.8	1958-65 1966# 1967-74	03-12-74	9.38	62
05393620	SKANAWAN CREEK NEAR TOMAHAWK, WIS.	SW 1/4 SEC.13, T.34 N., R.6 E., AT CULVERT ON STATE HIGHWAY 107, 3.5 MI (5.6 KM) SOUTHEAST OF TOMAHAWK.	6.59	1970-74	03-12-74	11.11	62
05393640	LITTLE PINE CREEK NEAR IRMA, WIS.	NW 1/4 SEC.31, T.34 N., R.7 E., AT BOX CULVERT ON U.S. HIGHWAY 51, 3 MI (4.8 KM) NORTH OF IRMA.	22.9	1970-74	04-13-74	12.58	100
*05394000	NEW WOOD RIVER NEAR MERRILL,	E 1/2 SEC.15, T.32 N., R.5, AT BRIDGE ON COUNTY TRUNK E, 9.5 MI (15.3 KM) NORTHWEST OF MERRILL.	A 83.1	1953-61# 1962-74	04-13-74	5.10	950
*05394200	DEVIL CREEK NEAR MERRILL, WIS.	N 1/2 SEC.30, T.31 N., R.6 E., AT CULVERT ON COUNTY TRUNK F, 5.8 MI (9.3 KM) SOUTHWEST OF MERRILL.	10.1	1961-74	04-13-74	12.04	195
05395020	LLOYD CREEK NEAR DOERING, WIS.	SE 1/4 SEC.21, T.32 N., R.9 E., AT BRIDGE ON COUNTY TRUNK C, 4.5 MI (7.2 KM) EAST OF DOERING.	8.54	1970-74	08-21-74	11.87	132
05395100	TRAPPE RIVER TRIBUTARY NEAR MERRILL, WIS.	SW 1/4 SEC.28, T.31 N., R.8 E., AT CULVERT ON COUNTY TRUNK P, 9.5 MI (15.3 KM) SOUTHEAST OF MERRILL.	A 2.2	1959-74	04-13-74	11.21	40
05396100	PET BROOK TRIBUTARY NEAR EDGAR, WIS.	SE 1/4 SEC.31, T.29 N., R.5 E., AT CULVERT ON STATE HIGHWAY 29, 1.5 MI (2.4 KM) NORTHEAST OF EDGAR.	6.69	1962-74	06-10-74	13.64	330
05397600	BIG SANDY CREEK NEAR WAUSAU, WIS.	SE 1/4 SEC.31, T.30 N., R.9 E., AT BRIDGE ON STATE HIGHWAY 52, 10 MI (16.1 KM) NORTHEAST OF WAUSAU.	A 9.9	1959-74	04-13-74	11.59	240
05399200	RANDALL CREEK TRIBUTARY NEAR ABBOTSFORD, WIS.	SOUTH BOUNDARY OF SEC.36, T.29 N., R.2 E., AT CONCRETE CULVERT, ON STATE HIGHWAY 29, 5.8 MI (9.3 KM) EAST OF ABBOTSFORD.	.56	1959-74	06-10-74	10.80	40
05400025	JOHNSON CREEK NEAR KNOWLTON, WIS.	SE 1/4 NE 1/4 SEC.13, T.26 N., R.7 E., AT BRIDGE ON COUNTY TRUNK X, 2.7 MI (4.3 KM) EAST OF KNOWLTON.	25.6	1973-74	04-03-74	13.35	375
05401800	YELLOW RIVER TRIBUTARY NEAR PITTSVILLE, WIS.	ON COMMON BOUNDARY OF SECS.11 AND 14, T.23 N., R.3 E., AT BRIDGE ON COUNTY TRUNK C, 2 MI (3.2 KM) NORTH OF PITTSVILLE.	7.27	1959-74	04-03-74	12.08	325
*05403520	WEBSTER CREEK AT NEW LISBON, WIS.	NE 1/4 SEC.19, T.16 N., R.3 E., AT BRIDGE ON STATE HIGHWAY 80, 1.2 MI (1.9 KM) SOUTH OF NEW LISBON.	11.5	1961-74	04-04-74	12.86	150
*05403550	ONE MILE CREEK NEAR MAUSTON, WIS.	SE 1/4 SEC.24, T.15 N., R.3 E., AT BRIDGE ON STATE HIGHWAY 58, 2.4 MI (3.9 KM) SOUTH OF MAUSTON.	30.4	1958-74	04-04-74	14.46	510
05403610	WISCONSIN RIVER TRIBUTARY AT WISCONSIN DELLS, WIS.	NE 1/4 SEC.3, T.13 N., R.6 E., AT CULVERT ON STATE HIGHWAY 13, 0.8 MI (1.3 KM) NORTH OF WISCONSIN DELLS.	1.16	1962-74	05-14-74	11.2	38
*05404200	NARROWS CREEK AT LOGANVILLE, WIS.	SE 1/4 SEC.8, T.11 N., R.4 E., AT BRIDGE ON STATE HIGHWAYS 23 AND 154, 0.2 MI (0.3 KM) NORTH OF LOGANVILLE.	40.0	1958-65 1966# 1967-74	02-20-74	14.34	1700

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
A APPROXIMATELY.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI²)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT³/S)
		WISCONSIN RIVER BASIN--CONTINUED					
*05405600	ROWAN CREEK AT POYNETTE, WIS.	S 1/2 SEC.35, T.11 N., R.9 E., AT BRIDGE ON U.S. HIGHWAY 51, IN POYNETTE.	10.1	1961-74	03-04-74	13.66	450
05406800	ROCKY BRANCH NEAR RICHLAND CENTER, WIS.	E 1/2 SEC.29, T.10 N., R.1 E., AT CULVERT ON STATE HIGHWAY 80, 1.5 MI (2.4 KM) SOUTH OF RICHLAND CENTER.	1.71	1960-74	08-22-74	11.89	105
*05407100	RICHLAND CREEK NEAR PLUGTOWN, WIS.	NW 1/4 SEC.9, T.8 N., R.3 W., AT BRIDGE ON U.S. HIGHWAY 61, 2 MI (3.2 KM) SOUTH OF PLUGTOWN.	19.2	1958-74	04-14-74	14.11	430
*05407200	CROOKED CREEK NEAR BOSCOBEL, WIS.	SE 1/4 SEC.2, T.7 N., R.3 W., AT BRIDGE ON U.S. HIGHWAY 61, 1.6 MI (2.6 KM) SOUTH OF BOSCOBEL.	13.1	1959-74	09-29-74	11.5	360
*05407400	MORRIS CREEK TRIBUTARY NEAR NORWALK, WIS.	NW 1/4 SEC.21, T.16 N., R.2 W., AT BRIDGE ON COUNTY TRUNK T, 2 MI (3.2 KM) NORTH OF NORWALK.	4.67	1960-74	03-09-74	10.79	200
		GRANT RIVER BASIN					
*05413400	PIGEON CREEK NEAR LANCASTER, WIS.	SW 1/4 SEC.15, T.4 N., R.3 W., AT CULVERT ON COUNTY ROAD, 2 MI (3.2 KM) SOUTH OF LANCASTER.	6.81	1960-65 1966# 1967-74	08-26-74	15.12	900
		PLATTE RIVER BASIN					
*05414200	BEAR BRANCH NEAR PLATTEVILLE, WIS.	NE 1/4 SEC.4, T.3 N., R.1 W., AT BOX CULVERT ON STATE HIGHWAY 81, 2.3 MI (3.7 KM) NORTHWEST OF PLATTEVILLE.	2.80	1958-74	06-20-74	20.35	1330
		GALENA RIVER BASIN					
*05414900	PATS CREEK NEAR ELK GROVE, WIS.	SW 1/4 SEC.4, T.2 N., R.1 E., AT BRIDGE ON STATE HIGHWAY 81, 7 MI (11.3 KM) SOUTHEAST OF PLATTEVILLE.	8.49	1960-74	06-20-74	15.15	1580
		ROCK RIVER BASIN					
05423000	WEST BRANCH ROCK RIVER NEAR WAUPUN, WIS.	SW 1/4 SEC.24, T.14 N., R.15 E., ON RIGHT BANK 700 FT (213M) DOWNSTREAM FROM BRIDGE ON U.S. HIGHWAY 151, 4.5 MI (7.2 KM) NORTHEAST OF WAUPUN.	41.4	1949-70# 1972-74	03-04-74	5.50	640
*05423300	SOUTH BRANCH ROCK RIVER TRIBUTARY NEAR WAUPUN, WIS.	S 1/4 SEC.22, T.14 N., R.14 E., AT CONCRETE CULVERT ON COUNTY ROAD 4.5 MI (7.2 KM) NORTHWEST OF WAUPUN.	11.9	1959-74	03-04-74	11.4	230
*05423800	EAST BRANCH ROCK RIVER TRIBUTARY NEAR SLINGER, WIS.	S 1/2 SEC.26, T.11 N., R.18 E., AT CULVERT ON U.S. HIGHWAY 41, 4 MI (6.4 KM) NORTHWEST OF SLINGER.	3.04	1960-74	06-09-74	11.99	180
05424300	ROCK RIVER TRIBUTARY NEAR WATERTOWN, WIS.	NE 1/4 SEC.18, T.8 N., R.16 E., AT CONCRETE CULVERT ON OLD U.S. HIGHWAY 16, 5 MI (8.0 KM) EAST OF WATERTOWN.	4.58	1959-74	03-04-74	13.22	175
*05425700	ROBBINS CREEK NEAR COLUMBUS, WIS.	SE 1/4 SEC.11, T.10 N., R.12 E., AT CULVERT ON U.S. HIGHWAY 16, IN COLUMBUS.	8.54	1960-74	03-04-74	13.37	175
05425827	MAUNESHA RIVER NEAR SUN PRAIRIE, WIS.	SE 1/4 SEC.23, T.9 N., R.11 E., AT BRIDGE ON TOWN ROAD, 4.2 MI (6.8 KM) NORTHEAST OF SUN PRAIRIE.	26.2	1973-74	03-04-74	14.77	/

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
/ DISCHARGE NOT DETERMINED.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

STATION NO.	STATION NAME	LOCATION	DRAINAGE AREA (MI^2)	PERIOD OF RECORD	ANNUAL MAXIMUM DATE	GAGE HEIGHT (FT)	DIS-CHARGE (FT^3/S)
		ROCK RIVER BASIN--CONTINUED					
05426100	SCUPPERNONG CREEK NEAR WALES, WIS.	NE 1/4 SEC.6, T.6 N., R.18 E., AT CULVERT ON U.S. HIGHWAY 18, 1.8 MI (2.9 KM) NORTHWEST OF WALES.	8.28	1962-74	03-03-74	10.40	105
*05427200	ALLEN CREEK NEAR FORT ATKINSON, WIS.	NE 1/4 SEC.17, T.5 N., R.14 E., AT BOX CULVERT ON STATE HIGHWAY 26, 2.5 MI (4.0 KM) SOUTHWEST OF FORT ATKINSON.	10.2	1958-74	03-04-74	10.59	112
*05427800	TOKEN CREEK NEAR MADISON, WIS.	SW 1/4 SEC.4, T.8 N., R.10 E., AT CULVERT ON U.S. HIGHWAY 51, 8 MI (12.9 KM) NORTHEAST OF STATE CAPITOL IN MADISON.	24.2	1961-65 1966# 1967-74	03-04-74	13.56	465
*05431400	LITTLE TURTLE CREEK AT ALLENS GROVE, WIS.	NE 1/4 SEC.6, T.1 N., R.15 E., AT BRIDGE ON COUNTY ROAD, 0.2 MI (0.3 KM) SOUTH OF ALLENS GROVE.	41.8	1962-73		C	
*05432300	ROCK BRANCH NEAR MINERAL POINT, WIS.	SE 1/4 SEC.8, T.4 N., R.3 E., AT BOX CULVERT ON STATE HIGHWAY 23, 2.5 MI (4.0 KM) SOUTH OF MINERAL POINT.	4.83	1959-74	03-04-74	11.73	210
*05433500	YELLOWSTONE RIVER NEAR BLANCHARD-VILLE, WIS.	NE 1/4 SEC.34, T.4 N., R.4 E., 0.6 MI (1.0 KM) UPSTREAM FROM BRIDGE ON COUNTY TRUNK F, AND 7 MI (11.3 KM) WEST-SOUTHWEST OF BLANCHARDVILLE.	28.5	1954-65# 1966-73		C	
05434200	SKINNER CREEK TRIBUTARY NEAR MONROE, WIS.	S 1/2 SEC.14, T.2 N., R.7 E., AT CULVERT ON STATE HIGHWAY 69, 2.4 MI (3.9 KM) NORTH OF MONROE.	.48	1959-74	03-04-74	12.15	64
05435900	SUGAR RIVER TRIBUTARY NEAR PINE BLUFF, WIS.	SE 1/4 SEC.27, T.7 N., R.7 E., AT CULVERT ON COUNTY TRUNK J, 1.1 MI (1.8 KM) SOUTHEAST OF PINE BLUFF.	7.46	1961-74	06-09-74	13.87	280
*05436200	GILL CREEK NEAR BROOKLYN, WIS.	NW 1/4 SEC.16, T.4 N., R.9 E., AT CULVERT ON STATE HIGHWAY 92, 4.3 MI (6.9 KM) WEST OF BROOKLYN.	3.34	1961-74	06-09-74	13.2	110
*05437200	EAST FORK RACCOON CREEK TRIBUTARY NEAR BELOIT, WIS.	ON COMMON BOUNDARY OF SECS.30 AND 31, T.1 N., R.12 E., AT CULVERT ON STATE HIGHWAY 81, 2.9 MI (4.7 KM) WEST OF BELOIT.	4.67	1958-74	06-21-74	14.51	540
		ILLINOIS RIVER BASIN					
05544300	MUKWONAGO RIVER TRIBUTARY NEAR MUKWONAGO, WIS.	S 1/2 SEC.36, T.5 N., R.18 E., AT CULVERT ON STATE HIGHWAY 83, 1.5 MI (2.4 KM) SOUTHEAST OF MUKWONAGO.	1.32	1960-74	03-03-74	11.28	50
05545100	SUGAR CREEK AT ELKHORN, WIS.	SW 1/4 SEC.29, T.3 N., R.17 E., AT CULVERT ON STATE HIGHWAY 11, 2 MI (3.2 KM) NORTHEAST OF ELKHORN.	6.68	1962-74	03-04-74	13.60	315
05545200	WHITE RIVER TRIBUTARY NEAR BURLINGTON, WIS.	ON COMMON BOUNDARY OF SECS.27 AND 34, T.3 N., R.18 E., AT BOX CULVERT ON STATE HIGHWAY 11, 4.5 MI (7.2 KM) WEST OF BURLINGTON.	2.42	1958-74	03-04-74	11.30	75
*05548150	NORTH BRANCH NIPPERSINK CREEK TRIBUTARY NEAR GENOA CITY, WIS.	E 1/2 SEC.32, T.1 N., R.18 E., AT BRIDGE ON COUNTY TRUNK B, 3 MI (4.8 KM) WEST OF GENOA CITY.	13.8	1962-74	03-04-74	11.84	222

* ALSO A LOW-FLOW PARTIAL-RECORD STATION.
\# OPERATED AS A CONTINUOUS-RECORD GAGING STATION.
C GAGE NOT OPERATING.

MEASUREMENTS AT MISCELLANEOUS SITES

MEASUREMENTS OF STREAMFLOW AT POINTS OTHER THAN GAGING STATIONS OR PARTIAL-RECORD STATIONS ARE GIVEN IN THE FOLLOWING TABLE OR IN THE LOW-FLOW INVESTIGATIONS SECTION IF A SERIES OF MEASUREMENTS WERE MADE ALONG A REACH OF A STREAM.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEARS 1973-74

STREAM	TRIBUTARY TO	LOCATION	DRAINAGE AREA (MI²)	MEASURED PREVIOUSLY (WATER YEARS)	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT³/S
		STREAMS TRIBUTARY TO LAKE MICHIGAN				
PIKE RIVER	MENOMINEE RIVER	SW 1/4 SW 1/4 SEC.15, T.35 N., R.20 E., MARINETTE COUNTY, ON LEFT BANK, 500 FT (152 M) UPSTREAM FROM RAILROAD BRIDGE, 0.2 MI (0.3 KM) SOUTH OF AMBERG, AND 1.2 MI (1.9 KM) DOWNSTREAM FROM CONFLUENCE OF NORTH AND SOUTH BRANCHES OF PIKE RIVER.	253	1914-70# 73-74	08-29-73 06-27-74	182 153
PORTAGE CANAL	FOX RIVER	NW 1/4 SEC.8, T.12 N., R.9 E., COLUMBIA COUNTY, AT BRIDGE ON U.S. HIGHWAY 51, AT PORTAGE.	--	1966 1969-71	10-05-73	4.7
FOX RIVER	LAKE MICHIGAN	NE 1/4 NE 1/4 SEC.18, T.18 N., R.15 E., WINNEBAGO COUNTY, AT STATE HIGHWAYS 21 AND 116, AT OMRO.	--	1902-03	11-29-72	1340
FOX RIVER	LAKE MICHIGAN	NE 1/4 NW 1/4 SEC.2, T.21 N., R.19 E., BROWN COUNTY, AT BRIDGE ON STATE HIGHWAY 96, AT WRIGHTSTOWN.	--	1902-03	03-29-73	17.8
		CHIPPEWA RIVER BASIN				
DUNCAN CREEK	CHIPPEWA RIVER	SE 1/4 SW 1/4 SEC.31, T.29 N., R.8 W., CHIPPEWA COUNTY, ON DOWNSTREAM SIDE OF BRIDGE ON IRVIN PARK ROAD, IN CHIPPEWA FALLS.	114	1943-55#	04-11-74	429
CHIPPEWA RIVER	MISSISSIPPI RIVER	NE 1/4 SEC.25, T.27 N., R.10 W., EAU CLAIRE COUNTY, AT BRIDGE ON STATE HIGHWAYS 37 AND 85 AT EAU CLAIRE, 1.2 MI (1.9 KM) UPSTREAM FROM LOWES CREEK AND 2.8 MI (4.5 KM) DOWNSTREAM FROM EAU CLAIRE RIVER.	6,630	1968-71	03-13-73 04-19-74	58,000 16,900
		BLACK RIVER BASIN				
LEVIS CREEK	BLACK RIVER	NE 1/4 SE 1/4 SEC.12, T.21 N., R.4 W., JACKSON COUNTY, AT BRIDGE ON STATE HIGHWAY 54, 2.2 MI (3.5 KM) NORTHEAST OF BLACK RIVER FALLS.	39.7	1969-70	04-02-73 06-12-74 07-24-74 09-10-74	73.3 124 13.4 10.9
		WISCONSIN RIVER BASIN				
WISCONSIN RIVER	MISSISSIPPI RIVER	NE 1/4 NW 1/4 SEC.7, T.12 N., R.9 E., COLUMBIA COUNTY, AT BRIDGE ON STATE HIGHWAY 33, 0.7 MI (1.1 KM) WEST OF PORTAGE.	--	1969	03-12-73 03-16-73	43,300 62,000
BARABOO RIVER	WISCONSIN RIVER	SE 1/4 SE 1/4 SEC.15, T.12 N., R.4 E., SAUK COUNTY, AT BRIDGE ON TOWN ROAD, 1 MI (1.6 KM) SOUTH OF REEDSBURG.	379	1972	04-17-73	4,580
BARABOO RIVER	WISCONSIN RIVER	NE 1/4 SW 1/4 SEC.2, T.11 N., R.5 E., SAUK COUNTY, AT BRIDGE ON WEST SIDE OF VILLAGE OF NORTH FREEDOM.	486	1965-67 1971	04-18-73	3,880
WISCONSIN RIVER	MISSISSIPPI RIVER	NE 1/4 SE 1/4 SEC.12, T.9 N., R.6 E., SAUK COUNTY, AT BRIDGE ON U.S. HIGHWAY 12 AND AT SAUK CITY.	--	--	03-19-73	56,600

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEARS 1973-74

STREAM	TRIBUTARY TO	LOCATION	DRAINAGE AREA (MI²)	MEASURED PREVIOUSLY (WATER YEARS)	MEASUREMENTS DATE	MEASUREMENTS DISCHARGE (FT³/S)
		WISCONSIN RIVER BASIN--CONTINUED				
KICKAPOO RIVER	WISCONSIN RIVER	NE 1/4 SW 1/4 SEC.2, T.14 N., R.2 W., VERNON COUNTY, AT BRIDGE ON STATE HIGHWAY 33, AT ONTARIO.	116	1971	12-07-72 01-18-73 03-03-73 03-14-73 04-16-73	44.1 441 135 972 1,560
KICKAPOO RIVER	WISCONSIN RIVER	NW 1/4 SW 1/4 SEC.8, T.11 N., R.3 W., VERNON COUNTY, AT BRIDGE ON U.S. HIGHWAY 14, 5 MI (8 KM) UPSTREAM FROM MOUTH OF READS CREEK, AT READSTOWN.	485	1952 1960-62 1965 1968 1971	03-05-74	2,410
KICKAPOO RIVER	WISCONSIN RIVER	SE 1/4 SEC.30, T.11 N., R.3 W., CRAWFORD COUNTY, ON BRIDGE ON STATE HIGHWAY 131 AT SOLDIERS GROVE, 450 FT (137 M) DOWNSTREAM FROM BAKER CREEK.	530	1938-39 1960	03-05-74	2,620
		ROCK RIVER BASIN				
MADISON METRO SEWERAGE DITCH	BADFISH CREEK	SE 1/4 NE 1/4 SEC.19, T.6 N., R.10 E., DANE COUNTY, 500 FT (152 M) UPSTREAM FROM COUNTY TRUNK HIGHWAY B, 3.2 MI (5.2 KM) NORTHEAST OF OREGON.	--	--	11-16-72 11-16-72 07-06-73 07-06-73	38.7 38.1 72.2 70.3
MADISON METRO SEWERAGE DITCH	BADFISH CREEK	NE 1/4 NE 1/4 SEC.30, T.6 N., R.10 E., DANE COUNTY, AT SCHNEIDER ROAD CROSSING 2.7 MI (4.3 KM) NORTHEAST OF OREGON.	--	--	11-16-72 11-16-72 07-06-73 07-06-73	40.8 41.1 68.8 68.6
MADISON METRO SEWERAGE DITCH	BADFISH CREEK	SE 1/4 SE 1/4 SEC.30, T.6 N., R.10 E., DANE COUNTY, AT ROAD CROSSING TO LAND FILL SITE, 1.9 MI (3.1 KM) NORTHEAST OF OREGON.	--	--	11-16-72 11-16-72 07-06-73 07-06-73	40.6 39.9 70.2 72.1
MADISON METRO SEWERAGE DITCH	BADFISH CREEK	SE 1/4 SE 1/4 SEC.31, T.6 N., R.10 E., DANE COUNTY, AT RULLAND DUNN ROAD CROSSING, 1.6 MI (2.6 KM) NORTHEAST OF OREGON.	--	--	11-16-72 11-16-72 07-06-73 07-06-73	41.8 40.9 73.1 73.7
BARK RIVER	ROCK RIVER	SE 1/4 SE 1/4 SEC.1, T.5 N., R.14 E., JEFFERSON COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY N, 3.2 MI (5.1 KM) EAST OF FORT ATKINSON.	--	--	03-19-73	863
		ILLINOIS RIVER BASIN				
FOX RIVER	ILLINOIS RIVER	NE 1/4 NE 1/4 SEC.32, T.3 N., R.19 E., RACINE COUNTY, AT JEFFERSON STREET BRIDGE, IN BURLINGTON.	--	1967	04-21-73	4,680

REGULAR GAGING STATION DURING THIS PERIOD.

SERIES OF BASE-FLOW DISCHARGE MEASUREMENTS WERE MADE IN VARIOUS AREAS OF THE STATE DURING THE 1974 WATER YEAR. THESE MEASUREMENTS WERE MADE AS PART OF A COMPREHENSIVE PROGRAM NOW BEING CARRIED ON IN COOPERATION WITH THE DEPARTMENT OF NATURAL RESOURCES, THE OBJECT OF WHICH IS TO OBTAIN INFORMATION ON THE VARIABILITY OF BASE FLOW WITHIN SMALL BASINS.

THE MEASUREMENTS FOR EACH STUDY ARE LISTED IN ORDER PROCEEDING DOWNSTREAM, AND EACH TRIBUTARY IS INSERTED IN THE ORDER IN WHICH IT ENTERS THE MAIN STREAM. THE DATA COLLECTED IN THESE SERIES OF MEASUREMENTS WERE USED IN DETERMINING THE BASE-FLOW YIELDS OF VARIOUS PARTS OF THE BASINS. DRAINAGE AREAS SHOWN WERE DETERMINED FROM THE MOST RECENT U.S. GEOLOGICAL SURVEY MAPS OF THE AREA. WATER TEMPERATURE, DISSOLVED OXYGEN, AND SPECIFIC CONDUCTANCE MEASUREMENTS WERE OBTAINED AT THE TIME THE DISCHARGE MEASUREMENTS WERE MADE AND ARE AVAILABLE UPON REQUEST TO THE DISTRICT OFFICE.

STREAMS TRIBUTARY TO LAKE MICHIGAN

A SERIES OF BASE-FLOW DISCHARGE MEASUREMENTS WAS MADE IN THE WEST BRANCH OF THE FOND DU LAC RIVER BASIN NOVEMBER 14, 15, 1973. IN THE WEEK PRIOR TO THE MEASUREMENTS, WEATHER RECORDS AT ELDORADO INDICATE ONLY TRACES OF PRECIPITATION NOVEMBER 9 AND 14. HOWEVER 0.65 IN (16.5 MM) OF RAIN WAS REPORTED AT ELDORADO NOVEMBER 15. THE DISCHARGE MEASUREMENTS MADE ON THIS DATE MAY REFLECT SURFACE RUNOFF. THE BASE-FLOW MEASUREMENTS REPRESENT HIGH-RANGE BASE-FLOW CONDITIONS.

STREAMS TRIBUTARY TO LAKE MICHIGAN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	WEST BRANCH FOND DU LAC RIVER AND TRIBUTARIES				
WEST BRANCH FOND DU LAC RIVER	SW 1/4 SW 1/4 SEC.4, T.15 N., R.15 E., FOND DU LAC COUNTY, ON COUNTY TRUNK HIGHWAY M, 2.6 MI (4.2 KM) WEST OF ROSENDALE.	.75	11-15-73	0.00	0.00
WEST BRANCH FOND DU LAC RIVER	NE 1/4 SE 1/4 SEC.3, T.15 N., R.15 E., FOND DU LAC COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.9 MI (1.4 KM) SOUTHWEST OF ROSENDALE.	3.04	11-15-73	.02	.01
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 NW 1/4 SEC.35, T.16 N., R.15 E., FOND DU LAC COUNTY AT BRIDGE ON STATE HIGHWAY 26, 0.8 MI (1.3 KM) NORTH OF ROSENDALE.	2.85	11-15-73	.63	.22
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	SE 1/4 NE 1/4 SEC.18, T.16 N., R.15 E., FOND DU LAC COUNTY, AT CULVERT ON COUNTRY ROAD, 5.1 MI (8.2 KM) NORTHWEST OF ROSENDALE.	3.08	11-15-73	.60	.20
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 NW 1/4 SEC.28, T.16 N., R.15 E., FOND DU LAC COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY M, 2.9 MI (4.7 KM) NORTHWEST OF ROSENDALE.	12.00	11-15-73	1.22	.10
UNNAMED TRIBUTARY TO FOND DU LAC TRIBUTARY	NW 1/4 NW 1/4 SEC.10, T.16 N., R.15 E., FOND DU LAC COUNTY, ON COUNTRY ROAD AT TRIANGLE SCHOOL, 5.2 MI (8.4 KM) NORTH OF ROSENDALE.	5.38	11-15-73	.09	.02
TRIBUTARY TO WEST BRANCH FOND DU LAC TRIBUTARY	NW 1/4 NE 1/4 SEC.15, T.16 N., R.15 E., FOND DU LAC COUNTY, AT CULVERT ON COUNTY TRUNK HIGHWAY N, 3.9 MI (6.3 KM) NORTH OF ROSENDALE.	2.76	11-15-73	.04	.01
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 NW 1/4 SEC.26, T.16 N., R.15 E., FOND DU LAC COUNTY, AT BRIDGE ON STATE HIGHWAY 26, 2 MI (3.2 KM) NORTH OF ROSENDALE.	30.60	11-14-73	2.04	.07
TRIBUTARY TO WEST BRANCH FOND DU LAC RIVER TRIBUTARY	SE 1/4 NE 1/4 SEC.23, T.16 N., R.15 E., FOND DU LAC COUNTY, AT CULVERT ON PRIVATE ROAD, 2.8 MI (4.5 KM) NORTH OF ROSENDALE.	.96	11-14-73	0.00	0.00
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 SW 1/4 SEC.14, T.15 N., R.15 E., FOND DU LAC COUNTY, AT BRIDGE ON STATE HIGHWAY 26, 2.6 MI (4.2 KM) SOUTH OF ROSENDALE.	1.84	11-15-73	.07	.04

STREAMS TRIBUTARY TO LAKE MICHIGAN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
WEST BRANCH FOND DU LAC RIVER AND TRIBUTARIES--CONTINUED					
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NW 1/4 NW 1/4 SEC.7, T.15 N., R.16 E., FOND DU LAC COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY KKK, 2.0 MI (3.2 KM) SOUTHEAST OF ROSENDALE.	4.93	11-15-73	.79	.16
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 SE 1/4 SEC.36, T.16 N., R.15 E., FOND DU LAC COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY OOO, 1.5 MI (2.4 KM) EAST OF ROSENDALE.	8.80	11-13-73	.34	.04
WEST BRANCH FOND DU LAC RIVER	SE 1/4 SW 1/4 SEC.29, T.16 N., R.16 E., FOND DU LAC COUNTY, NEAR END OF PRIVATE ROAD, 3.3 MI (5.3 KM) EAST OF ROSENDALE.	56.60	11-14-73	4.69	.08
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	SW 1/4 SW 1/4 SEC.16, T.16 N., R.16 E., FOND DU LAC COUNTY, AT CULVERT ON COUNTY TRUNK HIGHWAY N, 4.8 MI (7.7 KM) NORTHEAST OF ROSENDALE.	0.10	11-14-73	0.00	0.00
TRIBUTARY OF WEST BRANCH FOND DU LAC RIVER TRIBUTARY	SE 1/4 SW 1/4 SEC.20, T.16 N., R.16 E., FOND DU LAC COUNTY, ON COUNTRY ROAD, 3.8 MI (6.1 KM) NORTHEAST OF ROSENDALE.	0.43	11-15-73	0.00	0.00
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	NE 1/4 NW 1/4 SEC.16, T.16 N., R.16 E., FOND DU LAC COUNTY, ON COUNTRY ROAD, 5.3 MI (8.5 KM) NORTHEAST OF ROSENDALE.	2.90	11-15-73	<.05	
WEST BRANCH FOND DU LAC RIVER TRIBUTARY	SW 1/4 SE 1/4 SEC.16, T.16 N., R.16 E., FOND DU LAC COUNTY, ON COUNTY TRUNK HIGHWAY N, 5.0 MI (8.0 KM) NORTHEAST OF ROSENDALE.	1.55	11-14-73	0.00	0.00
*WEST BRANCH FOND DU LAC RIVER	SW 1/4 NW 1/4 SEC.12, T.15 N., R.16 E., FOND DU LAC COUNTY, AT BRIDGE ON STATE HIGHWAY 23, 7.0 MI (11.3 KM) EAST OF ROSENDALE.	77.00	11-14-73	.57	
*WEST BRANCH FOND DU LAC RIVER	SE 1/4 SE 1/4 SEC.13, T.15 N., R.16 E., FOND DU LAC COUNTY, AT BRIDGE ON COUNTRY ROAD, 7.9 MI (12.7 KM) EAST OF ROSENDALE.	79.8	11-14-73	.66	
*WEST BRANCH FOND DU LAC RIVER AT FOND DU LAC	NE 1/4 NE 1/4 SEC.20, T.15 N., R.17 E., FOND DU LAC COUNTY, AT COUNTY TRUNK HIGHWAY T, 2.0 MI (3.2 KM) SOUTHWEST OF DOWNTOWN FOND DU LAC, WIS.	84.50	11-14-73	1.32	

WATER WAS BEING STORED IN THE ELDORADO MARSH FLOWAGE IN THE CENTER OF THE BASIN AND STREAMS INDICATED BY AN ASTERISK DO NOT REPRESENT NATURAL BASE-FLOW CONDITIONS.

STREAMS TRIBUTARY TO LAKE MICHIGAN

PIKE RIVER BASIN LOW-FLOW INVESTIGATIONS

A SERIES OF DISCHARGE MEASUREMENTS WAS MADE IN THE PIKE RIVER BASIN DURING THE PERIODS OCTOBER 25, 26, 1973, AND SEPTEMBER 19, 20, 1974. MUNICIPAL AND INDUSTRIAL EFFLUENT DISCHARGE INTO THE HEADWATERS OF THE PIKE RIVER; THIS EFFLUENT WAS MEASURED AS 4.66 FT /S (0.13 M /S) SEPTEMBER 19, 1974. MEASUREMENTS (DESIGNATED BY AN ASTERISK) MADE ON THE PIKE RIVER MAY REFLECT THIS FLOW AUGMENTATION AND PROBABLY DO NOT REPRESENT NATURAL BASE-FLOW CONDITIONS. DISCHARGE IN CUBIC FEET PER SECOND PER SQUARE MILE WAS NOT COMPUTED FOR THESE SITES. IN THE WEEK PRIOR TO AND INCLUDING THE DATES THE MEASUREMENTS WERE MADE, WEATHER RECORDS INDICATE NO PRECIPITATION IN THE AREA FOR THE FIRST SERIES OF MEASUREMENTS AND 0.22 IN (5.6 MM) AND .07 IN (1.8 MM) OF PRECICITATION RESPECTIVELY FOR THE DATES SEPTEMBER 12 AND 20, 1974. BASED ON WEATHER RECORDS AND STREAMFLOW RECORDS IN NEARBY BASINS THE DISCHARGE MEASUREMENTS NOT ASTERISKED REPRESENT HIGH-RANGE BASE FLOW.

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	PIKE RIVER BASIN				
PIKE CREEK TRIBUTARY	SE 1/4 NE 1/4 SEC.21, T.2 N., R.22 E., KENOSHA COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY EA, 1.7 MI (2.7 KM) SOUTHEAST OF SOMERS.	2.04	09-19-74	0.00	0.00
PIKE CREEK	NW 1/4 NE 1/4 SEC.15, T.2 N., R.22 E., KENOSHA COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY E, 1.5 MI (2.4 KM) EAST OF SOMERS.	13.2	09-19-74	.04	<.01
PIKE RIVER TRIBUTARY	SW 1/4 SE 1/4 SEC.9, T.2 N., R.22 E., KENOSHA COUNTY, AT CULVERT ON CHICAGO & MILWAUKEE R. R., AT NORTH EDGE OF SOMERS, WIS.	.83	10-26-73	<.01	
PIKE CREEK TRIBUTARY	NW 1/4 SE 1/4 SEC.10, T.2 N., R.22 E., KENOSHA COUNTY, AT MOUTH, 1.5 MI (2.4 KM) EAST OF SOMERS, WIS.	2.71	09-19-74	.02	<.01
PIKE CREEK TRIBUTARY	SW 1/4 SE 1/4 SEC.3, T.2 N., R.22 E., KENOSHA COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY A, 1.7 MI (2.7 KM) NORTHEAST OF SOMERS, WIS.	2.48	09-19-74	0.00	0.00
PIKE RIVER	NE 1/4 SW 1/4 SEC.1, T.2 N., R.22 E., KENOSHA COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY G, 4.9 MI (7.9 KM) NORTH OF DOWNTOWN KENOSHA, WIS.	39.9	09-20-74	4.73	
PIKE RIVER	NW 1/4 SW 1/4 SEC.6, T.2 N., R.23 E., KENOSHA COUNTY, AT COUNTY TRUNK HIGHWAY Y, 5.0 MI (8.0 KM) NORTH OF DOWNTOWN KENOSHA, WIS.	40.4	09-20-74	5.24	
PIKE RIVER	SE 1/4 SW 1/4 SEC.6, T.2 N., R.23 E., KENOSHA COUNTY, AT BRIDGE ON LATHROP AVENUE, 4.6 MI (7.4 KM) NORTH OF DOWNTOWN KENOSHA, WIS.	41.7	09-20-74	4.64	
PIKE RIVER TRIBUTARY	SW 1/4 SE 1/4 SEC.6, T.2 N., R.23 E., KENOSHA COUNTY, AT MOUTH, 4.5 MI (7.2 KM) NORTH OF DOWNTOWN KENOSHA.	3.69	09-20-74	.02	<.01
PIKE RIVER	SE 1/4 NW 1/4 SEC.14, T.3 N., R.22 E., RACINE COUNTY, AT CULVERT ON HIGHWAY 20, 4.4 MI (7.1 KM) WEST OF RACINE, WIS.	4.42	09-19-74	.032	<.01
STURTEVANT TRIBUTARY	SW 1/4 NE 1/4 SEC.21, T.3 N., R.22 E., RACINE COUNTY, AT CULVERT ON FANCHER ROAD (COUNTY TRUNK HIGHWAY H), 0.3 MI (0.5 KM) NORTH OF STURTEVANT, WIS.	.65	09-19-74	0.00	0.00
STURTEVANT TRIBUTARY	NE 1/4 SW 1/4 SEC.22, T.3 N., R.22 E., RACINE COUNTY, ON LOCAL ROAD, 0.2 MI (0.3 KM) EAST OF 90TH ST. ON THE MILWAUKEE R. R. TRACKS, AT STURTEVANT, WIS.	1.67	09-19-74	0.00	0.00
PIKE RIVER TRIBUTARY	NW 1/4 SE 1/4 SEC.22, T.3 N., R.22 E., RACINE COUNTY, AT CULVERT ON STUART ROAD, AT STURTEVANT, WIS., AND 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH.	0.53	09-19-74	4.66	

STREAMS TRIBUTARY TO LAKE MICHIGAN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	PIKE RIVER BASIN--CONTINUED				
PIKE RIVER	SE 1/4 SE 1/4 SEC.22, T.3 N., R.22 E., RACINE COUNTY, AT BRIDGE ON STATE HIGHWAY 11, 1.3 MI (2.1 KM) EAST OF STURTEVANT, WIS.	11.0	09-19-74	4.95	
PIKE RIVER TRIBUTARY	SE 1/4 SW 1/4 SEC.27, T.3 N., R.22 E., RACINE COUNTY, ON PRIVATE ROAD, 0.6 MI (1.0 KM) ABOVE MOUTH, 1.3 MI (2.1 KM) SOUTHEAST OF STURTEVANT, WIS.	1.10	09-19-74	0.00	0.00
PIKE RIVER TRIBUTARY	SE 1/4 NE 1/4 SEC.33, T.3 N., R.22 E., RACINE COUNTY, ON COUNTY TRUNK HIGHWAY EA, 1.5 MI (2.4 KM) SOUTH OF STURTEVANT, WIS.	1.08	09-19-74	0.00	0.00
PIKE RIVER	NW 1/4 SW 1/4 SEC.2, T.2 N., R.22 E., KENOSHA COUNTY, AT BRIDGE ON STATE HIGHWAY 31, 3.0 MI (4.8 KM) SOUTHEAST OF STURTEVANT, WIS.	17.9	09-19-74	4.97	
PIKE RIVER	NW 1/4 SW 1/4 SEC.27, T.2 N., R.22 E., AT STATE HIGHWAY 43, 3.9 MI (6.3 KM) NORTHWEST OF DOWNTOWN KENOSHA, WIS.	7.35	09-19-74	0.00	0.00

WISCONSIN RIVER BASIN

A SERIES OF BASE-FLOW DISCHARGE MEASUREMENTS WAS MADE IN THE WILLOW CREEK BASIN MAY 7, 1974. IN THE WEEK PRIOR TO THE MEASUREMENTS, WEATHER RECORDS AT RICHLAND CENTER INDICATE 0.08 IN (2.0 MM) OF PRECIPITATION ON MAY 5. BASED ON WEATHER RECORDS AND RECORDED STREAMFLOW DATA IN THE REGION, THE DISCHARGE MEASUREMENTS ARE CONSIDEREO TO REPRESENT HIGH-RANGE BASE FLOW.

WILLOW CREEK AND TRIBUTARIES

WILLOW CREEK	SW 1/4 SE 1/4 SEC.10, T.11 N., R.2 E., RICHLAND COUNTY,0.3 MI (0.5 KM) UPSTREAM FROM STATE HIGHWAY 58 BRIDGE, 1.2 MI (1.9 KM) NORTH OF LOYD, WIS.	8.91	05-07-74	4.59	.52
HAPPY HOLLOW	NE 1/4 NW 1/4 SEC.15, T.11 N., R.2 E., RICHLAND COUNTY, AT MOUTH, 1.0 MI (1.6 KM) NORTH OF LOYD, WIS.	5.25	05-07-74	3.89	.74
SMITH HOLLOW	SW 1/4 SW 1/4 SEC.14, T.11 N., R.2 E., RICHLAND COUNTY,200 FT (60 M) ABOVE BRIDGE ON PRIVATE ROAD, 1.4 MI (2.2 KM) EAST OF LOYD, WIS.	3.72	05-07-74	0.86	.23
SMITH HOLLOW TRIBUTARY	NE 1/4 NW 1/4 SEC.24, T.11 N., R.2 E., RICHLAND COUNTY, .6 MI (1.0 KM) UPSTREAM FROM SMITH HOLLOW CREEK, AND 2.0 MI (3.2 KM) EAST OF LOYD, WIS.	3.42	05-07-74	0.75	.22
WILLOW CREEK TRIBUTARY	SE 1/4 SE 1/4 SEC.22, T.11 N., R.2 E., RICHLAND COUNTY, AT MOUTH, 0.9 MI (1.4 KM) SOUTHEAST OF LOYD, WIS.	9.92	05-07-74	4.63	.47
LOST HOLLOW	SE 1/4 SW 1/4 SEC.26, T.11 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON FARM DRIVE, 1.0 MI (1.6 KM) ABOVE MOUTH, 1.9 MI (3.1 KM) SOUTHEAST OF LOYD, WIS.	2.79	05-07-74	1.22	.44
WHEAT HOLLOW CREEK	NW 1/4 NW 1/4 SEC.34, T.11 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.1 MI (0.2 KM) UPSTREAM FROM MOUTH, 2.1 MI (3.4 KM) SOUTH OF LOYD, WIS.	2.97	05-07-74	1.03	.35
WILLOW CREEK	SW 1/4 NW 1/4 SEC.20, T.15 N., R.2 E., RICHLANO COUNTY, AT JUNCTION WITH LITTLE WILLOW CREEK, 5.0 MI (8.0 KM) EAST OF RICHLANO CENTER, WIS.	54.6	05-07-74	40.5	.74

WISCONSIN RIVER BASIN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	WILLOW CREEK AND TRIBUTARIES--CONTINUED				
LITTLE WILLOW CREEK	SW 1/4 NW 1/4 SEC.6, T.10 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 2.0 MI (3.2 KM) WEST OF NEPTUNE, WIS.	6.71	05-07-74	3.42	.51
LITTLE WILLDW CREEK TRIBUTARY	SE 1/4 SW 1/4 SEC.7, T.10 N., R.2 E., RICHLAND COUNTY, AT MOUTH, 1.4 MI (2.2 KM) NORTHWEST OF ITHACA, WIS.	2.32	05-07-74	1.12	.48
LITTLE WILLOW CREEK	SW 1/4 NW 1/4 SEC.20, T.10 N., R.2 E., RICHLAND COUNTY, AT MOUTH, 5.0 MI (8.0 KM) EAST OF RICHLAND CENTER, WIS.	13.9	05-07-74	6.84	.49
HELL HOLLOW	NE 1/4 SE 1/4 SEC.30, T.10 N., R.2 E., RICHLAND COUNTY, AT COUNTY TRUNK HIGHWAY B BRIDGE, 0.8 MI (1.3 KM) ABOVE MOUTH, AND 0.2 MI (0.3 KM) SOUTH OF AUBREY, WIS.	2.77	05-07-74	0.00	0.00
NEBRASKA HOLLOW	NW 1/4 SE 1/4 SEC.31, T.10 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY B, 0.2 MI (0.3 KM) UPSTREAM FROM MOUTH, AND 1.3 MI (2.1 KM) NORTH OF SEXTONVILLE, WIS.	2.30	05-07-74	0.46	.20
WILLOW CREEK TRIBUTARY	SW 1/4 SE 1/4 SEC.6, T.9 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY B, 0.1 MI (0.2 KM) ABOVE MOUTH, AT SEXTONVILLE, WIS.	2.93	05-07-74	0.36	.12
WILLOW CREEK	SW 1/4 SEC.6, T.9 N., R.2 E., RICHLAND COUNTY, 100 FT (30 M) UPSTREAM FROM BRIDGE ON U. S. HIGHWAY 14, 6.0 MI (9.7 KM) SOUTHEAST OF RICHLAND CENTER, WIS.	82.3	05-07-74	56.3	.68

PINE RIVER BASIN LOW-FLOW INVESTIGATIONS

A SERIES OF BASE-FLOW DISCHARGE MEASUREMENTS WAS MADE IN THE PINE RIVER BASIN DURING THE PERIOD JUNE 3-4, 1974. IN THE WEEKS PRIOR TO THE MEASUREMENTS, WEATHER RECORDS AT RICHLAND CENTER INDICATE AN AVERAGE OF 0.22 IN (5.6 MM) OF PRECIPITATION IN THE AREA. BA5ED ON WEATHER RECORDS AND RECDRDED STREAMFLOW DATA IN THE REGION, THE DISCHARGE MEASUREMENTS ARE CONSIDERED TO REPRESENT HIGH-RANGE BASE FLOW.

PINE RIVER AND TRIBUTARIES

PINE RIVER	NW 1/4 SW 1/4 SEC.1, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON PRIVATE ROAD, 0.9 MI (1.4 KM) NORTHWEST OF YUBA, WIS.	9.68	06-03-74	6.09	.63
PINE RIVER TRIBUTARY	NE 1/4 NE 1/4 SEC.1, T.12 N., R.1 W., RICHLAND COUNTY, JUST ABOVE CONFLUENCE WITH UNNAMED TRIBUTARY, AND 0.9 MI (1.4 KM) NORTH OF YUBA, WIS.	7.37	06-03-74	4.52	.61
TRIBUTARY TO PINE RIVER TRIBUTARY	NE 1/4 NE 1/4 SEC.1, T.12 N., R.1 W., RICHLAND COUNTY, AT MOUTH, AND 0.9 MI (1.4 KM) NORTH OF YUBA, WIS.	8.13	06-03-74	4.80	.59
PINE RIVER	SW 1/4 SW 1/4 SEC.6, T.12 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 80, AT YUBA, WIS.	27.2	06-03-74	18.6	.68
INDIAN CREEK	SW 1/4 SE 1/4 SEC.7, T.12 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON TOWN ROAO, AND 1.1 MI (1.8 KM) SOUTHEAST OF YUBA, WIS.	2.59	06-03-74	1.62	.62

WISCONSIN RIVER BASIN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	PINE RIVER AND TRIBUTARIES--CONTINUED				
PINE RIVER	SW 1/4 NW 1/4 SEC.27, T.12 N., R.1 E., RICHLAND COUNTY, APPROXIMATELY 1100 FT (330 M) NORTHEAST OF JUNCTION OF COUNTY TRUNK HIGHWAY C WITH STATE HIGHWAY 80, AND 40 FT (12 M) EAST OF STATE HIGHWAY 80, AND .2 MI (0.3 KM) UPSTREAM FROM CONFLUENCE WITH MELANCTHON CREEK.	41.2	06-03-74	31.8	.77
MELANCTHON CREEK	NE 1/4 NE 1/4 SEC.3, T.12 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY C, 3.8 MI (6.1 KM) NORTHEAST OF YUBA, WIS.	1.93	06-03-74	1.53	.79
MELANCTHON CREEK	NE 1/4 NE 1/4 SEC.10, T.12 N., R.1 E., RICHLAND COUNTY, APPROXIMATELY 500 FT (150 M) NORTH OF PRIVATE FARM DRIVE, APPROXIMATELY 100 FT (30 M) EAST OF COUNTY TRUNK HIGHWAY C, AND 0.3 MI (0.5 KM) UPSTREAM FROM MOUTH OF GRINSELL CREEK.	4.66	06-03-74	3.98	.85
MELANCTHON CREEK	SE 1/4 NW 1/4 SEC.27, T.12 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY C, 1.3 MI (2.1 KM) NORTH OF HUB CITY, WIS.	14.3	06-03-74	13.2	.92
SOULES CREEK	NW 1/4 SE 1/4 SEC.34, T.12 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 80, AT HUB CITY, WIS.	4.40	06-03-74	3.01	.68
HAWKINS CREEK	SW 1/4 NE 1/4 SEC.3, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON PRIVATE ROAD, 0.7 MI (1.1 KM) SOUTH OF HUB CITY, WIS.	15.2	06-03-74	14.1	.93
WEST BRANCH PINE RIVER	NW 1/4 NW 1/4 SEC.15, T.12 N., R.1 W., RICHLAND COUNTY, ABOUT 500 FT (150 M) BELOW MOUTH OF BASSWOOD CREEK, 2.2 MI (3.5 KM) NORTHWEST OF BLOOM CITY, WIS.	10.5	06-04-74	6.89	.66
WEST BRANCH PINE RIVER	NE 1/4 NE 1/4 SEC.22, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.2 MI (0.3 KM) WEST OF COUNTY TRUNK HIGHWAY D, AND 1.0 MI (1.6 KM) NORTHWEST OF BLOOM CITY, WIS.	13.0	06-04-74	9.01	.69
WEST BRANCH PINE RIVER	NE 1/4 NW 1/4 SEC.26, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY H, AT BLOOM CITY, WIS.	14.6	06-04-74	10.8	.74
GAULT HOLLOW	NE 1/4 SE 1/4 SEC.28, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY I, ABOUT 0.1 MI (0.2 KM) UPSTREAM FROM HYNEK HOLLOW TRIBUTARY, AND 1.4 MI (2.2 KM) SOUTHWEST OF BLOOM CITY, WIS.	2.46	06-04-74	2.33	.95
HYNEK HOLLOW	SE 1/4 SE 1/4 SEC.28, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.2 MI (0.3 KM) SOUTH OF COUNTY TRUNK HIGHWAY I, 0.5 MI (0.8 KM) UPSTREAM FROM CONFLUENCE WITH GAULT HOLLOW TRIBUTARY, AND 1.7 MI (2.7 KM) SOUTHWEST OF BLOOM CITY, WIS.	2.59	06-04-74	1.57	.61
WEST BRANCH PINE RIVER TRIBUTARY	NW 1/4 SW 1/4 SEC.26, T.12 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY H, 0.5 MI (0.8 KM) SOUTH OF BLOOM CITY, WIS.	6.12	06-04-74	5.29	.86
WEST BRANCH PINE RIVER	NE 1/4 NE 1/4 SEC.9, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY D, 0.5 MI (0.8 KM) WEST OF ROCK BRIDGE, WIS.	37.6	06-03-74	30.7	.82

WISCONSIN RIVER BASIN

STREAM	LOCATION	DRAINAGE AREA (MI²)	MEASURED DISCHARGE DATE	FT³/S	(FT³/S)/MI²
	PINE RIVER AND TRIBUTARIES--CONTINUED				
PINE RIVER	SE 1/4 NW 1/4 SEC.10, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 80, AT ROCKBRIDGE, WIS.	117	06-03-74	102	.87
SOUTH BUCK CREEK	NE 1/4 NW 1/4 SEC.22, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 80, AT BUCK CREEK, WIS.	4.95	06-03-74	2.08	.42
PINE RIVER	NE 1/4 NW 1/4 SEC.27, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 80, 1.0 MI (1.6 KM) SOUTH OF BUCK CREEK, WIS.	128	06-03-74	111	.87
FANCY CREEK	NE 1/4 SW 1/4 SEC.4, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 56, 3.2 MI (5.1 KM) SOUTHWEST OF BLOOM CITY, WIS.	4.14	06-03-74	1.94	.47
FANCY CREEK	SW 1/4 NE 1/4 SEC.10, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY H, 2.2 MI (3.5 KM) NORTHWEST OF GILLINGHAM, WIS.	6.67	06-03-74	4.11	.62
FANCY CREEK	SW 1/4 NE 1/4 SEC.14, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY Z, NEAR GILLINGHAM, WIS.	8.60	06-04-74	5.65	.66
TRIBUTARY TO FANCY CREEK	NW 1/4 NE 1/4 SEC.16, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON PRIVATE DRIVE, 2.7 MI (4.3 KM) NORTHWEST OF GILLINGHAM, WIS.	1.59	06-03-74	.73	.46
TRIBUTARY TO FANCY CREEK	SW 1/4 NW 1/4 SEC.15, T.11 N., R.1 W., RICHLAND COUNTY, 100 FT (30 M) NORTHEAST AND ALONG SIDE OF COUNTRY ROAD, 2.2 MI (3.5 KM) WEST OF GILLINGHAM, WIS.	2.20	06-03-74	1.02	.46
TRIBUTARY TO FANCY CREEK TRIBUTARY	SW 1/4 NW 1/4 SEC.22, T.11 N., R.1 W., RICHLAND COUNTY, 200 FT (60 M) BELOW CONFLUENCE OF UNNAMED TRIBUTARIES, 2.1 MI (3.4 KM) SOUTHWEST OF GILLINGHAM, WIS.	2.13	06-03-74	1.45	.68
TRIBUTARY TO FANCY CREEK TRIBUTARY	SE 1/4 SE 1/4 SEC.15, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY Z, 1.3 MI (2.1 KM) WEST OF GILLINGHAM, WIS.	2.73	06-03-74	1.83	.67
FANCY CREEK TRIBUTARY	SW 1/4 SW 1/4 SEC.14, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON PRIVATE ROAD, 1.0 MI (1.6 KM) WEST OF GILLINGHAM, WIS.	6.21	06-04-74	3.65	.59
FANCY CREEK TRIBUTARY	NW 1/4 SW 1/4 SEC.13, T.11 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 56, AT GILLINGHAM, WIS.	2.28	06-04-74	1.62	.71
FANCY CREEK	NE 1/4 SE 1/4 SEC.32, T.11 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 56 AND 80, 3.5 MI (5.6 KM) NORTH OF RICHLAND CENTER, WIS.	28.4	06-03-74	20.2	.71
HORSE CREEK	NW 1/4 NW 1/4 SEC.1, T.10 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.1 MI (0.2 KM) SOUTH OF COUNTY TRUNK HIGHWAY A, 3.5 MI (5.6 KM) SOUTH OF GILLINGHAM, WIS.	3.44	06-03-74	2.50	.73
TRIBUTARY TO HORSE CREEK	SW 1/4 NW 1/4 SEC.1, T.10 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.4 MI (0.6 KM) SOUTH OF COUNTY TRUNK HIGHWAY A, 3.7 MI (6.0 KM) SOUTH OF GILLINGHAM, WIS.	1.47	06-03-74	1.02	.69

WISCONSIN RIVER BASIN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	PINE RIVER AND TRIBUTARIES--CONTINUED				
HORSE CREEK	SE 1/4 NW 1/4 SEC.6, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTRY ROAD, 0.1 MI (0.2 KM) SOUTH OF COUNTY TRUNK HIGHWAY A, 2.9 MI (4.7 KM) NORTHWEST OF RICHLAND CENTER, WIS.	7.42	06-03-74	4.58	.62
HORSE CREEK	SW 1/4 SE 1/4 SEC.5, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 56 AND 80, 2.2 MI (3.5 KM) NORTH OF RICHLAND CENTER, WIS.	8.90	06-03-74	5.70	.64
BRUSH CREEK	NW 1/4 NW 1/4 SEC.13, T.10 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON DEADEND TOWNSHIP ROAD, 0.1 MI (0.2 KM) NORTH OF U. S. HIGHWAY 14, AND 3.1 MI (5.0 KM) WEST OF RICHLAND CENTER, WIS.	1.29	06-03-74	.85	.66
TRIBUTARY TO BRUSH CREEK	NE 1/4 NW 1/4 SEC.13, T.10 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON U. S. HIGHWAY 14, 2.9 MI (4.7 KM) WEST OF RICHLAND CENTER, WIS.	1.32	06-03-74	1.08	.82
BRUSH CREEK	NE 1/4 NE 1/4 SEC.13, T.10 N., R.1 W., RICHLAND COUNTY, AT BRIDGE ON PRIVATE ROAD, 2.5 MI (4.0 KM) WEST OF RICHLAND CENTER, WIS.	3.13	06-03-74	2.55	.81
BRUSH CREEK	SW 1/4 NE 1/4 SEC.17, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON PRIVATE ROAD IN RICHLAND CENTER, WIS.	6.77	06-03-74	4.03	.60
CENTER CREEK	SW 1/4 NE 1/4 SEC.20, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE, IN RICHLAND CENTER, WIS.	2.57	06-03-74	1.32	.51
ROCKY BRANCH	NE 1/4 SE 1/4 SEC.29, T.10 N., R.1 E., RICHLAND COUNTY, AT CULVERT ON STATE HIGHWAY 80, 1.5 MI (2.4 KM) SOUTH OF RICHLAND CENTER, WIS.	1.68	06-03-74	.64	.38
PINE RIVER	NW 1/4 SE 1/4 SEC.28, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON BOHMANN DRIVE, 0.1 MI (0.2 KM) SOUTH OF WRCO RADIO TOWER, AND AT SOUTHERN EDGE OF RICHLAND CENTER CORPORATE LIMITS.	194	06-04-74	152	.78
SPRING CREEK	NE 1/4 SW 1/4 SEC.26, T.10 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON U. S. HIGHWAY 14, 2.7 MI (4.3 KM) SOUTHEAST OF RICHLAND CENTER, WIS.	2.74	06-04-74	.81	.30
ASH CREEK	NE 1/4 SE 1/4 SEC.36, T.10 N., R.1 W., RICHLAND COUNTY, AT WOODEN BRIDGE ON PRIVATE DRIVE, 0.4 MI (0.6 KM) SOUTH OF COUNTY TRUNK HIGHWAY Y, 3.5 MI (5.6 KM) SOUTHWEST OF RICHLAND CENTER, WIS.	3.00	06-03-74	1.25	.42
ASH CREEK	NW 1/4 NE 1/4 SEC.6, T.9 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON U. S. HIGHWAY 80, 3.6 MI (5.8 KM) SOUTHWEST OF RICHLAND CENTER, WIS.	4.04	06-03-74	2.15	.53
ASH CREEK	NW 1/4 NE 1/4 SEC.9, T.9 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY O, 4.3 MI (6.9 KM) SOUTH OF RICHLAND CENTER, WIS.	7.95	06-04-74	4.70	.59
ASH CREEK	SE 1/4 NE 1/4 SEC.2, T.9 N., R.1 E., RICHLAND COUNTY, AT BRIDGE ON COUNTY TRUNK HIGHWAY TB, 4.0 MI (6.4 KM) SOUTHEAST OF RICHLAND CENTER, WIS.	18.4	06-04-74	7.40	.40

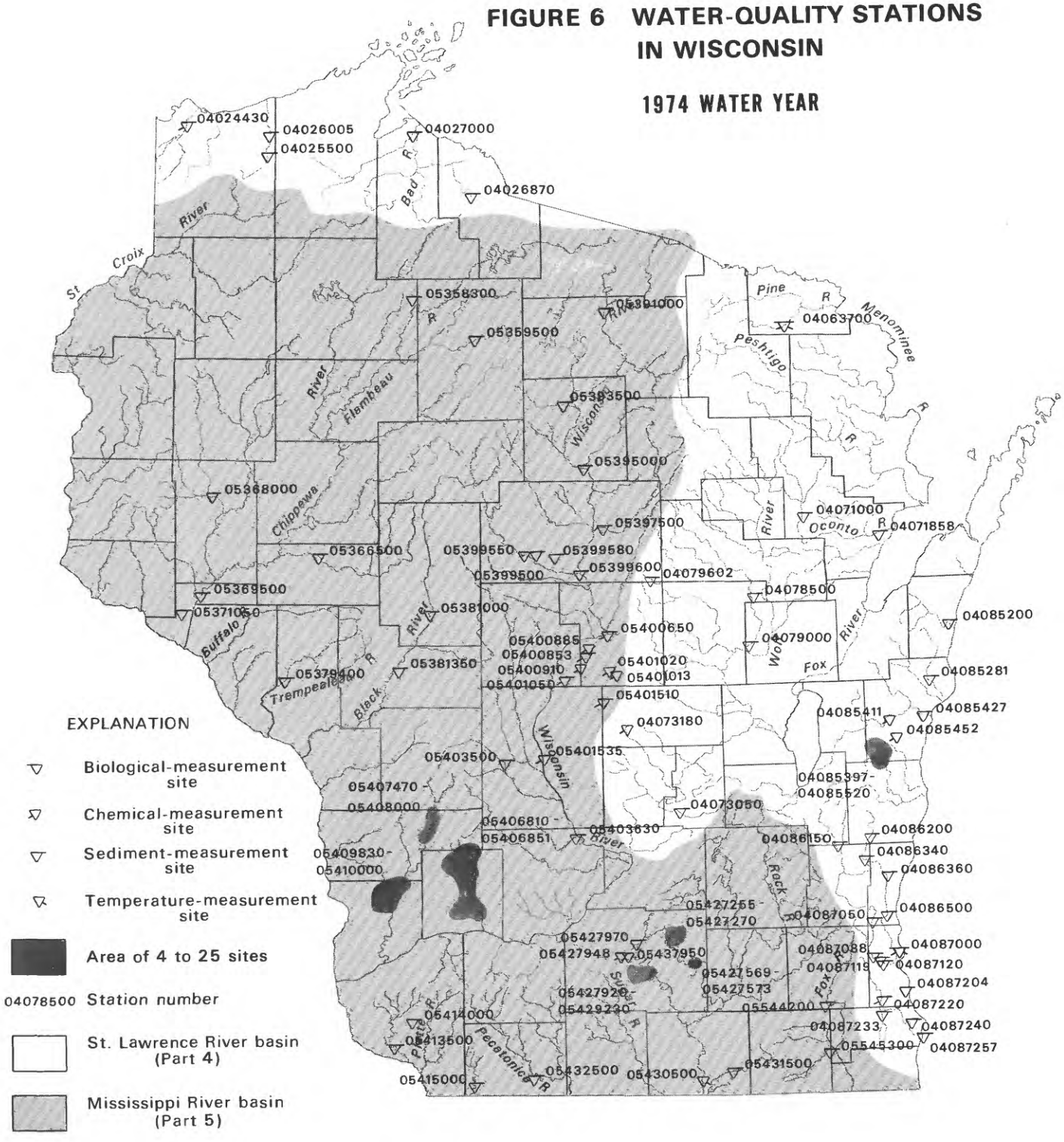
WISCONSIN RIVER BASIN

STREAM	LOCATION	DRAINAGE AREA (MI^2)	MEASURED DISCHARGE DATE	FT^3/S	$(FT^3/S)/MI^2$
	PINE RIVER AND TRIBUTARIES--CONTINUED				
PINE RIVER	NW 1/4 NW 1/4 SEC.7, T.9 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON TOWN ROAD, 0.4 MI (0.6 KM) UPSTREAM FROM CONFLUENCE WITH WILLOW CREEK, AND 0.2 MI (0.3 KM) NORTHEAST OF TWIN BLUFFS, WIS.	224	06-04-74	171	.76
WILLOW CREEK	SW 1/4 SEC.6, T.9 N., R.2 E., RICHLAND COUNTY, 100 FT (30 M) UPSTREAM FROM BRIDGE ON U. S. HIGHWAY 14, 6.0 MI (9.6 KM) SOUTHEAST OF RICHLAND CENTER, WIS.	82.3	06-04-74	58.4	.71
PINE RIVER	SE 1/4 SW 1/4 SEC.30, T.9 N., R.2 E., RICHLAND COUNTY, AT BRIDGE ON STATE HIGHWAY 60, AT GOTHAM, WIS.	320	06-04-74	286	.89

PART 2. WATER QUALITY RECORDS

FIGURE 6 WATER-QUALITY STATIONS IN WISCONSIN

1974 WATER YEAR



EXPLANATION

- Biological-measurement site
- Chemical-measurement site
- Sediment-measurement site
- Temperature-measurement site
- Area of 4 to 25 sites
- 04078500 Station number
- St. Lawrence River basin (Part 4)
- Mississippi River basin (Part 5)

04024430 NEMADJI RIVER NEAR SOUTH SUPERIOR, WIS.

LOCATION.--LAT 46°38'00", LONG 92°05'38", IN SW 1/4 SEC. 14, T.48 N., R.14 W., DOUGLAS COUNTY, AT GAGING STATION ON RIGHT BANK AT DOWNSTREAM SIDE OF BRIDGE ON COUNTY TRUNK HIGHWAY C, 2.0 MI (3.2 KM) SOUTH OF SOUTH SUPERIOR AND 7.8 MI (12.6 KM) DOWNSTREAM FROM BLACK RIVER.

DRAINAGE AREA.--422 MI^2 (1,093 KM^2).

PERIOD OF RECORD.--SEDIMENT RECORDS: APRIL 1974 TO SEPTEMBER 1974.

REMARKS.--CHEMICAL ANALYSES FOR THIS STATION ON PAGE 242. MISCELLANEOUS SEDIMENT DATA ON PAGE 313.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	110	--	--	625	130	219	585	185	292
2	130	--	--	542	135	198	424	110	126
3	150	--	--	856	498	1150	356	115	111
4	190	--	--	824	196	436	341	135	124
5	230	--	--	632	130	222	520	335	470
6	300	--	--	543	102	150	598	466	752
7	400	--	--	467	88	111	3190	1760	15200
8	450	--	--	410	72	80	2120	800	4580
9	500	--	--	366	59	58	1520	534	2190
10	1000	--	--	338	59	54	4120	1910	21200
11	2000	--	--	798	598	1290	4730	855	10900
12	2900	--	--	2270	960	5880	3320	330	2960
13	3500	--	--	1220	385	1270	1630	245	1080
14	3600	--	--	1040	649	1820	1120	195	590
15	3500	--	--	1450	580	2270	814	150	330
16	3500	--	--	1020	262	722	636	137	235
17	3500	--	--	843	202	460	514	101	140
18	3100	--	--	676	147	268	387	64	67
19	2900	--	--	568	113	173	374	61	62
20	2600	--	--	477	89	115	311	60	50
21	2400	--	--	448	82	99	283	60	46
22	2100	518	2940	1400	780	2950	248	60	40
23	1800	320	1560	1030	270	751	217	60	35
24	1300	243	853	686	152	282	192	60	31
25	1000	214	578	544	108	159	169	60	27
26	900	403	979	455	83	102	152	59	24
27	800	570	1230	390	66	69	139	55	21
28	890	335	805	348	60	56	127	51	17
29	766	190	393	318	60	52	117	48	15
30	716	165	319	292	60	47	111	46	14
31	--	--	--	458	335	414	--	--	--
TOTAL	47232	--	--	22334	--	21927	29365	--	61729

04024430 NEMADJI RIVER NEAR SOUTH SUPERIOR, WIS.--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	106	45	13	67	19	3.4	76	27	5.5
2	128	52	18	91	38	9.3	72	23	4.5
3	112	47	14	1050	794	2250	69	13	2.4
4	104	44	12	1490	360	1450	66	9	1.6
5	98	42	11	810	192	420	62	12	2.0
6	93	39	9.8	525	99	140	60	13	2.1
7	88	36	8.6	390	66	69	60	12	1.9
8	82	32	7.1	311	62	52	59	14	2.2
9	84	33	7.5	256	59	41	58	17	2.7
10	109	44	13	215	64	37	63	13	2.2
11	103	44	12	483	396	516	67	15	2.7
12	88	36	8.6	495	94	126	76	13	2.7
13	88	36	8.6	384	63	65	83	12	2.7
14	125	51	17	395	67	71	86	13	3.0
15	152	59	24	364	59	58	83	13	2.9
16	126	65	22	276	59	44	74	12	2.4
17	110	46	14	218	58	34	66	12	2.1
18	103	44	12	172	58	27	61	9	1.5
19	96	41	11	143	56	22	59	9	1.4
20	85	34	7.8	125	51	17	55	6	.89
21	92	38	9.4	112	47	14	54	6	.87
22	157	110	47	102	44	12	56	8	1.2
23	138	130	48	96	41	11	56	7	1.1
24	118	70	22	91	38	9.3	55	6	.89
25	127	51	17	87	35	8.2	57	7	1.1
26	135	54	20	119	142	46	59	13	2.1
27	112	47	14	156	141	59	57	5	.77
28	92	38	9.4	115	66	20	56	4	.60
29	80	30	6.5	94	39	9.9	57	9	1.4
30	74	25	5.0	85	34	7.8	55	8	1.2
31	69	21	3.9	80	30	6.5	--	--	--
TOTAL	3274	--	453.2	9397	--	5655.4	1917	--	60.62

04063700 POPPLE RIVER NEAR FENCE, WIS.
(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--LAT 45°45'49", LONG 88°27'47", IN NW 1/4 SEC.23, T.38 N., R.16 E., FLORENCE COUNTY, TEMPERATURE RECORDER AT GAGING STATION, ON LEFT BANK 20 FT (6M) UPSTREAM FROM BRIDGE ON U.S. FOREST SERVICE ROAD 2159, 1.8 MI (2.9 KM) DOWNSTREAM FROM MUD CREEK, 2.6 MI (4.2 KM) NORTHWEST OF FENCE, AND AT MILE 11.5 (18.5 KM).

DRAINAGE AREA.--131 MI^2 (339 KM^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: OCTOBER 1968 TO SEPTEMBER 1974.
WATER TEMPERATURES: JUNE 1964 TO SEPTEMBER 1974.

EXTREMES.--1973-74:
WATER TEMPERATURES: MAXIMUM, 28.0°C JULY 8, 9, 1974; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER MONTHS.

PERIOD OF RECORD:
WATER TEMPERATURES: MAXIMUM, 29.0°C JULY 1, 2, 1970; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER MONTHS.

REMARKS.--CHEMICAL DATA FOR MISCELLANEOUS SAMPLES ARE PUBLISHED FOR WATER YEARS 1964-67.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT., 1973										
10...	1435	94	11	280	66	20	10	1.9	.9	103
NOV.										
06...	1400	129	13	360	77	14	8.9	1.0	.7	76
JAN., 1974										
07...	1500	37	15	--	--	12	10	22	1.2	128
FEB.										
28...	1200	47	15	--	--	23	13	2.2	1.2	133
MAR.										
28...	1410	43	14	--	--	25	14	2.4	1.0	132
APR.										
22...	1540	488	--	--	--	--	--	--	--	--
JUNE										
04...	1400	114	5.0	--	--	14	6.3	1.3	.5	64
24...	1430	63	--	--	--	--	--	--	--	--
JULY										
22...	1530	56	8.1	--	--	25	12	1.6	.9	119
AUG.										
27...	1500	111	11	--	--	16	8.6	2.2	1.4	88

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT., 1973										
10...	0	84	4.2	2.0	.3	--	.07	.30	--	.01
NOV.										
06...	0	62	3.4	2.0	--	.02	.10	.60	--	--
JAN., 1974										
07...	0	105	7.6	3.2	.2	--	--	--	.41	.00
FEB.										
28...	0	109	8.2	3.2	.1	--	--	--	.19	.01
MAR.										
28...	0	108	7.9	2.4	.8	--	--	--	.16	.00
APR.										
22...	--	--	--	--	--	--	--	--	--	--
JUNE										
04...	0	53	7.5	2.5	.4	--	--	--	.01	.00
24...	--	--	--	--	--	--	--	--	--	--
JULY										
22...	0	98	6.4	1.9	.5	--	--	--	.01	.02
AUG.										
27...	0	72	6.1	2.1	.4	--	--	--	.01	.04

04063700 POPPLE RIVER NEAR FENCE, WIS.--CONTINUED

WATER QUALITY DATA

DATE	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT., 1973										
10...	.04	112	102	.15	28.5	92	8	4	.1	170
NOV.										
06...	.05	132	81	.18	46.0	72	10	3	.1	135
JAN., 1974										
07...	--	156	134	.21	15.6	71	0	40	1.1	180
FEB.										
28...	--	159	131	.22	20.3	110	2	4	.1	230
MAR.										
28...	--	150	133	.20	17.4	120	12	4	.1	180
APR.										
22...	--	--	--	--	--	--	--	--	--	80
JUNE										
04...	--	104	69	.14	32.0	61	8	.4	.1	120
24...	--	--	--	--	--	--	--	--	--	160
JULY										
22...	--	146	115	.20	22.1	110	14	3	.1	198
AUG.										
27...	--	156	91	.21	46.8	75	3	6	.1	180

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT., 1973									
10...	7.4	9.0	28	8.8	80	6.6	1100	<10	--
NOV.									
06...	7.4	.0	100	11.5	83	4.8	130	B10	B7
JAN., 1974									
07...	6.9	.0	--	9.1	65	26	100	<10	2
FEB.									
28...	7.1	.0	--	12.6	91	17	--	--	--
MAR.									
28...	7.5	.0	--	11.2	81	6.7	B14	B2	B2
APR.									
22...	6.6	6.5	--	9.1	77	--	--	18	12
JUNE									
04...	7.5	17.5	--	9.0	98	3.2	88	28	41
24...	7.8	17.0	--	9.8	105	--	53	20	22
JULY									
22...	7.9	19.5	--	8.9	101	2.4	250	B40	--
AUG.									
27...	7.4	18.5	--	8.6	96	5.6	600	B18	780

DATE	TIME	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
NOV., 1973									
06...	1400	.60	1.3	<.4	3.2	<.4	3.8	<.4	.02

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

04063700 POPPLE RIVER NEAR FENCE, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	13.5	11.0	4.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	13.5	11.0	4.0	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	13.5	12.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	12.0	9.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	11.0	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	10.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	13.5	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	13.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	14.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	14.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	13.5	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	11.0	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	11.0	9.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	9.0	6.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	6.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	8.0	5.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.5	6.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	8.5	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	10.0	6.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	10.5	9.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	11.0	9.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11.0	10.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	10.5	9.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	9.5	6.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
29	5.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
30	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	5.0	4.5	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	22.0	17.0	19.5	16.5	15.0	12.0
2	---	---	---	---	---	---	23.0	19.5	19.5	18.0	14.5	13.0
3	---	---	---	---	---	---	23.5	21.0	18.0	16.5	14.0	11.5
4	---	---	---	---	19.0	18.0	23.5	20.5	18.0	16.5	14.5	11.0
5	---	---	---	---	20.5	16.5	22.0	18.0	19.0	15.5	15.5	12.0
6	---	---	---	---	19.5	18.0	25.0	20.5	19.5	16.5	15.0	13.0
7	---	---	---	---	18.5	16.5	26.0	21.5	20.0	18.0	14.5	13.5
8	---	---	---	---	20.0	15.0	28.0	23.0	20.0	18.0	16.5	13.5
9	---	---	---	---	19.0	14.5	28.0	25.0	21.0	18.5	16.0	11.5
10	---	---	---	---	14.5	13.0	27.0	24.5	20.5	19.0	13.5	11.0
11	---	---	---	---	14.0	10.5	24.5	20.5	21.0	19.5	16.5	13.5
12	---	---	---	---	14.5	12.0	23.5	20.0	20.5	18.5	16.5	16.5
13	---	---	---	---	16.0	13.0	27.0	21.5	21.0	18.5	16.5	16.5
14	---	---	---	---	15.5	14.0	27.0	24.5	21.0	19.0	16.5	16.5
15	---	---	---	---	14.5	12.0	26.0	22.0	21.0	18.0	16.5	16.5
16	---	---	---	---	12.0	10.5	24.0	20.0	22.0	19.0	16.5	14.5
17	---	---	---	---	10.5	10.0	24.0	21.0	21.5	18.5	14.5	11.5
18	---	---	---	---	13.5	10.0	26.5	21.5	21.0	19.0	13.0	10.0
19	---	---	---	---	16.5	12.0	26.5	24.0	23.0	18.5	13.5	12.0
20	---	---	---	---	18.5	15.0	25.5	21.5	23.5	20.0	12.0	10.5
21	---	---	---	---	21.0	16.5	24.5	19.0	23.0	21.0	11.0	9.0
22	---	---	---	---	20.0	17.0	22.0	18.0	24.5	21.0	9.0	7.0
23	---	---	---	---	17.0	14.5	23.5	19.5	23.5	19.5	8.5	5.5
24	---	---	---	---	18.5	13.0	23.5	20.5	19.5	16.5	10.5	8.0
25	---	---	---	---	20.0	15.0	21.0	19.5	20.5	18.0	11.5	10.0
26	---	---	---	---	21.5	15.5	23.5	19.0	22.0	19.0	13.5	10.0
27	---	---	---	---	23.5	18.0	23.0	19.0	21.5	18.0	15.0	11.0
28	---	---	---	---	23.5	19.0	23.0	19.5	18.0	15.0	14.5	10.5
29	---	---	---	---	23.0	19.5	22.0	19.5	18.0	15.5	10.5	9.5
30	---	---	---	---	21.0	16.5	20.5	18.0	18.0	14.5	10.0	8.5
31	---	---	---	---	---	---	19.0	17.0	15.5	14.0	---	---

04063700 POPPLE RIVER NEAR FENCE, WIS.--CONTINUED

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT., 1973					
10...	1720	14.5	105	3	.85
NOV.					
06...	1235	--	129	3	1.2
JAN., 1974					
07...	1330	--	86	3	.70
FEB.					
28...	1130	--	68	0	.00
MAR.					
28...	1220	--	48	3	.45
APR.					
22...	1200	--	435	3	3.5
JUNE					
04...	1355	--	118	2	.80
06...	1330	--	95	4	1.2
07...	1230	--	112	10	3.0
09...	1105	--	160	12	5.4
13...	1330	--	190	5	2.6
16...	1010	--	190	7	3.6
20...	1545	--	145	3	1.4
24...	1320	--	68	2	.37
27...	1110	--	49	2	.26
JULY					
02...	1000	--	52	2	.28
08...	1830	--	39	4	.42
15...	1200	--	49	24	3.2
22...	1530	19.5	56	1	.15
29...	1200	--	60	2	.32
AUG.					
04...	1430	--	170	2	.92
12...	0930	--	103	2	.56
14...	1245	--	74	3	.60
19...	1900	--	88	3	.71
26...	1915	--	53	2	.29
SEP.					
02...	1600	--	34	8	.75
10...	1130	--	165	8	3.6
16...	1800	--	152	6	2.5
24...	1100	--	56	10	1.5
30...	1715	--	74	2	.40

04085500 CEDAR LAKE NEAR KIEL, WIS.

LOCATION (REVISED).--LAT 43°55'35", LONG 87°56'23", AT GAGING STATION IN SW 1/4 SEC.5, T.17 N., R.21 E., MANITOWOC COUNTY, ON NORTH SHORE OF CEDAR LAKE AT PUBLIC BEACH, 0.8 MI (1.3 KM) SOUTHEAST OF LOUIS CORNERS, AND 5.1 MI (8.2 KM) NORTHEAST OF KIEL.

DRAINAGE AREA.--1.33 MI^2 (3.44 KM^2).

PERIOD OF RECORD.--MAY TO SEPTEMBER 1974.

EXTREMES.--1974:
WATER TEMPERATURES: MAXIMUM RECORDED, 27.5°C JULY 16; MINIMUM RECORDED, 10.0 MAY 14.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	12.0	11.5	11.5
9	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
10	---	---	---	---	---	---	---	---	---	14.0	11.5	12.5
11	---	---	---	---	---	---	---	---	---	13.5	12.0	12.5
12	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
13	---	---	---	---	---	---	---	---	---	11.5	10.5	11.0
14	---	---	---	---	---	---	---	---	---	12.5	10.0	11.5
15	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
16	---	---	---	---	---	---	---	---	---	12.0	11.5	12.0
17	---	---	---	---	---	---	---	---	---	14.5	11.5	13.0
18	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
19	---	---	---	---	---	---	---	---	---	14.5	11.0	12.5
20	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
21	---	---	---	---	---	---	---	---	---	17.5	13.5	15.0
22	---	---	---	---	---	---	---	---	---	18.0	15.5	16.5
23	---	---	---	---	---	---	---	---	---	18.5	16.5	17.5
24	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
25	---	---	---	---	---	---	---	---	---	17.0	15.0	16.0
26	---	---	---	---	---	---	---	---	---	19.0	15.5	17.0
27	---	---	---	---	---	---	---	---	---	18.0	16.0	16.5
28	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
29	---	---	---	---	---	---	---	---	---	17.5	16.5	17.0
30	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
31	---	---	---	---	---	---	---	---	---	17.5	16.5	17.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	16.5	18.0	24.0	22.5	23.0	25.0	23.5	24.0	23.0	20.5	21.5
2	20.0	18.0	19.0	24.0	21.5	23.0	24.5	23.0	23.5	21.5	20.0	20.5
3	19.0	18.0	18.5	25.0	23.0	24.0	24.5	23.0	23.5	21.5	19.5	20.0
4	21.0	17.5	19.0	24.5	24.0	24.5	23.5	23.0	23.0	22.0	18.5	20.0
5	22.0	19.5	20.5	---	---	---	24.0	22.0	23.0	21.0	19.0	20.0
6	21.5	20.0	21.0	---	---	---	24.5	22.5	23.5	21.0	19.5	20.0
7	21.0	20.0	20.5	---	---	---	25.0	23.0	24.0	20.0	19.0	19.5
8	23.0	19.5	21.0	---	---	---	25.5	23.5	24.5	21.5	19.0	20.0
9	22.0	20.0	21.0	27.0	26.5	27.0	25.5	23.5	24.5	22.5	20.0	21.0
10	21.0	19.5	20.5	26.5	25.0	26.0	24.0	23.5	23.5	21.5	20.5	21.0
11	20.5	18.5	19.5	26.5	24.0	25.0	24.5	23.0	24.0	22.5	20.5	21.5
12	20.5	18.5	20.0	25.5	24.0	25.0	23.5	22.5	23.0	22.0	20.5	21.0
13	21.5	19.5	20.5	27.0	24.0	25.5	25.0	22.5	23.5	20.0	18.5	19.5
14	21.5	20.5	21.0	27.5	26.0	27.0	24.5	23.0	23.5	20.0	18.0	18.5
15	21.5	20.0	20.5	27.5	26.0	26.5	25.5	23.0	24.0	20.0	17.5	18.5
16	20.0	18.5	19.0	27.5	25.5	27.0	24.0	22.5	23.5	19.5	17.5	18.5
17	18.5	17.5	18.0	26.0	25.0	25.5	24.0	22.5	23.0	19.0	17.5	18.0
18	18.5	17.5	18.0	26.0	24.5	25.5	24.0	22.5	23.5	19.5	16.5	18.0
19	21.0	17.5	19.0	27.0	25.0	26.0	26.0	23.5	24.5	18.0	17.0	17.5
20	23.5	20.0	21.5	26.5	24.5	25.5	25.5	24.0	24.5	18.0	16.5	17.5
21	23.0	21.5	22.0	26.0	24.5	25.0	26.0	23.5	24.5	17.5	15.5	17.0
22	21.5	20.5	21.0	24.5	23.0	23.5	25.0	24.0	24.0	17.0	15.0	15.5
23	20.5	19.0	20.0	25.5	23.0	24.0	24.0	23.5	23.5	15.0	14.0	14.5
24	20.5	18.5	19.5	25.5	23.5	24.5	24.0	22.5	23.0	14.5	13.5	14.0
25	21.0	19.0	20.0	24.5	23.5	23.5	24.5	22.0	23.0	15.5	13.5	14.5
26	22.5	19.5	21.0	25.0	23.0	24.0	24.5	22.5	23.5	16.0	13.0	14.5
27	23.5	20.5	22.0	25.5	24.0	24.5	24.5	23.5	24.0	16.5	14.5	15.5
28	24.5	21.5	23.0	25.0	24.0	24.5	24.0	22.5	23.5	16.5	15.5	16.0
29	23.5	22.0	22.5	25.0	23.5	24.0	23.5	22.0	23.0	15.5	14.0	15.0
30	24.0	22.0	23.0	24.0	23.0	23.5	23.5	21.5	22.5	14.5	13.0	13.5
31	---	---	---	24.5	22.5	23.5	23.0	21.0	22.0	---	---	---

04087000 MILWAUKEE RIVER AT MILWAUKEE, WIS.

(NATIONAL STREAM QUALITY ACCOUNTING NETWORK STATION)

LOCATION.--LAT 43°06'00", LONG 87°54'32", IN NE 1/4 SEC.5, T.7 N., R.22 E., MILWAUKEE COUNTY, TEMPERATURE RECORDER AT GAGING STATION STATION ON LEFT BANK NEAR NORTHEAST LIMITS OF MILWAUKEE IN ESTABROOK PARK, 2,000 FT (600 M) DOWNSTREAM FROM PORT WASHINGTON ROAD BRIDGE AND 6.6 MI (10.6 KM) UPSTREAM FROM MOUTH.

DRAINAGE AREA.--686 MI^2 (1,777 KM^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: DECEMBER 1972 TO SEPTEMBER 1974.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT., 1973										
12...	0800	859	10	78	39	19	3.7	348	0	285
NOV.										
20...	0800	364	9.0	84	44	18	3.3	363	0	298
DEC.										
26...	0900	760	2.3	74	53	5.6	5.0	321	0	263
JAN., 1974										
23...	1015	599	9.5	69	35	41	3.9	287	0	235
FEB.										
13...	0900	468	12	86	44	29	2.9	364	0	299
MAR.										
13...	0900	2060	8.2	53	28	13	3.9	247	0	203
APR.										
03...	0900	1560	6.5	70	36	21	2.7	292	0	240
MAY										
22...	1030	1810	4.5	57	26	15	2.6	244	0	200
JUNE										
11...	1000	1600	7.2	66	30	17	3.1	263	0	216
JULY										
18...	0800	265	14	61	34	18	2.8	292	12	259
AUG.										
21...	1430	260	.1	52	35	20	3.1	250	20	238
SEP.										
17...	1300	180	.7	57	36	27	3.0	282	19	263

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT., 1973										
12...	47	34	.2	--	1.3	--	--	406	407	.55
NOV.										
20...	63	35	.1	1.2	1.1	2.3	10	450	435	.61
DEC.										
26...	50	74	.2	2.7	1.6	4.3	19	584	422	.79
JAN., 1974										
23...	48	75	.1	2.5	1.2	3.7	16	443	423	.60
FEB.										
13...	51	57	.3	.13	1.2	1.3	5.9	522	462	.71
MAR.										
13...	42	29	.3	--	--	--	--	347	299	.47
APR.										
03...	48	41	1.4	1.8	.85	2.7	12	410	371	.56
MAY										
22...	32	27	.5	.80	2.4	3.2	14	372	285	.51
JUNE										
11...	31	35	.4	2.6	--	--	--	346	319	.47
JULY										
18...	31	32	.4	.00	1.6	1.6	7.1	379	349	.52
AUG.										
21...	34	37	.5	.00	1.3	1.3	5.8	394	325	.54
SEP.										
17...	40	42	.3	.01	1.2	1.2	5.4	404	364	.55

04087000 MILWAUKEE RIVER AT MILWAUKEE, WIS.--CONTINUED

WATER QUALITY DATA

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT., 1973										
12...	942	350	70	10	.4	663	8.0	18.0	--	8.0
NOV.										
20...	442	390	93	9	.4	425	8.1	5.0	5	11.1
DEC.										
26...	1200	400	140	3	.1	425	7.9	1.5	40	12.2
JAN., 1974										
23...	716	320	81	22	1.0	370	7.8	.0	10	13.8
FEB.										
13...	660	400	97	14	.6	400	8.1	.0	2	12.6
MAR.										
13...	1930	250	45	10	.4	547	8.1	2.0	5	12.3
APR.										
03...	1730	320	84	12	.5	563	8.4	6.0	8	11.4
MAY										
22...	1820	250	49	11	.4	525	7.9	17.0	100	7.8
JUNE										
11...	1500	290	73	11	.4	458	7.8	17.5	20	8.3
JULY										
18...	271	290	33	12	.5	534	8.9	27.0	6	6.0
AUG.										
21...	277	270	36	14	.5	550	8.8	25.5	20	8.7
SEP.										
17...	196	290	28	17	.7	619	8.6	18.0	7	5.0

DATE	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT., 1973									
12...	5.6	3000	1800	560	--	--	--	--	3100
NOV.									
20...	4.6	2600	1600	859	--	--	--	--	2300
DEC.									
26...	6.5	1300000	64000	810000	--	--	--	--	2100
JAN., 1974									
23...	7.3	--	36000	5200	--	12	--	--	1200
FEB.									
13...	4.6	--	380	840	--	--	--	--	820
MAR.									
13...	3.1	--	150000	5200	--	--	--	--	9100
APR.									
03...	1.9	--	68000	3600	--	--	--	--	--
MAY									
22...	4.9	--	76000	--	--	--	--	--	3300
JUNE									
11...	6.7	--	--	16000	--	--	--	--	9400
JULY									
18...	.6	--	220	100	2.3	--	25	19	86000
AUG.									
21...	.7	--	270	51	--	--	--	--	44000
SEP.									
17...	1.3	--	170	38	--	--	--	--	22000

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

04087000 MILWAUKEE RIVER AT MILWAUKEE, WIS.--CONTINUED

WATER QUALITY DATA

DATE	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT., 1973										
12...	10	--	7	1.2	<.5	0	--	70	--	60
JAN., 1974										
23...	--	--	0	--	--	--	--	--	--	30
APR.										
03...	--	--	6	.0	.0	--	--	130	130	0
JULY										
18...	31	9	22	--	.1	5	1	30	30	3

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT., 1973											
12...	0800	859	400	2	180	--	30	9	--	9	0
JAN., 1974											
23...	1015	599	--	0	--	--	29	--	--	8	--
APR.											
03...	0900	1560	--	60	--	--	17	8	0	11	--
JULY											
18...	0800	265	450	50	120	100	17	7	1	6	3

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
OCT., 1973											
12...	--	0	2	--	0	1	--	1	12	--	9
JAN., 1974											
23...	--	9	--	--	3	--	--	0	--	--	5
APR.											
03...	--	0	0	0	1	--	--	12	--	--	7
JULY											
18...	0	3	9	8	1	1	1	0	1	0	1

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT., 1973						
02...	1530	16.0	267	14	10	--
11...	1800	--	490	17	22	97
NOV.						
19...	1600	--	364	8	7.9	43
DEC.						
26...	0900	1.5	760	38	78	94
JAN., 1974						
17...	1750	.0	280	10	7.6	--
22...	1530	--	390	21	22	84
FEB.						
12...	1500	1.5	450	15	18	78
MAR.						
07...	1230	--	4570	52	642	--
12...	1430	--	2470	17	113	56
APR.						
02...	1500	--	1760	13	62	63
MAY						
03...	1100	--	666	15	27	--
21...	1530	--	1560	30	126	92
JUNE						
11...	1000	17.5	1600	46	199	99
JULY						
18...	0800	27.0	265	15	11	97
AUG.						
21...	1430	25.5	260	23	16	100
SEP.						
17...	1300	18.0	180	13	6.3	90

05369500 CHIPPEWA RIVER AT DURAND, WIS.

LOCATION.--LAT 44°37'40", LONG 91°58'10", IN SW 1/4 SEC.21, T.25 N., R.13 W., PEPIN COUNTY, AT GAGING STATION ON LEFT BANK IN DURAND, 75 FT (23 M) DOWNSTREAM FROM BRIDGE ON U.S. HIGHWAY 10, AND 9.5 MI (15.3 KM) DOWNSTREAM FROM RED CEDAR RIVER.

DRAINAGE AREA.--9,010 MI^2 (23,340 KM^2).

PERIOD OF RECORD.--SEDIMENT RECORDS: MAY 1974 TO SEPTEMBER 1974.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5560	--	--	9320	44	1110	7790	27	568
2	7610	--	--	8730	41	966	6420	28	485
3	8530	--	--	8720	38	895	8020	28	606
4	15900	242	10400	7850	34	721	8350	27	609
5	18700	--	--	7670	27	559	7440	26	522
6	19300	--	--	8070	33	719	7600	24	492
7	20200	--	--	8180	52	1150	6700	22	398
8	19900	--	--	7830	27	571	7310	22	434
9	20200	54	2950	6960	17	319	7180	23	446
10	20300	--	--	8090	43	939	17200	117	5430
11	18600	--	--	7940	77	1650	26100	97	6840
12	18300	--	--	8360	71	1600	32600	106	9330
13	21200	--	--	10400	43	1210	29100	81	6360
14	31000	--	--	13700	46	1700	22900	62	3830
15	39400	--	--	14300	37	1430	19600	68	3600
16	39100	--	--	14200	29	1110	15200	48	1970
17	29200	--	--	14400	35	1360	13500	53	1930
18	24200	90	5880	13800	51	1900	13000	38	1330
19	22900	--	--	11000	28	832	12400	53	1770
20	19400	--	--	10100	22	600	11800	58	1850
21	18600	--	--	9900	28	748	11100	39	1170
22	18400	--	--	10300	32	890	9870	40	1070
23	18600	--	--	9980	33	889	8380	32	724
24	21200	--	--	9470	26	665	5350	16	231
25	16500	--	--	8630	28	652	7420	17	341
26	15500	--	--	6100	26	428	5820	24	377
27	12800	--	--	8100	20	437	6900	27	503
28	11200	--	--	7100	19	364	6370	27	464
29	9410	--	--	7740	19	397	5870	26	412
30	10800	--	--	6800	20	367	5800	23	360
31	--	--	--	7120	24	461	--	--	--
TOTAL	572510	--	19230	290860	--	27639	353090	--	54452

05369500 CHIPPEWA RIVER AT DURAND, WIS.--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4630	18	225	3890	17	179	3200	4	35
2	5390	16	233	4080	23	253	3620	3	29
3	5980	14	226	4880	30	395	3330	2	18
4	5660	17	260	4500	39	474	5090	3	41
5	4490	22	267	4660	49	617	4390	4	47
6	5780	28	437	7610	62	1270	4650	5	63
7	4110	30	333	6690	62	1120	5020	8	108
8	3700	32	320	6590	43	765	4190	16	181
9	4990	32	431	6100	18	296	3410	27	249
10	4890	31	409	6850	10	185	4730	34	434
11	4260	28	322	4370	8	94	6420	23	399
12	4490	27	327	3650	9	89	6240	15	253
13	4470	23	278	5900	12	191	8010	12	260
14	3990	14	151	6110	13	214	6970	11	207
15	3430	10	93	5010	13	176	6310	11	187
16	3370	8	73	5450	13	191	5140	10	139
17	3540	11	105	6330	12	205	6080	10	164
18	4240	14	160	5820	11	173	5970	9	145
19	5120	19	263	5250	10	142	4870	7	92
20	4970	24	322	6280	9	153	5220	4	56
21	3290	24	213	6160	8	133	4990	3	40
22	3130	23	194	5380	9	131	3560	3	29
23	3750	22	223	5070	11	151	3150	4	34
24	3940	21	223	4900	13	172	4670	5	63
25	3920	22	233	4710	14	178	5010	5	68
26	3320	23	206	3130	15	127	4640	6	75
27	4730	24	307	4540	15	184	4840	8	105
28	4650	23	289	4400	13	154	5030	10	136
29	3690	19	189	4080	10	110	3110	10	84
30	3560	17	163	4360	7	82	3080	9	75
31	4020	14	152	4670	5	63	--	--	--
TOTAL	133500.	--	7627	161420	--	8667	144940	--	3816

05407470 KICKAPOO RIVER AT ONTARIO, WIS.

LOCATION.--LAT 43°43'14", LONG 90°35'15", NW 1/4 SEC.2, T.14 N., R.2 W., VERNON COUNTY, AT BRIDGE ON STATE HIGHWAY 33, AT ONTARIO.

DRAINAGE AREA.--116 MI^2 (300 KM^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: DECEMBER 1972 TO DECEMBER 1973 (DISCONTINUED).
WATER TEMPERATURES: DECEMBER 1972 TO SEPTEMBER 1973 (DISCONTINUED).
SEDIMENT RECORDS: DECEMBER 1972 TO SEPTEMBER 1973 (DISCONTINUED).

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT., 1973												
10...	1145	66	11	70	73	58	27	3.4	2.1	282	0	231
NOV.												
09...	1000	86	10	30	150	48	30	2.6	1.5	278	0	228
DEC.												
06...	1000	54	11	--	--	49	27	3.2	1.6	268	0	220

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT., 1973											
10...	15	6.0	.1	.60	2.7	--	.48	.25	.80	238	265
NOV.											
09...	16	4.0	.2	.80	3.7	--	.10	.15	.48	258	253
DEC.											
06...	16	4.5	.2	--	--	.91	.24	.06	.19	250	249

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT., 1973											
10...	.32	42.4	260	24	3	.1	436	8.2	16.5	5	2.8
NOV.											
09...	.35	59.9	240	16	2	.1	435	7.3	.0	5	22
DEC.											
06...	.34	36.4	230	14	3	.1	445	7.2	.0	6	27

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT., 1973											
03...	0900	68	395	7.9	14.0	6	8.9	90	1.7	150000	2800
10...	1145	66	436	8.2	16.5	4	8.8	94	.7	9500	--
17...	1300	58	400	8.4	7.0	4	10.5	91	2.4	5000	1400
24...	1115	61	420	8.5	11.0	2	9.8	93	2.1	23000	2000
NOV.											
01...	0930	68	400	8.1	6.0	3	11.8	99	1.1	14000	3600
09...	1000	86	435	7.3	.0	4	11.2	81	.2	3000	2700
15...	1040	98	390	7.3	4.0	9	9.3	74	2.4	B4600	3000
21...	0950	175	400	7.2	7.5	35	9.4	82	4.2	B18000	7300
29...	0930	64	400	7.1	1.0	4	11.6	85	.9	2500	500
DEC.											
06...	1000	54	445	7.2	.0	5	13.0	94	1.1	2400	B980
11...	1120	66	415	8.2	.0	4	11.9	86	1.2	1100	450
20...	1200	81	395	--	.0	5	--	--	2.8	18000	1600
28...	1230	109	400	--	.0	8	10.8	78	3.4	1900	780

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

05407470 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT., 1973												
10...	1145	66	100	6	1	0	0	4	2	2	0	20

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIELDRIN (UG/L)
OCT., 1973												
01...	1145	.00	.0	0	.00	.0	.00	.0	.00	.0	.00	.00

DATE	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)
OCT., 1973											
01...	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT., 1973											
01...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.01

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT., 1973								
09...	1630	41	44	51	63	74	83	100

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT., 1973											
09...	1500	1	3	15	60	70	71	73	77	91	100

05407500 KICKAPOO RIVER AT ONTARIO, WIS.

LOCATION.--LAT 43°42'52", LONG 90°35'13", TEMPERATURE RECORDER AT GAGING STATION IN SE 1/4 SW 1/4 SEC.2, T.14 N., R.2 W., VERNON COUNTY, 0.7 MI (1.1 KM) SOUTH OF ONTARIO, ON RIGHT BANK 250 FT (76 M) UPSTREAM OF TOWN-ROAD BRIDGE, 0.5 MI (0.8 KM) BELOW BRUSH CREEK.

DRAINAGE AREA.--151 MI^2 (391 KM^2).

PERIOD OF RECORD.--CHEMICAL ANALYSES: JANUARY 1974 TO SEPTEMBER 1974.
WATER TEMPERATURES: DECEMBER 1973 TO SEPTEMBER 1974.
SEDIMENT RECORDS: OCTOBER 1973 TO SEPTEMBER 1974.

EXTREMES.--1973-74:
WATER TEMPERATURES: MAXIMUM DAILY, 27.5°C JULY 14, 1974; MINIMUM DAILY, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.
SEDIMENT DISCHARGE: MAXIMUM DAILY, 15,200 TONS (13,789 T) MAR. 3, 1974; MINIMUM DAILY, 0.89 TONS (0.81 T) JUNE 6, 1974.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN., 1974												
17...	1045	78	.2	--	--	47	27	7.4	1.7	266	0	218
FEB.												
20...	1200	90	9.4	90	80	49	28	3.1	2.4	264	0	217
MAR.												
08...	1045	135	9.4	110	120	40	24	2.9	3.2	224	0	184
APR.												
18...	1000	157	7.5	30	57	45	23	3.1	1.5	241	0	198
MAY												
08...	0945	99	3.4	60	130	48	25	2.8	1.4	264	0	217
JUNE												
06...	1300	82	5.6	60	110	49	27	2.7	2.0	266	0	218
19...	1115	120	8.5	30	71	51	26	2.2	2.4	253	0	208
JULY												
25...	1200	92	9.5	430	120	50	27	3.4	3.7	263	0	216
AUG.												
13...	1130	69	10	80	47	49	23	2.4	4.0	231	0	189
SEP.												
12...	1020	68	9.0	260	83	50	28	2.6	1.6	275	0	226

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
JAN., 1974												
17...	14	9.3	.0	1.1	4.7	.13	.43	1.2	.15	.06	.19	246
FEB.												
20...	14	7.6	.1	1.0	3.2	.40	1.3	1.4	.40	.07	.22	263
MAR.												
08...	15	5.1	.1	1.5	4.8	.00	.00	1.5	.58	.11	.35	227
APR.												
18...	16	3.9	.2	.78	3.5	.01	.03	.79	.19	.06	.19	228
MAY												
08...	14	3.8	.2	.37	1.2	.00	.00	.37	.18	.00	.00	228
JUNE												
06...	13	5.3	.2	.45	1.4	.03	.10	.48	.17	.06	.19	242
19...	12	5.4	.2	.87	2.8	.00	.00	.87	.72	.07	.22	233
JULY												
25...	14	4.2	1.5	.78	3.5	.10	.33	.88	.56	.18	.58	344
AUG.												
13...	14	5.1	.8	.70	3.1	.05	.16	.75	1.2	.25	.80	224
SEP.												
12...	14	3.7	.2	.63	2.8	.06	.20	.69	.36	.11	.35	254

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

WATER QUALITY DATA

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
JAN., 1974												
17...	242	.33	51.8	230	12	7	.2	463	8.1	.0	7	3.4
FEB.												
20...	247	.36	63.9	240	21	3	.1	446	8.3	.0	8	2.1
MAR.												
08...	215	.31	82.7	200	15	3	.1	392	8.2	3.0	30	2.3
APR.												
18...	223	.31	96.6	210	9	3	.1	410	7.9	8.5	10	4.9
MAY												
08...	230	.31	60.9	220	3	3	.1	367	8.1	7.5	7	3.4
JUNE												
06...	237	.33	53.6	230	12	2	.1	380	8.3	19.0	10	2.1
19...	235	.32	75.5	230	27	2	.1	380	8.0	16.0	20	4.0
JULY												
25...	248	.47	85.4	240	20	3	.1	360	8.2	19.0	8	2.7
AUG.												
13...	225	.30	41.7	220	31	2	.1	355	7.9	17.5	50	4.7
SEP.												
12...	248	.35	46.6	240	14	2	.1	470	8.0	17.5	10	4.4

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
JAN., 1974											
04...	1315	64	440	6.8	.0	8	13.8	99	4.0	15000	3500
09...	1030	72	420	7.5	.0	3	10.9	78	1.7	19000	8000
17...	1045	78	463	8.1	.0	5	12.6	90	1.0	11000	3200
25...	1045	74	400	8.5	.0	6	13.2	95	.7	3200	4200
30...	1100	81	400	8.3	.5	4	12.3	90	2.0	2900	1700
FEB.											
07...	1045	116	410	8.3	.5	4	13.6	99	.2	13800	2900
14...	1100	82	400	8.6	.0	3	11.8	85	1.2	3000	1900
20...	1200	90	446	8.3	.0	4	12.6	91	1.5	12000	4000
MAR.											
01...	1030	78	400	8.4	.5	5	12.6	92	1.8	6000	2200
08...	1045	135	392	8.2	3.0	15	11.2	87	3.1	5100	1200
14...	1230	102	353	8.4	3.0	5	11.9	92	1.7	10000	2800
21...	0930	86	400	8.2	.0	3	12.7	91	3.9	3900	1200
27...	1045	92	400	8.1	2.0	4	12.7	96	2.3	3700	2000
APR.											
04...	1115	328	334	8.4	2.0	50	12.6	96	4.2	36000	10000
10...	1030	123	366	7.9	6.0	15	10.8	91	3.0	83600	2300
18...	1000	157	410	7.9	8.5	8	10.8	97	1.0	7000	1900
24...	1045	108	380	8.0	6.0	3	12.8	108	3.7	280	110
MAY											
02...	1030	89	390	8.3	12.5	5	10.4	102	1.7	450	170
08...	0945	99	367	8.1	7.5	2	9.6	84	1.9	1900	370
19...	0900	103	377	8.1	10.0	3	10.5	97	1.1	3100	600
22...	1200	111	373	7.9	18.5	15	9.0	100	7.1	15000	5600
30...	1200	211	380	8.2	15.5	4	8.5	89	3.1	1900	480
JUNE											
06...	1300	82	380	8.3	19.0	5	9.4	106	2.1	3700	680
13...	1030	144	320	8.3	16.0	11	8.9	94	2.6	3400	1500
19...	1115	120	380	8.0	16.0	12	9.4	99	2.5	8000	14000
25...	1145	88	405	7.4	16.5	11	8.5	90	3.0	900	630
JULY											
02...	1100	85	382	8.1	20.0	7	8.7	100	2.0	3700	170
11...	1010	91	335	7.9	19.0	35	7.6	85	6.3	98000	6900
19...	1030	82	385	8.4	21.5	9	5.8	68	2.6	16000	3000
25...	1200	92	360	8.2	19.0	10	8.2	92	2.3	35000	7300
AUG.											
01...	1100	76	390	8.0	17.5	8	8.7	95	1.7	7500	1000
07...	1145	81	392	7.8	18.5	7	8.6	96	2.8	29000	1500
13...	1130	69	355	7.9	17.5	30	8.0	87	3.1	38000	6700
22...	1045	112	392	7.1	20.0	85	6.9	79	6.1	340000	20000
28...	1100	74	455	7.9	16.0	6	12.0	126	1.2	8500	20
SEP.											
05...	0945	63	450	7.9	12.0	5	15.4	150	1.7	6500	845
12...	1020	68	470	8.0	17.5	4	8.5	92	1.8	7200	930
17...	1015	76	350	7.9	12.5	6	9.6	94	.8	14000	6400
26...	1055	55	460	8.0	11.0	2	14.8	141	1.8	--	690

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR., 1974												
18...	1000	157	30	0	0	10	1	2	0	2	0	10
JULY												
25...	1200	92	110	2	1	0	3	5	4	0	0	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
JAN., 1974											
17...	1045	78	.00	.0	.0	0	.00	.0	.00	.0	.00
JULY											
25...	1200	92	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)
JAN., 1974											
17...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0	.00
JULY											
25...	.0	--	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JAN., 1974											
17...	.0	.00	.00	.00	.0	0	--	--	.00	.00	.00
JULY											
25...	.0	--	--	--	.0	0	0	0	.06	.00	.03

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.0	1.5	0.0	0.0	0.0
2	4.0	2.0	2.5	0.0	0.0	0.0
3	5.0	4.0	5.0	0.0	0.0	0.0
4	4.5	1.5	3.0	0.0	0.0	0.0
5	1.5	0.5	1.5	0.0	0.0	0.0
6	0.5	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0
9	0.5	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.5	0.0	0.5
23	0.0	0.0	0.0	1.0	0.0	0.5
24	0.0	0.0	0.0	1.0	0.0	0.5
25	0.0	0.0	0.0	1.5	0.0	0.5
26	---	---	0.0	1.0	0.0	0.5
27	0.0	0.0	0.0	0.5	0.0	0.5
28	0.0	0.0	0.0	0.5	0.0	0.0
29	0.0	0.0	0.0	2.0	0.5	1.0
30	0.0	0.0	0.0	2.5	0.5	1.0
31	0.0	0.0	0.0	0.5	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.0	0.0	1.0	4.0	2.0	2.5	17.0	11.5	14.0
2	0.0	0.0	0.0	3.5	0.5	2.0	7.5	2.0	4.5	17.5	12.5	14.5
3	0.0	0.0	0.0	1.0	0.5	1.0	6.5	2.0	4.5	16.5	13.0	14.5
4	0.0	0.0	0.0	2.5	0.0	1.5	3.5	2.0	2.5	15.5	11.0	13.0
5	0.0	0.0	0.0	4.5	1.0	2.5	7.0	2.0	4.0	15.0	12.0	13.5
6	0.0	0.0	0.0	6.5	2.5	4.5	7.0	3.5	5.5	14.0	9.0	11.5
7	0.0	0.0	0.0	5.5	3.5	4.5	7.0	5.0	6.0	11.5	9.0	10.5
8	0.0	0.0	0.0	5.0	3.5	4.0	7.0	2.5	5.0	9.5	8.0	8.5
9	0.0	0.0	0.0	4.5	3.5	3.5	10.0	5.0	7.5	8.5	6.5	7.5
10	0.0	0.0	0.0	5.0	1.5	3.5	8.0	6.0	7.0	11.0	8.0	9.5
11	0.0	0.0	0.0	4.0	3.0	3.5	9.0	8.5	8.5	13.0	10.5	11.5
12	0.0	0.0	0.0	6.0	2.0	4.0	11.0	8.5	9.5	11.5	9.0	10.0
13	0.0	0.0	0.0	5.5	2.5	4.0	10.0	8.5	9.0	9.0	6.5	7.5
14	0.0	0.0	0.0	3.5	2.0	2.5	9.0	3.0	5.5	10.5	6.5	8.0
15	0.0	0.0	0.0	3.5	2.0	2.5	9.5	2.5	6.0	13.5	9.0	11.0
16	0.0	0.0	0.0	2.5	2.0	2.0	11.0	6.0	8.5	12.5	11.0	12.0
17	0.0	0.0	0.0	3.0	1.5	2.0	12.5	7.0	10.0	16.0	11.5	13.5
18	0.0	0.0	0.0	3.5	2.5	3.0	12.0	9.0	10.5	14.5	10.5	12.0
19	0.0	0.0	0.0	5.0	1.5	3.0	12.0	6.5	9.5	15.5	9.5	12.0
20	0.5	0.0	0.0	3.0	1.5	2.0	13.5	9.0	11.5	18.0	13.5	15.5
21	0.5	0.0	0.5	2.5	0.0	1.0	15.0	12.0	13.5	22.0	17.0	19.5
22	1.0	0.0	0.0	1.0	0.0	0.5	11.5	6.0	8.5	21.0	17.0	19.0
23	0.0	0.0	0.0	0.5	0.0	0.0	9.0	5.0	6.5	18.0	14.5	16.0
24	0.0	0.0	0.0	0.0	0.0	0.0	11.5	5.0	8.5	14.5	12.0	13.0
25	0.0	0.0	0.0	0.5	0.0	0.0	15.5	9.5	12.0	15.5	10.0	13.0
26	0.0	0.0	0.0	4.5	0.5	2.0	17.5	11.5	14.5	16.5	12.0	14.0
27	0.5	0.0	0.0	3.5	2.0	3.0	19.0	14.5	16.5	17.0	12.5	14.5
28	1.0	0.0	0.5	2.5	2.0	2.0	19.5	15.5	17.5	16.5	15.0	16.0
29	---	---	---	2.0	0.5	1.5	18.5	16.0	17.0	18.0	15.5	16.5
30	---	---	---	2.5	0.0	1.0	17.0	13.0	15.0	16.5	15.0	15.5
31	---	---	---	5.0	1.5	3.0	---	---	---	18.5	14.0	16.0

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	13.5	16.0	20.5	17.0	19.0	21.0	16.5	18.5	16.0	13.0	14.5
2	19.5	14.5	16.5	25.0	18.0	21.0	19.0	16.5	18.0	15.5	12.5	14.0
3	19.0	14.0	16.5	26.0	21.0	23.5	18.0	15.5	16.5	14.5	11.0	12.5
4	22.0	16.5	19.0	23.5	19.5	21.5	20.5	15.5	17.5	15.5	10.5	14.5
5	21.5	18.0	19.5	24.0	17.0	20.5	22.0	15.5	18.5	15.0	11.5	13.0
6	19.5	18.0	19.0	25.0	19.0	21.5	23.0	17.0	19.5	15.5	11.5	13.5
7	18.0	14.5	16.0	25.5	18.5	22.0	21.0	17.5	19.0	16.5	14.0	15.0
8	17.5	13.0	15.5	27.0	20.5	23.5	22.0	16.5	19.0	19.5	14.5	16.5
9	18.5	15.0	16.5	24.0	22.0	23.5	23.0	17.0	20.0	19.0	16.5	17.5
10	18.0	14.5	16.0	22.5	20.5	21.0	19.5	18.5	19.0	19.0	16.5	17.5
11	18.0	13.0	15.5	20.0	18.5	19.0	19.5	17.5	18.5	21.0	17.5	19.0
12	18.5	13.0	16.0	23.5	18.5	21.0	18.0	16.0	17.0	19.0	14.0	16.5
13	20.5	15.0	17.5	27.0	20.5	23.5	21.5	16.0	18.5	14.0	12.0	13.0
14	19.0	15.5	17.5	27.5	23.0	25.0	23.0	17.5	20.0	14.5	9.5	12.0
15	17.5	14.5	15.5	25.5	20.0	22.5	23.0	18.0	20.5	16.0	12.5	14.0
16	14.0	12.5	13.0	25.0	19.0	22.0	21.0	19.0	20.0	16.0	11.5	13.5
17	15.0	12.0	13.5	23.5	20.5	22.0	20.0	17.0	18.5	17.0	12.0	14.5
18	18.5	13.0	15.5	23.0	20.5	21.5	22.5	16.5	19.0	17.0	12.5	14.5
19	21.0	16.0	18.0	26.5	19.0	22.5	23.5	18.0	20.5	16.5	14.0	15.0
20	21.0	17.5	19.0	25.5	21.0	23.0	22.0	19.0	20.0	15.0	12.0	13.5
21	21.0	17.0	19.0	24.5	19.5	22.0	24.0	19.0	21.0	12.5	10.0	11.5
22	20.0	16.5	18.0	25.0	20.0	22.5	23.0	19.5	21.0	11.0	8.0	9.5
23	19.0	14.0	16.5	24.5	18.5	21.5	20.0	17.0	18.5	8.5	7.0	7.5
24	20.0	14.0	17.0	22.5	19.5	20.5	20.5	15.5	18.0	12.0	7.5	10.0
25	21.0	14.5	19.0	20.5	19.0	19.5	21.0	16.0	18.0	13.5	9.5	11.5
26	21.5	15.0	18.0	24.5	18.0	21.0	23.5	18.5	21.0	15.0	10.5	12.5
27	22.0	16.0	19.0	22.5	18.0	20.0	21.5	18.0	20.0	16.0	12.5	14.5
28	23.0	17.0	19.5	21.5	17.0	19.0	19.0	15.5	17.0	15.0	12.0	13.5
29	22.0	17.5	19.5	20.0	16.0	18.0	18.5	15.0	16.5	13.0	10.0	11.5
30	23.5	17.5	20.5	20.0	16.0	18.0	19.0	14.0	16.0	11.0	9.0	10.0
31	---	---	---	21.0	15.5	18.0	17.5	14.0	16.0	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	103	13	3.6	97	10	2.6	84	26	5.9
2	111	32	9.6	90	10	2.4	87	24	5.6
3	105	13	3.7	87	8	1.9	89	30	7.2
4	146	106	45	85	7	1.6	94	68	17
5	105	16	4.5	84	19	4.3	97	28	7.3
6	101	10	2.7	84	10	2.3	88	25	5.9
7	103	18	5.0	88	13	3.1	80	20	4.3
8	102	12	3.3	86	25	5.8	82	25	5.5
9	99	10	2.7	82	40	8.9	84	25	5.7
10	99	12	3.2	85	36	8.3	82	25	5.5
11	103	18	5.0	85	6	1.4	84	30	6.8
12	114	23	7.1	88	8	1.9	88	30	7.1
13	100	15	4.1	89	6	1.4	86	30	7.0
14	97	12	3.1	88	25	5.9	86	30	7.0
15	95	12	3.1	124	47	16	84	36	8.2
16	91	14	3.4	107	13	3.8	84	35	7.9
17	90	11	2.7	96	4	1.0	84	35	7.9
18	91	12	2.9	98	10	2.6	84	30	6.8
19	90	14	3.4	92	6	1.5	84	30	6.8
20	89	10	2.4	95	10	2.6	84	22	5.0
21	88	10	2.4	169	125	61	82	10	2.2
22	88	12	2.9	111	28	8.4	82	18	4.0
23	88	12	2.9	99	10	2.7	84	44	10
24	88	12	2.9	102	17	4.7	86	64	15
25	87	11	2.6	99	12	3.2	88	38	9.0
26	86	10	2.3	96	14	3.6	90	24	5.8
27	85	8	1.8	95	12	3.1	86	22	5.1
28	99	17	4.5	91	10	2.5	80	20	4.3
29	105	10	2.8	88	8	1.9	76	29	6.0
30	91	11	2.7	87	56	13	74	33	6.6
31	102	20	5.5	--	--	--	72	35	6.8
TOTAL	3041	--	153.8	2867	--	183.4	2615	--	215.2

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	70	60	11	84	51	12	78	25	5.3
2	70	52	9.8	84	13	2.9	156	193	182
3	70	42	7.9	82	16	3.5	1280	4440	15200
4	70	45	8.5	82	17	3.8	376	927	1440
5	70	33	6.2	80	19	4.1	238	319	208
6	72	24	4.7	80	29	6.3	239	310	199
7	72	24	4.7	80	24	5.2	195	208	111
8	72	20	3.9	80	19	4.1	143	88	34
9	74	20	4.0	82	17	3.8	138	81	30
10	74	24	4.8	82	11	2.4	124	44	15
11	74	22	4.4	82	10	2.2	115	31	9.6
12	76	25	5.1	84	9	2.0	109	27	7.9
13	78	25	5.3	84	10	2.3	106	12	3.4
14	80	25	5.4	86	8	1.9	101	11	3.0
15	82	30	6.6	86	10	2.3	106	38	11
16	84	30	6.8	90	11	2.7	110	53	16
17	88	30	7.1	92	12	3.0	102	43	12
18	94	35	8.9	92	10	2.5	106	28	8.0
19	98	40	11	94	10	2.5	108	23	6.7
20	100	60	16	94	11	2.8	100	14	3.8
21	98	50	13	90	6	1.5	98	43	11
22	86	22	5.1	84	22	5.0	97	46	12
23	78	17	3.6	84	12	2.7	92	42	10
24	76	17	3.5	86	17	3.9	88	38	9.0
25	78	9	1.9	88	73	17	110	94	28
26	80	13	2.8	86	40	9.3	98	4	1.1
27	84	12	2.7	80	30	6.5	94	8	2.0
28	80	11	2.4	78	25	5.3	97	16	4.2
29	80	112	24	--	--	--	181	737	836
30	82	131	58	--	--	--	390	767	1160
31	84	124	43	--	--	--	248	265	177
TOTAL	2474	--	302.1	2376	--	123.5	5623	--	19756.0

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	271	240	176	91	8	2.0	83	10	2.2
2	191	115	59	91	10	2.5	83	7	1.6
3	479	1040	2750	94	6	1.5	85	11	2.5
4	318	462	515	88	11	2.6	85	10	2.3
5	176	70	33	87	8	1.9	82	8	1.8
6	154	52	22	86	35	8.1	82	4	.89
7	148	32	13	86	7	1.6	216	288	321
8	129	25	8.7	98	9	2.4	154	155	64
9	124	26	8.7	95	14	3.6	274	427	448
10	120	26	8.4	98	220	58	173	128	60
11	124	41	14	173	250	117	127	30	10
12	147	61	24	110	16	4.8	110	55	16
13	137	28	10	107	25	7.2	104	50	14
14	346	766	1010	254	280	242	115	65	20
15	274	405	300	124	26	8.7	117	228	72
16	230	260	161	112	30	9.1	107	64	18
17	161	55	24	105	16	4.5	104	51	14
18	140	35	13	99	16	4.3	103	58	16
19	126	19	6.5	102	12	3.3	117	128	40
20	134	61	22	98	10	2.6	130	447	335
21	133	29	10	99	15	4.0	144	153	59
22	121	14	4.6	117	80	25	101	59	16
23	114	12	3.7	95	26	6.7	94	30	7.6
24	107	13	3.8	89	14	3.4	89	28	6.7
25	103	15	4.2	88	17	4.0	86	25	5.8
26	102	14	3.9	86	12	2.8	85	29	6.7
27	102	14	3.9	86	12	2.8	84	28	6.4
28	99	6	1.6	86	15	3.5	82	20	4.4
29	101	13	3.5	86	14	3.3	83	16	3.6
30	94	10	2.5	85	10	2.3	85	18	4.1
31	--	--	--	85	10	2.3	--	--	--
TOTAL	5005	--	5220.0	3200	--	547.8	3384	--	1579.59

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	84	19	4.3	75	28	5.7	69	10	1.9
2	85	19	4.4	76	42	8.6	68	44	8.1
3	83	16	3.6	82	88	19	68	11	2.0
4	85	31	7.1	83	28	6.3	67	27	4.9
5	83	20	4.5	78	15	3.2	68	21	3.9
6	82	30	6.6	77	20	4.2	69	22	4.1
7	80	22	4.8	80	16	3.5	69	46	8.6
8	81	15	3.3	79	16	3.4	68	17	3.1
9	81	27	5.9	77	50	10	68	15	2.8
10	147	340	135	76	43	8.8	68	63	12
11	89	62	15	74	57	11	68	21	3.9
12	85	36	8.3	90	32	7.8	70	18	3.4
13	82	40	8.9	100	76	21	75	18	3.6
14	80	52	11	72	20	3.9	75	15	3.0
15	80	44	9.5	73	23	4.5	70	9	1.7
16	80	52	11	79	22	4.7	70	21	4.0
17	78	76	16	76	21	4.3	68	15	2.8
18	78	28	5.9	74	25	5.0	68	18	3.3
19	81	16	3.5	72	18	3.5	66	13	2.3
20	81	62	14	76	17	3.5	66	15	2.7
21	78	61	13	83	59	17	66	12	2.1
22	87	60	14	143	191	100	66	14	2.5
23	78	55	12	77	60	12	66	7	1.2
24	84	55	12	75	33	6.7	70	14	2.6
25	88	60	14	73	7	1.4	66	25	4.5
26	84	50	11	73	14	2.8	66	10	1.8
27	80	40	8.6	74	13	2.6	66	10	1.8
28	81	35	7.7	71	13	2.5	66	28	5.0
29	76	35	7.2	71	19	3.6	70	11	2.1
30	75	30	6.1	70	11	2.1	68	20	3.7
31	75	30	6.1	73	11	2.2	--	--	--
TOTAL	2591	--	394.3	2452	--	294.8	2048	--	109.4

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT., 1973							
09...	1630	99	11	2.9	41	44	51
JAN., 1974							
16...	1345	--	--	--	49	50	58
MAR.							
04...	1600	229	284	176	19	24	31
JULY							
24...	1530	86	57	13	36	46	59

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT., 1973							
09...	63	74	83	100	--	--	--
JAN., 1974							
16...	70	78	89	100	--	--	--
MAR.							
04...	41	59	70	71	82	96	100
JULY							
24...	72	86	95	97	98	100	--

05407500 KICKAPOO RIVER AT ONTARIO, WIS.--CONTINUED

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JAN., 1974												
16...	1345	--	0	1	8	60	86	88	91	94	97	100
MAR.												
04...	1600	229	1	5	52	94	96	96	96	98	100	--
JULY												
24...	1530	86	13	28	38	89	98	99	100	100	--	--

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.

LOCATION.--LAT 43°36'46", LONG 90°37'34", IN SE 1/4 SW 1/4 SEC.9, T.13 N., R.2 W., VERNON COUNTY, AT BRIDGE ON STATE HIGHWAY 131, AND 2.0 MI (3.2 KM) SOUTHWEST OF ROCKTON.

DRAINAGE AREA.--264 MI^2 (684 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--CHEMICAL ANALYSES: NOVEMBER 1971 TO SEPTEMBER 1974.
WATER TEMPERATURES: NOVEMBER 1971 TO SEPTEMBER 1974.
SEDIMENT RECORDS: NOVEMBER 1971 TO SEPTEMBER 1974.

EXTREMES.--1973-74:
WATER TEMPERATURES: MAXIMUM, 22.0°C JULY 14, 1974; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.
SEDIMENT DISCHARGE: MAXIMUM DAILY, 4,800 TONS (4,355 T) MAR. 3, 1974; MINIMUM DAILY, 3.00 TONS (2.72 T) FEB. 24, 1974.

PERIOD OF RECORD:
WATER TEMPERATURES: MAXIMUM, 25.0°C AUG. 20, 1972; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.
SEDIMENT DISCHARGE: MAXIMUM DAILY, 14,700 TONS (13,336 T) MAR. 7, 1973; MINIMUM DAILY, 0.59 TONS (0.54 T) FEB. 16, 1973.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT., 1973												
10...	1000	174	11	100	37	60	28	2.6	1.8	298	0	244
NOV.												
09...	0830	170	11	30	90	48	33	2.1	1.3	290	0	238
DEC.												
06...	0830	192	11	--	--	53	28	2.8	1.4	274	--	230
JAN., 1974												
17...	0915	160	10	--	--	47	27	2.3	1.4	273	0	224
FEB.												
20...	1015	200	9.4	160	60	51	28	2.2	2.3	265	0	217
MAR.												
08...	0930	331	9.3	110	100	39	23	2.4	3.6	222	0	182
APR.												
18...	0830	288	8.3	10	43	46	23	2.7	1.5	247	0	203
MAY												
08...	0830	173	4.1	20	100	49	26	2.5	1.4	274	0	225
JUNE												
06...	1100	137	5.7	60	67	50	27	2.1	1.7	277	0	227
19...	0935	222	8.9	10	43	46	28	1.8	1.8	272	0	223
JULY												
25...	1230	159	9.6	20	33	53	27	3.2	3.6	266	0	218
AUG.												
13...	1015	212	11	70	20	50	26	2.4	3.6	255	0	209
SEP.												
12...	0900	125	8.8	240	60	53	29	2.5	1.5	287	0	235

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT., 1973												
10...	15	4.0	.1	.40	2.0	--	--	--	.42	.12	.38	252
NOV.												
09...	16	3.0	.1	.80	3.5	--	--	--	.01	.10	.32	264
DEC.												
06...	14	3.5	.1	--	--	--	--	.86	.17	.06	.19	254
JAN., 1974												
17...	15	4.6	--	.96	4.3	.00	.00	.96	.11	1.5	4.8	253
FEB.												
20...	14	6.2	.1	.91	4.0	.29	.95	1.2	.18	.06	.19	253
MAR.												
08...	15	4.5	.1	1.4	6.2	.00	.00	1.4	.58	.14	.45	219
APR.												
18...	17	3.6	.2	.77	3.4	.01	.03	.78	.22	.06	.19	230
MAY												
08...	16	4.3	.2	.77	3.4	.00	.00	.77	.16	.03	.10	242
JUNE												
06...	13	4.8	.2	.39	1.7	.01	.03	.40	.23	.04	.13	233
19...	14	4.4	.2	.64	2.8	.04	.13	.68	.53	.06	.19	258
JULY												
25...	14	3.2	1.4	.77	3.4	.02	.07	.79	.64	.20	.60	316
AUG.												
13...	15	5.0	.2	.71	3.1	.03	.10	.74	1.3	.28	.90	260
SEP.												
12...	15	3.3	.2	.54	2.4	.02	.07	.56	.30	.10	.32	278

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT., 1973												
10...	271	.34	118	260	20	2	.1	452	8.2	16.0	5	3.0
NOV.												
09...	261	.36	121	260	18	2	.1	448	7.1	.0	5	37
DEC.												
06...	256	.35	132	250	18	2	.1	454	7.4	.0	6	18
JAN., 1974												
17...	246	.34	211	230	6	2	.1	444	8.1	.0	8	3.5
FEB.												
20...	248	.34	137	240	25	2	.1	443	8.2	.0	6	2.7
MAR.												
08...	213	.30	196	190	10	3	.1	384	8.4	5.0	40	1.4
APR.												
18...	228	.31	179	210	7	3	.1	412	8.0	9.0	10	4.0
MAY												
08...	242	.33	113	230	5	2	.1	375	8.1	8.5	6	3.5
JUNE												
06...	243	.32	86.2	240	13	2	.1	390	8.2	19.0	10	2.8
19...	242	.35	155	230	7	2	.1	397	--	16.0	7	--
JULY												
25...	250	.43	136	240	25	3	.1	350	8.1	19.0	20	3.4
AUG.												
13...	242	.35	149	230	21	2	.1	378	7.9	17.0	30	5.1
SEP.												
12...	257	.38	93.8	250	15	2	.1	380	7.9	18.5	9	5.8

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT., 1973											
03...	1015	189	410	8.3	14.0	9	8.8	89	1.4	B19000	2800
10...	1000	174	452	8.2	16.0	6	8.6	91	.6	4500	--
17...	1200	165	420	8.3	7.0	4	10.6	91	1.5	B810	580
24...	1015	164	410	8.0	11.0	2	9.1	87	1.2	18000	B1000
NOV.											
01...	1115	200	405	8.3	6.5	4	10.8	93	.7	11000	3300
09...	0830	170	448	7.1	.0	6	12.4	89	.6	420	1000
15...	0940	204	400	7.3	5.0	15	10.3	84	2.8	1700	B670
21...	0900	309	400	7.3	7.5	25	9.7	85	1.5	4900	2000
29...	0845	181	410	7.3	1.0	5	11.6	83	.6	2000	B1000
DEC.											
06...	0830	192	454	7.4	.0	6	12.6	91	.6	8000	1600
11...	1015	170	440	7.5	.0	4	12.2	88	.6	330	829
20...	1500	156	400	--	.0	4	--	--	.8	3500	1000
28...	1050	150	405	8.2	.0	4	8.7	63	3.4	1300	--
JAN., 1974											
04...	1205	130	400	6.3	.0	25	12.8	92	2.2	34000	540
09...	0900	140	415	7.5	.0	4	11.0	79	.6	3100	1500
17...	0915	160	444	8.1	.0	5	12.0	86	2.6	3100	500
25...	0945	180	400	8.2	.0	5	12.4	89	.7	B320	470
30...	1010	164	405	8.2	.5	5	12.3	90	2.6	620	580
FEB.											
07...	0945	160	410	8.2	.0	7	12.6	91	.1	1200	570
14...	1000	160	400	8.3	.0	4	11.7	84	1.4	3300	1300
20...	1015	200	443	8.2	.0	5	12.0	86	1.5	570	530
MAR.											
01...	1000	162	400	8.4	.0	6	12.2	88	1.3	454	180
08...	0930	331	384	8.4	5.0	20	10.4	85	3.7	1800	780
14...	1015	217	400	8.4	3.0	9	11.4	88	1.5	1400	B260
21...	0830	195	400	8.2	.0	4	12.6	91	2.6	380	280
27...	0945	202	400	8.2	2.5	5	12.4	94	1.6	1200	470
APR.											
04...	1015	731	210	7.8	2.5	35	11.4	87	7.4	50000	7700
10...	0945	222	390	8.2	7.0	20	9.8	84	1.6	1000	700
18...	0830	288	412	8.0	9.0	9	10.3	94	4.6	B1500	B5500
24...	1000	199	400	8.2	5.5	5	11.9	98	4.4	B180	B205
MAY											
02...	0945	158	400	8.2	13.0	6	9.2	91	3.0	720	250
08...	0830	173	375	8.1	8.5	3	10.2	91	1.1	370	300
19...	0800	212	390	8.1	10.0	2	9.8	91	2.6	1100	260

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
MAY, 1974											
22...	1040	279	360	7.7	--	55	9.0	--	3.8	19000	6700
30...	1245	156	390	8.2	21.5	4	8.6	101	2.3	1100	280
JUNE											
06...	1100	137	390	8.2	19.0	5	8.2	92	2.0	1100	220
13...	0910	183	365	8.5	25.0	20	8.1	101	3.4	3200	1000
19...	0935	222	397	--	16.0	30	8.9	94	2.2	6800	4000
25...	1045	170	420	7.3	17.0	15	7.9	85	6.7	1000	860
JULY											
02...	1000	146	388	8.1	18.5	15	8.3	92	.8	4400	130
11...	0925	165	298	7.8	23.0	65	7.0	84	4.1	120000	12000
19...	0940	123	350	8.1	21.0	25	6.6	77	1.1	14000	875
25...	1230	159	350	8.1	19.0	20	8.2	92	2.9	22000	B1800
AUG.											
01...	1000	120	464	7.9	17.0	10	8.5	91	1.5	2300	165
07...	1100	129	447	7.8	17.5	25	8.3	90	2.3	16000	600
13...	1015	212	378	7.9	17.0	40	7.9	85	2.9	35000	5300
22...	0940	415	330	7.1	21.0	65	7.1	83	4.2	140000	13000
28...	1015	125	460	7.9	16.0	15	11.2	118	1.0	5000	850
SEP.											
05...	0900	122	485	8.0	11.0	5	14.4	137	1.4	3700	827
12...	0900	125	380	7.9	18.5	7	9.6	107	1.5	3100	500
17...	0900	120	360	7.8	12.5	7	9.5	93	1.7	780	550
26...	1000	128	470	7.8	10.0	4	13.7	128	1.4	--	750

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT., 1973												
10...	1000	174	100	5	1	0	0	4	3	1	0	30
APR., 1974												
18...	0830	288	50	0	0	0	1	2	0	2	0	10
JULY												
25...	1230	159	50	2	0	1	2	2	3	0	0	20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
OCT., 1973												
10...	1000	174	.00	.0	.0	0	.00	.0	.00	.0	.00	.0
JAN., 1974												
17...	0915	160	.00	.0	.0	0	.00	.0	.00	.0	.00	.0
JULY												
25...	1230	159	.00	.0	.0	0	.00	.0	.00	.0	.00	.0

DATE	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)
OCT., 1973											
10...	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00
JAN., 1974											
17...	.00	.00	.0	.00	.0	--	.00	.0	.00	.0	.00
JULY											
25...	--	.00	.0	.00	.0	--	.00	.0	.00	.0	.00

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT., 1973											
10...	.0	.00	--	--	.0	0	0	0	.00	.00	.00
JAN., 1974											
17...	.0	.00	.00	.00	.0	0	--	--	.00	.00	.00
JULY											
25...	.0	--	--	--	.0	0	0	0	.11	.03	.01

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
1	13.5	---	1.0	---	---	1.0	4.0	11.5	13.0	17.0	16.5	13.
2	---	---	---	1.5	0.5	4.5	3.5	12.5	14.0	18.5	17.5	12.
3	14.0	5.5	4.5	1.5	---	1.5	5.0	13.0	14.0	21.0	15.5	10.
4	14.5	4.5	---	1.5	0.5	1.0	2.5	11.0	16.5	21.0	15.5	10.
5	11.0	---	2.0	0.5	0.0	---	4.5	12.0	17.5	---	15.0	11.
6	10.0	2.0	---	---	---	4.0	---	10.0	18.5	18.5	17.0	--
7	11.0	2.5	0.0	0.0	0.5	---	6.0	8.5	---	18.5	17.0	13.
8	12.5	2.5	0.0	0.5	0.0	4.5	4.0	6.0	13.5	20.0	15.5	14.
9	16.0	---	0.0	---	0.0	4.0	7.0	---	15.0	21.5	17.0	15.
10	16.5	0.0	0.0	0.5	0.0	3.0	8.5	7.0	16.0	21.0	19.0	16.
11	15.0	2.0	0.0	0.5	0.0	5.0	8.5	10.0	13.0	19.0	18.0	17.
12	15.0	5.5	0.0	---	0.5	---	9.0	10.0	13.0	---	16.0	--
13	12.5	5.0	0.0	---	0.5	---	9.0	7.5	14.5	20.0	16.0	12.
14	10.0	5.5	0.0	0.5	0.0	---	5.0	7.0	15.5	22.0	17.0	9.
15	11.0	---	0.0	0.5	0.0	3.0	7.0	8.5	15.5	20.0	18.0	11.
16	---	4.0	---	1.0	---	3.0	---	11.5	13.0	19.0	19.0	11.
17	7.5	3.5	---	1.0	---	3.0	11.0	11.0	12.0	20.5	17.0	11.
18	8.0	5.0	0.0	0.0	---	3.0	11.0	12.5	12.5	20.5	16.5	12.
19	9.0	5.0	1.0	1.0	1.0	---	10.5	10.0	15.5	19.5	17.5	13.
20	---	---	---	0.5	0.5	3.0	9.0	13.0	16.5	---	19.0	12.
21	7.0	7.5	0.0	0.5	0.5	2.0	---	---	17.5	20.0	19.5	10.
22	8.0	---	1.5	---	0.0	1.5	11.0	16.5	17.5	20.5	20.0	7.
23	9.5	4.0	1.5	0.5	0.0	1.0	6.5	15.5	16.0	19.0	17.0	6.
24	---	---	2.0	0.5	0.0	---	7.0	13.0	14.0	19.5	---	8.
25	12.0	5.5	2.0	0.5	1.0	1.0	9.5	10.0	14.0	19.0	---	9.
26	9.0	5.0	2.0	0.5	1.0	3.0	11.0	---	---	18.0	18.5	10.
27	9.5	6.0	2.0	0.5	0.5	3.0	14.0	12.5	16.0	18.0	18.5	12.
28	8.0	4.5	1.5	0.0	---	---	16.0	14.5	16.5	18.5	16.0	13.
29	6.5	2.0	1.5	0.5	---	2.5	16.0	15.0	17.0	18.5	15.0	10.
30	---	2.0	---	1.0	---	1.5	13.5	15.0	---	15.5	---	--
31	9.0	---	---	0.0	---	---	---	14.5	---	---	14.0	--

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED
SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	185	43	21	200	29	16	169	28	13
2	190	80	41	190	28	14	170	29	13
3	195	50	26	174	24	11	179	30	14
4	319	231	199	167	22	9.9	190	31	16
5	210	84	48	160	19	8.2	200	32	17
6	179	46	22	160	14	6.0	190	22	11
7	192	44	23	169	19	8.7	156	10	4.2
8	186	42	21	173	24	11	138	25	9.3
9	181	44	22	170	17	7.8	150	24	9.7
10	174	40	19	163	10	4.4	160	8	3.5
11	190	53	27	168	18	8.2	170	30	14
12	220	79	47	170	14	6.4	190	14	7.2
13	211	45	26	172	18	8.4	170	14	6.4
14	181	39	19	169	8	3.7	170	24	11
15	173	42	20	200	38	21	160	98	42
16	170	40	18	256	46	32		50	
17	165	18	8.0	188	19	9.6	160	40	17
18	169	18	8.2	190	27	14	160	100	43
19	164	18	8.0	185	24	12	160	27	12
20	160	18	7.8	180	34	17	160	27	12
21	164	28	12	280	104	79	160	24	10
22	165	29	13	260	60	42	150	27	11
23	167	28	13	202	32	17	150	84	34
24	170	30	14	211	26	15	160	38	16
25	169	28	13	202	28	15	170	64	29
26	167	24	11	202	32	17	170	40	18
27	167	28	13	198	31	17	170	28	13
28	167	32	14	186	21	11	160	45	19
29	236	46	29	182	30	15	150	69	28
30	190	38	19	177	24	11	140	25	9.5
31	208	24	13	--	--	--	140	22	8.3
TOTAL	5784	--	795.0	5704	--	468.3	4922	--	471.1

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	140	90	34	150	55	22	168	21	9.5
2	140	98	37	140	12	4.5	167	69	31
3	140	42	16	140	14	5.3	1480	1200	4800
4	140	36	14	140	64	24	2000	424	2290
5	140	53	20	140	205	77	541	272	397
6	140	40	15	140	193	73	450	245	298
7	140	78	29	140	26	9.8	400	190	205
8	140	18	6.8	140	18	6.8	334	100	90
9	140	16	6.0	150	15	6.1	321	209	181
10	140	12	4.5	150	24	9.7	270	70	51
11	140	14	5.3	150	21	8.5	260	50	35
12	140	13	4.9	150	18	7.3	230	45	28
13	150	12	4.9	150	20	8.1	220	40	24
14	150	11	4.5	160	19	8.2	210	35	20
15	150	14	5.7	160	17	7.3	216	29	17
16	160	13	5.6	160	17	7.3	250	37	25
17	180	12	5.8	170	18	8.3	211	18	10
18	190	9	4.6	170	19	8.7	210	24	14
19	200	12	6.5	190	20	10	210	19	11
20	210	11	6.2	200	23	12	205	16	8.9
21	210	26	15	200	41	22	192	16	8.3
22	200	28	15	180	36	17	196	18	9.5
23	200	10	5.4	150	10	4.1	151	8	3.3
24	190	10	5.1	160	7	3.0	180	30	15
25	190	12	6.2	160	53	23	260	92	65
26	200	30	16	160	78	34	193	47	24
27	218	138	81	170	48	22	196	28	15
28	195	21	11	170	30	14	190	35	18
29	182	28	14	--	--	--	196	19	10
30	168	42	19	--	--	--	1050	1370	3880
31	290	144	113	--	--	--	500	450	608
TOTAL	5313	--	537.0	4440	--	463.0	11657	--	13201.5

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED
SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	658	442	785	173	40	19	154	20	8.3
2	310	94	79	170	35	16	156	22	9.3
3	656	787	1390	172	42	20	151	21	8.6
4	754	1250	2540	156	28	12	170	24	11
5	334	1210	1090	155	26	11	151	19	7.7
6	300	150	122	159	24	10	147	22	8.7
7	287	84	65	150	19	7.7	250	80	54
8	240	54	35	180	18	8.7	528	245	349
9	228	42	26	178	18	8.7	332	1210	1080
10	220	27	16	174	18	8.5	385	272	283
11	218	46	27	309	123	103	284	121	93
12	263	80	57	261	77	54	214	97	56
13	269	74	54	205	32	18	196	90	48
14	928	834	2090	623	628	1060	186	88	44
15	503	158	215	344	132	123	293	200	158
16	450	385	468	274	63	47	140	92	35
17	322	71	62	266	64	46	205	74	41
18	287	68	53	222	56	34	195	74	39
19	260	46	32	222	41	25	237	134	86
20	236	62	40	208	44	25	205	107	59
21	280	73	55	216	56	33	604	902	1470
22	248	61	41	304	191	157	263	230	163
23	229	32	20	205	56	31	211	124	71
24	210	24	14	192	51	26	199	110	59
25	198	27	14	182	34	17	182	100	49
26	195	44	23	170	30	14	420	100	113
27	188	44	22	167	26	12	170	100	46
28	183	32	16	165	36	16	165	91	41
29	264	278	198	165	39	17	159	84	36
30	186	71	36	168	30	14	160	80	35
31	--	--	--	163	28	12	--	--	--
TOTAL	9904	--	9685	6698	--	2005.6	7112	--	4561.6

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	156	76	32	129	49	17	138	64	24
2	156	71	30	130	51	18	135	52	19
3	152	69	28	143	54	21	134	46	17
4	165	116	52	169	120	55	133	39	14
5	160	65	28	133	48	17	130	40	14
6	149	59	24	129	42	15	130	40	14
7	139	58	22	138	199	74	131	42	15
8	138	64	24	130	79	28	135	50	18
9	137	56	21	127	64	22	130	51	18
10	157	88	37	125	70	24	131	49	17
11	186	277	139	144	426	166	132	51	18
12	160	140	60	177	176	84	130	53	19
13	146	84	33	258	189	132	154	55	23
14	137	86	32	146	82	32	135	38	14
15	130	83	29	138	65	24	130	34	12
16	132	81	29	134	74	27	130	41	14
17	131	82	29	158	132	56	129	34	12
18	129	80	28	138	127	47	128	33	11
19	135	88	32	135	119	43	128	46	16
20	130	90	32	130	92	32	128	45	16
21	126	97	33	144	75	29	128	31	11
22	137	114	42	406	556	609	128	30	10
23	137	99	37	168	165	75	129	26	9.1
24	128	86	30	140	140	53	146	32	13
25	170	130	60	140	115	43	138	32	12
26	162	107	47	137	68	25	134	32	12
27	139	72	27	130	88	31	134	33	12
28	135	70	26	138	64	24	133	44	16
29	133	38	14	130	84	29	147	31	12
30	131	50	18	130	130	46	140	25	9.5
31	130	35	12	169	202	92	--	--	--
TOTAL	4453	--	1087	4743	--	1990	4008	--	441.6

05407920 KICKAPOO RIVER NEAR ROCKTON, WIS.--CONTINUED

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT., 1973							
09...	1700	179	25	12	19	25	33
MAR., 1974							
05...	0945	541	234	342	20	29	38
JULY							
24...	1830	128	71	25	23	27	36

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT., 1973							
09...	44	62	74	75	87	100	--
MAR., 1974							
05...	51	74	86	87	94	100	
JULY							
24...	48	69	88	92	99	100	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
OCT., 1973											
09...	1700	179	0	1	11	76	97	100	100	100	--
JAN., 1974											
16...	1130	160	7	32	67	91	97	97	97	98	100
MAR.											
05...	0945	541	0	1	8	86	99	100	100	100	--
JULY											
24...	1830	128	9	30	59	93	99	100	100	--	--

05408000 KICKAPOO RIVER AT LA FARGE, WIS.

LOCATION.--LAT 43°34'27", LONG 90°38'35", TEMPERATURE RECORDER AT GAGING STATION ON EAST-WEST QUARTER SECTION LINE IN W 1/2 SEC.29, T.13 N., R.2 W., VERNON COUNTY, ON LEFT BANK 10 FT (3.0 M) UPSTREAM FROM BRIDGE ON STATE HIGHWAY 82, IN LA FARGE, 0.3 MI (0.5 KM) UPSTREAM FROM OTTER CREEK, AND 1.3 MI (2.1 KM) DOWNSTREAM FROM POWERPLANT.

DRAINAGE AREA.--266 MI^2 (689 KM^2).

PERIOD OF RECORD.--WATER TEMPERATURES: JULY 1971 TO SEPTEMBER 1974.
SEDIMENT RECORDS: OCTOBER 1971 TO SEPTEMBER 1974.

EXTREMES.--1973-74:
WATER TEMPERATURES: MAXIMUM RECORDED DAILY, 24.5°C JULY 14, 1974; MINIMUM DAILY, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.
SPECIFIC CONDUCTANCE: MAXIMUM, 550 MICROMHOS FEB. 25, 1974; MINIMUM, 120 MICROMHOS MAR. 4, 1974.
TURBIDITY: MAXIMUM, 300 JACKSON TURBIDITY UNITS (JTU) AUG. 27, 1974; MINIMUM, 2 JTU ON MANY DAYS DURING THE YEAR.
SEDIMENT DISCHARGE: MAXIMUM DAILY, 10,100 TONS (9,163 T) MAR. 4, 1974; MINIMUM DAILY, 1.60 TONS (1.45 T) JAN. 14, 1974.

PERIOD OF RECORD:
WATER TEMPERATURES: MAXIMUM DAILY, 26.5°C JULY 22, AUG. 18, 1972; MINIMUM DAILY, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.
SPECIFIC CONDUCTANCE: MAXIMUM, 550 MICROMHOS FEB. 25, 1974; MINIMUM, 120 MICROMHOS MAR. 4, 1974.
TURBIDITY: MAXIMUM, 300 JTU AUG. 27, 1974; MINIMUM, 0 JTU ON MAY 4-7, 1973.
SEDIMENT DISCHARGE: MAXIMUM DAILY, 10,500 TONS (9,526 T) APR. 13, 1972; MINIMUM, 0 TON (0 T) DEC. 25, 1971.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	14.0	14.0	8.0	7.5	7.5	2.5	1.5	2.0	0.5	0.5	0.5
2	15.5	11.0	14.5	7.5	6.5	7.0	3.0	1.5	2.0	0.5	0.5	0.5
3	15.5	14.5	15.0	6.5	5.5	6.5	4.5	3.0	4.0	0.5	0.5	0.5
4	15.5	14.0	15.0	5.5	4.5	5.0	4.5	3.0	4.0	0.5	0.5	0.5
5	14.0	12.0	13.0	4.0	2.0	3.0	3.0	2.0	2.5	0.5	0.0	0.5
6	12.0	11.0	11.0	2.0	1.0	1.5	1.5	0.5	1.0	1.0	0.5	0.5
7	12.0	11.0	11.5	3.5	2.0	2.5	0.5	0.5	0.5	0.5	0.5	0.5
8	15.0	12.5	13.5	3.0	2.0	2.5	0.5	0.5	0.5	0.5	0.5	0.5
9	17.0	15.5	16.5	2.0	0.5	1.0	0.5	0.0	0.5	0.5	0.5	0.5
10	17.0	16.5	16.5	1.0	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5
11	17.5	16.0	16.5	3.0	1.0	2.0	0.5	0.5	0.5	0.5	0.5	0.5
12	17.0	14.5	16.0	5.0	3.0	4.5	0.5	0.5	0.5	0.5	0.5	0.5
13	14.5	12.5	13.5	6.0	5.0	5.5	0.5	0.0	0.5	1.0	0.5	0.5
14	13.0	11.5	12.0	5.5	5.0	5.5	0.5	0.0	0.5	1.0	0.5	0.5
15	12.5	11.0	11.5	6.0	5.0	5.5	1.0	0.5	0.5	1.0	0.0	0.5
16	11.0	9.0	10.0	4.5	3.5	4.5	0.5	0.5	0.5	1.0	0.5	0.5
17	9.0	7.5	8.0	4.5	3.0	3.5	1.0	0.5	0.5	1.0	0.5	0.5
18	9.0	7.5	8.0	5.5	4.5	5.0	0.5	0.0	0.5	1.0	0.5	0.5
19	10.0	8.0	9.0	6.0	5.0	5.5	0.5	0.5	0.5	---	---	---
20	10.0	8.5	9.0	7.0	5.5	6.0	0.5	0.0	0.5	1.5	0.5	0.5
21	9.5	8.0	9.0	7.5	7.0	7.5	0.5	0.5	0.5	1.0	0.5	0.5
22	10.5	6.0	9.5	7.0	5.0	6.0	0.5	0.5	0.5	1.0	0.5	1.0
23	12.0	10.0	11.0	5.0	4.0	4.5	1.0	0.0	0.5	1.0	0.5	0.5
24	13.0	11.0	12.0	5.0	4.0	4.5	0.5	0.5	0.5	1.0	0.0	0.5
25	12.5	11.0	12.0	5.5	5.0	5.5	0.5	---	---	1.0	0.5	1.0
26	11.0	10.0	10.5	5.5	4.5	5.5	0.5	0.5	0.5	1.0	0.5	0.5
27	10.0	9.0	9.5	6.5	5.5	6.0	0.5	0.5	0.5	1.0	0.5	0.5
28	9.0	7.5	8.0	6.0	3.5	5.0	0.5	0.5	0.5	1.0	0.5	0.5
29	8.0	7.0	7.5	3.5	2.5	3.0	0.5	0.5	0.5	1.0	0.5	1.0
30	8.0	6.5	7.5	2.5	2.0	2.5	0.5	0.5	0.5	---	---	---
31	8.5	7.5	8.0	---	---	---	0.5	0.5	0.5	1.5	0.0	0.5

05408000 KICKAPOO RIVER AT LA FARGE, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	0.5	5.5	0.5	2.0	4.5	4.0	4.5	15.5	14.0	15.0
2	---	---	---	0.5	0.5	0.5	5.5	3.0	4.5	16.0	14.0	15.0
3	1.0	0.5	0.5	1.5	0.5	1.0	7.0	4.5	6.0	16.0	15.0	15.5
4	0.5	0.5	0.5	1.5	0.5	1.0	4.5	3.0	3.5	14.5	13.5	14.0
5	1.0	0.5	0.5	3.5	2.0	2.5	5.0	3.0	4.0	14.5	13.0	14.0
6	1.0	0.0	0.5	5.0	3.5	4.5	7.0	4.5	5.5	13.0	11.5	12.5
7	1.0	0.5	0.5	5.5	5.0	5.5	7.0	6.5	7.0	11.5	10.5	11.0
8	1.0	0.5	0.5	5.5	4.5	5.0	6.0	5.0	5.5	10.5	8.5	9.5
9	1.0	0.5	0.5	4.5	4.0	4.5	8.0	6.0	7.0	8.5	8.0	8.0
10	1.5	0.0	1.0	4.5	3.5	4.0	7.5	7.0	7.5	10.0	8.0	9.0
11	1.5	0.5	1.0	4.0	4.0	4.0	9.0	8.5	9.0	12.0	10.0	11.0
12	2.0	1.5	1.5	3.5	3.5	3.5	10.0	9.0	9.5	12.0	10.5	11.0
13	2.0	1.5	1.5	3.5	3.5	3.5	10.5	9.5	10.0	10.5	7.5	9.0
14	2.0	1.5	1.5	3.5	3.0	3.5	10.0	5.0	7.0	9.0	7.5	8.0
15	1.5	1.5	1.5	3.5	3.0	3.0	7.0	4.0	5.5	11.5	9.0	10.5
16	2.5	1.0	1.5	3.5	3.0	3.0	9.5	7.0	8.5	12.0	11.5	12.0
17	2.0	1.5	1.5	3.0	2.5	3.0	11.0	8.5	9.5	14.0	12.0	13.0
18	2.0	1.5	2.0	3.5	3.0	3.5	11.0	9.5	10.5	14.0	11.5	13.0
19	2.5	1.5	2.0	4.5	3.0	3.5	10.5	9.0	10.0	13.5	11.0	12.5
20	2.5	2.0	2.5	3.5	3.0	3.5	12.5	10.0	11.0	16.0	13.5	15.0
21	2.5	2.0	2.5	3.0	2.0	2.5	14.0	12.5	13.5	19.5	16.0	18.0
22	2.5	2.0	2.0	2.0	1.0	2.0	13.5	9.5	11.5	20.5	19.0	19.5
23	2.5	2.5	2.5	2.0	0.5	1.0	9.5	7.5	8.0	19.0	16.0	17.5
24	3.0	2.5	2.5	1.0	0.5	0.5	9.5	6.5	8.0	16.0	13.0	14.5
25	3.0	0.5	1.5	1.5	0.5	1.0	13.0	9.5	11.5	14.0	12.0	13.0
26	5.5	0.5	1.0	2.5	0.5	1.5	15.5	12.5	14.0	15.0	13.0	14.0
27	5.5	0.5	2.5	4.0	2.5	3.5	17.5	15.0	16.5	15.5	13.5	14.5
28	0.5	0.5	0.5	4.0	3.0	3.5	19.5	17.0	17.5	16.0	15.0	15.5
29	---	---	---	3.0	2.5	3.0	19.0	16.5	17.5	17.0	16.0	16.5
30	---	---	---	2.5	1.5	2.0	16.5	15.0	16.0	16.5	15.5	16.0
31	---	---	---	4.0	2.5	3.0	---	---	---	17.0	14.0	16.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.5	16.0	---	---	---	---	---	---	16.0	15.0	15.5
2	19.0	15.5	17.0	22.0	19.5	21.0	---	---	---	15.0	14.0	14.5
3	17.0	16.0	16.5	24.5	21.5	23.0	---	---	---	13.5	12.5	13.0
4	19.5	17.0	18.5	24.0	21.5	23.0	---	---	---	13.0	11.5	12.5
5	20.5	19.0	20.0	21.5	20.0	21.0	---	---	---	13.5	12.5	13.0
6	20.5	19.0	20.0	22.0	20.5	21.5	---	---	---	13.5	12.5	13.0
7	19.0	15.5	17.5	23.5	21.0	22.0	19.0	17.5	18.5	15.0	13.5	14.0
8	16.0	15.0	15.5	24.5	22.0	23.0	19.5	18.0	19.0	17.0	15.0	16.0
9	17.5	16.0	16.5	24.5	23.0	23.5	20.5	18.5	19.5	18.0	16.5	17.0
10	17.0	15.5	17.0	23.5	21.5	22.5	20.0	19.5	20.0	18.0	17.5	17.5
11	16.5	15.0	15.5	21.5	21.0	21.0	19.0	18.5	19.0	19.0	17.5	18.5
12	16.5	15.5	16.0	22.0	20.5	21.0	18.5	17.5	18.0	19.0	16.5	18.0
13	19.0	15.5	17.0	24.0	21.5	23.0	19.0	16.5	18.0	16.0	13.0	14.5
14	19.5	16.0	18.0	24.5	22.0	23.0	20.0	18.5	19.5	13.0	12.0	12.5
15	17.0	15.5	16.5	23.5	22.0	22.5	20.5	19.0	20.0	14.0	12.5	13.5
16	15.5	13.5	14.5	23.0	22.5	23.0	20.5	20.0	20.0	14.0	13.0	13.5
17	14.5	13.0	13.5	---	---	---	19.5	18.5	19.0	14.5	13.0	14.0
18	16.0	14.0	15.0	---	---	---	19.5	18.0	19.0	15.0	13.5	14.5
19	19.5	16.0	17.5	---	---	---	21.0	19.0	20.0	15.5	14.5	15.0
20	19.0	17.0	18.5	---	---	---	20.5	20.0	20.5	15.0	13.5	14.5
21	---	---	---	---	---	---	21.5	20.0	20.5	13.5	11.0	12.5
22	---	---	---	---	---	---	21.5	20.5	21.0	11.0	9.5	10.0
23	---	---	---	---	---	---	20.5	19.0	20.0	9.5	7.5	8.0
24	---	---	---	---	---	---	19.0	17.5	18.5	10.0	7.5	8.5
25	---	---	---	---	---	---	19.0	17.5	18.0	11.0	9.5	10.5
26	---	---	---	---	---	---	21.0	18.5	20.0	12.5	10.5	11.5
27	---	---	---	---	---	---	21.0	20.0	20.5	14.0	12.5	13.0
28	---	---	---	---	---	---	19.5	18.0	18.5	14.0	13.0	14.0
29	---	---	---	---	---	---	18.0	16.5	17.5	13.0	11.5	12.5
30	---	---	---	---	---	---	17.0	16.0	16.5	11.5	10.0	11.0
31	---	---	---	---	---	---	16.5	16.0	16.0	---	---	---

05408000 KICKAPOO RIVER AT LA FARGE, WIS.--CONTINUED

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	440	450	---	---	440	295	440	395	385	385	375
2	---	---	---	520	430	415	330	440	410	375	395	375
3	445	440	450	505	---	230	295	425	395	385	385	375
4	400	460	---	465	450	120	240	415	385	375	375	385
5	440	---	440	485	460	265	365	430	395	---	375	375
6	450	450	495	---	460	310	---	420	395	385	385	---
7	465	460	450	465	430	---	420	440	---	375	375	385
8	460	460	465	475	440	375	425	---	350	375	385	385
9	450	475	440	475	440	385	430	445	385	385	385	385
10	455	445	445	440	440	440	440	440	330	350	375	375
11	460	450	475	440	440	---	440	425	375	285	365	375
12	450	450	480	---	445	---	440	385	385	---	330	---
13	450	440	455	---	440	430	430	415	425	375	350	375
14	465	395	450	450	440	---	420	385	430	385	280	385
15	460	495	450	440	440	440	330	350	410	385	355	395
16	---	440	---	440	---	440	---	445	420	375	385	385
17	465	443	475	430	---	440	385	420	450	385	375	395
18	440	450	465	440	---	440	410	440	455	375	375	395
19	450	450	450	430	440	---	410	465	445	385	385	385
20	---	---	---	445	430	440	410	330	430	---	385	375
21	485	440	460	430	395	440	415	420	340	385	375	385
22	475	---	465	---	390	450	420	410	395	385	273	395
23	460	440	460	440	415	450	420	410	410	385	375	395
24	435	440	445	440	465	---	440	420	445	365	---	385
25	450	440	440	445	550	485	445	---	385	365	---	420
26	460	445	430	415	495	440	430	---	---	365	375	385
27	465	445	430	375	465	420	445	440	365	365	385	395
28	450	445	440	385	545	---	440	430	365	375	330	385
29	440	445	---	440	---	405	430	430	375	385	375	395
30	---	445	---	440	---	275	445	410	---	385	---	---
31	---	---	---	330	---	---	---	410	---	---	355	---

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8	3	5	---	---	7	40	15	7	25	15	20
2	---	---	---	6	15	25	20	10	8	25	10	15
3	30	6	4	7	---	50	40	8	7	20	15	15
4	75	4	---	5	5	60	35	9	6	30	15	10
5	35	---	6	4	3	30	40	9	9	---	15	10
6	25	5	---	---	4	25	---	9	6	25	15	---
7	30	4	4	5	2	---	15	5	---	30	15	10
8	30	4	2	7	2	20	15	---	55	20	35	15
9	25	---	3	---	3	9	15	3	100	15	25	15
10	20	3	3	4	4	4	9	5	60	75	25	15
11	25	4	6	3	2	---	7	35	25	65	60	15
12	50	4	7	---	3	---	3	20	20	---	45	---
13	25	5	5	---	4	10	15	7	15	25	35	15
14	15	5	6	4	3	---	65	65	15	30	30	15
15	10	---	6	3	4	6	45	30	65	30	10	8
16	---	15	---	4	---	5	---	15	25	30	20	10
17	3	8	8	2	---	6	15	30	10	25	20	9
18	4	4	7	2	---	7	15	20	15	25	15	7
19	4	6	5	3	6	---	10	15	35	25	15	6
20	---	---	---	3	4	3	10	10	15	---	10	7
21	5	85	6	4	8	3	15	20	30	20	20	6
22	4	---	3	---	8	3	15	25	50	20	300	10
23	3	9	3	3	4	4	5	15	15	20	45	3
24	---	5	3	3	4	---	4	15	30	15	---	4
25	3	5	4	3	6	3	6	5	25	25	---	4
26	5	7	4	5	4	4	9	---	---	20	20	7
27	7	4	5	15	4	5	8	7	30	10	25	5
28	3	4	4	6	---	---	5	6	25	10	15	6
29	2	5	3	5	---	20	20	8	25	15	15	2
30	---	7	---	4	---	30	10	10	---	15	---	---
31	---	---	---	30	---	---	---	9	---	---	25	---

05408000 KICKAPOO RIVER AT LA FARGE, WIS.--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	221	182	114	206	37	21	142	25	9.6
2	217	323	191	186	32	16	167	19	8.6
3	215	312	183	174	26	12	178	14	6.7
4	304	610	489	169	28	13	189	17	8.7
5	215	162	94	166	20	9.0	210	19	11
6	191	82	42	163	11	4.8	195	16	8.4
7	196	79	42	166	14	6.3	159	11	4.7
8	194	104	54	170	16	7.3	160	11	4.8
9	188	106	54	161	10	4.3	170	12	5.5
10	191	105	54	160	5	2.2	160	9	3.9
11	201	111	60	168	16	7.3	170	30	14
12	222	200	120	169	14	6.4	180	22	11
13	201	136	74	174	20	9.4	170	21	9.6
14	186	57	29	173	19	8.9	170	34	16
15	180	51	25	209	564	318	170	15	6.9
16	173	37	17	245	588	389	170	22	10
17	171	25	12	193	20	10	170	30	14
18	173	24	11	190	12	6.2	160	48	21
19	173	22	10	185	26	13	160	12	5.2
20	171	26	12	181	24	12	160	30	13
21	170	30	14	270	79	58	160	49	21
22	170	30	14	265	42	30	160	32	14
23	170	28	13	209	25	14	160	25	11
24	171	33	15	203	20	11	170	19	8.7
25	171	39	18	212	25	14	170	42	19
26	170	37	17	201	32	17	180	22	11
27	167	33	15	197	28	15	170	22	10
28	175	24	11	191	20	10	160	21	9.1
29	213	51	29	188	24	12	150	22	8.9
30	187	48	24	184	19	9.4	140	17	6.4
31	198	45	24	--	--	--	140	19	7.2
TOTAL	5945	--	1881	5728	--	1066.5	5170	--	318.9

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	140	20	7.6	150	60	24	180	6	2.9
2	140	26	9.8	150	17	6.9	260	124	125
3	140	28	11	150	16	6.5	1500	1040	4910
4	140	15	5.7	140	8	3.0	2110	1580	10100
5	140	11	4.2	140	11	4.2	478	210	271
6	140	18	6.8	140	17	6.4	457	168	207
7	140	26	9.8	140	15	5.7	429	142	164
8	140	17	6.4	140	7	2.6	297	67	54
9	140	12	4.5	150	12	4.9	295	36	29
10	140	6	2.3	150	11	4.5	278	48	36
11	140	6	2.3	160	8	3.5	237	38	24
12	140	5	1.9	160	18	7.8	227	30	18
13	140	5	1.9	160	12	5.2	209	20	11
14	150	4	1.6	160	12	5.2	203	16	8.8
15	150	7	2.8	160	19	8.2	200	12	6.5
16	160	4	1.7	170	18	8.3	218	12	7.1
17	180	10	4.9	170	16	7.3	204	6	3.3
18	190	4	2.1	180	15	7.3	200	8	4.3
19	200	4	2.2	180	14	6.8	215	15	8.7
20	210	7	4.0	190	13	6.7	195	7	3.7
21	210	24	14	200	23	12	186	9	4.5
22	210	32	18	200	29	16	182	8	3.9
23	200	9	4.9	180	14	6.8	165	8	3.6
24	190	6	3.1	170	10	4.6	173	13	6.1
25	190	8	4.1	180	10	4.9	204	16	8.8
26	200	14	7.6	180	10	4.9	218	20	12
27	250	13	8.8	180	11	5.3	197	13	6.9
28	210	12	6.8	180	8	3.9	193	15	7.8
29	200	10	5.4	--	--	--	268	45	33
30	210	49	43	--	--	--	773	739	1620
31	300	147	190	--	--	--	493	212	282
TOTAL	5430	--	399.2	4610	--	193.4	11444	--	17982.9

05408000 KICKAPOO RIVER AT LA FARGE, WIS.--CONTINUED
SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	522	222	313	185	30	15	164	18	8.0
2	325	78	68	178	28	13	166	14	6.3
3	517	634	1030	180	32	16	166	10	4.5
4	823	1370	3340	171	28	13	174	16	7.5
5	363	132	129	166	29	13	161	8	3.5
6	296	95	76	163	22	9.7	160	6	2.6
7	285	44	34	158	16	6.8	252	66	45
8	261	28	20	174	14	6.6	406	115	126
9	243	24	16	185	8	4.0	393	290	308
10	239	23	15	180	12	5.8	401	194	210
11	238	32	21	300	85	69	276	55	41
12	277	41	31	268	54	39	222	28	17
13	279	48	36	221	28	17	201	22	12
14	553	507	883	508	295	420	194	19	10
15	678	558	1070	333	83	75	246	25	17
16	493	242	322	296	78	62	206	12	6.7
17	357	72	69	262	130	92	192	21	11
18	311	62	52	227	77	47	186	28	14
19	278	32	24	225	50	30	221	14	8.4
20	276	35	26	220	48	29	215	158	92
21	293	54	43	221	80	48	439	233	276
22	263	44	31	270	150	109	253	170	116
23	243	15	9.8	220	66	39	207	90	50
24	223	10	6.0	198	50	27	190	84	43
25	214	15	8.7	191	26	13	179	78	38
26	208	28	16	184	25	12	172	85	39
27	202	30	16	179	24	12	166	92	41
28	198	22	12	178	23	11	159	76	33
29	237	38	24	180	24	12	156	74	31
30	197	50	27	177	22	11	155	73	31
31	--	--	--	157	18	7.6	--	--	--
TOTAL	9892	--	7768.5	6755	--	1284.5	6678	--	1648.5

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	151	70	29	124	23	7.7	134	45	16
2	153	67	28	126	26	8.8	127	30	10
3	150	65	26	137	28	10	126	33	11
4	162	72	31	157	16	6.8	125	30	10
5	155	64	27	133	10	3.6	120	34	11
6	145	54	21	126	20	6.8	120	32	10
7	139	48	18	139	41	15	122	30	9.9
8	137	48	18	128	72	25	126	33	11
9	136	45	17	123	51	17	123	28	9.3
10	191	181	93	130	48	17	122	34	11
11	202	141	77	224	126	76	124	34	11
12	149	65	26	191	88	45	125	34	11
13	143	56	22	196	73	39	137	35	13
14	137	60	22	144	48	19	131	15	5.3
15	134	60	22	132	39	14	126	14	4.8
16	129	66	23	135	41	15	123	22	7.3
17	128	64	22	148	59	24	122	18	5.9
18	128	62	21	134	44	16	122	22	7.2
19	131	57	20	128	44	15	122	25	8.2
20	133	55	20	126	44	15	122	20	6.6
21	126	52	18	138	46	17	120	12	3.9
22	130	51	18	279	510	384	120	11	3.6
23	140	58	22	171	100	46	123	11	3.7
24	128	50	17	138	65	24	136	9	3.3
25	157	56	24	133	50	18	128	6	2.1
26	155	62	26	131	42	15	130	14	4.9
27	135	24	8.7	134	48	17	129	20	7.0
28	130	33	12	132	40	14	129	18	6.3
29	129	27	9.4	127	39	13	139	13	4.9
30	128	29	10	127	40	14	136	12	4.4
31	126	26	8.8	151	55	22	--	--	--
TOTAL	4417	--	756.9	4542	--	979.7	3789	--	233.6

05408000 KICKAPOO RIVER AT LA FARGE, WIS.--CONTINUED

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT., 1973							
04...	0730	295	657	523	35	41	51
17...	1000	170	27	12	27	34	45
MAR., 1974							
04...	1830	1260	417	1366	28	37	46
JULY							
24...	1730	112	50	18	46	62	75

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT., 1973						
04...	63	88	98	99	100	--
17...	53	71	84	93	100	--
MAR., 1974						
04...	59	78	87	88	93	100
JULY						
24...	86	93	99	100	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT., 1973												
17...	1000	170	15	29	58	81	86	87	88	89	93	100
MAR., 1974												
04...	1830	1260	0	1	6	76	97	98	99	100	--	--
JULY												
24...	1730	112	11	32	55	73	76	77	78	82	90	100

05409870 NEDERLO CREEK AT UTICA TOWN HALL NEAR GAYS MILLS, WIS.
(FORMERLY PUBLISHED AS NEDERLO CREEK NEAR GAYS MILLS, WIS.)

LOCATION.--LAT 43°21'30", LONG 90°53'49", IN NW 1/4 SEC.7, T.10 N., R.4 W., CRAWFORD COUNTY, TEMPERATURE RECORDER ON LEFT BANK JUST UPSTREAM FROM BRIDGE ON TOWN ROAD 0.1 MI (0.2 KM) SOUTH OF JUNCTION OF TWO TOWN ROADS, AND 3.0 MI (4.8 KM) NORTHWEST OF GAYS MILLS.

DRAINAGE AREA.--6.7 MI^2 (17.6 KM^2).

PERIOD OF RECORD.--WATER TEMPERATURES: NOVEMBER 1967 TO SEPTEMBER 1972; OCTOBER 1973 TO SEPTEMBER 1974.

EXTREMES.--1973-74:
WATER TEMPERATURES: MAXIMUM, 25.5°C JUNE 4, 1974; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.

PERIOD OF RECORD:
WATER TEMPERATURES: MAXIMUM, 26.5°C JUNE 29, JULY 2, 1970; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER PERIOD.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	9.0	6.0	6.0	3.0	---	---	1.5	0.0	8.0	---
2	13.5	11.5	9.5	6.0	8.5	4.5	---	---	4.5	0.0	10.0	1.5
3	15.5	11.0	8.5	6.0	8.5	6.0	---	---	4.0	0.5	3.5	1.0
4	14.0	12.0	8.0	5.0	6.0	4.0	1.0	0.0	2.0	0.5	5.5	3.0
5	13.5	8.5	5.0	3.5	6.0	4.0	1.5	0.0	3.5	1.0	8.5	3.5
6	11.5	8.5	6.5	3.0	4.5	2.0	2.0	0.5	4.0	0.5	11.5	4.5
7	13.0	10.5	7.0	6.0	4.0	1.0	0.5	0.0	1.5	0.5	10.0	5.0
8	16.0	11.0	6.0	4.0	5.5	3.0	1.0	0.0	1.0	0.5	7.0	5.5
9	15.5	13.0	4.5	2.0	5.0	3.0	1.5	0.0	3.0	1.0	7.0	4.5
10	14.5	11.5	6.5	2.0	3.0	0.5	3.0	1.5	4.5	2.0	10.0	4.0
11	16.0	11.5	8.5	5.5	4.5	0.5	1.5	0.0	5.5	---	7.0	5.0
12	13.5	10.5	9.5	6.0	5.0	2.0	0.5	0.0	7.0	2.0	11.0	5.0
13	14.0	9.5	10.0	6.0	4.0	1.5	3.0	0.5	5.5	3.0	10.5	4.5
14	14.0	14.0	9.0	5.5	3.0	1.5	5.0	3.0	5.0	1.5	6.5	4.5
15	12.0	---	8.5	6.0	4.0	0.5	5.0	3.5	5.0	0.5	6.5	5.0
16	10.5	---	7.0	5.0	1.5	0.0	7.0	3.5	6.5	3.5	8.0	5.0
17	10.5	7.0	8.5	4.5	3.0	0.0	5.5	4.0	7.0	1.5	9.0	5.0
18	11.0	7.0	9.5	6.0	4.5	3.0	6.5	5.0	8.0	4.0	8.0	6.0
19	12.0	7.0	8.0	5.0	4.5	0.5	5.5	5.0	7.0	2.0	9.5	3.5
20	11.0	6.5	9.5	7.0	1.0	0.0	6.0	5.0	8.5	3.5	6.5	3.0
21	11.5	6.5	10.0	6.5	0.5	0.0	6.0	5.0	---	---	8.5	2.0
22	13.0	8.0	8.0	5.0	4.0	0.5	6.5	5.0	---	---	5.5	2.0
23	13.5	9.0	7.0	4.0	5.0	2.0	5.5	3.5	---	---	6.5	0.5
24	13.5	9.0	8.0	6.0	5.0	4.0	5.5	3.5	---	---	5.5	0.5
25	11.5	10.0	8.5	6.5	6.0	5.0	6.0	3.5	---	---	9.0	1.5
26	11.5	6.5	8.0	6.0	6.0	5.5	6.5	3.5	---	---	10.0	5.0
27	10.0	8.5	8.5	6.0	---	---	6.0	3.5	---	---	7.0	5.0
28	8.5	8.0	6.0	4.5	---	---	5.5	3.5	---	---	5.5	5.0
29	10.0	7.0	6.5	4.0	---	---	6.0	4.5	---	---	6.0	2.0
30	10.5	6.0	6.0	3.5	---	---	6.5	4.5	---	---	8.5	3.0
31	10.5	8.0	---	---	---	---	4.5	1.0	---	---	9.0	4.5

05409870 NEDERLO CREEK AT UTICA TOWN HALL NEAR GAYS MILLS, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	19.5	7.5	23.5	12.5	---	---	17.0	13.0	14.5	9.0
2	12.0	4.5	20.0	9.0	24.5	14.5	---	---	14.5	11.5	14.5	10.0
3	8.5	6.5	18.5	10.0	23.5	14.5	---	---	16.0	11.5	15.0	8.0
4	7.0	5.0	18.0	7.0	25.5	16.0	---	---	20.0	12.0	16.0	8.0
5	11.5	4.0	16.0	9.0	22.5	16.0	---	---	20.5	10.5	14.5	8.5
6	11.5	4.0	17.0	6.0	20.5	16.5	---	---	19.5	11.5	15.5	9.0
7	9.0	5.0	11.5	6.5	18.0	15.5	---	---	19.0	12.0	15.5	11.0
8	12.0	3.5	9.5	7.5	22.0	14.0	---	---	19.5	11.0	18.5	10.5
9	12.0	6.0	11.0	6.5	24.0	16.0	---	---	20.0	12.0	18.5	11.0
10	12.0	5.5	12.5	7.0	19.5	16.0	---	---	16.5	13.0	16.5	12.0
11	9.5	8.5	14.5	10.0	23.0	14.0	20.5	14.5	17.0	12.5	18.0	12.5
12	12.0	8.5	11.5	8.5	22.5	13.5	22.0	13.0	16.0	11.0	13.5	11.0
13	13.5	8.0	8.5	6.5	23.5	15.0	25.0	13.5	19.0	11.0	12.5	9.5
14	9.5	3.5	14.0	8.0	23.0	14.5	23.0	14.0	20.0	12.0	15.5	7.5
15	14.5	5.0	16.5	9.0	19.5	14.5	22.5	12.5	19.0	12.0	16.0	9.5
16	16.0	5.0	12.5	9.5	18.5	14.5	23.0	12.5	17.0	12.5	15.5	8.0
17	16.5	5.5	17.5	10.0	20.5	14.0	22.0	13.5	17.0	11.0	17.0	9.0
18	14.0	8.0	12.0	10.0	24.0	13.5	22.0	14.0	20.0	11.0	16.5	9.0
19	15.5	5.0	19.0	9.5	21.5	15.5	25.0	14.5	21.5	12.0	16.0	10.0
20	16.5	8.0	18.0	11.5	25.0	15.0	24.0	14.5	19.0	12.5	14.5	8.5
21	16.5	10.0	21.5	12.0	22.5	18.0	23.5	14.0	21.0	12.5	12.0	8.5
22	10.0	8.0	22.0	12.0	21.0	15.5	24.5	16.0	20.0	13.0	12.0	6.5
23	11.5	5.5	24.0	10.0	22.5	13.5	23.5	14.0	18.5	11.0	9.0	6.0
24	16.0	4.5	18.5	15.0	19.0	13.5	22.5	15.0	19.0	10.0	13.5	8.5
25	19.0	8.5	22.0	13.0	---	---	20.5	15.5	19.0	11.0	14.0	8.0
26	19.5	8.0	19.5	12.0	---	---	23.5	14.5	21.0	13.0	15.5	8.0
27	20.0	10.0	19.0	12.0	---	---	21.5	13.5	18.0	12.5	13.5	9.5
28	19.0	11.5	17.0	14.5	---	---	24.0	13.5	17.0	10.0	11.5	9.5
29	17.0	11.5	20.5	15.0	---	---	18.5	13.5	17.5	10.0	13.0	8.5
30	18.5	9.0	18.5	14.0	---	---	---	---	17.5	9.5	12.0	7.0
31	---	---	22.0	15.0	---	---	---	---	16.5	10.0	---	---

05430500 ROCK RIVER AT AFTON, WIS.

LOCATION.--LAT 42°36'33", LONG 89°04'14", IN NE 1/4 SEC.28, T.2 N., R.12 E., ROCK COUNTY, TEMPERATURE RECORDER AT GAGING STATION ON RIGHT BANK IN AFTON, 0.3 MI (0.5 KM) DOWNSTREAM FROM HIGHWAY BRIDGE, AND 1.1 MI (1.8 KM) UPSTREAM FROM BASS CREEK.

DRAINAGE AREA.--3,300 MI^2 (8,547 KM^2), APPROXIMATELY.

PERIOD OF RECORD.--WATER TEMPERATURES: SEPTEMBER 1954 TO SEPTEMBER 1974.

EXTREMES.--
PERIOD OF RECORD:
WATER TEMPERATURES: MAXIMUM RECORDED, 32.0°C JULY 27-30, AUG. 4, 1955, JULY 26, 28, 1964; MINIMUM, FREEZING POINT ON MANY DAYS DURING WINTER MONTHS 1954-68, 1971-73.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.0	8.0	5.5	5.0	1.5	1.5	4.0	3.0	3.5	3.0
2	---	---	8.5	8.0	5.0	5.0	1.5	1.5	3.0	3.0	3.5	3.0
3	---	---	8.0	7.0	5.5	5.0	2.0	1.5	3.0	2.0	4.0	3.5
4	---	15.5	8.0	7.0	5.5	5.5	2.0	2.0	3.0	3.0	4.0	4.0
5	15.5	15.0	7.0	5.5	5.5	5.5	2.0	2.0	3.0	2.0	4.0	3.0
6	15.0	14.5	5.5	4.5	5.5	5.0	2.0	2.0	2.0	2.0	3.5	3.0
7	14.5	14.0	5.0	4.5	5.0	4.0	2.0	2.0	2.0	2.0	3.5	3.0
8	15.0	14.5	4.5	4.0	4.0	4.0	2.0	2.0	2.0	2.0	3.5	3.0
9	16.0	15.0	4.0	3.0	4.0	3.5	2.0	2.0	3.0	2.0	3.0	2.0
10	16.5	16.0	3.0	1.5	4.0	3.5	2.0	2.0	3.0	2.0	3.5	2.0
11	18.0	16.5	2.0	2.0	3.5	3.5	2.0	2.0	3.0	2.0	2.0	2.0
12	18.0	17.0	3.0	2.0	3.5	3.0	2.0	2.0	3.0	3.0	2.0	2.0
13	17.0	16.0	4.0	3.0	3.0	3.0	---	---	3.0	3.0	3.0	2.0
14	16.0	15.5	5.5	3.5	3.0	3.0	---	---	3.0	3.0	3.0	3.0
15	15.5	15.0	5.5	5.5	3.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0
16	15.0	13.5	5.5	5.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0
17	13.5	12.0	5.0	4.5	3.0	3.0	3.0	2.0	3.5	3.0	2.0	2.0
18	12.0	11.5	5.0	4.5	3.0	3.0	2.0	1.5	3.5	3.5	2.0	2.0
19	11.5	11.0	5.5	5.0	3.0	3.0	1.5	1.5	3.5	2.0	3.0	2.0
20	11.5	11.0	6.0	5.5	3.0	3.0	2.0	1.5	3.0	3.0	3.0	2.0
21	11.5	11.0	7.0	6.0	3.0	3.0	4.0	2.0	3.0	3.0	2.0	2.0
22	12.0	11.0	7.0	6.5	3.0	3.0	4.0	3.0	3.0	2.0	2.0	2.0
23	13.0	11.5	6.5	6.5	3.0	3.0	4.0	3.0	3.0	2.0	2.0	1.0
24	13.5	12.0	7.0	6.5	3.0	3.0	3.5	3.0	2.0	1.5	1.0	0.5
25	13.0	13.0	7.0	7.0	3.0	3.0	4.0	3.0	2.0	1.5	0.5	0.0
26	13.0	12.0	7.0	6.5	3.5	3.0	4.0	4.0	2.0	1.5	0.5	0.0
27	12.0	11.5	6.5	6.5	3.5	3.5	4.0	3.5	2.0	1.5	0.5	0.5
28	11.5	10.5	6.5	6.5	3.5	3.5	3.5	3.5	3.5	2.0	0.5	0.5
29	10.5	9.5	6.5	6.0	3.5	3.5	3.5	3.5	---	---	0.5	0.5
30	9.5	9.0	6.0	5.5	3.5	3.0	3.5	3.5	---	---	0.5	0.5
31	9.5	9.0	---	---	3.0	1.5	4.0	3.5	---	---	1.0	0.5

05430500 ROCK RIVER AT AFTON, WIS.--CONTINUED

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	15.5	15.0	19.0	18.0	---	---	---	---	21.0	19.5
2	3.5	1.5	15.0	15.0	20.0	18.5	---	---	---	---	20.0	19.0
3	4.5	3.5	15.5	15.0	20.0	19.0	---	---	---	---	19.5	18.0
4	4.5	4.0	15.5	15.0	20.0	19.5	---	---	---	---	18.0	16.5
5	4.0	4.0	15.0	15.0	---	---	---	---	---	---	18.5	16.5
6	4.5	4.0	15.0	14.0	---	---	---	---	---	---	19.0	17.0
7	5.0	4.5	14.0	12.0	---	---	---	---	---	---	19.0	16.5
8	5.0	4.5	12.0	11.0	---	---	---	---	---	---	20.5	16.5
9	4.5	4.5	---	10.0	---	---	---	---	---	---	20.5	18.0
10	5.0	4.5	---	10.0	---	---	24.0	23.0	---	---	20.5	19.0
11	6.0	5.0	---	10.5	---	---	---	---	---	---	22.0	20.0
12	8.5	6.0	18.0	11.5	---	17.0	---	---	---	---	21.5	19.5
13	9.5	8.5	---	10.5	---	---	---	---	---	---	19.5	17.0
14	9.5	9.5	19.0	10.5	---	18.0	---	---	---	---	18.5	16.5
15	9.5	9.0	---	11.0	---	---	24.5	23.0	---	---	19.5	16.5
16	9.5	9.0	---	12.0	---	---	24.0	22.0	---	---	19.0	16.0
17	11.0	9.5	12.0	12.0	---	---	25.0	24.0	---	---	20.0	16.5
18	11.0	11.0	12.0	12.0	---	---	---	---	---	---	20.0	17.0
19	11.0	10.5	12.0	12.0	---	---	---	---	---	---	20.5	18.0
20	11.0	10.5	13.5	12.0	---	---	24.5	23.0	---	---	19.5	18.0
21	12.0	11.0	16.0	13.5	---	---	---	---	24.0	22.0	18.0	16.5
22	12.0	11.5	17.0	16.0	---	---	---	---	23.5	22.0	16.5	14.5
23	12.0	10.5	18.5	17.0	---	---	---	---	23.0	21.0	15.0	14.0
24	10.5	10.0	18.5	16.5	---	---	---	---	22.0	20.5	14.5	13.5
25	11.0	10.0	16.5	16.0	---	---	---	---	22.0	20.5	16.0	14.0
26	11.5	11.0	17.0	16.0	---	---	---	---	23.5	21.0	17.0	14.0
27	13.5	11.5	18.0	17.0	---	---	---	---	24.0	21.5	17.0	15.0
28	14.5	13.5	18.0	17.0	---	---	---	---	22.0	21.0	17.0	15.5
29	14.5	14.5	18.0	17.0	---	---	---	---	23.5	21.0	16.0	14.5
30	15.0	14.5	18.0	18.0	---	---	---	---	21.5	20.0	15.5	14.0
31	---	---	18.5	18.0	---	---	---	---	21.0	20.0	---	---

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE SUPERIOR

04024430 - NEMADJI RIVER NR. SOUTH SUPERIOR, WIS. (LAT 46 38 00 LONG 092 05 38)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG., 1974												
08...	1115	320	9.2	450	20	18	5.0	2.0	.9	67	55	8.3

DATE	TIME	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)
AUG., 1974													
08...		2.3	.4	.08	.01	.00	.00	.09	.06	2.5	.00	.05	.06

DATE	TIME	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)
AUG., 1974													
08...		.89	.68	.89	.73	110	.98	4.3	.09	.04	.04	.02	160

DATE	TIME	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
AUG., 1974													
08...		.06	80	.11	69.1	66	11	6	.1	160	21.0	<.1	1.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
AUG., 1974									
08...	1115	320	1	2	80	1	<10	<10	0

DATE	TIME	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
AUG., 1974									
08...		3	<10	16	<10	.2	.0	0	<10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

04024430 - NEMADJI RIVER NR. SOUTH SUPERIOR, WIS. (LAT 46 38 00 LONG 092 05 38)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
AUG., 1974												
08...	1115	320	.00	.0	.0	0	.00	.0	.00	.0	.00	.0

DATE	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
AUG., 1974												
08...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)
AUG., 1974											
08...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0

DATE	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
AUG., 1974											
08...	0	0	0	.00	.0	.00	0	.00	0	.00	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
STREAMS TRIBUTARY TO LAKE MICHIGAN											
04073180 - MECAN RIVER NR. HANCOCK, WIS. (LAT 44 03 04 LONG 089 27 50)											
NOV., 1973											
21...	1400	17	16	90	10	45	21	2.1	.8	222	0
DEC.											
21...	1550	--	14	0	0	37	25	2.7	1.0	229	0
04085397 - MUD LAKE NR NEW HOLSTEIN, WIS. (LAT 43 57 39 LONG 088 00 01)											
MAY , 1974											
31...	0730	--	1.7	60	67	49	24	1.8	2.2	249	0
04085411 - MANITOWOC RIVER NR VALDERS, WIS. (LAT 44 04 31 LONG 087 55 30.01)											
MAY , 1974											
30...	1630	--	3.1	240	140	83	39	12	3.4	371	0
04085446 - HORSESHOE LAKE NR. SCHOOL HILL, WIS. (LAT 43 55 46 LONG 087 53 22)											
MAY , 1974											
29...	1600	--	.6	40	0	66	33	4.9	1.7	290	12
04085452 - PIGEON LAKE NR CLEVELAND, WIS. (LAT 43 59 22 LONG 087 52 10)											
MAY , 1974											
30...	1900	--	1.9	0	0	39	30	3.4	1.6	238	0
04085498 - WILKE LAKE NR. SCHOOL HILL, WIS. (LAT 43 58 02 LONG 087 57 43)											
MAY , 1974											
31...	0800	--	.4	10	0	43	28	4.2	2.9	240	0
04085500 - CEDAR LAKE NR. KIEL, WIS. (LAT 43 55 35 LONG 087 56 25)											
MAY , 1974											
31...	1300	--	.5	10	0	31	22	2.3	1.9	181	0
04085520 - SHEBOYGAN RIVER NR. MILLHOME, WIS. (LAT 43 53 42 LONG 087 57 45.01)											
MAY , 1974											
31...	1400	--	3.0	150	33	71	36	8.3	2.2	333	0
04087220 - ROOT RIVER NR. FRANKLIN, WIS. (LAT 42 52 25 LONG 087 59 45)											
OCT., 1973											
03...	1900	32	--	--	--	--	--	--	--	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT., 1973									
03...	1900	32	2	1	8	10	30	.0	52

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued										
04073180 - MECAN RIVER NR. HANCOCK, WIS. (LAT 44 03 04 LONG 089 27 50)										
NOV., 1973										
21...	182	5.6	1.4	.1	--	--	--	--	1.9	--
DEC.										
21...	188	7.1	2.5	.1	--	--	--	--	2.2	--
04085397 - MUD LAKE NR NEW HOLSTEIN, WIS. (LAT 43 57 39 LONG 088 00 01)										
MAY , 1974										
31...	204	6.0	3.8	.3	.04	.18	.13	.43	.17	--
04085411 - MANITOWOC RIVER NR VALDERS, WIS. (LAT 44 04 31 LONG 087 55 30.01)										
MAY , 1974										
30...	304	41	21	.4	1.1	4.8	.01	.03	1.1	--
04085446 - HORSESHOE LAKE NR. SCHOOL HILL, WIS. (LAT 43 55 46 LONG 087 53 22)										
MAY , 1974										
29...	258	25	10	.3	.01	.04	.11	.36	.12	--
04085452 - PIGEON LAKE NR CLEVELAND, WIS. (LAT 43 59 22 LONG 087 52 10)										
MAY , 1974										
30...	195	16	3.9	.1	.11	.49	.01	.03	.12	--
04085498 - WILKE LAKE NR. SCHOOL HILL, WIS. (LAT 43 58 02 LONG 087 57 43)										
MAY , 1974										
31...	197	17	6.8	.2	.41	1.8	.01	.03	.42	--
04085500 - CEDAR LAKE NR. KIEL, WIS. (LAT 43 55 35 LONG 087 56 25)										
MAY , 1974										
31...	148	9.0	6.1	.2	.11	.49	.01	.03	.12	--
04085520 - SHEBOYGAN RIVER NR. MILLHOME, WIS. (LAT 43 53 42 LONG 087 57 45.01)										
MAY , 1974										
31...	273	25	30	.7	.79	3.5	.31	1.0	1.1	--
04087220 - ROOT RIVER NR. FRANKLIN, WIS. (LAT 42 52 25 LONG 087 59 45)										
OCT., 1973										
03...	--	--	--	--	--	--	--	--	--	.1

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
OCT., 1973												
03...	1900	32	.0	0	18	6.9	4.5	.0	2.5	.0	.0	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued										
04073180 - MECAN RIVER NR. HANCOCK, WIS. (LAT 44 03 04 LONG 089 27 50)										
NOV., 1973										
21...	--	--	--	--	--	--	210	.29	9.64	200
DEC.										
21...	--	--	.01	--	.03	216	212	.29	--	200
04085397 - MUD LAKE NR NEW HOLSTEIN, WIS. (LAT 43 57 39 LONG 088 00 01)										
MAY , 1974										
31...	--	--	--	--	--	235	212	.32	--	220
04085411 - MANITOWOC RIVER NR VALDERS, WIS. (LAT 44 04 31 LONG 087 55 30.01)										
MAY , 1974										
30...	--	--	--	--	--	429	391	.58	--	370
04085446 - HORSESHOE LAKE NR. SCHOOL HILL, WIS. (LAT 43 55 46 LONG 087 53 22)										
MAY , 1974										
29...	--	--	--	--	--	325	297	.44	--	300
04085452 - PIGEON LAKE NR CLEVELAND, WIS. (LAT 43 59 22 LONG 087 52 10)										
MAY , 1974										
30...	--	--	--	--	--	227	214	.31	--	220
04085498 - WILKE LAKE NR. SCHOOL HILL, WIS. (LAT 43 58 02 LONG 087 57 43)										
MAY , 1974										
31...	--	--	--	--	--	212	223	.29	--	220
04085500 - CEDAR LAKE NR. KIEL, WIS. (LAT 43 55 35 LONG 087 56 25)										
MAY , 1974										
31...	--	--	--	--	--	180	163	.24	--	170
04085520 - SHEBOYGAN RIVER NR. MILLHOME, WIS. (LAT 43 53 42 LONG 087 57 45.01)										
MAY , 1974										
31...	--	--	--	--	--	379	345	.52	--	330
04087220 - ROOT RIVER NR. FRANKLIN, WIS. (LAT 42 52 25 LONG 087 59 45)										
OCT., 1973										
03...	13	2190	--	240	--	--	--	--	--	--

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
OCT., 1973												
03...	.0	.0	.0	.0	.0	.0	10	0	.0	0	0	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued										
04073180 - MECAN RIVER NR. HANCOCK, WIS. (LAT 44 03 04 LONG 089 27 50)										
NOV., 1973										
21...	18	2	.1	360	7.8	--	5	5.6	--	--
DEC.										
21...	7	3	.1	380	7.9	--	5	4.6	--	--
04085397 - MUD LAKE NR NEW HOLSTEIN, WIS. (LAT 43 57 39 LONG 088 00 01)										
MAY , 1974										
31...	17	2	.1	390	7.3	15.0	50	20	--	--
04085411 - MANITOWOC RIVER NR VALDERS, WIS. (LAT 44 04 31 LONG 087 55 30.01)										
MAY , 1974										
30...	64	7	.3	700	7.6	16.0	100	15	--	--
04085446 - HORSESHOE LAKE NR. SCHOOL HILL, WIS. (LAT 43 55 46 LONG 087 53 22)										
MAY , 1974										
29...	43	3	.1	510	8.6	17.5	40	1.3	--	--
04085452 - PIGEON LAKE NR CLEVELAND, WIS. (LAT 43 59 22 LONG 087 52 10)										
MAY , 1974										
30...	26	3	.1	390	8.3	15.5	6	1.9	--	--
04085498 - WILKE LAKE NR. SCHOOL HILL, WIS. (LAT 43 58 02 LONG 087 57 43)										
MAY , 1974										
31...	26	4	.1	410	8.0	15.5	10	3.8	--	--
04085500 - CEDAR LAKE NR. KIEL, WIS. (LAT 43 55 35 LONG 087 56 25)										
MAY , 1974										
31...	20	3	.1	310	8.2	16.5	2	1.8	--	--
04085520 - SHEBOYGAN RIVER NR. MILLHOME, WIS. (LAT 43 53 42 LONG 087 57 45.01)										
MAY , 1974										
31...	52	5	.2	600	7.9	16.5	70	6.7	--	--
04087220 - ROOT RIVER NR. FRANKLIN, WIS. (LAT 42 52 25 LONG 087 59 45)										
OCT., 1973										
03...	--	--	--	--	--	17.0	--	--	5.5	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
435527087562701 - CEDAR L. NR KIEL, WIS.-SITE 2-EPILIMNION (LAT 43 55 27 LONG 087 56 27.01)										
JULY, 1974										
09...	1430	.5	171	0	140	.00	.00	.00	.00	.00
AUG.										
06...	1200	.9	172	5	149	.01	.00	.00	.00	.00
SEP.										
12...	1200	.6	179	0	147	.00	.00	.00	.00	.00
435527087562702 - CEDAR L. NR KIEL, WIS.-SITE 2-HYPOLIMNION (LAT 43 55 27 LONG 087 56 27.02)										
JULY, 1974										
09...	1430	.5	177	0	145	.00	.00	.00	.00	.00
AUG.										
06...	1200	.9	175	5	152	.01	.00	.00	.00	.00
SEP.										
12...	1200	.6	172	7	153	.00	.00	.00	.00	.00
435534087561101 - CEDAR L. NR KIEL, WIS.-SITE 1-EPILIMNION (LAT 43 55 34 LONG 087 56 11.01)										
JULY, 1974										
09...	1300	.6	172	0	141	.00	.00	.00	.00	.00
AUG.										
06...	0900	.9	172	5	149	.01	.00	.00	.00	.00
SEP.										
12...	1200	.8	173	8	155	.00	.00	.00	.00	.01
435534087561102 - CEDAR L. NR KIEL, WIS.-SITE 1-HYPOLIMNION (LAT 43 55 34 LONG 087 56 11.02)										
JULY, 1974										
09...	1300	.5	178	0	146	.00	.00	.00	.00	.00
AUG.										
06...	0900	.9	170	4	146	.01	.00	.00	.00	.00
SEP.										
12...	1200	.6	179	0	147	.00	.00	.00	.00	.00

DATE	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
435527087562701 - CEDAR L. NR KIEL, WIS.-SITE 2-EPILIMNION (LAT 43 55 27 LONG 087 56 27.01)										
JULY, 1974										
09...	.00	.00	.00	.01	.01	.01	.65	.56	.64	.55
AUG.										
06...	.00	.01	.00	.00	.01	.01	.93	.50	.93	.49
SEP.										
12...	.00	.00	.00	.02	.00	.00	.71	.49	.69	.49
435527087562702 - CEDAR L. NR KIEL, WIS.-SITE 2-HYPOLIMNION (LAT 43 55 27 LONG 087 56 27.02)										
JULY, 1974										
09...	.00	.00	.00	.05	.01	.01	.66	.56	.61	.55
AUG.										
06...	.00	.01	.00	.00	.03	.04	1.2	.46	1.2	.43
SEP.										
12...	.00	.00	.00	.02	.00	.00	.70	.49	.68	.49
435534087561101 - CEDAR L. NR KIEL, WIS.-SITE 1-EPILIMNION (LAT 43 55 34 LONG 087 56 11.01)										
JULY, 1974										
09...	.00	.00	.00	.03	.01	.01	.72	.54	.69	.53
AUG.										
06...	.00	.01	.00	.00	.02	.03	.87	.65	.87	.63
SEP.										
12...	.03	.01	.00	.00	.02	.03	.67	.53	.67	.51
435534087561102 - CEDAR L. NR KIEL, WIS.-SITE 1-HYPOLIMNION (LAT 43 55 34 LONG 087 56 11.02)										
JULY, 1974										
09...	.00	.00	.00	.03	.01	.01	.66	.53	.63	.52
AUG.										
06...	.00	.01	.00	.00	.00	.00	.80	.56	.80	.56
SEP.										
12...	.00	.00	.00	.00	.00	.00	.63	.51	.63	.51

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
435527087562701 - CEDAR L. NR KIEL, WIS.-SITE 2-EPILIMNION (LAT 43 55 27 LONG 087 56 27.01)									
JULY, 1974									
09...	.65	.09	.56	.65	2.9	.00	.01	.01	.00
AUG.									
06...	.93	.43	.50	.94	4.2	.00	.01	.03	.01
SEP.									
12...	.71	.22	.49	.71	3.1	.03	.01	.02	.01
435527087562702 - CEDAR L. NR KIEL, WIS.-SITE 2-HYPOLIMNION (LAT 43 55 27 LONG 087 56 27.02)									
JULY, 1974									
09...	.66	.10	.56	.66	2.9	.00	.01	.01	.00
AUG.									
06...	1.2	.74	.46	1.2	5.4	.03	.01	.04	.01
SEP.									
12...	.70	.21	.49	.70	3.1	.00	.01	.01	.00
435534087561101 - CEDAR L. NR KIEL, WIS.-SITE 1-EPILIMNION (LAT 43 55 34 LONG 087 56 11.01)									
JULY, 1974									
09...	.72	.18	.54	.72	3.2	.00	.01	.01	.00
AUG.									
06...	.87	.22	.65	.88	3.9	.00	.01	.02	.01
SEP.									
12...	.67	.14	.53	.67	3.0	.00	.03	.03	.01
435534087561102 - CEDAR L. NR KIEL, WIS.-SITE 1-HYPOLIMNION (LAT 43 55 34 LONG 087 56 11.02)									
JULY, 1974									
09...	.66	.13	.53	.66	2.9	.00	.01	.00	.00
AUG.									
06...	.80	.24	.56	.81	3.6	.00	.01	.01	.01
SEP.									
12...	.63	.12	.51	.63	2.8	.31	.15	.11	.08

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
435527087562701 - CEDAR L. NR KIEL, WIS.-SITE 2-EPILIMNION (LAT 43 55 27 LONG 087 56 27.01)									
JULY, 1974									
09...	.00	.01	.00	236	8.5	27.0	.9	37000	--
AUG.									
06...	.00	.01	.01	200	8.4	23.0	1.2	42000	15
SEP.									
12...	.01	.00	.01	280	8.2	21.0	1.8	160000	--
435527087562702 - CEDAR L. NR KIEL, WIS.-SITE 2-HYPOLIMNION (LAT 43 55 27 LONG 087 56 27.02)									
JULY, 1974									
09...	.00	.01	.00	260	8.5	21.0	.9	--	--
AUG.									
06...	.01	.01	.00	205	8.4	20.5	1.2	--	18
SEP.									
12...	.00	.01	.00	280	8.4	19.5	1.2	--	8.4
435534087561101 - CEDAR L. NR KIEL, WIS.-SITE 1-EPILIMNION (LAT 43 55 34 LONG 087 56 11.01)									
JULY, 1974									
09...	.00	.01	.00	254	8.6	26.5	.7	21000	--
AUG.									
06...	.00	.00	.00	200	8.4	23.0	1.2	49000	12
SEP.									
12...	.00	.01	.02	290	8.5	21.0	1.0	110000	.0
435534087561102 - CEDAR L. NR KIEL, WIS.-SITE 1-HYPOLIMNION (LAT 43 55 34 LONG 087 56 11.02)									
JULY, 1974									
09...	.00	.01	.00	263	8.3	19.5	1.4	--	--
AUG.									
06...	.00	.00	.00	200	8.4	22.5	1.1	--	20
SEP.									
12...	.10	.15	.11	285	8.2	16.0	1.8	--	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973												
15...	0900	20	14	50	0	35	18	1.8	1.0	165	0	135

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973									
15...	0900	20	0	0	20	0	0	3	0

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973												
16...	0930	38	12	280	70	37	18	1.9	1.4	158	0	130

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973									
16...	0930	38	2	3	10	0	1	6	0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
05400885 - TWO MILE CREEK NR. MEEHAN, WIS. (LAT 44 24 38 LONG 089 40 03.01)												
DEC., 1973												
07...	1300	--	16	240	40	15	5.3	2.4	.8	37	0	30
MAR., 1974												
20...	1340	.91	--	--	--	--	--	--	--	33	0	27
APR.												
16...	1330	4.1	--	10	--	--	--	--	1.5	31	0	25
MAY												
14...	1145	2.8	12	210	75	18	6.4	2.4	2.3	32	0	26
JUNE												
14...	1310	1.4	--	110	--	--	--	--	1.9	38	0	31
JULY												
15...	1429	.06	--	--	--	--	--	--	--	--	--	--
15...	1430	.06	15	90	33	13	4.6	2.3	.7	45	0	37
AUG.												
16...	1030	.00	--	400	--	--	--	--	.9	41	--	34
SEP.												
17...	1330	.00	--	1400	--	--	--	--	2.0	80	0	66

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
DEC., 1973									
07...	1300	--	0	--	10	0	--	--	0
MAY , 1974									
14...	1145	2.8	0	0	5	1	<10	10	0
JULY									
15...	1429	.06	--	8	--	--	<10	<10	--
15...	1430	.06	1	1	20	4	<10	<10	1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV., 1973											
15...	10	5.2	.2	3.9	--	--	.02	--	--	3.9	3.9

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973								
15...	0	<5	2	30	.0	.0	0	11

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
NOV., 1973											
16...	19	7.6	.3	3.6	--	--	.03	--	--	3.6	3.6

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973								
16...	1	5	1	<10	.1	.0	0	9

05400885 - TWO MILE CREEK NR. MEEHAN, WIS. (LAT 44 24 38 LONG 089 40 03.01)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
DEC., 1973											
07...	12	6.8	.2	2.4	2.4	11	.01	.01	.03	2.4	2.4
MAR., 1974											
20...	--	--	--	2.4	--	--	.01	--	--	2.4	--
APR.											
16...	--	--	--	5.1	--	--	.01	--	--	5.1	--
MAY											
14...	14	14	.3	4.4	4.5	20	.01	.01	.03	4.4	4.5
JUNE											
14...	--	--	--	3.8	--	--	.03	--	--	3.8	--
JULY											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	9.2	4.3	.4	.26	--	--	.01	.02	.07	.27	.34
AUG.											
16...	--	--	--	.05	--	--	.01	--	--	.06	--
SEP.											
17...	--	--	--	.01	--	--	.00	--	--	.01	--

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
DEC., 1973								
07...	0	--	0	--	.0	--	10	--
MAY , 1974								
14...	1	<50	5	<100	.3	.0	3	10
JULY								
15...	--	<10	--	30	--	.1	--	90
15...	0	<10	13	<10	.0	.0	40	<10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
NOV., 1973											
15...	.1	.02	--	1.1	--	.62	--	.64	--	--	4.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
NOV., 1973											
15...	0900	20	.00	.0	.0	0	.00	2.5	.00	5.3	.00

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
NOV., 1973											
16...	.1	.13	--	1.2	--	.58	--	.71	--	--	4.3

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)
NOV., 1973										
16...	0930	38	.00	.0	.00	.00	.00	.00	.00	.00

05400885 - TWO MILE CREEK NR. MEEHAN, WIS. (LAT 44 24 38 LONG 089 40 03.01)

DATE	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
DEC., 1973											
07...	3.0	.01	.01	300	.01	.23	--	.24	--	--	2.6
MAR., 1974											
20...	--	.01	--	--	--	.25	--	.26	--	--	2.7
APR.											
16...	--	.05	--	--	--	.18	--	.23	--	--	5.3
MAY											
14...	7.0	.04	.04	--	.05	.17	.03	.21	.07	870	4.6
JUNE											
14...	--	.00	--	--	--	.32	--	.32	--	--	4.1
JULY											
15...	.0	--	--	--	--	--	--	--	--	480	--
15...	.0	.13	.08	--	.10	.43	.28	.56	.36	800	.83
AUG.											
16...	--	.06	--	--	--	.51	--	.57	--	--	.63
SEP.											
17...	--	.55	--	--	--	.75	--	1.3	--	--	1.3

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
MAY , 1974												
14...	1145	2.8	.00	.0	.0	0	<.01	1.7	.01	2.0	.02	2.0
JULY												
15...	1430	.06	.00	--	.0	--	.00	--	.00	--	.00	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV., 1973											
15...	20	612	.05	.04	--	.04	36	.12	184	.25	9.94

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)
NOV., 1973											
15...	8.1	.00	.0	.00	1.0	.00	.0	.0	.00	.0	.00

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV., 1973											
16...	19	733	.39	.02	--	.03	16	.09	191	.26	19.8

DATE	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV., 1973										
16...	.00	.00	.00	.00	.00	.00	.0	.00	.00	.00

05400885 - TWO MILE CREEK NR. MEEHAN, WIS. (LAT 44 24 38 LONG 089 40 03.01)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
DEC., 1973											
07...	12	110	.02	.02	.04	.05	39	.15	88	.12	--
MAR., 1974											
20...	12	--	.00	--	--	--	--	--	--	--	--
APR.											
16...	24	--	.02	--	--	--	--	--	--	--	--
MAY											
14...	20	--	.03	.00	.02	.00	79	.00	105	.14	.82
JUNE											
14...	18	--	.00	--	--	--	--	--	--	--	--
JULY											
15...	--	--	--	--	--	--	57	--	--	--	--
15...	3.7	--	.02	.00	.00	.00	100	.00	73	.10	.01
AUG.											
16...	2.8	--	.05	--	--	--	--	--	--	--	--
SEP.											
17...	5.8	--	.07	--	--	--	--	--	--	--	--

DATE	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
MAY , 1974												
14...	.01	.0	.00	.1	.00	.0	.00	.0	.00	.0	.00	.0
JULY												
15...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973											
15...	160	26	2	.1	319	7.8	5.0	4.2	4.0	4.7	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973										
15...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973										
15...	.0	0	0	.0	.00	0	.00	0	.00	0

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973											
16...	170	37	2	.1	333	7.9	3.5	3.2	S.S	7.6	.2

05400885 - TWO MILE CREEK NR. MEEHAN, WIS. (LAT 44 24 38 LONG 089 40 03.01)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
DEC., 1973											
07...	59	29	8	.1	131	6.9	2.S	7.5	1.8	7.1	2.1
MAR., 1974											
20...	--	--	--	--	133	6.8	4.0	8.4	--	--	--
APR.											
16...	--	--	--	--	174	6.8	11.0	7.9	--	--	--
MAY											
14...	71	45	7	.1	180	6.8	8.5	8.1	--	4.0	.0
JUNE											
14...	--	--	--	--	195	7.0	15.0	6.1	--	--	--
JULY											
15...	--	--	--	--	--	--	28.5	--	--	5.S	6.8
15...	51	15	9	.1	145	7.2	28.5	4.5	2.5	6.6	1.8
AUG.											
16...	--	--	--	--	95	8.5	22.5	.2	--	--	--
SEP.											
17...	--	--	--	--	150	6.8	20.0	20	--	--	--

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)
MAY , 1974											
14...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0
JULY											
15...	.00	--	.00	--	.00	--	.00	--	.00	--	.0

DATE	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-O (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM OE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
MAY , 1974											
14...	0	0	0	.00	.0	.00	0	.00	0	.00	0
JULY											
15...	--	0	--	.00	--	.00	0	.00	0	.00	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400910 - FIVE MILE CREEK NR. KELLNER, WIS. (LAT 44 20 08 LONG 089 43 29.01)

	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973												
26...	1030	.06	14	890	170	14	5.9	1.9	.7	64	0	53
MAR., 1974												
20...	1300	.11	--	--	--	--	--	--	--	45	0	37
APR.												
16...	1230	6.5	--	110	--	--	--	--	1.0	14	0	11
MAY												
13...	1030	2.4	8.1	970	38	--	--	1.5	.4	26	0	21
JUNE												
14...	1200	1.2	--	6200	--	--	--	--	1.2	74	0	61
JULY												
15...	0930	--	16	1300	920	27	10	2.2	.7	129	0	106
AUG.												
16...	1230	.10	--	1000	--	--	--	--	1.0	61	0	50
SEP.												
17...	1200	.01	--	1200	--	--	--	--	1.4	125	0	103

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973									
26...	1030	.06	1	--	30	0	--	--	0
MAY , 1974									
13...	1030	2.4	0	2	50	1	<10	10	0
JULY									
15...	0930	--	1	--	30	2	--	--	0

05401013 - N. BR. TENMILE CREEK NR. BANCROFT, WIS. (LAT 44 17 24 LONG 089 30 31)

	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
DEC., 1973												
07...	1101	1.3	11	--	--	42	21	2.0	.7	140	0	115
MAY , 1974												
14...	1445	4.1	6.6	110	25	28	17	1.6	1.7	109	0	89
JULY												
16...	0900	.67	11	0	25	45	22	2.0	.5	145	0	119

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED BORON (B) (UG/L)
DEC., 1973			
07...	1101	1.3	8
MAY , 1974			
14...	1445	4.1	10
JULY			
16...	0900	.67	20

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400910 - FIVE MILE CREEK NR. KELLNER, WIS. (LAT 44 20 08 LONG 089 43 29.01)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV., 1973											
26...	12	2.4	.2	.64	.61	2.7	.01	.01	.03	.65	.62
MAR., 1974											
20...	--	--	--	1.4	--	--	.01	--	--	1.4	--
APR.											
16...	--	--	--	.49	--	--	.01	--	--	.50	--
MAY											
13...	18	1.2	.2	.08	.08	.40	.01	.00	.00	.09	.08
JUNE											
14...	--	--	--	.15	--	--	.01	--	--	.16	--
JULY											
15...	7.3	2.5	.5	.09	.11	.50	.01	.00	.00	.10	.09
AUG.											
16...	--	--	--	.45	--	--	.02	--	--	.47	--
SEP.											
17...	--	--	--	.09	--	--	.00	--	--	.09	--

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973								
26...	0	--	0	--	.1	--	20	--
MAY , 1974								
13...	2	<50	9	<100	.2	.0	--	10
JULY								
15...	2	--	7	--	.7	--	20	--

05401013 - N. BR. TENMILE CREEK NR. BANCROFT, WIS. (LAT 44 17 24 LONG 089 30 31)

	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
DEC., 1973											
07...	11	16	.1	11	12	53	.01	.01	.03	11	12
MAY , 1974											
14...	12	14	.3	7.2	--	--	.02	--	--	7.2	7.1
JULY											
16...	12	21	.3	12	--	--	.04	--	--	12	12

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
WISCONSIN RIVER BASIN--Continued											
05400910 - FIVE MILE CREEK NR. KELLNER, WIS. (LAT 44 20 08 LONG 089 43 29.01)											
NOV., 1973											
26...	--	.22	.24	--	.31	.50	.46	.72	.70	--	1.4
MAR., 1974											
20...	--	.28	--	--	--	.53	--	.81	--	--	2.2
APR.											
16...	--	.03	--	--	--	.48	--	.51	--	--	1.0
MAY											
13...	.5	.02	.02	--	.03	.58	.62	.60	.64	1900	.69
JUNE											
14...	--	.40	--	--	--	.31	--	.71	--	--	.87
JULY											
15...	--	.47	.47	--	.61	.63	.51	1.1	.98	--	1.2
AUG.											
16...	--	.27	--	--	--	.61	--	.88	--	--	1.4
SEP.											
17...	--	.25	--	--	--	.71	--	.96	--	--	1.1

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
MAY , 1974												
13...	1030	2.4	.00	.0	.0	0	.00	.0	.00	.3	.00	.4
AUG.												
16...	1230	.10	.00	--	.0	--	.00	--	.00	--	.00	--

DATE	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTDM DEP. (MG/KG)	DIS-SOLVED AMMONIA (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
05401013 - N. BR. TENMILE CREEK NR. BANCROFT, WIS. (LAT 44 17 24 LONG 089 30 31)											
DEC., 1973											
07...	--	.11	.00	--	.00	.20	.30	.31	.30	--	11
MAY , 1974											
14...	--	.00	--	--	--	1.2	--	1.2	--	--	8.4
JULY											
16...	--	.00	--	--	--	.00	--	.00	--	--	12

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400910 - FIVE MILE CREEK NR. KELLNER, WIS. (LAT 44 20 08 LONG 089 43 29.01)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV., 1973											
26...	6.1	--	.00	--	.02	.04	--	.12	86	.12	.02
MAR., 1974											
20...	9.8	--	.00	--	--	--	--	--	--	--	--
APR.											
16...	4.5	--	.05	--	--	--	--	--	--	--	--
MAY											
13...	3.1	--	.02	.04	.01	.04	130	.12	--	--	--
JUNE											
14...	3.9	--	.09	--	--	--	--	--	--	--	--
JULY											
15...	5.3	--	.04	.04	.00	.00	--	.00	132	.18	--
AUG.											
16...	6.0	--	.05	--	--	--	--	--	--	--	--
SEP.											
17...	4.6	--	.08	--	--	--	--	--	--	--	--

DATE	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
MAY, 1974												
13...	.01	.0	.00	.2	.00	.0	.00	.0	.00	.0	.00	.0
AUG.												
16...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--

05401013 - N. BR. TENMILE CREEK NR. BANCROFT, WIS. (LAT 44 17 24 LONG 089 30 31)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
DEC., 1973											
07...	50	--	.11	.09	.10	.11	--	.34	226	.31	.81
MAY, 1974											
14...	37	--	.03	--	.02	.02	--	.06	167	.23	1.88
JULY											
16...	53	--	.06	--	.01	.03	--	.09	239	.33	.44

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05400910 - FIVE MILE CREEK NR. KELLNER, WIS. (LAT 44 20 08 LONG 089 43 29.01)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973											
26...	59	7	6	.1	130	7.0	4.0	10	5.4	--	--
MAR., 1974											
20...	--	--	--	--	127	6.7	.5	14	--	--	--
APR.											
16...	--	--	--	--	80	6.8	7.5	3.6	--	--	--
MAY											
13...	--	--	0	--	95	6.9	6.0	5.2	23	5.0	1.9
JUNE											
14...	--	--	--	--	150	7.2	15.5	7.5	--	--	--
JULY											
15...	110	3	4	.1	230	7.3	16.0	10	9.9	--	--
AUG.											
16...	--	--	--	--	112	6.9	19.0	12	--	--	--
SEP.											
17...	--	--	--	--	190	6.6	17.0	50	--	--	--

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)
MAY , 1974											
13...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0
AUG.											
16...	.00	--	.00	--	.00	--	.00	--	.00	--	.0

DATE	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
MAY , 1974											
13...	0	0	0	.00	.0	.00	0	.00	0	.00	0
AUG.											
16...	--	0	--	.00	--	--	--	--	--	--	--

05401013 - N. BR. TENMILE CREEK NR. BANCROFT, WIS. (LAT 44 17 24 LONG 089 30 31)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
DEC., 1973											
07...	190	77	2	.1	389	8.0	2.5	2.2	2.0	--	--
MAY , 1974											
14...	140	51	2	.1	300	7.4	13.0	6.9	9.8	--	--
JULY											
16...	200	84	2	.1	420	7.8	16.0	3.7	3.6	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401020 - TENMILE CREEK DITCH 5 NR. BANCROFT, WIS. (LAT 44 18 08 LONG 089 32 59.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973												
15...	1230	8.4	11	120	20	33	16	1.8	1.4	133	0	109
FEB., 1974												
12...	1030	6.1	--	180	--	--	--	--	1.4	148	0	121
MAR.												
20...	1115	9.2	--	--	--	--	--	--	--	143	0	117
APR.												
16...	1045	18	--	70	--	--	--	--	1.9	133	0	109
MAY												
15...	1130	15	8.7	160	25	32	16	1.7	1.4	137	0	112
JUNE												
14...	1030	10	--	110	--	--	--	--	1.4	150	0	123
JULY												
16...	1140	5.3	11	80	17	36	17	1.8	1.6	151	0	124
AUG.												
16...	1330	5.3	--	10	--	--	--	--	2.2	149	0	122
SEP.												
17...	1140	--	--	130	--	--	--	--	1.9	149	0	122

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973									
15...	1230	8.4	2	2	5	0	1	1	0
MAY , 1974									
15...	1130	15	0	0	10	2	<10	<10	0
JULY									
16...	1140	5.3	1	0	5	3	<10	<10	0

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973											
15... 1600	--	11	570	140	29	12	2.1	.8	130	0	107

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973								
15...	1600	0	0	10	0	1	0	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401020 - TENMILE CREEK DITCH 5 NR. BANCROFT, WIS. (LAT 44 18 08 LONG 089 32 59.01)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SDLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV., 1973											
15...	13	9.6	.1	5.1	--	--	.04	--	--	5.1	4.5
FEB., 1974											
12...	--	--	--	4.7	--	--	.03	--	--	4.7	--
MAR.											
20...	--	--	--	5.8	--	--	.02	--	--	5.8	--
APR.											
16...	--	--	--	4.2	--	--	.02	--	--	4.2	--
MAY											
15...	11	8.7	.3	4.6	5.1	22	.03	.03	.10	4.6	5.1
JUNE											
14...	--	--	--	5.4	--	--	.12	--	--	5.5	--
JULY											
16...	10	8.9	.3	4.8	--	--	.06	.05	.16	4.9	5.0
AUG.											
16...	--	--	--	4.8	--	--	.06	--	--	4.9	--
SEP.											
17...	--	--	--	5.4	--	--	.05	--	--	5.4	--

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973								
15...	2	5	1	<10	.0	.0	0	4
MAY , 1974								
15...	1	<50	8	<100	.2	.0	3	10
JULY								
16...	2	<10	5	<10	.0	.0	20	<10

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
NOV., 1973											
15...	11	3.4	.2	1.6	--	--	.02	--	--	1.6	1.6

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973								
15...	0	5	0	<10	.4	.0	30	3

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401020 - TENMILE CREEK DITCH 5 NR. BANCROFT, WIS. (LAT 44 18 08 LONG 089 32 59.01)

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
NOV., 1973											
15...	.4	.22	--	.3	--	.69	--	.91	--	--	6.0
FEB., 1974											
12...	--	.02	--	--	--	.15	--	.17	--	--	4.9
MAR.											
20...	--	.10	--	--	--	.30	--	.40	--	--	6.2
APR.											
16...	--	.12	--	--	--	.58	--	.70	--	--	4.9
MAY											
15...	15	.13	.21	--	.27	.74	.55	.87	.76	230	5.5
JUNE											
14...	--	.09	--	--	--	.72	--	.81	--	--	6.3
JULY											
16...	.0	.00	.31	--	.40	1.1	.30	1.1	.61	260	6.0
AUG.											
16...	--	.25	--	--	--	.64	--	.89	--	--	5.8
SEP.											
17...	--	.30	--	--	--	.38	--	.68	--	--	6.1

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
NOV., 1973												
15...	1230	8.4	.00	.0	.0	0	.00	3.2	.00	1.2	.00	.0
MAY , 1974												
15...	1130	15	.00	.0	.0	0	.00	1.3	.00	.3	.00	.5
AUG.												
16...	1330	5.3	.00	--	.0	--	.00	--	.00	--	.00	--

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

DATE	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
NOV., 1973											
15...	.1	.01	--	3.3	--	.44	--	.45	--	--	2.1

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)
NOV., 1973										
15...	1600	.00	.0	.0	0	.00	.0	.00	.0	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401020 - TENMILE CREEK DITCH 5 NR. BANCROFT, WIS. (LAT 44 18 08 LONG 089 32 59.01)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV., 1973											
15...	27	802	.16	.04	--	.04	18	.12	172	.23	3.90
FEB., 1974											
12...	22	--	.03	--	--	--	--	--	--	--	--
MAR.											
20...	27	--	.03	--	--	--	--	--	--	--	--
APR.											
16...	22	--	.03	--	--	--	--	--	--	--	--
MAY											
15...	24	--	.05	.02	.01	.01	140	.03	171	.23	7.29
JUNE											
14...	28	--	.02	--	--	--	--	--	--	--	--
JULY											
16...	27	--	.07	.05	.00	.02	73	.06	183	.25	2.66
AUG.											
16...	26	--	.09	--	--	--	--	--	--	--	--
SEP.											
17...	27	--	.05	--	--	--	--	--	--	--	--

DATE	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973												
15...	.00	.0	.00	.2	.00	.0	--	.0	.00	.0	.00	.0
MAY , 1974												
15...	.00	.0	.00	.1	.00	.0	.00	.0	.00	.0	.00	.0
AUG.												
16...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV., 1973											
15...	9.1	110	.04	.03	--	.02	24	.06	141	.19	--

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973										
15...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401020 - TENMILE CREEK DITCH 5 NR. BANCROFT, WIS. (LAT 44 18 08 LONG 089 32 59.01)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973											
15...	150	39	3	.1	300	7.7	4.0	4.2	5.7	.0	.1
FEB., 1974											
12...	--	--	--	--	--	7.9	2.0	3.0	--	--	--
MAR.											
20...	--	--	--	--	317	8.0	4.0	2.3	--	--	--
APR.											
16...	--	--	--	--	271	7.6	8.0	5.3	--	--	--
MAY											
15...	150	33	2	.1	290	7.5	9.0	6.9	4.9	4.7	.3
JUNE											
14...	--	--	--	--	360	7.8	12.0	3.8	--	--	--
JULY											
16...	160	36	2	.1	320	8.0	16.0	2.4	3.5	1.1	.2
AUG.											
16...	--	--	--	--	290	7.6	17.5	6.0	--	--	--
SEP.											
17...	--	--	--	--	275	7.0	14.0	24	--	--	--

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)
NOV., 1973											
15...	.00	.0	.00	.0	.00	.0	--	.0	.00	.0	.0
MAY , 1974											
15...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0
AUG.											
16...	.00	--	.00	--	.00	--	.00	--	.00	--	.0

DATE	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION (UG/L)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973											
15...	0	--	0	--	.0	.00	0	.00	0	.00	0
MAY , 1974											
15...	0	0	0	.00	.0	.00	0	.00	0	.00	0
AUG.											
16...	--	0	--	.00	--	.00	--	.00	--	.00	--

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973											
15...	120	15	4	.1	248	7.8	4.5	3.3	4.0	2.3	.0

DATE	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973									
15...	.00	.0	.00	.0	.00	.0	.00	.0	.0

DATE	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV., 1973									
15...	.00	.0	.0	0	0	.0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973 14...	1330	11	12	50	20	36	18	1.7	.6	171	0	140

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973 14...	1330	11	3	0	7	0	1	3	0

05401535 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) NMG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973 16...	1450	66	9.9	290	70	24	11	1.8	.6	114	0	94

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)
NOV., 1973 16...	1450	66	2	1	40	0	1	1	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
NOV., 1973 14...	12	4.7	.1	3.5	--	--	.01	--	--	3.5	3.4

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973 14...	1	5	1	10	2.0	.0	0	5

05401535 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DI5-SOLVED NITRATE PLUS NITRATE (N) (MG/L)
NOV., 1973 16...	9.9	3.3	.1	1.2	--	--	.01	--	--	1.2	1.1

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV., 1973 16...	1	5	1	10	.0	.0	0	4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
NOV., 1973 14...	.1	.01	--	51	--	.19	--	.20	--	--	3.7

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)
NOV., 1973 14...	1330	11	.00	.0	.0	0	.00	.0	.00	.0	.00

05401535 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL AMMONIA NITRO-GEN IN BOTTOM DEP. (MG/KG)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
NOV., 1973 16...	.1	.04	--	1.8	--	.37	--	.41	--	--	1.6

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)
NOV., 1973 16...	1450	66	.00	.0	.0	0	.00	.0	.00	.0	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
NOV., 1973 14...	16	7SS	.05	.04	--	.04	35	.12	185	.25	5.49

DATE	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENORIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)
NOV., 1973 14...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0	.00

05401530 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
NOV., 1973 16...	7.1	1170	.05	.03	--	.02	30	.06	122	.17	21.7

DATE	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)
NOV., 1973 16...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973 14...	160	24	2	.1	326	8.0	8.0	2.7	6.2	8.1	.4

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973 14...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973 14...	.0	0	0	.0	.00	0	.00	0	.00	0

05401535 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
NOV., 1973 16...	110	12	4	.1	211	7.7	8.0	3.6	4.9	4.7	.2

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION (UG/L)	PARATHION IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973 16...	.0	.00	.0	.00	.0	.00	.0	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV., 1973 16...	.0	0	0	.0	.00	0	.00	0	.00	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406710 - PINE RIVER AT SITE 36A AT YUBA, WIS. (LAT 43 32 22 LONG 090 25 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
16...	0930	56	132	0	108	.93	.94	4.2	.01	.00	.00
JUNE											
03...	1530	19	229	10	204	.36	.36	1.6	.01	.01	.03
SEP.											
09...	1015	10	260	0	213	.40	.43	1.9	.01	.01	.03

05406714 - PINE RIVER AT SITE 36B NR. HUB CITY, WIS. (LAT 43 29 24 LONG 090 22 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
16...	1110	98	138	0	113	.92	.94	4.2	.01	.00	.00
JUNE											
03...	1730	32	235	0	193	.31	.31	1.4	.01	.01	.03
SEP.											
09...	1145	25	242	1	200	.20	.24	1.1	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1730	32	.00	.0	.0	0	.00	.0	.00	.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
05406715 - MALANCTHON CR. AT SITE 21A NR. HUB CITY, WIS. (LAT 43 33 12 LONG 090 21 17.01)											
MAY , 1974											
14...	1230	2.4	<47	0	203	1.5	1.5	6.6	.01	.00	.00
JUNE											
03...	1030	1.5	284	0	233	2.0	2.0	8.9	.01	.00	.00
SEP.											
09...	1300	1.2	284	3	238	2.1	2.0	8.9	.01	.01	.03
05406716 - MALANCTHON CR. AT SITE 21B NR. HUB CITY, WIS. (LAT 43 32 08 LONG 090 21 15.01)											
MAY , 1974											
14...	1030	8.8	193	0	158	.93	.91	4.0	.01	.01	.03
JUNE											
03...	1300	4.0	277	0	227	1.5	1.4	6.2	.01	.01	.03
SEP.											
09...	1400	3.0	273	9	239	1.4	1.5	6.6	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1300	4.0	.00	.0	.0	0	.00	.0	.00	.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406710 - PINE RIVER AT SITE 36A AT YUBA, WIS. (LAT 43 32 22 LONG 090 25 50)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
16...	.94	.94	.5	.01	.05	.06	.30	.34	.31	.39	330
JUNE											
03...	.37	.37	.0	.02	.02	.03	.17	.24	.19	.26	170
SEP.											
09...	.41	.44	.5	.00	.02	.03	.29	.26	.29	.28	520

05406714 - PINE RIVER AT SITE 36B NR. HUB CITY, WIS. (LAT 43 29 24 LONG 090 22 00)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
16...	.93	.94	.0	.06	.08	.10	.27	.35	.33	.43	99
JUNE											
03...	.32	.32	3.0	.04	.00	.00	.22	.23	.26	.23	160
SEP.											
09...	.21	.25	.5	.00	.00	.00	.19	.20	.19	.20	2000

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406715 - MALANCTHON CR. AT SITE 21A NR. HUB CITY, WIS. (LAT 43 33 12 LONG 090 21 17.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	1.5	1.5	4.0	.00	.03	.04	.19	.16	.19	.19	1300
JUNE											
03...	2.0	2.0	1.0	.02	.02	.03	.40	.23	.42	.25	1100
SEP.											
09...	2.1	2.1	.5	.00	.00	.00	.16	.14	.16	.14	1350

05406716 - MALANCTHON CR. AT SITE 21B NR. HUB CITY, WIS. (LAT 43 32 08 LONG 090 21 15.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	.94	.92	5.5	.04	.08	.10	.46	.46	.50	.54	580
JUNE											
03...	1.5	1.4	.0	.01	.02	.03	.10	.17	.11	.19	1700
SEP.											
09...	1.4	1.5	1.0	.00	.00	.00	.15	.18	.15	.18	27

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPDXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406710 - PINE RIVER AT SITE 36A AT YUBA, WIS. (LAT 43 32 22 LONG 090 25 50)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
16...	1.3	5.5	.10	.13	148	.20	22.4	253	7.8	5.0	30
JUNE											
03...	.56	2.5	.02	.01	224	.30	11.5	348	8.6	18.5	7
SEP.											
09...	.70	3.1	.05	.04	218	.30	5.89	396	--	16.5	1

05406714 - PINE RIVER AT SITE 36B NR. HUB CITY, WIS. (LAT 43 29 24 LONG 090 22 00)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
16...	1.3	5.6	.17	.09	154	.21	40.7	264	7.7	7.0	60
JUNE											
03...	.58	2.6	.03	.01	202	.27	17.4	347	8.2	18.0	7
SEP.											
09...	.40	1.8	.05	.04	230	.31	15.5	410	--	17.5	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

05406715 - MALANCTHON CR. AT SITE 21A NR. HUB CITY, WIS. (LAT 43 33 12 LONG 090 21 17.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
14...	1.7	7.5	.09	.07	220	.30	1.43	344	8.1	10.0	7
JUNE											
03...	2.4	11	.01	.01	266	.36	1.08	390	8.0	10.0	2
SEP.											
09...	2.3	10	.05	.03	274	.37	.89	454	--	14.5	5

05406716 - MALANCTHON CR. AT SITE 21B NR. HUB CITY, WIS. (LAT 43 32 08 LONG 090 21 15.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
14...	1.4	6.4	.13	.10	182	.25	4.32	277	7.9	7.5	100
JUNE											
03...	1.6	7.1	.02	.02	257	.35	2.77	384	8.2	11.0	0
SEP.											
09...	1.6	6.9	.04	.04	246	.33	1.99	450	--	15.0	3

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406710 - PINE RIVER AT SITE 36A AT YUBA, WIS. (LAT 43 32 22 LONG 090 25 50)										
APR., 1974										
16...	20	12.5	3.3	6.4	--	--	--	--	--	B100
JUNE										
03...	3	14.0	1.0	4.9	--	--	--	--	670	98
SEP.										
09...	2	11.2	--	1.8	--	--	--	--	970	350
05406714 - PINE RIVER AT SITE 36B NR. HUB CITY, WIS. (LAT 43 29 24 LONG 090 22 00)										
APR., 1974										
16...	30	11.3	4.4	--	--	--	--	--	--	8700
JUNE										
03...	4	11.0	2.4	--	--	--	--	--	B140	150
SEP.										
09...	2	11.2	--	17	--	--	--	--	670	200
05406715 - MALANCTHON CR. AT SITE 21A NR. HUB CITY, WIS. (LAT 43 33 12 LONG 090 21 17.01)										
MAY , 1974										
14...	7	10.5	3.1	--	--	--	--	--	1400	5500
JUNE										
03...	6	10.6	4.5	--	--	--	--	--	1500	430
SEP.										
09...	3	9.7	--	9.0	--	--	--	--	1200	260
05406716 - MALANCTHON CR. AT SITE 21B NR. HUB CITY, WIS. (LAT 43 32 08 LONG 090 21 15.01)										
MAY , 1974										
14...	30	10.6	3.9	--	--	--	--	--	6300	B10000
JUNE										
03...	4	10.4	2.8	4.2	--	--	--	--	100	290
SEP.										
09...	1	10.4	--	7.6	--	--	--	--	560	900

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406728 - W. BR. PINE R. AT SITE 14A4 NR BLOOM CITY, WIS. (LAT 43 31 20 LONG 090 29 10.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY , 1974											
15...	0830	9.6	295	0	242	1.6	1.6	7.1	.00	.00	.00
JUNE											
04...	1300	6.9	305	0	250	1.3	1.2	5.3	.02	.01	.03
SEP.											
09...	1530	5.6	283	12	252	1.1	1.1	4.9	.01	.01	.03

05406730 - W. BR. PINE R. AT SITE 14B NR. BLOOM CITY, WIS. (LAT 43 30 22 LONG 090 28 24.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY , 1974											
15...	1000	12	287	0	235	1.4	1.3	5.7	.01	.01	.03
JUNE											
04...	1130	9.0	308	0	253	.98	.99	4.4	.02	.01	.03
SEP.											
09...	1645	8.2	298	11	263	.88	.94	4.2	.01	.00	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
04...	1130	9.0	.00	.0	.0	0	.00	.0	.00	.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
05406735 - W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,WIS. (LAT 43 29 10 LONG 090 29 24.01)											
MAY , 1974											
14...	1430	5.6	186	0	153	.99	.99	4.4	.01	.01	.03
JUNE											
04...	0930	2.3	288	0	236	1.5	1.5	6.6	.01	.01	.03
SEP.											
10...	0945	2.5	299	0	245	1.5	1.6	7.1	.01	.01	.03
05406737 - W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,WIS. (LAT 43 28 57 LONG 090 29 30.01)											
MAY , 1974											
14...	1600	2.9	262	0	215	.92	.92	4.1	.01	.00	.00
JUNE											
04...	1030	1.6	308	0	253	.99	.99	4.4	.01	.01	.03
SEP.											
10...	1045	1.4	325	0	267	1.3	1.3	5.8	.00	.01	.03

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406728 - W. BR. PINE R. AT SITE 14A4 NR BLOOM CITY, WIS. (LAT 43 31 20 LONG 090 29 10.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
15...	1.6	1.6	2.0	.00	.01	.01	.19	.12	.19	.13	210
JUNE											
04...	1.3	1.2	10	.04	.03	.04	.18	.18	.22	.21	520
SEP.											
09...	1.1	1.1	.5	.00	.00	.00	.29	.22	.29	.22	1100

05406730 - W. BR. PINE R. AT SITE 14B NR. BLOOM CITY, WIS. (LAT 43 30 22 LONG 090 28 24.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
15...	1.4	1.3	4.5	.00	.02	.03	.21	.19	.21	.21	120
JUNE											
04...	1.0	1.0	.5	.04	.02	.03	.37	.17	.41	.19	220
SEP.											
09...	.89	.94	.0	.00	.00	.00	.31	.19	.31	.19	220

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
04...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406735 - W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,WIS. (LAT 43 29 10 LONG 090 29 24.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	1.0	1.0	1.0	.01	.02	.03	.32	.30	.33	.32	1600
JUNE											
04...	1.5	1.5	.0	.00	.01	.01	.07	.05	.07	.06	200
SEP.											
10...	1.5	1.6	.5	.00	.00	.00	.26	.22	.26	.22	180

05406737 - W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,WIS. (LAT 43 28 57 LONG 090 29 30.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	.93	.92	3.0	.00	.00	.00	.30	.27	.30	.27	110
JUNE											
04...	1.0	1.0	.5	.00	.00	.00	.15	.07	.15	.07	230
SEP.											
10...	1.3	1.3	3.5	.00	.00	.00	.15	.19	.15	.19	200

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406728 - W. BR. PINE R. AT SITE 14A4 NR BLOOM CITY, WIS. (LAT 43 31 20 LONG 090 29 10.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
15...	1.8	7.9	.04	.02	252	.34	6.53	394	8.1	8.0	6
JUNE											
04...	1.5	6.7	.02	.02	315	.43	5.87	424	8.3	18.5	5
SEP.											
09...	1.4	6.2	.05	.04	264	.36	4.03	470	--	18.5	5

05406730 - W. BR. PINE R. AT SITE 14B NR. BLOOM CITY, WIS. (LAT 43 30 22 LONG 090 28 24.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
15...	1.6	7.1	.04	.02	256	.35	8.29	402	8.2	8.5	5
JUNE											
04...	1.4	6.2	.05	.03	276	.38	6.71	432	8.3	18.0	5
SEP.											
09...	1.2	5.3	.06	.04	284	.39	6.29	459	--	20.0	4

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
04...	.00	.0	.0	0	0	0	.00	.00	.00

05406735 - W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,WIS. (LAT 43 29 10 LONG 090 29 24.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	1.3	5.9	.08	.07	170	.23	2.57	271	8.1	11.0	10
JUNE											
04...	1.6	7.0	.01	.01	250	.34	1.55	397	8.1	13.0	3
SEP.											
10...	1.8	7.8	.05	.03	262	.36	1.77	450	7.6	13.0	2

05406737 - W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,WIS. (LAT 43 28 57 LONG 090 29 30.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	1.2	5.4	.05	.02	220	.30	1.72	372	8.0	13.0	6
JUNE											
04...	1.2	5.1	.00	.01	266	.36	1.15	432	8.1	15.0	3
SEP.											
10...	1.5	6.4	.02	.02	304	.41	1.17	497	7.6	13.0	5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406728 - W. BR. PINE R. AT SITE 14A4 NR BLOOM CITY, WIS. (LAT 43 31 20 LONG 090 29 10.01)										
MAY , 1974										
15...	7	10.0	3.8	--	--	--	--	--	1500	700
JUNE										
04...	4	12.0	2.4	28	--	--	--	--	71	16
SEP.										
09...	3	12.4	--	2.2	--	--	--	--	B470	160
05406730 - W. BR. PINE R. AT SITE 14B NR. BLOOM CITY, WIS. (LAT 43 30 22 LONG 090 28 24.01)										
MAY , 1974										
15...	5	10.6	2.9	--	--	--	--	--	1600	420
JUNE										
04...	100	12.0	2.5	--	--	--	--	--	5000	45
SEP.										
09...	5	11.0	--	1.8	--	--	--	--	1700	460
05406735 - W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,WIS. (LAT 43 29 10 LONG 090 29 24.01)										
MAY , 1974										
14...	30	10.8	2.4	--	--	--	--	--	1100	4900
JUNE										
04...	2	11.5	3.7	2.0	--	--	--	--	230	140
SEP.										
10...	9	9.0	12	3.3	--	--	--	--	970	680
05406737 - W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,WIS. (LAT 43 28 57 LONG 090 29 30.01)										
MAY , 1974										
14...	10	10.4	4.2	--	--	--	--	--	240	260
JUNE										
04...	2	12.2	3.9	4.9	--	--	--	--	1100	16
SEP.										
10...	1	8.6	13	5.9	--	--	--	--	230	380

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406740 - W BR PINE R TRIB AT SITE 11B AT BLOOM CITY, WIS. (LAT 43 29 12 LONG 090 27 56.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
14...	1700	12	226	0	185	.96	.87	3.9	.01	.00	.00
JUNE											
04...	0930	5.3	297	0	244	.99	.99	4.4	.01	.01	.03
SEP.											
10...	0845	4.4	312	0	256	1.1	1.2	5.3	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
04...	0930	5.3	.00	.0	.0	0	.00	.0	.00	.0

05406752 - FANCY CR. AT SITE 33A NR. GILLINGHAM, WIS. (LAT 43 27 26 LONG 090 29 58.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
15...	0745	3.8	212	0	174	1.2	1.1	4.9	.01	.00	.00
JUNE											
03...	1010	1.9	296	0	243	1.8	1.7	7.5	.01	.00	.00
SEP.											
09...	1415	1.6	306	0	251	1.8	1.9	8.4	.01	.01	.03

05406754 - FANCY CR. AT SITE 33B NR. GILLINGHAM, WIS. (LAT 43 26 49 LONG 090 28 45.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
15...	0850	8.7	215	0	176	1.1	1.1	4.9	.00	.00	.00
JUNE											
03...	1115	4.1	240	0	197	1.4	1.4	6.2	.01	.01	.03
SEP.											
09...	1530	3.5	269	6	231	1.2	1.2	5.3	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1115	4.1	.00	.0	.0	0	.00	.0	.00	.0

05406757 - FANCY CR. TRIB. AT SITE 9A NR. GILLINGHAM, WIS. (LAT 43 26 14 LONG 090 29 48.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
14...	1630	1.6	256	0	210	1.1	.99	4.4	.01	.01	.03
JUNE											
03...	1200	.73	324	0	266	1.3	1.3	5.8	.01	.01	.03
SEP.											
09...	1055	.71	333	0	273	1.2	1.2	5.3	.01	.01	.03

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406740 - W BR PINE R TRIB AT SITE 11B AT BLOOM CITY, WIS. (LAT 43 29 12 LONG 090 27 56.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	.97	.87	11	.00	.01	.01	.37	.36	.37	.37	730
JUNE											
04...	1.0	1.0	1.0	.00	.00	.00	.09	.06	.09	.06	220
SEP.											
10...	1.1	1.2	.5	.00	.00	.00	.15	.26	.15	.26	450

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
04...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406752 - FANCY CR. AT SITE 33A NR. GILLINGHAM, WIS. (LAT 43 27 26 LONG 090 29 58.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
15...	1.2	1.1	4.5	.00	.00	.00	.19	.22	.19	.22	2700
JUNE											
03...	1.8	1.7	5.0	.00	.02	.03	.12	.13	.12	.15	36
SEP.											
09...	1.8	1.9	--	.00	.00	.00	.07	.10	.07	.10	--

05406754 - FANCY CR. AT SITE 33B NR. GILLINGHAM, WIS. (LAT 43 26 49 LONG 090 28 45.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
15...	1.1	1.1	.5	.00	.01	.01	.30	.17	.30	.18	340
JUNE											
03...	1.4	1.4	.5	.01	.02	.03	.19	.18	.20	.20	110
SEP.											
09...	1.2	1.2	.5	.00	.00	.00	.18	.25	.18	.25	300

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406757 - FANCY CR. TRIB. AT SITE 9A NR. GILLINGHAM, WIS. (LAT 43 26 14 LONG 090 29 48.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	1.1	1.0	2.0	.02	.03	.04	.30	.33	.32	.36	2200
JUNE											
03...	1.3	1.3	2.0	.02	.00	.00	.23	.15	.25	.15	940
SEP.											
09...	1.2	1.2	7.0	.00	.00	.00	.09	.33	.09	.33	140

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406740 - W BR PINE R TRIB AT SITE 11B AT BLOOM CITY, WIS. (LAT 43 29 12 LONG 090 27 56.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (ND3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
14...	1.3	5.9	.07	.06	194	.26	6.28	325	8.2	12.5	10
JUNE											
04...	1.1	4.8	.01	.03	265	.36	3.79	460	8.2	15.0	5
SEP.											
10...	1.3	5.5	.03	.02	282	.38	3.35	475	7.3	14.0	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
04...	.00	.0	.0	0	0	0	.00	.00	.00

05406752 - FANCY CR. AT SITE 33A NR. GILLINGHAM, WIS. (LAT 43 27 26 LONG 090 29 58.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
15...	1.4	6.2	.03	.01	194	.26	1.99	360	7.8	8.0	4
JUNE											
03...	1.9	8.5	.00	.01	279	.38	1.43	480	7.8	10.0	4
SEP.											
09...	1.9	8.3	.02	.03	280	.38	1.21	440	8.0	15.5	3

05406754 - FANCY CR. AT SITE 33B NR. GILLINGHAM, WIS. (LAT 43 26 49 LONG 090 28 45.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
15...	1.4	6.2	.00	.01	206	.28	4.84	380	7.9	8.5	6
JUNE											
03...	1.6	7.1	.02	.01	270	.37	2.99	360	8.0	11.5	6
SEP.											
09...	1.4	6.1	.04	.03	260	.35	2.46	440	8.4	19.0	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

05406757 - FANCY CR. TRIB. AT SITE 9A NR. GILLINGHAM, WIS. (LAT 43 26 14 LONG 090 29 48.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
14...	1.4	6.3	.06	.04	220	.30	.95	410	7.9	12.0	4
JUNE											
03...	1.6	6.9	.00	.01	281	.38	.55	500	8.0	12.5	4
SEP.											
09...	1.3	5.7	.03	.03	268	.36	.51	520	7.8	12.0	5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406740 - W BR PINE R TRIB AT SITE 11B AT BLOOM CITY, WIS. (LAT 43 29 12 LONG 090 27 56.01)										
MAY , 1974										
14...	20	10.5	2.3	--	--	--	--	--	930	2000
JUNE										
04...	2	12.1	3.0	4.7	--	--	--	--	360	270
SEP.										
10...	1	8.5	25	2.9	--	--	--	--	E430	580
05406752 - FANCY CR. AT SITE 33A NR. GILLINGHAM, WIS. (LAT 43 27 26 LONG 090 29 58.01)										
MAY , 1974										
15...	5	11.0	5.4	--	--	--	--	--	370	130
JUNE										
03...	1	10.0	7.5	34	--	--	--	--	670	330
SEP.										
09...	1	7.8	4.9	4.8	--	--	--	--	200	240
05406754 - FANCY CR. AT SITE 33B NR. GILLINGHAM, WIS. (LAT 43 26 49 LONG 090 28 45.01)										
MAY , 1974										
15...	7	11.4	4.3	--	--	--	--	--	1300	190
JUNE										
03...	3	10.7	3.8	67	--	--	--	--	2400	520
SEP.										
09...	2	8.6	1.8	7.8	--	--	--	--	870	230
05406757 - FANCY CR. TRIB. AT SITE 9A NR. GILLINGHAM, WIS. (LAT 43 26 14 LONG 090 29 48.01)										
MAY , 1974										
14...	7	9.9	5.2	--	--	--	--	--	560	930
JUNE										
03...	1	10.4	5.2	20	--	--	--	--	B510	1600
SEP.										
09...	2	9.6	8.4	8.0	--	--	--	--	87	300

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406758 - FANCY CR. TRIB AT SITE 9B1 NR. GILLINGHAM, WIS. (LAT 43 25 58 LONG 090 29 12.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (ND2) (MG/L)
MAY, 1974											
14...	1730	2.1	243	0	199	.67	.68	3.0	.01	.01	.03
JUNE											
03...	1245	1.6	314	0	258	.87	.86	3.8	.01	.01	.03
SEP.											
09...	1230	.79	328	0	269	.80	.84	3.7	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1245	1.6	.00	.0	.0	0	.00	.8	.00	.3

05406763 - FANCY CR. TRIB. AT SITE 7A3 NR. GILLINGHAM, WIS. (LAT 43 24 59 LONG 090 29 04.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
14...	1410	5.1	252	0	207	.62	.58	2.6	.01	.01	.03
JUNE											
03...	1345	1.4	265	0	217	1.1	.99	4.4	.01	.01	.03
SEP.											
10...	1035	1.2	275	0	226	1.1	1.2	5.3	.01	.01	.03

05406764 - FANCY CR. TRIB. AT SITE 7B NR. GILLINGHAM, WIS. (LAT 43 25 26 LONG 090 28 19.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
14...	1510	6.0	150	0	123	.51	.36	1.6	.01	.01	.03
JUNE											
03...	1430	1.8	260	5	222	.70	.69	3.1	.01	.01	.03
SEP.											
10...	0935	1.5	279	0	229	.84	.86	3.8	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
JUNE, 1974										
03...	1430	1.8	.00	.0	0	.00	.0	.00	.0	.00

05406781 - HORSE CR. AT SITE 32A1 NR. RICHLAND CENTER, WIS. (LAT 73 22 37 LONG 090 26 44.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY, 1974											
14...	1040	7.6	154	0	126	.42	.25	1.1	.01	.00	.00
JUNE											
03...	1515	2.5	258	0	212	.44	.43	1.9	.01	.01	.03
SEP.											
10...	0955	1.8	279	0	229	.45	.48	2.1	.01	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406758 - FANCY CR. TRIB AT SITE 9B1 NR. GILLINGHAM, WIS. (LAT 43 25 58 LONG 090 29 12.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	.68	.69	2.5	.00	.00	.00	.32	.31	.32	.31	650
JUNE											
03...	.88	.87	2.5	.01	.00	.00	.24	.14	.25	.14	1200
SEP.											
09...	.81	.85	4.0	.00	.00	.00	.09	.26	.09	.26	200

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406763 - FANCY CR. TRIB. AT SITE 7A3 NR. GILLINGHAM, WIS. (LAT 43 24 59 LONG 090 29 04.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	.63	.59	4.0	.00	.02	.03	.39	.31	.39	.33	380
JUNE											
03...	1.1	1.0	2.0	.02	.00	.00	.18	.20	.20	.20	500
SEP.											
10...	1.1	1.2	8.0	.00	.00	.00	.22	.14	.22	.14	170

05406764 - FANCY CR. TRIB. AT SITE 7B NR. GILLINGHAM, WIS. (LAT 43 25 26 LONG 090 28 19.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	.52	.37	16	.00	.01	.01	.39	.38	.39	.39	140
JUNE											
03...	.71	.70	1.5	.01	.00	.00	.35	.20	.36	.20	520
SEP.											
10...	.85	.87	.0	.00	.00	.00	.17	.16	.17	.16	260

DATE	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974									
03...	.0	.00	.1	.00	.0	.00	.0	.00	.0

05406781 - HORSE CR. AT SITE 32A1 NR. RICHLAND CENTER, WIS. (LAT 73 22 37 LONG 090 26 44.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY, 1974											
14...	.43	.25	5.5	.00	.00	.00	.36	.31	.36	.31	210
JUNE											
03...	.45	.44	.5	.00	.01	.01	.27	.10	.27	.11	160
SEP.											
10...	.46	.48	.5	.00	.00	.00	.22	.26	.22	.26	300

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406758 - FANCY CR. TRIB AT SITE 9B1 NR. GILLINGHAM, WIS. (LAT 43 25 58 LONG 090 29 12.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	1.0	4.4	.04	.02	214	.29	1.22	390	8.3	12.5	3
JUNE											
03...	1.1	5.0	.00	.01	275	.37	1.19	480	8.1	15.0	5
SEP.											
09...	.90	4.0	.03	.03	280	.38	.60	500	8.1	17.0	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

05406763 - FANCY CR. TRIB. AT SITE 7A3 NR. GILLINGHAM, WIS. (LAT 43 24 59 LONG 090 29 04.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	1.0	4.5	.09	.05	132	.18	1.82	250	7.7	14.0	10
JUNE											
03...	1.3	5.8	.01	.01	244	.33	.92	440	8.2	16.0	5
SEP.											
10...	1.3	5.8	.03	.03	240	.33	.78	450	7.9	14.0	5

05406764 - FANCY CR. TRIB. AT SITE 7B NR. GILLINGHAM, WIS. (LAT 43 25 26 LONG 090 28 19.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	.91	4.0	.04	.03	148	.20	2.40	270	8.1	14.0	9
JUNE											
03...	1.1	4.7	.00	.00	233	.32	1.13	440	8.4	19.0	7
SEP.											
10...	1.0	4.5	.02	.02	252	.34	1.02	460	7.9	14.5	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

05406781 - HORSE CR. AT SITE 32A1 NR. RICHLAND CENTER, WIS. (LAT 73 22 37 LONG 090 26 44.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	.79	3.5	.08	.03	138	.19	2.83	270	7.5	9.0	10
JUNE											
03...	.72	3.2	.00	.02	237	.32	1.60	400	8.1	19.0	6
SEP.											
10...	.68	3.0	.02	.03	240	.33	1.17	440	8.0	14.0	1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406758 - FANCY CR. TRIB AT SITE 9B1 NR. GILLINGHAM, WIS. (LAT 43 25 58 LONG 090 29 12.01)										
MAY , 1974										
14...	10	10.7	1.9	--	--	--	--	--	500	720
JUNE										
03...	2	11.1	4.0	6.0	--	--	--	--	320	1300
SEP.										
09...	0	7.2	4.2	5.9	--	--	--	--	470	310
05406763 - FANCY CR. TRIB. AT SITE 7A3 NR. GILLINGHAM, WIS. (LAT 43 24 59 LONG 090 29 04.01)										
MAY , 1974										
14...	30	10.0	8.0	--	--	--	--	--	420	1500
JUNE										
03...	2	10.6	2.7	9.3	--	--	--	--	830	800
SEP.										
10...	0	9.0	5.5	6.2	--	--	--	--	1300	750
05406764 - FANCY CR. TRIB. AT SITE 7B NR. GILLINGHAM, WIS. (LAT 43 25 26 LONG 090 28 19.01)										
MAY , 1974										
14...	20	10.6	1.9	--	--	--	--	--	420	910
JUNE										
03...	2	13.2	1.7	3.2	--	--	--	--	180	550
SEP.										
10...	1	10.1	5.6	1.3	--	--	--	--	200	460
05406781 - HORSE CR. AT SITE 32A1 NR. RICHLAND CENTER, WIS. (LAT 73 22 37 LONG 090 26 44.01)										
MAY , 1974										
14...	20	10.4	7.8	--	--	--	--	--	1800	2300
JUNE										
03...	2	10.7	3.3	1.5	--	--	--	--	460	200
SEP.										
10...	1	8.0	4.5	2.7	--	--	--	--	280	220

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406782 - HORSE CR TRIB AT SITE 32A2 NR RICHLAND CTR, WIS. (LAT 43 22 26 LONG 090 26 44.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY , 1974											
14...	1135	2.5	164	0	135	.26	.27	1.2	.01	.00	.00
JUNE											
03...	1600	1.0	258	0	212	.20	.19	.80	.00	.01	.03
SEP.											
10...	0845	.50	286	0	235	.23	.23	1.0	.01	.01	.03

05406783 - HORSE CR. AT SITE 32B NR. RICHLAND CENTER, WIS. (LAT 43 22 22 LONG 090 25 11.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
MAY , 1974											
14...	1250	14	171	0	140	.35	.38	1.7	.01	.00	.00
JUNE											
03...	1645	4.6	269	0	221	.44	.43	1.9	.01	.01	.03
SEP.											
10...	1123	3.4	284	0	233	.37	.45	2.0	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1645	4.6	.00	.0	.0	0	.00	.0	.00	.0

0540678S - BRUSH CR. AT SITE 4A1 NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 26 43.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
15...	1610	8.3	113	0	93	1.1	1.1	4.9	.03	.00	.00
JUNE											
03...	1645	.85	255	0	209	.17	.18	.80	.01	.00	.00
SEP.											
09...	1520	.42	270	0	221	.28	.30	1.3	.01	.01	.03

05406786 - BRUSH CR TRIB AT SITE 4A2 NR RICHLAND CNT, WIS. (LAT 43 20 54 LONG 090 26 31.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
15...	1540	2.4	256	0	210	.71	.73	3.2	.01	.00	.00
JUNE											
03...	1515	1.1	299	0	245	.62	.62	2.7	.00	.00	.00
SEP.											
09...	1410	.40	304	0	249	.66	.66	2.9	.01	.02	.07

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406782 - HORSE CR TRIB AT SITE 32A2 NR RICHLAND CTR, WIS. (LAT 43 22 26 LONG 090 26 44.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	.27	.27	5.0	.00	.01	.01	.27	.20	.27	.21	430
JUNE											
03...	.20	.20	.5	.00	.01	.01	.07	.14	.07	.15	410
SEP.											
10...	.24	.24	.5	.00	.00	.00	.10	.18	.10	.18	610

05406783 - HORSE CR. AT SITE 32B NR. RICHLAND CENTER, WIS. (LAT 43 22 22 LONG 090 25 11.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVEO NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-OAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
14...	.36	.38	2.S	.00	.04	.05	.32	.26	.32	.30	120
JUNE											
03...	.4S	.44	1.0	.02	.03	.04	.15	.22	.17	.25	310
SEP.											
10...	.38	.46	6.5	.00	.00	.00	.26	.42	.26	.42	220

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.2	.00	.0	.00	.0	.00	.0

0540678S - BRUSH CR. AT SITE 4A1 NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 26 43.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-OAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
15...	1.1	1.1	.5	.06	.03	.04	.84	.83	.90	.86	150
JUNE											
03...	.18	.18	.5	.00	.00	.00	.03	.04	.03	.04	310
SEP.											
09...	.29	.31	4.0	.00	.00	.00	.34	.17	.34	.17	140

05406786 - BRUSH CR TRIB AT SITE 4A2 NR RICHLAND CNT, WIS. (LAT 43 20 54 LONG 090 26 31.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
15...	.72	.73	.5	.01	.03	.04	.18	.18	.19	.21	100
JUNE											
03...	.62	.62	.5	.00	.03	.04	.00	.00	.00	.00	100
SEP.											
09...	.67	.68	.5	.13	.11	.14	.19	.19	.32	.30	96

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406782 - HORSE CR TRIB AT SITE 32A2 NR RICHLAND CTR, WIS. (LAT 43 22 26 LONG 090 26 44.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	.54	2.4	.04	.02	152	.21	1.03	280	7.6	10.0	10
JUNE											
03...	.27	1.2	.00	.01	227	.31	.61	410	8.2	18.0	8
SEP.											
10...	.34	1.5	.02	.02	254	.35	.34	450	7.9	13.5	5

05406783 - HORSE CR. AT SITE 32B NR. RICHLAND CENTER, WIS. (LAT 43 22 22 LONG 090 25 11.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAY , 1974											
14...	.68	3.0	.15	.04	150	.20	5.67	290	7.8	11.5	200
JUNE											
03...	.62	2.7	.02	.02	249	.34	3.09	440	8.2	19.0	6
SEP.											
10...	.64	2.8	.05	.04	244	.33	2.24	460	7.9	15.0	4

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.04	.05	.00

05406785 - BRUSH CR. AT SITE 4A1 NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 26 43.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
APR., 1974											
15...	2.0	8.9	.19	.08	109	.15	2.44	267	7.5	11.0	100
JUNE											
03...	.21	.93	.01	.01	251	.34	.58	430	8.3	20.5	7
SEP.											
09...	.63	2.8	.02	.03	270	.37	.31	490	8.1	19.5	5

05406786 - BRUSH CR TRIB AT SITE 4A2 NR RICHLAND CNT, WIS. (LAT 43 20 54 LONG 090 26 31.01)

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
APR., 1974											
15...	.91	4.0	.07	.03	234	.32	1.52	406	8.0	13.0	10
JUNE											
03...	.62	2.7	.01	.01	259	.35	.77	470	7.9	16.0	4
SEP.											
09...	.99	4.4	.05	.05	244	.33	.26	510	7.6	14.5	5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406782 - HORSE CR TRIB AT SITE 32A2 NR RICHLAND CTR, WIS. (LAT 43 22 26 LONG 090 26 44.01)										
MAY , 1974										
14...	20	10.2	6.6	--	--	--	--	--	280	400
JUNE										
03...	3	10.8	2.6	--	--	--	--	--	173	330
SEP.										
10...	2	8.2	5.8	12	--	--	--	--	360	260
05406783 - HORSE CR. AT SITE 32B NR. RICHLAND CENTER, WIS. (LAT 43 22 22 LONG 090 25 11.01)										
MAY , 1974										
14...	20	9.6	4.3	--	--	--	--	--	2100	2200
JUNE										
03...	8	8.8	2.7	22	--	--	--	--	540	630
SEP.										
10...	3	8.2	5.7	--	--	--	--	--	1800	530
05406785 - BRUSH CR. AT SITE 4A1 NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 26 43.01)										
APR., 1974										
15...	100	10.2	5.7	8.5	--	--	--	--	2300	1500
JUNE										
03...	1	10.9	2.0	5.9	--	--	--	--	8160	260
SEP.										
09...	2	9.8	3.4	4.0	--	--	--	--	280	340
05406786 - BRUSH CR TRIB AT SITE 4A2 NR RICHLAND CNT, WIS. (LAT 43 20 54 LONG 090 26 31.01)										
APR., 1974										
15...	5	10.6	4.1	22	--	--	--	--	8170	858
JUNE										
03...	2	10.0	6.0	1.4	--	--	--	--	96	190
SEP.										
09...	0	8.2	12	1.3	--	--	--	--	590	260

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406787 - BRUSH CR. AT SITE 4B NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 25 55.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
15...	1820	9.0	164	0	135	.93	.94	4.2	.01	.00	.00
JUNE											
03...	1405	2.6	278	0	228	.33	.34	1.5	.00	.00	.00
SEP.											
09...	1635	1.9	297	0	244	.46	.47	2.1	.03	.03	.10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1405	2.6	.00	.0	.0	0	.00	.0	.00	.0

05406810 - PINE RIVER AT RICHLAND CENTER, WIS. (LAT 43 18 54 LONG 090 22 40.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
16...	1430	489	182	0	149	.98	.99	4.4	.01	.00	.00
JUNE											
04...	1205	152	272	0	223	.48	.52	2.3	.02	.02	.07
SEP.											
09...	1230	126	267	0	219	.58	.57	2.5	.15	.16	.53

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
04...	1205	152	.00	.0	.0	0	.00	.0	.00	.0

05406835 - ASH CR. AT SITE 2A NR. RICHLAND CENTER, WIS. (LAT 43 17 56 LONG 090 25 54.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
15...	1150	3.4	174	0	143	1.4	1.4	6.2	.01	.00	.00
JUNE											
03...	1230	1.2	286	0	235	1.3	1.3	5.8	.01	.01	.03
SEP.											
10...	1240	1.4	287	0	235	1.2	1.3	5.8	.01	.00	.00

05406840 - ASH CR. AT SITE 2B NR. RICHLAND CENTER, WIS. (LAT 43 17 34 LONG 090 25 11.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
15...	1350	6.4	197	0	162	1.4	1.4	6.2	.01	.00	.00
JUNE											
03...	1015	2.2	295	0	242	.94	.94	4.2	.01	.01	.03
SEP.											
10...	1345	2.2	278	0	228	.86	.89	3.9	.01	.01	.03

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
03...	1015	2.2	.00	.0	.0	0	.00	.0	.00	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406787 - BRUSH CR. AT SITE 4B NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 25 55.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
15...	.94	.94	.0	.03	.02	.03	.85	.61	.88	.63	95
JUNE											
03...	.33	.34	.5	.00	.00	.00	.09	.14	.09	.14	85
SEP.											
09...	.49	.50	3.0	.06	.03	.04	.71	.38	.77	.41	170

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05406810 - PINE RIVER AT RICHLAND CENTER, WIS. (LAT 43 18 54 LONG 090 22 40.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
16...	.99	.99	1.5	.08	.08	.10	.44	.41	.52	.49	210
JUNE											
04...	.50	.54	2.0	.01	.05	.06	.29	.17	.30	.22	110
SEP.											
09...	.73	.73	7.5	.03	.04	.05	.49	.19	.52	.23	340

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
04...	.00	.0	.00	.1	.00	.0	.00	.0	.00	.0

05406835 - ASH CR. AT SITE 2A NR. RICHLAND CENTER, WIS. (LAT 43 17 56 LONG 090 25 54.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
15...	1.4	1.4	.5	.08	.07	.09	.34	.47	.42	.54	350
JUNE											
03...	1.3	1.3	.0	.00	.01	.01	.09	.00	.09	.00	370
SEP.											
10...	1.2	1.3	.5	.00	.00	.00	.30	.30	.30	.30	340

05406840 - ASH CR. AT SITE 2B NR. RICHLAND CENTER, WIS. (LAT 43 17 34 LONG 090 25 11.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
15...	1.4	1.4	.5	.07	.08	.10	.31	.17	.38	.25	320
JUNE											
03...	.95	.95	.0	.00	.01	.01	.17	.16	.17	.17	470
SEP.											
10...	.87	.90	2.5	.00	.00	.00	.18	.14	.18	.14	320

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406787 - BRUSH CR. AT SITE 4B NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 25 55.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
15...	1.8	8.1	.16	.05	189	.26	4.59	320	7.7	10.0	50
JUNE											
03...	.42	1.9	.01	.00	239	.33	1.68	465	8.3	18.0	4
SEP.											
09...	1.3	5.6	.18	.05	266	.36	1.36	490	8.2	18.5	2

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

05406810 - PINE RIVER AT RICHLAND CENTER, WIS. (LAT 43 18 54 LONG 090 22 40.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
16...	1.5	6.7	.29	.15	180	.24	238	329	7.7	11.0	50
JUNE											
04...	.80	3.5	.37	.33	250	.34	103	440	7.7	19.0	6
SEP.											
09...	1.3	5.5	.26	.17	244	.33	83.0	450	8.0	20.0	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
04...	.00	.0	.0	0	0	0	.00	.00	.00

05406835 - ASH CR. AT SITE 2A NR. RICHLAND CENTER, WIS. (LAT 43 17 56 LONG 090 25 54.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
15...	1.8	8.1	.10	.05	183	.25	1.68	314	7.8	9.0	20
JUNE											
03...	1.4	6.2	.01	.01	256	.35	.86	450	8.0	12.0	3
SEP.											
10...	1.5	6.6	.03	.03	264	.36	1.00	480	7.9	13.5	5

05406840 - ASH CR. AT SITE 2B NR. RICHLAND CENTER, WIS. (LAT 43 17 34 LONG 090 25 11.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
15...	1.8	7.9	.11	.05	202	.27	3.49	349	8.0	12.0	20
JUNE											
03...	1.1	5.0	.00	.00	268	.36	1.59	460	8.2	12.0	4
SEP.											
10...	1.1	4.6	.03	.02	240	.33	1.43	460	8.2	17.0	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
03...	.00	.0	.0	0	0	0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406787 - BRUSH CR. AT SITE 4B NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 25 55.01)										
APR., 1974										
15...	50	9.9	5.2	8.5	--	--	--	--	1300	B2300
JUNE										
03...	1	12.2	2.2	5.9	--	--	--	--	110	320
SEP.										
09...	40	8.8	3.0	13	--	--	--	--	B2000	850
05406810 - PINE RIVER AT RICHLAND CENTER, WIS. (LAT 43 18 54 LONG 090 22 40.01)										
APR., 1974										
16...	40	10.4	5.8	5.0	--	--	--	--	--	2400
JUNE										
04...	10	8.0	8.7	3.2	--	--	--	--	13000	B120000
SEP.										
09...	20	9.0	4.3	8.1	--	--	--	--	B5200	1000
05406835 - ASH CR. AT SITE 2A NR. RICHLAND CENTER, WIS. (LAT 43 17 56 LONG 090 25 54.01)										
APR., 1974										
15...	6	11.5	4.4	50	--	--	--	--	5500	1400
JUNE										
03...	2	11.3	4.6	2.8	--	--	--	--	290	200
SEP.										
10...	1	9.9	5.8	.9	--	--	--	--	830	240
05406840 - ASH CR. AT SITE 2B NR. RICHLAND CENTER, WIS. (LAT 43 17 34 LONG 090 25 11.01)										
APR., 1974										
15...	10	11.2	3.2	--	15	--	--	--	1700	730
JUNE										
03...	2	11.3	3.0	6.5	--	--	--	--	570	340
SEP.										
10...	1	11.5	2.8	1.3	--	--	--	--	190	290

B RESULTS BASED ON CDLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406851 - PINE RIVER AT TWIN BLUFFS, WIS. (LAT 43 16 37 LONG 090 18 38.01)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
APR., 1974											
16...	1630	496	181	0	148	.95	.96	4.2	.01	.00	.00
JUNE											
04...	1430	171	273	0	224	.66	.57	2.5	.01	.00	.00
SEP.											
09...	1000	133	273	0	224	.64	.60	2.7	.07	.09	.30

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974										
04...	1430	171	.00	.0	.0	0	.00	.0	.00	.0

	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)
05409830 - N. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 47 LONG 090 54 34.01)											
MAY , 1974											
03...	1050	.95	302	0	248	.39	--	--	.00	.00	.00
JUNE											
25...	1015	.95	336	0	276	.54	--	--	.01	.00	.00
AUG.											
27...	1215	.88	--	--	--	--	--	--	--	--	--
05409840 - SP TRIB TO N FK NEDERLO CR NR GAYS MILLS, WIS. (LAT 43 21 41 LONG 090 54 33.01)											
MAY , 1974											
03...	1230	.54	334	0	274	1.2	--	--	.00	.00	.00
JUNE											
25...	0930	.54	330	0	271	1.1	--	--	.00	.00	.00
AUG.											
27...	1145	.49	--	--	--	--	--	--	--	--	--
05409860 - S. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 36 LONG 090 54 31.01)											
MAY , 1974											
03...	1325	1.2	282	0	231	.33	--	--	.00	.00	.00
JUNE											
25...	0800	1.3	336	0	276	.53	--	--	.01	.00	.00
AUG.											
27...	1100	1.2	--	--	--	--	--	--	--	--	--
05409870 - NEDERLO CR AT UTICA TN HALL NR GAYS MILLS, WIS. (LAT 43 21 30 LONG 090 53 49.01)											
MAY , 1974											
03...	1430	3.2	281	0	230	.37	--	--	.00	.00	.00
JUNE											
25...	1145	3.2	313	0	257	.53	--	--	.01	.00	.00
AUG.											
27...	1020	3.2	--	--	--	--	--	--	--	--	--
05409890 - NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 43 LONG 090 52 44)											
MAY , 1974											
03...	1540	5.3	282	0	231	.45	--	--	.00	.01	.03
JUNE											
25...	1250	5.7	326	0	267	.66	--	--	.00	.00	.00
AUG.											
27...	0915	5.1	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406851 - PINE RIVER AT TWIN BLUFFS, WIS. (LAT 43 16 37 LONG 090 18 38.01)

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
APR., 1974											
16...	.96	.96	.0	.12	.09	.12	.40	.41	.52	.50	180
JUNE											
04...	.67	.57	2.5	.04	.10	.13	.41	.19	.45	.29	120
SEP.											
09...	.71	.69	1.0	.10	.08	.10	.46	.20	.56	.28	130

DATE	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE, 1974										
04...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

05409830 - N. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 47 LONG 090 54 34.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
03...	.39	.38	7.0	.02	.01	.01	.09	.11	.11	.12	1900
JUNE											
25...	.55	.55	--	.00	.01	.01	.27	.19	.27	.20	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

05409840 - SP TRIB TO N FK NEDERLO CR NR GAYS MILLS, WIS. (LAT 43 21 41 LONG 090 54 33.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
03...	1.2	1.2	--	.01	.00	.00	.05	.00	.06	.00	--
JUNE											
25...	1.1	1.1	--	.00	.00	.00	.02	.05	.02	.05	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

05409860 - S. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 36 LONG 090 54 31.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
03...	.33	.34	11	.01	.01	.01	.08	.05	.09	.06	1300
JUNE											
25...	.54	.54	--	.00	.02	.03	.09	.05	.09	.07	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

05409870 - NEDERLO CR AT UTICA TN HALL NR GAYS MILLS, WIS. (LAT 43 21 30 LONG 090 53 49.01)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
03...	.37	.37	17	.01	.02	.03	.10	.08	.11	.10	370
JUNE											
25...	.54	.54	--	.00	.02	.03	.11	.08	.11	.10	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

05409890 - NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 43 LONG 090 52 44)

DATE	TOTAL NITRATE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL NITRATE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM DEP. (MG/KG)
MAY , 1974											
03...	.45	.48	51	.01	.01	.01	.09	.08	.10	.09	370
JUNE											
25...	.66	.65	--	.03	.03	.04	.23	.21	.26	.24	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406851 - PINE RIVER AT TWIN BLUFFS, WIS. (LAT 43 16 37 LONG 090 18 38.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR., 1974											
16...	1.5	6.6	.27	.16	192	.26	257	326	7.7	10.0	40
JUNE											
04...	1.1	5.0	.23	.18	257	.35	119	440	7.7	20.5	6
SEP.											
09...	1.3	5.6	.26	.14	252	.34	90.5	460	7.9	17.5	5

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974									
04...	.00	.0	.0	0	0	0	.00	.00	.00

05409830 - N. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 47 LONG 090 54 34.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
03...	.50	2.2	.00	.01	224	.30	.57	461	8.1	14.0	3
JUNE											
25...	.82	3.6	.01	.01	264	.36	.68	490	8.1	12.5	0
AUG.											
27...	--	--	--	--	--	--	--	520	--	17.0	--

05409840 - SP TRIB TO N FK NEDERLO CR NR GAYS MILLS, WIS. (LAT 43 21 41 LONG 090 54 33.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
03...	1.3	5.6	.06	.05	276	.38	.40	511	7.6	9.5	2
JUNE											
25...	1.1	5.0	.00	.00	272	.37	.40	512	7.4	9.0	0
AUG.											
27...	--	--	--	--	--	--	--	520	--	9.0	--

05409860 - S. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 36 LONG 090 54 31.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
03...	.42	1.9	.01	.01	212	.29	.69	429	8.2	16.0	5
JUNE											
25...	.63	2.8	.01	.00	273	.37	.96	506	8.1	10.0	0
AUG.											
27...	--	--	--	--	--	--	--	500	--	13.0	--

05409870 - NEDERLO CR AT UTICA TN HALL NR GAYS MILLS, WIS. (LAT 43 21 30 LONG 090 53 49.01)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
03...	.48	2.1	.01	.02	214	.29	1.85	436	8.2	16.0	7
JUNE											
25...	.65	2.9	.00	.00	256	.35	2.21	474	8.0	15.0	0
AUG.											
27...	--	--	--	--	--	--	--	510	--	13.0	--

05409890 - NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 43 LONG 090 52 44)

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
MAY , 1974											
03...	.55	2.4	.01	.01	240	.33	3.43	440	8.2	17.0	7
JUNE											
25...	.92	4.1	.01	.00	276	.38	4.25	482	--	16.0	0
AUG.											
27...	--	--	--	--	--	--	--	520	--	13.5	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	TOTAL PHYTOPLANKTON (CELLS PER ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
WISCONSIN RIVER BASIN--Continued										
05406851 - PINE RIVER AT TWIN BLUFFS, WIS. (LAT 43 16 37 LONG 090 18 38.01)										
APR., 1974										
16...	30	10.4	5.8	41	--	--	--	--	4800	8660
JUNE										
04...	80	6.4	8.7	1.9	--	--	--	--	2200	2350
SEP.										
09...	20	8.5	5.5	4.9	--	--	--	--	3900	400
05409830 - N. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 47 LONG 090 54 34.01)										
MAY , 1974										
03...	0	12.6	3.8	16	--	--	--	1000	--	--
JUNE										
25...	4	9.6	4.3	--	.80	.9	1.5	1200	--	--
AUG.										
27...	--	10.4	--	7.2	55	3.3	20	780	--	--
05409840 - SP TRIB TO N FK NEDERLO CR NR GAYS MILLS, WIS. (LAT 43 21 41 LONG 090 54 33.01)										
MAY , 1974										
03...	0	9.2	13	1.3	--	--	--	--	--	--
JUNE										
25...	1	8.3	21	2.6	--	--	--	--	--	--
AUG.										
27...	--	9.2	--	6.6	--	--	--	--	--	--
05409860 - S. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 36 LONG 090 54 31.01)										
MAY , 1974										
03...	6	13.6	2.8	5.0	--	--	--	2200	--	--
JUNE										
25...	1	11.0	4.3	2.4	19	--	--	660	--	--
AUG.										
27...	--	11.6	--	3.9	48	6.6	110	860	--	--
05409870 - NEDERLO CR AT UTICA TN HALL NR GAYS MILLS, WIS. (LAT 43 21 30 LONG 090 53 49.01)										
MAY , 1974										
03...	1	13.6	2.8	20	--	--	--	1300	--	--
JUNE										
25...	2	11.5	5.0	2.3	1.5	1.3	4.2	1100	--	--
AUG.										
27...	--	11.2	--	1.0	22	5.5	91	620	--	--
05409890 - NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 43 LONG 090 52 44)										
MAY , 1974										
03...	1	14.3	2.8	45	--	--	--	1300	--	--
JUNE										
25...	2	11.4	--	3.1	7.7	4.4	22	540	--	--
AUG.										
27...	--	10.0	--	73	18	9.1	130	1600	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
ROCK RIVER BASIN											
05427255 - KOSHKONONG CREEK AT SUN PRAIRIE, WIS. (LAT 43 10 39 LONG 089 12 56.01)											
SEP., 1974 03...	1040	.28	.04	.12	.50	.01	.02	.07	.05	.14	.08
05427256 - STP EFFLUENT CHANNEL AT SUN PRAIRIE, WIS. (LAT 43 10 39 LONG 089 12 56.02)											
SEP., 1974 03...	0940	2.6	.11	.12	.50	.31	.29	.95	.42	.41	.16
05427257 - KOSHKONONG CR 50' DS STP OUTFALL SUNPRAIRIE WIS. (LAT 43 10 39 LONG 089 12 56.03)											
SEP., 1974 03...	1005	2.8	.15	.18	.80	.28	.27	.89	.43	.45	15
05427258 - KOSHKONONG CR .8M OS STP OUTFALL SUNPRAIRIE WIS. (LAT 43 10 10 LONG 089 13 16)											
SEP., 1974 03...	1110	3.1	--	.06	.30	.01	.06	.20	.00	.12	11
05427260 - KOSHKONONG CR 1.52M DS F OUTFALL SUNPRAIRIE WIS. (LAT 43 09 44 LONG 089 13 37.01)											
SEP., 1974 03...	1310	3.6	.00	.03	.10	.00	.03	.10	.00	.06	10
05427264 - KOSHKONG CR 2.02M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 30 LONG 089 14 13)											
SEP., 1974 03...	1510	--	.00	.02	.10	.01	.01	.03	.01	.03	11
05427265 - KOSHKONONG CR 2.69M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 30 LONG 089 14 43)											
SEP., 1974 03...	1650	4.0	.01	.02	.10	.01	.01	.03	.02	.03	9.8
05427267 - KOSHKONOG CR TRIBUTARY NR SUN PRAIRIE, WIS. (LAT 43 09 31 LONG 089 14 43)											
SEP., 1974 03...	1715	.27	1.7	1.7	7.4	.02	.03	.10	1.7	1.7	.01
05427268 - KOSHKONONG CR 3.19M OS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 15 LONG 089 14 45)											
SEP., 1974 03...	1800	--	.05	.07	.30	.01	.01	.03	.06	.08	9.9
05427270 - KOSHKONONG CR 3.68M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 08 58 LONG 089 14 13)											
SEP., 1974 03...	1945	4.0	.13	.16	.70	.01	.01	.03	.14	.17	11
05427369 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 20 LONG 089 04 16)											
JUNE, 1974 24...	0945	.25	10	11	47	.53	.32	1.1	11	11	.25
05427370 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 28 LONG 089 04 16)											
JUNE, 1974 24...	1105	.43	1.S	6.8	30	.34	.25	.82	1.8	7.1	3.2
05427371 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 40 LONG 089 04 12)											
JUNE, 1974 24...	1215	.47	5.4	5.7	25	.25	.26	.85	5.7	6.0	1.1
05427372 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 40 LONG 089 03 59)											
JUNE, 1974 24...	1345	--	5.8	5.8	26	.26	.27	.89	6.1	6.1	1.7
05427373 - TRIB TO MUD CR TRIB AT DEERFIELD, WIS. (LAT 43 03 41 LONG 089 03 58)											
JUNE, 1974 24...	1320	--	.S1	.48	2.1	.01	.01	.03	.S2	.49	.39

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
ROCK RIVER BASIN--Continued										
05427255 - KOSHKONONG CREEK AT SUN PRAIRIE, WIS. (LAT 43 10 39 LONG 089 12 56.01)										
SEP., 1974										
03...	.01	.01	.52	.46	.60	.47	.65	2.9	11.9	1.8
054272S6 - STP EFFLUENT CHANNEL AT SUN PRAIRIE, WIS. (LAT 43 10 39 LONG 089 12 56.02)										
SEP., 1974										
03...	16	21	1.0	1.0	17	17	17	77	18.0	6.3
05427257 - KOSHKONONG CR 50' DS STP OUTFALL SUNPRAIRIE WIS. (LAT 43 10 39 LONG 089 12 56.03)										
SEP., 1974										
03...	15	19	1.0	1.0	16	16	16	73	16.2	5.5
05427258 - KOSHKONONG CR .8M DS STP OUTFALL SUNPRAIRIE WIS. (LAT 43 10 10 LONG 089 13 16)										
SEP., 1974										
03...	11	14	2.0	1.0	13	12	13	58	17.0	.8
05427260 - KOSHKONONG CR 1.52M DS F OUTFALL SUNPRAIRIE WIS. (LAT 43 09 44 LONG 089 13 37.01)										
SEP., 1974										
03...	9.9	13	2.0	.10	12	10	12	53	17.0	.7
05427264 - KOSHKONG CR 2.02M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 30 LONG 089 14 13)										
SEP., 1974										
03...	10	13	.00	1.0	11	11	11	49	19.0	2.4
05427265 - KOSHKONONG CR 2.69M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 30 LONG 089 14 43)										
SEP., 1974										
03...	9.7	12	.00	.30	9.8	10	9.8	43	19.0	2.8
05427267 - KOSHKONOG CR TRIBUTARY NR SUN PRAIRIE, WIS. (LAT 43 09 31 LONG 089 14 43)										
SEP., 1974										
03...	.04	.05	.67	.45	.68	.49	2.4	11	19.0	17.4
05427268 - KOSHKONONG CR 3.19M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 09 15 LONG 089 14 45)										
SEP., 1974										
03...	9.7	12	1.1	.30	11	10	11	49	18.5	3.4
05427270 - KOSHKONONG CR 3.68M DS FR STP AT SUNPRAIRIE WIS. (LAT 43 08 58 LONG 089 14 13)										
SEP., 1974										
03...	11	14	.00	.00	11	11	11	49	14.5	3.4
05427369 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 20 LONG 089 04 16)										
JUNE, 1974										
24...	4.6	5.9	5.2	.90	5.5	5.5	17	73	15.0	--
05427370 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 28 LONG 089 04 16)										
JUNE, 1974										
24...	3.1	4.0	4.3	1.1	7.5	4.2	9.3	41	15.0	--
05427371 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 40 LONG 089 04 12)										
JUNE, 1974										
24...	2.7	3.5	2.5	1.1	3.6	3.8	9.3	41	17.5	--
05427372 - MUD CR TRIBUTARY AT DEERFIELD, WIS. (LAT 43 03 40 LONG 089 03 59)										
JUNE, 1974										
24...	2.5	3.2	1.3	1.1	3.0	3.6	9.1	40	18.0	--
05427373 - TRIB TO MUD CR TRIB AT DEERFIELD, WIS. (LAT 43 03 41 LONG 089 03 58)										
JUNE, 1974										
24...	.48	.62	1.3	1.2	1.7	1.7	2.2	9.8	14.5	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
ROCK RIVER BASIN--Continued										
05427948 - PHEASANT BR. AT MIDDLETON, WIS. (LAT 43 06 12 LONG 089 30 42.01)										
JULY, 1974										
17...	1130	1.4	18	20	230	120	48	7.1	3.3	398
05427950 - PHEASANT BR. AT MOUTH AT MIDDLETON, WIS. (LAT 43 06 22 LONG 089 29 01.01)										
JULY, 1974										
12...	1430	5.8	14	10	67	83	40	6.4	1.8	351

DATE	TIME	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL NITRITE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	TEMPERATURE (DEG C)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)
05429220 - NEVIN WETLAND SITE B AT MADISON, WIS. (LAT 43 00 46 LONG 089 24 39)										
JUNE, 1974										
26...	1305	.00	.0	.0	.5	4100	4100	17.0	--	--
05429224 - NEVIN WETLAND SITE A AT MADISON, WIS. (LAT 43 00 55 LONG 089 24 56)										
JUNE, 1974										
12...	0805	--	--	--	--	--	--	10.0	2.5	--
19...	1210	--	--	--	--	--	--	15.0	--	--
26...	1530	.50	.0	.5	.8	2400	2400	15.0	2.6	51
05429230 - NEVIN WETLAND SITE D AT MADISON, WIS. (LAT 43 01 08 LONG 089 24 23)										
JUNE, 1974										
12...	0850	--	--	--	--	--	--	10.8	7.3	--
19...	1300	--	--	--	--	--	--	17.5	9.5	--
26...	1420	.50	.0	.5	7.7	5600	5600	18.0	3.4	123

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROCK RIVER BASIN--Continued

05427948 - PHEASANT BR. AT MIDDLETON, WIS. (LAT 43 06 12 LONG 089 30 42.01)

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
JULY, 1974										
17...	0	326	120	17	.5	3.0	13	.07	.23	3.1

05427950 - PHEASANT BR. AT MOUTH AT MIDDLETON, WIS. (LAT 43 06 22 LONG 089 29 01.01)

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
JULY, 1974										
12...	0	288	47	15	.2	1.9	8.3	.12	.39	2.0

05429220 - NEVIN WETLAND SITE B AT MADISON, WIS. (LAT 43 00 46 LONG 089 24 39)

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974											
26...	1305	.00	.0	.0	0	.00	.0	.00	.0	.00	.0

DATE	DIAZINON (UG/L)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTDM DEPOSITS (UG/KG)	ETHION (UG/L)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)
JUNE, 1974											
26...	.00	.0	<.01	.0	.00	.0	.00	.0	.00	.0	.00

05429230 - NEVIN WETLAND SITE D AT MADISON, WIS. (LAT 43 01 08 LONG 089 24 23)

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BDTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENORIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLDR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE, 1974												
26...	1420	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROCK RIVER BASIN--Continued

05427948 - PHEASANT BR. AT MIDDLETON, WIS. (LAT 43 06 12 LONG 089 30 42.01)

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
JULY, 1974										
17...	1.4	.04	630	544	.86	2.47	500	170	3	.1

05427950 - PHEASANT BR. AT MOUTH AT MIDDLETON, WIS. (LAT 43 06 22 LONG 089 29 01.01)

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
JULY, 1974										
12...	1.0	.04	460	389	.63	7.25	370	84	4	.1

05429220 - NEVIN WETLAND SITE B AT MADISON, WIS. (LAT 43 00 46 LONG 089 24 39)

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION (UG/L)
JUNE, 1974										
26...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION (UG/L)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974										
26...	.0	.0	0	0	0	.00	.0	.00	.00	.00

05429230 - NEVIN WETLAND SITE D AT MADISON, WIS. (LAT 43 01 08 LONG 089 24 23)

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM OE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE, 1974											
26...	.0	.0	.0	.0	.0	0	0	.0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CD2) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
ROCK RIVER BASIN--Continued									
05427948 - PHEASANT BR. AT MIDDLETON, WIS. (LAT 43 06 12 LONG 089 30 42.01)									
JULY, 1974									
17...	910	7.7	16.5	30	10	6.8	--	13	--
05427950 - PHEASANT BR. AT MOUTH AT MIDDLETON, WIS. (LAT 43 06 22 LONG 089 29 01.01)									
JULY, 1974									
12...	700	7.8	20.0	7	7	11.2	5.1	8.9	6.0

MISCELLANEOUS ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

The following table contains a series of periodic specific conductance measurements obtained as part of water-resources investigations at stream gaging stations in Wisconsin. The purpose of these measurements is to determine the range in specific conductance under various streamflow conditions.

Specific Conductance (Micromhos/cm at 25°C), October 1973 to September 1974

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
STREAMS TRIBUTARY TO LAKE SUPERIOR									
04024430 NEMADJI RIVER NEAR SOUTH SUPERIOR, WIS (LAT 46 35 00 LONG 092 05 38)									
Nov. 13, 1973	1345	0.5	153	230	Apr. 26, 1974	1315	8.0	963	140
Nov. 21, 1973	1345	2.5	3,050	170	Apr. 26, 1974	1410	8.0	929	140
Dec. 28, 1973	1400	0.0	124	240	June 3, 1974	1810	17.0	362	120
Jan. 23, 1974	1430	0.0	82.4	230	June 20, 1974	1240	18.5	310	100
Feb. 8, 1974	1145	0.0	79.4	-	July 16, 1974	0945	21.0	127	210
Mar. 28, 1974	1000	0.0	85.0	270	Aug. 8, 1974	1430	21.0	294	160
Apr. 22, 1974	1900	5.0	2,170	120	Aug. 21, 1974	1745	22.0	111	205
Apr. 23, 1974	0820	4.0	1,930	125					
04025500 BOIS BRULE RIVER AT BRULE, WIS (LAT 46 32 16 LONG 091 35 43)									
Nov. 9, 1973	1230	0.5	159	120	June 4, 1974	1130	15.5	202	115
Dec. 27, 1973	1645	0.0	166	120	July 17, 1974	0945	18.0	150	90
Mar. 27, 1974	1700	2.5	141	130	Aug. 22, 1974	1210	15.0	138	135
May 2, 1974	1325	11.0	244	105					
04027000 BAD RIVER NEAR ODANAH, WIS (LAT 46 29 15 LONG 090 41 45)									
Nov. 14, 1973	0825	0.0	220	110	May 1, 1974	1430	11.5	1,000	100
Dec. 4, 1973	1045	0.0	392	120	June 5, 1974	1105	21.0	362	100
Dec. 27, 1973	1150	0.0	254	140	July 23, 1974	1015	21.0	287	140
Feb. 7, 1974	1135	0.0	181	-	Aug. 23, 1974	1150	18.5	219	115
Mar. 27, 1974	1115	0.0	200	120					
04027500 WHITE RIVER NEAR ASHLAND, WIS (LAT 46 29 50 LONG 090 54 15)									
Nov. 14, 1973	1045	2.5	164	140	July 18, 1974	1015	23.5	194	190
Dec. 27, 1973	1330	0.0	143	180	Aug. 22, 1974	1150	18.5	224	175
Feb. 7, 1974	1325	0.0	142	175	Aug. 23, 1974	1430	17.5	218	175
Mar. 27, 1974	1255	0.5	220	190	Aug. 29, 1974	1230	19.5	250	170
May 1, 1974	1735	11.5	357	180	Sept.19, 1974	1230	13.5	198	170
June 5, 1974	0950	19.0	187	180					
STREAMS TRIBUTARY TO LAKE MICHIGAN									
04064500 PINE RIVER BELOW PINE RIVER POWERPLANT NEAR FLORENCE, WIS (LAT 45 50 16 LONG 088 13 31)									
Oct. 11, 1973	1030	15.0	329	150	Apr. 23, 1974	1005	6.5	1,520	110
Nov. 6, 1973	1015	0.5	312	150	June 5, 1974	1100	18.0	444	120
Jan. 8, 1974	1230	0.0	197	160	July 23, 1974	1000	19.5	319	250
Feb. 27, 1974	1415	0.0	230	250	Aug. 28, 1974	0830	18.0	318	210
Mar. 28, 1974	1645	1.0	188	140					
04066000 MENOMINEE RIVER NEAR PEMBINE, WIS (LAT 45 35 24 LONG 087 46 34)									
Oct. 11, 1973	1415	15.5	3,540	210	July 26, 1974	1215	23.5	2,540	180
Nov. 5, 1973	1400	4.0	3,290	200	Aug. 28, 1974	1145	20.0	2,740	260
June 25, 1974	1135	17.0	2,560	180					
04069500 PESHTIGO RIVER AT PESHTIGO, WIS (LAT 45 02 49 LONG 087 44 40)									
Oct. 11, 1973	1310	17.0	1,010	240	Apr. 16, 1974	0955	10.0	2,820	280
Nov. 15, 1973	1305	0.6	868	180	Apr. 24, 1974	1000	7.0	2,120	240
Jan. 9, 1974	1145	0.5	451	480	June 25, 1974	1640	19.0	179	280
Feb. 27, 1974	1025	1.0	456	320	Aug. 28, 1974	1630	21.5	883	280

MISCELLANEOUS ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04071000 OCONTO RIVER NEAR GILLETT, WIS (LAT 44 51 53 LONG 088 18 00)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 29, 1973	1415	8.4	762	240	May 29, 1974	1315	16.0	541	220
Nov. 29, 1973	1215	3.0	822	190	June 25, 1974	1520	19.5	569	220
Jan. 10, 1974	1100	0.0	366	300	July 29, 1974	1300	17.0	324	290
Feb. 26, 1974	1225	0.0	421	330	Aug. 29, 1974	1310	19.0	578	240
Apr. 15, 1974	1415	5.0	2,190	160	Sept. 27,1974	1300	14.0	382	280
Apr. 22, 1974	1545	9.5	1,230	170					

04071858 PENSUAKEE RIVER NEAR PENSAUKEE, WIS (LAT 44 49 07 LONG 087 57 11)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 11, 1973	1725	18.5	24.2	470	Apr. 15, 1974	1710	5.5	837	
Nov. 15, 1973	1515	1.4	29.4	450	June 14, 1974	1300	18.0	146	380
Jan. 9, 1974	1355	0.0	6.47	850	Aug. 7, 1974	1315	23.5	21.1	360
Feb. 26, 1974	1445	0.0	18.0	580	Aug. 29, 1974	0920	17.5	15.3	450

04073050 GRAND RIVER NEAR KINGSTON, WIS (LAT 43 41 09 LONG 089 05 09)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 5, 1973	0900	13.0	58.1	725	May 3, 1974	0745	13.0	69.4	700
Nov. 9, 1973	1045	0.0	27.9	750	June 14, 1974	1000	18.0	144	600
Dec. 21, 1973	1100	0.0	25.0	600	July 25, 1974	1545	20.5	54.0	650
Feb. 1, 1974	1700	0.0	68.5	620	Sept. 5, 1974	1130	21.0	20.6	590
Mar. 4, 1974	1500	1.0	434	200					

04073500 FOX RIVER AT BERLIN, WIS (LAT 43 57 14 LONG 088 57 08)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 25, 1973	1045	-	990	370	May 2, 1974	1230	16.0	2,110	360
Dec. 11, 1973	1400	0.0	790	380	June 13, 1974	1145	18.5	2,270	370
Mar. 6, 1974	1415	1.0	2,340	260	Aug. 1, 1974	1215	20.0	814	370

04074950 WOLF RIVER AT LANGLADE, WIS (LAT 45 11 24 LONG 088 44 00)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 29, 1973	1320	7.0	442	240	Apr. 9, 1974	1440	3.0	584	200
Jan. 4, 1974	1410	0.0	346	280	July 9, 1974	1440	26.0	247	200
Feb. 19, 1974	1250	0.0	293	120	Aug. 29, 1974	1430	20.0	321	220
May 24, 1974	1305	14.0	457	150					

04077000 WOLF RIVER AT KESHENA FALLS, WIS (LAT 44 53 28 LONG 088 39 18)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 12, 1973	1050	15.0	847	320	Apr. 20, 1974	1305	9.5	1,400	150
Nov. 16, 1973	1050	1.5	695	300	June 19, 1974	1235	17.0	832	220
Jan. 11, 1974	1135	0.0	462	300	Aug. 7, 1974	1635	21.0	790	250
Feb. 26, 1974	1020	0.0	544	180	Sept.11, 1974	1020	15.0	717	260
Apr. 15, 1974	1245	4.0	2,090	160					

04078500 EMBARRASS RIVER NEAR EMBARRASS, WIS (LAT 44 43 29 LONG 088 44 10)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 12, 1973	1220	16.0	221	560	May 29, 1974	1515	16.0	286	360
Nov. 16, 1973	1215	1.0	235	420	June 25, 1974	1220	17.0	176	300
Jan. 11, 1974	1415	0.0	112	480	Aug. 7, 1974	1150	21.5	134	300
Feb. 25, 1974	1550	0.0	176	480	Sept.10, 1974	1215	15.5	96	420
Apr. 13, 1974	1200	7.5	2,470	160					

04079000 WOLF RIVER AT NEW LONDON, WIS (LAT 44 23 32 LONG 088 44 25)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 12, 1973	1130	16.5	1,230	320	Apr. 23, 1974	1105	9.5	5,040	250
Nov. 20, 1973	1320	6.0	1,400	350	June 19, 1974	1610	17.0	3,800	330
Jan. 10, 1974	1550	0.0	945	400	Aug. 8, 1974	1130	23.5	1,320	290
Feb. 25, 1974	1335	0.0	1,050	380	Sept.11, 1974	1100	10.5	770	320
Apr. 16, 1974	1350	5.5	6,120	-					

04079602 LITTLE WOLF RIVER AT GALLOWAY, WIS (LAT 44 41 27 LONG 089 15 51)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 20, 1973	1535	4.5	12.4	460	May 31, 1974	1240	14.5	24.7	250
Feb. 1, 1974	1145	0.0	9.86	380	June 27, 1974	1400	17.5	8.0	420
Mar. 12, 1974	1050	3.0	15.9	350	July 11, 1974	1200	17.5	6.8	450
Apr. 15, 1974	1215	3.5	90.8	120	Aug. 8, 1974	1430	18.0	5.0	420
Apr. 23, 1974	1405	7.0	32.8	200	Sept.11, 1974	1215	16.5	6.2	410

04080950 EMMONS CREEK NEAR RURAL, WIS (LAT 44 18 55 LONG 089 11 34)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 16, 1973	1500	8.0	29.9	-	Apr. 23, 1974	1515	6.0	28.8	360
Nov. 13, 1973	1600	6.5	31.9	-	May 21, 1974	1130	12.0	29.5	360
Dec. 18, 1973	1530	2.5	27.4	360	June 25, 1974	-	11.0	26.0	360
Jan. 22, 1974	1615	2.5	26.4	360	Aug. 28, 1974	-	10.0	24.3	360
Feb. 27, 1974	1530	3.0	26.6	360	Sept.23, 1974	1345	7.0	24.8	340
Mar. 19, 1974	1500	4.0	28.5	370					

MISCELLANEOUS ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04085200 KEWAUNEE RIVER NEAR KEWAUNEE, WIS (LAT 44 27 30 LONG 087 33 23)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 15, 1973	1215	13.0	31.2	-	Apr. 22, 1974	1315	-	117	520
Nov. 12, 1973	1345	3.5	34.3	-	May 20, 1974	1545	16.0	74.3	570
Dec. 17, 1973	1500	0.0	62.9	700	June 24, 1974	1345	18.5	55.5	-
Jan. 21, 1974	1430	0.0	76.8	680	July 22, 1974	1600	19.5	49.3	430
Feb. 26, 1974	1345	0.0	83.2	680	Aug. 21, 1974	1445	19.0	24.2	560
Mar. 18, 1974	1330	2.0	137	560					

04086000 SHEBOYGAN RIVER AT SHEBOYGAN, WIS (LAT 43 44 25 LONG 087 45 37)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1300	16.5	140	940	May 1, 1974	1200	15.5	296	560
Nov. 7, 1973	1600	2.0	197	700	June 12, 1974	1645	17.5	858	560
Dec. 19, 1973	1400	-	215	760	July 24, 1974	0945	21.5	97.4	500
Mar. 19, 1974	1300	-	886	440	Sept. 4, 1974	1015	19.0	72.7	640

04086150 MILWAUKEE RIVER AT KEWASKUM, WIS (LAT 43 31 02 LONG 088 13 24)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1045	16.0	27	700	Apr. 29, 1974	1400	18.0	159	580
Nov. 5, 1973	1500	1.5	52.6	725	June 11, 1974	1145	15.5	305	520
Dec. 8, 1973	0930	0.0	37.8	750	July 31, 1974	1400	21.5	37.9	590
Jan. 17, 1974	1315	0.0	22.3	880	Sept.10, 1974	1715	20.0	14.8	700
Mar. 6, 1974	1215	0.5	931	400					

04086200 EAST BRANCH MILWAUKEE RIVER NEAR NEW FANE, WIS (LAT 43 44 01 LONG 088 11 18)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1200	16.0	22.2	500	Mar. 20, 1974	1100	2.0	78.1	300
Nov. 6, 1973	1000	1.0	28.2	440	Apr. 29, 1974	1600	18.5	52.0	440
Dec. 18, 1973	1115	0.0	23.9	450	June 11, 1974	1300	16.0	101	460
Jan. 29, 1974	1200	1.5	46.0	480	July 31, 1974	1600	23.0	14.2	470
Mar. 6, 1974	1215	1.0	202	300	Sept.10, 1974	1400	19.5	10.4	470

04086340 NORTH BRANCH MILWAUKEE RIVER NEAR FILLMORE, WIS (LAT 43 28 58 LONG 088 03 39)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1400	15.5	62.2	850	Apr. 30, 1974	1045	16.0	152	620
Nov. 6, 1973	1200	0.5	10.3	700	June 11, 1974	1545	17.0	310	580
Dec. 18, 1973	1345	0.0	75.9	725	Aug. 13, 1974	1445	21.5	78.8	580
Mar. 6, 1974	1700	2.0	988	405	Sept.13, 1974	1145	16.5	42.4	650

04086360 MILWAUKEE RIVER AT WAUBEKA, WIS (LAT 43 28 22 LONG 087 59 23)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1515	16.0	156	925	Apr. 30, 1974	1315	15.5	515	620
Nov. 6, 1973	1415	1.0	241	700	June 12, 1974	1345	17.0	1,000	540
Dec. 18, 1973	1615	0.0	216	750	Aug. 13, 1974	1545	21.0	197	620
Mar. 5, 1974	1315	0.0	2,940	350	Sept.13, 1974	1530	17.0	112	700
Mar. 6, 1974	1700	3.0	2,980	380					

04087000 MILWAUKEE RIVER AT MILWAUKEE, WIS (LAT 43 06 00 LONG 087 54 32)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1545	16.0	267	650	Mar. 7, 1974	1245	4.0	4,510	415
Jan. 17, 1974	1745	0.0	273	850	Sept.25, 1974	1445	14.0	160	595
Mar. 1, 1974	1645	1.0	566	890					

04087120 MENOMONEE RIVER AT WAUWATOSA, WIS (LAT 43 02 44 LONG 087 54 32)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	0945	16.0	45.2	1,040	Mar. 1, 1974	1815	4.0	252	1,270
Nov. 24, 1973	1445	7.5	240	750	Apr. 30, 1974	1515	15.5	121	1,050
Dec. 5, 1973	0900	6.0	719	650	June 13, 1974	1030	16.5	76.9	1,090
Jan. 8, 1974	1045	2.5	46.7	3,100	Aug. 6, 1974	1400	22.0	17.6	1,150

04087204 OAK CREEK AT SOUTH MILWAUKEE, WIS (LAT 42 55 30 LONG 087 52 12)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1245	16.5	13	660	May 1, 1974	1530	15.0	18.4	1,100
Nov. 24, 1973	1300	7.0	34.4	760	June 12, 1974	1745	18.5	28.2	910
Jan. 18, 1974	1515	-	7.3	310	Aug. 29, 1974	1600	24.0	2.6	1,050
Mar. 2, 1974	1045	1.0	95.9	1,190					

04087220 ROOT RIVER NEAR FRANKLIN, WIS (LAT 42 52 25 LONG 087 59 45)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1845	17.0	30.4	900	Mar. 20, 1974	1545	4.0	62.5	1,110
Nov. 24, 1973	0955	6.0	31.4	1,160	Apr. 30, 1974	1745	16.0	70.7	900
Jan. 18, 1974	1230	0.0	14	2,800	June 12, 1974	1530	19.0	52	880
Mar. 2, 1974	1400	2.0	144	1,110	Aug. 29, 1974	1245	19.0	5.4	870

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STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04087233 ROOT RIVER CANAL NEAR FRANKLIN, WIS (LAT 42 48 55 LONG 087 59 40)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1500	17.5	21.1	850	Mar. 20, 1974	1715	4.0	78.4	680
Nov. 19, 1973	-	7.0	15.5	1,100	May 1, 1974	1100	1.0	122	580
Dec. 5, 1973	1200	5.5	398	590	June 12, 1974	1400	17.0	162	585
Jan. 18, 1974	1045	0.0	19.7	1,100	Aug. 20, 1974	1530	26.5	2.2	925

04087240 ROOT RIVER AT RACINE, WIS. (LAT 42 45 05 LONG 087 49 25)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 23, 1973	-	6.0	45.8	1,100	June 12, 1974	-	16.5	707	595
Jan. 17, 1974	-	0.0	54.2	1,100	Aug. 20, 1974	-	16.5	14.8	920
May 2, 1974	-	14.0	293	700					

04087257 PIKE RIVER NEAR RACINE, WIS (LAT 42 38 49 LONG 087 51 38)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1315	17.0	20.4	800	June 11, 1974	1700	11.5	162	630
Nov. 23, 1973	1145	6.0	13.0	920	Aug. 19, 1974	1615	23.0	4.07	520
Jan. 17, 1974	1515	0.0	13.7	-	Sept.18, 1974	1430	15.5	4.59	450
May 2, 1974	1000	10.5	53.7	740					

ST. CROIX RIVER BASIN

05333500 ST. CROIX RIVER NEAR DANBURY, WIS (LAT 46 04 28 LONG 092 14 50)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 8, 1973	1345	0.5	1,450	110	Apr. 22, 1974	1250	7.0	3,120	95
Jan. 4, 1974	1305	0.0	1,070	150	June 3, 1974	1335	17.5	1,660	100
Feb. 11, 1974	1135	0.0	959	100	July 15, 1974	1420	23.5	1,090	100
Mar. 28, 1974	1200	0.5	1,200	160	Aug. 21, 1974	1320	23.0	1,390	95

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WIS (LAT 45 24 25 LONG 092 38 49)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Dec. 12, 1973	1345	4.5	1,680	180	May 7, 1974	1500	11.5	7,600	120
Feb. 14, 1974	1110	0.0	4,670	165	June 7, 1974	1225	17.0	11,200	185

CHIPPEWA RIVER BASIN

05356000 CHIPPEWA RIVER AT BISHOPS BRIDGE NEAR WINTER, WIS (LAT 45 50 57 LONG 091 04 44)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 12, 1973	1440	16.0	3,310	60	Apr. 30, 1974	1215	14.0	153	60
Jan. 3, 1974	0945	0.0	1,220	80	June 3, 1974	1250	17.5	754	80
Feb. 6, 1974	0935	0.5	1,110	80	Sept.27, 1974	1355	16.0	370	110
Mar. 21, 1974	1350	2.5	261	120					

05356500 CHIPPEWA RIVER NEAR BRUCE, WIS (LAT 45 27 08 LONG 091 15 39)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 1, 1973	1605	7.5	1,260	95	June 13, 1974	1605	18.0	4,880	90
Jan. 7, 1974	1530	0.0	1,630	-	July 17, 1974	1200	22.0	681	100
Feb. 13, 1974	1440	0.0	1,540	130	Aug. 2, 1974	1450	22.0	790	100
Apr. 10, 1974	1230	4.0	2,090	90	Sept. 6, 1974	1310	17.0	986	100
May 7, 1974	1450	13.5	1,020	85					

05358500 FLAMBEAU RIVER AT BABBS ISLAND, NEAR WINTER, WIS (LAT 45 46 07 LONG 090 45 41)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1430	12.0	892	70	May 30, 1974	1155	16.0	988	80
Oct. 29, 1973	1255	8.5	1,090	105	June 27, 1974	1245	21.5	1,060	70
Jan. 3, 1974	1230	0.0	847	100	July 12, 1974	1610	26.0	890	105
Feb. 4, 1974	1420	0.0	635	130	Aug. 5, 1974	1345	22.5	1,060	100
Mar. 21, 1974	1110	0.0	837	140	Sept.27, 1974	1330	16.5	854	160
Apr. 30, 1974	1445	13.5	1,050	80					

05359500 SOUTH FORK FLAMBEAU RIVER NEAR PHILLIPS, WIS (LAT 45 42 08 LONG 090 36 58)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 29, 1973	1530	8.5	566	100	Apr. 30, 1974	1645	15.0	1,270	60
Jan. 3, 1974	1500	0.0	270	60	May 30, 1974	1425	16.5	472	55
Feb. 4, 1974	1215	0.0	262	120	July 12, 1974	1100	22.5	161	80
Mar. 21, 1974	1245	2.0	415	135	Sept.27, 1974	1110	13.0	306	95

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CHIPPEWA RIVER BASIN--Continued

05360500 FLAMBEAU RIVER NEAR BRUCE, WIS (LAT 45 22 21 LONG 091 12 34)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 1, 1973	1245	9.5	2,430	100	May 7, 1974	1245	15.0	1,730	70
Jan. 7, 1974	1200	0.0	869	-	June 13, 1974	1220	18.0	6,050	80
Feb. 13, 1974	1145	0.0	878	150	July 17, 1974	1445	25.5	900	95
Apr. 10, 1974	1430	5.0	1,900	125	Sept. 6, 1974	1130	17.5	1,450	100

05362000 JUMP RIVER AT SHELDON, WIS (LAT 45 18 29 LONG 090 57 23)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 25, 1973	1330	12.5	117	150	Apr. 25, 1974	1235	10.0	1,060	70
Nov. 27, 1973	1350	3.5	428	150	May 28, 1974	1215	16.0	362	80
Jan. 4, 1974	1215	0.0	89.8	140	June 25, 1974	1210	21.0	179	100
Jan. 28, 1974	1200	0.0	97.5	140	July 26, 1974	1200	23.0	175	155
Feb. 26, 1974	1410	0.0	83.0	130	Aug. 28, 1974	1300	23.0	54.6	140
Apr. 9, 1974	1535	1.5	2,210	85					

05365500 CHIPPEWA RIVER AT CHIPPEWA FALLS, WIS (LAT 44 55 35 LONG 091 24 33)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Jan. 8, 1974	1030	2.0	7,280	110	June 14, 1974	1235	18.0	14,800	100
Apr. 1, 1974	1050	2.0	7,700	120	Aug. 13, 1974	1215	21.0	8,330	120
May 6, 1974	1040	13.0	7,240	90	Sept.11, 1974	1340	17.5	8,840	140

05368000 HAY RIVER AT WHEELER, WIS (LAT 45 02 52 LONG 091 54 39)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 8, 1973	1520	1.0	221	370	May 14, 1974	1210	8.0	434	285
Jan. 11, 1974	1400	0.0	173	320	June 14, 1974	1240	20.0	345	260
Feb. 15, 1974	1355	0.0	227	310	July 22, 1974	1315	20.5	186	305
Apr. 1, 1974	1600	2.5	393	300	Sept.11, 1974	1550	16.5	236	300

05369000 RED CEDAR RIVER AT MENOMONIE, WIS (LAT 44 53 02 LONG 091 55 57)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 29, 1973	1500	3.5	2,500	180	May 9, 1974	1455	11.5	1,940	200
Jan. 8, 1974	1615	1.5	457	180	May 14, 1974	1510	11.5	2,680	165
Feb. 15, 1974	1225	1.0	2,550	170	June 13, 1974	1030	20.0	2,680	160
Apr. 1, 1974	1415	1.5	2,080	190	Aug. 1, 1974	1050	23.0	429	190

05369500 CHIPPEWA RIVER AT DURAND, WIS (LAT 44 37 40 LONG 091 58 10)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 26, 1973	1350	3.0	8,280	140	May 9, 1974	1200	11.0	8,200	140
Jan. 9, 1974	1000	0.0	6,000	100	June 11, 1974	1645	17.5	25,900	100
Feb. 21, 1974	1125	0.5	6,800	170	July 30, 1974	1105	20.5	4,740	125
Apr. 4, 1974	1100	2.0	15,900	110	Sept.10, 1974	1315	18.0	5,310	100
Apr. 18, 1974	1320	6.5	23,800	95					

05370000 EAU GALLE RIVER AT SPRING VALLEY, WIS (LAT 44 51 10 LONG 092 14 17)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 12, 1973	1430	10.0	15.7	280	June 13, 1974	1300	20.0	19.1	280
Apr. 4, 1974	1610	2.5	313	370	Aug. 1, 1974	1520	22.0	12.1	340
May 2, 1974	1240	16.5	22	300	Sept.11, 1974	1400	16.5	13.8	340

TREMPEALEAU RIVER BASIN

05379400 TREMPEALEAU RIVER AT ARCADIA, WIS (LAT 44 15 15 LONG 091 30 25)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1230	14.5	403	225	May 8, 1974	1830	10.0	444	230
Nov. 15, 1973	1350	2.5	525	240	June 11, 1974	1240	19.5	1,250	100
Jan. 9, 1974	1750	0.0	311	-	July 24, 1974	1300	23.0	298	180
Feb. 21, 1974	1400	0.5	450	220	Sept.10, 1974	0900	15.5	300	315
Apr. 2, 1974	1245	2.0	1,040	200					

05379500 TREMPEALEAU RIVER AT DODGE, WIS (LAT 44 07 55 LONG 091 33 14)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1610	15.5	493	285	May 8, 1974	1610	10.0	497	270
Nov. 15, 1973	1530	2.0	621	275	June 11, 1974	1600	20.0	1,520	140
Jan. 10, 1974	1000	0.0	360	220	July 24, 1974	1540	20.5	330	240
Apr. 3, 1974	1045	2.0	1,260	210	Sept. 9, 1974	1615	18.0	333	310

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BLACK RIVER BASIN

05381000 BLACK RIVER AT NEILLSVILLE, WIS (LAT 44 33 35 LONG 090 36 54)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1420	18.0	174	150	Mar. 13, 1974	1500	1.0	971	150
Nov. 6, 1973	1550	1.0	104	160	Apr. 30, 1974	1315	17.0	305	100
Feb. 1, 1974	1500	0.0	71.5	120	June 21, 1974	1225	22.0	226	80

05382000 BLACK RIVER NEAR GALESVILLE, WIS (LAT 44 03 42 LONG 091 17 30)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	0950	15.5	679	145	June 12, 1974	1105	17.5	7,490	70
Nov. 16, 1973	1100	3.0	995	140	June 17, 1974	1450	17.0	2,600	80
Jan. 10, 1974	1300	0.0	492	100	July 25, 1974	1200	21.5	560	100
Apr. 3, 1974	1500	1.5	4,730	120	Sept. 9, 1974	1430	18.0	441	150
May 8, 1974	1430	14.5	1,040	150					

WISCONSIN RIVER BASIN

05391000 WISCONSIN RIVER AT RAINBOW LAKE, NEAR LAKE TOMAHAWK, WIS (LAT 45 49 58 LONG 089 32 51)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 16, 1973	1315	12.0	858	70	May 17, 1974	1430	11.0	326	50
Nov. 29, 1973	1135	0.5	657	-	July 12, 1974	1220	22.5	728	60
Jan. 25, 1974	1410	1.0	629	-	Sept.17, 1974	1135	14.5	512	75
Apr. 5, 1974	1305	3.5	381	85					

05393500 SPIRIT RIVER AT SPIRIT FALLS, WIS (LAT 45 26 58 LONG 089 58 47)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 1, 1973	1545	14.5	52.2	120	May 10, 1974	1035	9.5	34.8	90
Nov. 2, 1973	1420	4.5	62.1	80	June 24, 1974	1115	15.0	34.1	75
Jan. 14, 1974	1205	0.0	11.5	150	July 30, 1974	1300	18.5	16.8	100
Mar. 6, 1974	1255	0.5	76.9	160	Sept.11, 1974	1045	15.0	461	75
Apr. 9, 1974	1500	1.0	276	70					

05394500 PRAIRIE RIVER NEAR MERRILL, WIS (LAT 45 14 09 LONG 089 38 59)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 2, 1973	1215	5.5	167	150	May 1, 1974	1105	11.5	184	160
Dec. 13, 1973	1430	0.0	118	200	June 17, 1974	1410	12.0	180	135
Jan. 22, 1974	1510	0.0	104	240	July 30, 1974	1400	16.0	90	180
Mar. 7, 1974	1335	1.0	162	200	Sept. 6, 1974	1430	14.0	75	220
Apr. 2, 1974	1345	1.5	107	200					

05395000 WISCONSIN RIVER AT MERRILL, WIS (LAT 45 10 41 LONG 089 40 52)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 5, 1973	1400	17.0	1,940	150	Apr. 2, 1974	1430	3.0	1,940	100
Nov. 8, 1973	1530	1.0	2,640	150	May 7, 1974	1610	14.0	1,610	120
Dec. 19, 1973	1450	0.5	1,950	140	June 21, 1974	1130	16.5	1,550	120
Jan. 24, 1974	1530	1.0	2,080	140	Aug. 6, 1974	1500	22.0	2,100	100
Mar. 5, 1974	1400	4.0	2,200	200	Sept.24, 1974	1500	10.5	1,560	140

05397500 EAU CLAIRE RIVER AT KELLY, WIS (LAT 44 55 06 LONG 089 33 00)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 4, 1973	1250	16.0	121	270	Apr. 8, 1974	1435	2.0	854	140
Nov. 1, 1973	1350	7.0	137	215	May 21, 1974	1200	16.5	157	165
Dec. 18, 1973	1230	0.0	89.7	120	July 1, 1974	1520	24.0	961	190
Jan. 24, 1974	1340	0.0	95.0	360	Aug. 1, 1974	1230	17.5	88.6	190
Feb. 20, 1974	1330	0.0	83.9	320	Sept. 3, 1974	1515	16.5	70.5	390

05398000 WISCONSIN RIVER AT ROTHSCHILD, WIS (LAT 44 53 09 LONG 089 38 05)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 4, 1973	1440	17.0	2,110	200	May 29, 1974	1520	17.0	2,420	180
Nov. 1, 1973	1210	5.5	3,280	190	June 27, 1974	1625	20.0	2,260	280
Apr. 8, 1974	1505	1.5	6,150	100	Sept. 3, 1974	1530	19.5	2,480	170

05399500 BIG EAU PLEINE RIVER NEAR STRATFORD, WIS (LAT 44 49 19 LONG 090 04 46)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 5, 1973	1130	15.0	5.12	240	Apr. 26, 1974	1415	15.5	50.4	140
Nov. 11, 1973	1200	1.5	9.69	240	June 11, 1974	1550	16.5	654	100
Jan. 31, 1974	1250	0.0	8.45	320	Aug. 1, 1974	1340	24.5	3.51	200
Mar. 12, 1974	1045	0.5	449	150	Sept. 4, 1974	1530	19.5	2.28	230

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WISCONSIN RIVER BASIN--Continued

05400600 LITTLE PLOVER RIVER NEAR ARNOTT, WIS (LAT 44 28 05 LONG 089 29 20)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1155	12.5	6.98	380	May 31, 1974	1050	12.0	7.60	300
Nov. 5, 1973	1225	5.0	6.22	300	July 9, 1974	1425	19.0	4.52	380
Jan. 15, 1974	1135	1.0	4.92	360	Aug. 5, 1974	1430	13.0	3.64	300
Feb. 21, 1974	1110	3.5	5.16	420	Sept. 4, 1974	1400	16.0	3.76	-
Apr. 15, 1974	1650	11.0	12.0	300					

05400650 LITTLE PLOVER RIVER AT PLOVER, WIS (LAT 44 28 26 LONG 089 31 44)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1100	12.5	13.2	360	May 31, 1974	1010	10.0	19.2	300
Nov. 5, 1973	1400	4.5	12.7	300	July 9, 1974	1200	16.0	10.3	320
Jan. 15, 1974	1040	1.0	8.9	360	Aug. 5, 1974	1200	13.5	8.52	300
Feb. 21, 1974	1030	3.5	9.4	400	Sept. 4, 1974	1220	10.5	7.24	300
Apr. 15, 1974	1755	11.5	22.3	280					

05401050 TENMILE CREEK NEAR NEKOOSA, WIS (LAT 44 15 44 LONG 089 48 38)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1030	13.0	45.3	260	Apr. 16, 1974	1605	9.0	202	270
Nov. 6, 1973	1125	2.0	34.5	180	May 1, 1974	1115	11.5	91.0	290
Jan. 15, 1974	1405	1.0	30.7	330	July 8, 1974	1540	22.5	54.4	300
Mar. 5, 1974	1420	1.5	62.9	250	Sept. 5, 1974	1130	15.5	29.6	300

05401100 FOURTEENMILE CREEK NEAR NEW ROME, WIS (LAT 44 12 15 LONG 089 48 29)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1650	16.5	13.5	340	Apr. 16, 1974	1300	5.5	172	260
Nov. 6, 1973	0930	6.0	27.1	290	May 31, 1974	1400	18.0	56.2	320
Jan. 15, 1974	1315	1.0	19.3	500	July 8, 1974	1400	24.0	27.3	340
Mar. 5, 1974	1330	2.0	17.3	440	Sept. 4, 1974	1510	19.0	5.72	360

05401535 BIG ROCHE A CRI CREEK NEAR ADAMS, WIS (LAT 44 05 52 LONG 089 46 30)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 2, 1973	1540	16.5	48.1	280	May 1, 1974	0945	12.0	81.8	240
Nov. 5, 1973	1705	1.5	49.5	200	July 8, 1974	1210	19.0	71.3	240
Jan. 15, 1974	1120	0.5	52.6	280	Sept. 5, 1974	1115	13.0	41.7	240
Mar. 5, 1974	1140	1.5	84.3	200					

05402000 YELLOW RIVER AT BABCOCK, WIS (LAT 44 18 05 LONG 090 07 15)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1150	15.0	9.2	150	Apr. 30, 1974	1555	16.5	65.8	100
Nov. 16, 1973	1345	1.5	19.0	180	July 12, 1974	1130	18.5	15.3	120
Feb. 1, 1974	1205	0.0	9.73	-	Aug. 12, 1974	1400	19.0	5.95	120
Mar. 13, 1974	1200	1.5	254	-	Sept. 5, 1974	1600	14.0	10.0	105

05403500 LEMONWEIR RIVER AT NEW LISBON, WIS (LAT 43 52 47 LONG 090 09 40)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 3, 1973	1630	17.0	375	165	Apr. 17, 1974	1715	11.0	1,570	115
Nov. 6, 1973	1500	3.0	346	145	June 12, 1974	1200	17.0	1,570	80
Dec. 19, 1973	1515	0.0	275	145	July 23, 1974	1845	23.5	135	160
Jan. 30, 1974	1115	1.0	259	160	Sept.10, 1974	1100	17.5	104	155
Mar. 13, 1974	1715	4.0	870	-					

05403630 HULBURT CREEK NEAR WISCONSIN DELLS, WIS (LAT 43 37 37 LONG 089 48 36)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 4, 1973	0845	14.0	17.5	120	Mar. 13, 1974	1425	2.5	6.06	90
Nov. 7, 1973	1235	2.5	4.52	120	Apr. 17, 1974	1400	10.5	9.45	105
Dec. 19, 1973	0945	0.5	4.46	71	June 13, 1974	1300	16.0	6.25	100
Jan. 15, 1974	1320	1.0	4.32	-	July 23, 1974	1525	20.0	3.71	100
Jan. 29, 1974	1320	2.0	5.04	95	Sept.10, 1974	1805	18.0	3.67	120

05404000 WISCONSIN RIVER NEAR WISCONSIN DELLS, WIS (LAT 43 36 22 LONG 089 45 25)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 4, 1973	1600	16.5	6,100	185	June 13, 1974	1045	19.5	17,500	160
Nov. 7, 1973	1700	5.0	5,690	195	July 23, 1974	1300	25.0	4,000	140
Mar. 12, 1974	1730	3.5	8,760	-	Sept.10, 1974	1600	21.0	4,140	175
Apr. 24, 1974	1300	8.0	10,200	180					

MISCELLANEOUS ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05405000 BARABOO RIVER NEAR BARABOO, WIS (LAT 43 28 51 LONG 089 38 09)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 5, 1973	1130	14.0	512	380	Mar. 12, 1974	1130	3.0	916	265
Nov. 8, 1973	1530	3.0	292	405	Apr. 16, 1974	1215	10.5	1,810	195
Dec. 18, 1973	1230	0.5	276	200	June 14, 1974	1200	19.5	542	320
Jan. 28, 1974	1615	1.0	534	320	Sept.11, 1974	1500	20.0	216	365

05406500 BLACK EARTH CREEK AT BLACK EARTH, WIS (LAT 43 08 03 LONG 089 43 56)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 10, 1973	1230	15.0	41.0	575	Apr. 19, 1974	1330	10.5	48.8	575
Nov. 9, 1973	0915	2.5	33.1	500	June 17, 1974	1015	11.0	57.7	545
Dec. 12, 1973	1200	3.5	38.7	-	Aug. 6, 1974	1430	18.0	42.1	300
Jan. 28, 1974	1000	1.5	57.9	375	Sept.17, 1974	1430	15.5	38.2	555
Mar. 19, 1974	1430	7.5	42.2	555					

05406640 OTTER CREEK NEAR HIGHLAND, WIS (LAT 43 01 40 LONG 090 16 40)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 17, 1973	0945	15.0	8.0	480	Apr. 8, 1974	1045	4.0	10.6	-
Dec. 3, 1973	1200	5.0	7.44	500	May 21, 1974	0915	15.0	18.5	460
Jan. 17, 1974	1245	4.0	5.69	550	Aug. 21, 1974	1600	21.5	7.53	320
Feb. 28, 1974	1315	2.0	8.49	520					

05407000 WISCONSIN RIVER AT MUSCODA, WIS (LAT 43 11 54 LONG 090 26 26)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Nov. 13, 1973	1515	6.5	7,080	180	June 7, 1974	1415	19.5	8,840	170
Mar. 7, 1974	1315	4.0	14,100	200	July 18, 1974	1300	25.0	5,990	240
Apr. 11, 1974	-	7.5	16,500	-					

05410000 KICKAPOO RIVER AT GAYS MILLS, WIS (LAT 43 19 10 LONG 090 51 08)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 15, 1973	1330	13.5	524	460	Apr. 15, 1974	1545	9.0	1,228	495
Nov. 28, 1973	1145	5.5	506	460	May 21, 1974	1545	18.5	625	465
Jan. 14, 1974	1630	0.0	386	420	July 8, 1974	1215	21.5	444	480
Feb. 25, 1974	1445	-	449	470	Aug. 19, 1974	1415	20.0	365	370

05410500 KICKAPOO RIVER AT STEUBEN, WIS (LAT 43 11 27 LONG 090 52 28)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 15, 1973	1645	14.0	585	420	May 22, 1974	0900	17.5	683	430
Nov. 28, 1973	1600	4.5	594	460	July 8, 1974	1745	24.0	461	500
Jan. 14, 1974	1300	-	405	460	Aug. 19, 1974	1145	19.5	450	300
Apr. 16, 1974	1030	9.0	1,234	350					

GRANT RIVER BASIN

05413500 GRANT RIVER AT BURTON, WIS (LAT 42 43 13 LONG 090 49 09)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 16, 1973	1130	10.5	178	570	Apr. 16, 1974	1545	12.5	341	530
Nov. 7, 1973	1100	6.0	186	-	May 16, 1974	0945	10.0	250	-
Nov. 29, 1973	1130	3.5	163	580	May 22, 1974	1415	21.0	457	450
Jan. 15, 1974	1130	0.0	157	540	Aug. 20, 1974	0945	21.0	152	480
Mar. 6, 1974	0945	4.5	285	-					

PLATTE RIVER BASIN

05414000 PLATTE RIVER NEAR ROCKVILLE, WIS (LAT 42 43 52 LONG 090 38 25)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 16, 1973	1315	10.5	102	600	Mar. 6, 1974	1200	5.0	174	-
Nov. 7, 1973	0900	11.0	89.7	-	Apr. 18, 1974	1745	14.0	175	510
Nov. 29, 1973	1415	3.5	88.0	590	May 22, 1974	1715	21.0	216	485
Jan. 5, 1974	1430	0.0	74.4	485	June 21, 1974	1600	20.5	736	280
Feb. 26, 1974	1315	0.0	96.8	600	Aug. 6, 1974	1000	22.5	111	-

GALENA RIVER BASIN

05415000 GALENA RIVER AT BUNCOMBE, WIS (LAT 42 30 49 LONG 090 22 40)

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
Oct. 18, 1973	1415	10.5	72.2	840	Apr. 8, 1974	1600	9.5	80.5	710
Dec. 4, 1973	1100	4.0	76.4	850	May 23, 1974	0930	16.0	241	640
Jan. 15, 1974	1715	0.0	61.0	760	Aug. 20, 1974	1215	21.5	78.6	500
Feb. 26, 1974	1630	0.0	98.0	800					

MISCELLANEOUS ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance	Date	Time	Water temperature (°C)	Discharge (cfs)	Specific conductance
ROCK RIVER BASIN									
05426000 CRAWFISH RIVER AT MILFORD, WIS (LAT 43 06 00 LONG 088 50 58)									
Oct. 1, 1973	1045	16.0	161	455	Apr. 25, 1974	1100	9.0	1,710	-
Nov. 1, 1973	1200	7.5	234	320	June 10, 1974	1045	19.5	863	520
Dec. 17, 1973	1000	0.0	324	440	July 23, 1974	1200	22.5	173	600
Jan. 28, 1974	1330	1.0	635	450	Sept. 3, 1974	0945	16.0	143	600
Mar. 21, 1974	1315	3.0	1,920	520					
05429500 YAHARA RIVER NEAR MC FARLAND, WIS (LAT 43 00 32 LONG 089 18 18)									
Oct. 10, 1973	1130	17.5	196	395	Apr. 9, 1974	1155	4.5	476	440
Oct. 31, 1973	1100	11.0	208	435	May 23, 1974	1330	12.2	428	500
Dec. 11, 1973	1530	1.0	174	400	June 14, 1974	1200	20.0	229	430
Jan. 8, 1974	0915	-	136	500	July 8, 1974	1145	21.0	244	360
Jan. 25, 1974	1515	3.5	206	440	July 30, 1974	1545	22.0	217	420
Feb. 12, 1974	1445	2.5	259	480	Aug. 22, 1974	1600	20.0	109	450
Mar. 14, 1974	1145	4.0	425	425	Sept.16, 1974	1515	21.5	61.2	380
05430500 ROCK RIVER AT AFTON, WIS (LAT 42 36 33 LONG 089 04 14)									
Oct. 4, 1973	1545	15.5	2,270	560	July 22, 1974	1045	21.5	1,610	350
Nov. 17, 1973	1300	4.5	1,580	660	Aug. 21, 1974	1200	22.0	1,330	600
Jan. 15, 1974	1315	1.0	1,370	800	Sept.26, 1974	1345	15.0	699	750
Mar. 25, 1974	1415	0.0	6,370	490					
05431500 TURTLE CREEK NEAR CLINTON, WIS (LAT 42 35 47 LONG 088 51 50)									
Oct. 4, 1973	1145	16.0	563	560	June 12, 1974	1615	18.5	409	400
Nov. 17, 1973	1545	5.5	231	630	June 21, 1974	1245	17.5	997	355
Dec. 6, 1973	1415	2.5	433	560	July 22, 1974	1400	19.0	326	540
Jan. 15, 1974	1545	0.0	195	700	Aug. 21, 1974	1500	20.0	126	650
Mar. 4, 1974	1420	3.0	1,300	340	Aug. 26, 1974	1045	13.0	136	650
Apr. 30, 1974	1315	14.5	421	800					
05432500 PECATONICA RIVER AT DARLINGTON, WIS (LAT 42 40 40 LONG 090 07 07)									
Oct. 17, 1973	1145	10.5	145	600	Apr. 9, 1974	1215	7.0	169	570
Nov. 30, 1973	1200	3.0	136	660	May 23, 1974	1300	18.5	431	450
Jan. 17, 1974	1030	0.0	115	620	Aug. 21, 1974	0930	17.5	158	460
Feb. 28, 1974	0930	0.0	164	600					
05433000 EAST BRANCH PECATONICA RIVER NEAR BLANCHARDVILLE, WIS (LAT 42 47 10 LONG 089 51 40)									
Oct. 17, 1973	1415	10.5	126	520	Feb. 27, 1974	1645	0.0	136	580
Nov. 30, 1973	0945	3.0	130	540	Apr. 9, 1974	1000	7.0	170	570
Jan. 16, 1974	1800	0.0	116	430	Aug. 21, 1974	0100	19.5	141	370
05434500 PECATONICA RIVER AT MARTINTOWN, WIS (LAT 42 30 34 LONG 089 47 58)									
Nov. 30, 1973	1445	4.5	682	610	Apr. 10, 1974	1100	7.5	810	-
Jan. 16, 1974	1300	0.0	513	570	Aug. 22, 1974	1000	21.0	664	460
05436500 SUGAR RIVER NEAR BRODHEAD, WIS (LAT 42 36 42 LONG 089 23 53)									
Oct. 19, 1973	1030	9.5	349	540	Apr. 9, 1974	1530	7.0	519	490
Dec. 4, 1973	1700	5.0	413	650	Aug. 22, 1974	1300	22.5	305	420
Feb. 27, 1974	1215	0.0	453	540					
ILLINOIS RIVER BASIN									
05543830 FOX RIVER AT WAUKESHA, WIS (LAT 43 00 17 LONG 088 14 37)									
Oct. 2, 1973	1200	14.5	67.0	840	Apr. 30, 1974	1300	16.0	201	760
Nov. 19, 1973	1115	6.0	56.1	1,100	June 13, 1974	1230	19.0	126	790
Dec. 5, 1973	1700	3.0	290	-	Aug. 7, 1974	1445	23.0	28.4	900
Jan. 18, 1974	1300	1.0	67.0	940	Sept.11, 1974	1200	19.5	26.2	950
Mar. 7, 1974	1630	7.0	731	560					
05546500 FOX RIVER AT WILMOT, WIS (LAT 42 30 40 LONG 088 10 45)									
Mar. 21, 1974	1515	3.5	1,720	630					

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE SUPERIOR

04024430 - NEMADJI RIVER NR. SOUTH SUPERIOR, WIS. (LAT 46 38 00 LONG 092 05 38)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
13...	1230	--	153	19	7.8
21...	1425	--	3050	2440	20100
DEC.					
04...	1540	--	300	22	18
14...	1110	--	200	15	8.4
28...	1315	--	124	15	5.2
JAN., 1974					
23...	1430	--	82	13	2.9
FEB.					
08...	1120	--	79	10	2.3
MAR.					
28...	1000	--	85	7	1.6

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
APR., 1974							
22...	1725	3000	527	4270	33	40	51

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
APR., 1974							
22...	61	70	75	76	80	85	100

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUNE, 1974							
03...	1610	362	0	4	16	36	100

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

04025500 - BOIS BRULE RIVER AT BRULE, WIS. (LAT 46 32 16 LONG 091 35 43)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB., 1974					
08...	0850	--	376	4	4.1
MAR.					
27...	1700	--	137	2	.92
APR.					
01...	1125	--	143	3	1.2
08...	0825	--	137	4	1.5
16...	0825	--	283	15	12
17...	1610	--	374	45	46
22...	0835	--	347	19	18
29...	0812	--	275	12	8.9
MAY					
02...	1230	--	230	4	2.8
06...	1035	--	242	9	6.2
13...	0845	--	263	14	9.9
20...	0940	--	216	9	5.5
28...	0820	--	198	10	5.3
JUNE					
03...	1020	--	198	11	5.9
04...	1135	--	202	10	5.5
10...	0825	--	462	61	77
17...	1020	--	255	11	7.6
JULY					
17...	0940	--	150	4	1.6
AUG.					
22...	1015	--	155	12	5.0
22...	1215	--	138	6	2.2

DATE	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUNE, 1974											
04...	174	0	2	7	11	13	14	17	20	27	63

04026005 - BOIS BRULE RIVER NR. LAKE SUPERIOR, WIS. (LAT 46 42 20 LONG 091 36 07)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
09...	1450	--	189	3	1.5
DEC.					
28...	1040	--	191	3	1.5
FEB., 1974					
07...	1615	--	174	18	8.5
MAR.					
27...	1535	--	183	38	19
MAY					
02...	1120	--	285	23	18
JUNE					
04...	0900	--	234	18	11
JULY					
16...	1730	--	155	4	1.7

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

04026005 - BOIS BRULE RIVER NR. LAKE SUPERIOR, WIS.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUNE, 1974												
04...	0900	234	7	14	25	28	29	29	29	31	37	88

04026450 - BAD RIVER NR. MELLEN, WIS. (LAT 46 16 14 LONG 090 42 26)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JUNE, 1974									
04...	1100	66	3	44	83	88	93	96	100

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
04026870 - ALDER CREEK NR. UPSON, WIS. (LAT 46 23 09 LONG 090 24 30)					
NOV., 1973					
13...	1610	--	11	1	.03
DEC.					
26...	1700	--	7.2	1	.02
FEB., 1974					
06...	1530	--	6.3	4	.07
MAR.					
26...	1730	--	5.8	4	.06
APR.					
15...	1640	--	216	15	8.7
MAY					
01...	1045	--	25	22	1.5
JUNE					
04...	0830	--	15	0	.00
JULY					
22...	1730	--	9.2	0	.00
23...	1030	--	1.2	43	.14
AUG.					
21...	1720	--	6.1	0	.00

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUNE, 1974												
04...	0830	15	0	0	2	14	17	18	18	19	22	22

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued					
04027000 - BAD RIVER NR. ODANAH, WIS. (LAT 46 29 15 LONG 090 41 45)					
OCT., 1973					
06...	0925	--	268	6	4.3
NOV.					
03...	1030	--	406	10	11
DEC.					
04...	1240	--	385	40	42
22...	1045	--	265	4	2.9
27...	0930	--	485	5	6.5
JAN., 1974					
22...	1317	--	570	16	25
FEB.					
07...	0915	--	525	9	13
MAR.					
27...	1030	--	415	7	7.8
MAY					
01...	1458	--	1000	35	94
07...	1520	--	748	18	36
17...	1828	--	890	23	55
24...	1304	--	545	20	29
JUNE					
05...	1130	--	362	10	9.8
30...	1222	--	371	7	7.0
JULY					
14...	1256	--	130	12	4.2
AUG.					
04...	1641	--	1550	193	808
17...	1347	--	926	7	18
23...	1145	--	219	5	3.0

DATE	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
JUNE, 1974								
05...	356	2	4	14	87	98	99	100

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
04027500 - WHITE RIVER NR. ASHLAND, WIS. (LAT 46 29 50 LONG 090 54 15)					
AUG., 1974					
22...	1200	--	224	9810	5930
STREAMS TRIBUTARY TO LAKE MICHIGAN					
04071000 - OCONTO RIVER NR. GILLETT, WIS. (LAT 44 51 53 LONG 088 18 00)					
OCT., 1973					
29...	1400	--	795	11	24
NOV.					
29...	1035	--	794	9	19
JAN., 1974					
10...	1105	--	1230	4	13
FEB.					
26...	1230	--	1140	0	.00
APR.					
15...	1420	--	2050	31	172
MAY					
29...	1315	--	583	5	7.9
JUNE					
25...	1430	--	585	14	22
JULY					
29...	1255	--	350	4	3.8
AUG.					
29...	1310	--	595	9	14
SEP.					
27...	1300	--	382	2	2.1

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04071858 - PENSAUKEE RIVER NR. PENSAUKEE, WIS. (LAT 44 49 09 LONG 087 57 15)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
06...	1005	--	15	1	.04
11...	1600	18.5	26	2	.14
13...	1032	--	22	3	.18
20...	0915	--	14	3	.11
28...	0800	--	101	18	4.9
NOV.					
03...	1445	--	48	2	.26
15...	--	14.0	29	15	1.2
15...	1445	--	29	6	.47
17...	0945	--	29	3	.23
24...	0958	--	280	2	1.5
DEC.					
01...	1320	--	21	1	.06
08...	1035	--	98	2	.53
FEB., 1974					
26...	1445	--	90	20	4.9
MAR.					
23...	1545	--	41	0	.00
30...	1000	--	23	0	.00
APR.					
03...	1250	--	64	34	6.0
04...	1115	--	120	192	62
06...	0920	--	492	42	56
13...	0820	--	600	31	50
15...	1715	--	840	56	128
20...	1320	--	208	7	4.2
27...	1350	--	89	4	.96
MAY					
04...	1143	--	235	1	.95
11...	1540	--	100	3	.81
18...	1240	--	85	4	.92
25...	1040	--	66	4	.71
JUNE					
04...	1215	--	27	7	.51
10...	1445	--	217	46	27
14...	1500	--	153	19	8.1
17...	0910	--	226	30	18
22...	1425	--	61	11	1.8
30...	1410	--	26	159	11
JULY					
08...	0900	--	30	24	1.9
13...	0930	--	14	16	.60
20...	1000	--	9.3	28	.70
27...	1230	--	36	6	.58
AUG.					
03...	1202	--	12	7	.23
10...	1630	--	11	19	.56
18...	1620	--	15	6	.24
24...	1500	--	83	15	3.4
29...	0920	--	15	7	.28
31...	1400	--	13	9	.32
SEP.					
07...	1525	--	8.4	9	.20
15...	1450	--	11	1	.03
21...	1300	--	6.5	5	.09
28...	1205	--	7.8	7	.15

DATE	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
NOV., 1973											
15...	29	1	2	3	76	89	91	92	92	95	100

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04073050 - GRAND RIVER NR. KINGSTON, WIS. (LAT 43 41 09 LONG 089 05 09)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
05...	0900	13.0	58	13	2.0
NOV.					
09...	1030	.0	28	36	2.7
FEB., 1974					
01...	1630	--	68	48	8.8
MAR.					
04...	1445	--	434	59	69
MAY					
03...	0740	--	68	56	10
JUNE					
14...	1010	--	135	68	25
JULY					
25...	1600	--	54	38	5.5
SEP.					
05...	1225	--	21	24	1.4

04078500 - EMBARRASS RIVER NR. EMBARRASS, WIS. (LAT 44 43 29 LONG 088 44 10)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
16...	1120	--	226	2	1.2
JAN., 1974					
11...	1405	--	314	2	1.7
FEB.					
25...	1545	--	304	14	11
APR.					
13...	1430	--	1760	129	613
MAY					
29...	1540	--	267	3	2.5
JUNE					
25...	1100	--	147	9	3.8
AUG.					
07...	1050	--	135	0	.00
SEP.					
10...	1215	--	96	5	1.3

04079000 - WOLF RIVER AT NEW LONDON, WIS (LAT 44 23 30 LONG 088 44 25)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
20...	1200	--	1500	10	40

04079602 - LITTLE WOLF NR GALLOWAY, WIS. (LAT 44 41 27 LONG 089 15 51)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
20...	1600	--	13	5	.18
APR., 1974					
15...	1100	--	91	0	.00

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04085200 - KEWAUNEE RIVER NR. KEWAUNEE, WIS. (LAT 44 27 42 LONG 087 32 40)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	0900	--	28	14	1.1
06...	0900	--	28	24	1.9
13...	0900	--	38	43	4.5
20...	0900	--	25	33	2.2
30...	1600	--	112	13	3.9
NOV.					
10...	0900	--	30	18	1.5
17...	1615	--	48	57	7.4
18...	1000	--	52	61	8.6
25...	0900	--	48	29	3.8
25...	1000	--	48	11	1.4
DEC.					
01...	1000	--	48	12	1.6
01...	1300	--	48	15	1.9
08...	1000	--	66	20	3.6
MAR., 1974					
04...	1600	--	1760	108	511
05...	1600	--	805	56	122
06...	1600	--	865	62	145
07...	1600	--	727	35	70
10...	1100	--	369	12	12
16...	1600	--	152	4	1.6
APR.					
05...	1600	--	323	18	16
12...	1600	--	323	24	21
15...	1600	--	889	129	310
19...	1600	--	174	7	3.3
25...	1600	--	84	6	1.4
MAY					
03...	1600	--	69	2	.37
10...	1600	--	65	17	3.0
14...	1600	--	565	98	149
15...	1600	--	380	77	80
16...	1600	--	222	21	13
22...	1600	--	214	71	41
31...	1600	--	50	51	6.9
JUNE					
07...	1600	--	42	23	2.6
09...	1900	--	444	172	206
10...	1800	--	1370	218	806
11...	1600	--	640	61	105
12...	1600	--	245	40	27
17...	1600	--	480	89	116
21...	1600	--	92	27	6.7
28...	1600	--	42	43	4.9
JULY					
06...	1600	--	69	34	6.3
19...	1600	--	24	45	2.9
26...	1600	--	75	21	4.3
AUG.					
10...	0800	--	24	12	.81
16...	1600	--	41	10	1.1
23...	1610	--	23	30	1.9
31...	1600	--	23	8	.50
SEP.					
07...	1300	--	19	8	.41
14...	1600	--	34	7	.64
21...	1600	--	24	6	.39
28...	1600	--	22	4	.24

04085281 - EAST BRANCH TWIN RIVER AT MISHICOT, WIS. (LAT 44 14 16 LONG 087 38 11)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
04...	0915	--	51	13	1.8
NOV.					
08...	1300	--	52	5	.70
JAN., 1974					
31...	1400	--	180	15	7.3
MAR.					
04...	2050	--	1030	37	103
05...	1100	--	882	29	69
MAY					
02...	1240	--	59	48	7.6
JUNE					
13...	1310	--	140	12	4.7
JULY					
24...	1620	--	20	13	.73
SEP.					
04...	1525	--	11	28	.84

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04085427 - MANITOWOC RIVER NR. MANITOWOC, WIS. (LAT 44 06 26 LONG 087 42 56)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	1530	--	58	4	.63
NOV.					
08...	1100	--	127	8	2.7
JAN., 1974					
03...	1110	--	220	14	8.3
MAR.					
05...	1530	--	2480	210	1410
JUNE					
13...	1015	--	712	50	96
JULY					
24...	1430	--	61	13	2.1
SEP.					
04...	1310	--	33	10	.89

04086150 - MILWAUKEE RIVER AT KEWASKUM, WIS. (LAT 43 31 02 LONG 088 13 22)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	0830	--	27	9	.66
16...	1015	--	46	59	7.3
22...	1045	--	27	98	7.1
NOV.					
01...	1030	--	94	35	8.9
06...	0830	--	44	65	7.7
15...	0940	--	44	50	5.9
21...	1315	--	57	74	11
28...	1015	--	57	40	6.2
DEC.					
06...	0730	--	138	13	4.8
12...	0930	--	21	12	.68
20...	1310	--	35	12	1.1
28...	1544	--	82	57	13
JAN., 1974					
04...	1237	--	25	49	3.3
17...	1315	.0	23	8	.50
MAR.					
01...	1500	--	72	30	5.8
06...	1230	--	979	15	40
08...	1345	--	860	23	53
15...	1300	--	260	4	3.2
22...	1330	--	182	28	14
30...	1940	--	139	5	1.9
APR.					
05...	0845	--	371	6	6.0
13...	0730	--	245	12	8.3
19...	1430	--	298	13	10
27...	0920	--	182	43	21
29...	1400	--	157	6	2.8
MAY					
06...	0815	--	114	26	8.2
11...	0945	--	129	48	17
18...	1030	--	286	39	31
24...	1350	--	111	50	15
31...	1930	--	71	25	4.8
JUNE					
08...	1930	--	58	30	4.8
11...	1130	--	298	40	33
17...	1925	--	151	24	9.8
22...	1958	--	117	10	3.3
28...	1937	--	51	15	2.1
JULY					
05...	0725	--	44	30	3.6
19...	0738	--	29	37	3.0
26...	0740	--	76	7	1.4
31...	1320	--	38	20	2.1
AUG.					
02...	0725	--	32	13	1.1
12...	0845	--	52	14	2.0
16...	0728	--	25	8	.58
23...	0725	--	22	12	.71
30...	0740	--	27	10	.75
SEP.					
06...	0725	--	19	9	.49
10...	1515	--	16	33	1.4
13...	0725	--	19	24	1.2
20...	0735	--	14	16	.60
27...	0947	--	15	70	2.8

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04086200 - E. BR. MILWAUKEE RIVER NR. NEW FANE, WIS. (LAT 43 33 01 LONG 088 11 18)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	1150	--	22	5	.30
17...	1820	--	16	4	.17
24...	1616	--	13	2	.07
31...	1647	--	35	6	.57
NOV.					
07...	1428	--	25	4	.27
14...	1614	--	19	2	.10
21...	1710	--	28	8	.60
28...	1544	--	29	2	.16
DEC.					
05...	1459	--	56	8	1.2
12...	1539	--	30	86	7.0
19...	1456	--	21	5	.28
26...	0930	--	66	2	.36
JAN., 1974					
02...	1532	--	29	2	.16
29...	1100	--	46	5	.62
30...	1512	--	44	7	.83
FEB.					
06...	1050	--	34	20	1.8
06...	1312	--	34	17	1.6
MAR.					
20...	1455	--	78	0	.00
27...	1546	--	39	0	.00
APR.					
03...	1505	--	80	1	.22
10...	0947	--	86	1	.23
17...	1537	--	130	3	1.1
23...	1600	--	79	0	.00
29...	1540	--	52	20	2.8
MAY					
01...	1611	--	48	7	.91
08...	1557	--	38	8	.82
15...	1115	--	74	10	2.0
22...	1518	--	69	12	2.2
29...	1607	--	39	15	1.6
JUNE					
05...	1645	--	38	14	1.4
11...	1250	--	101	10	2.7
12...	0820	--	116	89	28
19...	1357	--	80	53	11
26...	1545	--	34	17	1.6
JULY					
03...	1547	--	25	27	1.8
10...	1423	--	22	10	.59
13...	1610	--	13	1	.04
17...	1554	--	13	7	.25
24...	1416	--	12	9	.29
31...	1510	--	10	7	.19
AUG.					
01...	0642	--	12	8	.26
07...	1610	--	15	5	.20
21...	1524	--	17	8	.37
28...	1415	--	16	3	.13
SEP.					
04...	1641	--	11	4	.12
10...	1220	--	11	8	.24
11...	1616	--	12	3	.10
25...	1647	--	13	2	.07

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04086340 - N. BR. MILWAUKEE RIVER NR FILLMORE, WIS. (LAT 43 28 58 LONG 088 03 39)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
07...	1340	--	66	11	2.0
NOV.					
06...	1145	--	103	28	7.8
FEB., 1974					
13...	1511	--	110	5	1.5
20...	1457	--	110	119	35
27...	1538	--	100	8	2.2
MAR.					
06...	1710	2.0	988	6	16
13...	1501	--	386	2	2.1
APR.					
30...	1030	--	149	36	14
JUNE					
11...	1530	--	305	8	7.0
AUG.					
13...	1400	--	77	39	8.1
SEP.					
13...	1120	--	40	65	7.0

04086360 - MILWAUKEE RIVER AT WAUBEKA, WIS. (LAT 43 28 22 LONG 087 59 23)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR., 1974					
05...	1315	--	2940	71	564

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04086500 - CEDAR CREEK NR. CEDARBURG, WIS. (LAT 43 19 45 LONG 087 58 50)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	1030	--	54	29	4.2
13...	1830	--	193	84	44
22...	1555	--	52	12	1.7
NOV.					
03...	1630	--	107	5	1.4
07...	1100	--	82	6	1.3
11...	1025	--	67	5	.90
17...	1630	--	92	3	.75
22...	1000	--	95	11	2.8
25...	1235	--	109	12	3.5
DEC.					
01...	1609	--	110	3	.89
06...	1710	--	373	24	24
09...	1410	--	150	5	2.0
FEB., 1974					
10...	1628	--	140	4	1.5
17...	1710	--	130	3	1.1
23...	1625	--	150	3	1.2
MAR.					
02...	1545	--	200	7	3.8
04...	1610	--	1850	99	495
05...	1740	--	1530	198	818
07...	1200	--	795	10	21
09...	1030	--	596	14	23
13...	1905	--	248	5	3.3
16...	1130	--	198	10	5.3
23...	1045	--	119	11	3.5
31...	1510	--	362	31	30
APR.					
03...	1910	--	278	16	12
06...	1610	--	310	15	13
09...	1835	--	152	9	3.7
12...	1605	--	155	24	10
13...	0810	--	191	60	31
16...	1725	--	750	40	81
19...	0950	--	261	16	11
28...	1816	--	100	15	4.0
MAY					
04...	0930	--	86	19	4.4
19...	2020	--	442	29	35
26...	2007	--	104	27	7.6
JUNE					
02...	1925	--	71	16	3.1
12...	1030	--	258	65	46
17...	1805	--	90	30	7.3
24...	1733	--	82	37	8.2
27...	1310	--	51	23	3.2
JULY					
08...	1850	--	41	15	1.7
14...	1705	--	49	21	2.8
21...	2006	--	29	15	1.2
28...	1500	--	52	26	3.7
AUG.					
05...	1610	--	31	7	.59
08...	1305	--	29	16	1.3
12...	1545	--	37	7	.70
18...	2015	--	69	19	3.5
25...	1853	--	36	11	1.1
SEP.					
01...	0942	--	88	48	11
09...	2046	--	45	6	.73
12...	1200	--	31	23	1.9
15...	0846	--	32	10	.86
22...	1837	--	23	3	.19
29...	1735	--	39	5	.53

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued

04087020 - MENOMONEE RIVER AT MENOMONEE FALLS, WIS. (LAT 43 11 32 LONG 088 07 58)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG., 1974					
06...	1655	--	3.8	52	.53

04087050 - LITTLE MENDMDNEE RIVER NR. FREISTADT, WIS. (LAT 43 12 24 LONG 088 02 24)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG., 1974					
06...	1720	--	.82	42	.09

04087088 - UNDERWOOD CR AT HWY 45 AT WAUWATOSA, WIS. (LAT 43 03 17 LONG 088 02 46)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG., 1974					
06...	--	--	2.2	5	.03

04087119 - HONEY CREEK AT WAUWATOSA, WIS. (LAT 43 02 38 LONG 088 00 10)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG., 1974					
06...	1455	--	3.2	15	.13
26...	1515	--	3.0	15	.12

04087120 - MENOMONEE RIVER AT WAUWATOSA, WIS. (LAT 43 02 44 LONG 087 59 59)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	0920	16.0	45	10	1.2
NOV.					
24...	1500	8.0	240	210	136
JAN., 1974					
18...	1045	2.5	46	11	1.4
MAR.					
01...	1825	4.0	239	44	28
APR.					
30...	1515	--	117	6	1.9
JUNE					
13...	1015	--	65	17	3.0
AUG.					
06...	1135	--	15	7	.28
26...	1455	--	20	9	.49

04087204 - OAK CREEK AT SOUTH MILWAUKEE, WIS. (LAT 42 55 30 LONG 087 52 12)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
30...	1245	16.5	9.9	144	3.8
NOV.					
24...	1230	6.5	34	233	22
JAN., 1974					
18...	1520	.0	7.3	92	1.8
MAR.					
02...	1050	.5	118	39	12
MAY					
01...	1530	--	21	6	.34
JUNE					
12...	1730	--	25	48	3.3

04087220 - ROOT RIVER NR. FRANKLIN, WIS. (LAT 42 52 25 LONG 087 59 45)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	1900	17.0	32	58	5.0
NOV.					
24...	0942	6.1	31	92	7.8
JAN., 1974					
18...	1240	.0	14	14	.53
MAR.					
02...	1430	2.0	172	37	17
20...	1545	4.0	50	112	15
APR.					
30...	1750	--	55	31	4.6
JUNE					
12...	1520	--	43	65	7.6

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued					
04087233 - RODT RIVER CANAL NR. FRANKLIN, WIS. (LAT 42 48 55 LONG 087 59 40)					
NOV., 1973					
19...	1740	.0	16	50	2.2
04087240 - RODT RIVER AT RACINE, WIS. (LAT 42 45 05 LONG 087 49 25)					
OCT., 1973					
03...	1530	17.0	297	136	109
NOV.					
23...	1435	6.0	46	20	2.5
JAN., 1974					
17...	1805	.0	198	18	9.6
MAY					
02...	1245	--	320	113	98
JUNE					
12...	1000	--	772	107	223
04087257 - PIKE RIVER NR. RACINE, WIS. (LAT 42 38 49 LONG 087 51 38)					
OCT., 1973					
03...	1145	16.5	20	46	2.5
NOV.					
23...	1205	6.0	13	12	.42
DEC.					
06...	1120	3.5	162	85	37
JAN., 1974					
17...	1520	.0	14	12	.45
MAR.					
05...	1245	--	275	126	94
MAY					
02...	1015	10.5	50	30	4.0
JUNE					
11...	1655	--	139	210	78
AUG.					
19...	1515	23.0	4.0	27	.29
CHIPPEWA RIVER BASIN					
05358300 - PINE CREEK NR. OXBO, WIS. (LAT 45 54 20 LONG 090 41 00)					
JUNE, 1974					
03...	1630	19.5	31	1	.08
JULY					
19...	1200	25.5	26	3	.21
AUG.					
21...	1140	19.5	20	0	.00

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUNE, 1974												
03...	1630	31	1	6	4	17	28	38	50	62	75	100

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CHIPPEWA RIVER BASIN--Continued

05359500 - S. FK. FLAMBEAU RIVER NR. PHILLIPS, WIS. (LAT 45 42 08 LONG 090 36 58)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	0845	--	604	3	4.9
09...	0855	--	671	2	3.6
16...	0915	--	627	0	.00
23...	0855	--	364	0	.00
29...	1545	--	604	4	6.5
30...	1900	--	638	0	.00
NOV.					
06...	0855	--	349	0	.00
13...	0920	--	306	0	.00
20...	0905	--	349	0	.00
26...	0910	--	629	0	.00

05366500 - EAU CLAIRE RIVER NR. FALL CREEK, WIS. (LAT 44 48 35 LONG 091 16 50)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
05...	1630	--	5060	5930	81000

05368000 - HAY RIVER AT WHEELER, WIS. (LAT 45 02 52 LONG 091 54 39)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
06...	1435	--	376	47	48
12...	1535	--	474	74	95
23...	1545	3.0	347	48	45
NOV.					
06...	1535	3.0	240	28	18
11...	1520	--	266	18	13
12...	1115	1.5	240	12	7.8
16...	1545	5.0	242	52	34
DEC.					
04...	1510	--	269	54	39
JAN., 1974					
11...	1405	.0	487	6	7.9
FEB.					
15...	1400	.0	443	6	7.2
MAR.					
05...	1400	6.0	274	6	4.4
APR.					
01...	1620	2.5	443	28	34
04...	1600	4.0	1590	164	702
05...	1630	4.0	1430	522	2020
06...	1445	5.0	1230	157	521
07...	1015	--	1280	179	617
08...	1430	--	1370	129	477
09...	1450	--	1130	50	153
12...	1545	--	2090	164	923
15...	1615	--	1330	143	514
29...	1615	--	431	24	28
MAY					
07...	1400	--	324	8	7.0
14...	1215	--	489	22	29
31...	1110	--	280	10	7.9
JUNE					
14...	1230	--	400	27	30
17...	1515	--	283	25	19
JULY					
09...	1030	--	200	17	9.2
09...	1130	--	206	23	13
16...	0930	--	210	38	22
22...	1300	20.5	186	32	16

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

CHIPPEWA RIVER BASIN--Continued

05369500 _ CHIPPEWA RIVER AT DURAND, WIS. (LAT 44 37 40 LONG 091 58 10)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JUNE, 1974							
11...	1600	25900	152	10240	8	9	12
SEP.							
10...	1230	5060	50	683	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JUNE, 1974							
11...	14	18	21	23	33	49	100
SEP.							
10...	--	--	17	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
05371050 - PLUM CREEK NR. ELLA, WIS. (LAT 44 32 25 LONG 092 04 23.01)					
APR., 1974					
04...	1200	--	156	244	103
18...	1430	--	62	76	13
MAY					
09...	1345	--	50	54	7.3
JUNE					
12...	1345	--	52	98	14
JULY					
30...	1500	--	39	44	4.6
SEP.					
10...	1510	--	40	49	5.3
TREMPEALEAU RIVER BASIN					
05379400 - TREMPEALEAU RIVER AT ARCADIA, WIS. (LAT 44 15 15 LONG 091 30 25)					
OCT., 1973					
02...	1230	15.5	403	49	53
FEB., 1974					
21...	1400	5.0	892	46	111
JUNE					
11...	1300	19.5	1440	250	972
JULY					
24...	1300	23.5	510	83	114
SEP.					
10...	0850	15.5	300	84	68
BLACK RIVER BASIN					
05381000 - BLACK RIVER AT NEILLSVILLE, WIS. (LAT 44 33 35 LONG 090 36 50)					
JUNE, 1974					
21...	1220	--	223	4	2.7
05381350 - LEVIS CREEK AT BLACK RIVER FALLS, WIS. (LAT 44 18 42 LONG 090 48 23)					
OCT., 1973					
03...	1330	13.0	130	17	6.0
NOV.					
06...	1120	1.5	110	4	1.2
JAN., 1974					
30...	1630	--	31	2	.21
JUNE					
12...	0840	--	124	56	19
JULY					
24...	0940	--	13	2	.09
WISCONSIN RIVER BASIN					
05391000 - WISCONSIN R AT RAINBOW L NR. LAKE TOMAHAWK, WIS. (LAT 45 50 00 LONG 089 32 50)					
NOV., 1973					
29...	1400	--	800	31	67

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05393500 - SPIRIT RIVER AT SPIRIT FALLS, WIS. (LAT 45 26 58 LONG 089 58 47)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
01...	1540	--	52	7	1.1
NOV.					
02...	1400	--	67	3	.54
JAN., 1974					
14...	1100	--	17	0	.00
MAR.					
06...	1250	--	130	5	1.8
MAY					
10...	1000	--	34	4	.37
JUNE					
24...	1115	--	32	5	.43
JULY					
30...	1245	--	17	6	.28
SEP.					
11...	1045	--	461	8	10

05395000 - WISCONSIN RIVER AT MERRILL, WIS. (LAT 45 10 40 LONG 089 40 45)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
08...	1530	--	2200	10	59
DEC.					
19...	1450	--	2400	6	39

05397500 - EAU CLAIRE RIVER AT KELLY, WIS. (LAT 44 55 06 LONG 089 33 00)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
04...	1240	--	521	7	9.8
NOV.					
01...	1325	--	132	2	.71
DEC.					
18...	1230	--	230	2	1.2
JAN., 1974					
24...	1335	--	693	0	.00
FEB.					
20...	1330	--	323	0	.00
APR.					
08...	1430	--	640	43	74
MAY					
21...	1050	--	150	8	3.2
JULY					
01...	1515	--	220	9	5.3
AUG.					
01...	1145	--	89	6	1.4
SEP.					
03...	1515	--	71	4	.77

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05399500 - BIG EAU PLEINE RIVER NR. STRATFORD, WIS. (LAT 44 49 19 LONG 090 04 46)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
01...	1305	--	15	1	.04
05...	1120	--	8.5	4	.09
08...	1140	--	9.0	4	.10
15...	1310	--	13	0	.00
22...	1335	--	9.0	8	.19
29...	1425	--	22	7	.42
NOV.					
05...	1410	--	16	5	.22
07...	1200	--	13	4	.14
13...	1150	--	12	6	.19
21...	1325	--	27	18	1.3
26...	1525	--	29	7	.55
DEC.					
03...	0905	--	22	9	.53
JAN., 1974					
31...	1300	--	52	1	.14
MAR.					
06...	1130	--	1950	25	132
07...	0800	--	3390	7	64
08...	0800	--	2040	7	39
09...	0750	--	1300	4	14
11...	0930	--	963	1	2.6
12...	1045	--	864	9	21
18...	1045	--	282	1	.76
APR.					
06...	0745	--	1800	9	44
08...	0810	--	1400	14	53
13...	1030	--	1390	39	146
15...	0740	--	418	4	4.5
22...	1325	--	77	7	1.5
26...	1355	--	49	6	.79
29...	1110	--	38	8	.82
MAY					
06...	1055	--	40	4	.43
13...	1010	--	165	4	1.8
20...	1415	--	54	7	1.0
27...	1010	--	39	10	1.1
JUNE					
03...	1015	--	43	7	.81
07...	2010	--	740	54	108
08...	0745	--	1050	40	115
09...	0915	--	690	29	54
10...	0805	--	1700	28	129
11...	1500	--	650	13	23
17...	1130	--	54	10	1.5
24...	0920	--	18	14	.68
JULY					
01...	1645	--	10	6	.16
07...	2030	--	6.0	6	.10
15...	0835	--	4.1	16	.18
22...	0800	--	3.0	8	.07
30...	0830	--	4.1	16	.18
AUG.					
01...	1330	--	3.0	8	.07
05...	0730	--	5.0	10	.13
11...	0800	--	24	13	.84
19...	0915	--	7.0	12	.24
26...	1620	--	4.0	0	.00
SEP.					
02...	1200	--	2.7	2	.01
04...	1530	--	2.0	5	.03
09...	1415	--	16	0	.00
16...	0925	--	9.0	0	.00
23...	0955	--	7.0	0	.00
30...	1005	--	7.0	0	.00

05399550 - FENWOOD CREEK AT BRADLEY, WIS. (LAT 44 48 03 LONG 089 58 24.01)

APR., 1974					
26...	1210	--	11	4	.12
JUNE					
11...	1255	--	93	10	2.5
AUG.					
01...	1125	--	.26	5	.00

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05399580 - FREEMAN CREEK AT HALDER, WIS. (LAT 44 47 11 LONG 089 51 42.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
26...	1115	--	13	5	.18
JUNE					
11...	1050	--	36	10	.97
AUG.					
01...	1000	--	1.4	16	.06

05399600 - BIG EAU PLEINE RIVER NR KNOWLTON, WIS. (LAT 44 43 52 LONG 089 45 34.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
09...	1030	--	945	8	20
09...	1045	--	475	6	8.3
21...	1015	--	245	8	5.3
27...	1530	--	565	0	.00
JUNE					
05...	1815	--	400	2	2.2
10...	1800	--	1000	4	11
11...	1155	--	1210	7	23
21...	1700	--	288	4	3.1
24...	1930	--	470	3	3.8
JULY					
01...	1700	--	470	2	3.2
09...	1300	--	460	7	8.7
15...	1015	--	440	6	7.1
22...	0930	--	420	3	3.4
29...	0940	--	105	12	3.4
AUG.					
16...	0915	--	205	8	4.4
21...	0945	--	205	7	3.9
26...	1645	--	200	12	6.5
SEP.					
02...	1400	--	290	12	9.4
09...	0900	--	280	17	13
18...	1000	--	185	14	7.0
23...	0930	--	180	24	12

05400650 - LITTLE PLOVER RIVER AT PLOVER, WIS. (LAT 44 28 26 LONG 089 31 44)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	1100	--	18	6	.29
NOV.					
05...	1400	--	16	7	.30
15...	0900	5.0	20	4	.24
JAN., 1974					
15...	1000	--	158	8	3.4
15...	1100	--	156	3	1.3
FEB.					
21...	1025	--	135	4	1.5
APR.					
15...	1600	--	224	2	1.2
MAY					
31...	0950	--	20	2	.14
JULY					
09...	1040	--	10	7	.20
AUG.					
05...	1050	--	8.5	8	.18
SEP.					
04...	1220	--	72	7	1.4

05400853 - BUENA VISTA CREEK NR. KELLNER, WIS. (LAT 44 22 26 LONG 089 41 52)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
16...	0930	3.5	38	4	.41

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05401050 - TENMILE CREEK NR. NEKOOSA, WIS. (LAT 44 15 44 LONG 089 48 38)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	1030	--	29	7	.55
03...	1025	13.0	48	2	.26
NOV.					
06...	1000	--	51	8	1.1
15...	1645	--	51	16	2.2
JAN., 1974					
15...	1330	--	31	4	.33
MAR.					
05...	1340	--	80	11	2.4
APR.					
16...	1600	--	154	41	17
MAY					
01...	1115	--	88	24	5.7
JULY					
08...	1440	--	52	16	2.3
SEP.					
05...	1035	--	31	5	.42

05401510 - BIG ROCHE A CRI CREEK NR. HANCOCK, WIS. (LAT 44 10 15 LONG 089 34 59)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV., 1973					
14...	1330	8.0	11	1	.03

05401535 - BIG ROCHE A CRI CREEK NR. ADAMS, WIS. (LAT 44 05 52 LONG 089 46 30)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
02...	1540	--	50	10	1.3
NOV.					
05...	1705	--	52	12	1.7
JAN., 1974					
15...	1120	--	56	16	2.4
MAR.					
05...	1125	--	84	17	3.9
APR.					
16...	1100	--	159	2	.86
MAY					
01...	0900	--	96	8	2.1
JULY					
08...	1245	--	91	13	3.2
SEP.					
05...	1100	--	42	3	.34

05403500 - LEMONWEIR RIVER AT NEW LISBON, WIS. (LAT 43 52 47 LONG 090 09 40)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	1630	17.0	376	6	6.1
05...	1700	--	387	6	6.3
12...	1700	--	326	6	5.3
19...	1700	--	279	6	4.5
26...	1700	--	242	6	3.9
NOV.					
02...	1700	--	366	7	6.9
06...	1530	3.0	346	6	5.6

05403630 - HULBERT CREEK NR. WISCONSIN DELLS, WIS. (LAT 43 37 37 LONG 089 49 36)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
04...	0845	14.0	18	20	.97
NOV.					
07...	1230	2.5	4.5	16	.20
DEC.					
19...	1000	.5	4.5	56	.68
JAN., 1974					
29...	1315	2.0	5.0	14	.19
MAR.					
13...	1345	2.5	6.1	4	.07
JUNE					
13...	1155	--	6.2	8	.13
JULY					
23...	1530	--	3.7	3	.03

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406710 - PINE RIVER AT SITE 36A AT YUBA, WIS. (LAT 43 32 22 LONG 090 25 50)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
16...	0930	5.0	56	62	9.4
JUNE					
03...	1530	18.S	19	16	.83
SEP.					
09...	1015	16.5	10	28	.77

05406714 - PINE RIVER AT SITE 36B NR. HUB CITY, WIS. (LAT 43 29 24 LONG 090 22 00)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
16...	1110	7.0	98	123	33
JUNE					
03...	1730	18.0	32	10	.91
SEP.					
09...	1145	17.5	25	6	.40

05406715 - MALANCTHON CR. AT SITE 21A NR. HUB CITY, WIS. (LAT 43 33 12 LONG 090 21 17.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1230	10.0	2.4	57	.37
JUNE					
03...	1030	10.0	1.5	16	.07
SEP.					
09...	1300	14.5	1.2	35	.11

05406716 - MALANCTHON CR. AT SITE 21B NR. HUB CITY, WIS. (LAT 43 32 08 LONG 090 21 15.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1030	7.5	8.8	47	1.1
JUNE					
03...	1300	11.0	4.0	16	.17
SEP.					
09...	1400	15.0	3.0	47	.3B

05406728 - W. BR. PINE R. AT SITE 14A4 NR BLOOM CITY, WIS. (LAT 43 31 20 LONG 090 29 10.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
15...	0830	8.0	9.6	96	2.S
JUNE					
04...	1300	18.5	6.9	21	.39
SEP.					
09...	1530	18.5	5.6	35	.53

05406730 - W. BR. PINE R. AT SITE 14B NR. BLOOM CITY, WIS. (LAT 43 30 22 LONG 090 28 24.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
15...	1000	8.5	12	20	.68
JUNE					
04...	1130	18.0	9.0	73	1.8
SEP.					
09...	1645	20.0	8.2	42	.93

05406735 - W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,WIS. (LAT 43 29 10 LONG 090 29 24.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1430	11.0	5.6	25	.38
JUNE					
04...	0930	13.0	2.3	18	.11
SEP.					
10...	0945	13.0	2.5	74	.50

05406737 - W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,WIS. (LAT 43 28 57 LONG 090 29 30.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1600	13.0	2.9	71	.56
JUNE					
04...	1030	15.0	1.6	6	.03
SEP.					
10...	1045	13.0	1.4	44	.17

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406740 - W BR PINE R TRIB AT SITE 11B AT BLOOM CITY, WIS. (LAT 43 29 12 LONG 090 27 56.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1700	12.5	12	40	1.3
JUNE					
04...	0930	15.0	5.3	6	.09
SEP.					
10...	0845	14.0	4.4	41	.49

05406752 - FANCY CR. AT SITE 33A NR. GILLINGHAM, WIS. (LAT 43 27 26 LONG 090 29 58.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
15...	0715	8.0	3.8	2	.02
JUNE					
03...	1010	10.0	1.9	6	.03
SEP.					
09...	1415	15.5	1.6	2	.01

05406754 - FANCY CR. AT SITE 33B NR. GILLINGHAM, WIS. (LAT 43 26 49 LONG 090 28 45.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
15...	0850	8.5	8.7	16	.38
JUNE					
03...	1115	11.5	4.1	12	.13
SEP.					
09...	1530	19.0	3.5	8	.08

05406757 - FANCY CR. TRIB. AT SITE 9A NR. GILLINGHAM, WIS. (LAT 43 26 14 LONG 090 29 48.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1630	12.0	1.6	7	.03
JUNE					
03...	1200	12.5	.73	12	.02
SEP.					
09...	1055	12.0	.71	21	.04

05406758 - FANCY CR. TRIB AT SITE 9B1 NR. GILLINGHAM, WIS. (LAT 43 25 58 LONG 090 29 12.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1730	12.5	2.1	4	.02
JUNE					
03...	1245	15.0	1.6	18	.08
SEP.					
09...	1230	17.0	.79	14	.03

05406763 - FANCY CR. TRIB. AT SITE 7A3 NR. GILLINGHAM, WIS. (LAT 43 24 59 LONG 090 29 04.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1410	14.0	5.1	15	.21
JUNE					
03...	1345	16.0	1.4	10	.04
SEP.					
10...	1035	14.0	1.2	8	.03

05406764 - FANCY CR. TRIB. AT SITE 7B NR. GILLINGHAM, WIS. (LAT 43 25 26 LONG 090 28 19.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1510	14.0	6.0	11	.18
JUNE					
03...	1430	19.0	1.8	6	.03
SEP.					
10...	0935	14.5	1.5	8	.03

05406781 - HORSE CR. AT SITE 32A1 NR. RICHLAND CENTER, WIS. (LAT 73 22 37 LONG 090 26 44.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1040	9.0	7.6	28	.57
JUNE					
03...	1515	19.0	2.5	15	.10
SEP.					
10...	0955	14.0	1.8	17	.08

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406782 - HORSE CR TRIB AT SITE 32A2 NR RICHLAND CTR, WIS. (LAT 43 22 26 LONG 090 26 44.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1135	10.0	2.5	15	.10
JUNE					
03...	1600	18.0	1.0	7	.02
SEP.					
10...	0845	13.5	.50	22	.03

05406783 - HORSE CR. AT SITE 32B NR. RICHLAND CENTER, WIS. (LAT 43 22 22 LONG 090 25 11.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY , 1974					
14...	1250	11.5	14	224	8.5
JUNE					
03...	1645	19.0	4.6	56	.70
SEP.					
10...	1123	15.0	3.4	20	.19

05406785 - BRUSH CR. AT SITE 4A1 NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 26 43.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
15...	1610	11.0	8.3	648	15
JUNE					
03...	1645	20.5	.85	16	.04
SEP.					
09...	1520	19.5	.42	19	.02

05406786 - BRUSH CR TRIB AT SITE 4A2 NR RICHLAND CNT, WIS. (LAT 43 20 54 LONG 090 26 31.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
15...	1540	13.0	2.4	30	.19
JUNE					
03...	1515	16.0	1.1	8	.02
SEP.					
09...	1410	14.5	.40	8	.01

05406787 - BRUSH CR. AT SITE 4B NR. RICHLAND CENTER, WIS. (LAT 43 21 00 LONG 090 25 55.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
15...	1820	10.0	9.0	188	4.6
JUNE					
03...	1405	18.0	2.6	10	.07
SEP.					
09...	1635	18.5	1.9	152	.78

05406810 - PINE RIVER AT RICHLAND CENTER, WIS. (LAT 43 18 54 LONG 090 22 40.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
16...	1430	11.0	489	127	168
JUNE					
04...	1205	19.0	152	46	19
SEP.					
09...	1230	20.0	126	79	27

05406835 - ASH CR. AT SITE 2A NR. RICHLAND CENTER, WIS. (LAT 43 17 56 LONG 090 25 54.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
15...	1150	9.0	3.4	18	.17
JUNE					
03...	1230	12.0	1.2	19	.06
SEP.					
10...	1240	13.5	1.4	8	.03

05406840 - ASH CR. AT SITE 2B NR. RICHLAND CENTER, WIS. (LAT 43 17 34 LONG 090 25 11.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
15...	1350	12.0	6.4	56	.97
JUNE					
03...	1015	12.0	2.2	8	.05
SEP.					
10...	1345	17.0	2.2	16	.10

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05406851 - PINE RIVER AT TWIN BLUFFS, WIS. (LAT 43 16 37 LONG 090 18 38.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR., 1974					
16...	1630	10.0	496	184	246
JUNE					
04...	1430	20.5	171	76	35
SEP.					
09...	1000	17.5	133	88	32

05409500 - KICKAPOO RIVER AT SOLDIERS GROVE, WIS. (LAT 43 23 40 LONG 090 46 35)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR., 1974					
05...	1550	--	3030	147	1200

05409830 - N. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 47 LONG 090 54 34.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC., 1973					
04...	1445	--	2.2	446	2.6
APR., 1974					
23...	1045	--	.99	9	.02
JUNE					
25...	1015	12.5	.95	14	.04
AUG.					
21...	1245	--	.88	9	.02
27...	1215	17.0	.88	22	.05

05409860 - S. FK. NEDERLO CREEK NR. GAYS MILLS, WIS. (LAT 43 21 36 LONG 090 54 31.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC., 1973					
04...	1530	--	2.5	38	.26
AUG., 1974					
27...	1100	13.0	1.2	15	.05

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WISCONSIN RIVER BASIN--Continued

05409870 - NEDERLD CREEK NR. GAYS MILLS, WIS. (LAT 43 21 30 LONG 090 53 49.01)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
03...	2325	--	8.8	93	2.2
03...	2355	--	8.8	114	2.7
04...	0025	--	9.0	574	14
04...	0055	--	8.0	488	11
DEC.					
04...	1615	--	4.6	56	.70
MAR., 1974					
29...	1815	--	9.6	259	6.7
29...	1845	--	14	398	15
29...	1915	--	18	1530	74
29...	1945	--	18	2080	101
29...	2015	--	16	1830	79
29...	2045	--	16	1170	51
29...	2115	--	15	914	37
29...	2145	--	13	686	24
29...	2215	--	12	506	16
29...	2245	--	11	443	13
29...	2315	--	9.6	376	9.7
29...	2345	--	8.8	364	8.6
30...	0015	--	8.0	356	7.7
30...	1715	--	8.5	135	3.1
APR.					
14...	0620	--	9.0	767	19
14...	0650	--	14	949	36
14...	0720	--	19	1250	64
14...	0750	--	19	2210	113
14...	0820	--	17	2400	110
14...	0850	--	14	2140	81
14...	0920	--	12	1950	63
14...	0950	--	10	1720	46
14...	1020	--	9.0	1250	30
14...	1050	--	8.8	962	23
14...	1120	--	8.5	727	17
14...	1150	--	8.5	550	13
14...	1220	--	8.5	425	9.8
14...	1250	--	8.5	342	7.8
14...	1320	--	8.2	273	6.0
14...	1350	--	8.0	293	6.3
JUNE					
14...	1205	--	13	589	21
14...	1235	--	23	11800	733
14...	1305	--	14	8450	319
25...	1145	15.0	3.2	21	.18
JULY					
04...	0045	--	27	569	41
04...	0145	--	17	12000	551
04...	0215	--	14	9770	369
18...	0830	--	15	707	29
18...	0900	--	138	21100	7860
18...	0930	--	86	12600	2930
18...	1000	--	27	7970	581
18...	1030	--	16	5270	228
18...	1100	--	12	4160	135
25...	0815	--	10	1060	29
25...	0845	--	12	1160	38
25...	0915	--	12	937	30
25...	0945	--	13	949	33
25...	1015	--	13	1110	39
25...	1045	--	12	1190	39
25...	1115	--	11	1090	32
25...	1530	--	3.2	30	.26
30...	0335	--	3.2	73	.63
30...	1535	--	3.2	34	.29
31...	0335	--	3.2	51	.44
31...	1530	--	3.2	23	.20
AUG.					
01...	0330	--	3.2	55	.48
01...	1525	--	3.2	49	.42
02...	1525	--	3.2	27	.23
03...	0325	--	3.2	45	.39
04...	0320	--	3.2	203	1.8
04...	1520	--	3.2	34	.29
05...	0345	--	2.9	50	.39
05...	1540	--	2.9	24	.19
06...	0340	--	2.9	56	.44
06...	1540	--	2.9	30	.23
07...	0335	--	2.9	201	1.6
07...	1530	--	2.9	30	.23
08...	0330	--	2.9	68	.53
08...	1530	--	2.9	67	.52
09...	0330	--	2.7	76	.55
AUG., 1974					
09...	1530	--	2.7	27	.20
10...	0330	--	2.9	89	.70
10...	1530	--	3.9	86	.91
11...	0325	--	3.4	76	.70
11...	1525	--	3.2	45	.39
12...	0325	--	3.2	57	.49
12...	1520	--	3.4	115	1.1
13...	0315	--	3.2	64	.55
13...	1515	--	3.2	40	.35
14...	0310	--	3.2	61	.53
15...	0330	--	3.2	66	.57
21...	1245	--	3.2	18	.16
21...	2145	--	12	1350	44
22...	0045	--	4.5	702	8.5
22...	1245	--	3.6	104	1.0
23...	0040	--	3.4	120	1.1
23...	1240	--	3.4	18	.17
24...	0035	--	3.4	47	.43
24...	1230	--	3.2	31	.27
25...	0030	--	3.2	50	.43
25...	1230	--	3.2	52	.45
26...	0030	--	3.2	51	.44
26...	1225	--	3.2	50	.43
27...	1225	--	3.2	9	.08
27...	1315	--	3.2	15	.13
28...	0105	--	3.2	49	.42
28...	1305	--	3.2	19	.16
29...	0130	--	3.2	48	.41
29...	1330	--	3.2	6	.05
30...	0130	--	3.2	35	.30
30...	1330	--	3.2	6	.05
31...	0125	--	3.6	12	.12
31...	1325	--	3.4	12	.11
SEP.					
01...	0125	--	3.2	37	.32
01...	1320	--	3.2	16	.14
02...	0115	--	3.2	28	.24
02...	1310	--	3.2	8	.07
03...	0110	--	3.2	20	.17
03...	1310	--	3.4	7	.06
04...	0110	--	3.2	39	.34
04...	1300	--	3.2	30	.26
05...	0100	--	3.2	48	.41
05...	1300	--	3.2	9	.08
06...	0100	--	3.2	25	.22
06...	1300	--	3.2	7	.06
07...	0050	--	3.2	36	.31
07...	1250	--	3.2	9	.08
08...	0050	--	3.4	36	.33
08...	1250	--	3.2	18	.16
09...	0050	--	3.2	47	.41
09...	1245	--	3.4	35	.32
10...	0045	--	3.4	53	.49
10...	1240	--	3.2	19	.16
11...	0030	--	3.2	48	.41
19...	0040	--	3.2	30	.26
19...	1235	--	3.2	15	.13
20...	0035	--	3.2	30	.26
20...	1230	--	3.2	11	.10
21...	0030	--	3.2	27	.23
21...	1230	--	3.2	12	.10
22...	0030	--	3.2	25	.22
22...	1230	--	3.2	10	.09
23...	0025	--	3.2	22	.19
23...	1225	--	3.9	6	.06
24...	0020	--	3.6	32	.31
24...	1215	--	3.4	11	.10
25...	0015	--	3.2	30	.26
25...	1215	--	3.2	4	.03
26...	0015	--	3.2	25	.22
26...	1400	--	3.2	25	.22
27...	0200	--	3.2	23	.20
27...	1400	--	3.2	15	.13
28...	0200	--	3.2	26	.22
29...	1350	--	3.4	21	.19
30...	0140	--	3.4	21	.19
30...	1340	--	3.4	10	.09

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
WISCONSIN RIVER BASIN--Continued					
05410000 - KICKAPOO RIVER AT GAYS MILLS, WIS. (LAT 43 19 10 LONG 090 51 08)					
OCT., 1973					
15...	1335	--	518	55	77
NOV.					
28...	1200	5.5	533	34	49
JAN., 1974					
14...	1630	.0	370	19	19
APR.					
15...	1605	--	1180	4425	14100
MAY					
21...	1545	--	626	70	119
JULY					
08...	1230	--	443	90	108
SEP.					
30...	1515	--	347	18	17
GRANT RIVER BASIN					
05413500 - GRANT RIVER AT BURTON, WIS. (LAT 42 43 13 LONG 090 49 09)					
OCT., 1973					
16...	1115	10.5	178	122	59
NOV.					
29...	1120	3.5	163	52	23
JAN., 1974					
15...	1130	.0	157	48	20
APR.					
10...	1555	--	303	1780	1450
MAY					
22...	1435	--	398	930	999
JUNE					
21...	1205	--	8170	8575	189000
21...	1500	--	4560	7390	91000
JULY					
09...	1305	--	217	171	100
AUG.					
20...	0950	--	174	362	170
PLATTE RIVER BASIN					
05414000 - PLATTE RIVER NR. ROCKVILLE, WIS. (LAT 42 43 55 LONG 090 38 25)					
JUNE, 1974					
21...	1345	--	890	4800	11500
21...	1445	--	800	4305	9300
21...	1605	--	730	3465	6830
JULY					
09...	1530	--	144	92	36
GALENA RIVER BASIN					
05415000 - GALENA RIVER AT BUNCOMBE, WIS. (LAT 42 30 49 LONG 090 22 40)					
MAR., 1974					
03...	1610	--	610	986	1620
04...	1900	--	1340	5295	19200
ROCK RIVER BASIN					
05426000 - CRAWFISH RIVER AT MILFORD, WIS. (LAT 43 06 00 LONG 088 51 00)					
OCT., 1973					
01...	1045	--	161	56	24
APR., 1974					
25...	1120	--	1770	92	440
JUNE					
10...	1050	--	858	68	158
JULY					
23...	1200	--	173	126	59
SEP.					
03...	0940	--	143	45	17
05427948 - PHEASANT BR. AT MIDDLETON, WIS. (LAT 43 06 12 LONG 089 30 42.01)					
JULY, 1974					
12...	1130	16.5	2.0	95	.51
25...	1140	--	2.0	72	.39
29...	1140	--	2.0	74	.40
AUG.					
06...	1107	--	2.0	62	.33
27...	1215	18.5	1.4	25	.09
05427950 - PHEASANT BR. AT MOUTH AT MIDDLETON, WIS. (LAT 43 06 22 LONG 089 29 01.01)					
JULY, 1974					
30...	1145	--	5.8	34	.53
AUG.					
27...	1045	18.0	11	33	1.0

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROCK RIVER BASIN--Continued

05427970 - WILLOW CREEK AT MADISON, WIS. (LAT 43 04 27 LONG 089 25 21)

DATE	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT., 1973			
12...	2.4	14	.21
27...	3.8	28	.76
28...	1.7	15	.06
29...	2.2	16	.13
NOV.			
27...	3.1	14	.32
DEC.			
04...	21	56	5.3
05...	2.6	12	.10
21...	.80	71	1.7
24...	2.9	112	1.7
25...	14	390	21
JAN., 1974			
18...	2.6	108	.94
19...	1.0	35	.10
20...	30	101	10
21...	6.5	47	.93
22...	2.2	99	.88
23...	1.6	52	.23
25...	1.9	59	.50
26...	41	130	19
27...	6.0	27	.40
29...	1.6	27	.13
30...	6.8	52	2.0
31...	1.6	26	.11
FEB.			
12...	1.7	47	.34
16...	1.4	53	.30
17...	1.4	53	.21
18...	5.8	88	2.7
19...	3.3	56	.81
20...	4.8	58	1.4
21...	4.3	84	1.3
22...	1.4	46	.19
27...	2.1	41	.59
28...	3.2	49	.94
MAR.			
01...	1.1	20	.17
04...	12	169	16
05...	2.0	20	.11
06...	2.5	30	.20
07...	3.1	35	.29
08...	1.5	96	4.1
09...	2.0	79	2.0
11...	.70	34	.55
15...	2.0	81	5.9
28...	14	148	19
29...	14	81	11
30...	6.5	53	1.4
APR.			
01...	.98	15	.07
02...	1.2	19	.07
03...	12	141	12
08...	1.2	5	.00
10...	4.2	25	.28
11...	2.9	33	.66
12...	4.1	49	1.2
13...	10	55	14
14...	29	164	34
16...	1.7	11	.09
18...	4.2	41	1.8
21...	2.9	37	1.0
28...	6.1	48	4.5
29...	4.1	44	1.1
MAY			
03...	1.8	26	.18
07...	5.5	95	4.4
08...	6.8	11	.38
10...	3.0	21	1.2
11...	7.8	61	2.4
16...	38	115	57
17...	1.1	22	.03
21...	20	93	24
22...	5.2	51	1.4
JUNE			
02...	2.1	16	.16
05...	4.4	42	1.9
06...	2.6	15	.14
07...	4.0	35	1.3
09...	50	327	65
10...	2.1	63	.44
14...	3.4	29	1.3
JULY			
10...	12	41	3.1
25...	14	54	4.9
AUG.			
04...	2.1	14	.09
11...	4.4	30	1.6
12...	5.6	50	2.0
16...	35	68	82
17...	2.0	27	.18
26...	3.4	12	.40
27...	3.4	22	2.2
30...	8.5	30	8.0
31...	3.1	43	.55
SEP.			
23...	2.6	15	.22
28...	5.3	15	.72
29...	2.3	10	.21

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN., 1974							
30...	1540	29	144	11	47	63	78
MAR.							
04...	0820	17	678	31	51	67	85
04...	1045	58	717	110	29	41	55
MAY							
16...	1530	76	246	50	44	59	72

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN., 1974							
30...	91	96	98	99	100	--	--
MAR.							
04...	93	98	99	99	100	--	--
04...	70	87	96	97	99	100	--
MAY							
16...	84	90	95	96	97	98	100

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROCK RIVER BASIN--Continued

05429215 - NEVIN WETLAND SITE H AT MADISON, WIS. (LAT 43 00 41 LONG 089 24 49)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN., 1974					
18...	1415	--	.42	7	.01
30...	1430	--	.46	6	.01
FEB.					
18...	1525	--	.42	8	.01
MAY					
23...	1415	--	.50	64	.09
30...	1540	--	.42	12	.01
JUNE					
06...	1245	--	.42	6	.01
13...	1530	--	.42	18	.02
20...	1435	--	.39	24	.03
27...	1415	--	.42	16	.02
JULY					
03...	1230	--	.42	22	.02
11...	1435	--	.42	117	.13
18...	0945	--	.46	341	.42
19...	1200	--	.42	42	.05
AUG.					
16...	1515	--	2.4	1040	6.7
22...	1155	--	.42	48	.05
SEP.					
19...	1125	--	.42	40	.05

05429220 - NEVIN WETLAND SITE B AT MADISON, WIS. (LAT 43 00 46 LONG 089 24 39)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN., 1974					
18...	1345	--	.94	6	.02
MAR.					
28...	1415	--	2.4	18	.12
APR.					
04...	1255	--	2.0	18	.10
12...	1310	--	1.8	21	.10
18...	1250	--	1.2	25	.08
25...	1130	--	1.2	26	.08
MAY					
02...	1045	--	1.2	12	.04
10...	1120	--	1.2	10	.03
16...	1600	--	3.3	30	.27
23...	1340	--	1.4	34	.13
30...	1240	--	1.6	20	.09
JUNE					
06...	1125	--	1.5	20	.08
13...	1420	--	1.8	31	.15
20...	1315	--	2.9	26	.20
27...	1350	--	2.3	18	.11
JULY					
03...	1125	--	2.3	17	.11
11...	1130	--	2.3	57	.35
18...	0930	--	1.6	84	.36
19...	1045	--	1.6	32	.14
AUG.					
22...	1045	--	.94	62	.16
SEP.					
19...	1110	--	.94	49	.12

05429224 - NEVIN WETLAND SITE A AT MADISON, WIS. (LAT 43 00 55 LONG 089 24 56)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN., 1974					
18...	1520	--	2.4	1	.01

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROCK RIVER BASIN--Continued

05429230 - NEVIN WETLAND SITE D AT MADISON, WIS. (LAT 43 01 08 LONG 089 24 23)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN., 1974					
18...	1100	--	5.2	18	.25
31...	1145	--	8.1	21	.46
FEB.					
08...	1515	--	5.2	12	.17
13...	1410	--	6.8	32	.59
18...	1430	--	6.8	54	.99
21...	1100	--	7.7	2	.05
28...	1120	--	6.8	36	.66
MAR.					
07...	0955	--	7.7	6	.12
14...	1110	--	6.8	18	.33
21...	1500	--	6.0	11	.18
28...	1235	--	18	28	1.4
APR.					
04...	1115	--	16	22	.95
12...	1140	--	11	10	.30
18...	1140	--	6.8	19	.35
25...	0950	--	6.0	8	.13
MAY					
02...	0955	--	6.4	34	.59
10...	1030	--	6.0	3	.05
16...	1430	--	18	66	3.2
23...	1250	--	6.4	42	.73
30...	1145	--	6.0	6	.10
JUNE					
06...	1035	--	4.7	5	.06
13...	1050	--	5.2	27	.38
20...	1220	--	3.9	54	.57
27...	--	--	3.5	26	.25
JULY					
03...	1015	--	3.9	18	.19
11...	1030	--	11	26	.77
18...	1015	--	4.3	33	.38
19...	1000	--	5.2	22	.31
AUG.					
22...	0930	--	3.9	20	.21
SEP.					
19...	1030	--	3.5	7	.07

05431500 - TURTLE CREEK NR. CLINTON, WIS. (LAT 42 35 47 LONG 088 51 50)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN., 1974					
15...	--	.0	200	20	11
APR.					
30...	1310	--	305	115	95
JUNE					
21...	1230	--	1000	852	2300
JULY					
22...	1350	--	326	356	313
AUG.					
21...	1400	--	129	111	39
SEP.					
26...	1045	--	136	29	11

05432500 - PECATONICA RIVER AT DARLINGTON, WIS. (LAT 42 40 40 LONG 090 07 07)

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT., 1973					
17...	1140	--	129	90	31
NOV.					
30...	1150	3.0	136	46	17
JAN., 1974					
17...	1015	--	115	16	5.0
MAR.					
03...	1950	--	4040	608	6630
APR.					
09...	1200	--	169	56	26
MAY					
23...	1230	--	403	1055	1150
JULY					
10...	1330	--	246	278	185
AUG.					
21...	0930	--	162	160	70

SEDIMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
ILLINOIS RIVER BASIN					
05543830 - FOX RIVER AT WAUKESHA, WIS. (LAT 43 00 17 LONG 088 14 37)					
OCT., 1973					
02...	1210	14.5	67	20	3.6
NOV.					
19...	1045	6.0	56	2	.30
JAN., 1974					
18...	1300	1.0	67	2	.36
MAR.					
07...	1700	--	731	10	20
APR.					
30...	1300	--	194	15	7.9
JUNE					
13...	1225	--	140	14	5.5
AUG.					
07...	1445	23.0	30	14	1.1
SEP.					
11...	1100	--	25	68	4.6
05544200 - MUKWONAGO RIVER AT MUKWONAGO, WIS. (LAT 42 51 24 LONG 088 19 39)					
MAY , 1974					
03...	1640	--	125	8	2.7
AUG.					
16...	1250	--	59	8	1.3
SEP.					
11...	1335	--	47	9	1.1
05545300 - WHITE RIVER NR. BURLINGTON, WIS. (LAT 42 39 57 LONG 088 19 03)					
DEC., 1973					
05...	2105	--	366	46	45
MAR., 1974					
05...	1510	4.5	673	13	24

430343089274301 4910 MARATHON DRIVE, MADISON, WIS.
(TRITIUM STATION)

LOCATION.--LAT 43°03'43", LONG 89°27'43", IN SW 1/4 SEC.20, T.7 N., R.9 E., DANE COUNTY, AT PRECIPITATION GAGE AT 4910 MARATHON DRIVE, MADISON.

PERIOD OF RECORD.--FEBRUARY 1963 TO CURRENT YEAR.

REMARKS.--PRECIPITATION SAMPLES COLLECTED JAN. 1972 TO SEPT. 1974 ARE NOT YET ANALYZED.

DATE	TRITIUM IN WATER MOLECULES (UNITS)	TRITIUM IN WATER MOLECULES (COUNT. ERROR)	PRECIPITATION (INCHES)
FEB. 01-27, 1963	1550	160	--
MAR. 01-31	1790	180	2.33
APR. 01-30	2460	250	1.85
MAY 01-31	3290	330	1.56
JUNE 01-30	2430	240	1.89
JULY 01-18	4700	470	3.62
AUG. 01-31	3310	330	2.69
SEP. 01-30	2150	220	3.20
OCT. 01-31	1500	150	.57
NOV. 01-30	685	68.0	1.92
DEC. 01-31	2480	250	.52
JAN. 01-31, 1964	750	75.0	.65
FEB. 01-15	3150	320	.19
MAR. 01-31	3040	300	1.44
APR. 01-30	2210	220	3.00
MAY 01-31	3410	340	6.30
JUNE 01-30	1840	180	2.34
JULY 01-31	1780	180	3.47
AUG. 01-31	960	96.0	2.81
SEP. 01-30	900	90.0	2.73
OCT. 01-31	1200	120	.16
NOV. 01-30	245	24.0	1.94
DEC. 01-31	285	28.0	.20
JAN. 01-31, 1965	500	50.0	1.89
FEB. 01-28	515	52.0	.77
MAR. 01-31	1070	110	2.67
APR. 01-30	1130	110	3.90
MAY 01-31	890	89.0	1.90
JUNE 01-30	655	66.0	1.17
JULY 01-31	1450	140	3.01
AUG. 01-31	1040	100	4.92
SEP. 01-30	180	18.0	11.19
OCT. 01-31	370	37.0	1.94
NOV. 01-30	230	23.0	2.91
DEC. 01-31	190	19.0	2.15
JAN. 01-31, 1966	265	26.0	.99
FEB. 01-28	135	14.0	1.14
MAR. 01-31	425	42.0	2.25
APR. 01-30	700	70.0	1.86
MAY 01-31	640	64.0	5.02
JUNE 01-30	570	57.0	4.23
JULY 01 - AUG. 31	465	46.0	7.93
SEP. 01 - OCT. 31	250	25.0	3.33
NOV. 01 - DEC. 31	215	22.0	4.02
1967			
JAN. 01 - MAR. 31	230	15.0	3.57
APR. 01 - JUNE 30	325	21.0	12.95
JULY 01 - SEP. 30	360	23.0	7.61
OCT. 01 - DEC. 31	130	8.0	9.52
1968			
JAN. 01 - MAR. 31	175	10.0	1.88
APR. 01 - JULY 31	240	5.0	21.47
AUG. 01 - SEP. 30	170	11.0	9.67
OCT. 01 - DEC. 31	120	7.0	6.00
1969			
JAN. 01 - MAR. 31	193	12.0	4.79
APR. 01 - JUNE 30	268	7.0	15.57
JULY 01 - SEP. 30	353	10.0	8.27
OCT. 01 - DEC. 31	112	7.0	6.20
1970			
JAN. 01 - MAR. 31	189	8.0	1.64
APR. 01 - JUNE 30	261	11.0	11.92
JULY 01 - SEP. 30	114	4.0	13.24
OCT. 01 - DEC. 31	93.0	4.4	6.05
1971			
JAN. 01 - MAR. 31	117	6.0	8.08
APR. 01 - JUNE 30	220	6.0	7.22
JULY 01 - SEP. 30	186	4.0	8.41
OCT. 01 - DEC. 31	63.1	3.5	9.71
1972			
JAN. 01 - MAR. 31	108	5.0	3.55
APR. 01 - JUNE 30	126	6.0	5.83
JULY 01 - SEP. 30	81.4	4.0	16.13
OCT. 01 - DEC. 31	44.4	2.5	8.73

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