# SEDIMENT DATA FOR STREAMS NEAR MOUNT ST. HELENS, WASHINGTON

## VOLUME 3.

## WATER YEARS 1984-1987



U.S. GEOLOGICAL SURVEY
Open-File Report 91-219

# SEDIMENT DATA FOR STREAMS NEAR MOUNT ST. HELENS, WASHINGTON

## Volume 3. Water Years 1984-87

By Randy L. Dinehart

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UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

COVER: The Toutle River upstream from bridge at Tower Road, February 24, 1987. Photo by Lyn Topinka.

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Daily suspended-sediment discharge, particle-size distribution of suspended sediment, and particle-size distribution of bed material for the following stations:

**Lewis River Basin**



**Cowlitz River Basin**

# ILLUSTRATIONS

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## TABLE



## CONVERSION FACTORS AND VERTICAL DATUM

| Multiply | By | To obtain |
|---|---|---|
| | *Flow* | |
| cubic foot per second ($ft^3s^{-1}$) | 0.0283 | cubic meter per second |
| ton | 0.9072 | tonne, metric |
| | *Area* | |
| square mile ($mi^2$) | 2.59 | square kilometer |
| | *Length* | |
| inch (in) | 2.54 | centimeter |
| foot (ft) | 0.3048 | meter |
| mile (mi) | 1.609 | kilometer |

Sediment discharge and stream discharge data in the U.S. Geological Survey data repository, WATSTORE, are stored in inch-pound units, and sediment concentrations and grain diameters are stored in SI units.

In this report, gage-datum elevations are relative to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

# SEDIMENT DATA FOR STREAMS NEAR MOUNT ST. HELENS, WASHINGTON

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## ABSTRACT

This report presents fluvial sediment data collected from October 1983 through September 1987 at streams affected by the 1980 eruptions of Mount St. Helens. To provide daily sediment discharge values, and to document the sediment-transport characteristics of impacted streams near Mount St. Helens, the U.S. Geological Survey collected sediment data at gaging stations in the Cowlitz and Lewis River basins during this period. Three types of sediment data are presented for each gaging station:

(1) Daily suspended-sediment discharges;
(2) Particle-size distributions, concentrations, water and sediment discharges, and water temperatures, for instantaneous suspended-sediment samples; and
(3) Particle-size distributions of bed material samples.

Standard methods of sediment data collection and analysis were used. Sediment data were collected on a biweekly or monthly schedule during normal river flows and at hourly intervals during many storm periods. Hazardous stream conditions hindered data collection during some storm flows, and shifting streambeds limited the accuracy of storm-period sediment discharges.

# INTRODUCTION

Two major river basins in Washington State, the Cowlitz River and Lewis River basins, were affected by excessive sediment loads following the May 18, 1980, eruption of Mount St. Helens. The Cowlitz River **drainage basin**[1] has an area of 2,480 $mi^2$ and includes the Toutle River basin, which was severely altered by the eruption and was inundated by mudflows. Prior to the eruption, the Toutle River was a typical Cascades Range stream, having a cobble bed, forested watershed, and headwaters at several glaciers. Devastation of the upper basin by the volcanic blast, the massive collapse of the volcano's north face into the North Fork Toutle River valley, and deposits from the resulting debris flows and mudflows provided enormous supplies of **sediment** for transport. Storm flows immediately eroded large volumes from the debris avalanche and mudflow deposits, and induced widespread collapse of unprotected bank material along the Toutle River. Gullying and channel extension on the North Fork Toutle River debris avalanche made additional volumes of sediment available for transport in subsequent years (Meyer and Janda, 1985). Intensive and periodic sediment sampling began in the Toutle River basin immediately following the eruption.

During water years 1981-83, the average annual **suspended-sediment yield** measured at Toutle River at Tower Road near Silver Lake, Wash., was 74,000 tons $mi^{-2}$. During water years 1984-87, the average annual yield decreased to 26,600 tons $mi^{-2}$. Annual suspended-sediment yields from other affected streams near Mount St. Helens decreased during the same period. The annual **suspended-sediment discharge** totals for each long-term **gaging station** are summarized in Table 1. The obvious decrease in annual yields is primarily the result of natural recovery processes, but the decrease also has been affected by sediment control measures and short-term climatic variability (Childers and Janda, 1987). Most of the Toutle River sediment yield comes from about one-third of the 512 $mi^2$ drainage basin.

The Lewis River basin has a drainage area of 1,046 $mi^2$. The headwaters of several tributaries to the Lewis River are on Mount St. Helens. Two tributaries, the Muddy River and Pine Creek, were inundated by mudflows during the May 18, 1980, eruption (Christiansen and Peterson, 1981; Pierson, 1985). The Clearwater River basin, while not affected by mudflows, received heavy **tephra** deposits with the eruption blast. Annual suspended-sediment yields for the Muddy River, Pine Creek, Clearwater Creek, and other Lewis River tributaries increased from pre-eruption levels. Swift Reservoir, on the Lewis River, is downstream from these tributaries, and most of the mudflow sediment was deposited there.

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[1]Terms defined in the glossary are in bold print where first used in the main body of this report.

TABLE 1.--*Summary of annual suspended-sediment discharge totals (English tons)*

| | 14216300 Clearwater Creek near mouth near Cougar | 14216500 Muddy River below Clear Creek near Cougar[1] | 14240800 Green River above Beaver Creek near Kid Valley | 14241100 North Fork Toutle River at Kid Valley | 14241490 South Fork Toutle River at Camp 12 near Toutle | 14242580 Toutle River at Tower Road near Silver Lake | 14216900 Pine Creek at mouth near Cougar | 14243000 Cowlitz River at Castle Rock |
|---|---|---|---|---|---|---|---|---|
| 1982 | --- | 3,790,000 | 495,000 | 34,400,000 | 1,450,000 | 40,700,000 | 712,000 | 36,600,000 |
| 1983 | 572,000 | 3,090,000 | 181,000 | 29,300,000 | 1,620,000 | 39,700,000 | 257,000 | 34,000,000 |
| 1984 | 122,000 | 1,500,000 | 209,000 | 22,100,000 | 476,000 | 24,700,000 | 396,000 | 25,300,000 |
| 1985 | 33,700 | 339,000 | 36,100 | 9,120,000 | 41,500 | 9,370,000 | --- | --- |
| 1986 | 98,600 | 903,000 | 277,000 | 7,990,000 | 189,000 | 7,630,000 | --- | --- |
| 1987 | 141,000 | 1,120,000 | 78,800 | 6,950,000 | 606,000 | 8,770,000 | --- | --- |

[1] 1982 and 1983 totals from 14216350--Muddy River above Clear Creek near Cougar, Wash. Sediment discharge from Clear Creek is negligible.

Problems that high sediment yields from the Mount St. Helens area have created are discussed in other publications (Dunne and Leopold, 1981; U.S. Army Corps of Engineers, 1981; Cowlitz County, 1983). To provide daily **sediment discharge** values and to document the sediment-transport characteristics of impacted streams near Mount St. Helens, the U.S. Geological Survey (USGS) collected sediment data on a regular basis at a number of gaging stations. The station locations are shown in Figure 1. Some stations were operated discontinuously during water years 1984-87. Sediment data for water year 1980 are presented in OFR 81-822 (Dinehart and others, 1981), and sediment data for water years 1981-83 are presented in OFR 85-632 (Dinehart, 1986). This report presents fluvial sediment data collected from October 1983 through September 1987 at streams affected by the 1980 eruptions of Mount St. Helens.

Sediment transport data have also been released in other Open-File Reports (see for example, Dinehart, 1987; Childers and others, 1988; Hammond, 1989). Miscellaneous sediment transport observations made during water years 1984-87 are not presented here, including: **bedload** measurements, statistical relations of water and suspended-sediment discharge, and detailed sediment investigations at miscellaneous sites. Information on the availability of unpublished data or statistical analyses may be obtained from the U.S. Geological Survey, Water Resources Division, Cascades Volcano Observatory, 5400 MacArthur Boulevard, Vancouver, Washington, 98661.

## Description of Mount St. Helens Area

Mount St. Helens is an active volcano located on the westward side of the Cascade Range in southwest Washington State. The landslide and volcanic blast of the May 18, 1980, eruption devastated a 232 $mi^2$ area north of the mountain by destroying vegetation and depositing volcanic debris (Christiansen and Peterson, 1981). Mudflow, tephra, and blast deposits were also emplaced in several drainages south and east of the mountain.

Altitudes in the Mount St. Helens area range from 8,365 ft at the present summit of Mount St. Helens to less than 10 ft above sea level at the mouth of the Cowlitz River. Annual precipitation in the Mount St. Helens area ranges from 45 inches at Kelso, Wash., to 140 inches at the summit of Mount St. Helens (U.S. Weather Bureau, 1965). At high altitudes, precipitation usually falls as snow from November through March and as rain during the rest of the year. Winter floods are caused by intense rainstorms and rainfall on snow. Streamflow from all sides of the mountain eventually flows to the Columbia River by the Cowlitz, Kalama, and Lewis Rivers.

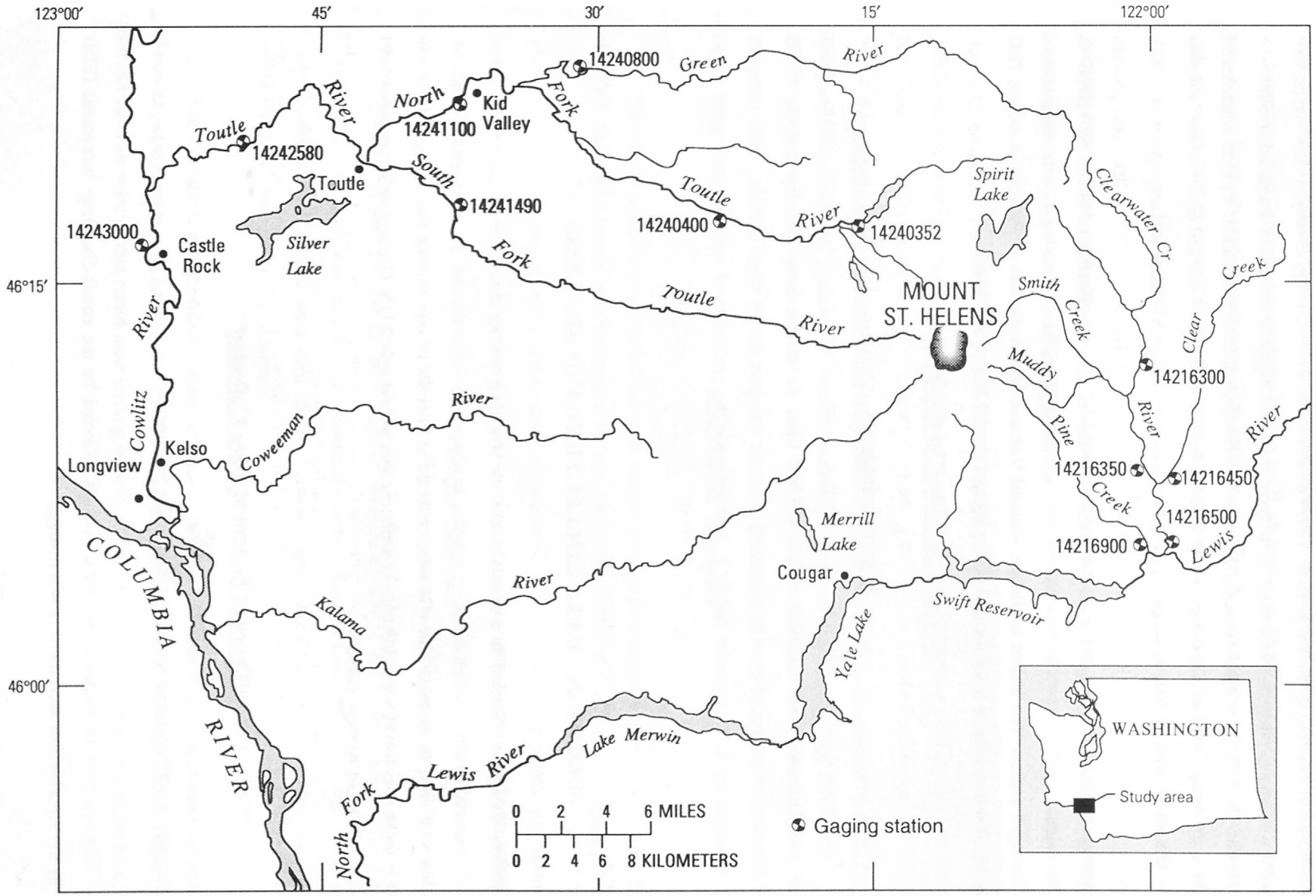


**Figure 1.--Location of gaging stations on streams in Mount St. Helens area.**

Most of the Mount St. Helens area is rural or forested and is sparsely populated. Nearest the mountain are the small towns of Kid Valley, Toutle, and Cougar. The more populous towns of Castle Rock, Kelso and Longview are farther downstream on the Cowlitz River, where the flood hazard was believed increased by the potential for sediment aggradation from the Toutle River. A sediment-retention dam was constructed on the North Fork Toutle River by the U.S. Army Corps of Engineers, which began retaining sediment in November 1987 (after the data presented in this report were collected).

Heavily forested areas near the mountain had been used for outdoor recreation and timber harvesting. Following the eruption, public access to the mountain was curtailed temporarily and logging activity was increased to salvage damaged timber. The Mount St. Helens National Volcanic Monument was established in August 1982 to protect a 110,000-acre area of scientific and public interest around Mount St. Helens.


## Acknowledgments

The completeness of the sediment records resulted from the extraordinary attention that the USGS Hydrologic Surveillance personnel gave to measuring sediment transport during storm periods. New computer procedures developed by S. D. Finneran and W.P. Johnson made the processing of sediment data easier for all involved.


# SEDIMENT DATA COLLECTION AND ANALYSIS

Sediment data were collected on a biweekly schedule at gaging stations during normal river flow. Storm runoff usually required a more frequent sampling schedule to adequately define the change of **suspended-sediment concentration** with time, so samples generally were collected at intervals of one hour or less during many storm periods. Field techniques used for the collection of sediment data were standard U.S. Geological Survey procedures as described by Guy and Norman (1970).

## Types of Sediment Data Collected

The types of sediment data routinely collected are listed below.

1. Cross-sections of suspended-sediment samples collected by the **equal-discharge increment** (EDI) method or by the **equal-width increment** (EWI) method;

2. Samples collected at a single **sampling vertical** by U.S. Geological Survey personnel;

3. Samples collected at a single sampling vertical by observers (private citizens instructed by U.S. Geological Survey personnel in collection of suspended-sediment samples);

4. Fixed-point samples collected by **automatic pumping samplers**; and

5. Bed material samples collected at several sampling verticals (usually determined by the EDI method) in conjunction with suspended-sediment measurements.

## Methods of Sediment Analysis

Suspended-sediment concentrations and **particle-size distributions** were determined by the U.S. Geological Survey sediment laboratory (Vancouver, Wash.), according to methods described by Guy (1969).

### Sand-break Analyses

Sand-break analyses of suspended-sediment samples give the percentage of sediment by weight that is finer than 0.062 mm. Sand breaks were determined for samples having sufficient sand, and were usually done by wet sieving.

### Particle-size Analyses

Particle-size analyses give the percentage of sediment by weight that is finer than a given **fall** or **sieve diameter**. Pipet analysis was used for the suspended-sediment fraction finer than 0.062 mm. Wet sieving or visual-accumulation (VA) tubes were used for the fraction coarser than 0.062 mm. Samples were analyzed in distilled water and were chemically dispersed.

The VA tube is a water-filled column equipped to measure **fall velocities** of **suspended sediment**, and is acknowledged to provide more meaningful particle-size distributions than wet sieving (Guy, 1969). However, pumice particles have air vesicles that retard their settling velocity in the VA tube (which is calibrated for particles with

**specific gravity** 2.65) and cause the percentage of fine particles to be over-represented (Smith and Smith, 1985). This property prevented the use of the VA tube for suspended-sediment samples having visually-significant amounts of pumice.

Bed material samples were dried and sieved to obtain particle-size distributions. Observers' samples and automatic pumping samples were usually analyzed for sediment concentration only (no particle size or sand break).

## Computation of Daily Suspended-Sediment Discharge

Techniques for the computation of suspended-sediment discharge are described by Porterfield (1972). Suspended-sediment discharge is computed by the formula:

$$Q_s = 0.0027 \times Q_w \times C$$

where

$Q_S$ = suspended-sediment discharge (tons $day^{-1}$);

$Q_W$ = water discharge ($ft^3s^{-1}$); and

$C$ = mean concentration ($mgL^{-1}$),

and where 0.0027 is a conversion factor for inch-pound units.

Daily suspended-sediment discharge represents the total tons of suspended sediment (inch-pound units, dry weight) that passed the stream-measuring transect in one day. The most accurate sediment discharges are obtained when all available sediment concentrations are plotted against time, and the coincident water discharge is used to compute the sediment discharge. Examples of sediment-concentration graphs are shown in figures 2 to 6. If there is substantial variation in the sediment concentration or water discharge, the daily period is subdivided into smaller time increments; otherwise, the daily mean sediment concentration is used with the daily mean discharge to compute the daily suspended-sediment discharge. When no samples were available, the suspended-sediment concentration curve was interpolated. For periods where interpolation was insufficient to define a suspended-sediment concentration curve, plots of suspended-sediment discharge against water discharge ("sediment transport curves") were used to derive the daily suspended-sediment discharge.

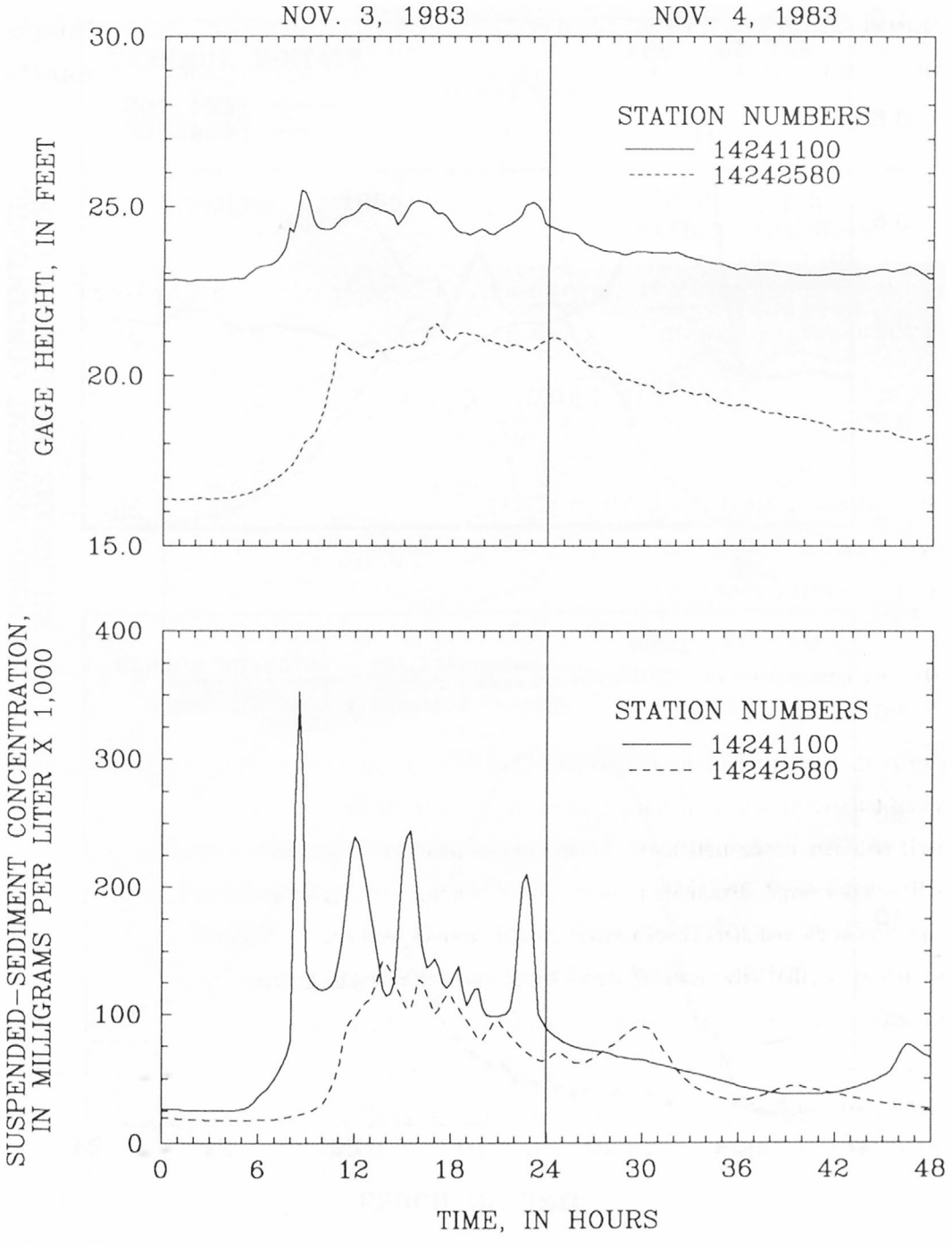


Figure 2.--Suspended-sediment concentration and stream discharge hydrograph, Nov. 3-4, 1983, for North Fork Toutle River at Kid Valley, Wash. (14241100) and Toutle River at Tower Road near Silver Lake, Wash. (14242580).

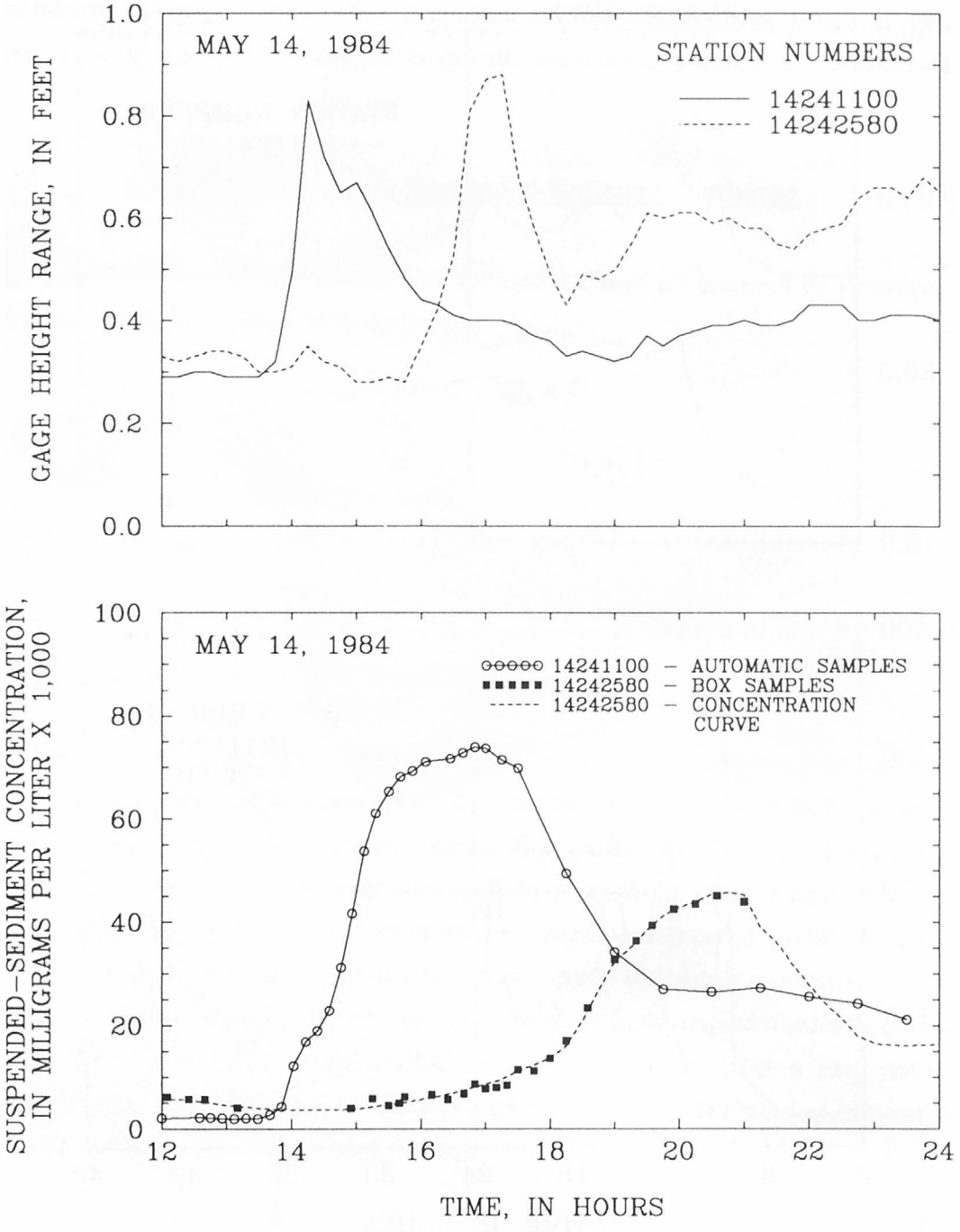


Figure 3.--Gage height and suspended-sediment concentration hydrograph, May 14, 1984, for North Fork Toutle River at Kid Valley (14241100) and Toutle River at Tower Road near Silver Lake, Wash. (14242580).

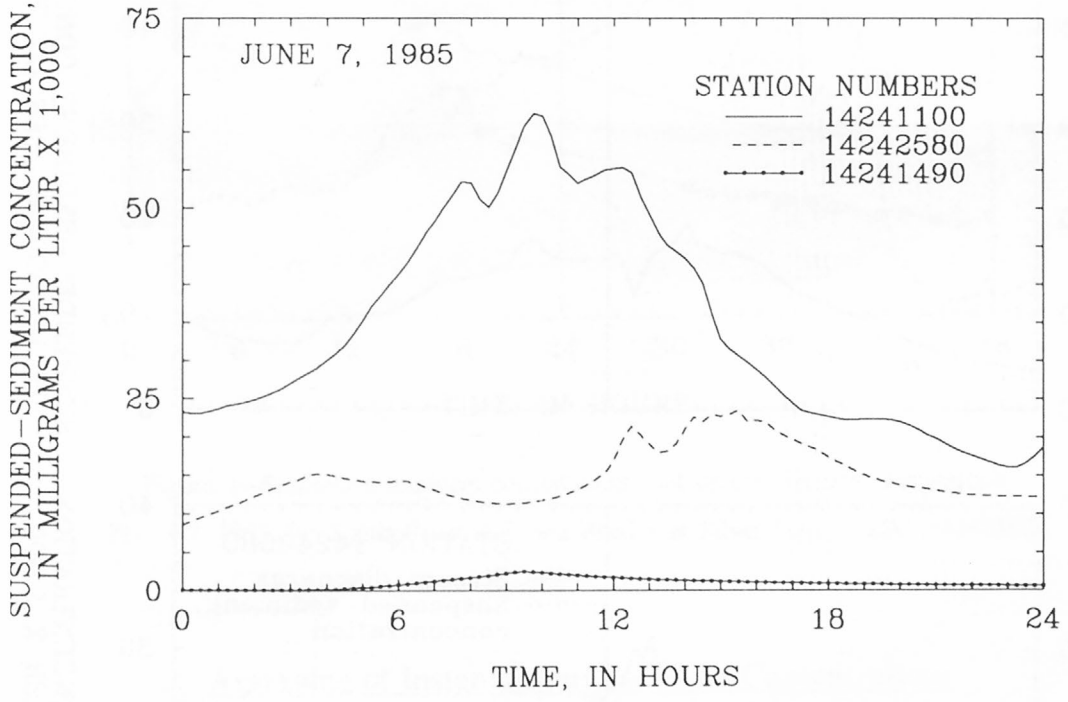


Figure 4.--Suspended-sediment concentration hydrograph, June 7, 1985, for North Fork Toutle River at Kid Valley, Wash. (14241100), South Fork Toutle River at Camp 12 near Toutle, Wash. (14241490), and Toutle River at Tower Road near Silver Lake, Wash. (14242580).

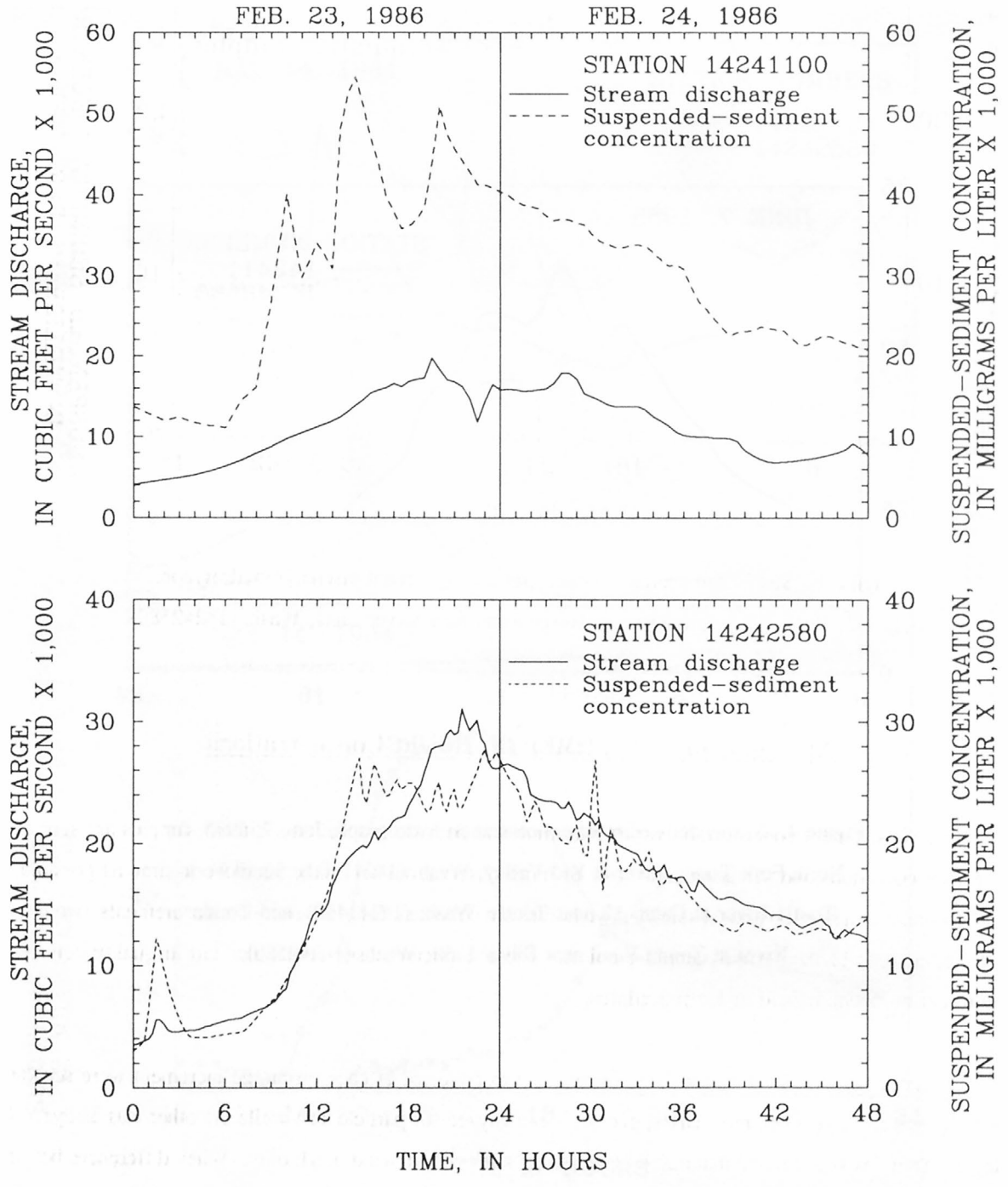


Figure 5.--Suspended-sediment concentration and stream discharge hydrograph, Feb. 23-24, 1986, for North Fork Toutle River at Kid Valley, Wash. (14241100) and Toutle River at Tower Road near Silver Lake, Wash. (14242580).

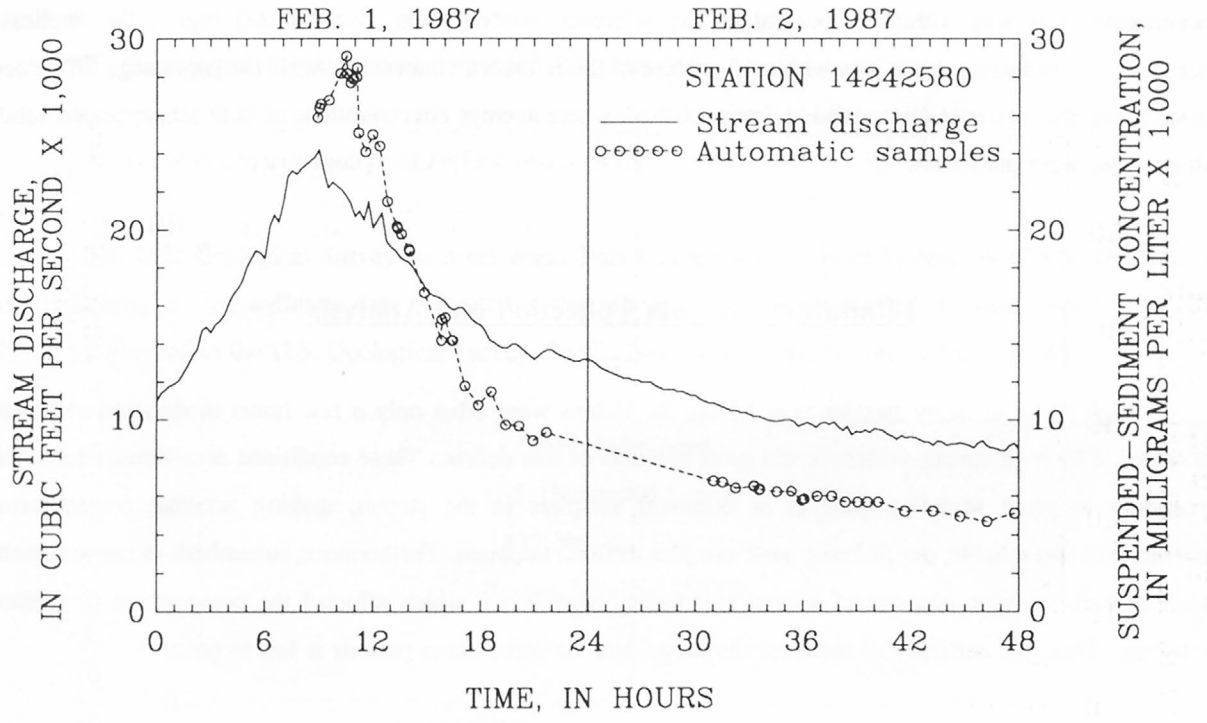


Figure. 6--Suspended-sediment concentration and stream discharge hydrograph, Feb. 1-2, 1987, for Toutle River at Tower Road near Silver Lake, Wash. (14242580).

## Averaging of Instantaneous Sediment Concentrations

Because sediment concentration varies with time and because suspended-sediment samples are subject to erratic stream conditions and sampling error, two or more observations are made, as close in time as possible, to define a sample. For a **single-vertical sample**, two bottles are collected; for cross-section measurements, two bottles are collected at each of the several sampling points. These duplicate observations also aid in quality control by helping to detect errors in field or lab procedures.

Cross-section samples that consisted of two bottles collected at each discharge increment were separated into two representative sets. In most cases, one set was analyzed for particle size while the other was analyzed for sand break. Samples with limited material (< 1 gm) were analyzed for sand break only. When differences between average concentrations of both sets were not caused by obvious procedural errors, the concentrations were averaged if the percentage difference between the "reference" and "duplicate" sets was within certain, arbitrary limits. The reference concentration was considered to be the analysis with the least division of material by the lab (for example, a sample with a sand-break analysis is divided less than a sample with a complete particle-size analysis). For

concentrations under 10,000 $mgL^{-1}$, a second (duplicate) concentration was averaged with the first (reference) concentration if it was within 25 percent of the reference concentration; over 10,000 $mgL^{-1}$, the duplicate concentration was averaged if it was within 15 percent of the reference concentration. If the percentage difference was too great, the reference concentration was published; where average concentrations of both sets appeared valid, both analyses were published.

## Limitations in Data Collection and Analysis

High flows in many streams near Mount St. Helens were often only a few hours in duration and were accompanied by high stream velocities and great amounts of tree debris. These conditions sometimes limited the opportunity to place sounding weights or sediment samplers in the stream, making accurate current-meter measurements and reliable, **depth-integrated samples** difficult to obtain. Furthermore, streambeds in this area were subject to bed elevation changes of several feet during high flows, which affected the computation of **stream discharge**. Thus, the accuracy of sediment discharge data for some storm periods is fair to poor.

## Examples of Storm Hydrographs

Selected storm hydrographs of gage height, stream discharge, and suspended-sediment concentration in the Toutle River basin are presented in figures 2 to 6. The hydrographs show significant storm flows where suspended-sediment concentration curves were well-defined by automatic sampling and cross-section samples. Figure 3 shows gage height and sediment concentrations at two gaging stations during the passage of a flow generated on May 14, 1984, from an eruptive event in the crater of Mount St. Helens (Pringle and Cameron, 1986).

# EXPLANATION OF SEDIMENT DATA TABLES

Sediment data from gaging stations near Mount St. Helens are presented by station in downstream order. Basic descriptions are given for each gaging station. Graphs of cumulative daily suspended-sediment discharge and daily mean water discharge are provided on the station description pages to show major sediment transport episodes during water years 1984-87 (figs. 7-11). Then, three types of data tables for water years 1984-87 are presented, with data in each table in chronological order. The tables are:

1. Daily suspended-sediment discharge;

2. Particle-size distribution of suspended sediment; and

3. Particle-size distribution of surface bed material.

The U.S. Geological Survey National Water Data Storage and Retrieval System (WATSTORE) was used as a repository for the sediment data presented in this report. Inquiries about obtaining data from WATSTORE should be directed to the U.S. Geological Survey, Pacific Northwest District office in Tacoma, Wash., or to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

## Daily Suspended-Sediment Discharge: Tables

Suspended-sediment discharge tables list daily water discharge, daily mean suspended-sediment concentration, and daily suspended-sediment discharge. Mean concentration is listed only for days when suspended-sediment samples were collected; a blank indicates that the suspended-sediment discharge was estimated. When daily suspended-sediment discharge is computed by subdivision, the product of water discharge, mean concentration, and the conversion factor (0.0027), may not equal the suspended-sediment discharge. This difference occurs because subdivision gives a more representative weighting of time increments than mean values do, for periods of peak flow.

## Particle Size of Suspended Sediment: Tables

Instantaneous suspended-sediment concentrations are listed with the concurrent water discharge, water temperature, number of sampling points in the cross section that the sample represents, the sampling-method code, and the results of any particle-size analyses.

Particle-size headings include Fall Diameter and Sieve Diameter. Some samples have information listed for both types of analyses. Equal-width increment (EWI) cross-section samples are denoted in the tables by Sampling-Method Code "10"; equal-discharge increment (EDI) cross-section samples are denoted by Sampling-Method Code "20." Tables with two pages of particle-size parameters are arranged on facing pages.

## Particle Size of Surface Bed Material: Tables

Bed material samples from a cross-section measurement are given as individual analyses. The sample for each vertical of the cross-section is listed in a group of proximal times for one day, most often in groups of five. The number of bed material sampling points may not equal the number of concurrent suspended-sediment sampling points because the surface bed material could not be sampled at some verticals.

Surface bed material was sampled using a U.S. BM-54 sampler (F.I.A.S.P., 1964). The sampler rotates a 175 $cm^3$ bucket into the streambed to a depth of 4.3 cm (1.7 in). Sand and fine gravel can be sampled without loss of material, but larger gravel and cobbles can cause incomplete closure of the scoop. Predominantly coarse material or a bed armored with imbricated cobbles can prevent proper operation of the U.S. BM-54 sampler, and a sample may not have been taken at those points. Therefore, the bed material data represent only points of equal-discharge increments where samples could be collected. The bed material data should be used with the limitation in mind that the coarser bed material is not fully represented.

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# GLOSSARY

The following are definitions of terms used in this report. Most are adapted from the "National Handbook of Recommended Methods for Water Data Acquisition" (Office of Water Data Coordination, 1977).

**Automatic pumping sampler.**--A sediment sampler with an intake placed at a desired sampling point where the water-sediment mixture is withdrawn through a pipe or hose. Samples are usually collected at regular, predetermined intervals, but can be collected on a river stage-dependent basis. U.S. Geological Survey model PS-69 pumping samplers were used at Mount St. Helens area gaging stations.

**Bedload.**--Sedimentary material moving on or near the streambed by rolling, sliding, and becoming intermittently suspended in the flow a few grain diameters above the bed.

**Depth-integrated sample.**--A discharge-weighted (velocity-weighted) sample of water-sediment mixture collected at one or more verticals in accordance with the technique of depth integration.

**Depth integrating, suspended-sediment sampler.**--An instrument capable of collecting a water-sediment mixture isokinetically as its intake is traversed across the flow: hence, a sampler suitable for performing depth integration.

**Depth integration.**--A method of sampling at every point throughout the sampled depth, whereby a water-sediment mixture is collected so that the contribution to the sample from each point is proportional to the stream velocity at the point.

**Drainage basin.**--The area tributary to or draining to a lake, stream, or measuring site.

**Equal-discharge increment (EDI) method.**--A procedure for obtaining the discharge-weighted suspended-sediment concentration of flow at a transect by: (1) performing depth integration at the centers of equal-flow segments across the transect, and (2) using a vertical transit rate at each sampling vertical that provides equal sample volumes from all flow segments.

**Equal-width increment (EWI) method.**--A procedure for obtaining the discharge-weighted suspended-sediment concentration of flow at a transect by: (1) performing depth integration at a series of verticals equally spaced across the transect, and (2) using the same vertical transit rate at all sampling verticals.

**Fall diameter.**--The diameter of a sphere that has a specific gravity of 2.65 and has the same standard fall velocity as the particle.

**Fall velocity.**--The falling or settling rate of a particle in a given medium.

**Gaging station.**--A selected cross section of a stream channel where one or more variables is measured continuously or periodically to index discharge and other parameters.

**Lahar-runout flow.**--Streamflow that evolves from a lahar (volcanic debris flow or mudflow). The flow mixture contains from 40 to 80 percent sediment by weight, which corresponds to concentrations of 530,000 to 1,590,000 $mgL^{-1}$.

**Particle size.**--A linear dimension, usually designated as "diameter," used to characterize the size of a particle.

**Particle-size distribution.**--The frequency distribution of the relative amounts of particles in a sample that are within specified size ranges, or a cumulative frequency distribution of the relative amounts of particles coarser or finer than specified sizes. Relative amounts are expressed in this report as percentages by metric weight.

**Sampling vertical.**--An approximately vertical path from the water surface to the streambed, along which one or more samples are collected to define various properties of the flow, such as sediment concentration.

**Sediment.**--Particles derived from rocks or biological materials that have been transported by a fluid.

**Sediment discharge.**--The weight or volume of sediment passing a stream transect in a unit of time. The term may be qualified, for example, as suspended-sediment discharge, bedload discharge, or total-sediment discharge. Instantaneous sediment discharge is the quantity of sediment passing a stream transect at the time the sediment sample is collected. Daily sediment discharge is the quantity of sediment passing a stream transect on that day. In this report, instantaneous and daily quantities are expressed as inch-pound units of weight in tons per day.

**Sieve diameter.**--The smallest standard sieve opening through which a particle of sediment will pass.

**Single-vertical sample.**--A depth-integrated sample collected at only one sampling vertical in the cross section of a stream.

**Specific gravity.**--Ratio of the mass of any volume of a substance to the mass of an equal volume of water at 4°C. The specific gravity of quartz sediment particles is 2.65.

**Stream discharge.**--The quantity of flow passing a stream transect in a unit of time. The flow quantity includes dissolved solids and sediment.

**Suspended sediment.**--Sediment that is carried in suspension by the turbulent components of the fluid.

**Suspended-sediment concentration.**--The ratio of the mass (nominally equivalent to weight in the metric system) of dry sediment in a water-sediment mixture to the mass of the mixture. This ratio is expressed in this report as milligrams per liter. Calculation of suspended-sediment discharge from concentration includes a gravity term to express weight in tons; in inch-pound units, the term "mass" is not equivalent to "weight."

**Suspended-sediment discharge.**--The quantity of suspended sediment passing a transect in a unit of time, expressed in this report in inch-pound units as weight in tons per day.

**Suspended-sediment sample.**--A quantity of water-sediment mixture or deposited sediment that is collected to characterize some property or properties of the sampled medium.

**Suspended-sediment yield.**--The total sediment outflow from a drainage basin in a specific period of time. It can include bedload as well as suspended load and is expressed in this report as inch-pound units of weight in tons per unit of land area.

**Tephra.**--Molten or solid volcanic materials, including ash, lapilli, pumice, bombs, and blocks, which are ejected into the air during a volcanic eruption.

**Total-sediment discharge.**--The total quantity of sediment passing a section in a unit of time. This quantity is usually computed by mathematical methods using sediment and hydraulic data collected at the stream transect.

**Transect, stream.**--A sample area, cross section, or line across a stream channel chosen as the basis for studying one or more characteristics of a stream.

**Water discharge.**--The quantity of water passing a stream transect in a unit of time. As sediment concentration increases in the stream, the stream discharge becomes greater than the water discharge. For computing sediment discharge in this study, the measured stream discharge was assumed equal to the water discharge. See stream discharge.

## 14216300 CLEARWATER CREEK NEAR MOUTH NEAR COUGAR, WA

**LOCATION.**--Lat 46°12′07″, long 122°00′54″, in SW ¼ NW ¼ sec. 1, T.8 N., R.6 E., Skamania County, Hydrologic Unit 17080002, Gifford Pinchot National Forest, 3 mi upstream from mouth, and 17.0 mi northeast of Cougar.

**DRAINAGE AREA.**--33 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--October 1981 through September 1987.

**GAGE.**--Water-stage recorder. Altitude of gage is 1,520 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Nov. 21, 1980 | 1120 | 5,240 |
| 1982 | Feb. 16, 1982 | 1403 | 3,980 |
| 1983 | Dec. 27, 1982 | 1405 | 941 |
| 1984 | Nov. 16, 1984 | 1415 | 3,850 |
| 1985 | Jun. 8, 1985 | 1340 | 395 |
| 1986 | Feb. 27, 1986 | 1500 | 706 |
| 1987 | Feb. 4, 1987 | 1315 | 733 |

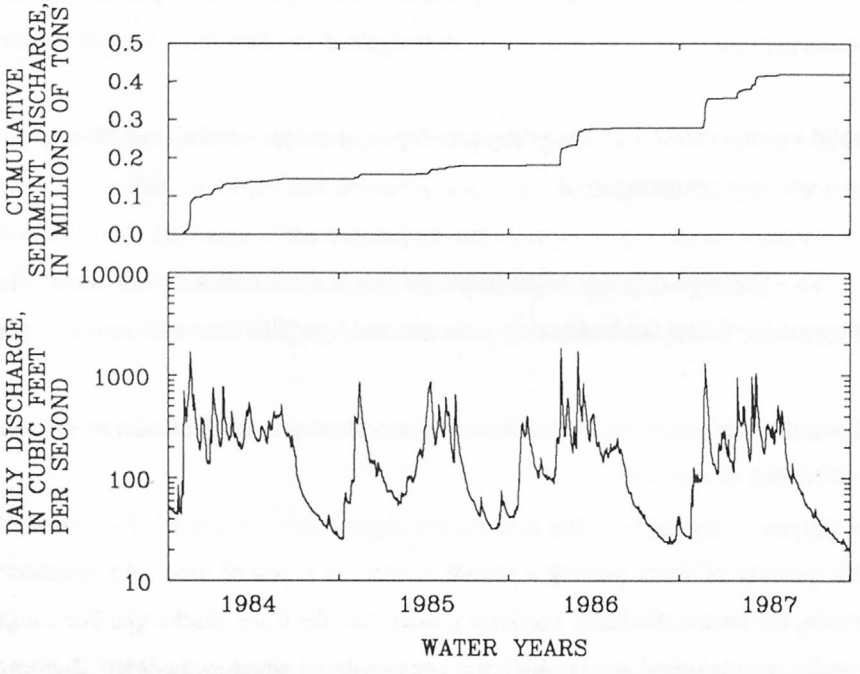


Figure 7.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, Clearwater Creek near mouth near Cougar, Wash. (14216300).

14216300 CLEARWATER CREEK NEAR MOUTH NEAR COUGAR, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 52 | 6 | 0.84 | 70 | 126 | 24 | 283 | --- | 180 |
| 2 | 52 | 10 | 1.4 | 159 | 773 | 356 | 257 | --- | 150 |
| 3 | 52 | 7 | .98 | 698 | 2,910 | 5,480 | 235 | --- | 130 |
| 4 | 52 | 3 | .42 | 516 | 840 | 1,170 | 220 | --- | 110 |
| 5 | 51 | 5 | .69 | 408 | 585 | 644 | 221 | --- | 90 |
| 6 | 49 | 7 | .93 | 475 | 655 | 840 | 200 | --- | 75 |
| 7 | 49 | 6 | .79 | 434 | 291 | 341 | 187 | 114 | 58 |
| 8 | 49 | 5 | .66 | 386 | 277 | 289 | 202 | --- | 70 |
| 9 | 49 | 4 | .53 | 350 | 254 | 240 | 235 | --- | 100 |
| 10 | 48 | 4 | .52 | 437 | 1,370 | 1,620 | 389 | --- | 1,000 |
| 11 | 47 | 5 | .63 | 566 | 1,590 | 2,430 | 362 | --- | 900 |
| 12 | 46 | 5 | .62 | 576 | 610 | 949 | 343 | --- | 800 |
| 13 | 46 | 4 | .50 | 598 | 517 | 835 | 365 | --- | 800 |
| 14 | 46 | 3 | .37 | 703 | 901 | 1,880 | 377 | --- | 700 |
| 15 | 45 | 4 | .49 | 1,080 | 3,230 | 9,420 | 348 | --- | 500 |
| 16 | 45 | 6 | .73 | 1,490 | 4,160 | 16,700 | 314 | --- | 300 |
| 17 | 46 | 8 | .99 | 1,680 | 5,040 | 35,300 | 283 | --- | 200 |
| 18 | 45 | 10 | 1.2 | 1,300 | 1,360 | 4,770 | 257 | --- | 150 |
| 19 | 44 | 9 | 1.1 | 1,050 | --- | 3,500 | 229 | --- | 100 |
| 20 | 44 | 10 | 1.2 | 881 | --- | 2,500 | 197 | --- | 80 |
| 21 | 44 | 14 | 1.7 | 684 | --- | 1,500 | 160 | --- | 70 |
| 22 | 85 | 114 | 26 | 542 | --- | 750 | 147 | --- | 60 |
| 23 | 54 | 33 | 4.8 | 454 | --- | 500 | 138 | --- | 50 |
| 24 | 49 | 11 | 1.5 | 641 | --- | 2,000 | 139 | --- | 50 |
| 25 | 48 | 14 | 1.8 | 571 | --- | 1,000 | 144 | --- | 45 |
| 26 | 47 | 14 | 1.8 | 506 | --- | 700 | 138 | --- | 40 |
| 27 | 46 | 17 | 2.1 | 454 | --- | 500 | 137 | --- | 35 |
| 28 | 45 | 14 | 1.7 | 403 | --- | 350 | 137 | --- | 30 |
| 29 | 45 | 12 | 1.5 | 355 | 264 | 253 | 202 | --- | 200 |
| 30 | 92 | 84 | 21 | 322 | --- | 200 | 290 | --- | 500 |
| 31 | 68 | 64 | 12 | --- | --- | --- | 262 | --- | 400 |
| TOTAL | 1,580 | --- | 91.49 | 18,789 | --- | 97,041 | 7,398 | --- | 7,973 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 219 | --- | 300 | 321 | 159 | 138 | 222 | 86 | 52 |
| 2 | 262 | --- | 600 | 291 | 127 | 100 | 218 | 39 | 23 |
| 3 | 626 | --- | 3,000 | 272 | 108 | 79 | 206 | --- | 20 |
| 4 | 751 | --- | 4,000 | 263 | 106 | 75 | 196 | --- | 20 |
| 5 | 713 | --- | 2,500 | 254 | 79 | 54 | 189 | --- | 20 |
| 6 | 638 | --- | 1,500 | 246 | 85 | 56 | 196 | 40 | 21 |
| 7 | 569 | --- | 1,000 | 233 | 76 | 48 | 196 | 52 | 28 |
| 8 | 497 | --- | 600 | 238 | 84 | 54 | 210 | 48 | 27 |
| 9 | 422 | 310 | 353 | 242 | 110 | 72 | 225 | 105 | 64 |
| 10 | 432 | 262 | 306 | 250 | 87 | 59 | 250 | 98 | 66 |
| 11 | 407 | 261 | 287 | 254 | 100 | 69 | 263 | 83 | 59 |
| 12 | 382 | 259 | 267 | 400 | 272 | 294 | 321 | 300 | 260 |
| 13 | 342 | 254 | 235 | 439 | 221 | 262 | 342 | 174 | 161 |
| 14 | 291 | 225 | 177 | 400 | 131 | 141 | 388 | 267 | 280 |
| 15 | 265 | 200 | 143 | 370 | 106 | 106 | 426 | 122 | 140 |
| 16 | 246 | 194 | 129 | 331 | 108 | 97 | 446 | 180 | 217 |
| 17 | 225 | --- | 120 | 291 | 102 | 80 | 453 | 135 | 165 |
| 18 | 210 | --- | 100 | 268 | 91 | 66 | 432 | 94 | 110 |
| 19 | 203 | --- | 80 | 246 | --- | 50 | 400 | 78 | 84 |
| 20 | 199 | --- | 70 | 263 | --- | 60 | 446 | 191 | 230 |
| 21 | 199 | --- | 70 | 272 | --- | 60 | 541 | 324 | 473 |
| 22 | 222 | --- | 100 | 259 | --- | 50 | 525 | 128 | 181 |
| 23 | 259 | --- | 500 | 250 | --- | 45 | 510 | 116 | 160 |
| 24 | 525 | --- | 2,000 | 246 | --- | 40 | 466 | 93 | 117 |
| 25 | 778 | --- | 5,000 | 233 | --- | 35 | 426 | 82 | 94 |
| 26 | 717 | --- | 1,000 | 222 | --- | 30 | 407 | 77 | 85 |
| 27 | 767 | --- | 700 | 210 | --- | 25 | 342 | 76 | 70 |
| 28 | 466 | --- | 500 | 210 | --- | 25 | 331 | 61 | 55 |
| 29 | 394 | --- | 300 | 203 | 56 | 31 | 306 | 63 | 52 |
| 30 | 365 | 217 | 214 | --- | --- | --- | 286 | 64 | 49 |
| 31 | 348 | 192 | 180 | --- | --- | --- | 277 | 67 | 50 |
| TOTAL | 12,939 | --- | 26,331 | 7,977 | --- | 2,301 | 10,442 | --- | 3,433 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 272 | 42 | 31 | 277 | 462 | 346 | 370 | 102 | 102 |
| 2 | 259 | 40 | 28 | 359 | 1,220 | 1,180 | 342 | 83 | 77 |
| 3 | 254 | 40 | 27 | 348 | 183 | 172 | 321 | 66 | 57 |
| 4 | 246 | 48 | 32 | 342 | 118 | 109 | 311 | 69 | 58 |
| 5 | 246 | 55 | 37 | 326 | 99 | 87 | 296 | 64 | 51 |
| 6 | 233 | 33 | 21 | 301 | 103 | 84 | 286 | 82 | 63 |
| 7 | 238 | 50 | 32 | 291 | 113 | 89 | 272 | 74 | 54 |
| 8 | 229 | 33 | 20 | 291 | 110 | 86 | 277 | 50 | 37 |
| 9 | 229 | 50 | 31 | 296 | 85 | 68 | 263 | 43 | 31 |
| 10 | 229 | 31 | 19 | 296 | 76 | 61 | 254 | 47 | 32 |
| 11 | 225 | 34 | 21 | 337 | 168 | 153 | 254 | 44 | 30 |
| 12 | 242 | 46 | 30 | 382 | 202 | 208 | 263 | 203 | 144 |
| 13 | 233 | 33 | 21 | 420 | 292 | 331 | 272 | 256 | 188 |
| 14 | 259 | 129 | 90 | 439 | 286 | 339 | 267 | 136 | 98 |
| 15 | 301 | 170 | 138 | 426 | 188 | 216 | 267 | 88 | 63 |
| 16 | 311 | 266 | 223 | 388 | 120 | 126 | 254 | 68 | 47 |
| 17 | 316 | 270 | 230 | 382 | 84 | 87 | 229 | 68 | 42 |
| 18 | 316 | 153 | 131 | 376 | 75 | 76 | 214 | 64 | 37 |
| 19 | 311 | 115 | 97 | 388 | 90 | 94 | 203 | 49 | 27 |
| 20 | 296 | 83 | 66 | 407 | 100 | 110 | 197 | 69 | 37 |
| 21 | 291 | 69 | 54 | 407 | 80 | 88 | 257 | 44 | 31 |
| 22 | 291 | 75 | 59 | 388 | 76 | 80 | 224 | 32 | 19 |
| 23 | 281 | 81 | 61 | 407 | 90 | 99 | 204 | 36 | 20 |
| 24 | 267 | 62 | 45 | 407 | 80 | 88 | 205 | 30 | 17 |
| 25 | 254 | 70 | 48 | 394 | 75 | 80 | 198 | 31 | 17 |
| 26 | 238 | 74 | 48 | 413 | 80 | 89 | 192 | 26 | 13 |
| 27 | 225 | 63 | 38 | 413 | 100 | 112 | 177 | 35 | 17 |
| 28 | 222 | 59 | 35 | 420 | 190 | 215 | 161 | 30 | 13 |
| 29 | 214 | 58 | 34 | 474 | 324 | 415 | 162 | 25 | 11 |
| 30 | 214 | 84 | 49 | 517 | 345 | 482 | 146 | 16 | 6.3 |
| 31 | --- | --- | --- | 446 | 150 | 181 | --- | --- | --- |
| TOTAL | 7,742 | --- | 1,796 | 11,758 | --- | 5,951 | 7,338 | --- | 1,439.3 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 109 | 14 | 4.1 | 50 | 2 | 0.27 | 34 | 2 | 0.18 |
| 2 | 103 | 13 | 3.6 | 49 | 2 | .26 | 34 | 2 | .18 |
| 3 | 100 | 11 | 3.0 | 48 | 3 | .39 | 33 | 2 | .18 |
| 4 | 98 | 13 | 3.4 | 48 | 3 | .39 | 32 | 2 | .17 |
| 5 | 94 | 10 | 2.5 | 47 | 2 | .25 | 36 | 5 | .49 |
| 6 | 90 | 10 | 2.4 | 46 | 4 | .50 | 42 | 7 | .79 |
| 7 | 88 | 9 | 2.1 | 46 | 3 | .37 | 43 | 6 | .70 |
| 8 | 84 | 8 | 1.8 | 46 | 3 | .37 | 43 | 6 | .70 |
| 9 | 80 | 8 | 1.7 | 45 | 4 | .49 | 38 | 6 | .62 |
| 10 | 76 | 7 | 1.4 | 44 | 3 | .36 | 36 | 6 | .58 |
| 11 | 73 | 6 | 1.2 | 44 | --- | .35 | 35 | 5 | .47 |
| 12 | 72 | 5 | .97 | 44 | --- | .35 | 34 | 3 | .28 |
| 13 | 70 | 4 | .76 | 44 | --- | .35 | 33 | 2 | .18 |
| 14 | 69 | 4 | .75 | 43 | --- | .35 | 31 | 2 | .17 |
| 15 | 67 | 3 | .54 | 43 | 4 | .46 | 31 | 1 | .08 |
| 16 | 65 | 4 | .70 | 42 | 4 | .45 | 31 | 4 | .33 |
| 17 | 64 | 4 | .69 | 42 | 2 | .23 | 30 | 4 | .32 |
| 18 | 63 | 3 | .51 | 42 | 4 | .45 | 29 | 1 | .08 |
| 19 | 62 | 3 | .50 | 39 | 4 | .42 | 29 | 2 | .16 |
| 20 | 60 | 3 | .49 | 39 | 4 | .42 | 29 | 4 | .31 |
| 21 | 59 | 2 | .32 | 39 | 4 | .42 | 28 | 3 | .23 |
| 22 | 58 | 2 | .31 | 38 | 4 | .41 | 30 | 1 | .08 |
| 23 | 57 | 2 | .31 | 38 | 4 | .41 | 30 | 2 | .16 |
| 24 | 56 | 3 | .45 | 38 | 4 | .41 | 30 | 1 | .08 |
| 25 | 56 | 3 | .45 | 37 | 3 | .30 | 29 | 1 | .08 |
| 26 | 55 | 3 | .45 | 35 | 3 | .28 | 28 | 6 | .45 |
| 27 | 54 | 4 | .58 | 35 | 4 | .38 | 27 | 4 | .29 |
| 28 | 53 | 3 | .43 | 35 | 3 | .28 | 27 | 1 | .07 |
| 29 | 52 | 3 | .42 | 34 | 3 | .28 | 26 | 4 | .28 |
| 30 | 51 | 2 | .28 | 34 | 4 | .37 | 26 | 1 | .07 |
| 31 | 50 | 2 | .27 | 34 | 3 | .28 | --- | --- | --- |
| TOTAL | 2,188 | --- | 37.38 | 1,288 | --- | 11.30 | 964 | --- | 8.76 |
| YEAR | 90,403 | | 146,414.23 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 26 | 1 | 0.07 | 93 | 50 | 13 | 192 | 44 | 23 |
| 2 | 26 | 2 | .14 | 367 | 1,340 | 1,490 | 178 | --- | 20 |
| 3 | 25 | 2 | .14 | 397 | 457 | 490 | 167 | --- | 18 |
| 4 | 26 | 2 | .14 | 387 | 206 | 215 | 154 | --- | 15 |
| 5 | 26 | 2 | .14 | 360 | 157 | 153 | 143 | --- | 10 |
| 6 | 26 | 2 | .14 | 359 | 125 | 121 | 139 | 26 | 9.8 |
| 7 | 26 | 2 | .14 | 361 | 107 | 104 | 141 | 24 | 9.1 |
| 8 | 25 | 3 | .20 | 345 | 110 | 102 | 151 | 35 | 14 |
| 9 | 26 | 2 | .14 | 336 | 91 | 83 | 148 | 20 | 8.0 |
| 10 | 54 | 37 | 6.0 | 421 | 363 | 492 | 145 | 21 | 8.2 |
| 11 | 55 | 8 | 1.2 | 521 | 283 | 398 | 141 | 17 | 6.5 |
| 12 | 58 | 16 | 2.5 | 749 | 1,010 | 2,040 | 138 | 22 | 8.2 |
| 13 | 69 | 15 | 2.8 | 859 | 917 | 2,130 | 138 | 17 | 6.3 |
| 14 | 71 | 8 | 1.5 | 813 | 478 | 1,050 | 148 | 35 | 14 |
| 15 | 66 | 3 | .53 | 686 | 411 | 761 | 148 | 20 | 8.0 |
| 16 | 62 | 3 | .50 | 557 | 302 | 454 | 137 | 15 | 5.5 |
| 17 | 59 | 2 | .32 | 454 | 215 | 264 | 133 | 14 | 5.0 |
| 18 | 58 | 3 | .47 | 441 | 181 | 216 | 112 | --- | 2.0 |
| 19 | 57 | 3 | .46 | 385 | 167 | 174 | 103 | --- | 1.0 |
| 20 | 57 | 2 | .31 | 358 | 134 | 130 | 105 | --- | 1.0 |
| 21 | 56 | 2 | .30 | 322 | 112 | 97 | 106 | --- | 1.0 |
| 22 | 56 | 3 | .45 | 296 | 95 | 76 | 119 | --- | 2.5 |
| 23 | 56 | 3 | .45 | 308 | 175 | 146 | 141 | --- | 8.0 |
| 24 | 56 | 6 | .91 | 289 | 93 | 73 | 133 | --- | 5.0 |
| 25 | 80 | 30 | 6.5 | 263 | 59 | 42 | 125 | --- | 3.0 |
| 26 | 87 | 39 | 9.2 | 244 | 64 | 42 | 122 | --- | 3.0 |
| 27 | 92 | 16 | 4.0 | 233 | 69 | 43 | 122 | --- | 2.0 |
| 28 | 94 | --- | 3.0 | 232 | 69 | 43 | 117 | --- | 2.5 |
| 29 | 92 | --- | 2.0 | 226 | 57 | 35 | 117 | --- | 2.5 |
| 30 | 92 | --- | 2.0 | 208 | 50 | 28 | 117 | --- | 2.5 |
| 31 | 91 | 6 | 1.5 | --- | --- | --- | 110 | --- | 1.5 |
| TOTAL | 1,750 | --- | 48.15 | 11,870 | --- | 11,505 | 4,190 | --- | 226.1 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 104 | --- | 1.0 | 62 | --- | 0.50 | 105 | --- | 3.0 |
| 2 | 101 | --- | 1.0 | 63 | --- | .50 | 105 | --- | 3.0 |
| 3 | 101 | --- | 1.0 | 58 | --- | .50 | 103 | --- | 3.0 |
| 4 | 96 | 3 | .78 | 54 | --- | .50 | 103 | --- | 3.0 |
| 5 | 91 | 3 | .74 | 58 | --- | .50 | 103 | --- | 3.0 |
| 6 | 91 | --- | .50 | 58 | --- | .50 | 98 | --- | 3.0 |
| 7 | 91 | --- | .50 | 58 | --- | .50 | 92 | --- | 3.0 |
| 8 | 89 | --- | .50 | 58 | --- | .50 | 91 | --- | 3.0 |
| 9 | 84 | --- | .50 | 57 | --- | .50 | 92 | --- | 3.0 |
| 10 | 79 | --- | .50 | 56 | --- | .50 | 94 | --- | 3.0 |
| 11 | 74 | --- | .50 | 65 | --- | .50 | 99 | --- | 3.0 |
| 12 | 73 | --- | .50 | 72 | 4 | .78 | 104 | --- | 3.0 |
| 13 | 73 | --- | .50 | 66 | 4 | .71 | 106 | --- | 3.0 |
| 14 | 74 | --- | .50 | 66 | 4 | .71 | 113 | 17 | 5.2 |
| 15 | 74 | --- | .50 | 70 | 2 | .38 | 121 | 23 | 7.5 |
| 16 | 73 | --- | .50 | 69 | 1 | .19 | 131 | 37 | 13 |
| 17 | 74 | --- | .50 | 68 | 1 | .18 | 146 | 49 | 19 |
| 18 | 76 | --- | .50 | 68 | 1 | .18 | 158 | 57 | 24 |
| 19 | 75 | --- | .50 | 68 | 2 | .37 | 165 | 43 | 19 |
| 20 | 74 | --- | .50 | 68 | 2 | .37 | 173 | 46 | 21 |
| 21 | 74 | --- | .50 | 69 | 6 | 1.1 | 177 | 44 | 21 |
| 22 | 74 | --- | .50 | 76 | 6 | 1.2 | 171 | 22 | 10 |
| 23 | 72 | --- | .50 | 85 | 10 | 2.3 | 192 | 153 | 87 |
| 24 | 69 | --- | .50 | 99 | 9 | 2.4 | 193 | 46 | 24 |
| 25 | 66 | --- | .50 | 104 | 4 | 1.1 | 179 | 25 | 12 |
| 26 | 64 | --- | .50 | 98 | 6 | 1.6 | 173 | 21 | 9.8 |
| 27 | 63 | --- | .50 | 97 | 13 | 3.4 | 170 | 17 | 7.8 |
| 28 | 64 | --- | .50 | 99 | --- | 3.0 | 159 | 18 | 7.7 |
| 29 | 64 | --- | .50 | --- | --- | --- | 157 | --- | 7.5 |
| 30 | 61 | --- | .50 | --- | --- | --- | 170 | --- | 7.5 |
| 31 | 62 | --- | .50 | --- | --- | --- | 198 | --- | 5.0 |
| TOTAL | 2,400 | --- | 17.52 | 1,989 | --- | 25.47 | 4,241 | --- | 347.0 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 231 | 120 | 75 | 324 | 134 | 124 | 175 | 66 | 31 |
| 2 | 273 | 166 | 122 | 413 | 198 | 221 | 161 | 56 | 24 |
| 3 | 317 | 166 | 142 | 520 | 243 | 341 | 149 | 54 | 22 |
| 4 | 315 | 83 | 71 | 491 | 147 | 195 | 141 | --- | 11 |
| 5 | 322 | 119 | 103 | 423 | 126 | 144 | 142 | --- | 11 |
| 6 | 360 | 174 | 169 | 367 | 95 | 94 | 217 | --- | 42 |
| 7 | 410 | 220 | 244 | 332 | 98 | 88 | 650 | --- | 700 |
| 8 | 463 | 234 | 293 | 310 | 76 | 64 | 621 | 390 | 654 |
| 9 | 537 | 333 | 483 | 295 | 65 | 52 | 500 | 223 | 301 |
| 10 | 628 | 417 | 707 | 290 | 78 | 61 | 370 | 184 | 184 |
| 11 | 742 | 559 | 1,120 | 280 | 71 | 54 | 293 | 128 | 101 |
| 12 | 769 | 496 | 1,030 | 259 | 58 | 41 | 277 | 110 | 82 |
| 13 | 772 | --- | 1,100 | 250 | 54 | 36 | 253 | 88 | 60 |
| 14 | 788 | --- | 1,200 | 248 | 45 | 30 | 231 | 83 | 52 |
| 15 | 846 | --- | 1,400 | 256 | 69 | 48 | 211 | 63 | 36 |
| 16 | 868 | --- | 1,500 | 356 | 224 | 243 | 193 | 54 | 28 |
| 17 | 728 | --- | 1,000 | 559 | 473 | 714 | 180 | 50 | 24 |
| 18 | 611 | --- | 660 | 619 | 573 | 958 | 170 | 45 | 21 |
| 19 | 494 | --- | 400 | 572 | 572 | 883 | 162 | 38 | 17 |
| 20 | 392 | --- | 230 | 475 | 247 | 317 | 152 | 30 | 12 |
| 21 | 318 | --- | 130 | 411 | 210 | 233 | 145 | 34 | 13 |
| 22 | 281 | --- | 95 | 405 | 186 | 203 | 140 | --- | 11 |
| 23 | 268 | --- | 90 | 413 | 177 | 197 | 133 | --- | 9.0 |
| 24 | 232 | 89 | 56 | 439 | 202 | 239 | 126 | --- | 7.0 |
| 25 | 215 | 81 | 47 | 401 | 153 | 166 | 120 | --- | 6.0 |
| 26 | 210 | 68 | 39 | 341 | 152 | 140 | 114 | --- | 5.0 |
| 27 | 226 | 104 | 63 | 302 | 126 | 103 | 109 | 9 | 2.6 |
| 28 | 264 | 90 | 64 | 257 | 117 | 81 | 104 | 14 | 3.9 |
| 29 | 280 | 84 | 64 | 227 | 101 | 62 | 100 | 6 | 1.6 |
| 30 | 289 | 71 | 55 | 200 | 89 | 48 | 95 | 8 | 2.1 |
| 31 | --- | --- | --- | 181 | 72 | 35 | --- | --- | --- |
| TOTAL | 13,449 | --- | 12,752 | 11,216 | --- | 6,215 | 6,434 | --- | 2,474.2 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 90 | 6 | 1.5 | 65 | 35 | 6.1 | 32 | 8 | 0.69 |
| 2 | 85 | 8 | 1.8 | 54 | 18 | 2.6 | 33 | 4 | .36 |
| 3 | 80 | 8 | 1.7 | 54 | 14 | 2.0 | 32 | 4 | .35 |
| 4 | 76 | 6 | 1.2 | 52 | 11 | 1.5 | 32 | 9 | .78 |
| 5 | 73 | 3 | .59 | 50 | 8 | 1.1 | 33 | 14 | 1.2 |
| 6 | 72 | 4 | .78 | 48 | 8 | 1.0 | 36 | 16 | 1.6 |
| 7 | 70 | 4 | .76 | 47 | 8 | 1.0 | 36 | 22 | 2.1 |
| 8 | 68 | 2 | .37 | 47 | 6 | .76 | 34 | 14 | 1.3 |
| 9 | 66 | 4 | .71 | 44 | 7 | .83 | 35 | 13 | 1.2 |
| 10 | 64 | 4 | .69 | 43 | 8 | .93 | 45 | 17 | 2.1 |
| 11 | 63 | 2 | .34 | 42 | 7 | .79 | 40 | 10 | 1.1 |
| 12 | 62 | 1 | .17 | 40 | 6 | .65 | 55 | 12 | 1.8 |
| 13 | 61 | 2 | .33 | 39 | 8 | .84 | 65 | 15 | 2.6 |
| 14 | 60 | 1 | .16 | 39 | 6 | .63 | 75 | 21 | 4.3 |
| 15 | 60 | 2 | .32 | 37 | 4 | .40 | 65 | 9 | 1.6 |
| 16 | 61 | 1 | .16 | 37 | 6 | .60 | 55 | 15 | 2.2 |
| 17 | 59 | 1 | .16 | 36 | 7 | .68 | 55 | 12 | 1.8 |
| 18 | 57 | 1 | .15 | 35 | 9 | .85 | 60 | 11 | 1.8 |
| 19 | 56 | 1 | .15 | 35 | 6 | .57 | 59 | 7 | 1.1 |
| 20 | 53 | 1 | .14 | 35 | 6 | .57 | 55 | 3 | .45 |
| 21 | 52 | 1 | .14 | 34 | 6 | .55 | 52 | 4 | .56 |
| 22 | 50 | 4 | .54 | 34 | 8 | .73 | 51 | 4 | .55 |
| 23 | 49 | 2 | .26 | 32 | 7 | .60 | 49 | 3 | .40 |
| 24 | 48 | 2 | .26 | 32 | 7 | .60 | 48 | 3 | .39 |
| 25 | 47 | 8 | 1.0 | 32 | 6 | .52 | 47 | 5 | .63 |
| 26 | 45 | 4 | .49 | 32 | 5 | .43 | 45 | 3 | .36 |
| 27 | 44 | 1 | .12 | 32 | 10 | .86 | 44 | 2 | .24 |
| 28 | 44 | 4 | .48 | 32 | 9 | .78 | 43 | 3 | .35 |
| 29 | 42 | 2 | .23 | 32 | 7 | .60 | 42 | 3 | .34 |
| 30 | 42 | 6 | .68 | 32 | 9 | .78 | 42 | 3 | .34 |
| 31 | 43 | 2 | .23 | 32 | 6 | .52 | --- | --- | --- |
| TOTAL | 1,842 | --- | 16.61 | 1,235 | --- | 31.37 | 1,395 | --- | 34.59 |
| YEAR | 62,011 | | 33,693.01 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 41 | --- | 0.20 | 264 | 93 | 66 | 100 | --- | 2.0 |
| 2 | 41 | --- | .20 | 256 | 84 | 58 | 101 | --- | 1.0 |
| 3 | 42 | 1 | .11 | 251 | 74 | 50 | 117 | --- | 4.0 |
| 4 | 42 | 4 | .45 | 268 | 92 | 67 | 120 | --- | 4.0 |
| 5 | 42 | 1 | .11 | 268 | 68 | 49 | 124 | --- | 5.0 |
| 6 | 42 | 1 | .11 | 332 | 140 | 125 | 145 | --- | 10 |
| 7 | 43 | 1 | .12 | 392 | 210 | 222 | 157 | --- | 10 |
| 8 | 42 | 1 | .11 | 398 | 144 | 155 | 139 | --- | 5.0 |
| 9 | 41 | 2 | .22 | 374 | 104 | 105 | 130 | --- | 5.0 |
| 10 | 42 | 1 | .11 | 340 | 124 | 114 | 124 | --- | 2.0 |
| 11 | 47 | 2 | .25 | 291 | --- | 80 | 113 | 6 | 1.8 |
| 12 | 48 | 1 | .13 | 254 | --- | 50 | 108 | --- | 1.0 |
| 13 | 45 | 1 | .12 | 229 | 40 | 25 | 108 | --- | 1.0 |
| 14 | 48 | 3 | .39 | 210 | --- | 24 | 106 | --- | 1.0 |
| 15 | 50 | 2 | .27 | 215 | --- | 22 | 104 | --- | 1.0 |
| 16 | 53 | 3 | .43 | 210 | --- | 21 | 104 | --- | 1.0 |
| 17 | 50 | 4 | .54 | 195 | --- | 20 | 104 | --- | 1.0 |
| 18 | 49 | 2 | .26 | 180 | --- | 18 | 108 | --- | 1.0 |
| 19 | 59 | 8 | 1.3 | 174 | --- | 17 | 102 | --- | 1.0 |
| 20 | 98 | 73 | 19 | 167 | --- | 16 | 96 | --- | 1.0 |
| 21 | 90 | --- | 10 | 155 | --- | 15 | 97 | --- | 1.0 |
| 22 | 134 | --- | 40 | 143 | --- | 14 | 97 | --- | 1.0 |
| 23 | 145 | --- | 20 | 131 | --- | 12 | 102 | --- | 1.0 |
| 24 | 205 | --- | 100 | 129 | --- | 11 | 104 | --- | 1.0 |
| 25 | 293 | --- | 150 | 124 | --- | 10 | 102 | --- | 1.0 |
| 26 | 324 | --- | 150 | 124 | --- | 8.0 | 100 | --- | 1.0 |
| 27 | 334 | --- | 140 | 122 | --- | 7.0 | 97 | --- | 1.0 |
| 28 | 346 | --- | 130 | 115 | --- | 6.0 | 97 | --- | 1.0 |
| 29 | 324 | 133 | 116 | 107 | --- | 4.0 | 98 | --- | 1.0 |
| 30 | 312 | 116 | 98 | 104 | --- | 4.0 | 95 | --- | 1.0 |
| 31 | 277 | 112 | 84 | --- | --- | --- | 94 | --- | 1.0 |
| TOTAL | 3,749 | --- | 1,062.43 | 6,522 | --- | 1,395.0 | 3,393 | --- | 69.8 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 100 | --- | 1.0 | 543 | 585 | 858 | 556 | 380 | 570 |
| 2 | 96 | --- | 1.0 | 594 | 387 | 621 | 481 | 310 | 403 |
| 3 | 93 | --- | 1.0 | 596 | 423 | 681 | 423 | 299 | 341 |
| 4 | 88 | --- | 1.0 | 541 | 333 | 486 | 386 | 236 | 246 |
| 5 | 114 | --- | 15 | 469 | 291 | 368 | 365 | 201 | 198 |
| 6 | 126 | --- | 15 | 393 | 310 | 329 | 357 | 161 | 155 |
| 7 | 105 | 23 | 6.5 | 331 | 315 | 282 | 688 | 735 | 1370 |
| 8 | 140 | 45 | 18 | 277 | 221 | 165 | 831 | 442 | 992 |
| 9 | 199 | 125 | 72 | 245 | 132 | 87 | 701 | 314 | 594 |
| 10 | 229 | 109 | 72 | 224 | 122 | 74 | 583 | 268 | 422 |
| 11 | 250 | 60 | 40 | 206 | 117 | 65 | 565 | 242 | 369 |
| 12 | 238 | 34 | 22 | 191 | 145 | 75 | 549 | 204 | 302 |
| 13 | 229 | 32 | 20 | 179 | 172 | 83 | 508 | 208 | 285 |
| 14 | 223 | 18 | 11 | 176 | 136 | 65 | 445 | 202 | 243 |
| 15 | 219 | 32 | 19 | 256 | --- | 150 | 390 | 197 | 207 |
| 16 | 284 | 190 | 172 | 318 | --- | 150 | 344 | 162 | 150 |
| 17 | 333 | 180 | 171 | 235 | --- | 100 | 305 | 126 | 104 |
| 18 | 1,080 | 5,650 | 21,700 | 218 | --- | 100 | 281 | 109 | 83 |
| 19 | 1,850 | 3,000 | 16,100 | 216 | --- | 90 | 256 | 75 | 52 |
| 20 | 1,220 | 957 | 3,150 | 201 | --- | 80 | 238 | 60 | 39 |
| 21 | 630 | 716 | 1,220 | 195 | --- | 70 | 243 | 57 | 37 |
| 22 | 550 | 498 | 740 | 213 | --- | 80 | 228 | 57 | 35 |
| 23 | 500 | 504 | 680 | 875 | --- | 4,100 | 283 | 221 | 213 |
| 24 | 331 | 356 | 318 | 1,710 | --- | 15,000 | 375 | 211 | 214 |
| 25 | 280 | 334 | 253 | 1,560 | --- | 10,000 | 359 | 102 | 99 |
| 26 | 257 | 326 | 226 | 1,160 | --- | 3,000 | 386 | 90 | 94 |
| 27 | 276 | 319 | 238 | 848 | 860 | 1,970 | 397 | 73 | 78 |
| 28 | 257 | 224 | 155 | 651 | 479 | 842 | 417 | 94 | 106 |
| 29 | 257 | 196 | 136 | --- | --- | --- | 410 | 79 | 87 |
| 30 | 374 | 601 | 607 | --- | --- | --- | 424 | 110 | 126 |
| 31 | 461 | 380 | 473 | --- | --- | --- | 396 | 76 | 81 |
| TOTAL | 11,389 | --- | 46,653.5 | 13,621 | --- | 39,971 | 13,170 | --- | 8,295 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 359 | 88 | 85 | 159 | 23 | 9.9 | 157 | 27 | 11 |
| 2 | 312 | 56 | 47 | 170 | 27 | 12 | 147 | 21 | 8.3 |
| 3 | 275 | 52 | 39 | 174 | 34 | 16 | 138 | 28 | 10 |
| 4 | 247 | 49 | 33 | 182 | 24 | 12 | 133 | 19 | 6.8 |
| 5 | 222 | 44 | 26 | 214 | 50 | 29 | 130 | 20 | 7.0 |
| 6 | 207 | 38 | 21 | 203 | 36 | 20 | 125 | 17 | 5.7 |
| 7 | 203 | 39 | 21 | 191 | 24 | 12 | 115 | 15 | 4.7 |
| 8 | 213 | 40 | 23 | 183 | 20 | 9.9 | 97 | 13 | 3.4 |
| 9 | 219 | 29 | 17 | 188 | 22 | 11 | 88 | 15 | 3.6 |
| 10 | 221 | 34 | 20 | 192 | 27 | 14 | 83 | 14 | 3.1 |
| 11 | 224 | 27 | 16 | 190 | 22 | 11 | 80 | 10 | 2.2 |
| 12 | 211 | 27 | 15 | 188 | 21 | 11 | 76 | 7 | 1.4 |
| 13 | 191 | 28 | 14 | 206 | 32 | 18 | 73 | 10 | 2.0 |
| 14 | 173 | 26 | 12 | 199 | 23 | 12 | 72 | 18 | 3.5 |
| 15 | 169 | 18 | 8.2 | 195 | 21 | 11 | 71 | 6 | 1.2 |
| 16 | 177 | 21 | 10 | 193 | 16 | 8.3 | 71 | 5 | .96 |
| 17 | 167 | 22 | 9.9 | 198 | 17 | 9.1 | 71 | 6 | 1.2 |
| 18 | 154 | 22 | 9.1 | 211 | 26 | 15 | 73 | 6 | 1.2 |
| 19 | 143 | 23 | 8.9 | 220 | 30 | 18 | 71 | 6 | 1.2 |
| 20 | 142 | 26 | 10 | 245 | 36 | 24 | 65 | 5 | .88 |
| 21 | 151 | 33 | 13 | 245 | 30 | 20 | 62 | 5 | .84 |
| 22 | 177 | 61 | 29 | 215 | 24 | 14 | 60 | 4 | .65 |
| 23 | 185 | 30 | 15 | 186 | 20 | 10 | 57 | 6 | .92 |
| 24 | 184 | 38 | 19 | 174 | 15 | 7.0 | 56 | 6 | .91 |
| 25 | 183 | 36 | 18 | 176 | 14 | 6.7 | 55 | 8 | 1.2 |
| 26 | 177 | 30 | 14 | 191 | 17 | 8.8 | 54 | 4 | .58 |
| 27 | 197 | 50 | 27 | 192 | 27 | 14 | 53 | 4 | .57 |
| 28 | 182 | 31 | 15 | 184 | 14 | 7.0 | 53 | 4 | .57 |
| 29 | 169 | 30 | 14 | 179 | 12 | 5.8 | 53 | 7 | 1.0 |
| 30 | 160 | 28 | 12 | 174 | 16 | 7.5 | 52 | 9 | 1.3 |
| 31 | --- | --- | --- | 164 | 38 | 17 | --- | --- | --- |
| TOTAL | 5,994 | --- | 621.1 | 5,981 | --- | 401.0 | 2,491 | --- | 87.88 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 51 | 8 | 1.1 | 33 | 3 | 0.27 | 24 | 1 | 0.06 |
| 2 | 51 | 6 | .83 | 32 | 2 | .17 | 24 | 1 | .06 |
| 3 | 50 | 4 | .54 | 32 | 2 | .17 | 24 | 1 | .06 |
| 4 | 53 | 4 | .57 | 31 | 2 | .17 | 24 | 1 | .06 |
| 5 | 50 | 6 | .81 | 31 | 1 | .08 | 23 | 2 | .12 |
| 6 | 48 | 8 | 1.0 | 32 | 2 | .17 | 23 | 2 | .12 |
| 7 | 47 | 7 | .89 | 31 | 1 | .08 | 23 | 2 | .12 |
| 8 | 46 | 6 | .75 | 31 | 2 | .17 | 23 | 1 | .06 |
| 9 | 45 | 5 | .61 | 31 | 4 | .33 | 27 | 2 | .15 |
| 10 | 48 | 4 | .52 | 30 | 8 | .65 | 25 | 2 | .14 |
| 11 | 47 | 2 | .25 | 30 | 8 | .65 | 24 | 2 | .13 |
| 12 | 44 | 3 | .36 | 30 | 5 | .41 | 24 | 2 | .13 |
| 13 | 42 | 1 | .11 | 30 | 7 | .57 | 23 | 1 | .06 |
| 14 | 41 | 2 | .22 | 29 | 3 | .23 | 23 | 2 | .12 |
| 15 | 41 | 1 | .11 | 28 | 2 | .15 | 23 | 2 | .12 |
| 16 | 44 | 2 | .24 | 27 | 3 | .22 | 23 | 1 | .06 |
| 17 | 44 | 2 | .24 | 27 | 6 | .44 | 24 | 2 | .13 |
| 18 | 41 | 3 | .33 | 27 | 4 | .29 | 25 | 2 | .14 |
| 19 | 39 | 3 | .32 | 27 | 2 | .15 | 24 | 2 | .13 |
| 20 | 38 | 4 | .41 | 27 | 2 | .15 | 25 | 5 | .34 |
| 21 | 37 | 3 | .30 | 26 | --- | .20 | 25 | --- | .40 |
| 22 | 36 | 2 | .19 | 26 | 4 | .28 | 25 | 4 | .27 |
| 23 | 36 | 2 | .19 | 26 | 2 | .14 | 30 | 8 | .65 |
| 24 | 36 | 2 | .19 | 26 | 2 | .14 | 34 | 8 | .73 |
| 25 | 35 | 2 | .19 | 26 | 2 | .14 | 36 | 8 | .83 |
| 26 | 34 | 2 | .18 | 25 | 2 | .14 | 42 | 10 | 1.2 |
| 27 | 35 | 4 | .38 | 24 | 2 | .13 | 35 | 3 | .33 |
| 28 | 35 | 3 | .28 | 24 | 2 | .13 | 35 | 3 | .28 |
| 29 | 34 | 3 | .28 | 24 | 2 | .13 | 42 | 11 | 1.4 |
| 30 | 34 | 3 | .28 | 24 | 2 | .13 | 40 | 5 | .50 |
| 31 | 34 | 4 | .37 | 24 | 2 | .13 | --- | --- | --- |
| TOTAL | 1,296 | --- | 13.04 | 871 | --- | 7.21 | 822 | --- | 8.90 |
| YEAR | 69,299 | | 98,585.86 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 36 | 2 | 0.19 | 104 | --- | 15 | 377 | --- | 460 |
| 2 | 34 | 3 | .28 | 98 | --- | 11 | 314 | 227 | 192 |
| 3 | 32 | 3 | .26 | 95 | 26 | 6.7 | 265 | 178 | 127 |
| 4 | 31 | 4 | .33 | 91 | 46 | 11 | 228 | 117 | 72 |
| 5 | 30 | 2 | .16 | 98 | 42 | 11 | 207 | 82 | 46 |
| 6 | 30 | 2 | .16 | 98 | 69 | 18 | 185 | 71 | 35 |
| 7 | 29 | 2 | .16 | 110 | 25 | 7.4 | 169 | 63 | 29 |
| 8 | 29 | 1 | .08 | 99 | 35 | 9.4 | 162 | 56 | 24 |
| 9 | 29 | 1 | .08 | 96 | 33 | 8.6 | 151 | 61 | 25 |
| 10 | 28 | 2 | .15 | 91 | 24 | 5.9 | 137 | 44 | 16 |
| 11 | 28 | 1 | .08 | 98 | 29 | 7.7 | 135 | --- | 15 |
| 12 | 28 | 1 | .08 | 98 | --- | 8.0 | 135 | --- | 14 |
| 13 | 28 | 1 | .08 | 95 | --- | 6.0 | 134 | --- | 13 |
| 14 | 27 | 1 | .07 | 94 | --- | 5.0 | 137 | 33 | 12 |
| 15 | 27 | 2 | .15 | 92 | --- | 5.0 | 128 | --- | 9.0 |
| 16 | 27 | 2 | .15 | 103 | --- | 10 | 121 | 25 | 8.2 |
| 17 | 27 | 1 | .07 | 115 | --- | 25 | 117 | 31 | 9.8 |
| 18 | 27 | 1 | .07 | 176 | --- | 290 | 112 | --- | 6.0 |
| 19 | 27 | 1 | .07 | 218 | --- | 520 | 110 | --- | 6.0 |
| 20 | 27 | 1 | .07 | 448 | --- | 2,800 | 109 | --- | 6.0 |
| 21 | 26 | 1 | .07 | 620 | --- | 5,600 | 116 | --- | 9.0 |
| 22 | 26 | 1 | .07 | 660 | --- | 6,100 | 178 | --- | 26 |
| 23 | 26 | 1 | .07 | 862 | --- | 10,500 | 219 | 83 | 49 |
| 24 | 26 | 1 | .07 | 1,310 | --- | 22,000 | 199 | 71 | 38 |
| 25 | 46 | 178 | 41 | 1,060 | --- | 12,000 | 188 | 49 | 25 |
| 26 | 71 | 125 | 25 | 833 | --- | 6,000 | 192 | --- | 25 |
| 27 | 85 | 106 | 24 | 776 | --- | 4,800 | 186 | --- | 25 |
| 28 | 58 | --- | 5.0 | 657 | --- | 2,900 | 199 | --- | 25 |
| 29 | 53 | --- | 4.0 | 537 | --- | 1,500 | 273 | --- | 120 |
| 30 | 126 | --- | 200 | 447 | --- | 800 | 275 | 168 | 125 |
| 31 | 120 | --- | 37 | --- | --- | --- | 273 | --- | 120 |
| TOTAL | 1,244 | --- | 339.02 | 10,279 | --- | 75,980.7 | 5,731 | --- | 1,712.0 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 267 | --- | 110 | 951 | --- | 10,000 | 156 | --- | 58 |
| 2 | 246 | --- | 82 | 646 | --- | 3,400 | 188 | --- | 76 |
| 3 | 286 | --- | 134 | 492 | --- | 1,600 | 803 | --- | 4,700 |
| 4 | 282 | --- | 132 | 421 | 747 | 849 | 969 | --- | 4,400 |
| 5 | 250 | --- | 83 | 376 | --- | 700 | 692 | --- | 1,200 |
| 6 | 227 | --- | 58 | 368 | 667 | 663 | 620 | --- | 850 |
| 7 | 204 | --- | 41 | 341 | 463 | 426 | 418 | --- | 250 |
| 8 | 187 | --- | 32 | 327 | 442 | 390 | 307 | --- | 120 |
| 9 | 166 | --- | 23 | 321 | 546 | 473 | 274 | --- | 100 |
| 10 | 163 | --- | 22 | 322 | 403 | 350 | 354 | --- | 170 |
| 11 | 166 | --- | 22 | 340 | 323 | 297 | 410 | --- | 240 |
| 12 | 237 | --- | 55 | 336 | 288 | 261 | 878 | --- | 7,000 |
| 13 | 204 | --- | 36 | 496 | 540 | 723 | 1,050 | --- | 8,000 |
| 14 | 168 | --- | 20 | 485 | 341 | 447 | 939 | --- | 3,800 |
| 15 | 146 | 35 | 14 | 503 | 290 | 394 | 698 | --- | 1,200 |
| 16 | 146 | --- | 14 | 464 | 207 | 259 | 526 | --- | 480 |
| 17 | 148 | --- | 15 | 382 | --- | 160 | 479 | --- | 370 |
| 18 | 148 | --- | 15 | 337 | --- | 130 | 411 | --- | 240 |
| 19 | 145 | --- | 14 | 312 | --- | 120 | 367 | --- | 180 |
| 20 | 140 | --- | 13 | 272 | --- | 110 | 332 | --- | 150 |
| 21 | 134 | --- | 11 | 255 | --- | 100 | 301 | --- | 120 |
| 22 | 124 | --- | 9.0 | 234 | --- | 94 | 278 | --- | 100 |
| 23 | 116 | --- | 7.0 | 215 | 153 | 89 | 276 | --- | 100 |
| 24 | 117 | --- | 7.0 | 185 | --- | 75 | 258 | 174 | 121 |
| 25 | 115 | --- | 7.0 | 169 | --- | 67 | 240 | 121 | 78 |
| 26 | 193 | --- | 42 | 158 | --- | 58 | 226 | 114 | 70 |
| 27 | 251 | --- | 90 | 150 | --- | 53 | 208 | 118 | 66 |
| 28 | 268 | --- | 110 | 146 | --- | 48 | 192 | 96 | 50 |
| 29 | 256 | --- | 94 | --- | --- | --- | 182 | --- | 45 |
| 30 | 261 | --- | 100 | --- | --- | --- | 173 | --- | 40 |
| 31 | 292 | --- | 150 | --- | --- | --- | 174 | --- | 35 |
| TOTAL | 6,053 | --- | 1,562.0 | 10,004 | --- | 22,336 | 13,379 | --- | 34,409 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 176 | 76 | 36 | 458 | 199 | 246 | 118 | --- | 6.0 |
| 2 | 213 | 131 | 75 | 396 | 178 | 190 | 107 | --- | 4.0 |
| 3 | 272 | 164 | 120 | 308 | --- | 150 | 102 | --- | 3.0 |
| 4 | 304 | 141 | 116 | 269 | --- | 73 | 100 | --- | 3.0 |
| 5 | 323 | 142 | 124 | 288 | --- | 87 | 99 | --- | 3.0 |
| 6 | 306 | 121 | 100 | 355 | 164 | 157 | 97 | --- | 3.0 |
| 7 | 315 | 106 | 90 | 433 | 149 | 174 | 94 | --- | 2.0 |
| 8 | 336 | 133 | 121 | 456 | 124 | 153 | 94 | --- | 2.0 |
| 9 | 306 | 102 | 84 | 428 | 103 | 119 | 91 | --- | 2.0 |
| 10 | 315 | 77 | 65 | 379 | 99 | 101 | 89 | --- | 2.0 |
| 11 | 311 | --- | 65 | 313 | 121 | 102 | 86 | 7 | 1.6 |
| 12 | 286 | --- | 50 | 336 | 94 | 85 | 83 | 4 | .90 |
| 13 | 260 | --- | 40 | 268 | 90 | 65 | 81 | 3 | .66 |
| 14 | 248 | --- | 35 | 235 | 77 | 49 | 79 | 3 | .64 |
| 15 | 252 | --- | 37 | 203 | 73 | 40 | 77 | 4 | .83 |
| 16 | 290 | --- | 54 | 181 | 60 | 29 | 76 | 10 | 2.1 |
| 17 | 322 | --- | 120 | 164 | 58 | 26 | 75 | 3 | .61 |
| 18 | 295 | --- | 56 | 150 | 33 | 13 | 71 | 4 | .77 |
| 19 | 261 | --- | 40 | 139 | 28 | 11 | 69 | 3 | .56 |
| 20 | 228 | --- | 31 | 124 | 21 | 7.0 | 69 | 2 | .37 |
| 21 | 216 | --- | 29 | 117 | 19 | 6.0 | 73 | 3 | .59 |
| 22 | 231 | --- | 31 | 110 | --- | 5.0 | 69 | 2 | .37 |
| 23 | 265 | --- | 42 | 107 | --- | 4.0 | 65 | 2 | .35 |
| 24 | 295 | --- | 56 | 104 | --- | 4.0 | 62 | 3 | .50 |
| 25 | 286 | --- | 50 | 102 | --- | 3.0 | 59 | 3 | .48 |
| 26 | 282 | --- | 48 | 101 | --- | 3.0 | 58 | 4 | .63 |
| 27 | 324 | --- | 130 | 98 | --- | 3.0 | 56 | 2 | .30 |
| 28 | 427 | 278 | 321 | 96 | --- | 3.0 | 55 | 4 | .59 |
| 29 | 514 | 333 | 462 | 90 | --- | 2.0 | 56 | 2 | .30 |
| 30 | 494 | 240 | 320 | 126 | --- | 7.0 | 55 | 2 | .30 |
| 31 | --- | --- | --- | 139 | --- | 10 | --- | --- | --- |
| TOTAL | 8,953 | --- | 2,948 | 7,073 | --- | 1,927.0 | 2,365 | --- | 43.45 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 54 | 1 | 0.15 | 35 | 4 | 0.38 | 26 | 1 | 0.07 |
| 2 | 52 | 3 | .42 | 34 | 4 | .37 | 26 | 2 | .14 |
| 3 | 52 | 2 | .28 | 34 | 4 | .37 | 25 | --- | .10 |
| 4 | 51 | 1 | .14 | 33 | 4 | .36 | 24 | 2 | .13 |
| 5 | 52 | 1 | .14 | 34 | 3 | .28 | 24 | 2 | .13 |
| 6 | 52 | 1 | .14 | 34 | 3 | .28 | 24 | --- | .10 |
| 7 | 50 | 1 | .14 | 33 | 4 | .36 | 24 | --- | .10 |
| 8 | 50 | 1 | .14 | 32 | 4 | .35 | 24 | --- | .10 |
| 9 | 48 | 1 | .13 | 31 | 4 | .33 | 24 | --- | .10 |
| 10 | 48 | 1 | .13 | 31 | 6 | .50 | 24 | 2 | .13 |
| 11 | 46 | 1 | .12 | 31 | --- | .40 | 23 | 3 | .19 |
| 12 | 44 | 2 | .24 | 31 | 4 | .33 | 23 | 2 | .12 |
| 13 | 43 | 4 | .46 | 32 | 3 | .26 | 23 | 2 | .12 |
| 14 | 42 | 10 | 1.1 | 33 | 3 | .27 | 24 | 5 | .32 |
| 15 | 41 | 4 | .44 | 33 | 4 | .36 | 26 | 2 | .14 |
| 16 | 42 | 4 | .45 | 32 | 4 | .35 | 25 | 5 | .34 |
| 17 | 43 | 4 | .46 | 30 | 3 | .24 | 24 | 10 | .65 |
| 18 | 50 | 4 | .54 | 30 | 3 | .24 | 24 | 2 | .13 |
| 19 | 46 | 6 | .75 | 29 | 4 | .31 | 23 | 3 | .19 |
| 20 | 42 | 6 | .68 | 29 | 4 | .31 | 23 | 5 | .31 |
| 21 | 42 | 5 | .57 | 29 | 4 | .31 | 22 | 3 | .18 |
| 22 | 41 | 5 | .55 | 29 | 5 | .39 | 22 | 2 | .12 |
| 23 | 41 | 4 | .44 | 29 | 4 | .31 | 21 | 2 | .11 |
| 24 | 41 | 5 | .55 | 28 | 2 | .15 | 21 | 1 | .06 |
| 25 | 39 | 5 | .53 | 28 | 2 | .15 | 21 | 6 | .34 |
| 26 | 39 | 4 | .42 | 28 | 6 | .45 | 21 | 2 | .11 |
| 27 | 38 | 4 | .41 | 27 | 2 | .15 | 21 | 3 | .17 |
| 28 | 37 | 4 | .40 | 27 | 3 | .22 | 21 | 4 | .23 |
| 29 | 36 | 3 | .29 | 26 | 2 | .14 | 20 | 1 | .05 |
| 30 | 35 | 3 | .28 | 26 | 1 | .07 | 20 | 1 | .05 |
| 31 | 35 | 4 | .38 | 26 | 3 | .21 | --- | --- | --- |
| TOTAL | 1,372 | --- | 11.87 | 944 | --- | 9.20 | 693 | --- | 5.03 |
| YEAR | 68,090 | | 141,283.27 TONS | | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 18... | 1635 | 5.0 | 39 | 10.0 | 8 | 0.85 | -- | -- | -- |
| NOV | | | | | | | | | |
| 03... | 1625 | -- | 490 | 20.0 | 1,950 | 2,580 | -- | -- | -- |
| 04... | 1050 | -- | 442 | 20.0 | 830 | 991 | -- | -- | -- |
| 16... | 1415 | -- | 2,080 | 20.0 | 3,850 | 21,600 | 5 | 5 | 9 |
| 17... | 1145 | -- | 2,100 | 20.0 | 3,800 | 21,500 | -- | -- | -- |
| 17... | 1250 | -- | 2,120 | 20.0 | 3,440 | 19,700 | 3 | 4 | 7 |
| 29... | 1525 | -- | 357 | 20.0 | 264 | 254 | -- | -- | -- |
| DEC | | | | | | | | | |
| 07... | 1225 | -- | 196 | 10.0 | 114 | 60 | -- | -- | -- |
| JAN | | | | | | | | | |
| 09... | 1505 | -- | 478 | 10.0 | 310 | 400 | -- | -- | -- |
| 30... | 1620 | -- | 373 | 20.0 | 198 | 199 | -- | -- | -- |
| FEB | | | | | | | | | |
| 01... | 1515 | -- | 304 | 10.0 | 264 | 217 | -- | -- | -- |
| 29... | 1325 | 4.0 | 198 | 10.0 | 41 | 22 | -- | -- | -- |
| MAR | | | | | | | | | |
| 06... | 1000 | 4.5 | 192 | 10.0 | 36 | 19 | -- | -- | -- |
| 27... | 1145 | 5.5 | 351 | 10.0 | 80 | 76 | -- | -- | -- |
| 27... | 1545 | -- | 348 | 20.0 | 144 | 135 | -- | -- | -- |
| MAY | | | | | | | | | |
| 16... | 1530 | 9.0 | 400 | 10.0 | 106 | 114 | -- | -- | -- |
| JUN | | | | | | | | | |
| 28... | 1215 | 12.0 | 133 | 10.0 | 28 | 10 | -- | -- | -- |
| JUL | | | | | | | | | |
| 27... | 1350 | -- | 54 | 10.0 | 2 | 0.29 | -- | -- | -- |
| AUG | | | | | | | | | |
| 15... | 1215 | 11.0 | 42 | 10.0 | 3 | 0.34 | -- | -- | -- |
| SEP | | | | | | | | | |
| 12... | 1345 | 9.5 | 34 | 10.0 | 2 | 0.18 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 18... | -- | -- | 42 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | |
| 03... | -- | -- | 54 | 64 | 73 | 82 | 92 | 98 |
| 04... | -- | -- | 46 | 61 | 75 | 85 | 93 | 97 |
| 16... | 15 | 22 | 30 | 46 | 66 | 81 | 91 | 97 |
| 17... | -- | -- | 21 | 31 | 49 | 69 | 86 | 95 |
| 17... | 11 | 16 | 22 | 32 | 51 | 70 | 85 | 96 |
| 29... | -- | -- | 28 | 39 | 56 | 77 | 91 | 98 |
| DEC | | | | | | | | |
| 07... | -- | -- | 30 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | |
| 09... | -- | -- | 24 | -- | -- | -- | -- | -- |
| 30... | -- | -- | 21 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | |
| 01... | -- | -- | 11 | -- | -- | -- | -- | -- |
| 29... | -- | -- | 26 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | |
| 06... | -- | -- | 19 | -- | -- | -- | -- | -- |
| 27... | -- | -- | 25 | -- | -- | -- | -- | -- |
| 27... | -- | -- | 12 | 21 | 35 | 54 | 72 | 89 |
| MAY | | | | | | | | |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 27... | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 10... | 1410 | -- | 63 | 10.0 | 122 | 21 | 92 | -- | -- | -- | -- | -- |
| 31... | 1345 | 4.0 | 87 | 10.0 | 4 | 0.94 | 63 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 05... | 1330 | 8.5 | 353 | 20.0 | 156 | 149 | 35 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 06... | 1340 | 1.0 | 140 | 10.0 | 27 | 10 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 12... | 1240 | 0.0 | 68 | 10.0 | 8 | 1.5 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 01... | 1335 | 10.0 | 221 | 10.0 | 125 | 75 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 01... | 1335 | 7.0 | 313 | 10.0 | 70 | 59 | -- | -- | -- | -- | -- | -- |
| 17... | 1410 | 6.0 | 568 | 20.0 | 349 | 535 | 32 | 39 | 54 | 72 | 88 | 98 |
| JUN | | | | | | | | | | | | |
| 08... | 1340 | 9.5 | 561 | 10.0 | 395 | 598 | -- | -- | -- | -- | -- | -- |
| 28... | 1150 | 10.0 | 104 | 10.0 | 9 | 2.5 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 02... | 1205 | 13.0 | 52 | 10.0 | 12 | 1.7 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 29... | 1440 | 6.5 | 326 | 20.0 | 134 | 118 | 37 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 13... | 1335 | 3.0 | 229 | 10.0 | 41 | 25 | 51 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 11... | 1250 | 2.0 | 107 | 10.0 | 6 | 1.7 | 33 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 07... | 1220 | 3.5 | 104 | 10.0 | 6 | 1.7 | 52 | -- | -- | -- | -- | -- |
| 24... | 1445 | 4.5 | 331 | 20.0 | 336 | 300 | 31 | 43 | 60 | 76 | 87 | 94 |
| FEB | | | | | | | | | | | | |
| 07... | 1420 | 4.0 | 326 | 20.0 | 380 | 334 | 17 | -- | -- | -- | -- | -- |
| 27... | 1500 | 7.0 | 789 | 20.0 | 706 | 1,500 | -- | -- | -- | -- | -- | -- |
| 28... | 1415 | 7.5 | 633 | 20.0 | 438 | 749 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 19... | 1110 | 5.5 | 254 | 10.0 | 73 | 50 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 18... | 1430 | 7.0 | 154 | 20.0 | 22 | 9.1 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 23... | 1310 | 8.5 | 185 | 10.0 | 28 | 14 | 38 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 09... | 1230 | 11.0 | 90 | 10.0 | 12 | 2.9 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 09... | 1350 | 12.0 | 46 | 10.0 | 4 | 0.50 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 14... | 1225 | 13.5 | 29 | 10.0 | 2 | 0.16 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| OCT | | | | | | | |
| 02... | 1415 | 10.0 | 34 | 10.0 | 2 | 0.18 | -- |
| 16... | 1310 | 7.5 | 29 | 10.0 | 1 | 0.08 | -- |
| NOV | | | | | | | |
| 03... | 1330 | 8.5 | 96 | 10.0 | 8 | 2.1 | -- |
| DEC | | | | | | | |
| 02... | 1340 | 5.0 | 316 | 20.0 | 222 | 189 | 22 |
| 30... | 1435 | 4.5 | 272 | 20.0 | 168 | 123 | 11 |
| JAN | | | | | | | |
| 15... | 1320 | 2.0 | 140 | 10.0 | 35 | 13 | 16 |
| FEB | | | | | | | |
| 04... | 1315 | 5.0 | 429 | 20.0 | 733 | 849 | 21 |
| 06... | 1330 | 5.5 | 353 | 20.0 | 682 | 650 | 18 |
| 23... | 1425 | 5.0 | 204 | 10.0 | 146 | 80 | 12 |
| MAR | | | | | | | |
| 24... | 1320 | 7.0 | 250 | 20.0 | 168 | 113 | 21 |
| APR | | | | | | | |
| 02... | 1130 | 7.5 | 209 | 10.0 | 96 | 54 | 24 |
| 28... | 1350 | 11.0 | 419 | 20.0 | 273 | 309 | 32 |
| MAY | | | | | | | |
| 06... | 1310 | 14.0 | 348 | 10.0 | 131 | 123 | -- |
| JUN | | | | | | | |
| 11... | 1340 | 13.5 | 90 | 10.0 | 8 | 1.9 | -- |
| JUL | | | | | | | |
| 16... | 1230 | 10.0 | 43 | 10.0 | 2 | 0.23 | -- |
| AUG | | | | | | | |
| 24... | 1340 | 13.5 | 28 | 10.0 | 2 | 0.15 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | |
| 29... | 1335 | 0 | 0 | 1 | 11 | 28 | 50 | 69 | 81 | 93 | 100 |
| 29... | 1340 | 0 | 0 | 2 | 9 | 18 | 34 | 62 | 87 | 99 | 100 |
| 29... | 1345 | 0 | 0 | 1 | 6 | 12 | 23 | 40 | 56 | 85 | 100 |
| 29... | 1350 | 0 | 0 | 2 | 12 | 39 | 59 | 70 | 77 | 100 | -- |
| 29... | 1355 | 0 | 1 | 8 | 27 | 49 | 61 | 72 | 85 | 92 | 100 |
| JUN | | | | | | | | | | | |
| 28... | 1230 | 0 | 1 | 5 | 13 | 19 | 28 | 40 | 58 | 76 | 100 |
| 28... | 1232 | 0 | 2 | 9 | 22 | 34 | 48 | 65 | 81 | 94 | 100 |
| 28... | 1234 | 0 | 3 | 14 | 34 | 53 | 67 | 75 | 82 | 88 | 100 |
| 28... | 1236 | 0 | 1 | 7 | 26 | 60 | 75 | 80 | 84 | 90 | 100 |
| AUG | | | | | | | | | | | |
| 15... | 1230 | 1 | 4 | 13 | 27 | 40 | 50 | 55 | 57 | 60 | 100 |
| 15... | 1232 | 0 | 2 | 10 | 24 | 36 | 53 | 67 | 78 | 89 | 100 |
| 15... | 1234 | 0 | 1 | 4 | 16 | 34 | 41 | 47 | 55 | 75 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | |
| 29... | 1335 | 0 | 0 | 1 | 11 | 28 | 50 | 69 | 81 | 93 | 100 |
| 29... | 1340 | 0 | 0 | 2 | 9 | 18 | 34 | 62 | 87 | 99 | 100 |
| 29... | 1345 | 0 | 0 | 1 | 6 | 12 | 23 | 40 | 56 | 85 | 100 |
| 29... | 1350 | 0 | 0 | 2 | 12 | 39 | 59 | 70 | 77 | 100 | -- |
| 29... | 1355 | 0 | 1 | 8 | 27 | 49 | 61 | 72 | 85 | 92 | 100 |
| JUN | | | | | | | | | | | |
| 28... | 1230 | 0 | 1 | 5 | 13 | 19 | 28 | 40 | 58 | 76 | 100 |
| 28... | 1232 | 0 | 2 | 9 | 22 | 34 | 48 | 65 | 81 | 94 | 100 |
| 28... | 1234 | 0 | 3 | 14 | 34 | 53 | 67 | 75 | 82 | 88 | 100 |
| 28... | 1236 | 0 | 1 | 7 | 26 | 60 | 75 | 80 | 84 | 90 | 100 |
| AUG | | | | | | | | | | | |
| 15... | 1230 | 1 | 4 | 13 | 27 | 40 | 50 | 55 | 57 | 60 | 100 |
| 15... | 1232 | 0 | 2 | 10 | 24 | 36 | 53 | 67 | 78 | 89 | 100 |
| 15... | 1234 | 0 | 1 | 4 | 16 | 34 | 41 | 47 | 55 | 75 | 100 |

## 14216350 MUDDY RIVER ABOVE CLEAR CREEK NEAR COUGAR, WA

**LOCATION.**--Lat 46°07′03″, long 122°00′24″, in NW ¼ SE ¼ sec. 1, T.7 N., R.6 E., Skamania County, Hydrologic Unit 17080002, Gifford Pinchot National Forest, on right bank 0.25 mi downstream from Forest Service Road 125, approximately 14 mi northeast of Cougar.

**DRAINAGE AREA.**--84.1 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--August 1980 to July 1984.

**GAGE.**--Water-stage recorder. Altitude of gage is 1,200 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Nov. 7, 1980 | 1250 | 178,000 |
| 1982 | Oct. 6, 1981 | 1645 | 82,500 |
| 1983 | Dec. 3, 1982 | 1250 | 49,800 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 07... | 1155 | 6.5 | 156 | 10.0 | 356 | 150 | -- | -- | -- |
| NOV | | | | | | | | | |
| 01... | 1235 | 8.5 | 184 | 10.0 | 2,020 | 1,000 | -- | -- | -- |
| 03... | 1600 | 10.5 | 2,600 | 20.0 | 15,200 | 107,000 | 4 | 6 | 11 |
| 03... | 2155 | 10.5 | 2,610 | 20.0 | 13,400 | 94,400 | 5 | 6 | 9 |
| 18... | 1235 | 6.5 | 3,490 | 20.0 | 4,180 | 39,400 | 3 | 4 | 7 |
| MAY | | | | | | | | | |
| 08... | 1625 | 11.0 | 879 | 20.0 | 404 | 959 | -- | -- | -- |
| 09... | 1430 | 7.5 | 784 | 20.0 | 638 | 1,350 | -- | -- | -- |
| 10... | 1350 | 8.0 | 792 | 20.0 | 362 | 774 | -- | -- | -- |
| 11... | 1715 | 10.5 | 1,400 | 20.0 | 1,420 | 5,370 | -- | -- | -- |
| 14... | 1525 | 8.0 | 1,070 | 20.0 | 788 | 2,280 | -- | -- | -- |
| JUL | | | | | | | | | |
| 13... | 1250 | 14.0 | 241 | 10.0 | 52 | 34 | -- | -- | -- |

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 07... | -- | -- | 4 | 6 | 11 | 28 | 63 | 90 |
| NOV | | | | | | | | |
| 01... | -- | -- | 32 | 55 | 81 | 96 | 99 | 100 |
| 03... | 16 | 26 | 36 | 53 | 75 | 91 | 97 | 99 |
| 03... | 15 | 22 | 28 | 42 | 65 | 86 | 96 | 99 |
| 18... | 12 | 17 | 37 | 68 | 92 | 99 | 100 | -- |
| MAY | | | | | | | | |
| 08... | -- | -- | 18 | 25 | 38 | 62 | 86 | 96 |
| 09... | -- | -- | 19 | -- | -- | -- | -- | -- |
| 10... | -- | -- | 16 | -- | -- | -- | -- | -- |
| 11... | -- | -- | 48 | -- | -- | -- | -- | -- |
| 14... | -- | -- | 21 | 30 | 47 | 74 | 93 | 97 |
| JUL | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | | | | | | | | | | | |
| 07... | 1203 | 0 | 0 | 0 | 7 | 23 | 42 | 62 | 85 | 99 | 100 |
| 07... | 1204 | 0 | 0 | 0 | 10 | 54 | 91 | 99 | 100 | -- | -- |
| 07... | 1205 | 0 | 0 | 0 | 2 | 18 | 50 | 72 | 88 | 98 | 100 |
| 07... | 1206 | 0 | 0 | 1 | 4 | 10 | 30 | 60 | 85 | 99 | 100 |

## 14216450 CLEAR CREEK NEAR COUGAR, WA

**LOCATION.**--Lat 46°07′40″, long 121°59′20″, in NE ¼ NW ¼ sec. 6, T.7 N., R.7 E., Skamania County, Hydrologic Unit 17080002, Gifford Pinchot National Forest, at bridge crossing on Forest Service Road, on right bank, 1.3 mi upstream from mouth and 15.8 mi northeast of Cougar, WA.

**DRAINAGE AREA.**--46.9 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--October 1983 to June 1985.

**GAGE.**--Water-stage recorder. Altitude of gage is 1,240 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1984 | Nov. 15, 1983 | 1510 | 181 |
| 1985 | Apr. 16, 1985 | 1235 | 12 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 07... | 1135 | 8.0 | 29 | 10.0 | 8 | 0.63 | 48 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 03... | 1655 | -- | 971 | 20.0 | 176 | 461 | 39 | -- | -- | -- | -- | -- |
| 04... | 1530 | -- | -- | 10.0 | 83 | --- | 30 | 39 | 50 | 64 | 92 | 100 |
| 15... | 1510 | -- | 1,680 | 10.0 | 181 | 821 | 34 | -- | -- | -- | -- | -- |
| 17... | 1435 | 6.0 | 2,360 | 20.0 | 148 | 943 | 38 | 47 | 61 | 79 | 90 | 100 |
| 18... | 1250 | 6.5 | 1,680 | 20.0 | 101 | 458 | 31 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 12... | 1200 | 4.0 | 380 | 10.0 | 4 | 4.1 | 42 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 08... | 1200 | 6.5 | 232 | 10.0 | 1 | 0.63 | -- | -- | -- | -- | -- | -- |
| 13... | 1450 | -- | 812 | 20.0 | 54 | 118 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 22... | 1350 | 5.5 | 747 | 20.0 | 16 | 32 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 02... | 1525 | 4.5 | 452 | 10.0 | 12 | 15 | -- | -- | -- | -- | -- | -- |
| 08.. | 1110 | 6.0 | 329 | 20.0 | 1 | 0.89 | -- | -- | -- | -- | -- | -- |
| 09... | 1110 | 6.0 | 366 | 20.0 | 1 | 0.99 | 40 | -- | -- | -- | -- | -- |
| 10... | 1035 | 5.5 | 355 | 20.0 | 1 | 0.96 | 42 | -- | -- | -- | -- | -- |
| 11... | 1105 | 6.0 | 438 | 20.0 | 8 | 9.5 | 31 | -- | -- | -- | -- | -- |
| 14... | 1036 | 6.0 | 562 | 20.0 | 8 | 12 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 27... | 1240 | 45.0 | 284 | 10.0 | 3 | 2.3 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 13... | 1030 | 11.0 | 102 | 10.0 | 2 | 0.55 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 06... | 1425 | 13.0 | 40 | 10.0 | 2 | 0.22 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| NOV | | | | | | | |
| 27... | 1415 | 2.0 | 276 | 10.0 | 2 | 1.5 | -- |
| FEB | | | | | | | |
| 07... | 1435 | 1.0 | 61 | 10.0 | 2 | 0.33 | -- |
| MAR | | | | | | | |
| 15... | 1310 | 5.0 | 116 | 10.0 | 1 | 0.31 | -- |
| APR | | | | | | | |
| 16... | 1235 | 5.0 | 944 | 20.0 | 12 | 31 | -- |
| JUN | | | | | | | |
| 18... | 1135 | -- | 288 | 10.0 | 8 | 6.2 | 55 |

## 14216500 MUDDY RIVER BELOW CLEAR CREEK NEAR COUGAR, WA

**LOCATION.**--Lat 46°04′33″, long 121°59′51″, in NE ¼ SE ¼ sec. 24, T.7 N., R.6 E., Skamania County, Hydrologic Unit 17080002, Gifford Pinchot National Forest, on left bank 3.9 mi downstream from Clear Creek, approximately 14 mi northeast of Cougar, and 0.5 mi upstream from mouth.

**DRAINAGE AREA.**--135 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--October 1983 through September 1987. The gaging station was moved from above Clear Creek to below Clear Creek, with records at the new location beginning with the 1984 water year. Suspended-sediment data were collected at Clear Creek to measure the intervening suspended-sediment discharge, which was found to be insignificant relative to the suspended-sediment discharge of Muddy River above Clear Creek.

**GAGE.**--Water-stage recorder. Altitude of gage is 1,080 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1984 | Nov. 3, 1983 | 1045 | 28,500 |
| 1985 | Nov. 2, 1984 | 1200 | 9,160 |
| 1986 | Feb. 23, 1986 | 1300 | 11,600 |
| 1987 | Nov. 20, 1986 | 0925 | 21,300 |

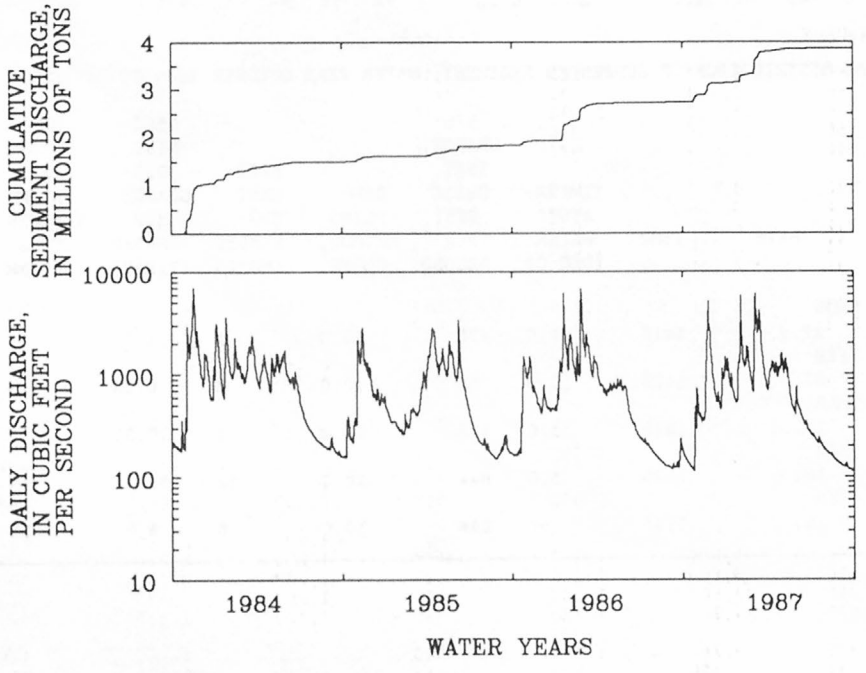


Figure 8.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, Muddy River below Clear Creek near Cougar, Wash. (14216500).

14216500 MUDDY RIVER BELOW CLEAR CREEK NEAR COUGAR, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 218 | 104 | 61 | 292 | 3,270 | 3,040 | 1,180 | --- | 1,500 |
| 2 | 216 | 101 | 59 | 663 | 7,350 | 14,000 | 1,070 | 410 | 1,180 |
| 3 | 216 | 132 | 77 | 2,910 | 23,800 | 198,000 | 978 | 371 | 980 |
| 4 | 218 | 152 | 89 | 2,150 | 4,970 | 28,900 | 918 | 344 | 853 |
| 5 | 211 | 108 | 62 | 1,700 | --- | 10,000 | 924 | 333 | 831 |
| 6 | 206 | 96 | 53 | 1,980 | --- | 15,000 | 835 | 291 | 656 |
| 7 | 206 | 96 | 53 | 1,810 | 1,720 | 8,410 | 780 | 264 | 556 |
| 8 | 204 | 93 | 51 | 1,610 | --- | 5,000 | 842 | 349 | 793 |
| 9 | 204 | 95 | 52 | 1,460 | 1,280 | 5,050 | 979 | 595 | 1,570 |
| 10 | 199 | 95 | 51 | 1,820 | 4,730 | 26,200 | 1,620 | 1,480 | 6,470 |
| 11 | 195 | 74 | 39 | 2,360 | 4,980 | 31,700 | 1,510 | 658 | 2,680 |
| 12 | 193 | 71 | 37 | 2,400 | 5,920 | 38,400 | 1,430 | 493 | 1,900 |
| 13 | 193 | 76 | 40 | 2,490 | 6,830 | 45,900 | 1,520 | 551 | 2,260 |
| 14 | 191 | 78 | 40 | 2,930 | 3,960 | 31,300 | 1,570 | 522 | 2,210 |
| 15 | 186 | 70 | 35 | 4,500 | 7,220 | 87,700 | 1,450 | 360 | 1,410 |
| 16 | 186 | 77 | 39 | 6,210 | 6,500 | 109,000 | 1,310 | 316 | 1,120 |
| 17 | 191 | 209 | 108 | 6,980 | 6,340 | 119,000 | 1,180 | 264 | 841 |
| 18 | 186 | 125 | 63 | 5,400 | 4,370 | 63,700 | 1,070 | 249 | 719 |
| 19 | 182 | 108 | 53 | 4,390 | 3,460 | 41,000 | 954 | --- | 650 |
| 20 | 182 | 108 | 53 | 3,670 | 2,490 | 24,700 | 820 | 285 | 631 |
| 21 | 185 | 669 | 334 | 2,850 | 1,300 | 10,000 | 665 | --- | 600 |
| 22 | 354 | 6,410 | 6,510 | 2,260 | 924 | 5,640 | 612 | --- | 550 |
| 23 | 223 | 377 | 227 | 1,890 | 805 | 4,110 | 576 | --- | 500 |
| 24 | 206 | 218 | 121 | 2,670 | 3,920 | 30,000 | 580 | --- | 500 |
| 25 | 199 | 160 | 86 | 2,380 | 1,180 | 7,580 | 600 | --- | 500 |
| 26 | 197 | 141 | 75 | 2,110 | 885 | 5,040 | 576 | --- | 500 |
| 27 | 193 | 137 | 71 | 1,890 | 737 | 3,760 | 570 | --- | 450 |
| 28 | 188 | 139 | 71 | 1,680 | 650 | 2,950 | 570 | --- | 450 |
| 29 | 186 | 124 | 62 | 1,480 | 549 | 2,190 | 840 | --- | 1,500 |
| 30 | 385 | 16,900 | 31,500 | 1,340 | --- | 2,000 | 1,210 | --- | 3,000 |
| 31 | 283 | 3,280 | 3,160 | --- | --- | --- | 1,090 | --- | 2,500 |
| TOTAL | 6,582 | --- | 43,332 | 78,275 | --- | 979,270 | 30,829 | --- | 40,860 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 912 | --- | 2,000 | 1,180 | 314 | 1,000 | 1,040 | --- | 650 |
| 2 | 1,090 | --- | 2,500 | 1,100 | 285 | 846 | 1,010 | --- | 600 |
| 3 | 2,610 | --- | 15,000 | 1,030 | 268 | 753 | 900 | --- | 500 |
| 4 | 3,130 | 2,360 | 19,900 | 996 | 281 | 756 | 858 | --- | 500 |
| 5 | 2,970 | 1,610 | 12,900 | 972 | 270 | 709 | 835 | --- | 450 |
| 6 | 2,660 | 1,170 | 8,400 | 966 | 266 | 694 | 852 | --- | 550 |
| 7 | 2,370 | 994 | 6,360 | 924 | 274 | 684 | 858 | --- | 600 |
| 8 | 2,070 | 742 | 4,150 | 959 | 397 | 1,030 | 906 | --- | 700 |
| 9 | 1,760 | 571 | 2,710 | 1,010 | 437 | 1,200 | 990 | --- | 850 |
| 10 | 1,590 | 501 | 2,150 | 1,030 | 412 | 1,150 | 1,090 | --- | 1,000 |
| 11 | 1,420 | 470 | 1,810 | 1,150 | 537 | 1,670 | 1,120 | 703 | 2,130 |
| 12 | 1,260 | 392 | 1,330 | 2,280 | 2,610 | 18,700 | 1,480 | 838 | 3,350 |
| 13 | 1,120 | 254 | 768 | 2,160 | 1,330 | 7,760 | 1,570 | 1,020 | 4,320 |
| 14 | 978 | --- | 650 | 1,820 | 906 | 4,450 | 1,810 | --- | 5,000 |
| 15 | 852 | --- | 550 | 1,600 | 614 | 2,650 | 1,900 | --- | 6,500 |
| 16 | 795 | --- | 450 | 1,360 | 595 | 2,180 | 1,830 | --- | 5,000 |
| 17 | 720 | --- | 400 | 1,220 | 470 | 1,550 | 1,730 | 882 | 4,120 |
| 18 | 655 | --- | 350 | 1,160 | 437 | 1,370 | 1,620 | 882 | 3,860 |
| 19 | 624 | --- | 300 | 1,140 | 441 | 1,380 | 1,670 | 777 | 3,500 |
| 20 | 596 | --- | 250 | 1,320 | 598 | 2,150 | 1,970 | 918 | 5,170 |
| 21 | 589 | --- | 250 | 1,270 | --- | 1,500 | 2,380 | 897 | 5,760 |
| 22 | 967 | --- | 4,000 | 1,160 | 408 | 1,290 | 2,280 | 560 | 3,450 |
| 23 | 1,470 | 2,730 | 16,800 | 1,180 | 397 | 1,260 | 2,100 | 465 | 2,640 |
| 24 | 2,780 | 3,810 | 28,600 | 1,230 | 414 | 1,390 | 1,820 | 470 | 2,310 |
| 25 | 3,620 | 3,570 | 34,900 | 1,120 | 366 | 1,120 | 1,650 | 470 | 2,090 |
| 26 | 2,840 | 1,270 | 9,740 | 1,010 | 310 | 854 | 1,480 | 428 | 1,710 |
| 27 | 2,260 | 795 | 4,850 | 920 | 244 | 613 | 1,280 | 328 | 1,130 |
| 28 | 1,850 | 584 | 2,920 | 950 | --- | 650 | 1,180 | 360 | 1,150 |
| 29 | 1,620 | 488 | 2,130 | 900 | --- | 550 | 1,080 | 267 | 779 |
| 30 | 1,400 | 419 | 1,580 | --- | --- | --- | 1,020 | 302 | 832 |
| 31 | 1,260 | 380 | 1,290 | --- | --- | --- | 960 | 292 | 757 |
| TOTAL | 50,838 | --- | 189,988 | 35,117 | --- | 61,909 | 43,269 | --- | 71,958 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 906 | 280 | 685 | 1,120 | --- | 1,500 | 1,170 | 281 | 888 |
| 2 | 846 | --- | 750 | 1,470 | 540 | 2,140 | 1,060 | 353 | 1,010 |
| 3 | 820 | 390 | 863 | 1,360 | 459 | 1,690 | 980 | 360 | 953 |
| 4 | 800 | 450 | 972 | 1,230 | 306 | 1,020 | 1,020 | 405 | 1,120 |
| 5 | 800 | 399 | 862 | 1,140 | --- | 750 | 985 | 331 | 880 |
| 6 | 743 | 409 | 820 | 1,040 | --- | 650 | 955 | 356 | 918 |
| 7 | 982 | 742 | 1,970 | 970 | --- | 600 | 930 | 389 | 977 |
| 8 | 979 | 455 | 1,200 | 1,080 | 322 | 939 | 885 | 407 | 973 |
| 9 | 984 | 616 | 1,640 | 1,140 | 313 | 955 | 865 | 433 | 1,010 |
| 10 | 1,100 | 626 | 1,860 | 1,080 | 225 | 650 | 830 | 366 | 820 |
| 11 | 1,090 | 1,190 | 3,500 | 1,450 | 555 | 2,170 | 834 | 419 | 944 |
| 12 | 1,280 | 795 | 2,750 | 1,540 | --- | 2,000 | 882 | 1,040 | 2,690 |
| 13 | 1,210 | 318 | 1,040 | 1,580 | --- | 2,000 | 907 | 1,750 | 4,290 |
| 14 | 1,290 | 413 | 1,440 | 1,600 | 460 | 1,990 | 915 | 720 | 1,780 |
| 15 | 1,570 | 727 | 3,080 | 1,480 | --- | 1,500 | 960 | 546 | 1,420 |
| 16 | 1,540 | 434 | 1,800 | 1,290 | --- | 1,500 | 905 | 420 | 1,030 |
| 17 | 1,420 | --- | 1,500 | 1,150 | 298 | 925 | 810 | --- | 550 |
| 18 | 1,310 | --- | 1,500 | 1,070 | 340 | 982 | 756 | --- | 350 |
| 19 | 1,220 | --- | 1,500 | 1,190 | --- | 2,000 | 732 | 120 | 237 |
| 20 | 1,110 | --- | 1,000 | 1,270 | 503 | 1,720 | 822 | 334 | 741 |
| 21 | 1,070 | --- | 1,000 | 1,210 | --- | 1,000 | 1,070 | 275 | 794 |
| 22 | 1,030 | --- | 950 | 1,310 | 478 | 1,690 | 934 | 124 | 313 |
| 23 | 984 | --- | 900 | 1,510 | 547 | 2,230 | 850 | 92 | 211 |
| 24 | 906 | 318 | 778 | 1,370 | 351 | 1,300 | 855 | 83 | 192 |
| 25 | 846 | 312 | 713 | 1,360 | --- | 1,500 | 825 | 86 | 192 |
| 26 | 775 | 312 | 653 | 1,600 | 671 | 2,900 | 800 | 105 | 227 |
| 27 | 705 | 290 | 552 | 1,510 | 242 | 987 | 736 | 112 | 223 |
| 28 | 708 | 257 | 491 | 1,520 | 324 | 1,330 | 672 | 108 | 196 |
| 29 | 674 | --- | 400 | 1,640 | 681 | 3,020 | 676 | 104 | 190 |
| 30 | 713 | --- | 350 | 1,720 | 705 | 3,270 | 608 | 60 | 98 |
| 31 | --- | --- | --- | 1,470 | 308 | 1,220 | --- | --- | --- |
| TOTAL | 30,411 | --- | 37,519 | 41,470 | --- | 48,128 | 26,229 | --- | 26,217 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 546 | 52 | 77 | 248 | --- | 35 | 196 | 40 | 21 |
| 2 | 514 | 36 | 50 | 246 | --- | 35 | 190 | 35 | 18 |
| 3 | 498 | 44 | 59 | 242 | --- | 35 | 187 | 40 | 20 |
| 4 | 489 | 40 | 53 | 238 | --- | 30 | 185 | 41 | 20 |
| 5 | 470 | 40 | 51 | 234 | --- | 30 | 208 | 163 | 116 |
| 6 | 450 | 31 | 38 | 230 | 48 | 30 | 235 | 330 | 209 |
| 7 | 440 | 36 | 43 | 228 | --- | 30 | 246 | 311 | 207 |
| 8 | 420 | 40 | 45 | 228 | --- | 30 | 230 | 291 | 181 |
| 9 | 400 | 26 | 28 | 226 | --- | 25 | 207 | 73 | 41 |
| 10 | 380 | 24 | 25 | 222 | --- | 25 | 196 | 52 | 28 |
| 11 | 365 | --- | 25 | 220 | --- | 25 | 192 | 42 | 22 |
| 12 | 360 | 28 | 27 | 220 | --- | 25 | 194 | 34 | 18 |
| 13 | 350 | 33 | 31 | 218 | --- | 25 | 185 | 27 | 13 |
| 14 | 343 | 46 | 43 | 216 | --- | 25 | 180 | 38 | 18 |
| 15 | 336 | 50 | 45 | 214 | --- | 25 | 178 | --- | 15 |
| 16 | 326 | 48 | 42 | 210 | --- | 25 | 176 | 30 | 14 |
| 17 | 322 | --- | 45 | 210 | --- | 25 | 173 | 42 | 20 |
| 18 | 314 | --- | 40 | 208 | --- | 20 | 173 | --- | 20 |
| 19 | 310 | --- | 45 | 205 | --- | 20 | 171 | 43 | 20 |
| 20 | 298 | --- | 40 | 203 | --- | 20 | 170 | 44 | 20 |
| 21 | 295 | --- | 45 | 201 | --- | 20 | 166 | 32 | 14 |
| 22 | 290 | --- | 45 | 201 | --- | 20 | 181 | 139 | 68 |
| 23 | 286 | --- | 45 | 201 | --- | 20 | 178 | 38 | 18 |
| 24 | 281 | 57 | 43 | 199 | 34 | 18 | 176 | 135 | 64 |
| 25 | 278 | --- | 40 | 198 | 35 | 19 | 165 | 31 | 14 |
| 26 | 274 | --- | 40 | 196 | --- | 20 | 163 | 15 | 6.6 |
| 27 | 271 | --- | 40 | 196 | --- | 20 | 160 | 18 | 7.8 |
| 28 | 264 | --- | 40 | 192 | 41 | 21 | 160 | 18 | 7.8 |
| 29 | 259 | --- | 40 | 190 | 43 | 22 | 158 | 15 | 6.4 |
| 30 | 257 | --- | 35 | 190 | --- | 25 | 158 | 15 | 6.4 |
| 31 | 252 | --- | 35 | 190 | 47 | 24 | --- | --- | --- |
| TOTAL | 10,938 | --- | 1,300 | 6,620 | --- | 769 | 5,537 | --- | 1,254.0 |
| YEAR | 366,115 | | 1,502,504 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 158 | 18 | 7.7 | 330 | 508 | 453 | 962 | 137 | 356 |
| 2 | 158 | 19 | 8.1 | 2,110 | 5,890 | 33,600 | 833 | 118 | 265 |
| 3 | 157 | 25 | 11 | 2,170 | 953 | 5,580 | 744 | --- | 220 |
| 4 | 162 | 174 | 76 | 1,930 | 593 | 3,090 | 685 | --- | 200 |
| 5 | 162 | 64 | 28 | 1,570 | 411 | 1,740 | 642 | --- | 170 |
| 6 | 157 | 17 | 7.2 | 1,490 | 346 | 1,390 | 611 | --- | 150 |
| 7 | 158 | 20 | 8.5 | 1,540 | 341 | 1,420 | 608 | --- | 150 |
| 8 | 157 | 47 | 20 | 1,340 | 291 | 1,050 | 649 | 101 | 177 |
| 9 | 171 | 528 | 244 | 1,290 | 294 | 1,020 | 630 | 126 | 214 |
| 10 | 360 | 3,750 | 4,080 | 1,700 | 804 | 4,150 | 618 | 90 | 150 |
| 11 | 315 | 981 | 895 | 1,950 | 851 | 4,480 | 573 | 49 | 76 |
| 12 | 313 | 1,370 | 1,430 | 2,540 | 1,160 | 7,960 | 581 | 53 | 83 |
| 13 | 389 | 573 | 602 | 2,820 | 1,180 | 8,980 | 568 | 61 | 94 |
| 14 | 346 | 152 | 142 | 2,310 | 627 | 3,910 | 718 | 163 | 316 |
| 15 | 290 | 130 | 102 | 1,870 | 610 | 3,080 | 726 | 100 | 196 |
| 16 | 260 | 108 | 76 | 1,500 | 474 | 1,920 | 634 | 52 | 89 |
| 17 | 243 | 104 | 68 | 1,240 | 374 | 1,250 | 604 | 59 | 96 |
| 18 | 236 | 74 | 47 | 1,390 | 735 | 2,760 | 530 | --- | 80 |
| 19 | 231 | 88 | 55 | 1,270 | 417 | 1,430 | 506 | --- | 60 |
| 20 | 238 | 86 | 55 | 1,250 | 367 | 1,240 | 507 | --- | 60 |
| 21 | 227 | 67 | 41 | 1,160 | 299 | 936 | 518 | --- | 70 |
| 22 | 219 | 73 | 43 | 1,080 | 250 | 729 | 573 | --- | 100 |
| 23 | 217 | 78 | 46 | 1,300 | 566 | 2,210 | 655 | 60 | 106 |
| 24 | 219 | 70 | 41 | 1,200 | 314 | 1,020 | 605 | 54 | 88 |
| 25 | 294 | 677 | 612 | 1,060 | 243 | 695 | 569 | 30 | 46 |
| 26 | 339 | 341 | 312 | 952 | 220 | 565 | 554 | 28 | 42 |
| 27 | 365 | 249 | 245 | 974 | 234 | 615 | 569 | 44 | 68 |
| 28 | 380 | 185 | 190 | 1,180 | 283 | 902 | 536 | 79 | 114 |
| 29 | 343 | 138 | 128 | 1,130 | 169 | 516 | 567 | 111 | 170 |
| 30 | 337 | 167 | 152 | 1,090 | 163 | 480 | 618 | 97 | 162 |
| 31 | 320 | 122 | 105 | --- | --- | --- | 543 | 134 | 196 |
| TOTAL | 7,921 | --- | 9,877.5 | 44,736 | --- | 99,171 | 19,236 | --- | 4,364 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 500 | | 150 | 290 | | 10 | 472 | --- | 60 |
| 2 | 485 | | 100 | 285 | | 10 | 447 | --- | 60 |
| 3 | 466 | | 40 | 278 | | 10 | 436 | --- | 50 |
| 4 | 448 | | 25 | 293 | | 20 | 441 | --- | 50 |
| 5 | 444 | | 20 | 263 | | 10 | 436 | --- | 50 |
| 6 | 437 | | 20 | 265 | | 10 | 423 | --- | 50 |
| 7 | 425 | | 20 | 270 | | 10 | 405 | --- | 40 |
| 8 | 408 | | 20 | 267 | | 10 | 402 | --- | 40 |
| 9 | 392 | | 20 | 263 | | 10 | 404 | --- | 40 |
| 10 | 375 | | 20 | 264 | | 10 | 401 | --- | 40 |
| 11 | 356 | | 20 | 303 | | 25 | 414 | --- | 45 |
| 12 | 347 | | 20 | 411 | | 50 | 429 | --- | 50 |
| 13 | 347 | | 20 | 322 | | 20 | 434 | --- | 50 |
| 14 | 345 | | 20 | 314 | | 20 | 451 | --- | 60 |
| 15 | 345 | | 20 | 343 | | 30 | 482 | 62 | 81 |
| 16 | 339 | | 20 | 323 | | 20 | 528 | 105 | 150 |
| 17 | 343 | | 30 | 308 | | 20 | 620 | 154 | 258 |
| 18 | 352 | | 40 | 304 | | 20 | 696 | 163 | 306 |
| 19 | 348 | | 60 | 307 | | 20 | 732 | 141 | 279 |
| 20 | 353 | | 60 | 305 | | 20 | 769 | 142 | 295 |
| 21 | 348 | | 60 | 306 | | 20 | 782 | 104 | 220 |
| 22 | 346 | | 60 | 349 | | 40 | 746 | 79 | 159 |
| 23 | 340 | | 60 | 387 | | 50 | 999 | 344 | 1,100 |
| 24 | 329 | | 50 | 450 | | 60 | 1,070 | 307 | 887 |
| 25 | 316 | | 40 | 456 | | 60 | 952 | 189 | 486 |
| 26 | 307 | | 30 | 434 | | 50 | 924 | 135 | 337 |
| 27 | 302 | | 20 | 428 | | 50 | 894 | 115 | 278 |
| 28 | 307 | | 20 | 443 | | 50 | 789 | 95 | 202 |
| 29 | 302 | | 15 | --- | | | 729 | 87 | 171 |
| 30 | 282 | | 15 | --- | | | 867 | 249 | 668 |
| 31 | 288 | | 10 | --- | | | 1,050 | 341 | 967 |
| TOTAL | 11,322 | | 1,125 | 9,231 | | 735 | 19,624 | --- | 7,529 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 1,190 | 497 | 1,600 | 1,350 | 308 | 1,120 | 965 | --- | 420 |
| 2 | 1,380 | 665 | 2,480 | 1,550 | 616 | 2,580 | 919 | --- | 370 |
| 3 | 1,530 | 579 | 2,390 | 1,780 | 1,070 | 5,140 | 871 | --- | 300 |
| 4 | 1,480 | 338 | 1,350 | 1,630 | 522 | 2,300 | 949 | 156 | 400 |
| 5 | 1,490 | 422 | 1,700 | 1,440 | 366 | 1,420 | 932 | 180 | 453 |
| 6 | 1,560 | 488 | 2,060 | 1,300 | 324 | 1,140 | 1,400 | 1,760 | 9,200 |
| 7 | 1,740 | 608 | 2,860 | 1,200 | 374 | 1,210 | 3,380 | 5,990 | 58,000 |
| 8 | 1,950 | 523 | 2,750 | 1,140 | 322 | 991 | 2,590 | 645 | 4,510 |
| 9 | 2,130 | 579 | 3,330 | 1,090 | 219 | 645 | 1,820 | 326 | 1,600 |
| 10 | 2,410 | 637 | 4,140 | 1,080 | 240 | 700 | 1,460 | 328 | 1,290 |
| 11 | 2,640 | 918 | 6,540 | 1,030 | 280 | 779 | 1,280 | 294 | 1,020 |
| 12 | 2,820 | 578 | 4,400 | 973 | 241 | 633 | 1,200 | 233 | 755 |
| 13 | 2,680 | 434 | 3,140 | 966 | 334 | 871 | 1,100 | 176 | 523 |
| 14 | 2,630 | 439 | 3,120 | 984 | 300 | 797 | 1,010 | 141 | 385 |
| 15 | 2,670 | 508 | 3,660 | 1,010 | 292 | 796 | 932 | 121 | 304 |
| 16 | 2,550 | 448 | 3,080 | 1,280 | 857 | 3,200 | 868 | 103 | 241 |
| 17 | 2,230 | 390 | 2,350 | 1,820 | 2,060 | 10,100 | 817 | 101 | 223 |
| 18 | 1,940 | 324 | 1,700 | 2,090 | 983 | 5,550 | 784 | 91 | 193 |
| 19 | 1,670 | 274 | 1,240 | 2,050 | 613 | 3,390 | 761 | 86 | 177 |
| 20 | 1,450 | 229 | 897 | 1,800 | 355 | 1,730 | 727 | 79 | 155 |
| 21 | 1,260 | 200 | 680 | 1,620 | 315 | 1,380 | 687 | 76 | 141 |
| 22 | 1,200 | 218 | 706 | 1,570 | 262 | 1,110 | 646 | 70 | 122 |
| 23 | 1,280 | 331 | 1,140 | 1,600 | 248 | 1,070 | 606 | 76 | 124 |
| 24 | 1,100 | 216 | 642 | 1,670 | 252 | 1,140 | 573 | 56 | 87 |
| 25 | 1,040 | 204 | 573 | 1,560 | 219 | 922 | 543 | 46 | 67 |
| 26 | 1,010 | 213 | 581 | 1,400 | --- | 800 | 515 | 45 | 63 |
| 27 | 1,170 | 377 | 1,190 | 1,300 | --- | 650 | 493 | 50 | 67 |
| 28 | 1,280 | 359 | 1,240 | 1,190 | --- | 540 | 470 | 45 | 57 |
| 29 | 1,280 | 359 | 1,240 | 1,100 | --- | 470 | 446 | 44 | 53 |
| 30 | 1,290 | 227 | 791 | 1,000 | --- | 400 | 423 | 46 | 53 |
| 31 | --- | --- | --- | 941 | --- | 360 | --- | --- | --- |
| TOTAL | 52,050 | --- | 63,570 | 42,514 | --- | 53,934 | 30,167 | --- | 81,353 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 402 | 61 | 66 | 239 | | 300 | 163 | --- | 200 |
| 2 | 385 | 63 | 65 | 215 | | 200 | 168 | --- | 200 |
| 3 | 370 | 81 | 81 | 204 | | 160 | 167 | --- | 200 |
| 4 | 355 | 86 | 82 | 195 | | 140 | 168 | --- | 200 |
| 5 | 339 | 67 | 61 | 188 | | 120 | 177 | --- | 200 |
| 6 | 326 | 63 | 55 | 183 | | 100 | 195 | --- | 300 |
| 7 | 313 | 71 | 60 | 187 | | 150 | 181 | --- | 250 |
| 8 | 302 | 108 | 88 | 212 | | 200 | 178 | --- | 250 |
| 9 | 296 | 143 | 114 | 188 | | 150 | 186 | --- | 250 |
| 10 | 287 | 156 | 121 | 182 | | 150 | 212 | 1,770 | 1,080 |
| 11 | 280 | 123 | 93 | 179 | | 150 | 185 | 407 | 203 |
| 12 | 272 | 96 | 71 | 177 | | 150 | 226 | 2,750 | 1,800 |
| 13 | 264 | 103 | 73 | 174 | | 150 | 238 | 1,340 | 861 |
| 14 | 258 | 104 | 72 | 171 | | 150 | 253 | 1,520 | 1,040 |
| 15 | 251 | 110 | 75 | 169 | | 150 | 219 | 403 | 238 |
| 16 | 248 | 288 | 193 | 167 | | 150 | 210 | 524 | 327 |
| 17 | 243 | 152 | 100 | 165 | | 150 | 255 | 663 | 456 |
| 18 | 237 | 262 | 168 | 164 | | 150 | 215 | 253 | 147 |
| 19 | 233 | 311 | 196 | 163 | | 150 | 196 | 181 | 96 |
| 20 | 228 | 325 | 200 | 161 | | 150 | 188 | 149 | 76 |
| 21 | 223 | 199 | 120 | 159 | | 150 | 183 | 140 | 69 |
| 22 | 218 | 209 | 123 | 157 | | 150 | 179 | 136 | 66 |
| 23 | 217 | 279 | 163 | 155 | | 150 | 176 | 127 | 60 |
| 24 | 214 | 242 | 140 | 153 | | 160 | 174 | 119 | 56 |
| 25 | 212 | --- | 140 | 152 | | 180 | 173 | 110 | 51 |
| 26 | 209 | --- | 140 | 151 | | 200 | 172 | --- | 50 |
| 27 | 208 | --- | 140 | 151 | | 200 | 172 | --- | 50 |
| 28 | 206 | --- | 140 | 153 | | 200 | 170 | --- | 50 |
| 29 | 205 | --- | 140 | 155 | | 200 | 168 | --- | 50 |
| 30 | 205 | --- | 140 | 158 | | 200 | 168 | --- | 50 |
| 31 | 222 | --- | 180 | 161 | | 200 | --- | --- | --- |
| TOTAL | 8,228 | --- | 3,600 | 5,388 | | 5,160 | 5,715 | --- | 8,926 |
| YEAR | 256,132 | | 339,344.5 | TONS | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 167 | 99 | 45 | 926 | 357 | 893 | 415 | --- | 25 |
| 2 | 167 | 99 | 45 | 913 | 303 | 747 | 420 | --- | 30 |
| 3 | 165 | 101 | 45 | 935 | 321 | 810 | 457 | --- | 40 |
| 4 | 162 | 88 | 38 | 1,040 | 417 | 1,170 | 474 | --- | 40 |
| 5 | 161 | 95 | 41 | 1,040 | 387 | 1,090 | 496 | --- | 50 |
| 6 | 164 | 114 | 50 | 1,310 | 803 | 2,840 | 697 | --- | 175 |
| 7 | 167 | 119 | 54 | 1,480 | 895 | 3,580 | 791 | --- | 275 |
| 8 | 165 | 92 | 41 | 1,440 | 570 | 2,220 | 687 | --- | 160 |
| 9 | 162 | 71 | 31 | 1,310 | 419 | 1,480 | 611 | --- | 110 |
| 10 | 163 | 97 | 43 | 1,110 | 328 | 983 | 578 | 64 | 100 |
| 11 | 177 | 437 | 209 | 897 | --- | 420 | 546 | --- | 65 |
| 12 | 175 | 168 | 79 | 774 | --- | 250 | 518 | --- | 50 |
| 13 | 166 | 88 | 39 | 709 | --- | 180 | 495 | --- | 35 |
| 14 | 172 | 186 | 86 | 675 | --- | 150 | 476 | --- | 30 |
| 15 | 174 | 164 | 77 | 761 | --- | 240 | 464 | --- | 25 |
| 16 | 188 | --- | 665 | 777 | --- | 250 | 460 | --- | 25 |
| 17 | 176 | 190 | 90 | 710 | --- | 180 | 465 | --- | 25 |
| 18 | 170 | 119 | 55 | 668 | --- | 150 | 476 | --- | 30 |
| 19 | 214 | --- | 1,420 | 670 | --- | 150 | 465 | --- | 25 |
| 20 | 419 | --- | 8,750 | 653 | --- | 130 | 447 | --- | 20 |
| 21 | 310 | 689 | 577 | 614 | --- | 110 | 435 | --- | 15 |
| 22 | 567 | 3,630 | 5,560 | 579 | --- | 90 | 437 | --- | 15 |
| 23 | 545 | 1,460 | 2,150 | 526 | --- | 65 | 457 | --- | 20 |
| 24 | 1,010 | --- | 22,100 | 511 | --- | 60 | 466 | --- | 25 |
| 25 | 1,490 | --- | 15,800 | 516 | --- | 60 | 468 | --- | 25 |
| 26 | 1,300 | 1,580 | 5,550 | 518 | 39 | 55 | 466 | --- | 25 |
| 27 | 1,240 | 1,290 | 4,320 | 510 | --- | 50 | 456 | 18 | 22 |
| 28 | 1,260 | 980 | 3,330 | 479 | --- | 45 | 453 | --- | 20 |
| 29 | 1,100 | 654 | 1,940 | 447 | --- | 35 | 456 | --- | 20 |
| 30 | 1,010 | 498 | 1,360 | 433 | --- | 30 | 447 | --- | 20 |
| 31 | 932 | 388 | 976 | --- | --- | --- | 443 | --- | 20 |
| TOTAL | 14,438 | --- | 75,566 | 23,931 | --- | 18,513 | 15,422 | --- | 1,562 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 496 | --- | 35 | 2,430 | 2,010 | 13,200 | 2,500 | 683 | 4,610 |
| 2 | 469 | --- | 30 | 2,380 | 1,320 | 8,480 | 2,120 | 566 | 3,240 |
| 3 | 479 | --- | 30 | 2,400 | 1,160 | 7,520 | 1,880 | 491 | 2,490 |
| 4 | 444 | --- | 20 | 2,180 | 907 | 5,340 | 1,780 | 418 | 2,010 |
| 5 | 561 | --- | 100 | 1,920 | 809 | 4,190 | 1,620 | 371 | 1,620 |
| 6 | 713 | --- | 310 | 1,630 | 587 | 2,580 | 1,490 | 314 | 1,260 |
| 7 | 572 | --- | 65 | 1,420 | 474 | 1,820 | 2,350 | --- | 15,000 |
| 8 | 708 | --- | 310 | 1,280 | 401 | 1,390 | 2,460 | --- | 10,000 |
| 9 | 1,010 | --- | 1,100 | 1,180 | --- | 1,100 | 2,200 | --- | 7,000 |
| 10 | 1,150 | 764 | 2,370 | 1,120 | --- | 1,000 | 1,940 | --- | 4,100 |
| 11 | 1,330 | --- | 2,800 | 1,050 | --- | 850 | 1,990 | 755 | 4,060 |
| 12 | 1,250 | --- | 1,500 | 980 | --- | 700 | 1,950 | 690 | 3,630 |
| 13 | 1,140 | --- | 760 | 915 | --- | 600 | 1,840 | 613 | 3,050 |
| 14 | 1,080 | 160 | 467 | 853 | --- | 500 | 1,720 | 501 | 2,330 |
| 15 | 1,050 | 104 | 295 | 1,130 | --- | 8,000 | 1,520 | 409 | 1,680 |
| 16 | 1,310 | 214 | 757 | 1,860 | --- | 6,000 | 1,340 | 354 | 1,280 |
| 17 | 1,620 | --- | 1,000 | 1,370 | --- | 2,500 | 1,200 | 301 | 975 |
| 18 | 4,910 | --- | 150,000 | 1,140 | --- | 1,500 | 1,110 | 268 | 803 |
| 19 | 6,140 | 7,140 | 127,000 | 1,040 | --- | 1,000 | 1,030 | 259 | 720 |
| 20 | 3,570 | 3,000 | 28,900 | 982 | --- | 800 | 977 | 241 | 636 |
| 21 | 2,640 | 1,560 | 11,100 | 968 | --- | 750 | 1,010 | 293 | 799 |
| 22 | 2,290 | 981 | 6,070 | 1,070 | --- | 1,500 | 939 | 248 | 629 |
| 23 | 2,080 | 746 | 4,190 | 4,120 | 6,470 | 86,100 | 1,170 | 1,490 | 6,580 |
| 24 | 1,880 | 568 | 2,880 | 6,780 | 3,940 | 72,100 | 1,510 | 1,160 | 4,730 |
| 25 | 1,660 | 448 | 2,010 | 5,770 | 2,740 | 42,700 | 1,350 | 559 | 2,040 |
| 26 | 1,450 | --- | 1,740 | 4,370 | 1,560 | 18,400 | 1,370 | 603 | 2,230 |
| 27 | 1,250 | --- | 1,630 | 3,460 | 1,210 | 11,300 | 1,330 | 464 | 1,670 |
| 28 | 1,100 | 519 | 1,540 | 2,880 | 915 | 7,120 | 1,310 | 402 | 1,420 |
| 29 | 1,150 | 492 | 1,530 | --- | --- | --- | 1,290 | 360 | 1,250 |
| 30 | 1,810 | 1,750 | 8,550 | --- | --- | --- | 1,300 | 398 | 1,400 |
| 31 | 2,020 | 1,150 | 6,270 | --- | --- | --- | 1,190 | 335 | 1,080 |
| TOTAL | 49,332 | --- | 365,359 | 58,678 | --- | 309,040 | 48,786 | --- | 94,322 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 1,090 | 279 | 821 | 693 | 116 | 217 | 696 | --- | 140 |
| 2 | 1,000 | 253 | 683 | 738 | 171 | 341 | 639 | --- | 100 |
| 3 | 917 | 229 | 567 | 736 | 127 | 252 | 586 | --- | 75 |
| 4 | 860 | 198 | 460 | 743 | 157 | 315 | 532 | --- | 50 |
| 5 | 808 | 175 | 382 | 821 | 446 | 989 | 474 | 33 | 42 |
| 6 | 778 | 159 | 334 | 771 | 201 | 418 | 444 | 22 | 26 |
| 7 | 778 | 171 | 359 | 739 | --- | 375 | 428 | 19 | 22 |
| 8 | 796 | 223 | 479 | 732 | --- | 350 | 411 | 21 | 23 |
| 9 | 789 | 188 | 400 | 741 | --- | 350 | 395 | 26 | 28 |
| 10 | 779 | 207 | 435 | 743 | --- | 350 | 382 | 56 | 58 |
| 11 | 779 | 186 | 391 | 720 | --- | 300 | 370 | 91 | 91 |
| 12 | 758 | --- | 350 | 725 | --- | 300 | 361 | 98 | 96 |
| 13 | 704 | --- | 300 | 893 | 297 | 716 | 350 | 92 | 87 |
| 14 | 660 | --- | 250 | 811 | 177 | 388 | 343 | 95 | 88 |
| 15 | 663 | --- | 250 | 778 | 111 | 233 | 331 | 50 | 45 |
| 16 | 720 | --- | 300 | 763 | 97 | 200 | 326 | 44 | 39 |
| 17 | 692 | --- | 275 | 761 | 99 | 203 | 322 | 25 | 22 |
| 18 | 645 | --- | 225 | 790 | 117 | 250 | 335 | 37 | 33 |
| 19 | 613 | --- | 200 | 811 | 98 | 215 | 320 | 40 | 35 |
| 20 | 613 | --- | 200 | 879 | 191 | 453 | 298 | --- | 50 |
| 21 | 651 | --- | 250 | 840 | 116 | 263 | 289 | --- | 50 |
| 22 | 713 | --- | 300 | 785 | 102 | 216 | 281 | --- | 50 |
| 23 | 698 | --- | 275 | 714 | 73 | 141 | 277 | --- | 50 |
| 24 | 674 | --- | 250 | 690 | 56 | 104 | 270 | 70 | 51 |
| 25 | 702 | --- | 300 | 705 | 60 | 114 | 263 | 105 | 75 |
| 26 | 702 | --- | 300 | 755 | 71 | 145 | 257 | 161 | 112 |
| 27 | 815 | --- | 425 | 759 | 61 | 125 | 252 | 62 | 42 |
| 28 | 780 | 237 | 499 | 747 | 62 | 125 | 250 | 110 | 74 |
| 29 | 734 | 144 | 285 | 744 | 105 | 211 | 245 | 53 | 35 |
| 30 | 701 | 132 | 250 | 766 | 155 | 321 | 241 | 63 | 41 |
| 31 | --- | --- | --- | 745 | --- | 170 | --- | --- | --- |
| TOTAL | 22,612 | --- | 10,795 | 23,638 | --- | 9,150 | 10,968 | --- | 1,730 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 236 | 112 | 71 | 164 | --- | 100 | 125 | 821 | 277 |
| 2 | 234 | 86 | 54 | 162 | --- | 100 | 124 | 1110 | 372 |
| 3 | 231 | 66 | 41 | 160 | --- | 100 | 123 | 1600 | 531 |
| 4 | 237 | 50 | 32 | 158 | --- | 100 | 122 | 927 | 305 |
| 5 | 227 | 30 | 18 | 156 | --- | 100 | 122 | 594 | 196 |
| 6 | 222 | 36 | 22 | 155 | --- | 100 | 121 | 503 | 164 |
| 7 | 222 | 103 | 62 | 153 | --- | 100 | 120 | 555 | 180 |
| 8 | 221 | 201 | 120 | 152 | --- | 100 | 122 | 486 | 160 |
| 9 | 216 | 144 | 84 | 150 | --- | 100 | 133 | --- | 180 |
| 10 | 228 | 147 | 90 | 150 | --- | 100 | 126 | --- | 200 |
| 11 | 236 | 250 | 159 | 147 | --- | 100 | 124 | --- | 200 |
| 12 | 215 | 68 | 39 | 145 | --- | 100 | 123 | --- | 200 |
| 13 | 209 | 67 | 38 | 143 | --- | 120 | 122 | --- | 200 |
| 14 | 205 | 96 | 53 | 141 | --- | 140 | 123 | --- | 200 |
| 15 | 202 | 37 | 20 | 139 | 444 | 167 | 124 | --- | 200 |
| 16 | 210 | 45 | 26 | 139 | 457 | 172 | 125 | --- | 200 |
| 17 | 208 | 27 | 15 | 138 | 293 | 109 | 129 | --- | 200 |
| 18 | 203 | 19 | 10 | 136 | 285 | 105 | 140 | --- | 200 |
| 19 | 199 | 72 | 39 | 135 | 398 | 145 | 128 | --- | 200 |
| 20 | 196 | 183 | 97 | 133 | 483 | 173 | 125 | --- | 200 |
| 21 | 192 | 148 | 77 | 132 | 709 | 253 | 123 | --- | 200 |
| 22 | 189 | 155 | 79 | 131 | 746 | 264 | 124 | --- | 200 |
| 23 | 187 | 264 | 133 | 129 | 683 | 238 | 162 | --- | 300 |
| 24 | 185 | 271 | 135 | 129 | 676 | 235 | 193 | 935 | 487 |
| 25 | 181 | 339 | 166 | 129 | 606 | 211 | 231 | 2,360 | 1,580 |
| 26 | 178 | 203 | 98 | 128 | 632 | 218 | 236 | 1,350 | 911 |
| 27 | 174 | 97 | 46 | 126 | 707 | 241 | 190 | 380 | 195 |
| 28 | 174 | 146 | 69 | 126 | 937 | 319 | 183 | 328 | 162 |
| 29 | 170 | --- | 80 | 126 | 1,740 | 592 | 196 | 484 | 256 |
| 30 | 168 | --- | 100 | 128 | --- | 340 | 183 | 257 | 127 |
| 31 | 166 | --- | 100 | 127 | 1,410 | 483 | --- | --- | --- |
| TOTAL | 6,321 | --- | 2,173 | 4,367 | --- | 5,725 | 4,322 | --- | 8,983 |
| YEAR | 282,815 | | 902,918 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 171 | 200 | 92 | 567 | 357 | 2,500 | 1,370 | 440 | 1,630 |
| 2 | 167 | 167 | 75 | 477 | 303 | 1,600 | 1,180 | 324 | 1,030 |
| 3 | 161 | 160 | 70 | 438 | 845 | 999 | 1,030 | --- | 680 |
| 4 | 159 | 174 | 75 | 395 | 605 | 645 | 934 | --- | 500 |
| 5 | 155 | 1,190 | 498 | 388 | 754 | 790 | 873 | 191 | 450 |
| 6 | 152 | 485 | 199 | 383 | 526 | 544 | 783 | --- | 370 |
| 7 | 148 | 276 | 110 | 413 | 758 | 845 | 718 | --- | 310 |
| 8 | 146 | 236 | 93 | 368 | 514 | 511 | 668 | --- | 260 |
| 9 | 143 | 165 | 64 | 357 | 347 | 334 | 612 | --- | 210 |
| 10 | 140 | 147 | 56 | 340 | 328 | 270 | 579 | 64 | 160 |
| 11 | 138 | 89 | 33 | 369 | --- | 340 | 550 | --- | 120 |
| 12 | 135 | 87 | 32 | 373 | 466 | 469 | 536 | --- | 96 |
| 13 | 133 | 190 | 68 | 365 | --- | 470 | 544 | --- | 85 |
| 14 | 131 | 75 | 27 | 359 | --- | 390 | 665 | --- | 180 |
| 15 | 129 | 192 | 67 | 351 | --- | 300 | 657 | --- | 230 |
| 16 | 127 | 96 | 33 | 387 | --- | 300 | 561 | --- | 150 |
| 17 | 126 | 54 | 18 | 451 | --- | 570 | 519 | --- | 130 |
| 18 | 124 | 47 | 16 | 787 | 3,170 | 8,990 | 492 | --- | 120 |
| 19 | 123 | 60 | 20 | 884 | 1,040 | 2,480 | 478 | 81 | 105 |
| 20 | 121 | --- | 16 | 2,020 | 5,210 | 32,300 | 453 | --- | 82 |
| 21 | 119 | 689 | 15 | 2,220 | 2,290 | 13,700 | 490 | --- | 110 |
| 22 | 118 | 3,630 | 14 | 2,200 | 1,540 | 9,150 | 763 | --- | 460 |
| 23 | 116 | 37 | 12 | 3,220 | 4,400 | 44,300 | 1,120 | --- | 1,400 |
| 24 | 115 | 64 | 20 | 5,130 | 4,580 | 63,400 | 935 | --- | 800 |
| 25 | 212 | 10,800 | 14,500 | 3,510 | 1,850 | 17,500 | 902 | --- | 680 |
| 26 | 361 | 37,800 | 39,600 | 2,720 | 1,400 | 10,300 | 959 | --- | 830 |
| 27 | 479 | 21,600 | 30,700 | 2,850 | 2,110 | 17,900 | 891 | 18 | 610 |
| 28 | 334 | 3,500 | 3,160 | 2,450 | 969 | 6,410 | 974 | --- | 800 |
| 29 | 294 | 3,590 | 2,850 | 1,990 | 661 | 3,550 | 1,450 | --- | 2,400 |
| 30 | 717 | 16,000 | 31,000 | 1,620 | 507 | 2,220 | 1,300 | --- | 1,700 |
| 31 | 704 | 3,600 | 6,840 | --- | --- | --- | 1,180 | --- | 1,200 |
| TOTAL | 6,398 | --- | 130,373 | 38,382 | --- | 244,077 | 25,166 | --- | 17,888 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,130 | --- | 1,000 | 5,820 | 6,170 | 97,000 | 807 | 144 | 314 |
| 2 | 1,060 | --- | 820 | 3,880 | 1,960 | 20,500 | 1,360 | 925 | 4,140 |
| 3 | 1,330 | --- | 1,500 | 2,710 | 996 | 7,290 | 5,180 | 9,760 | 156,000 |
| 4 | 1,400 | --- | 1,700 | 2,030 | 768 | 4,210 | 6,070 | 5,720 | 93,700 |
| 5 | 1,210 | --- | 1,100 | 1,730 | 620 | 2,900 | 4,570 | 2,630 | 32,500 |
| 6 | 1,040 | --- | 630 | 1,470 | 512 | 2,030 | 4,060 | 1,880 | 20,600 |
| 7 | 943 | --- | 460 | 1,310 | 500 | 1,770 | 3,400 | --- | 13,000 |
| 8 | 866 | --- | 330 | 1,240 | 465 | 1,560 | 2,790 | --- | 8,500 |
| 9 | 794 | 112 | 240 | 1,190 | 408 | 1,310 | 2,540 | --- | 6,400 |
| 10 | 757 | 764 | 210 | 1,180 | 371 | 1,180 | 2,690 | --- | 8,100 |
| 11 | 738 | --- | 190 | 1,240 | 469 | 1,570 | 2,750 | 755 | 8,600 |
| 12 | 1,010 | --- | 480 | 1,220 | 412 | 1,360 | 4,090 | 690 | 25,000 |
| 13 | 844 | --- | 280 | 1,670 | 1,290 | 5,820 | 4,180 | 613 | 27,000 |
| 14 | 768 | 160 | 210 | 1,860 | 907 | 4,550 | 3,740 | 501 | 22,000 |
| 15 | 697 | 104 | 160 | 1,800 | 742 | 3,610 | 2,940 | 409 | 12,000 |
| 16 | 668 | 214 | 130 | 1,810 | 570 | 2,790 | 2,350 | 354 | 6,900 |
| 17 | 648 | --- | 120 | 1,570 | 410 | 1,740 | 2,100 | 301 | 5,000 |
| 18 | 624 | --- | 110 | 1,390 | 294 | 1,100 | 1,780 | 268 | 3,400 |
| 19 | 584 | 7,140 | 86 | 1,220 | 252 | 830 | 1,540 | 541 | 2,250 |
| 20 | 564 | 3,000 | 110 | 1,100 | 240 | 713 | 1,440 | 471 | 1,830 |
| 21 | 550 | 1,560 | 68 | 1,020 | 291 | 801 | 1,310 | 399 | 1,410 |
| 22 | 534 | 42 | 61 | 991 | --- | 700 | 1,200 | 351 | 1,140 |
| 23 | 524 | 746 | 63 | 905 | 6,470 | 490 | 1,100 | 333 | 989 |
| 24 | 544 | 568 | 78 | 820 | 3,940 | 350 | 998 | 292 | 787 |
| 25 | 568 | 448 | 98 | 759 | 2,740 | 270 | 936 | 232 | 586 |
| 26 | 974 | --- | 580 | 717 | 1,560 | 210 | 888 | 209 | 501 |
| 27 | 1,240 | --- | 1,200 | 683 | 96 | 177 | 818 | 176 | 389 |
| 28 | 1,330 | 519 | 1,500 | 675 | 111 | 202 | 765 | 163 | 337 |
| 29 | 1,280 | 492 | 1,500 | --- | --- | --- | 727 | 360 | 300 |
| 30 | 1,370 | 1,750 | 1,900 | --- | --- | --- | 701 | 398 | 280 |
| 31 | 1,680 | 1,150 | 3,500 | --- | --- | --- | 696 | 335 | 280 |
| TOTAL | 28,269 | --- | 20,414 | 44,010 | --- | 167,033 | 70,516 | --- | 464,233 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 727 | 279 | 340 | 1,460 | 444 | 1,750 | 600 | 159 | 258 |
| 2 | 834 | 253 | 520 | 1,320 | 466 | 1,660 | 533 | 112 | 161 |
| 3 | 1,000 | 229 | 950 | 1,120 | 383 | 1,160 | 504 | 100 | 136 |
| 4 | 1,080 | 198 | 1,200 | 1,020 | 334 | 920 | 491 | 65 | 86 |
| 5 | 1,110 | 175 | 1,400 | 1,050 | 295 | 836 | 483 | 50 | 65 |
| 6 | 1,100 | 159 | 1,400 | 1,190 | 421 | 1,350 | 461 | 47 | 59 |
| 7 | 1,130 | 171 | 1,600 | 1,390 | 456 | 1,710 | 445 | 63 | 76 |
| 8 | 1,320 | 223 | 2,400 | 1,420 | 416 | 1,590 | 441 | 52 | 62 |
| 9 | 1,190 | 578 | 1,860 | 1,330 | 364 | 1,310 | 418 | 40 | 45 |
| 10 | 1,280 | 763 | 2,640 | 1,170 | 301 | 951 | 399 | 31 | 33 |
| 11 | 1,310 | 686 | 2,430 | 1,030 | 278 | 773 | 391 | 33 | 35 |
| 12 | 1,210 | 517 | 1,690 | 1,150 | 555 | 1,720 | 380 | 35 | 36 |
| 13 | 1,090 | 407 | 1,200 | 944 | 281 | 716 | 370 | 44 | 44 |
| 14 | 1,020 | 366 | 1,010 | 894 | 214 | 517 | 363 | 69 | 68 |
| 15 | 1,050 | 384 | 1,090 | 802 | 174 | 377 | 353 | 54 | 51 |
| 16 | 1,140 | 432 | 1,330 | 724 | 108 | 211 | 342 | 32 | 30 |
| 17 | 1,290 | 401 | 1,400 | 661 | 99 | 230 | 332 | 51 | 46 |
| 18 | 1,240 | 333 | 1,110 | 613 | 117 | 160 | 323 | 39 | 34 |
| 19 | 1,100 | 259 | 769 | 574 | 98 | 120 | 320 | 29 | 25 |
| 20 | 985 | 228 | 606 | 536 | 47 | 68 | 321 | --- | 23 |
| 21 | 938 | 244 | 618 | 509 | 40 | 55 | 344 | --- | 71 |
| 22 | 983 | 323 | 857 | 486 | 30 | 39 | 319 | --- | 31 |
| 23 | 1,080 | 378 | 1,100 | 468 | 28 | 35 | 304 | 17 | 14 |
| 24 | 1,160 | 365 | 1,140 | 460 | 25 | 31 | 293 | 17 | 13 |
| 25 | 1,140 | 295 | 908 | 453 | 23 | 28 | 287 | 30 | 23 |
| 26 | 1,120 | 358 | 1,080 | 444 | 24 | 29 | 283 | 47 | 36 |
| 27 | 1,220 | 441 | 1,450 | 430 | 21 | 24 | 281 | 97 | 74 |
| 28 | 1,460 | 800 | 3,150 | 423 | 21 | 24 | 277 | 166 | 124 |
| 29 | 1,580 | 682 | 2,910 | 405 | 20 | 22 | 273 | 147 | 108 |
| 30 | 1,560 | 579 | 2,440 | 698 | 822 | 1,990 | 269 | 116 | 84 |
| 31 | --- | --- | --- | 754 | 413 | 841 | --- | --- | --- |
| TOTAL | 34,447 | --- | 42,598 | 25,928 | --- | 21,247 | 11,200 | --- | 1,951 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 264 | 133 | 95 | 182 | 70 | 34 | 133 | 821 | 46 |
| 2 | 257 | 163 | 113 | 180 | 92 | 45 | 133 | 1,110 | 46 |
| 3 | 254 | 77 | 53 | 179 | 126 | 61 | 133 | 1,600 | 46 |
| 4 | 253 | 103 | 70 | 176 | 178 | 85 | 132 | 927 | 46 |
| 5 | 259 | 97 | 68 | 174 | 175 | 82 | 131 | 594 | 45 |
| 6 | 250 | 67 | 45 | 172 | 140 | 65 | 129 | 503 | 45 |
| 7 | 248 | 55 | 37 | 171 | 124 | 57 | 129 | 555 | 45 |
| 8 | 243 | 55 | 36 | 170 | 162 | 74 | 128 | 486 | 45 |
| 9 | 239 | 41 | 26 | 167 | 234 | 106 | 128 | --- | 45 |
| 10 | 238 | 40 | 26 | 165 | 223 | 99 | 127 | --- | 45 |
| 11 | 231 | 54 | 34 | 165 | 136 | 61 | 127 | --- | 45 |
| 12 | 226 | 150 | 92 | 163 | 174 | 77 | 125 | --- | 44 |
| 13 | 225 | 557 | 338 | 166 | 295 | 132 | 125 | --- | 44 |
| 14 | 221 | 401 | 239 | 168 | 216 | 98 | 131 | --- | 45 |
| 15 | 215 | 281 | 163 | 163 | 444 | 82 | 136 | --- | 47 |
| 16 | 211 | 177 | 101 | 159 | 457 | 74 | 129 | --- | 45 |
| 17 | 213 | 179 | 103 | 156 | 293 | 68 | 126 | --- | 44 |
| 18 | 242 | 1,020 | 666 | 154 | 285 | 66 | 123 | --- | 44 |
| 19 | 226 | 389 | 237 | 152 | 398 | 62 | 121 | --- | 43 |
| 20 | 213 | 92 | 53 | 150 | 483 | 60 | 120 | --- | 43 |
| 21 | 220 | 611 | 399 | 148 | 709 | 58 | 119 | --- | 43 |
| 22 | 216 | 527 | 307 | 147 | 746 | 56 | 119 | --- | 43 |
| 23 | 209 | 224 | 126 | 146 | 683 | 55 | 118 | --- | 43 |
| 24 | 210 | 558 | 316 | 145 | 676 | 54 | 118 | 935 | 43 |
| 25 | 202 | 357 | 195 | 142 | 606 | 50 | 118 | 2,360 | 43 |
| 26 | 198 | 203 | 190 | 140 | 128 | 48 | 118 | 1,350 | 43 |
| 27 | 194 | 97 | 150 | 140 | 707 | 48 | 116 | 380 | 42 |
| 28 | 191 | 146 | 110 | 139 | 937 | 47 | 115 | 328 | 42 |
| 29 | 186 | --- | 78 | 138 | 1,740 | 47 | 114 | 484 | 42 |
| 30 | 185 | 102 | 51 | 136 | --- | 47 | 114 | 257 | 42 |
| 31 | 185 | 62 | 31 | 135 | 1,410 | 47 | --- | --- | --- |
| TOTAL | 6,924 | --- | 4,548 | 4,888 | --- | 2,045 | 3,735 | --- | 1,324 |
| YEAR | 299,863 | | 1,117,731 | TONS | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 07... | 1350 | 9.0 | 212 | 10.0 | 106 | 61 | -- | -- | -- |
| 17... | 1450 | 9.5 | 195 | 10.0 | 364 | 192 | -- | -- | -- |
| 28... | 1110 | 6.0 | 188 | 10.0 | 144 | 73 | -- | -- | -- |
| NOV | | | | | | | | | |
| 02... | 1040 | 8.5 | 595 | 20.0 | 6,690 | 10,700 | -- | -- | -- |
| 03... | 1045 | 11.0 | 3,290 | 20.0 | 28,500 | 253,000 | -- | -- | -- |
| 03... | 1415 | 10.5 | 3,100 | 20.0 | 16,200 | 136,000 | -- | -- | -- |
| 03... | 1710 | 10.0 | 2,990 | 20.0 | 11,600 | 93,600 | -- | -- | -- |
| 03... | 2030 | 9.0 | 3,410 | 20.0 | 11,900 | 110,000 | -- | -- | -- |
| 04... | 1345 | -- | 2,180 | 10.0 | 6,060 | 35,700 | -- | -- | -- |
| 07... | 1245 | 6.5 | 1,760 | 20.0 | 1,600 | 7,600 | -- | -- | -- |
| 14... | 1205 | 6.0 | 2,750 | 20.0 | 2,620 | 19,500 | -- | -- | -- |
| 16... | 1210 | -- | 6,700 | 20.0 | 6,770 | 122,000 | 3 | 5 | 7 |
| 16... | 1435 | -- | 7,040 | 20.0 | 6,360 | 121,000 | -- | -- | -- |
| 17... | 1125 | 6.0 | 6,820 | 20.0 | 5,470 | 101,000 | -- | -- | -- |
| 18... | 1130 | 7.0 | 5,360 | 20.0 | 4,360 | 63,100 | 3 | 3 | 5 |
| 21... | 1410 | 6.5 | 2,750 | 20.0 | 1,300 | 9,650 | -- | -- | -- |
| 28... | 1330 | 6.0 | 1,670 | 20.0 | 672 | 3,030 | -- | -- | -- |
| DEC | | | | | | | | | |
| 07... | 1200 | 3.0 | 755 | 20.0 | 311 | 634 | -- | -- | -- |
| 20... | 1135 | -- | 810 | 20.0 | 285 | 623 | -- | -- | -- |
| 29... | 1245 | 0.5 | 745 | 20.0 | 423 | 851 | -- | -- | -- |
| 30... | 1145 | -- | 1,180 | 20.0 | 846 | 2,700 | -- | -- | -- |
| JAN | | | | | | | | | |
| 04... | 1110 | 4.0 | 3,060 | 20.0 | 2,240 | 18,500 | -- | -- | -- |
| 13... | 1225 | 3.0 | 1,130 | 20.0 | 254 | 775 | -- | -- | -- |
| 23... | 1700 | 3.0 | 1,940 | 20.0 | 4,420 | 23,200 | -- | -- | -- |
| 24... | 1400 | 4.0 | 2,800 | 20.0 | 3,260 | 24,600 | -- | -- | -- |
| 25... | 1105 | 5.0 | 3,380 | 20.0 | 2,700 | 24,600 | -- | -- | -- |
| 31... | 1130 | 3.0 | 1,240 | 10.0 | 392 | 1,310 | -- | -- | -- |
| FEB | | | | | | | | | |
| 13... | 1250 | 4.5 | 2,130 | 20.0 | 1,460 | 8,400 | -- | -- | -- |
| 27... | 1455 | 9.0 | 906 | 20.0 | 177 | 433 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 07... | -- | -- | 38 | 60 | 74 | 92 | 98 | 100 |
| 17... | -- | -- | 32 | 40 | 49 | 57 | 67 | 81 |
| 28... | -- | -- | 34 | 45 | 68 | 95 | 100 | -- |
| NOV | | | | | | | | |
| 02... | -- | -- | 41 | 73 | 94 | 99 | 100 | -- |
| 03... | -- | -- | 50 | 66 | 89 | 97 | 99 | 100 |
| 03... | -- | -- | 38 | 54 | 82 | 95 | 99 | 100 |
| 03... | -- | -- | 34 | 51 | 77 | 96 | 99 | 100 |
| 03... | -- | -- | 30 | -- | -- | -- | -- | -- |
| 04... | -- | -- | 27 | -- | -- | -- | -- | -- |
| 07... | -- | -- | 22 | 34 | 61 | 89 | 99 | 100 |
| 14... | -- | -- | 19 | 32 | 59 | 84 | 97 | 100 |
| 16... | 14 | 23 | 31 | 48 | 72 | 90 | 97 | 100 |
| 16... | -- | -- | 30 | 45 | 70 | 87 | 96 | 99 |
| 17... | -- | -- | 23 | -- | -- | -- | -- | -- |
| 18... | 10 | 15 | 20 | 32 | 55 | 82 | 96 | 99 |
| 21... | -- | -- | 15 | 24 | 41 | 69 | 92 | 100 |
| 28... | -- | -- | 22 | 29 | 49 | 77 | 93 | 98 |
| DEC | | | | | | | | |
| 07... | -- | -- | 27 | 29 | 36 | 68 | 87 | 100 |
| 20... | -- | -- | 16 | 19 | 28 | 53 | 77 | 89 |
| 29... | -- | -- | 5 | 8 | 11 | 22 | 64 | 91 |
| 30... | -- | -- | 21 | 28 | 44 | 71 | 92 | 100 |
| JAN | | | | | | | | |
| 04... | -- | -- | 17 | 24 | 43 | 73 | 92 | 98 |
| 13... | -- | -- | 32 | 39 | 54 | 79 | 96 | 100 |
| 23... | -- | -- | 60 | 66 | 78 | 90 | 97 | 99 |
| 24... | -- | -- | 43 | 51 | 66 | 83 | 95 | 99 |
| 25... | -- | -- | 29 | 40 | 61 | 86 | 97 | 100 |
| 31... | -- | -- | 24 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | |
| 13... | -- | -- | 16 | 22 | 38 | 68 | 89 | 98 |
| 27... | -- | -- | 31 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | |
| 12... | 1345 | 6.0 | 1,590 | 20.0 | 1,020 | 4,380 | 27 | 38 | 59 | 84 | 96 | 100 |
| 22... | 1300 | 7.0 | 2,300 | 20.0 | 588 | 3,650 | 24 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 10... | 1155 | 4.5 | 1,050 | 20.0 | 246 | 697 | 30 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 02... | 1550 | 8.0 | 1,350 | 20.0 | 580 | 2,110 | 32 | 41 | 58 | 84 | 97 | 100 |
| 08... | 1405 | 7.0 | 1,120 | 20.0 | 335 | 1,010 | 12 | 16 | 22 | 35 | 68 | 95 |
| 09... | 1405 | 8.0 | 1,140 | 20.0 | 313 | 963 | 41 | -- | -- | -- | -- | -- |
| 10... | 1320 | -- | 1,080 | 20.0 | 216 | 630 | 30 | -- | -- | -- | -- | -- |
| 11... | 1335 | 8.0 | 1,550 | 20.0 | 1,140 | 4,770 | 30 | -- | -- | -- | -- | -- |
| 14... | 1350 | 8.0 | 1,600 | 20.0 | 460 | 1,990 | 27 | 35 | 51 | 78 | 93 | 97 |
| 17... | 1305 | 8.0 | 1,150 | 20.0 | 277 | 860 | -- | -- | -- | -- | -- | -- |
| 31... | 1315 | 10.5 | 1,470 | 20.0 | 298 | 1,180 | 31 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 19... | 1405 | 17.5 | 724 | 20.0 | 94 | 184 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 13... | 0930 | 15.0 | 353 | 10.0 | 24 | 23 | -- | -- | -- | -- | -- | -- |
| 24... | 1240 | 14.0 | 281 | 10.0 | 57 | 43 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 06... | 1340 | 15.0 | 230 | 10.0 | 48 | 30 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 06... | 0855 | 9.0 | 262 | 10.0 | 590 | 417 | 75 | 89 | 97 | 100 | -- | -- |
| 25... | 1045 | 8.0 | 165 | 10.0 | 31 | 14 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 10... | 1250 | 10.0 | 530 | 20.0 | 6,640 | 9,500 | 14 | 17 | 21 | 39 | 60 | -- |
| 26... | 1250 | 6.5 | 330 | 10.0 | 266 | 237 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 02... | 1200 | 5.0 | 2,730 | 20.0 | 9,160 | 67,500 | 7 | 12 | 17 | 26 | 39 | -- |
| 14... | 1345 | 6.0 | 2,290 | 20.0 | 816 | 5,050 | -- | -- | -- | -- | -- | -- |
| 20... | 1120 | 5.0 | 1,240 | 20.0 | 330 | 1,100 | -- | -- | -- | -- | -- | -- |
| 27... | 1145 | 2.0 | 973 | 20.0 | 228 | 599 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 04... | 1310 | 1.0 | 440 | 20.0 | 20 | 24 | -- | -- | -- | -- | -- | -- |
| 21... | 1205 | 2.0 | 345 | 10.0 | 324 | 302 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | 1130 | 2.0 | 267 | 10.0 | 8 | 5.8 | -- | -- | -- | -- | -- | -- |
| 13... | 1350 | 3.0 | 315 | 10.0 | 21 | 18 | -- | -- | -- | -- | -- | -- |
| 28... | 1245 | 2.0 | 433 | 10.0 | 40 | 47 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 18... | 1400 | 7.0 | 684 | 20.0 | 140 | 259 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 01... | 1130 | 6.0 | 1,110 | 20.0 | 323 | 968 | -- | -- | -- | -- | -- | -- |
| 15... | 1120 | 7.0 | 2,630 | 20.0 | 530 | 3,760 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 01... | 1105 | 7.0 | 1,280 | 20.0 | 215 | 743 | -- | -- | -- | -- | -- | -- |
| 16... | 1220 | 10.0 | 1,200 | 20.0 | 352 | 1,140 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 04... | 1140 | 10.0 | 1,040 | 20.0 | 60 | 168 | -- | -- | -- | -- | -- | -- |
| 07... | 1405 | 11.5 | 3,560 | 20.0 | 3,290 | 31,600 | -- | -- | -- | -- | -- | 39 |
| 10... | 1210 | 9.0 | 1,450 | 20.0 | 357 | 1,400 | -- | -- | -- | -- | -- | -- |
| 25... | 1200 | 11.0 | 546 | 20.0 | 51 | 75 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 08... | 1310 | 16.0 | 305 | 10.0 | 82 | 68 | -- | -- | -- | -- | -- | -- |
| 22... | 1040 | 15.0 | 220 | 10.0 | 216 | 128 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 06... | 1000 | 11.0 | 185 | 10.0 | 218 | 109 | -- | -- | -- | -- | -- | -- |
| 26... | 1240 | 14.5 | 152 | 10.0 | 477 | 196 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 10... | 78 | -- | 91 | -- | 98 | -- | 100 | -- | -- | -- | -- |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 02... | 53 | -- | 70 | -- | 86 | -- | 95 | -- | 99 | -- | 100 |
| 14... | 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 27... | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 04... | 43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 18... | 35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 01... | 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 47 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 04... | 52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 37 | 53 | -- | 73 | -- | 89 | -- | 96 | -- | 100 | -- |
| 10... | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 08... | 68 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 06... | 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| SEP | | | | | | | |
| 10... | 1340 | 11.0 | 220 | 20.0 | 2,940 | 1,750 | 53 |
| 25... | 0955 | 8.5 | 172 | 20.0 | 111 | 52 | 39 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | 1315 | 10.0 | 169 | 20.0 | 98 | 45 | -- | -- | -- |
| 21... | 1345 | 8.0 | 292 | 20.0 | 483 | 381 | -- | -- | -- |
| 25... | 1240 | 11.0 | 1,390 | 20.0 | 2,030 | 7,620 | -- | -- | -- |
| 31... | 1350 | 5.5 | 928 | 20.0 | 348 | 872 | -- | -- | -- |
| NOV | | | | | | | | | |
| 07... | 1305 | 7.0 | 1,550 | 20.0 | 896 | 3,750 | -- | -- | -- |
| 26... | 1405 | 3.0 | 517 | 20.0 | 39 | 54 | -- | -- | -- |
| DEC | | | | | | | | | |
| 10... | 1350 | 2.0 | 575 | 20.0 | 64 | 99 | -- | -- | -- |
| 27... | 1530 | 1.0 | 452 | 20.0 | 18 | 22 | -- | -- | -- |
| JAN | | | | | | | | | |
| 10... | 1140 | 4.0 | 1,060 | 20.0 | 456 | 1,310 | -- | -- | -- |
| 10... | 1355 | 4.0 | 1,050 | 20.0 | 244 | 692 | -- | -- | -- |
| 14... | 1450 | 4.5 | 1,070 | 20.0 | 155 | 448 | -- | -- | -- |
| 19... | 1115 | 4.5 | 6,130 | 20.0 | 5,960 | 98,600 | 4 | 5 | 10 |
| 19... | 1330 | 5.0 | 5,900 | 20.0 | 5,030 | 80,100 | -- | -- | -- |
| 19... | 1545 | 4.5 | 5,600 | 20.0 | 4,700 | 71,100 | 4 | 6 | 10 |
| 21... | 1240 | 4.5 | 2,580 | 20.0 | 1,480 | 10,300 | -- | -- | -- |
| 21... | 1500 | 5.0 | 2,670 | 20.0 | 1,420 | 10,300 | -- | -- | -- |
| 28... | 1355 | 6.0 | 1,070 | 20.0 | 434 | 1,250 | -- | -- | -- |
| FEB | | | | | | | | | |
| 23... | 1300 | 3.5 | 4,720 | 20.0 | 11,600 | 148,000 | 5 | 7 | 12 |
| 23... | 1435 | 3.5 | 5,020 | 20.0 | 9,320 | 126,000 | -- | -- | -- |
| 23... | 1550 | 3.5 | 5,300 | 20.0 | 8,340 | 119,000 | -- | -- | -- |
| 23... | 1815 | 3.5 | 6,890 | 20.0 | 8,420 | 157,000 | 3 | 5 | 10 |
| 24... | 0835 | 4.5 | 7,280 | 20.0 | 3,920 | 77,100 | 6 | 9 | 12 |
| 24... | 1150 | 6.0 | 6,750 | 20.0 | 3,880 | 70,700 | -- | -- | -- |
| 25... | 1240 | 6.5 | 5,810 | 20.0 | 2,650 | 41,600 | -- | -- | -- |
| MAR | | | | | | | | | |
| 11... | 1345 | 6.5 | 2,010 | 20.0 | 584 | 3,170 | -- | -- | -- |
| 25... | 1420 | 6.5 | 1,320 | 20.0 | 736 | 2,620 | -- | -- | -- |
| APR | | | | | | | | | |
| 28... | 1545 | 7.0 | 748 | 20.0 | 163 | 329 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | -- | -- | -- | 31 | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | 45 | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | 22 | -- | -- | -- | -- | -- |
| 31... | -- | -- | -- | 36 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | |
| 07... | -- | -- | 22 | 23 | 35 | 65 | 87 | 100 | -- |
| 26... | -- | -- | -- | 49 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | |
| 10... | -- | -- | -- | 41 | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | 42 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | |
| 10... | -- | -- | -- | 27 | -- | -- | -- | -- | -- |
| 10... | -- | -- | -- | 28 | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | 33 | -- | -- | -- | -- | -- |
| 19... | 16 | 23 | 33 | 29 | 50 | 77 | 93 | 99 | 100 |
| 19... | -- | -- | 31 | 28 | 48 | 75 | 92 | 99 | 100 |
| 19... | 16 | 23 | 32 | 29 | 49 | 77 | 96 | 100 | -- |
| 21... | -- | -- | 29 | 30 | 41 | 65 | 91 | 100 | -- |
| 21... | -- | -- | -- | 31 | -- | -- | -- | -- | -- |
| 28... | -- | -- | -- | 36 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | |
| 23... | 21 | 32 | 46 | 41 | 62 | 83 | 95 | 100 | -- |
| 23... | -- | -- | 38 | 37 | 53 | 76 | 90 | 97 | 100 |
| 23... | -- | -- | 36 | 35 | 52 | 77 | 92 | 100 | -- |
| 23... | 17 | 27 | 37 | 36 | 55 | 77 | 92 | 99 | 100 |
| 24... | 15 | 22 | 31 | 28 | 46 | 72 | 90 | 99 | 100 |
| 24... | -- | -- | 28 | 23 | 42 | 70 | 92 | 99 | 100 |
| 25... | -- | -- | -- | 24 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | |
| 11... | -- | -- | -- | 51 | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | 33 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | |
| 28... | -- | -- | -- | 28 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPER-ATURE WATER (DEG C) | DIS-CHARGE, INST. CUBIC FEET PER SECOND | SAM-PLING METHOD, CODES | SEDI-MENT, SUS-PENDED (MG/L) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 02... | 1435 | 8.0 | 731 | 20.0 | 150 | 296 | 34 |
| 13... | 1300 | 8.0 | 903 | 20.0 | 310 | 756 | 44 |
| JUN | | | | | | | |
| 05... | 1630 | 16.0 | 456 | 20.0 | 22 | 27 | 44 |
| 24... | 1440 | 18.0 | 267 | 20.0 | 42 | 30 | 90 |
| JUL | | | | | | | |
| 10... | 1445 | 12.5 | 236 | 20.0 | 140 | 89 | -- |
| 10... | 1630 | 12.5 | 234 | 20.0 | 167 | 106 | -- |
| AUG | | | | | | | |
| 15... | 1355 | 17.5 | 140 | 20.0 | 236 | 89 | -- |
| 29... | 1155 | 12.5 | 128 | 20.0 | 628 | 217 | -- |
| 2.... | 1410 | 13.0 | 126 | 20.0 | 570 | 194 | -- |
| SEP | | | | | | | |
| 24... | 1235 | 11.0 | 195 | 20.0 | 1,000 | 526 | 60 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | 1245 | 11.0 | 171 | 20.0 | 170 | 78 | -- | -- | -- |
| 01... | 1315 | 11.0 | 171 | 10.0 | 191 | 88 | -- | -- | -- |
| 23... | 1545 | 10.5 | 118 | 10.0 | 36 | 11 | -- | -- | -- |
| 27... | 0825 | 10.0 | 564 | 20.0 | 19,800 | 30,200 | 9 | 10 | 11 |
| 27... | 0935 | 10.0 | 517 | 20.0 | 12,000 | 16,800 | 7 | 8 | 9 |
| 27... | 1045 | 10.0 | 494 | 20.0 | 8,780 | 11,700 | 5 | 6 | 7 |
| 27... | 1355 | 11.0 | 449 | 20.0 | 5,900 | 7,150 | -- | -- | -- |
| 28... | 0910 | 10.0 | 338 | 20.0 | 3,260 | 2,980 | -- | -- | -- |
| 31... | 1210 | 9.5 | 694 | 20.0 | 3,520 | 6,600 | -- | -- | -- |
| NOV | | | | | | | | | |
| 12... | 1510 | 6.5 | 365 | 20.0 | 443 | 437 | -- | -- | -- |
| 12... | 1540 | 6.5 | 365 | 10.0 | 456 | 449 | -- | -- | -- |
| 18... | 1110 | 7.5 | 1,030 | 20.0 | 10,200 | 28,400 | 8 | 9 | 12 |
| 18... | 1315 | 7.5 | 1,270 | 20.0 | 11,000 | 37,700 | 9 | 10 | 14 |
| 18... | 1455 | 7.0 | 1,070 | 20.0 | 6,680 | 19,300 | 10 | 10 | 18 |
| 20... | 0925 | 7.5 | 2,540 | 20.0 | 21,300 | 146,000 | 13 | 13 | 23 |
| 20... | 1110 | 7.5 | 2,300 | 20.0 | 8,100 | 50,300 | 8 | 9 | 13 |
| 20... | 1410 | 7.0 | 2,250 | 20.0 | 4,620 | 28,100 | 2 | 4 | 7 |
| 20... | 1610 | 7.0 | 2,350 | 20.0 | 3,640 | 23,100 | 3 | 4 | 8 |
| 21... | 1315 | 5.5 | 1,960 | 20.0 | 1,650 | 8,730 | -- | -- | -- |
| 24... | 1040 | 6.5 | 5,980 | 20.0 | 5,440 | 87,800 | 2 | 3 | 6 |
| 24... | 1315 | 6.5 | 5,340 | 20.0 | 4,170 | 60,100 | 2 | 3 | 6 |
| 24... | 1550 | 6.5 | 5,040 | 20.0 | 3,360 | 45,700 | 2 | 3 | 6 |
| 25... | 1345 | 6.0 | 3,340 | 20.0 | 1,580 | 14,200 | -- | -- | -- |
| DEC | | | | | | | | | |
| 05... | 1420 | 3.5 | 867 | 20.0 | 191 | 447 | -- | -- | -- |
| 19... | 1025 | 3.0 | 478 | 20.0 | 95 | 123 | -- | -- | -- |
| JAN | | | | | | | | | |
| 09... | 1440 | 2.5 | 783 | 20.0 | 101 | 214 | -- | -- | -- |
| 22... | 1330 | 3.5 | 528 | 20.0 | 42 | 60 | -- | -- | -- |
| FEB | | | | | | | | | |
| 01... | 1232 | 6.5 | 6,060 | 20.0 | 6,680 | 109,000 | 7 | 8 | 10 |
| 01... | 1233 | 6.5 | 6,060 | 20.0 | 7,040 | 115,000 | -- | -- | -- |
| 01... | 1455 | 5.5 | 5,910 | 20.0 | 5,260 | 83,900 | -- | -- | -- |
| 02... | 1030 | 4.0 | 3,860 | 20.0 | 2,020 | 21,100 | -- | -- | -- |
| 03... | 1510 | 5.0 | 2,530 | 20.0 | 928 | 6,340 | -- | -- | -- |
| 27... | 1430 | 5.0 | 676 | 20.0 | 127 | 232 | -- | -- | -- |
| MAR | | | | | | | | | |
| 04... | 1005 | 5.0 | 6,090 | 20.0 | 5,680 | 93,400 | 5 | 6 | 8 |
| 04... | 1305 | 5.0 | 5,810 | 20.0 | 4,690 | 73,600 | -- | -- | -- |
| 19... | 1530 | 6.5 | 1,520 | 20.0 | 529 | 2,170 | -- | -- | -- |
| APR | | | | | | | | | |
| 09... | 1155 | 6.5 | 1,190 | 20.0 | 580 | 1,860 | -- | -- | -- |
| 21... | 1450 | 8.0 | 912 | 20.0 | 226 | 557 | -- | -- | -- |
| MAY | | | | | | | | | |
| 20... | 1340 | -- | 538 | 10.0 | 39 | 57 | -- | -- | -- |
| JUN | | | | | | | | | |
| 23... | 1405 | 14.0 | 298 | 10.0 | 20 | 16 | -- | -- | -- |
| JUL | | | | | | | | | |
| 30... | 1405 | 15.0 | 186 | 10.0 | 122 | 61 | -- | -- | -- |
| AUG | | | | | | | | | |
| 26... | 1320 | -- | 142 | 10.0 | 128 | 49 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | -- | -- | -- | 31 | -- | -- | -- | -- | -- |
| 01... | -- | -- | -- | 22 | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | 36 | -- | -- | -- | -- | -- |
| 27... | 23 | 36 | 56 | -- | 87 | 99 | 100 | -- | -- |
| 27... | 17 | 27 | 43 | -- | 78 | 99 | 100 | -- | -- |
| 27... | 13 | 21 | 36 | -- | 74 | 97 | 99 | 100 | -- |
| 27... | -- | -- | 36 | -- | 77 | 98 | 100 | -- | -- |
| 28... | -- | -- | 25 | -- | 63 | 96 | 99 | 100 | -- |
| 31... | -- | -- | 21 | -- | 47 | 86 | 98 | 100 | -- |
| NOV | | | | | | | | | |
| 12... | -- | -- | -- | 22 | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | 15 | -- | -- | -- | -- | -- |
| 18... | 22 | 34 | 51 | -- | 77 | 95 | 99 | 100 | -- |
| 18... | 23 | 37 | 53 | -- | 78 | 95 | 100 | -- | -- |
| 18... | 30 | 43 | 56 | -- | 80 | 96 | 100 | -- | -- |
| 20... | 34 | 50 | 69 | -- | 86 | 96 | 99 | 99 | 100 |
| 20... | 24 | 35 | 50 | -- | 70 | 89 | 97 | 100 | -- |
| 20... | 13 | 19 | 28 | -- | 45 | 76 | 94 | 100 | -- |
| 20... | 13 | -- | 30 | -- | 49 | 79 | 94 | 99 | 100 |
| 21... | -- | -- | 24 | -- | 39 | 67 | 94 | 100 | -- |
| 24... | 11 | 17 | 26 | -- | 44 | 74 | 93 | 100 | -- |
| 24... | 10 | 14 | 22 | -- | 38 | 69 | 92 | 99 | 100 |
| 24... | 9 | 14 | 21 | -- | 36 | 66 | 89 | 99 | 100 |
| 25... | -- | -- | 22 | -- | 35 | 60 | 83 | 99 | 100 |
| DEC | | | | | | | | | |
| 05... | -- | -- | -- | 40 | -- | -- | -- | -- | -- |
| 19... | -- | -- | -- | 47 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | |
| 09... | -- | -- | -- | 42 | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | 44 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | |
| 01... | 18 | 27 | -- | 37 | 52 | 75 | 91 | 98 | 100 |
| 01... | -- | -- | -- | 36 | 50 | 71 | 87 | 96 | 99 |
| 01... | -- | -- | -- | 33 | 47 | 70 | 89 | 97 | 99 |
| 02... | -- | -- | -- | 39 | 63 | 89 | 99 | 100 | -- |
| 03... | -- | -- | -- | 28 | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | 49 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | |
| 04... | 16 | 24 | -- | 34 | 48 | 72 | 91 | 97 | 99 |
| 04... | -- | -- | -- | 33 | 49 | 72 | 92 | 98 | 100 |
| 19... | -- | -- | -- | 30 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | |
| 09... | -- | -- | -- | 28 | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | 24 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | | | | | | | | | | | |
| 17... | 1452 | 0 | 0 | 2 | 13 | 29 | 48 | 65 | 83 | 98 | 100 |
| 17... | 1454 | 0 | 0 | 0 | 2 | 14 | 35 | 66 | 91 | 100 | -- |
| 28... | 1127 | 0 | 0 | 1 | 25 | 44 | 70 | 87 | 96 | 100 | -- |
| 28... | 1130 | 0 | 0 | 1 | 7 | 30 | 53 | 73 | 90 | 99 | 100 |
| DEC | | | | | | | | | | | |
| 07... | 1230 | 0 | 0 | 0 | 8 | 42 | 71 | 90 | 97 | 100 | -- |
| JAN | | | | | | | | | | | |
| 13... | 1234 | 0 | 0 | 1 | 9 | 45 | 71 | 81 | 88 | 93 | 100 |
| 13... | 1237 | 1 | 1 | 2 | 4 | 10 | 20 | 27 | 43 | 66 | 100 |
| 24... | 1430 | 0 | 0 | 1 | 9 | 38 | 69 | 87 | 97 | 99 | 100 |
| MAR | | | | | | | | | | | |
| 12... | 1430 | 0 | 0 | 2 | 18 | 18 | 58 | 90 | 94 | 96 | 100 |
| 12... | 1432 | 0 | 0 | 0 | 3 | 14 | 51 | 76 | 83 | 83 | 100 |
| 12... | 1434 | 0 | 0 | 1 | 3 | 5 | 16 | 46 | 77 | 93 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | | |
| 26... | 1252 | 0 | 0 | 5 | 34 | 63 | 78 | 96 | 97 | 100 | -- |
| 26... | 1254 | 0 | 0 | 3 | 14 | 26 | 36 | 50 | 68 | 91 | 100 |
| 26... | 1255 | 0 | 0 | 2 | 5 | 22 | 46 | 75 | 95 | 99 | 100 |
| SEP | | | | | | | | | | | |
| 10... | 1353 | 0 | 1 | 6 | 9 | 14 | 32 | 69 | 89 | 99 | 100 |
| 10... | 1354 | 0 | 1 | 7 | 26 | 61 | 84 | 95 | 99 | 100 | -- |
| 10... | 1356 | 0 | 1 | 9 | 39 | 79 | 93 | 97 | 99 | 100 | -- |
| 25... | 1007 | 0 | 0 | 1 | 4 | 21 | 46 | 70 | 90 | 99 | 100 |
| 25... | 1009 | 0 | 0 | 3 | 15 | 33 | 50 | 64 | 78 | 94 | 100 |
| 25... | 1011 | 0 | 0 | 7 | 50 | 78 | 91 | 96 | 99 | 100 | -- |
| 25... | 1012 | 0 | 0 | 6 | 31 | 49 | 57 | 60 | 62 | 68 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 01... | 1335 | 0 | 0 | 0 | 3 | 15 | 36 | 65 | 88 | 98 | 100 | -- |
| 01... | 1337 | 0 | 0 | 1 | 13 | 25 | 37 | 51 | 72 | 94 | 100 | -- |
| 31... | 1407 | 0 | 0 | 0 | 1 | 1 | 2 | 14 | 48 | 86 | 100 | -- |
| 31... | 1410 | 0 | 0 | 0 | 1 | 2 | 9 | 23 | 47 | 74 | 100 | -- |
| 31... | 1415 | 0 | 0 | 0 | 4 | 15 | 33 | 52 | 74 | 86 | 100 | -- |
| 31... | 1421 | 0 | 0 | 1 | 8 | 41 | 72 | 85 | 96 | 98 | 100 | -- |
| NOV | | | | | | | | | | | | |
| 07... | 1325 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 07... | 1328 | 0 | 0 | 0 | 1 | 2 | 7 | 22 | 50 | 77 | 100 | -- |
| 07... | 1334 | 0 | 0 | 1 | 3 | 10 | 24 | 39 | 53 | 70 | 100 | -- |
| 07... | 1340 | 0 | 0 | 1 | 10 | 45 | 77 | 85 | 89 | 92 | 100 | -- |
| DEC | | | | | | | | | | | | |
| 10... | 1417 | 0 | 0 | 0 | 1 | 2 | 4 | 12 | 30 | 48 | 60 | 100 |
| 10... | 1419 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 62 | 100 | -- | -- |
| 10... | 1423 | 0 | 0 | 0 | 1 | 5 | 10 | 17 | 38 | 71 | 100 | -- |
| 10... | 1427 | 0 | 0 | 0 | 4 | 28 | 67 | 88 | 96 | 100 | -- | -- |
| JAN | | | | | | | | | | | | |
| 10... | 1432 | 0 | 0 | 1 | 6 | 32 | 52 | 63 | 73 | 82 | 100 | -- |
| 10... | 1437 | 0 | 0 | 1 | 9 | 30 | 54 | 71 | 86 | 94 | 100 | -- |
| 21... | 1524 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 100 | -- | -- |
| 21... | 1532 | 0 | 0 | 0 | 2 | 8 | 23 | 41 | 50 | 56 | 78 | 100 |
| 21... | 1537 | 0 | 0 | 1 | 9 | 43 | 74 | 93 | 99 | 100 | -- | -- |
| FEB | | | | | | | | | | | | |
| 25... | 1605 | 0 | 0 | 0 | 1 | 4 | 8 | 13 | 16 | 21 | 28 | 100 |
| MAR | | | | | | | | | | | | |
| 11... | 1356 | 0 | 0 | 0 | 7 | 41 | 67 | 81 | 92 | 97 | 100 | -- |
| 11... | 1359 | 0 | 0 | 0 | 1 | 3 | 18 | 49 | 80 | 98 | 100 | -- |
| 25... | 1434 | 0 | 0 | 0 | 5 | 35 | 74 | 92 | 99 | 100 | -- | -- |
| 25... | 1436 | 0 | 0 | 0 | 2 | 5 | 20 | 51 | 78 | 92 | 100 | -- |
| 25... | 1440 | 0 | 0 | 0 | 1 | 4 | 34 | 80 | 99 | 100 | -- | -- |
| MAY | | | | | | | | | | | | |
| 13... | 1311 | 0 | 0 | 1 | 13 | 42 | 66 | 79 | 90 | 98 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | | |
| 24... | 1249 | 0 | 1 | 11 | 35 | 58 | 82 | 95 | 100 | -- | -- |
| 24... | 1250 | 0 | 2 | 11 | 30 | 42 | 49 | 57 | 78 | 99 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 01... | 1341 | 0 | 1 | 21 | 65 | 83 | 93 | 97 | 100 | -- | -- |
| 01... | 1343 | 0 | 1 | 21 | 84 | 97 | 99 | 100 | -- | -- | -- |
| 01... | 1345 | 0 | 0 | 7 | 23 | 34 | 41 | 49 | 67 | 94 | 100 |
| 23... | 1611 | 0 | 0 | 8 | 47 | 65 | 78 | 89 | 98 | 100 | -- |
| 23... | 1612 | 0 | 0 | 2 | 35 | 72 | 84 | 91 | 97 | 100 | -- |
| 23... | 1613 | 0 | 0 | 4 | 17 | 34 | 55 | 71 | 90 | 99 | 100 |
| 23... | 1614 | 0 | 1 | 11 | 34 | 63 | 92 | 99 | 100 | -- | -- |
| 27... | 1016 | 0 | 3 | 38 | 92 | 99 | 100 | -- | -- | -- | -- |
| 27... | 1019 | 0 | 6 | 60 | 95 | 99 | 100 | -- | -- | -- | -- |
| 27... | 1021 | 0 | 4 | 38 | 84 | 96 | 99 | 100 | -- | -- | -- |
| 28... | 1030 | 0 | 2 | 24 | 88 | 99 | 100 | -- | -- | -- | -- |
| 28... | 1035 | 0 | 2 | 33 | 82 | 94 | 98 | 100 | -- | -- | -- |
| 28... | 1040 | 1 | 6 | 48 | 86 | 94 | 98 | 100 | -- | -- | -- |
| 31... | 1232 | 0 | 0 | 3 | 6 | 10 | 15 | 23 | 50 | 100 | -- |
| 31... | 1233 | 0 | 1 | 5 | 26 | 75 | 96 | 100 | -- | -- | -- |
| 31... | 1236 | 0 | 1 | 15 | 74 | 96 | 99 | 100 | -- | -- | -- |
| 31... | 1239 | 0 | 1 | 10 | 67 | 94 | 98 | 100 | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 12... | 1612 | 0 | 1 | 4 | 20 | 47 | 48 | 50 | 55 | 64 | 100 |
| 12... | 1614 | 0 | 0 | 2 | 13 | 28 | 40 | 49 | 60 | 100 | -- |
| 12... | 1616 | 0 | 1 | 12 | 47 | 80 | 93 | 98 | 100 | -- | -- |
| 12... | 1618 | 0 | 0 | 3 | 26 | 61 | 85 | 94 | 98 | 100 | -- |
| 18... | 1336 | 1 | 5 | 10 | 12 | 14 | 16 | 18 | 25 | 25 | 100 |
| 18... | 1340 | 0 | 1 | 5 | 19 | 45 | 73 | 90 | 97 | 100 | -- |
| 18... | 1342 | 0 | 3 | 19 | 67 | 95 | 100 | -- | -- | -- | -- |
| 20... | 1156 | 0 | 0 | 2 | 9 | 40 | 74 | 89 | 97 | 100 | -- |
| 20... | 1200 | 0 | 1 | 10 | 63 | 98 | 100 | -- | -- | -- | -- |
| 21... | 1402 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 10 | 10 | 100 |
| 21... | 1408 | 0 | 0 | 0 | 2 | 3 | 8 | 18 | 34 | 63 | 100 |
| 21... | 1412 | 0 | 0 | 0 | 3 | 18 | 63 | 86 | 95 | 98 | 100 |
| 21... | 1415 | 0 | 0 | 1 | 5 | 11 | 20 | 33 | 52 | 72 | 100 |
| 24... | 1354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 100 |
| 24... | 1358 | 0 | 0 | 1 | 5 | 19 | 40 | 52 | 58 | 66 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | |
| 05... | 1446 | 0 | 0 | 0 | 4 | 12 | 19 | 28 | 50 | 78 | 100 | -- |
| 05... | 1449 | 0 | 0 | 0 | 6 | 11 | 16 | 27 | 42 | 100 | -- | -- |
| 05... | 1459 | 0 | 0 | 0 | 6 | 36 | 80 | 97 | 99 | 100 | -- | -- |
| FEB | | | | | | | | | | | | |
| 02... | 1100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 02... | 1107 | 0 | 0 | 0 | 1 | 2 | 3 | 7 | 17 | 44 | 100 | -- |
| 02... | 1112 | 0 | 0 | 1 | 10 | 37 | 60 | 70 | 75 | 84 | 100 | -- |
| MAR | | | | | | | | | | | | |
| 19... | 1607 | 0 | 0 | 0 | 0 | 0 | 3 | 17 | 50 | 91 | 100 | -- |
| 19... | 1615 | 0 | 0 | 1 | 9 | 34 | 55 | 66 | 72 | 78 | 100 | -- |
| APR | | | | | | | | | | | | |
| 09... | 1230 | 0 | 0 | 0 | 0 | 1 | 4 | 27 | 64 | 86 | 100 | -- |
| 09... | 1235 | 1 | 1 | 3 | 15 | 30 | 49 | 74 | 89 | 100 | -- | -- |
| 09... | 1240 | 0 | 0 | 0 | 2 | 4 | 9 | 19 | 42 | 76 | 100 | -- |
| 09... | 1245 | 0 | 0 | 1 | 9 | 26 | 41 | 55 | 74 | 89 | 100 | -- |
| 09... | 1250 | 0 | 0 | 0 | 8 | 49 | 92 | 99 | 100 | -- | -- | -- |

## 14216900 PINE CREEK AT MOUTH NEAR COUGAR, WA

**LOCATION.**--Lat 46°04′24″, long 122°00′57″, in NW ¼ SW ¼, T.7 N., R.6 E., Skamania County, Hydrologic Unit 17080002, at U.S. Forest Service Road 125 bridge, approximately 13 mi. east of Cougar.

**DRAINAGE AREA.**--26.0 $mi^2$

**PERIOD OF SEDIMENT DATA.**--March 1980 to October 1984.

**GAGE.**--Water-stage recorder. Altitude of gage is 1,040 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Nov. 7, 1980 | 1730 | 108,000 |
| 1982 | Oct. 6, 1981 | 1125 | 69,200 |
| 1983 | Dec. 3, 1982 | 1640 | 24,400 |
| 1984 | Nov. 3, 1983 | 1145 | 37,800 |

14216900 PINE CREEK AT MOUTH NEAR COUGAR, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 130 | --- | 4.5 | 201 | --- | 40 | 238 | --- | 15 |
| 2 | 132 | --- | 6.0 | 460 | --- | 15,000 | 234 | --- | 15 |
| 3 | 136 | --- | 8.0 | 700 | 30,300 | 57,300 | 219 | --- | 15 |
| 4 | 139 | --- | 9.0 | 540 | --- | 25,000 | 202 | --- | 10 |
| 5 | 139 | --- | 15 | 440 | --- | 8,000 | 202 | --- | 10 |
| 6 | 138 | --- | 15 | 475 | --- | 10,000 | 188 | --- | 10 |
| 7 | 138 | 40 | 15 | 430 | --- | 4,500 | 185 | --- | 10 |
| 8 | 138 | --- | 15 | 385 | --- | 1,500 | 202 | --- | 15 |
| 9 | 137 | --- | 15 | 350 | --- | 500 | 219 | 32 | 19 |
| 10 | 137 | --- | 10 | 420 | --- | 1,000 | 356 | --- | 100 |
| 11 | 136 | --- | 10 | 500 | --- | 2,000 | 361 | --- | 100 |
| 12 | 136 | 30 | 11 | 525 | --- | 2,500 | 332 | --- | 70 |
| 13 | 133 | --- | 10 | 550 | --- | 3,500 | 371 | --- | 150 |
| 14 | 132 | --- | 10 | 575 | --- | 4,500 | 382 | --- | 200 |
| 15 | 128 | --- | 10 | 590 | 3,850 | 6,130 | 346 | --- | 90 |
| 16 | 128 | --- | 10 | 1,490 | --- | 70,000 | 300 | --- | 35 |
| 17 | 132 | --- | 10 | 1,680 | --- | 90,000 | 249 | --- | 15 |
| 18 | 128 | --- | 10 | 1,380 | --- | 25,000 | 226 | --- | 6.5 |
| 19 | 126 | --- | 10 | 1,080 | --- | 7,500 | 216 | --- | 5.5 |
| 20 | 126 | --- | 10 | 780 | --- | 2,000 | 198 | 7 | 3.7 |
| 21 | 128 | --- | 10 | 475 | 285 | 366 | 188 | --- | 3.5 |
| 22 | 244 | --- | 60 | 530 | --- | 500 | 176 | --- | 3.0 |
| 23 | 154 | --- | 20 | 585 | --- | 700 | 170 | --- | 3.0 |
| 24 | 142 | --- | 20 | 640 | --- | 1,000 | 170 | --- | 3.0 |
| 25 | 137 | --- | 20 | 580 | --- | 350 | 170 | --- | 3.0 |
| 26 | 136 | 45 | 17 | 525 | --- | 300 | 167 | --- | 3.0 |
| 27 | 133 | --- | 15 | 470 | --- | 150 | 158 | --- | 3.0 |
| 28 | 130 | --- | 15 | 410 | --- | 70 | 152 | --- | 3.0 |
| 29 | 128 | --- | 15 | 350 | --- | 35 | 205 | --- | 4.0 |
| 30 | 266 | --- | 70 | 295 | --- | 20 | 216 | --- | 5.5 |
| 31 | 195 | --- | 40 | --- | --- | --- | 226 | --- | 6.5 |
| TOTAL | 4,462 | --- | 515.5 | 18,411 | --- | 339,461 | 7,224 | --- | 935.2 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 198 | --- | 3.5 | 296 | --- | 60 | 223 | --- | 30 |
| 2 | 229 | --- | 7.0 | 270 | --- | 45 | 234 | --- | 35 |
| 3 | 620 | --- | 7,000 | 253 | --- | 40 | 230 | --- | 35 |
| 4 | 603 | --- | 5,000 | 234 | --- | 30 | 223 | --- | 30 |
| 5 | 485 | --- | 1,000 | 219 | --- | 25 | 219 | --- | 30 |
| 6 | 404 | --- | 300 | 209 | --- | 20 | 212 | --- | 25 |
| 7 | 371 | --- | 150 | 192 | --- | 15 | 209 | --- | 20 |
| 8 | 346 | --- | 90 | 176 | 31 | 15 | 209 | --- | 20 |
| 9 | 327 | --- | 60 | 179 | --- | 15 | 212 | --- | 25 |
| 10 | 309 | 47 | 39 | 188 | --- | 15 | 246 | --- | 40 |
| 11 | 253 | --- | 15 | 218 | --- | 25 | 270 | --- | 60 |
| 12 | 234 | --- | 8.5 | 498 | --- | 1,500 | 404 | 306 | 334 |
| 13 | 223 | --- | 6.5 | 531 | --- | 2,000 | 418 | --- | 450 |
| 14 | 216 | --- | 5.5 | 444 | 712 | 854 | 466 | --- | 850 |
| 15 | 202 | --- | 4.0 | 382 | --- | 300 | 487 | --- | 1,000 |
| 16 | 195 | --- | 3.5 | 337 | --- | 150 | 444 | --- | 150 |
| 17 | 188 | --- | 3.5 | 296 | --- | 85 | 403 | --- | 95 |
| 18 | 182 | --- | 3.0 | 261 | --- | 50 | 389 | --- | 80 |
| 19 | 179 | --- | 3.0 | 249 | --- | 45 | 406 | --- | 100 |
| 20 | 170 | --- | 3.0 | 257 | --- | 60 | 459 | --- | 200 |
| 21 | 170 | --- | 3.0 | 249 | --- | 45 | 533 | --- | 750 |
| 22 | 237 | --- | 9.0 | 242 | --- | 40 | 484 | 220 | 287 |
| 23 | 389 | 1,480 | 2,400 | 242 | --- | 40 | 366 | --- | 60 |
| 24 | 783 | 4,020 | 8,500 | 238 | --- | 35 | 314 | --- | 35 |
| 25 | 995 | 4,720 | 13,400 | 226 | --- | 30 | 296 | --- | 30 |
| 26 | 747 | --- | 3,500 | 219 | --- | 30 | 265 | --- | 20 |
| 27 | 597 | --- | 750 | 212 | --- | 30 | 238 | --- | 15 |
| 28 | 498 | --- | 350 | 216 | 48 | 28 | 238 | --- | 15 |
| 29 | 433 | --- | 200 | 212 | --- | 25 | 219 | --- | 15 |
| 30 | 361 | --- | 100 | --- | --- | --- | 205 | --- | 10 |
| 31 | 327 | --- | 80 | --- | --- | --- | 202 | --- | 10 |
| TOTAL | 11,471 | --- | 42,997.0 | 7,745 | --- | 5,652 | 9,723 | --- | 4,856 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 192 | --- | 10 | 290 | --- | 30 | 261 | --- | 7.0 |
| 2 | 188 | --- | 10 | 351 | 53 | 50 | 265 | --- | 7.0 |
| 3 | 192 | --- | 10 | 351 | --- | 40 | 242 | --- | 6.0 |
| 4 | 188 | --- | 10 | 332 | --- | 30 | 261 | --- | 6.0 |
| 5 | 188 | --- | 10 | 327 | --- | 20 | 246 | --- | 5.5 |
| 6 | 179 | 19 | 9.2 | 287 | --- | 15 | 230 | --- | 5.0 |
| 7 | 221 | --- | 15 | 278 | --- | 10 | 223 | --- | 5.0 |
| 8 | 204 | --- | 10 | 282 | --- | 10 | 219 | --- | 4.5 |
| 9 | 218 | --- | 15 | 282 | --- | 10 | 223 | --- | 4.5 |
| 10 | 244 | --- | 20 | 276 | --- | 10 | 219 | --- | 4.0 |
| 11 | 251 | --- | 20 | 344 | --- | 15 | 209 | --- | 4.0 |
| 12 | 314 | --- | 35 | 323 | --- | 15 | 212 | --- | 3.5 |
| 13 | 312 | --- | 35 | 314 | --- | 15 | 205 | --- | 3.5 |
| 14 | 311 | --- | 35 | 305 | --- | 15 | 192 | --- | 3.0 |
| 15 | 309 | --- | 35 | 296 | --- | 15 | 188 | --- | 3.0 |
| 16 | 300 | --- | 30 | 282 | --- | 10 | 185 | --- | 3.0 |
| 17 | 287 | --- | 30 | 274 | --- | 10 | 185 | --- | 3.0 |
| 18 | 278 | --- | 25 | 265 | --- | 10 | 182 | --- | 3.0 |
| 19 | 265 | --- | 20 | 278 | --- | 10 | 182 | 6 | 2.9 |
| 20 | 257 | --- | 20 | 265 | --- | 10 | 198 | --- | 4.0 |
| 21 | 245 | --- | 20 | 250 | --- | 10 | 198 | --- | 4.0 |
| 22 | 242 | --- | 20 | 288 | --- | 9.5 | 182 | --- | 3.0 |
| 23 | 234 | --- | 15 | 314 | --- | 9.0 | 179 | --- | 3.0 |
| 24 | 226 | --- | 15 | 284 | --- | 8.5 | 179 | --- | 3.0 |
| 25 | 223 | --- | 15 | 305 | 10 | 8.2 | 179 | --- | 3.0 |
| 26 | 216 | --- | 15 | 356 | --- | 10 | 179 | --- | 3.0 |
| 27 | 212 | --- | 15 | 327 | --- | 9.5 | 179 | --- | 3.0 |
| 28 | 212 | --- | 15 | 309 | --- | 9.0 | 176 | --- | 3.0 |
| 29 | 212 | --- | 15 | 314 | --- | 8.5 | 179 | --- | 3.5 |
| 30 | 227 | --- | 15 | 309 | --- | 8.0 | 173 | --- | 3.5 |
| 31 | --- | --- | --- | 270 | --- | 7.5 | --- | --- | --- |
| TOTAL | 7,147 | --- | 564.2 | 9,328 | --- | 447.7 | 6,130 | --- | 119.4 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 170 | --- | 3.5 | 142 | | 4.0 | 142 | --- | 7.0 |
| 2 | 167 | --- | 3.5 | 142 | | 4.0 | 137 | --- | 6.0 |
| 3 | 164 | --- | 3.5 | 142 | | 4.0 | 134 | --- | 5.0 |
| 4 | 164 | --- | 3.5 | 142 | | 4.0 | 137 | --- | 5.0 |
| 5 | 164 | --- | 3.5 | 139 | | 4.0 | 147 | --- | 7.0 |
| 6 | 158 | --- | 3.5 | 139 | | 4.0 | 152 | 24 | 9.8 |
| 7 | 158 | --- | 3.5 | 137 | | 4.0 | 164 | --- | 13 |
| 8 | 158 | --- | 3.5 | 137 | | 4.0 | 161 | --- | 12 |
| 9 | 155 | --- | 3.5 | 139 | | 4.0 | 142 | --- | 7.0 |
| 10 | 152 | --- | 3.5 | 139 | | 4.0 | 139 | --- | 7.0 |
| 11 | 149 | --- | 3.5 | 139 | | 4.0 | 137 | --- | 7.0 |
| 12 | 149 | --- | 3.5 | 137 | | 4.0 | 142 | --- | 7.0 |
| 13 | 149 | 9 | 3.6 | 137 | | 4.0 | 137 | --- | 7.0 |
| 14 | 147 | --- | 3.5 | 137 | | 4.0 | 137 | --- | 7.0 |
| 15 | 147 | --- | 3.5 | 137 | | 4.0 | 137 | --- | 7.0 |
| 16 | 147 | --- | 3.5 | 139 | | 4.0 | 137 | --- | 7.0 |
| 17 | 147 | --- | 3.5 | 139 | | 4.0 | 134 | --- | 7.0 |
| 18 | 144 | --- | 3.5 | 139 | | 4.0 | 134 | --- | 7.0 |
| 19 | 147 | --- | 4.0 | 139 | | 4.0 | 134 | --- | 7.0 |
| 20 | 147 | --- | 4.0 | 137 | | 4.0 | 134 | --- | 7.0 |
| 21 | 144 | --- | 4.0 | 137 | | 4.0 | 134 | --- | 7.0 |
| 22 | 144 | --- | 4.0 | 137 | | 4.0 | 139 | --- | 7.0 |
| 23 | 147 | --- | 4.0 | 137 | | 4.0 | 137 | --- | 7.0 |
| 24 | 147 | 10 | 4.0 | 137 | | 4.0 | 134 | --- | 7.0 |
| 25 | 144 | --- | 4.0 | 139 | | 4.0 | 134 | --- | 7.0 |
| 26 | 144 | --- | 4.0 | 139 | | 4.0 | 134 | --- | 7.0 |
| 27 | 142 | --- | 4.0 | 139 | | 4.0 | 132 | --- | 7.0 |
| 28 | 144 | --- | 4.0 | 139 | | 4.0 | 132 | --- | 7.0 |
| 29 | 142 | --- | 4.0 | 139 | | 4.0 | 132 | --- | 7.0 |
| 30 | 142 | --- | 4.0 | 137 | | 4.0 | 130 | --- | 7.0 |
| 31 | 142 | --- | 4.0 | 134 | | 4.0 | --- | --- | --- |
| TOTAL | 4,665 | --- | 115.1 | 4,292 | | 124.0 | 4,156 | --- | 218.8 |
| YEAR | 94,754 | | 396,005.9 TONS | | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 07... | 1510 | 10.0 | 138 | 10.0 | 40 | 15 | -- | -- | -- |
| 12... | 1440 | 9.0 | 135 | 10.0 | 30 | 11 | -- | -- | -- |
| 26... | 1325 | 8.5 | 136 | 10.0 | 45 | 17 | -- | -- | -- |
| NOV | | | | | | | | | |
| 03... | 1145 | 10.0 | 820 | 20.0 | 37,800 | 83,700 | 4 | 5 | 8 |
| 04... | 1630 | -- | 540 | 20.0 | 7,100 | 10,400 | -- | -- | -- |
| 15... | 1500 | 9.0 | 592 | 20.0 | 3,850 | 6,150 | -- | -- | -- |
| 21... | 1310 | 6.0 | 473 | 20.0 | 285 | 364 | -- | -- | -- |
| DEC | | | | | | | | | |
| 09... | 1500 | 5.5 | 222 | 20.0 | 32 | 19 | -- | -- | -- |
| 20... | 1250 | 3.0 | 195 | 10.0 | 7 | 3.7 | -- | -- | -- |
| JAN | | | | | | | | | |
| 10... | 1445 | 5.5 | 286 | 20.0 | 47 | 36 | -- | -- | -- |
| 23... | 1305 | 4.5 | 257 | 20.0 | 410 | 284 | -- | -- | -- |
| 24... | 0905 | 4.0 | 726 | 20.0 | 3,620 | 7,100 | -- | -- | -- |
| 24... | 1535 | 5.0 | 726 | 20.0 | 3,170 | 6,210 | 6 | 6 | 10 |
| 25... | 1800 | 4.5 | 904 | 20.0 | 3,110 | 7,590 | 4 | 4 | 5 |
| FEB | | | | | | | | | |
| 08... | 1505 | 9.0 | 174 | 10.0 | 31 | 15 | -- | -- | -- |
| 14... | 1235 | 5.0 | 451 | 10.0 | 712 | 867 | -- | -- | -- |
| 28... | 1410 | 8.5 | 225 | 10.0 | 48 | 29 | -- | -- | -- |
| MAR | | | | | | | | | |
| 12... | 1255 | 7.0 | 417 | 10.0 | 306 | 345 | -- | -- | -- |
| 22... | 1115 | 6.0 | 501 | 20.0 | 220 | 298 | -- | -- | -- |
| APR | | | | | | | | | |
| 06... | 1310 | 7.0 | 180 | 10.0 | 19 | 9.2 | -- | -- | -- |
| MAY | | | | | | | | | |
| 02... | 1230 | 7.5 | 361 | 20.0 | 53 | 52 | -- | -- | -- |
| 25... | 1210 | 8.0 | 277 | 20.0 | 10 | 7.5 | -- | -- | -- |
| JUN | | | | | | | | | |
| 19... | 1005 | 9.0 | 184 | 10.0 | 6 | 3.0 | -- | -- | -- |
| JUL | | | | | | | | | |
| 13... | 1225 | 13.0 | 149 | 10.0 | 9 | 3.6 | -- | -- | -- |
| 24... | 1445 | 14.0 | 140 | 10.0 | 10 | 3.8 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 07... | -- | -- | 14 | 28 | 52 | 75 | 89 | 100 |
| 12... | -- | -- | 9 | -- | -- | -- | -- | -- |
| 26... | -- | -- | 21 | 34 | 53 | 74 | 87 | 100 |
| NOV | | | | | | | | |
| 03... | 15 | 23 | 32 | 44 | 73 | 91 | 97 | 100 |
| 04... | -- | -- | 17 | 27 | 51 | 83 | 96 | 99 |
| 15... | -- | -- | 13 | 23 | 40 | 66 | 87 | 97 |
| 21... | -- | -- | 13 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | |
| 09... | -- | -- | 46 | -- | -- | -- | -- | -- |
| 20... | -- | -- | 43 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | |
| 10... | -- | -- | 37 | 49 | 72 | 100 | -- | -- |
| 23... | -- | -- | 76 | 83 | 88 | 93 | 97 | 100 |
| 24... | -- | -- | 27 | -- | -- | -- | -- | -- |
| 24... | 17 | 24 | 30 | 42 | 63 | 82 | 95 | 99 |
| 25... | 9 | 13 | 18 | 29 | 51 | 75 | 91 | 97 |
| FEB | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | 41 | -- | -- | -- | -- | -- |
| 28... | -- | -- | 15 | 28 | 54 | 77 | 100 | -- |
| MAR | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 19... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) |
|---|---|---|---|---|---|---|
| SEP | | | | | | |
| 06... | 1145 | 9.5 | 148 | 10.0 | '24 | 9.6 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 10... | 0945 | 8.0 | 179 | 20.0 | 350 | 169 | 92 | 94 | 96 | 98 | 100 |

## 14240352 COLDWATER LAKE CANAL NEAR SPIRIT LAKE, WA

**LOCATION.**--Lat 46°17′16″, long 122°16′10″, in NW ¼ SE ¼ sec. 2, T.9 N., R.4 E., Cowlitz County, Hydrologic Unit 17080005, Mount St. Helens National Volcanic Monument, on right bank 1,000 ft downstream from outlet of Coldwater Lake, 5.8 mi west of Spirit Lake, and 1.5 mi upstream from mouth.

**DRAINAGE AREA.**--36.2 $mi^2$, since April 1985. Prior to April 1985, 17.5 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--January 1984 to September 1986.

**GAGE.**--Water-stage recorder. Altitude of gage is 2,500 ft, from topographic map.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1985 | May 21, 1985 | 1620 | 3,880 |
| 1986 | Mar. 24, 1986 | 1250 | 2,830 |

14240352 COLDWATER LAKE CANAL NEAR SPIRIT LAKE, WA

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) |
|---|---|---|---|---|---|---|
| JAN | | | | | | |
| 11... | 1400 | 3.0 | -- | 10.0 | 3 | --- |
| AUG | | | | | | |
| 27... | 1220 | 18.5 | 19 | 10.0 | 1 | 0.05 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| NOV | | | | | | | |
| 09... | 1315 | 6.0 | 131 | 10.0 | 34 | 12 | -- |
| JAN | | | | | | | |
| 11... | 1400 | 3.0 | 55 | 10.0 | 3 | 0.45 | -- |
| 22... | 1315 | 3.5 | 64 | 10.0 | 8 | 1.4 | -- |
| FEB | | | | | | | |
| 04... | 1255 | 2.0 | 47 | 10.0 | 4 | 0.51 | -- |
| MAR | | | | | | | |
| 01... | 1300 | 3.5 | 77 | 10.0 | 7 | 1.5 | -- |
| 12... | 1215 | 5.0 | 58 | 10.0 | 42 | 6.6 | -- |
| 29... | 1200 | 5.0 | 79 | 10.0 | 22 | 4.7 | -- |
| APR | | | | | | | |
| 09... | 1225 | 10.0 | 229 | 10.0 | 76 | 47 | -- |
| 11... | 1720 | -- | 488 | 10.0 | 130 | 171 | 43 |
| 12... | 1640 | 9.5 | 350 | 10.0 | 84 | 79 | 96 |
| 19... | 1220 | 6.0 | 197 | 10.0 | 108 | 57 | 100 |
| 25... | 1535 | -- | 113 | 10.0 | 18 | 5.5 | -- |
| 27... | 1405 | 7.5 | 113 | 10.0 | 506 | 154 | 100 |
| 27... | 1515 | 7.5 | 117 | 20.0 | 290 | 92 | 99 |
| 27... | 1625 | 7.5 | 114 | 20.0 | 270 | 83 | 99 |
| 27... | 1755 | 7.0 | 124 | 10.0 | 746 | 250 | 100 |
| 27... | 1845 | -- | 130 | 10.0 | 512 | 180 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 06... | 1330 | 7.5 | 150 | 20.0 | 544 | 220 | -- | -- | -- |
| 06... | 1700 | 8.0 | 159 | 20.0 | 1,180 | 507 | -- | -- | -- |
| 07... | 1350 | 9.0 | 213 | 10.0 | 1,270 | 733 | -- | -- | -- |
| 09... | 1250 | 10.0 | 292 | 10.0 | 958 | 755 | 26 | 42 | 66 |
| 11... | 1440 | -- | 315 | 10.0 | 1,020 | 868 | -- | -- | -- |
| 14... | 1210 | 9.5 | 233 | 10.0 | 2,330 | 1,470 | -- | -- | -- |
| 14... | 1230 | 8.0 | 226 | 10.0 | 742 | 453 | -- | -- | -- |
| 14... | 1340 | 8.0 | 232 | 10.0 | 2,200 | 1,380 | 29 | 44 | 70 |
| 14... | 1500 | 8.5 | 218 | 10.0 | 3,080 | 1,810 | -- | -- | -- |
| 14... | 1600 | 8.5 | 239 | 10.0 | 3,400 | 2,190 | 29 | 42 | 67 |
| 14... | 1755 | 9.0 | 248 | 10.0 | 1,500 | 1,000 | -- | -- | -- |
| 15... | 1155 | 9.0 | 280 | 10.0 | 1,320 | 998 | -- | -- | -- |
| 16... | 1115 | -- | 367 | 10.0 | 1,040 | 1,040 | -- | -- | -- |
| 17... | 1340 | 13.0 | 449 | 10.0 | 1,190 | 1,440 | -- | -- | -- |
| 19... | 1140 | 9.0 | 548 | 10.0 | 1,300 | 1,920 | -- | -- | -- |
| 21... | 1120 | -- | 370 | 10.0 | 72 | 72 | -- | -- | -- |
| 21... | 1310 | 14.0 | 372 | 10.0 | 2,180 | 2,190 | 24 | 33 | 52 |
| 21... | 1410 | 14.0 | 375 | 10.0 | 2,540 | 2,570 | -- | -- | -- |
| 21... | 1500 | 14.5 | 380 | 10.0 | 3,420 | 3,510 | -- | -- | -- |
| 21... | 1620 | 14.5 | 393 | 10.0 | 3,880 | 4,120 | 26 | 41 | 61 |
| 21... | 1655 | 14.0 | 393 | 10.0 | 3,660 | 3,880 | -- | -- | -- |
| 23... | 1140 | -- | 542 | 10.0 | 1,900 | 2,780 | -- | -- | -- |
| 25... | 1250 | -- | 820 | 10.0 | 3,090 | 6,850 | -- | -- | -- |
| 27... | 1415 | -- | 744 | 10.0 | 3,520 | 7,070 | -- | -- | -- |
| 28... | 1345 | 11.0 | 659 | 10.0 | 1,850 | 3,290 | 17 | 27 | 40 |
| JUN | | | | | | | | | |
| 04... | 1240 | 10.0 | 172 | 10.0 | 204 | 95 | -- | -- | -- |
| 07... | 1115 | 10.5 | 389 | 10.0 | 2,480 | 2,610 | -- | -- | -- |
| 11... | 1300 | 15.0 | 543 | 10.0 | 3,290 | 4,820 | -- | -- | -- |
| 19... | 1145 | 17.0 | 504 | 10.0 | 3,000 | 4,090 | -- | -- | -- |
| 28... | 1435 | 17.0 | 469 | 10.0 | 2,290 | 2,900 | -- | -- | -- |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | |
| 10... | 1350 | 20.5 | 427 | 10.0 | 984 | 1,130 | -- | 32 |
| 15... | 1340 | 21.5 | 312 | 20.0 | 710 | 598 | -- | 25 |
| 23... | 1330 | 20.5 | 365 | 10.0 | 432 | 426 | -- | 16 |
| AUG | | | | | | | | |
| 02... | 1205 | 18.5 | 418 | 10.0 | 2,940 | 3,320 | 62 | -- |
| 02... | 1220 | 18.5 | 418 | 20.0 | 2,830 | 3,190 | 62 | -- |
| 15... | 1120 | 19.0 | 323 | 10.0 | 488 | 426 | 26 | -- |
| 27... | 1310 | 18.0 | 222 | 10.0 | 265 | 159 | 21 | -- |
| SEP | | | | | | | | |
| 04... | 1500 | 18.0 | 131 | 10.0 | 271 | 96 | -- | 5 |
| 23... | 1145 | -- | 183 | 10.0 | 1,960 | 968 | -- | 99 |
| 24... | 1415 | 15.5 | 189 | 10.0 | 270 | 138 | -- | 12 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 06... | -- | -- | -- | 99 | -- | -- | -- | -- |
| 06... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 07... | -- | -- | -- | 98 | -- | -- | -- | -- |
| 09... | 85 | 96 | -- | 99 | -- | 100 | -- | -- |
| 11... | -- | -- | -- | 98 | -- | -- | -- | -- |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 14... | 91 | 98 | -- | 100 | -- | -- | -- | -- |
| 14... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 14... | 88 | 98 | -- | 100 | -- | -- | -- | -- |
| 14... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 15... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 16... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 17... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 19... | -- | -- | -- | 97 | -- | -- | -- | -- |
| 21... | -- | -- | -- | 98 | -- | 99 | -- | 100 |
| 21... | 75 | 95 | -- | 100 | -- | -- | -- | -- |
| 21... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 21... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 21... | 82 | 97 | -- | 100 | -- | -- | -- | -- |
| 21... | -- | -- | -- | 100 | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | -- | -- | 98 | -- | -- | -- | -- |
| 27... | -- | -- | -- | 89 | -- | -- | -- | -- |
| 28... | 56 | 73 | 85 | -- | 97 | -- | 100 | -- |
| JUN | | | | | | | | |
| 04... | -- | -- | -- | 75 | -- | -- | -- | -- |
| 07... | -- | -- | -- | 80 | -- | -- | -- | -- |
| 11... | -- | -- | -- | 52 | -- | -- | -- | -- |
| 19... | -- | -- | -- | 47 | -- | -- | -- | -- |
| 28... | -- | -- | 55 | -- | 89 | -- | 100 | -- |

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | 43 | -- | 88 | -- | 98 | 100 |
| 23... | -- | 36 | -- | 87 | -- | 99 | 100 |
| AUG | | | | | | | |
| 02... | 87 | -- | 100 | -- | -- | -- | -- |
| 02... | 88 | -- | 100 | -- | -- | -- | -- |
| 15... | 56 | -- | 96 | -- | 100 | -- | -- |
| 27... | 57 | -- | 97 | -- | 100 | -- | -- |
| SEP | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| OCT | | | | | | | |
| 16... | 1230 | 10.5 | 175 | 10.0 | 153 | 72 | 14 |
| 28... | 1320 | 9.5 | 362 | 10.0 | 901 | 881 | 31 |
| NOV | | | | | | | |
| 14... | 1300 | 7.0 | 267 | 10.0 | 472 | 340 | 14 |
| DEC | | | | | | | |
| 03... | 1225 | 3.5 | 163 | 10.0 | 109 | 48 | 28 |
| 19... | 1155 | 4.5 | 156 | 10.0 | 14 | 5.9 | 39 |
| 31... | 1235 | 4.0 | 135 | 10.0 | 4 | 1.5 | 50 |
| JAN | | | | | | | |
| 27... | 1255 | 4.5 | 196 | 10.0 | 233 | 123 | 33 |
| FEB | | | | | | | |
| 28... | 1330 | 6.0 | 382 | 10.0 | 1,070 | 1,110 | 40 |
| MAR | | | | | | | |
| 03... | 1245 | -- | 279 | 10.0 | 773 | 582 | -- |
| 04... | 1250 | 7.5 | 356 | 10.0 | 2,830 | 2,720 | 8 |
| APR | | | | | | | |
| 02... | 1505 | -- | 281 | 10.0 | 213 | 162 | 20 |
| 10... | 1540 | 9.0 | 284 | 10.0 | 188 | 144 | 9 |
| MAY | | | | | | | |
| 08... | 1425 | 9.0 | 264 | 10.0 | 126 | 90 | 22 |
| JUN | | | | | | | |
| 09... | 1400 | 16.0 | 244 | 10.0 | 74 | 49 | -- |
| JUL | | | | | | | |
| 03... | 1500 | 17.0 | 137 | 10.0 | 9 | 3.3 | -- |
| 28... | 1335 | 18.5 | 94 | 10.0 | 7 | 1.8 | -- |
| SEP | | | | | | | |
| 29... | 1245 | 12.5 | 115 | 10.0 | 139 | 43 | 89 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 09... | 1230 | 2 | 3 | 9 | 20 | 35 | 46 | 54 | 62 | 78 | 100 | -- |
| JUL | | | | | | | | | | | | |
| 10... | 1315 | 1 | 17 | 93 | 99 | 100 | -- | -- | -- | -- | -- | -- |
| 10... | 1320 | 1 | 22 | 99 | 100 | -- | -- | -- | -- | -- | -- | -- |
| 10... | 1325 | 0 | 3 | 33 | 56 | 65 | 72 | 80 | 88 | 95 | 100 | -- |
| 10... | 1330 | 0 | 1 | 20 | 46 | 59 | 70 | 89 | 91 | 95 | 100 | -- |
| 10... | 1335 | 0 | 0 | 12 | 47 | 70 | 84 | 91 | 95 | 98 | 100 | -- |
| 15... | 1245 | 0 | 2 | 32 | 90 | 99 | 100 | -- | -- | -- | -- | -- |
| 15... | 1250 | 0 | 1 | 11 | 61 | 90 | 97 | 99 | 100 | -- | -- | -- |
| 15... | 1255 | 0 | 1 | 19 | 51 | 65 | 74 | 79 | 86 | 94 | 100 | -- |
| 15... | 1300 | 0 | 1 | 9 | 39 | 69 | 84 | 92 | 99 | 100 | -- | -- |
| 15... | 1305 | 0 | 1 | 5 | 34 | 70 | 87 | 94 | 98 | 100 | -- | -- |
| 23... | 1355 | 0 | 1 | 14 | 37 | 58 | 77 | 89 | 95 | 100 | -- | -- |
| 23... | 1400 | 0 | 0 | 4 | 16 | 37 | 68 | 91 | 98 | 100 | -- | -- |
| 23... | 1405 | 0 | 1 | 28 | 76 | 89 | 96 | 98 | 100 | -- | -- | -- |
| 23... | 1410 | 0 | 0 | 7 | 37 | 62 | 80 | 89 | 96 | 99 | 100 | -- |
| 23... | 1415 | 0 | 1 | 19 | 73 | 90 | 96 | 98 | 100 | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 02... | 1215 | 0 | 1 | 6 | 28 | 51 | 70 | 84 | 94 | 100 | -- | -- |
| 02... | 1220 | 0 | 1 | 16 | 37 | 49 | 57 | 64 | 75 | 81 | 100 | -- |
| 02... | 1225 | 0 | 2 | 13 | 26 | 35 | 42 | 49 | 61 | 75 | 100 | -- |
| 02... | 1230 | 1 | 15 | 91 | 99 | 100 | -- | -- | -- | -- | -- | -- |
| 02... | 1235 | 2 | 20 | 91 | 99 | 100 | -- | -- | -- | -- | -- | -- |
| 15... | 1230 | 0 | 0 | 11 | 60 | 94 | 98 | 100 | -- | -- | -- | -- |
| 15... | 1235 | 0 | 1 | 31 | 92 | 99 | 100 | -- | -- | -- | -- | -- |
| 15... | 1240 | 0 | 1 | 28 | 79 | 89 | 95 | 98 | 99 | 100 | -- | -- |
| 15... | 1245 | 0 | 0 | 3 | 24 | 53 | 77 | 91 | 98 | 100 | -- | -- |
| 15... | 1250 | 1 | 6 | 34 | 77 | 92 | 97 | 99 | 100 | -- | -- | -- |
| 27... | 1330 | 0 | 0 | 8 | 52 | 83 | 92 | 96 | 99 | 100 | -- | -- |
| 27... | 1335 | 0 | 0 | 8 | 40 | 71 | 88 | 95 | 99 | 100 | -- | -- |
| 27... | 1340 | 0 | 0 | 10 | 40 | 68 | 89 | 96 | 99 | 100 | -- | -- |
| 27... | 1345 | 0 | 3 | 53 | 97 | 100 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 04... | 1445 | 0 | 1 | 15 | 44 | 63 | 77 | 86 | 93 | 98 | 100 | -- |
| 04... | 1450 | 0 | 1 | 11 | 38 | 58 | 76 | 88 | 97 | 100 | -- | -- |
| 04... | 1455 | 0 | 1 | 10 | 47 | 63 | 73 | 82 | 88 | 94 | 100 | -- |
| 04... | 1500 | 0 | 0 | 6 | 36 | 56 | 72 | 83 | 90 | 97 | 100 | -- |
| 04... | 1505 | 0 | 1 | 10 | 36 | 50 | 59 | 70 | 83 | 95 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 16... | 1300 | 0 | 0 | 3 | 26 | 62 | 82 | 91 | 97 | 100 | -- | -- |
| 16... | 1305 | 0 | 0 | 5 | 24 | 46 | 66 | 80 | 91 | 98 | 100 | -- |
| 16... | 1310 | 0 | 0 | 6 | 21 | 33 | 45 | 58 | 73 | 90 | 100 | -- |
| 16... | 1315 | 0 | 0 | 4 | 22 | 43 | 61 | 74 | 83 | 88 | 91 | 100 |
| 16... | 1320 | 0 | 1 | 10 | 26 | 39 | 52 | 67 | 85 | 97 | 100 | -- |
| 28... | 1400 | 0 | 1 | 6 | 10 | 15 | 19 | 23 | 30 | 41 | 69 | 100 |
| 28... | 1405 | 0 | 0 | 5 | 31 | 53 | 69 | 83 | 96 | 100 | -- | -- |
| 28... | 1410 | 0 | 0 | 10 | 57 | 75 | 83 | 88 | 95 | 99 | 100 | -- |
| 28... | 1415 | 0 | 0 | 2 | 11 | 31 | 50 | 67 | 84 | 97 | 100 | -- |
| 28... | 1420 | 0 | 0 | 3 | 15 | 44 | 73 | 87 | 94 | 99 | 100 | -- |

## 14240400 NORTH FORK TOUTLE RIVER ABOVE BEAR CREEK NEAR KID VALLEY, WA

**LOCATION.**--Lat 46°16′48″, long 122°22′17″, in SE ¼ SE ¼ sec. 7, T.9 N., R.4 E., Cowlitz County, Hydrologic Unit 17080005, Mount St. Helens National Volcanic Monument, on left bank, 14.6 mi southeast of Kid Valley.

**DRAINAGE AREA.**--79.2 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--August 1984 through September 1987.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.**--

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1985 | June 7, 1985 | 1150 | 124,000 |
| 1986 | Oct. 25, 1985 | 1130 | 28,300 |
| 1987 | Nov. 24, 1986 | 0915 | 61,800 |

14240400 NORTH FORK TOUTLE RIVER ABOVE BEAR CREEK NEAR KID VALLEY, WA

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | |
| 28... | 1040 | 3.0 | 701 | 20.0 | 7,010 | 13,300 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 03... | 1400 | 4.0 | 499 | 20.0 | 5,690 | 7,670 | -- | -- | -- | -- | -- | -- |
| 08... | 1655 | 5.0 | 478 | 20.0 | 1,050 | 1,360 | -- | -- | -- | -- | -- | -- |
| 10... | 1340 | 6.0 | 406 | 20.0 | 702 | 770 | -- | -- | -- | -- | -- | -- |
| 17... | 1300 | 8.0 | 482 | 20.0 | 486 | 632 | -- | -- | -- | -- | -- | -- |
| 23... | 1330 | 7.0 | 466 | 20.0 | 872 | 1,100 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1450 | 3.0 | 415 | 20.0 | 326 | 365 | -- | -- | -- | -- | -- | -- |
| 08... | 1415 | -- | 399 | 20.0 | 340 | 366 | -- | -- | -- | -- | -- | -- |
| 11... | 1345 | 6.5 | 418 | 20.0 | 840 | 948 | -- | -- | -- | -- | -- | -- |
| 19... | 1335 | 4.5 | 663 | 20.0 | 8,690 | 15,600 | -- | -- | -- | -- | -- | -- |
| 27... | 1300 | 9.0 | 705 | 20.0 | 6,840 | 13,000 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 05... | 1345 | 7.0 | 444 | 20.0 | 712 | 854 | -- | -- | -- | -- | -- | -- |
| 12... | 1300 | 8.0 | 478 | 20.0 | 206 | 266 | -- | -- | -- | -- | -- | -- |
| 22... | 1400 | 8.0 | 560 | 20.0 | 910 | 1,380 | -- | -- | -- | -- | -- | 20 |
| 29... | 1230 | 7.0 | 564 | 20.0 | 5,780 | 8,800 | 3 | 4 | 5 | 9 | 12 | 23 |
| APR | | | | | | | | | | | | |
| 04... | 1210 | 8.0 | 510 | 20.0 | 716 | 986 | -- | -- | -- | -- | -- | -- |
| 11... | 1440 | 9.0 | 1,410 | 20.0 | 28,800 | 110,000 | 7 | 8 | 12 | 20 | 29 | -- |
| 19... | 1245 | 5.0 | 567 | 20.0 | 16,100 | 24,600 | -- | -- | -- | -- | -- | -- |
| 27... | 1235 | 9.0 | 444 | 20.0 | 794 | 952 | -- | -- | -- | -- | -- | 37 |
| 27... | 1645 | 9.0 | 444 | 20.0 | 2,160 | 2,590 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 06... | 1250 | 10.5 | 363 | 20.0 | 760 | 745 | -- | -- | -- | -- | -- | -- |
| 07... | 1115 | 12.0 | 474 | 20.0 | 1,120 | 1,430 | 15 | 18 | 27 | 36 | 41 | 46 |
| 10... | 1400 | 9.0 | 525 | 20.0 | 3,380 | 4,790 | 5 | 9 | 14 | 19 | 23 | 27 |
| 17... | 1545 | 11.0 | 991 | 20.0 | 23,000 | 61,500 | 7 | 7 | 12 | 18 | 26 | -- |
| 23... | 1155 | 13.5 | 1,090 | 20.0 | 23,700 | 69,700 | 10 | 12 | 15 | 26 | 36 | 49 |
| 25... | 1420 | -- | 1,570 | 10.0 | 64,300 | 273,000 | -- | -- | -- | -- | -- | -- |
| 25... | 1425 | -- | 1,570 | 10.0 | 64,300 | 273,000 | -- | -- | -- | -- | -- | -- |
| 28... | 1440 | 12.0 | 1,690 | 10.0 | 34,200 | 156,000 | 8 | 9 | 14 | 21 | 32 | -- |
| JUN | | | | | | | | | | | | |
| 07... | 1150 | 13.0 | 1,820 | 20.0 | 124,000 | 609,000 | 8 | 9 | 14 | 23 | 33 | -- |
| 07... | 1325 | 13.0 | 1,820 | 20.0 | 75,400 | 371,000 | 6 | 9 | 15 | 23 | 34 | -- |
| 11... | 1345 | 18.5 | 931 | 20.0 | 19,600 | 49,300 | -- | -- | -- | -- | -- | -- |
| 19... | 1315 | 20.0 | 748 | 20.0 | 9,160 | 18,500 | -- | -- | -- | -- | -- | 35 |
| JUL | | | | | | | | | | | | |
| 01... | 1130 | 17.0 | 845 | 10.0 | 8,500 | 19,400 | -- | -- | -- | -- | -- | 27 |
| 12... | 1240 | 19.0 | 605 | 10.0 | 6,880 | 11,200 | -- | -- | -- | -- | -- | 23 |
| AUG | | | | | | | | | | | | |
| 01... | 1240 | 19.0 | 638 | 10.0 | 12,900 | 22,200 | 7 | 9 | 15 | 21 | 32 | -- |
| 21... | 1325 | 16.0 | 339 | 20.0 | 808 | 740 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 06... | 1400 | 11.5 | 194 | 10.0 | 1,880 | 985 | -- | -- | -- | -- | -- | 80 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | |
| 28... | 30 | -- | 40 | -- | 59 | -- | 81 | -- | 94 | -- | 99 |
| JAN | | | | | | | | | | | |
| 03... | 31 | -- | 43 | -- | 66 | -- | 90 | -- | 99 | -- | 100 |
| 08... | 30 | -- | 42 | -- | 59 | -- | 76 | -- | 90 | -- | 98 |
| 10... | 32 | -- | 43 | -- | 59 | -- | 75 | -- | 90 | -- | 95 |
| 17... | 34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | 27 | -- | 36 | -- | 54 | -- | 74 | -- | 93 | -- | 100 |
| FEB | | | | | | | | | | | |
| 01... | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08... | 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 40 | -- | 51 | -- | 66 | -- | 81 | -- | 82 | -- | 92 |
| 19... | 22 | -- | 29 | -- | 45 | -- | 67 | -- | 88 | -- | 97 |
| 27... | 19 | -- | 26 | -- | 40 | -- | 63 | -- | 84 | -- | 96 |
| MAR | | | | | | | | | | | |
| 05... | 19 | -- | 28 | -- | 43 | -- | 63 | -- | 81 | -- | 91 |
| 12... | 32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 22 | 27 | -- | 41 | -- | 60 | -- | 95 | -- | 100 | -- |
| 29... | 44 | 30 | -- | 42 | -- | 59 | -- | 88 | -- | -- | -- |
| APR | | | | | | | | | | | |
| 04... | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 39 | -- | 53 | -- | 76 | -- | 89 | -- | 96 | -- | 99 |
| 19... | 12 | -- | 28 | -- | 37 | -- | 60 | -- | 84 | -- | 96 |
| 27... | 39 | 51 | -- | 65 | -- | 83 | -- | 93 | -- | 100 | -- |
| 27... | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 55 | 49 | -- | 58 | -- | 68 | -- | 93 | -- | 100 | -- |
| 10... | 26 | 34 | -- | 45 | -- | 63 | -- | 85 | -- | 100 | -- |
| 17... | 33 | -- | 47 | -- | 66 | -- | 83 | -- | 94 | -- | 99 |
| 23... | 45 | 73 | -- | 90 | -- | 98 | -- | 100 | -- | -- | -- |
| 25... | 49 | -- | 68 | -- | 88 | -- | 97 | -- | 99 | -- | 100 |
| 25... | 48 | -- | 66 | -- | 87 | -- | 97 | -- | 99 | -- | 100 |
| 28... | 41 | -- | 59 | -- | 80 | -- | 94 | -- | 99 | -- | 100 |
| JUN | | | | | | | | | | | |
| 07... | 44 | -- | 54 | -- | 82 | -- | 93 | -- | 98 | -- | 100 |
| 07... | 43 | -- | 56 | -- | 79 | -- | 94 | -- | 98 | -- | 99 |
| 11... | 28 | -- | 40 | -- | 63 | -- | 84 | -- | 95 | -- | 99 |
| 19... | 40 | 52 | -- | 74 | -- | 88 | -- | 97 | -- | 100 | -- |
| JUL | | | | | | | | | | | |
| 01... | 29 | 42 | -- | 64 | -- | 82 | -- | 96 | -- | 100 | -- |
| 12... | 21 | 35 | -- | 56 | -- | 77 | -- | 94 | -- | 100 | -- |
| AUG | | | | | | | | | | | |
| 01... | 42 | -- | 54 | -- | 71 | -- | 85 | -- | 94 | -- | 98 |
| 21... | 7 | -- | 14 | -- | 30 | -- | 51 | -- | 63 | -- | 69 |
| SEP | | | | | | | | | | | |
| 06... | 82 | 87 | -- | 93 | -- | 98 | -- | 100 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1225 | 13.5 | 281 | 20.0 | 1,320 | 1,000 | -- | -- | -- | -- | -- | -- |
| 25... | 1130 | 10.0 | 1,020 | 10.0 | 28,300 | 77,900 | 5 | 7 | 10 | 17 | 28 | -- |
| 25... | 1500 | 10.0 | 1,100 | 10.0 | 22,000 | 65,300 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 04... | 1355 | 8.0 | 1,070 | 10.0 | 11,400 | 32,900 | -- | -- | -- | -- | -- | 27 |
| 07... | 1310 | 8.0 | 1,500 | 10.0 | 21,600 | 87,500 | -- | -- | -- | -- | -- | -- |
| 13... | 1110 | 6.0 | 592 | 10.0 | 6,380 | 10,200 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 03... | 1447 | 5.5 | 340 | 20.0 | 1,850 | 1,700 | -- | -- | -- | -- | -- | 49 |
| 19... | 1530 | 8.5 | 331 | 20.0 | 147 | 131 | -- | -- | -- | -- | -- | -- |
| 31... | 1520 | 7.0 | 304 | 20.0 | 58 | 48 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 10... | 1315 | -- | 420 | 20.0 | 622 | 705 | -- | -- | -- | -- | -- | -- |
| 16... | 1300 | 7.5 | 420 | 20.0 | 590 | 669 | -- | -- | -- | -- | -- | -- |
| 16... | 1445 | 8.0 | -- | 20.0 | 11,900 | -- | -- | -- | -- | -- | -- | 32 |
| 16... | 1525 | 8.0 | -- | 20.0 | 17,400 | -- | -- | -- | -- | -- | -- | 41 |
| 16... | 1625 | 7.5 | -- | 20.0 | 9,040 | -- | -- | -- | -- | -- | -- | 38 |
| 21... | 1415 | 6.0 | 980 | 10.0 | 18,300 | 48,400 | -- | -- | -- | -- | -- | 30 |
| MAR | | | | | | | | | | | | |
| 07... | 1450 | -- | 1,680 | 10.0 | 26,100 | 118,000 | -- | -- | -- | -- | -- | -- |
| 07... | 1525 | -- | 1,680 | 10.0 | 23,200 | 105,000 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 03... | 1125 | -- | 785 | 10.0 | 6,480 | 13,700 | -- | -- | -- | -- | -- | -- |
| 18... | 1400 | -- | 558 | 10.0 | 2,720 | 4,100 | -- | -- | -- | -- | -- | -- |
| 23... | 1320 | 10.5 | 690 | 10.0 | 1,300 | 2,420 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 14... | 1300 | 12.0 | 750 | 10.0 | 4,170 | 8,440 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 02... | 1445 | 23.0 | 673 | 10.0 | 3,120 | 5,670 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 17... | 1530 | 16.0 | 270 | 10.0 | 1,480 | 1,080 | -- | -- | -- | -- | -- | 25 |
| SEP | | | | | | | | | | | | |
| 23... | 1125 | 12.0 | 199 | 10.0 | 1,290 | 693 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 23... | 1310 | -- | 163 | 10.0 | 56 | 25 | -- | -- | -- | -- | -- | -- |
| 29... | 1310 | 11.0 | 163 | 10.0 | 8,760 | 3,860 | -- | -- | -- | -- | -- | 18 |
| NOV | | | | | | | | | | | | |
| 13... | 1355 | 9.5 | 357 | 10.0 | 2,390 | 2,300 | -- | -- | -- | -- | -- | 11 |
| 20... | 1100 | -- | 1,630 | 10.0 | 56,700 | 250,000 | 7 | 8 | 14 | 23 | 32 | -- |
| 20... | 1535 | 7.5 | 1,770 | 10.0 | 31,500 | 151,000 | 7 | 7 | 13 | 20 | 28 | -- |
| 24... | 0915 | 6.0 | 3,540 | 10.0 | 61,800 | 591,000 | 6 | 6 | 11 | 17 | 25 | -- |
| 24... | 1315 | 6.5 | 3,000 | 10.0 | 40,600 | 329,000 | 6 | 6 | 9 | 15 | 20 | -- |
| 24... | 1625 | 7.0 | -- | 10.0 | 41,800 | -- | 7 | 7 | 10 | 15 | 20 | -- |
| 25... | 1120 | 7.5 | 1,790 | 10.0 | 32,700 | 158,000 | 4 | 5 | 7 | 11 | 15 | -- |
| DEC | | | | | | | | | | | | |
| 11... | 1405 | 7.0 | 576 | 10.0 | 7,160 | 11,100 | -- | -- | -- | -- | -- | -- |
| 23... | 1315 | 7.0 | 837 | 10.0 | 9,170 | 20,700 | -- | -- | -- | -- | -- | -- |
| 30... | 1230 | 6.0 | 824 | 10.0 | 7,290 | 16,200 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 21... | 1220 | 7.5 | 439 | 10.0 | 294 | 348 | -- | -- | -- | -- | -- | -- |
| 27... | 1450 | -- | 658 | 10.0 | 3,180 | 5,650 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 06... | 1125 | 8.0 | 843 | 10.0 | 12,300 | 28,000 | -- | -- | -- | -- | -- | -- |
| 12... | 1330 | 13.5 | 635 | 10.0 | 13,600 | 23,300 | -- | -- | -- | -- | -- | -- |
| 19... | 1525 | 13.5 | 627 | 10.0 | 6,270 | 10,600 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 04... | 1135 | 8.0 | 1,470 | 10.0 | 41,700 | 166,000 | -- | -- | -- | -- | -- | -- |
| 17... | 1445 | 8.0 | 1,240 | 10.0 | 15,200 | 50,900 | -- | -- | -- | -- | -- | -- |
| 26... | 1520 | 7.5 | 926 | 10.0 | 6,220 | 15,600 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | 1130 | 14.5 | 539 | 10.0 | 6,020 | 8,760 | -- | -- | -- | -- | -- | -- |
| 09... | 1545 | 12.5 | 848 | 10.0 | 4,670 | 10,700 | -- | -- | -- | -- | -- | -- |
| 21... | 1445 | 16.0 | 536 | 10.0 | 2,980 | 4,310 | -- | -- | -- | -- | -- | -- |
| 29... | 1240 | 16.0 | 729 | 10.0 | 2,000 | 3,940 | -- | -- | -- | -- | -- | 22 |
| MAY | | | | | | | | | | | | |
| 21... | 1500 | 15.0 | 413 | 20.0 | 2,470 | 2,750 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 03... | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 35 | -- | 51 | -- | 75 | -- | 88 | -- | 96 | -- | 99 |
| 25... | 41 | -- | 56 | -- | 79 | -- | 93 | -- | 98 | -- | 100 |
| NOV | | | | | | | | | | | |
| 04... | -- | 41 | -- | 65 | -- | 86 | -- | 99 | -- | 100 | -- |
| 07... | 34 | -- | 43 | -- | 62 | -- | 81 | -- | 94 | -- | 99 |
| 13... | 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 03... | -- | 60 | -- | 73 | -- | 87 | -- | 99 | -- | 100 | -- |
| 19... | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 10... | 18 | -- | 28 | -- | 46 | -- | 65 | -- | 87 | -- | 96 |
| 16... | 10 | -- | 16 | -- | 29 | -- | 46 | -- | 66 | -- | 87 |
| 16... | -- | 45 | -- | 65 | -- | 83 | -- | 97 | -- | 100 | -- |
| 16... | -- | 50 | -- | 65 | -- | 79 | -- | 96 | -- | 100 | -- |
| 16... | -- | 49 | -- | 68 | -- | 83 | -- | 96 | -- | 100 | -- |
| 21... | -- | 43 | -- | 64 | -- | 82 | -- | 95 | -- | 100 | -- |
| MAR | | | | | | | | | | | |
| 07... | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 03... | 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 14... | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 02... | 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 17... | -- | 32 | -- | 46 | -- | 65 | -- | 97 | -- | 100 | -- |
| SEP | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | 29 | -- | 52 | -- | 75 | -- | 92 | -- | 100 | -- |
| NOV | | | | | | | | | | | |
| 13... | -- | 17 | -- | 33 | -- | 63 | -- | 99 | -- | 100 | -- |
| 20... | 45 | -- | 64 | -- | 81 | -- | 91 | -- | 96 | -- | 99 |
| 20... | 38 | -- | 55 | -- | 75 | -- | 90 | -- | 97 | -- | 99 |
| 24... | 35 | -- | 54 | -- | 75 | -- | 89 | -- | 96 | -- | 99 |
| 24... | 29 | -- | 46 | -- | 69 | -- | 87 | -- | 95 | -- | 99 |
| 24... | 27 | -- | 39 | -- | 55 | -- | 72 | -- | 87 | -- | 97 |
| 25... | 20 | -- | 38 | -- | 58 | -- | 80 | -- | 93 | -- | 99 |
| DEC | | | | | | | | | | | |
| 11... | 10 | -- | 15 | -- | 27 | -- | 53 | -- | 80 | -- | 96 |
| 23... | 19 | -- | 26 | -- | 42 | -- | 70 | -- | 89 | -- | 98 |
| 30... | 14 | -- | 20 | -- | 36 | -- | 69 | -- | 87 | -- | 98 |
| JAN | | | | | | | | | | | |
| 21... | 12 | -- | 15 | -- | 41 | -- | 57 | -- | 79 | -- | 100 |
| 27... | 15 | -- | 22 | -- | 33 | -- | 58 | -- | 77 | -- | 96 |
| FEB | | | | | | | | | | | |
| 06... | 23 | -- | 32 | -- | 52 | -- | 80 | -- | 93 | -- | 99 |
| 12... | 16 | -- | 24 | -- | 43 | -- | 70 | -- | 88 | -- | 97 |
| 19... | 29 | -- | 41 | -- | 62 | -- | 85 | -- | 95 | -- | 99 |
| MAR | | | | | | | | | | | |
| 04... | 30 | -- | 45 | -- | 67 | -- | 86 | -- | 95 | -- | 99 |
| 17... | 22 | -- | 30 | -- | 46 | -- | 68 | -- | 87 | -- | 98 |
| 26... | 18 | -- | 27 | -- | 46 | -- | 70 | -- | 90 | -- | 98 |
| APR | | | | | | | | | | | |
| 02... | 11 | -- | 16 | -- | 30 | -- | 55 | -- | 82 | -- | 96 |
| 09... | 9 | -- | 13 | -- | 22 | -- | 43 | -- | 71 | -- | 92 |
| 21... | 15 | -- | 22 | -- | 36 | -- | 59 | -- | 83 | -- | 94 |
| 29... | -- | 43 | -- | 64 | -- | 98 | -- | 100 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 21... | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| JUN | | | | | | | |
| 12... | 1310 | -- | 428 | 10.0 | 2240 | 2,590 | 15 |
| 26... | 1135 | 22.0 | 382 | 10.0 | 1050 | 1,080 | 20 |
| JUL | | | | | | | |
| 08... | 1105 | 15.0 | 221 | 10.0 | 320 | 191 | 14 |
| AUG | | | | | | | |
| 13... | 1330 | 18.0 | 237 | 10.0 | 157 | 100 | 32 |
| 28... | 1230 | 21.0 | 200 | 10.0 | 172 | 93 | -- |
| SEP | | | | | | | |
| 18... | 0940 | 15.0 | 209 | 10.0 | 207 | 117 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | |
| 19... | 1355 | 0 | 2 | 8 | 30 | 59 | 81 | 85 | 87 | 89 | 100 | -- |
| 19... | 1400 | 0 | 1 | 3 | 13 | 31 | 53 | 69 | 91 | 100 | -- | -- |
| 19... | 1405 | 0 | 0 | 3 | 8 | 19 | 51 | 87 | 97 | 100 | -- | -- |
| AUG | | | | | | | | | | | | |
| 01... | 1330 | 0 | 2 | 13 | 40 | 66 | 78 | 83 | 88 | 90 | 100 | -- |
| 01... | 1335 | 0 | 1 | 3 | 12 | 34 | 66 | 84 | 93 | 98 | 100 | -- |
| 01... | 1340 | 0 | 1 | 4 | 13 | 31 | 52 | 72 | 89 | 100 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | |
| 13... | 1325 | 0 | 0 | 2 | 10 | 26 | 56 | 82 | 98 | 100 | -- | -- |
| 13... | 1330 | 0 | 2 | 13 | 63 | 91 | 95 | 96 | 97 | 98 | 100 | -- |
| 24... | 1215 | 1 | 2 | 4 | 7 | 9 | 14 | 32 | 62 | 95 | 100 | -- |
| 24... | 1220 | 1 | 3 | 9 | 24 | 50 | 78 | 89 | 95 | 100 | -- | -- |
| 24... | 1225 | 1 | 2 | 4 | 8 | 9 | 11 | 22 | 71 | 96 | 100 | -- |
| 24... | 1230 | 1 | 3 | 8 | 19 | 30 | 39 | 51 | 70 | 93 | 100 | -- |
| 24... | 1235 | 1 | 4 | 10 | 16 | 22 | 31 | 48 | 76 | 89 | 100 | -- |
| DEC | | | | | | | | | | | | |
| 11... | 1215 | 0 | 0 | 2 | 7 | 18 | 38 | 55 | 70 | 83 | 100 | -- |
| 11... | 1227 | 0 | 0 | 3 | 10 | 24 | 46 | 63 | 74 | 85 | 100 | -- |
| 11... | 1244 | 1 | 1 | 8 | 22 | 40 | 62 | 76 | 88 | 100 | -- | -- |
| 11... | 1258 | 0 | 1 | 5 | 18 | 36 | 57 | 73 | 90 | 90 | 100 | -- |
| 23... | 1345 | 0 | 0 | 2 | 5 | 10 | 18 | 31 | 51 | 79 | 100 | -- |
| 23... | 1400 | 0 | 1 | 3 | 14 | 41 | 75 | 90 | 97 | 100 | -- | -- |
| 23... | 1405 | 0 | 1 | 5 | 15 | 30 | 47 | 59 | 73 | 82 | 100 | -- |
| 30... | 1500 | 0 | 1 | 6 | 24 | 56 | 78 | 90 | 97 | 100 | -- | -- |
| 30... | 1505 | 0 | 0 | 1 | 2 | 3 | 10 | 30 | 63 | 96 | 100 | -- |
| JAN | | | | | | | | | | | | |
| 21... | 1300 | 0 | 0 | 2 | 9 | 34 | 76 | 94 | 100 | -- | -- | -- |
| 21... | 1346 | 0 | 0 | 1 | 4 | 7 | 9 | 12 | 17 | 19 | 100 | -- |
| FEB | | | | | | | | | | | | |
| 06... | 1215 | 0 | 1 | 5 | 22 | 48 | 62 | 67 | 70 | 72 | 81 | 100 |
| 06... | 1220 | 0 | 1 | 5 | 17 | 38 | 65 | 84 | 99 | 100 | -- | -- |
| 06... | 1225 | 1 | 1 | 5 | 27 | 66 | 93 | 99 | 99 | 100 | -- | -- |
| 19... | 1622 | 1 | 2 | 7 | 16 | 24 | 31 | 37 | 45 | 60 | 75 | 83 |
| APR | | | | | | | | | | | | |
| 02... | 1200 | 0 | 1 | 2 | 3 | 3 | 4 | 6 | 11 | 20 | 55 | 100 |
| 09... | 1200 | 0 | 0 | 3 | 12 | 28 | 48 | 60 | 68 | 76 | 87 | 100 |
| 21... | 1600 | 0 | 0 | 1 | 2 | 4 | 13 | 22 | 40 | 66 | 87 | 98 |

## 14240800 GREEN RIVER ABOVE BEAVER CREEK NEAR KID VALLEY, WA

**LOCATION.**--Lat 46°22′55″, long 122°31′21″, in SE ¼ NW ¼ sec. 2, T.10 N., R.2 E., Cowlitz County, Hydrologic Unit 17080005, on right bank 0.1 mi downstream from logging bridge, 4.5 mi northeast of Kid Valley.

**DRAINAGE AREA.**--129 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--October 1980 through September 1987.

**GAGE.**--Water-stage recorder. Datum of gage is 824.60 ft National Geodetic Vertical Datum of 1929.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Nov. 2, 1980 | 1545 | 25,200 |
| 1982 | Dec. 2, 1981 | 1200 | 4,910 |
| 1983 | Oct. 29, 1982 | 1425 | 2,040 |
| 1984 | Nov. 3, 1983 | 1410 | 2,880 |
| 1985 | June 7, 1985 | 1515 | 1,880 |
| 1986 | Feb. 24, 1986 | 1625 | 2,440 |
| 1987 | Nov. 24, 1986 | 0920 | 2,050 |

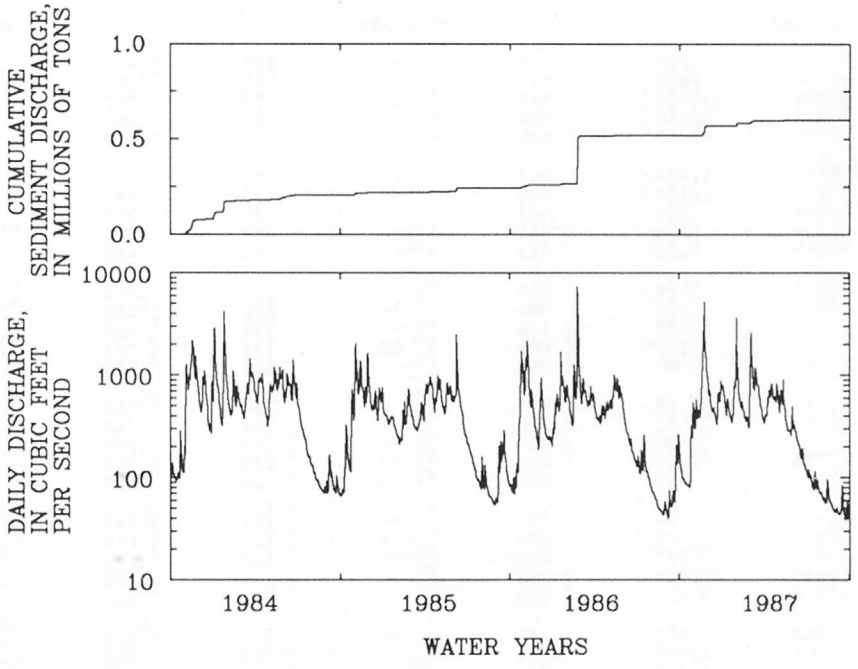


Figure 9.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, Green River above Beaver Creek near Kid Valley, Wash. (14240800).

14240800 GREEN RIVER ABOVE BEAVER CREEK NEAR KID VALLEY, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 109 | --- | 1.0 | 168 | --- | 70 | 632 | --- | 85 |
| 2 | 105 | --- | 1.0 | 225 | --- | 180 | 584 | --- | 70 |
| 3 | 107 | --- | 1.0 | 1,130 | 1,210 | 5,180 | 536 | --- | 50 |
| 4 | 138 | 14 | 5.2 | 1,270 | 1,030 | 3,800 | 475 | --- | 35 |
| 5 | 125 | 15 | 5.1 | 843 | --- | 1,900 | 460 | --- | 35 |
| 6 | 113 | 10 | 3.1 | 920 | --- | 2,200 | 445 | --- | 30 |
| 7 | 109 | 3 | .88 | 955 | --- | 2,300 | 435 | --- | 30 |
| 8 | 107 | 2 | .58 | 850 | --- | 1,800 | 542 | --- | 55 |
| 9 | 103 | 1 | .28 | 722 | --- | 1,300 | 548 | --- | 55 |
| 10 | 99 | 1 | .27 | 850 | --- | 1,800 | 957 | --- | 340 |
| 11 | 97 | 1 | .26 | 1,020 | --- | 2,500 | 906 | --- | 290 |
| 12 | 95 | 7 | 1.8 | 906 | --- | 2,000 | 815 | --- | 230 |
| 13 | 93 | 4 | 1.0 | 1,080 | --- | 2,800 | 976 | --- | 350 |
| 14 | 97 | 4 | 1.0 | 1,240 | --- | 3,400 | 1,090 | --- | 470 |
| 15 | 99 | 1 | .27 | 1,420 | --- | 4,300 | 955 | --- | 340 |
| 16 | 97 | 1 | .26 | 1,810 | --- | 6,400 | 822 | --- | 220 |
| 17 | 109 | 6 | 1.8 | 2,180 | 1,480 | 8,710 | 696 | --- | 140 |
| 18 | 111 | 7 | 2.1 | 2,110 | 1,970 | 11,200 | 608 | --- | 95 |
| 19 | 101 | 6 | 1.6 | 1,770 | 1,830 | 8,750 | 548 | --- | 70 |
| 20 | 103 | 3 | .83 | 1,810 | --- | 1,500 | 475 | --- | 45 |
| 21 | 99 | 4 | 1.1 | 1,370 | --- | 800 | 376 | --- | 20 |
| 22 | 283 | 240 | 241 | 1,060 | 191 | 547 | 331 | --- | 15 |
| 23 | 189 | 189 | 96 | 920 | 216 | 537 | 311 | 14 | 12 |
| 24 | 150 | 51 | 21 | 1,530 | 272 | 1,120 | 288 | --- | 9.0 |
| 25 | 132 | 33 | 12 | 1,330 | 172 | 618 | 331 | --- | 15 |
| 26 | 122 | 23 | 7.6 | 1,110 | 134 | 402 | 323 | --- | 15 |
| 27 | 115 | 37 | 11 | 1,050 | --- | 340 | 292 | --- | 10 |
| 28 | 113 | --- | 10 | 955 | --- | 270 | 270 | --- | 5.0 |
| 29 | 113 | --- | 10 | 829 | --- | 180 | 780 | --- | 450 |
| 30 | 113 | --- | 10 | 722 | --- | 120 | 864 | 291 | 679 |
| 31 | 204 | --- | 140 | --- | --- | --- | 682 | --- | 340 |
| TOTAL | 3,750 | --- | 589.03 | 34,155 | --- | 77,024 | 18,353 | --- | 4,605.0 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 560 | --- | 180 | 696 | 82 | 154 | 492 | --- | 95 |
| 2 | 855 | --- | 680 | 614 | 74 | 123 | 508 | --- | 100 |
| 3 | 2,770 | 1,680 | 15,700 | 542 | 51 | 75 | 502 | --- | 100 |
| 4 | 2,870 | 1,240 | 9,610 | 486 | --- | 65 | 460 | --- | 90 |
| 5 | 2,100 | --- | 4,600 | 460 | --- | 40 | 430 | --- | 85 |
| 6 | 1,440 | --- | 1,800 | 455 | 25 | 31 | 420 | 75 | 85 |
| 7 | 1,210 | --- | 1,100 | 420 | --- | 25 | 394 | 41 | 44 |
| 8 | 990 | --- | 660 | 407 | --- | 20 | 380 | 13 | 13 |
| 9 | 836 | --- | 390 | 445 | --- | 30 | 394 | --- | 15 |
| 10 | 794 | --- | 350 | 425 | --- | 25 | 480 | --- | 20 |
| 11 | 794 | --- | 350 | 445 | --- | 30 | 502 | --- | 20 |
| 12 | 722 | --- | 270 | 884 | --- | 220 | 566 | --- | 25 |
| 13 | 638 | --- | 180 | 1,100 | --- | 350 | 602 | --- | 30 |
| 14 | 554 | --- | 120 | 983 | 95 | 252 | 741 | --- | 45 |
| 15 | 497 | --- | 80 | 836 | --- | 200 | 829 | --- | 60 |
| 16 | 460 | --- | 60 | 715 | --- | 150 | 689 | --- | 35 |
| 17 | 398 | --- | 35 | 602 | --- | 100 | 702 | --- | 40 |
| 18 | 362 | --- | 20 | 524 | --- | 75 | 656 | --- | 35 |
| 19 | 335 | 15 | 14 | 497 | --- | 70 | 696 | --- | 40 |
| 20 | 323 | --- | 10 | 590 | --- | 95 | 937 | --- | 90 |
| 21 | 323 | --- | 10 | 787 | --- | 170 | 1,440 | 308 | 1,200 |
| 22 | 444 | --- | 50 | 728 | --- | 150 | 1,210 | --- | 350 |
| 23 | 1,030 | --- | 670 | 656 | --- | 130 | 1,150 | --- | 250 |
| 24 | 4,180 | 2,530 | 28,600 | 663 | --- | 140 | 1,030 | --- | 150 |
| 25 | 3,980 | 1,710 | 18,400 | 626 | --- | 130 | 962 | --- | 100 |
| 26 | 2,460 | 742 | 4,930 | 572 | --- | 110 | 1,050 | --- | 150 |
| 27 | 1,820 | 306 | 1,500 | 514 | --- | 95 | 962 | --- | 100 |
| 28 | 1,370 | 272 | 1,010 | 514 | --- | 95 | 982 | --- | 100 |
| 29 | 1,110 | 172 | 515 | 486 | --- | 90 | 927 | --- | 85 |
| 30 | 934 | 140 | 353 | --- | --- | --- | 822 | --- | 60 |
| 31 | 794 | 144 | 309 | --- | --- | --- | 734 | --- | 40 |
| TOTAL | 37,953 | --- | 92,556 | 17,672 | --- | 3,240 | 22,649 | --- | 3,652 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 676 | --- | 35 | 486 | --- | 15 | 644 | 174 | 303 |
| 2 | 656 | --- | 35 | 722 | --- | 100 | 584 | 147 | 232 |
| 3 | 590 | --- | 25 | 815 | --- | 200 | 542 | --- | 100 |
| 4 | 548 | --- | 25 | 715 | --- | 100 | 602 | --- | 250 |
| 5 | 572 | --- | 25 | 734 | --- | 100 | 682 | --- | 450 |
| 6 | 530 | --- | 20 | 767 | --- | 150 | 608 | --- | 250 |
| 7 | 736 | --- | 40 | 676 | 42 | 77 | 845 | --- | 800 |
| 8 | 885 | --- | 70 | 741 | --- | 100 | 1,030 | --- | 1,000 |
| 9 | 850 | 28 | 64 | 774 | --- | 150 | 998 | --- | 1,000 |
| 10 | 934 | 12 | 30 | 722 | --- | 100 | 913 | --- | 850 |
| 11 | 906 | 11 | 27 | 919 | --- | 300 | 836 | --- | 700 |
| 12 | 906 | 11 | 27 | 1,200 | --- | 800 | 794 | 62 | 133 |
| 13 | 850 | 8 | 18 | 1,090 | --- | 500 | 822 | 275 | 610 |
| 14 | 850 | --- | 20 | 1,100 | --- | 500 | 794 | 142 | 304 |
| 15 | 1,040 | --- | 100 | 983 | 75 | 199 | 808 | 239 | 521 |
| 16 | 969 | --- | 80 | 913 | 55 | 136 | 715 | 118 | 228 |
| 17 | 840 | --- | 55 | 787 | --- | 70 | 578 | 72 | 112 |
| 18 | 680 | --- | 35 | 708 | --- | 45 | 572 | 84 | 130 |
| 19 | 560 | --- | 25 | 760 | --- | 60 | 566 | 76 | 116 |
| 20 | 520 | 13 | 18 | 892 | --- | 100 | 761 | 115 | 250 |
| 21 | 492 | 6 | 8.0 | 774 | --- | 65 | 1,400 | 571 | 2,160 |
| 22 | 460 | 6 | 7.5 | 866 | --- | 100 | 1,090 | 132 | 388 |
| 23 | 455 | --- | 7.0 | 1,200 | --- | 800 | 927 | 103 | 258 |
| 24 | 407 | --- | 4.5 | 1,050 | --- | 700 | 899 | 102 | 248 |
| 25 | 394 | --- | 3.0 | 941 | --- | 550 | 801 | 84 | 182 |
| 26 | 358 | --- | 3.0 | 976 | --- | 800 | 760 | 58 | 119 |
| 27 | 319 | --- | 2.5 | 934 | --- | 550 | 682 | 48 | 88 |
| 28 | 327 | --- | 2.5 | 934 | --- | 550 | 596 | 35 | 56 |
| 29 | 394 | --- | 3.0 | 1,070 | --- | 2,000 | 829 | 82 | 184 |
| 30 | 389 | --- | 3.0 | 1,130 | --- | 2,500 | 670 | 55 | 99 |
| 31 | --- | --- | --- | 850 | --- | 900 | --- | --- | --- |
| TOTAL | 19,093 | --- | 818.0 | 27,229 | --- | 13,317 | 23,348 | --- | 12,121 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 536 | 72 | 104 | 132 | --- | 6.5 | 92 | 35 | 8.7 |
| 2 | 514 | 42 | 58 | 130 | --- | 6.0 | 84 | 3 | .68 |
| 3 | 480 | 28 | 36 | 120 | --- | 5.0 | 75 | 6 | 1.2 |
| 4 | 465 | 34 | 43 | 113 | --- | 4.5 | 71 | 3 | .58 |
| 5 | 445 | 34 | 41 | 111 | --- | 4.0 | 76 | 8 | 1.6 |
| 6 | 407 | 28 | 31 | 113 | --- | 4.0 | 157 | 82 | 35 |
| 7 | 348 | 49 | 46 | 105 | --- | 3.0 | 148 | 21 | 8.4 |
| 8 | 331 | 46 | 41 | 101 | --- | 2.5 | 165 | 29 | 13 |
| 9 | 319 | 47 | 40 | 97 | --- | 2.0 | 132 | 77 | 27 |
| 10 | 315 | 43 | 37 | 95 | --- | 2.0 | 109 | 18 | 5.3 |
| 11 | 295 | 21 | 17 | 93 | --- | 2.0 | 101 | 9 | 2.5 |
| 12 | 284 | 21 | 16 | 93 | --- | 1.5 | 113 | 6 | 1.8 |
| 13 | 278 | 13 | 9.8 | 95 | --- | 1.0 | 97 | 4 | 1.0 |
| 14 | 264 | 6 | 4.3 | 90 | 4 | .97 | 87 | 4 | .94 |
| 15 | 253 | 6 | 4.1 | 85 | 8 | 1.8 | 81 | 4 | .87 |
| 16 | 250 | 76 | 51 | 84 | 3 | .68 | 76 | 4 | .82 |
| 17 | 242 | 17 | 11 | 82 | 3 | .66 | 76 | 4 | .82 |
| 18 | 232 | 11 | 6.9 | 81 | 3 | .66 | 75 | 7 | 1.4 |
| 19 | 210 | 11 | 6.2 | 79 | 4 | .85 | 73 | 4 | .79 |
| 20 | 195 | 10 | 5.3 | 78 | 3 | .63 | 72 | 7 | 1.4 |
| 21 | 180 | 18 | 8.7 | 76 | 3 | .62 | 71 | 3 | .58 |
| 22 | 168 | 6 | 2.7 | 75 | 3 | .61 | 95 | 28 | 7.2 |
| 23 | 162 | 8 | 3.5 | 75 | 4 | .81 | 103 | 7 | 1.9 |
| 24 | 160 | 21 | 9.1 | 75 | 3 | .61 | 90 | 3 | .73 |
| 25 | 160 | 22 | 9.5 | 73 | 4 | .79 | 82 | 3 | .66 |
| 26 | 162 | 25 | 11 | 71 | 6 | 1.2 | 76 | 3 | .62 |
| 27 | 150 | --- | 9.5 | 71 | 17 | 3.3 | 73 | 3 | .59 |
| 28 | 142 | --- | 8.5 | 81 | 4 | .87 | 71 | 2 | .38 |
| 29 | 138 | --- | 8.5 | 73 | 28 | 5.5 | 68 | 3 | .55 |
| 30 | 132 | --- | 7.5 | 71 | 6 | 1.2 | 66 | 2 | .36 |
| 31 | 130 | --- | 7.0 | 73 | 11 | 2.2 | --- | --- | --- |
| TOTAL | 8,347 | --- | 694.1 | 2,791 | --- | 67.96 | 2,755 | --- | 127.37 |
| YEAR | 218,095 | | 208,811.46 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 68 | 2 | 0.37 | 421 | 146 | 314 | 1,090 | --- | 100 |
| 2 | 68 | 2 | .37 | 1,700 | 981 | 4,500 | 868 | --- | 50 |
| 3 | 67 | 2 | .36 | 2,020 | 367 | 2,000 | 720 | 15 | 29 |
| 4 | 69 | 2 | .37 | 1,670 | 200 | 902 | 637 | 7 | 12 |
| 5 | 76 | 2 | .41 | 1,230 | 160 | 531 | 564 | 4 | 6.1 |
| 6 | 72 | 4 | .78 | 974 | 37 | 97 | 501 | 6 | 8.1 |
| 7 | 73 | 3 | .59 | 843 | 24 | 55 | 465 | 5 | 6.3 |
| 8 | 72 | 7 | 1.4 | 710 | 24 | 46 | 506 | 5 | 6.8 |
| 9 | 90 | 18 | 4.4 | 652 | 16 | 28 | 485 | 5 | 6.5 |
| 10 | 116 | 10 | 3.1 | 708 | 32 | 61 | 503 | 4 | 5.4 |
| 11 | 134 | 10 | 3.6 | 789 | 36 | 77 | 453 | 2 | 2.4 |
| 12 | 140 | 14 | 5.3 | 983 | 65 | 173 | 490 | 4 | 5.3 |
| 13 | 328 | 71 | 63 | 1,380 | 139 | 518 | 527 | 5 | 7.1 |
| 14 | 294 | 13 | 10 | 1,320 | 68 | 242 | 621 | 15 | 25 |
| 15 | 231 | 5 | 3.1 | 1,060 | 45 | 129 | 700 | 13 | 25 |
| 16 | 185 | 1 | .50 | 874 | 24 | 57 | 585 | 7 | 11 |
| 17 | 160 | 1 | .43 | 739 | 15 | 30 | 512 | 8 | 11 |
| 18 | 144 | 1 | .39 | 743 | 17 | 34 | 438 | --- | 10 |
| 19 | 135 | 1 | .36 | 666 | 14 | 25 | 399 | --- | 8.0 |
| 20 | 132 | 1 | .36 | 623 | 12 | 20 | 366 | --- | 6.0 |
| 21 | 125 | 3 | 1.0 | 564 | 10 | 15 | 360 | --- | 6.0 |
| 22 | 118 | 4 | 1.3 | 498 | 7 | 9.4 | 554 | --- | 22 |
| 23 | 115 | 3 | .93 | 722 | 17 | 33 | 718 | --- | 57 |
| 24 | 131 | 5 | 1.8 | 767 | 16 | 33 | 748 | --- | 70 |
| 25 | 458 | 150 | 340 | 635 | 13 | 22 | 653 | --- | 40 |
| 26 | 724 | 90 | 176 | 538 | 19 | 28 | 591 | --- | 33 |
| 27 | 579 | 30 | 47 | 724 | 26 | 51 | 591 | --- | 33 |
| 28 | 552 | 20 | 30 | 1,510 | 93 | 436 | 546 | --- | 25 |
| 29 | 448 | 10 | 12 | 1,630 | 115 | 506 | 594 | --- | 34 |
| 30 | 399 | 10 | 11 | 1,380 | 33 | 123 | 751 | --- | 77 |
| 31 | 367 | 10 | 9.9 | --- | --- | --- | 605 | --- | 39 |
| TOTAL | 6,670 | --- | 730.12 | 29,073 | --- | 11,095.4 | 18,141 | --- | 777.0 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 495 | --- | 21 | 252 | 4 | 2.7 | 478 | 11 | 14 |
| 2 | 440 | --- | 14 | 257 | 1 | .69 | 429 | 14 | 16 |
| 3 | 423 | --- | 12 | 232 | 1 | .63 | 398 | 10 | 11 |
| 4 | 420 | --- | 12 | 211 | --- | 1.0 | 409 | 13 | 14 |
| 5 | 411 | --- | 11 | 244 | --- | 2.0 | 382 | 9 | 9.3 |
| 6 | 405 | --- | 12 | 232 | --- | 2.0 | 361 | 8 | 7.8 |
| 7 | 409 | --- | 12 | 237 | --- | 2.0 | 337 | 6 | 5.5 |
| 8 | 411 | --- | 12 | 227 | --- | 1.5 | 320 | 8 | 6.9 |
| 9 | 392 | --- | 10 | 235 | --- | 2.0 | 312 | 10 | 8.4 |
| 10 | 367 | 9 | 8.9 | 232 | --- | 2.0 | 308 | 6 | 5.0 |
| 11 | 354 | --- | 8.0 | 380 | --- | 7.0 | 301 | --- | 5.0 |
| 12 | 341 | --- | 7.0 | 453 | 8 | 9.8 | 307 | 11 | 9.1 |
| 13 | 331 | --- | 6.0 | 313 | 8 | 6.8 | 298 | 4 | 3.2 |
| 14 | 334 | --- | 6.0 | 352 | 15 | 14 | 292 | 2 | 1.6 |
| 15 | 368 | --- | 8.0 | 545 | 14 | 21 | 289 | 3 | 2.3 |
| 16 | 351 | --- | 7.0 | 430 | 5 | 5.8 | 295 | 2 | 1.6 |
| 17 | 374 | 8 | 8.1 | 371 | 5 | 5.0 | 323 | 3 | 2.6 |
| 18 | 393 | --- | 10 | 332 | 8 | 7.2 | 331 | 3 | 2.7 |
| 19 | 387 | --- | 10 | 336 | 7 | 6.4 | 338 | 4 | 3.7 |
| 20 | 395 | --- | 10 | 387 | 8 | 8.4 | 363 | 5 | 4.9 |
| 21 | 392 | --- | 10 | 399 | 10 | 11 | 386 | 9 | 9.4 |
| 22 | 375 | --- | 8.0 | 613 | 17 | 28 | 370 | 8 | 8.0 |
| 23 | 361 | --- | 7.0 | 616 | 15 | 25 | 531 | 27 | 45 |
| 24 | 342 | --- | 6.0 | 730 | 34 | 67 | 540 | 13 | 19 |
| 25 | 323 | --- | 5.0 | 710 | 26 | 50 | 478 | 8 | 10 |
| 26 | 310 | --- | 4.0 | 618 | 21 | 35 | 436 | 8 | 9.4 |
| 27 | 302 | --- | 4.0 | 543 | 12 | 18 | 422 | 7 | 8.0 |
| 28 | 295 | --- | 4.0 | 493 | 12 | 16 | 385 | 4 | 4.2 |
| 29 | 283 | --- | 3.0 | --- | --- | --- | 357 | 3 | 2.9 |
| 30 | 255 | --- | 2.0 | --- | --- | --- | 434 | 13 | 18 |
| 31 | 252 | --- | 2.0 | --- | --- | --- | 609 | 26 | 43 |
| TOTAL | 11,291 | --- | 260.0 | 10,980 | --- | 357.92 | 11,819 | --- | 311.5 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 694 | 28 | 52 | 731 | --- | 53 | 618 | 23 | 38 |
| 2 | 742 | 30 | 60 | 831 | --- | 67 | 611 | 14 | 23 |
| 3 | 826 | 46 | 103 | 914 | --- | 50 | 557 | 18 | 27 |
| 4 | 748 | 21 | 42 | 771 | --- | 44 | 629 | 32 | 54 |
| 5 | 673 | 16 | 29 | 664 | --- | 36 | 627 | 20 | 34 |
| 6 | 670 | 28 | 51 | 576 | 17 | 26 | 640 | 321 | 658 |
| 7 | 735 | 30 | 60 | 535 | 13 | 19 | 2,480 | 2,030 | 13,600 |
| 8 | 813 | 45 | 99 | 513 | 10 | 14 | 1,740 | 360 | 1,690 |
| 9 | 847 | 60 | 137 | 479 | 11 | 14 | 1,170 | 160 | 505 |
| 10 | 818 | 169 | 373 | 498 | 10 | 13 | 948 | 90 | 230 |
| 11 | 955 | 128 | 330 | 489 | 10 | 13 | 769 | 60 | 125 |
| 12 | 963 | 84 | 218 | 438 | 10 | 12 | 711 | --- | 67 |
| 13 | 833 | 53 | 119 | 415 | 13 | 15 | 675 | --- | 55 |
| 14 | 802 | 49 | 106 | 493 | 17 | 23 | 589 | --- | 39 |
| 15 | 814 | 49 | 108 | 442 | 12 | 14 | 584 | --- | 39 |
| 16 | 826 | 52 | 116 | 534 | 170 | 245 | 521 | 25 | 35 |
| 17 | 689 | 40 | 74 | 813 | 180 | 395 | 468 | --- | 28 |
| 18 | 607 | 33 | 54 | 846 | 84 | 192 | 468 | 20 | 25 |
| 19 | 564 | 27 | 41 | 804 | 67 | 145 | 456 | 26 | 32 |
| 20 | 499 | 27 | 36 | 706 | 61 | 116 | 429 | 17 | 20 |
| 21 | 439 | 26 | 31 | 646 | 49 | 85 | 393 | 17 | 18 |
| 22 | 435 | 24 | 28 | 682 | 50 | 92 | 354 | 16 | 15 |
| 23 | 600 | 30 | 49 | 720 | 72 | 140 | 314 | 12 | 10 |
| 24 | 600 | 22 | 36 | 766 | --- | 85 | 282 | 9 | 6.9 |
| 25 | 590 | 23 | 37 | 791 | --- | 84 | 262 | 10 | 7.1 |
| 26 | 554 | --- | 43 | 647 | --- | 44 | 258 | 9 | 6.3 |
| 27 | 750 | 37 | 75 | 588 | --- | 33 | 261 | 9 | 6.3 |
| 28 | 980 | 24 | 64 | 564 | --- | 27 | 250 | 4 | 2.7 |
| 29 | 891 | 28 | 67 | 629 | --- | 42 | 238 | 4 | 2.6 |
| 30 | 781 | --- | 55 | 632 | --- | 42 | 228 | 4 | 2.5 |
| 31 | --- | --- | --- | 552 | 21 | 31 | --- | --- | --- |
| TOTAL | 21,738 | --- | 2,693 | 19,709 | --- | 2,211 | 18,530 | --- | 17,401.4 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 213 | 5 | 2.9 | 160 | 54 | 23 | 58 | 2 | 0.31 |
| 2 | 211 | 5 | 2.8 | 111 | 22 | 6.6 | 61 | 4 | .66 |
| 3 | 213 | 8 | 4.6 | 92 | 8 | 2.0 | 57 | 5 | .77 |
| 4 | 207 | 4 | 2.2 | 84 | 8 | 1.8 | 57 | 1 | .15 |
| 5 | 196 | 6 | 3.2 | 80 | 4 | .86 | 81 | 5 | 1.1 |
| 6 | 184 | 2 | .99 | 77 | 5 | 1.0 | 203 | 53 | 32 |
| 7 | 174 | 4 | 1.9 | 81 | 6 | 1.3 | 146 | 30 | 12 |
| 8 | 168 | 4 | 1.8 | 132 | 7 | 2.5 | 113 | 8 | 2.4 |
| 9 | 165 | 4 | 1.8 | 104 | 4 | 1.1 | 132 | 8 | 2.9 |
| 10 | 159 | 2 | .86 | 95 | 5 | 1.3 | 224 | 39 | 28 |
| 11 | 153 | 4 | 1.7 | 87 | 6 | 1.4 | 166 | 4 | 1.8 |
| 12 | 144 | 2 | .78 | 81 | 5 | 1.1 | 144 | 3 | 1.2 |
| 13 | 138 | 3 | 1.1 | 77 | 4 | .83 | 162 | 1 | .44 |
| 14 | 132 | 3 | 1.1 | 73 | 9 | 1.8 | 193 | 6 | 3.1 |
| 15 | 127 | 4 | 1.4 | 70 | 2 | .38 | 206 | 5 | 2.8 |
| 16 | 123 | 4 | 1.3 | 68 | 4 | .73 | 171 | 6 | 2.8 |
| 17 | 120 | 4 | 1.3 | 66 | 10 | 1.8 | 287 | 58 | 48 |
| 18 | 118 | 5 | 1.6 | 64 | 2 | .35 | 261 | 30 | 21 |
| 19 | 106 | 4 | 1.1 | 64 | 1 | .17 | 196 | --- | 12 |
| 20 | 100 | 2 | .54 | 64 | 1 | .17 | 164 | --- | 6.5 |
| 21 | 96 | 2 | .52 | 63 | 3 | .51 | 146 | --- | 4.2 |
| 22 | 95 | 5 | 1.3 | 62 | 3 | .50 | 133 | --- | 2.9 |
| 23 | 93 | 7 | 1.8 | 60 | 4 | .65 | 120 | --- | 1.9 |
| 24 | 96 | 6 | 1.6 | 58 | 2 | .31 | 111 | --- | 1.4 |
| 25 | 93 | 8 | 2.0 | 58 | 6 | .94 | 105 | --- | 1.1 |
| 26 | 87 | 7 | 1.6 | 56 | 4 | .60 | 97 | --- | .85 |
| 27 | 83 | 8 | 1.8 | 55 | 1 | .15 | 94 | --- | .85 |
| 28 | 83 | 8 | 1.8 | 56 | 1 | .15 | 89 | --- | .95 |
| 29 | 80 | 8 | 1.7 | 55 | 4 | .59 | 85 | --- | .95 |
| 30 | 78 | 6 | 1.3 | 54 | 1 | .15 | 82 | --- | .95 |
| 31 | 84 | 6 | 1.4 | 62 | 5 | .84 | --- | --- | --- |
| TOTAL | 4,119 | --- | 51.79 | 2,369 | --- | 55.58 | 4,144 | --- | 195.98 |
| YEAR | 158,583 | | 36,140.69 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 86 | 3 | 0.70 | 642 | 168 | 308 | 189 | --- | 2.0 |
| 2 | 83 | --- | .40 | 778 | 372 | 781 | 211 | --- | 3.0 |
| 3 | 84 | --- | .50 | 828 | 199 | 445 | 406 | --- | 19 |
| 4 | 78 | --- | .60 | 1,450 | 219 | 857 | 421 | --- | 21 |
| 5 | 72 | --- | .40 | 1,200 | 101 | 327 | 462 | --- | 28 |
| 6 | 72 | --- | .40 | 1,910 | 326 | 1,680 | 780 | --- | 130 |
| 7 | 99 | 6 | 1.6 | 2,160 | 367 | 2,140 | 929 | --- | 230 |
| 8 | 81 | 2 | .44 | 1,780 | 169 | 812 | 800 | --- | 90 |
| 9 | 72 | 1 | .19 | 1,400 | 95 | 359 | 640 | 12 | 21 |
| 10 | 69 | 1 | .19 | 1,080 | 58 | 169 | 528 | --- | 22 |
| 11 | 84 | 3 | .68 | 831 | 25 | 56 | 450 | --- | 20 |
| 12 | 100 | 7 | 1.9 | 672 | --- | 45 | 392 | --- | 18 |
| 13 | 89 | 3 | .72 | 571 | --- | 29 | 351 | --- | 13 |
| 14 | 81 | 6 | 1.3 | 492 | --- | 25 | 321 | --- | 10 |
| 15 | 106 | 14 | 4.0 | 566 | 25 | 38 | 295 | --- | 8.0 |
| 16 | 135 | 23 | 9.1 | 712 | 39 | 75 | 277 | --- | 6.0 |
| 17 | 132 | 19 | 6.8 | 636 | 16 | 27 | 263 | --- | 5.0 |
| 18 | 113 | 3 | .92 | 556 | 13 | 20 | 257 | --- | 5.0 |
| 19 | 160 | 78 | 42 | 509 | 10 | 14 | 250 | --- | 5.0 |
| 20 | 324 | 214 | 187 | 465 | 10 | 13 | 246 | --- | 4.0 |
| 21 | 351 | 56 | 53 | 410 | --- | 8.0 | 240 | --- | 4.0 |
| 22 | 415 | 190 | 213 | 369 | --- | 6.0 | 235 | --- | 4.0 |
| 23 | 680 | 252 | 463 | 327 | --- | 5.0 | 236 | --- | 4.0 |
| 24 | 932 | 218 | 619 | 310 | --- | 5.0 | 246 | --- | 4.0 |
| 25 | 1,720 | 815 | 4,090 | 296 | --- | 3.0 | 252 | --- | 5.0 |
| 26 | 1,220 | 232 | 764 | 267 | --- | 2.0 | 247 | --- | 4.0 |
| 27 | 1,070 | 175 | 539 | 254 | --- | 2.0 | 239 | --- | 4.0 |
| 28 | 1,310 | 161 | 611 | 239 | --- | 1.0 | 226 | --- | 3.0 |
| 29 | 936 | 70 | 177 | 220 | --- | 1.0 | 220 | --- | 3.0 |
| 30 | 788 | 53 | 113 | 205 | --- | 1.0 | 211 | --- | 3.0 |
| 31 | 668 | 30 | 54 | --- | --- | --- | 202 | --- | 2.0 |
| TOTAL | 12,210 | --- | 7,955.84 | 22,135 | --- | 8,254.0 | 11,022 | --- | 700.0 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 290 | --- | 7.0 | 796 | 67 | 144 | 908 | --- | 180 |
| 2 | 266 | 8 | 5.7 | 731 | 49 | 97 | 746 | --- | 95 |
| 3 | 347 | 8 | 7.5 | 654 | 32 | 57 | 635 | --- | 50 |
| 4 | 271 | 1 | .73 | 595 | 21 | 34 | 556 | --- | 30 |
| 5 | 326 | 12 | 15 | 588 | 18 | 29 | 529 | --- | 26 |
| 6 | 535 | 32 | 50 | 522 | 18 | 25 | 540 | --- | 28 |
| 7 | 412 | 6 | 6.2 | 471 | 14 | 18 | 757 | --- | 100 |
| 8 | 452 | 25 | 33 | 430 | 11 | 13 | 935 | --- | 200 |
| 9 | 549 | 11 | 16 | 400 | 10 | 11 | 819 | --- | 130 |
| 10 | 644 | 22 | 38 | 374 | 8 | 8.1 | 680 | 32 | 59 |
| 11 | 652 | 23 | 40 | 353 | 7 | 6.7 | 703 | 31 | 59 |
| 12 | 567 | 12 | 18 | 332 | 8 | 7.2 | 708 | 25 | 48 |
| 13 | 510 | 8 | 11 | 322 | 7 | 6.1 | 676 | 25 | 46 |
| 14 | 469 | 5 | 6.3 | 354 | 20 | 22 | 661 | 24 | 43 |
| 15 | 441 | 4 | 4.3 | 761 | 102 | 210 | 590 | 20 | 32 |
| 16 | 479 | 15 | 21 | 1,260 | 209 | 744 | 539 | 19 | 28 |
| 17 | 527 | --- | 36 | 948 | 43 | 110 | 493 | 22 | 29 |
| 18 | 1,180 | --- | 1,300 | 768 | 20 | 41 | 536 | 19 | 27 |
| 19 | 1,690 | 506 | 2,510 | 655 | 14 | 25 | 555 | 19 | 28 |
| 20 | 1,110 | 164 | 492 | 589 | 20 | 32 | 513 | 23 | 32 |
| 21 | 876 | 87 | 206 | 596 | 16 | 29 | 557 | 24 | 36 |
| 22 | 808 | 65 | 142 | 957 | 63 | 200 | 521 | 14 | 20 |
| 23 | 957 | 76 | 196 | 7,310 | 5,890 | 167,000 | 529 | 14 | 22 |
| 24 | 835 | 54 | 122 | 5,800 | 3,710 | 67,700 | 779 | 72 | 151 |
| 25 | 729 | 36 | 71 | 2,650 | 1,250 | 8,940 | 658 | 23 | 41 |
| 26 | 638 | 29 | 50 | 2,050 | 519 | 2,870 | 652 | 19 | 33 |
| 27 | 597 | 26 | 42 | 1,390 | 232 | 871 | 614 | 19 | 31 |
| 28 | 548 | 16 | 24 | 1,080 | --- | 330 | 608 | 21 | 34 |
| 29 | 546 | 18 | 27 | --- | --- | --- | 566 | 16 | 24 |
| 30 | 738 | 46 | 92 | --- | --- | --- | 666 | 42 | 76 |
| 31 | 731 | 40 | 79 | --- | --- | --- | 580 | 27 | 42 |
| TOTAL | 19,720 | --- | 5,668.73 | 33,736 | --- | 249,580.1 | 19,809 | --- | 1,780 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 526 | 15 | 21 | 457 | 8 | 9.9 | 530 | 52 | 74 |
| 2 | 508 | 14 | 19 | 493 | 10 | 13 | 485 | 33 | 43 |
| 3 | 454 | 14 | 17 | 504 | 9 | 12 | 450 | 23 | 28 |
| 4 | 436 | 12 | 14 | 508 | 9 | 12 | 406 | 19 | 21 |
| 5 | 406 | 12 | 13 | 577 | 13 | 20 | 362 | 16 | 16 |
| 6 | 378 | 11 | 11 | 519 | 10 | 14 | 341 | 13 | 12 |
| 7 | 370 | 10 | 10 | 478 | 7 | 9.0 | 342 | 12 | 11 |
| 8 | 380 | 8 | 8.2 | 471 | 8 | 10 | 305 | 9 | 7.4 |
| 9 | 379 | 20 | 20 | 486 | 10 | 13 | 276 | 8 | 6.0 |
| 10 | 362 | 8 | 7.8 | 562 | 14 | 21 | 274 | 8 | 5.9 |
| 11 | 373 | 17 | 17 | 625 | 17 | 29 | 276 | 7 | 5.2 |
| 12 | 398 | 14 | 15 | 614 | 13 | 22 | 271 | 8 | 5.9 |
| 13 | 369 | 10 | 10 | 1,010 | 158 | 467 | 251 | 6 | 4.1 |
| 14 | 334 | 9 | 8.1 | 1,010 | 90 | 245 | 244 | 7 | 4.6 |
| 15 | 351 | 6 | 5.7 | 881 | 44 | 105 | 230 | 7 | 4.3 |
| 16 | 365 | 3 | 3.0 | 774 | 30 | 63 | 210 | 6 | 3.4 |
| 17 | 430 | 9 | 10 | 700 | 22 | 42 | 207 | 6 | 3.4 |
| 18 | 503 | 11 | 15 | 713 | 23 | 44 | 237 | 11 | 7.5 |
| 19 | 432 | 6 | 7.0 | 738 | 26 | 52 | 239 | 11 | 7.9 |
| 20 | 412 | 4 | 4.4 | 933 | 109 | 275 | 197 | 4 | 2.1 |
| 21 | 432 | 10 | 12 | 864 | 54 | 126 | 188 | 4 | 2.0 |
| 22 | 493 | 20 | 27 | 763 | 31 | 64 | 176 | 4 | 1.9 |
| 23 | 427 | 12 | 14 | 643 | 17 | 30 | 174 | 5 | 2.3 |
| 24 | 379 | 8 | 8.2 | 588 | 14 | 22 | 172 | 4 | 1.9 |
| 25 | 417 | 9 | 10 | 669 | 28 | 51 | 165 | 3 | 1.3 |
| 26 | 413 | 7 | 7.8 | 781 | 58 | 122 | 156 | 3 | 1.3 |
| 27 | 481 | 12 | 16 | 716 | 37 | 72 | 147 | 2 | .79 |
| 28 | 548 | 19 | 28 | 655 | 41 | 73 | 142 | 4 | 1.5 |
| 29 | 531 | 13 | 19 | 666 | 27 | 49 | 146 | 3 | 1.2 |
| 30 | 482 | 10 | 13 | 630 | 43 | 73 | 138 | 2 | .75 |
| 31 | --- | --- | --- | 580 | 66 | 103 | --- | --- | --- |
| TOTAL | 12,769 | --- | 391.2 | 20,608 | --- | 2,262.9 | 7,737 | --- | 287.64 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 129 | 2 | 0.70 | 81 | 1 | 0.22 | 52 | 1 | 0.14 |
| 2 | 129 | 6 | 2.1 | 78 | 1 | .21 | 49 | --- | .10 |
| 3 | 128 | 4 | 1.4 | 74 | 1 | .20 | 48 | --- | .10 |
| 4 | 161 | 8 | 3.5 | 72 | 1 | .19 | 46 | --- | .10 |
| 5 | 135 | 3 | 1.1 | 72 | 2 | .39 | 43 | --- | .10 |
| 6 | 120 | 3 | .97 | 71 | 1 | .19 | 43 | --- | .10 |
| 7 | 113 | 3 | .92 | 69 | 1 | .19 | 40 | --- | .10 |
| 8 | 111 | 5 | 1.5 | 67 | 1 | .18 | 43 | --- | .10 |
| 9 | 109 | 5 | 1.5 | 66 | --- | .20 | 74 | --- | .10 |
| 10 | 150 | 16 | 7.9 | 64 | 1 | .17 | 63 | --- | .10 |
| 11 | 183 | 14 | 7.7 | 62 | 2 | .33 | 57 | 1 | .15 |
| 12 | 141 | 3 | 1.1 | 61 | 3 | .49 | 53 | --- | .10 |
| 13 | 127 | 3 | 1.0 | 60 | 1 | .16 | 52 | 1 | .14 |
| 14 | 116 | 6 | 1.9 | 57 | 2 | .31 | 52 | --- | .10 |
| 15 | 125 | 11 | 3.7 | 52 | 1 | .14 | 52 | 1 | .14 |
| 16 | 243 | 24 | 16 | 51 | 1 | .14 | 57 | 1 | .15 |
| 17 | 261 | 30 | 23 | 51 | 1 | .14 | 59 | 1 | .16 |
| 18 | 187 | 4 | 2.0 | 49 | --- | .10 | 74 | 4 | .80 |
| 19 | 153 | 2 | .83 | 49 | 1 | .13 | 71 | 3 | .58 |
| 20 | 133 | 2 | .72 | 49 | 1 | .13 | 63 | 4 | .68 |
| 21 | 123 | 2 | .66 | 48 | 1 | .13 | 60 | 3 | .49 |
| 22 | 115 | 2 | .62 | 47 | --- | .10 | 57 | --- | .30 |
| 23 | 116 | 1 | .31 | 46 | 1 | .12 | 95 | 27 | 10 |
| 24 | 114 | 2 | .62 | 46 | 1 | .12 | 206 | 67 | 41 |
| 25 | 106 | 1 | .29 | 46 | 1 | .10 | 134 | 4 | 1.4 |
| 26 | 102 | 1 | .28 | 45 | --- | .10 | 181 | 26 | 13 |
| 27 | 100 | 3 | .81 | 43 | --- | .10 | 137 | 2 | .74 |
| 28 | 96 | 1 | .26 | 44 | --- | .10 | 170 | 3 | 1.4 |
| 29 | 90 | 1 | .24 | 46 | --- | .10 | 262 | 64 | 53 |
| 30 | 87 | 1 | .23 | 52 | --- | .10 | 256 | 22 | 16 |
| 31 | 83 | 1 | .22 | 58 | 1 | .16 | --- | --- | --- |
| TOTAL | 4,086 | --- | 84.08 | 1,776 | --- | 5.44 | 2,649 | --- | 141.37 |
| YEAR | 168,257 | | 277,111.30 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 189 | --- | 8.0 | 446 | 39 | 47 | 911 | 34 | 84 |
| 2 | 159 | --- | 5.0 | 374 | 23 | 23 | 794 | 31 | 66 |
| 3 | 140 | 6 | 2.3 | 328 | 15 | 13 | 705 | 18 | 34 |
| 4 | 126 | --- | 1.7 | 298 | 24 | 19 | 637 | 15 | 26 |
| 5 | 118 | --- | 1.1 | 321 | 13 | 11 | 710 | 7 | 13 |
| 6 | 110 | 2 | .59 | 368 | 12 | 12 | 634 | 13 | 22 |
| 7 | 102 | 1 | .28 | 573 | 71 | 120 | 570 | 8 | 12 |
| 8 | 98 | 1 | .26 | 452 | 12 | 15 | 526 | 12 | 17 |
| 9 | 96 | 2 | .52 | 421 | 9 | 10 | 483 | 12 | 16 |
| 10 | 97 | 1 | .26 | 380 | 7 | 7.2 | 453 | 14 | 17 |
| 11 | 94 | 1 | .25 | 389 | 12 | 14 | 440 | --- | 16 |
| 12 | 91 | 1 | .25 | 452 | 15 | 18 | 440 | --- | 15 |
| 13 | 88 | 1 | .24 | 429 | 9 | 10 | 440 | --- | 14 |
| 14 | 89 | 3 | .72 | 417 | 9 | 10 | 480 | --- | 17 |
| 15 | 88 | 1 | .24 | 386 | 13 | 14 | 450 | --- | 15 |
| 16 | 86 | 2 | .46 | 444 | 28 | 41 | 430 | --- | 14 |
| 17 | 85 | 1 | .23 | 608 | 57 | 105 | 400 | --- | 12 |
| 18 | 86 | 1 | .23 | 647 | 196 | 409 | 390 | --- | 10 |
| 19 | 85 | 1 | .23 | 873 | 143 | 337 | 370 | --- | 9.0 |
| 20 | 85 | 1 | .23 | 1,420 | 628 | 2,410 | 350 | --- | 7.0 |
| 21 | 82 | 1 | .22 | 2,160 | 434 | 2,760 | 330 | --- | 5.0 |
| 22 | 82 | 1 | .22 | 2,540 | 667 | 5,120 | 442 | 6 | 7.2 |
| 23 | 81 | 1 | .22 | 2,850 | 961 | 9,080 | 655 | --- | 30 |
| 24 | 81 | 1 | .22 | 5,200 | 1,420 | 19,900 | 568 | --- | 20 |
| 25 | 102 | 2 | .68 | 2,670 | 635 | 4,580 | 554 | --- | 15 |
| 26 | 188 | 32 | 17 | 1,790 | 250 | 1,210 | 685 | --- | 35 |
| 27 | 318 | 55 | 47 | 1,570 | 192 | 814 | 588 | --- | 20 |
| 28 | 306 | 27 | 22 | 1,440 | 135 | 525 | 558 | --- | 15 |
| 29 | 246 | 12 | 8.0 | 1,170 | 77 | 243 | 784 | --- | 55 |
| 30 | 340 | 44 | 44 | 1,010 | 47 | 128 | 870 | --- | 85 |
| 31 | 531 | 123 | 176 | --- | --- | --- | 757 | --- | 55 |
| TOTAL | 4,469 | --- | 338.65 | 32,426 | --- | 48,005.2 | 17,404 | --- | 778.2 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 780 | --- | 60 | 3,640 | 1,100 | 10,800 | 518 | 20 | 30 |
| 2 | 757 | --- | 55 | 2,120 | 370 | 2,120 | 758 | 57 | 117 |
| 3 | 792 | --- | 60 | 1,380 | 150 | 559 | 2,100 | 539 | 4,020 |
| 4 | 752 | --- | 50 | 1,020 | 49 | 135 | 2,560 | 601 | 4,150 |
| 5 | 669 | --- | 35 | 826 | 25 | 56 | 1,720 | 253 | 1,170 |
| 6 | 603 | 14 | 23 | 700 | 16 | 30 | 1,410 | 149 | 567 |
| 7 | 561 | --- | 18 | 629 | 16 | 27 | 1,050 | 72 | 204 |
| 8 | 515 | --- | 13 | 574 | 12 | 19 | 861 | 35 | 81 |
| 9 | 458 | --- | 8.0 | 535 | 11 | 16 | 764 | 18 | 37 |
| 10 | 416 | --- | 6.0 | 505 | 11 | 15 | 771 | 22 | 46 |
| 11 | 405 | --- | 4.0 | 503 | 12 | 16 | 711 | 18 | 35 |
| 12 | 566 | --- | 14 | 478 | 17 | 22 | 910 | 52 | 128 |
| 13 | 573 | --- | 14 | 499 | 17 | 23 | 1,130 | 91 | 278 |
| 14 | 591 | 10 | 16 | 548 | 20 | 30 | 1,180 | 58 | 185 |
| 15 | 508 | --- | 10 | 474 | 14 | 18 | 992 | 28 | 75 |
| 16 | 461 | --- | 7.0 | 451 | 14 | 17 | 890 | 20 | 48 |
| 17 | 430 | --- | 5.0 | 432 | 16 | 19 | 851 | 18 | 41 |
| 18 | 414 | --- | 5.0 | 398 | 16 | 17 | 803 | 19 | 41 |
| 19 | 392 | --- | 4.0 | 383 | 15 | 16 | 789 | 15 | 32 |
| 20 | 371 | --- | 3.0 | 367 | 14 | 14 | 758 | 14 | 29 |
| 21 | 356 | --- | 3.0 | 354 | 11 | 11 | 681 | 13 | 24 |
| 22 | 347 | --- | 3.0 | 384 | 17 | 18 | 610 | 12 | 20 |
| 23 | 360 | --- | 3.0 | 396 | 9 | 9.6 | 588 | 9 | 14 |
| 24 | 415 | --- | 6.0 | 370 | 9 | 9.0 | 529 | 9 | 13 |
| 25 | 423 | --- | 6.0 | 338 | 9 | 8.2 | 486 | 10 | 13 |
| 26 | 486 | --- | 10 | 321 | 10 | 8.7 | 482 | 16 | 21 |
| 27 | 720 | --- | 42 | 311 | 11 | 9.2 | 444 | 19 | 23 |
| 28 | 851 | 34 | 78 | 307 | 8 | 6.6 | 414 | 8 | 8.9 |
| 29 | 765 | --- | 68 | --- | --- | --- | 386 | 9 | 9.4 |
| 30 | 767 | --- | 60 | --- | --- | --- | 369 | 13 | 13 |
| 31 | 1,070 | --- | 420 | --- | --- | --- | 355 | 14 | 13 |
| TOTAL | 17,574 | --- | 1,109.0 | 19,243 | --- | 14,049.3 | 26,870 | --- | 11,486.3 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 345 | 10 | 9.3 | 701 | 46 | 87 | 398 | 13 | 14 |
| 2 | 340 | 12 | 11 | 583 | 44 | 69 | 337 | 7 | 6.4 |
| 3 | 390 | 16 | 17 | 489 | 36 | 48 | 303 | 8 | 6.5 |
| 4 | 410 | 17 | 19 | 436 | 46 | 54 | 313 | 6 | 5.1 |
| 5 | 405 | 29 | 32 | 452 | 25 | 31 | 326 | 8 | 7.0 |
| 6 | 400 | 30 | 32 | 554 | 60 | 90 | 296 | 6 | 4.8 |
| 7 | 410 | 12 | 13 | 706 | 91 | 173 | 280 | 8 | 6.0 |
| 8 | 607 | 15 | 26 | 702 | 56 | 106 | 279 | 5 | 3.8 |
| 9 | 524 | 6 | 9.1 | 671 | 53 | 96 | 261 | 6 | 4.2 |
| 10 | 550 | 9 | 13 | 592 | 39 | 62 | 242 | 5 | 3.3 |
| 11 | 673 | 12 | 22 | 518 | 25 | 35 | 228 | 4 | 2.5 |
| 12 | 711 | 16 | 31 | 897 | 98 | 250 | 220 | 4 | 2.4 |
| 13 | 637 | 7 | 12 | 607 | 39 | 64 | 215 | 3 | 1.7 |
| 14 | 618 | 6 | 10 | 535 | 25 | 36 | 211 | 4 | 2.3 |
| 15 | 690 | 17 | 32 | 503 | 20 | 27 | 200 | 4 | 2.2 |
| 16 | 724 | 25 | 49 | 428 | 24 | 28 | 187 | 3 | 1.5 |
| 17 | 826 | 25 | 56 | 388 | 13 | 14 | 173 | 4 | 1.9 |
| 18 | 786 | 23 | 49 | 359 | 11 | 11 | 160 | 4 | 1.7 |
| 19 | 702 | 13 | 25 | 336 | 10 | 9.1 | 156 | 4 | 1.7 |
| 20 | 635 | 11 | 19 | 306 | 10 | 8.3 | 153 | 4 | 1.7 |
| 21 | 591 | 12 | 19 | 290 | 10 | 7.8 | 177 | 4 | 1.9 |
| 22 | 584 | 15 | 24 | 289 | 9 | 6.7 | 191 | 5 | 2.6 |
| 23 | 594 | --- | 21 | 287 | 7 | 5.4 | 162 | 4 | 1.7 |
| 24 | 619 | 15 | 25 | 288 | 6 | 4.7 | 146 | 4 | 1.6 |
| 25 | 583 | 12 | 19 | 286 | 5 | 4.2 | 138 | 3 | 1.1 |
| 26 | 547 | 13 | 19 | 293 | 6 | 4.7 | 133 | 5 | 1.8 |
| 27 | 629 | 27 | 46 | 277 | 6 | 4.1 | 128 | 3 | 1.0 |
| 28 | 824 | 101 | 225 | 270 | 5 | 3.6 | 127 | 3 | 1.0 |
| 29 | 738 | 83 | 165 | 258 | 5 | 3.8 | 122 | 5 | 1.6 |
| 30 | 705 | 51 | 97 | 326 | 11 | 10 | 116 | 5 | 1.6 |
| 31 | --- | --- | --- | 486 | 33 | 43 | --- | --- | --- |
| TOTAL | 17,797 | --- | 1,146.4 | 14,113 | --- | 1,396.4 | 6,378 | --- | 96.6 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 112 | 8 | 2.4 | 71 | 3 | 0.58 | 46 | 2 | 0.25 |
| 2 | 107 | 6 | 1.7 | 68 | 5 | .92 | 46 | 3 | .37 |
| 3 | 106 | 6 | 1.7 | 65 | --- | .80 | 50 | 2 | .27 |
| 4 | 100 | 7 | 1.9 | 63 | 5 | .85 | 48 | 11 | 1.4 |
| 5 | 120 | 8 | 2.6 | 60 | 3 | .49 | 47 | 3 | .38 |
| 6 | 120 | 2 | .65 | 63 | 5 | .85 | 46 | 2 | .25 |
| 7 | 106 | 1 | .29 | 63 | 4 | .68 | 44 | 3 | .36 |
| 8 | 102 | 1 | .28 | 58 | 5 | .78 | 44 | 8 | .95 |
| 9 | 97 | 1 | .26 | 57 | 3 | .46 | 44 | 3 | .36 |
| 10 | 105 | 1 | .28 | 56 | 4 | .60 | 44 | 3 | .36 |
| 11 | 95 | 1 | .26 | 57 | 4 | .62 | 44 | 5 | .59 |
| 12 | 88 | 2 | .48 | 57 | 4 | .62 | 46 | 2 | .25 |
| 13 | 83 | 1 | .22 | 63 | 3 | .51 | 47 | 3 | .38 |
| 14 | 81 | 1 | .22 | 94 | 5 | 1.3 | 51 | 5 | .69 |
| 15 | 77 | 1 | .21 | 86 | 6 | 1.4 | 83 | 5 | 1.1 |
| 16 | 76 | --- | .20 | 74 | 4 | .80 | 65 | 3 | .53 |
| 17 | 79 | 1 | .21 | 68 | 3 | .55 | 54 | 4 | .58 |
| 18 | 100 | 4 | 1.1 | 63 | 2 | .34 | 48 | 3 | .39 |
| 19 | 114 | 2 | .62 | 60 | 5 | .81 | 46 | 3 | .37 |
| 20 | 91 | 2 | .49 | 58 | 2 | .31 | 45 | 3 | .36 |
| 21 | 82 | 1 | .22 | 57 | 3 | .46 | 44 | 2 | .24 |
| 22 | 78 | 3 | .63 | 56 | 2 | .30 | 41 | 7 | .77 |
| 23 | 80 | 2 | .43 | 54 | 2 | .29 | 40 | 4 | .43 |
| 24 | 93 | 1,100 | 276 | 53 | 3 | .43 | 39 | 4 | .42 |
| 25 | 84 | 328 | 74 | 52 | 2 | .28 | 43 | 3 | .35 |
| 26 | 81 | 16 | 3.5 | 50 | 2 | .27 | 58 | 9 | 1.4 |
| 27 | 76 | 4 | .82 | 49 | 4 | .53 | 52 | 5 | .70 |
| 28 | 72 | 2 | .39 | 48 | 2 | .26 | 45 | 5 | .61 |
| 29 | 71 | 3 | .58 | 47 | 4 | .51 | 42 | 4 | .45 |
| 30 | 70 | 3 | .57 | 47 | 11 | 1.4 | 41 | 2 | .22 |
| 31 | 71 | 4 | .77 | 46 | 2 | .25 | --- | --- | --- |
| TOTAL | 2,817 | --- | 373.98 | 1,863 | --- | 19.25 | 1,433 | --- | 15.78 |
| YEAR | 162,387 | | 78,815.06 TONS | | | | | | |

| DATE | TIME | TEMPERATURE WATER (DEG C) | CHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | MENT, DISCHARGE, SUSPENDED (T/DAY) | SUSP. FALL DIAM. % FINER THAN .002 MM | SUSP. FALL DIAM. % FINER THAN .004 MM | SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 04... | 1200 | 6.0 | 159 | 10.0 | 14 | 6.0 | -- | -- | -- |
| 27... | 1050 | 7.0 | 114 | 10.0 | 11 | 3.4 | -- | -- | -- |
| NOV | | | | | | | | | |
| 03... | 1410 | 8.5 | 1,370 | 20.0 | 2,880 | 10,700 | 8 | 10 | 21 |
| 03... | 1810 | 8.5 | 1,800 | 20.0 | 2,000 | 9,720 | 6 | 7 | 21 |
| 04... | 1205 | 7.5 | 1,260 | 20.0 | 660 | 2,250 | -- | -- | -- |
| 17... | 1400 | 6.0 | 2,090 | 20.0 | 1,290 | 7,280 | -- | -- | -- |
| 20... | 1515 | -- | 1,740 | 20.0 | 300 | 1,410 | -- | -- | -- |
| 21... | 1150 | 8.5 | 1,380 | 20.0 | 221 | 823 | -- | -- | -- |
| DEC | | | | | | | | | |
| 23... | 1330 | 0.0 | 304 | 20.0 | 14 | 11 | -- | -- | -- |
| 30... | 1500 | 2.5 | 876 | 20.0 | 160 | 378 | -- | -- | -- |
| JAN | | | | | | | | | |
| 04... | 1420 | 7.0 | 2,620 | 20.0 | 1,320 | 9,340 | -- | -- | -- |
| 19... | 1430 | 0.5 | 339 | 10.0 | 15 | 14 | -- | -- | -- |
| 24... | 1210 | 5.5 | 4,010 | 20.0 | 1,910 | 20,700 | -- | -- | -- |
| 25... | 1315 | 5.5 | 3,860 | 20.0 | 1,620 | 16,900 | -- | -- | -- |
| FEB | | | | | | | | | |
| 06... | 1410 | 7.5 | 484 | 20.0 | 25 | 33 | -- | -- | -- |
| 14... | 1410 | 4.5 | 958 | 20.0 | 86 | 222 | -- | -- | -- |
| MAR | | | | | | | | | |
| 06... | 1300 | -- | 410 | 10.0 | 75 | 83 | -- | -- | -- |
| 21... | 1215 | 5.5 | 1,400 | 20.0 | 235 | 888 | -- | -- | -- |
| APR | | | | | | | | | |
| 09... | 1340 | 6.0 | 836 | 20.0 | 28 | 63 | -- | -- | -- |
| 20... | 1215 | 6.0 | 520 | 10.0 | 18 | 25 | -- | -- | -- |
| MAY | | | | | | | | | |
| 15... | 1255 | 7.0 | 938 | 20.0 | 80 | 203 | -- | -- | -- |
| JUN | | | | | | | | | |
| 12... | 1220 | 8.5 | 788 | 20.0 | 59 | 126 | -- | -- | -- |
| 21... | 1250 | 9.0 | 1,480 | 20.0 | 610 | 2,440 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 04... | -- | -- | 50 | -- | -- | -- | -- | -- |
| 27... | -- | -- | 66 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | |
| 03... | 35 | 49 | 57 | 68 | 83 | 94 | 98 | 100 |
| 03... | 35 | 47 | 54 | 62 | 76 | 91 | 98 | 100 |
| 04... | -- | -- | 44 | 54 | 71 | 90 | 98 | 100 |
| 17... | -- | -- | 19 | -- | -- | -- | -- | -- |
| 20... | -- | -- | 20 | 38 | 61 | 81 | 96 | 100 |
| 21... | -- | -- | 26 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | 66 | 77 | 89 | 98 | 100 | -- |
| JAN | | | | | | | | |
| 04... | -- | -- | 34 | 48 | 65 | 84 | 94 | 98 |
| 19... | -- | -- | 46 | 68 | 91 | 100 | -- | -- |
| 24... | -- | -- | 59 | 69 | 80 | 91 | 98 | 99 |
| 25... | -- | -- | 28 | 41 | 57 | 75 | 95 | 99 |
| FEB | | | | | | | | |
| 06... | -- | -- | 54 | 73 | 90 | 100 | -- | -- |
| 14... | -- | -- | 40 | 60 | 81 | 96 | 100 | -- |
| MAR | | | | | | | | |
| 06... | -- | -- | 45 | 69 | 100 | -- | -- | -- |
| 21... | -- | -- | 41 | 57 | 75 | 92 | 100 | -- |
| APR | | | | | | | | |
| 09... | -- | -- | 25 | 43 | 77 | 100 | -- | -- |
| 20... | -- | -- | 37 | 55 | 71 | 86 | 100 | -- |
| MAY | | | | | | | | |
| 15... | -- | -- | 49 | 60 | 75 | 91 | 100 | -- |
| JUN | | | | | | | | |
| 12... | -- | -- | 10 | -- | -- | -- | -- | -- |
| 21... | -- | -- | 18 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| JUL | | | | | | | |
| 05... | 1500 | 14.5 | 451 | 10.0 | 25 | 30 | 13 |
| 12... | 1340 | 14.0 | 289 | 10.0 | 16 | 12 | 36 |
| 18... | 1345 | 18.0 | 239 | 10.0 | 11 | 7.1 | 42 |
| AUG | | | | | | | |
| 14... | 1540 | 15.0 | 90 | 10.0 | 1 | 0.24 | -- |
| SEP | | | | | | | |
| 06... | 1240 | 12.0 | 165 | 10.0 | 40 | 18 | 70 |
| 26... | 1315 | 12.0 | 76 | 10.0 | 3 | 0.62 | 33 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 12... | 1200 | 12.0 | 128 | 10.0 | 26 | 9.0 | -- | 77 | -- |
| NOV | | | | | | | | | |
| 02... | 1425 | 7.5 | 2,050 | 20.0 | 1,570 | 8,690 | -- | 23 | -- |
| DEC | | | | | | | | | |
| 03... | 1250 | 3.5 | 700 | 10.0 | 17 | 32 | -- | 20 | -- |
| JAN | | | | | | | | | |
| 10... | 1325 | 2.0 | 360 | 20.0 | 9 | 8.7 | -- | 51 | -- |
| FEB | | | | | | | | | |
| 01... | 1410 | 2.5 | 249 | 20.0 | 4 | 2.7 | -- | 52 | -- |
| 12... | 1445 | 4.0 | 421 | 20.0 | 16 | 18 | -- | 54 | -- |
| MAR | | | | | | | | | |
| 12... | 1445 | 6.5 | 312 | 20.0 | 8 | 6.7 | -- | 56 | -- |
| APR | | | | | | | | | |
| 02... | 1340 | 8.5 | 736 | 20.0 | 46 | 91 | -- | 36 | -- |
| 11... | 1435 | 8.5 | 985 | 20.0 | 101 | 269 | -- | 51 | -- |
| 11... | 1436 | 8.5 | 985 | 20.0 | 127 | 338 | 50 | -- | 69 |
| 25... | 1355 | 8.0 | 580 | 20.0 | 20 | 31 | -- | 43 | -- |
| 25... | 1356 | 8.0 | 580 | 20.0 | 11 | 17 | -- | 16 | -- |
| MAY | | | | | | | | | |
| 15... | 1310 | 11.0 | 447 | 20.0 | 12 | 14 | -- | -- | -- |
| JUN | | | | | | | | | |
| 07... | 1515 | 9.0 | 3,760 | 20.0 | 1,880 | 19,100 | -- | 36 | -- |
| 26... | 1440 | 15.0 | 270 | 20.0 | 31 | 23 | -- | -- | -- |
| JUL | | | | | | | | | |
| 18... | 1215 | 19.5 | 119 | 10.0 | 2 | 0.64 | -- | 42 | -- |
| AUG | | | | | | | | | |
| 13... | 1210 | 20.0 | 76 | 10.0 | 4 | 0.82 | -- | 52 | -- |
| SEP | | | | | | | | | |
| 10... | 1440 | 17.5 | 293 | 20.0 | 60 | 47 | -- | 92 | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | 1525 | -- | 85 | 10.0 | 2 | 0.46 | -- | 91 | -- |
| 25... | 1425 | -- | 1,710 | 20.0 | 698 | 3,220 | -- | 48 | -- |
| 30... | 1600 | -- | 800 | 20.0 | 50 | 108 | -- | 12 | -- |
| NOV | | | | | | | | | |
| 07... | 1320 | -- | 2,260 | 20.0 | 337 | 2,060 | -- | 21 | -- |
| 15... | 1305 | -- | 552 | 10.0 | 25 | 37 | -- | 12 | -- |
| DEC | | | | | | | | | |
| 09... | 1320 | -- | 628 | 20.0 | 12 | 20 | -- | 30 | -- |
| JAN | | | | | | | | | |
| 02... | 1300 | 2.5 | 239 | 10.0 | 2 | 1.3 | -- | -- | -- |
| 19... | 1145 | -- | 1,500 | 20.0 | 450 | 1,820 | -- | 53 | -- |
| 23... | 1320 | 5.5 | 984 | 20.0 | 74 | 197 | -- | -- | -- |
| FEB | | | | | | | | | |
| 24... | 1625 | -- | 4,750 | 20.0 | 2,440 | 31,300 | 33 | 29 | 49 |
| 26... | 1530 | -- | 2,050 | 20.0 | 457 | 2,530 | -- | 36 | -- |
| 27... | 1420 | 9.0 | 1,250 | 20.0 | 215 | 726 | -- | 42 | -- |
| MAR | | | | | | | | | |
| 21... | 1540 | 9.0 | 563 | 20.0 | 24 | 36 | -- | 76 | -- |
| APR | | | | | | | | | |
| 15... | 1430 | 8.5 | 380 | 20.0 | 6 | 6.2 | -- | -- | -- |
| MAY | | | | | | | | | |
| 13... | 1530 | 7.5 | 1,100 | 20.0 | 213 | 633 | -- | 55 | -- |
| JUN | | | | | | | | | |
| 17... | 1425 | 13.0 | 204 | 20.0 | 12 | 6.6 | -- | -- | -- |
| JUL | | | | | | | | | |
| 17... | 1500 | 12.5 | 246 | 20.0 | 9 | 6.0 | -- | -- | -- |
| AUG | | | | | | | | | |
| 14... | 1145 | 21.0 | 59 | 10.0 | 2 | 0.3 | -- | -- | -- |
| SEP | | | | | | | | | |
| 18... | 1245 | -- | 75 | 10.0 | 1 | 0.20 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | |
| 02... | 40 | -- | 69 | -- | 90 | -- | 96 | 98 |
| DEC | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | |
| 10... | 67 | -- | 82 | -- | 100 | -- | -- | -- |
| FEB | | | | | | | | |
| 01... | 79 | -- | 100 | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 63 | -- | 82 | -- | 95 | -- | 100 | -- |
| 11... | -- | 94 | -- | 99 | -- | 100 | -- | -- |
| 25... | 70 | -- | 100 | -- | -- | -- | -- | -- |
| 25... | 44 | -- | 85 | -- | 95 | -- | 100 | -- |
| MAY | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 07... | 46 | -- | 65 | -- | 86 | -- | 98 | 100 |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 18... | 61 | -- | 77 | -- | 100 | -- | -- | -- |
| AUG | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | |
| 10... | 100 | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 57 | -- | 74 | -- | 92 | -- | 98 | -- | 100 |
| 30... | 32 | -- | 49 | -- | 82 | -- | 100 | -- | -- |
| NOV | | | | | | | | | |
| 07... | 33 | -- | 58 | -- | 85 | -- | 96 | -- | 100 |
| 15... | 47 | -- | 100 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | 67 | -- | 82 | -- | 94 | -- | 99 | -- | 100 |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | |
| 24... | -- | 75 | -- | 92 | -- | 99 | -- | 100 | -- |
| 26... | 46 | -- | 73 | -- | 91 | -- | 100 | -- | -- |
| 27... | 52 | -- | 77 | -- | 94 | -- | 100 | -- | -- |
| MAR | | | | | | | | | |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | |
| 15... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | |
| 17... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 06... | 1525 | -- | 109 | 10.0 | 2 | 0.59 | -- | -- | -- | -- | -- | -- |
| 31... | 1335 | 9.5 | 563 | 20.0 | 93 | 141 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 20... | 1615 | -- | 2,100 | 20.0 | 1,220 | 6,920 | -- | -- | -- | -- | -- | 47 |
| 21... | 0845 | -- | 1,990 | 20.0 | 468 | 2,510 | -- | -- | -- | -- | -- | -- |
| 22... | 1125 | 8.5 | 2,610 | 20.0 | 535 | 3,770 | -- | -- | -- | -- | -- | -- |
| 22... | 1340 | 8.0 | 2,160 | 20.0 | 472 | 2,750 | -- | -- | -- | -- | -- | -- |
| 24... | 0920 | -- | 6,850 | 20.0 | 2,050 | 37,900 | 4 | 4 | 9 | 15 | 22 | 32 |
| 25... | 1320 | 7.0 | 2,610 | 20.0 | 601 | 4,240 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 22... | 1400 | 7.0 | 332 | 20.0 | 6 | 5.4 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 28... | 1355 | 5.5 | 872 | 20.0 | 37 | 87 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1125 | -- | 4,340 | 20.0 | 1,240 | 14,500 | -- | -- | -- | -- | -- | -- |
| 02... | 1040 | -- | 2,160 | 20.0 | 360 | 2,100 | -- | -- | -- | -- | -- | -- |
| 02... | 1310 | -- | 2,020 | 20.0 | 333 | 1,820 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 03... | 1415 | 7.0 | 2,320 | 20.0 | 606 | 3,800 | -- | -- | -- | -- | -- | 39 |
| 04... | 1140 | 7.0 | 2,550 | 20.0 | 497 | 3,420 | -- | -- | -- | -- | -- | -- |
| 04... | 1425 | 7.0 | 2,430 | 20.0 | 432 | 2,830 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 07... | 1620 | 8.0 | 403 | 20.0 | 4 | 4.4 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 14... | 1610 | -- | 574 | 20.0 | 30 | 46 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 06... | 1320 | -- | 117 | 20.0 | 2 | 0.63 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 05... | 1525 | -- | 62 | 10.0 | 3 | 0.50 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 21... | 1420 | -- | 43 | 10.0 | 2 | 0.23 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 20... | -- | 58 | -- | 72 | -- | 95 | -- | 100 | -- | -- | -- |
| 21... | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | 44 | -- | 64 | -- | 91 | -- | 98 | -- | 100 | -- |
| 25... | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | 33 | -- | 44 | -- | 58 | -- | 84 | -- | 94 | -- | 99 |
| 02... | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02... | 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 03... | -- | 59 | -- | 85 | -- | 98 | -- | 100 | -- | -- | -- |
| 04... | 34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 04... | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | | |
| 19... | 1240 | 4 | 8 | 9 | 16 | 20 | 24 | 30 | 35 | 41 | 100 |
| 19... | 1245 | 2 | 9 | 24 | 48 | 77 | 93 | 99 | 100 | -- | -- |

## 14241100 NORTH FORK TOUTLE RIVER AT KID VALLEY, WA

**LOCATION.**--Lat 46°21′55″, long 122°37′40″, in NE ¼ SW ¼ sec. 12, T.10 N., R.1 E., Cowlitz County, Hydrologic Unit 17080005, on right bank at downstream side of bridge on State Highway 504, 0.8 mi southwest of Kid Valley, and 6.9 mi upstream from confluence with South Fork.

**DRAINAGE AREA.**--284 $mi^2$, of which approximately 21 $mi^2$ is noncontributing. Prior to July 7, 1981, the noncontributing portion was approximately 40 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--June 1980 through September 1987.

**GAGE.**--Water-stage recorder. Datum of gage is 575.80 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.**--(Mar. 20, 1982 is **lahar-runout flow**.)

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Nov. 21, 1980 | 1400 | 319,000 |
| 1982 | Feb. 20, 1982 | 1935 | 197,000 |
| 1982 | Mar. 20, 1982 | 0010 | 1,160,000 |
| 1983 | Dec. 3, 1982 | 2100 | 171,000 |
| 1984 | Nov. 3, 1983 | 1250 | 196,000 |
| 1985 | Nov. 2, 1984 | 1520 | 38,200 |
| 1986 | Feb. 24, 1986 | 1155 | 31,300 |
| 1987 | Feb. 1, 1987 | 1010 | 46,400 |

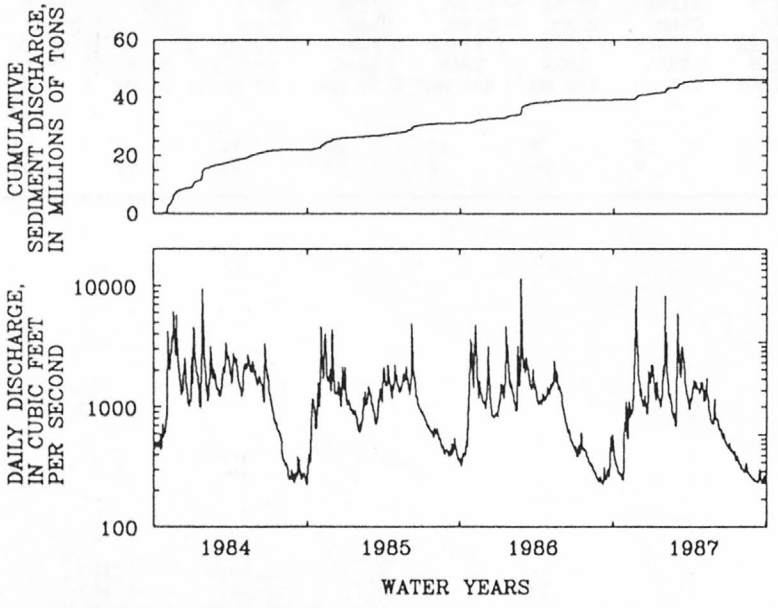


Figure 10.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, North Fork Toutle River at Kid Valley, Wash. (14241100).

14241100 NORTH FORK TOUTLE RIVER AT KID VALLEY, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 456 | --- | 10,000 | 825 | 19,000 | 42,300 | 1,840 | --- | 53,000 |
| 2 | 463 | --- | 10,000 | 1,000 | --- | 62,000 | 1,740 | --- | 49,000 |
| 3 | 449 | --- | 9,700 | 4,190 | 112,000 | 1,640,000 | 1,580 | --- | 44,000 |
| 4 | 479 | --- | 9,800 | 3,360 | 55,700 | 538,000 | 1,390 | --- | 38,000 |
| 5 | 474 | --- | 9,500 | 2,130 | --- | 230,000 | 1,300 | 10,000 | 35,100 |
| 6 | 470 | --- | 9,000 | 2,270 | 32,000 | 196,000 | 1,260 | 10,200 | 34,700 |
| 7 | 475 | --- | 8,700 | 2,360 | 26,000 | 166,000 | 1,350 | 10,900 | 39,700 |
| 8 | 482 | --- | 8,500 | 2,170 | 20,000 | 117,000 | 1,330 | 10,200 | 36,600 |
| 9 | 480 | --- | 8,000 | 2,020 | --- | 93,000 | 1,400 | 9,540 | 36,100 |
| 10 | 487 | --- | 7,800 | 2,530 | --- | 140,000 | 1,800 | 16,400 | 79,700 |
| 11 | 459 | --- | 7,300 | 2,980 | --- | 210,000 | 1,850 | 11,600 | 57,900 |
| 12 | 469 | --- | 7,300 | 2,810 | --- | 190,000 | 2,080 | 10,100 | 56,700 |
| 13 | 484 | --- | 7,400 | 3,840 | --- | 350,000 | 2,380 | 8,240 | 53,000 |
| 14 | 518 | --- | 7,800 | 3,470 | 30,800 | 289,000 | 2,480 | 8,400 | 56,200 |
| 15 | 518 | --- | 7,800 | 3,810 | --- | 320,000 | 2,190 | 8,190 | 48,400 |
| 16 | 526 | --- | 8,000 | 4,730 | --- | 450,000 | 1,860 | 7,470 | 37,500 |
| 17 | 593 | --- | 12,000 | 6,090 | 41,900 | 689,000 | 1,630 | 6,610 | 29,100 |
| 18 | 441 | --- | 6,100 | 5,350 | 28,500 | 412,000 | 1,480 | 5,280 | 21,100 |
| 19 | 464 | --- | 6,300 | 3,760 | --- | 210,000 | 1,360 | 5,760 | 21,200 |
| 20 | 514 | --- | 7,600 | 3,760 | 21,800 | 235,000 | 1,200 | --- | 17,000 |
| 21 | 461 | 5,100 | 6,350 | 2,970 | --- | 120,000 | 1,080 | 4,900 | 14,300 |
| 22 | 716 | --- | 17,000 | 2,670 | 12,900 | 93,000 | 1,090 | --- | 14,000 |
| 23 | 584 | --- | 13,000 | 3,370 | --- | 110,000 | 1,070 | --- | 14,000 |
| 24 | 560 | --- | 13,000 | 5,750 | --- | 280,000 | 1,010 | --- | 13,000 |
| 25 | 640 | --- | 17,000 | 4,220 | --- | 150,000 | 1,060 | --- | 13,000 |
| 26 | 600 | --- | 15,000 | 3,250 | --- | 100,000 | 1,120 | --- | 13,000 |
| 27 | 601 | --- | 14,000 | 2,780 | --- | 86,000 | 1,100 | --- | 12,000 |
| 28 | 622 | --- | 15,000 | 2,500 | 11,000 | 74,300 | 1,100 | --- | 12,000 |
| 29 | 641 | --- | 16,000 | 2,180 | --- | 65,000 | 1,870 | --- | 53,000 |
| 30 | 713 | --- | 20,000 | 1,930 | --- | 56,000 | 2,550 | 21,600 | 149,000 |
| 31 | 848 | --- | 49,000 | --- | --- | --- | 1,740 | 16,400 | 77,000 |
| TOTAL | 16,687 | --- | 363,950 | 95,075 | --- | 7,713,600 | 48,290 | --- | 1,228,300 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,550 | --- | 65,000 | 1,800 | --- | 69,000 | 1,380 | --- | 32,000 |
| 2 | 2,120 | 16,900 | 96,700 | 1,570 | --- | 58,000 | 1,400 | --- | 29,000 |
| 3 | 4,530 | 40,900 | 628,000 | 1,400 | --- | 49,000 | 1,360 | --- | 29,000 |
| 4 | 4,480 | 23,500 | 284,000 | 1,290 | --- | 41,000 | 1,280 | --- | 27,000 |
| 5 | 4,040 | 23,400 | 255,000 | 1,210 | --- | 34,000 | 1,250 | --- | 27,000 |
| 6 | 3,080 | 19,200 | 160,000 | 1,110 | 8,500 | 25,500 | 1,230 | --- | 27,000 |
| 7 | 2,600 | 16,900 | 119,000 | 1,140 | --- | 24,000 | 1,220 | --- | 26,000 |
| 8 | 2,330 | 14,700 | 92,500 | 1,240 | --- | 24,000 | 1,220 | 7,800 | 25,700 |
| 9 | 2,030 | 12,600 | 69,100 | 1,490 | --- | 31,000 | 1,270 | --- | 27,000 |
| 10 | 1,960 | 14,200 | 75,100 | 1,570 | --- | 30,000 | 1,430 | --- | 32,000 |
| 11 | 1,910 | 13,800 | 71,200 | 1,800 | --- | 39,000 | 1,440 | --- | 28,000 |
| 12 | 1,800 | 14,500 | 70,500 | 3,150 | --- | 120,000 | 1,700 | --- | 35,000 |
| 13 | 1,810 | 12,300 | 60,100 | 3,040 | 13,700 | 112,000 | 1,700 | --- | 32,000 |
| 14 | 1,640 | --- | 53,000 | 2,660 | --- | 89,000 | 2,060 | --- | 46,000 |
| 15 | 1,470 | --- | 44,000 | 2,380 | --- | 69,000 | 2,110 | --- | 36,000 |
| 16 | 1,330 | --- | 36,000 | 2,130 | --- | 52,000 | 1,950 | --- | 31,000 |
| 17 | 1,160 | --- | 31,000 | 1,900 | --- | 38,000 | 2,010 | --- | 28,000 |
| 18 | 1,040 | 9,000 | 25,300 | 1,790 | --- | 28,000 | 1,920 | --- | 22,000 |
| 19 | 981 | --- | 24,000 | 1,690 | --- | 24,000 | 1,980 | --- | 20,000 |
| 20 | 1,010 | --- | 30,000 | 1,830 | --- | 43,000 | 2,500 | 4,440 | 31,900 |
| 21 | 1,280 | --- | 43,000 | 2,010 | 10,000 | 54,300 | 3,370 | 6,390 | 58,100 |
| 22 | 1,950 | 23,000 | 121,000 | 1,790 | --- | 38,000 | 2,990 | 5,050 | 40,800 |
| 23 | 3,730 | 31,200 | 522,000 | 1,760 | --- | 34,000 | 2,980 | 5,780 | 46,500 |
| 24 | 9,380 | 46,100 | 1,230,000 | 1,820 | --- | 48,000 | 2,700 | --- | 35,000 |
| 25 | 8,930 | 41,500 | 1,120,000 | 1,610 | --- | 33,000 | 2,560 | --- | 40,000 |
| 26 | 5,880 | 18,800 | 298,000 | 1,500 | --- | 30,000 | 2,600 | 6,720 | 47,200 |
| 27 | 4,610 | 17,000 | 212,000 | 1,400 | 7,200 | 27,200 | 2,460 | 6,860 | 45,600 |
| 28 | 3,320 | 17,800 | 160,000 | 1,390 | --- | 27,000 | 2,580 | 7,560 | 52,700 |
| 29 | 2,650 | 15,800 | 113,000 | 1,360 | --- | 30,000 | 2,300 | 6,160 | 38,300 |
| 30 | 2,310 | --- | 95,000 | --- | --- | --- | 2,020 | 5,980 | 32,600 |
| 31 | 2,020 | 14,600 | 79,600 | --- | --- | --- | 1,900 | 5,980 | 30,700 |
| TOTAL | 88,931 | --- | 6,283,100 | 50,830 | --- | 1,321,000 | 60,870 | --- | 1,059,100 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 1,840 | 6,380 | 31,700 | 1,660 | 8,640 | 38,700 | 1,650 | 10,200 | 45,400 |
| 2 | 1,890 | 6,090 | 31,100 | 2,120 | 10,800 | 61,800 | 1,570 | 13,500 | 57,200 |
| 3 | 1,670 | 5,600 | 25,300 | 2,170 | 6,900 | 40,400 | 1,500 | 13,200 | 53,500 |
| 4 | 1,560 | 5,130 | 21,600 | 2,130 | 6,210 | 35,700 | 1,560 | 12,400 | 52,200 |
| 5 | 1,680 | --- | 23,000 | 2,260 | 7,130 | 43,500 | 1,630 | 10,400 | 45,800 |
| 6 | 1,780 | --- | 25,000 | 2,170 | 6,440 | 37,700 | 1,570 | 9,880 | 41,900 |
| 7 | 2,760 | --- | 83,000 | 2,010 | 5,520 | 30,000 | 1,680 | 11,800 | 53,500 |
| 8 | 2,680 | --- | 63,000 | 2,200 | 5,290 | 31,400 | 1,770 | 8,100 | 38,700 |
| 9 | 2,520 | 6,580 | 44,800 | 2,160 | 5,060 | 29,500 | 1,770 | 8,190 | 39,100 |
| 10 | 2,580 | 7,120 | 49,600 | 2,080 | 4,370 | 24,500 | 1,670 | 6,600 | 29,800 |
| 11 | 2,380 | 5,880 | 37,800 | 2,430 | 6,210 | 40,700 | 1,600 | 6,400 | 27,600 |
| 12 | 2,480 | 7,290 | 48,800 | 2,660 | 5,880 | 42,200 | 1,550 | 6,600 | 27,600 |
| 13 | 2,300 | 5,830 | 36,200 | 2,400 | 4,940 | 32,000 | 1,540 | 9,020 | 37,500 |
| 14 | 2,330 | 5,980 | 37,600 | 2,440 | 22,600 | 149,000 | 1,510 | 7,770 | 31,700 |
| 15 | 2,480 | 7,750 | 51,900 | 2,370 | 18,000 | 115,000 | 1,460 | 7,350 | 29,000 |
| 16 | 2,290 | 7,600 | 47,000 | 2,330 | 12,800 | 80,500 | 1,410 | 7,740 | 29,500 |
| 17 | 2,050 | 7,760 | 43,000 | 2,070 | 10,500 | 58,700 | 1,250 | 8,100 | 27,300 |
| 18 | 1,870 | --- | 33,000 | 1,930 | 10,100 | 52,600 | 1,160 | 7,120 | 22,300 |
| 19 | 1,780 | --- | 32,000 | 1,980 | 10,300 | 55,100 | 1,090 | 8,140 | 24,000 |
| 20 | 1,640 | 5,670 | 25,100 | 2,100 | 9,000 | 51,000 | 1,520 | 10,400 | 42,700 |
| 21 | 1,560 | 5,800 | 24,400 | 1,910 | 8,000 | 41,300 | 3,310 | 10,400 | 92,900 |
| 22 | 1,510 | 5,620 | 22,900 | 2,110 | 9,900 | 56,400 | 2,680 | 6,710 | 48,600 |
| 23 | 1,490 | 6,670 | 26,800 | 2,360 | 8,920 | 56,800 | 2,340 | 5,990 | 37,800 |
| 24 | 1,430 | 7,200 | 27,800 | 2,200 | 7,220 | 42,900 | 2,200 | 6,080 | 36,100 |
| 25 | 1,380 | 7,250 | 27,000 | 2,000 | 8,200 | 44,300 | 2,060 | 6,020 | 33,500 |
| 26 | 1,280 | 6,630 | 22,900 | 2,200 | 8,360 | 49,700 | 1,980 | 6,300 | 33,700 |
| 27 | 1,220 | 5,200 | 17,100 | 2,000 | 8,220 | 44,400 | 1,830 | 6,510 | 32,200 |
| 28 | 1,250 | 4,840 | 16,300 | 1,850 | 7,250 | 36,200 | 1,690 | 5,940 | 27,100 |
| 29 | 1,360 | 6,250 | 23,000 | 1,920 | --- | 34,000 | 1,830 | 8,000 | 39,500 |
| 30 | 1,340 | 6,250 | 22,600 | 1,980 | --- | 39,000 | 1,520 | 5,600 | 23,000 |
| 31 | --- | --- | --- | 1,820 | --- | 39,000 | --- | --- | --- |
| TOTAL | 56,380 | --- | 1,021,300 | 66,020 | --- | 1,534,000 | 51,900 | --- | 1,160,700 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 1,360 | 5,200 | 19,100 | 420 | 2,800 | 3,180 | 276 | --- | 970 |
| 2 | 1,290 | 5,000 | 17,400 | 401 | --- | 2,900 | 268 | --- | 970 |
| 3 | 1,250 | 5,200 | 17,600 | 368 | --- | 2,600 | 264 | --- | 860 |
| 4 | 1,210 | 5,400 | 17,600 | 363 | --- | 2,500 | 251 | 1,190 | 806 |
| 5 | 1,170 | 5,300 | 16,700 | 364 | --- | 2,400 | 280 | --- | 1,500 |
| 6 | 1,120 | 5,200 | 15,700 | 357 | --- | 2,200 | 265 | --- | 1,900 |
| 7 | 1,040 | 5,000 | 14,000 | 345 | --- | 2,000 | 280 | --- | 2,200 |
| 8 | 995 | 5,000 | 13,400 | 341 | --- | 1,900 | 383 | --- | 4,400 |
| 9 | 943 | 5,000 | 12,700 | 328 | 2,020 | 1,790 | 338 | --- | 2,900 |
| 10 | 929 | 5,200 | 13,000 | 333 | --- | 1,700 | 340 | --- | 2,900 |
| 11 | 892 | 6,000 | 14,500 | 336 | --- | 1,500 | 359 | --- | 3,500 |
| 12 | 846 | 5,800 | 13,200 | 328 | --- | 1,400 | 318 | --- | 1,900 |
| 13 | 811 | 5,700 | 12,500 | 322 | --- | 1,300 | 297 | --- | 1,400 |
| 14 | 776 | --- | 11,000 | 309 | 1,420 | 1,180 | 277 | --- | 1,000 |
| 15 | 749 | --- | 11,000 | 291 | --- | 1,100 | 254 | --- | 960 |
| 16 | 730 | --- | 10,000 | 271 | --- | 1,000 | 248 | --- | 940 |
| 17 | 750 | --- | 11,000 | 260 | --- | 950 | 249 | --- | 870 |
| 18 | 740 | --- | 10,000 | 248 | --- | 900 | 261 | --- | 920 |
| 19 | 710 | --- | 10,000 | 254 | --- | 930 | 270 | 1,340 | 977 |
| 20 | 680 | --- | 10,000 | 258 | --- | 910 | 271 | --- | 950 |
| 21 | 660 | --- | 9,100 | 262 | --- | 920 | 278 | --- | 980 |
| 22 | 650 | --- | 9,000 | 248 | --- | 840 | 280 | --- | 980 |
| 23 | 630 | --- | 8,500 | 252 | --- | 850 | 280 | --- | 980 |
| 24 | 620 | --- | 8,400 | 295 | --- | 1,000 | 270 | --- | 950 |
| 25 | 620 | 5,020 | 8,400 | 287 | --- | 930 | 260 | --- | 910 |
| 26 | 620 | --- | 8,200 | 275 | --- | 890 | 254 | --- | 960 |
| 27 | 590 | --- | 7,500 | 262 | --- | 810 | 237 | --- | 960 |
| 28 | 580 | --- | 7,000 | 251 | --- | 780 | 244 | --- | 990 |
| 29 | 560 | --- | 6,400 | 241 | --- | 720 | 224 | --- | 910 |
| 30 | 540 | --- | 5,800 | 231 | --- | 690 | 236 | --- | 960 |
| 31 | 510 | --- | 4,700 | 247 | --- | 800 | --- | --- | --- |
| TOTAL | 25,571 | --- | 353,400 | 9,348 | --- | 43,570 | 8,312 | --- | 42,413 |
| YEAR | 578,214 | | 22,124,433 | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 250 | --- | 1,200 | 1,410 | 13,400 | 77,900 | 2,900 | --- | 78,000 |
| 2 | 300 | --- | 2,000 | 4,570 | 38,000 | 469,000 | 2,230 | --- | 54,000 |
| 3 | 350 | --- | 3,200 | 4,270 | 18,600 | 214,000 | 1,780 | --- | 36,000 |
| 4 | 400 | 4,360 | 4,710 | 2,970 | 14,700 | 118,000 | 1,480 | 6,000 | 24,000 |
| 5 | 355 | --- | 3,400 | 2,320 | 12,300 | 77,000 | 1,330 | --- | 17,000 |
| 6 | 356 | --- | 3,400 | 2,100 | 10,500 | 59,500 | 1,270 | 4,740 | 16,300 |
| 7 | 347 | --- | 3,200 | 1,960 | 10,400 | 55,000 | 1,280 | 5,160 | 17,800 |
| 8 | 356 | --- | 3,400 | 1,700 | 11,100 | 50,900 | 1,320 | 5,880 | 21,000 |
| 9 | 394 | --- | 4,300 | 1,900 | 12,600 | 64,600 | 1,310 | 5,250 | 18,600 |
| 10 | 700 | --- | 17,000 | 3,300 | 17,400 | 155,000 | 1,320 | 5,670 | 20,200 |
| 11 | 950 | --- | 32,000 | 3,920 | 15,000 | 159,000 | 1,260 | 5,120 | 17,400 |
| 12 | 1,000 | --- | 36,000 | 3,700 | 15,000 | 150,000 | 1,300 | 6,150 | 21,600 |
| 13 | 1,150 | --- | 48,000 | 4,000 | 15,200 | 164,000 | 1,320 | 4,720 | 16,800 |
| 14 | 1,150 | --- | 48,000 | 3,230 | 9,430 | 82,200 | 1,610 | --- | 23,000 |
| 15 | 1,100 | --- | 42,000 | 2,410 | 8,750 | 56,900 | 1,510 | --- | 21,000 |
| 16 | 1,050 | --- | 38,000 | 1,860 | 7,560 | 38,000 | 1,350 | --- | 17,000 |
| 17 | 1,000 | --- | 34,000 | 1,640 | 4,320 | 19,100 | 1,290 | --- | 17,000 |
| 18 | 950 | --- | 30,000 | 1,750 | 8,480 | 40,100 | 1,170 | --- | 14,000 |
| 19 | 830 | --- | 23,000 | 1,630 | --- | 29,000 | 1,090 | 4,400 | 12,900 |
| 20 | 694 | --- | 15,000 | 1,620 | --- | 28,000 | 1,030 | --- | 12,000 |
| 21 | 652 | --- | 14,000 | 1,700 | --- | 32,000 | 1,010 | 3,990 | 10,900 |
| 22 | 667 | --- | 13,000 | 1,680 | --- | 30,000 | 1,480 | 4,680 | 18,700 |
| 23 | 685 | --- | 15,000 | 2,010 | --- | 60,000 | 2,110 | 3,840 | 21,900 |
| 24 | 675 | --- | 14,000 | 1,690 | --- | 41,000 | 2,050 | 2,880 | 15,900 |
| 25 | 1,060 | 11,800 | 36,700 | 1,430 | --- | 32,000 | 1,820 | 2,310 | 11,400 |
| 26 | 1,560 | 8,100 | 34,100 | 1,340 | 7,700 | 27,900 | 1,660 | 2,550 | 11,400 |
| 27 | 1,380 | --- | 28,000 | 1,760 | --- | 52,000 | 1,590 | 2,880 | 12,400 |
| 28 | 1,320 | --- | 23,000 | 3,660 | --- | 160,000 | 1,390 | 2,340 | 8,780 |
| 29 | 1,130 | --- | 17,000 | 4,330 | --- | 150,000 | 1,830 | 5,440 | 26,900 |
| 30 | 1,070 | --- | 14,000 | 3,700 | --- | 110,000 | 2,110 | --- | 39,000 |
| 31 | 1,010 | --- | 12,000 | --- | --- | --- | 1,650 | --- | 20,000 |
| TOTAL | 24,891 | --- | 612,610 | 75,560 | --- | 2,802,100 | 47,850 | --- | 672,880 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,380 | --- | 13,000 | 642 | --- | 5,500 | 1,280 | 3,240 | 11,200 |
| 2 | 1,180 | --- | 9,800 | 631 | --- | 5,500 | 1,170 | 3,360 | 10,600 |
| 3 | 1,040 | 2,880 | 8,090 | 610 | --- | 5,300 | 1,050 | 2,700 | 7,650 |
| 4 | 1,030 | 3,180 | 8,840 | 726 | --- | 24,000 | 1,080 | 2,610 | 7,610 |
| 5 | 1,030 | 3,140 | 8,730 | 638 | --- | 7,200 | 1,040 | --- | 7,300 |
| 6 | 1,050 | 2,610 | 7,400 | 657 | --- | 5,900 | 994 | 2,600 | 6,980 |
| 7 | 1,090 | 3,240 | 9,540 | 734 | 3,150 | 6,240 | 947 | --- | 6,600 |
| 8 | 1,120 | 3,540 | 10,700 | 748 | --- | 5,500 | 934 | --- | 6,300 |
| 9 | 1,090 | 3,070 | 9,040 | 760 | --- | 6,100 | 912 | --- | 6,200 |
| 10 | 1,060 | 2,950 | 8,440 | 776 | --- | 7,300 | 849 | --- | 5,500 |
| 11 | 1,010 | 2,520 | 6,870 | 1,110 | 7,120 | 23,300 | 799 | --- | 5,200 |
| 12 | 947 | --- | 6,000 | 1,190 | 3,860 | 12,400 | 770 | --- | 4,800 |
| 13 | 933 | --- | 7,500 | 1,000 | 3,380 | 9,130 | 720 | 2,300 | 4,470 |
| 14 | 947 | --- | 10,000 | 1,070 | 6,130 | 17,700 | 718 | --- | 4,100 |
| 15 | 951 | --- | 11,000 | 1,330 | 4,510 | 16,200 | 731 | --- | 3,800 |
| 16 | 930 | 3,590 | 9,010 | 1,160 | 3,540 | 11,100 | 750 | --- | 4,000 |
| 17 | 922 | 3,780 | 9,410 | 1,090 | 3,670 | 10,800 | 790 | --- | 4,500 |
| 18 | 867 | 2,880 | 6,740 | 1,030 | 2,900 | 8,060 | 830 | --- | 4,900 |
| 19 | 870 | --- | 7,000 | 1,040 | 7,300 | 20,500 | 873 | 2,640 | 6,220 |
| 20 | 934 | --- | 9,000 | 1,080 | 5,660 | 16,500 | 1,090 | 3,700 | 10,900 |
| 21 | 911 | --- | 8,400 | 1,060 | 5,110 | 14,600 | 1,200 | 3,450 | 11,200 |
| 22 | 913 | 3,380 | 8,330 | 1,280 | 7,420 | 25,600 | 1,110 | --- | 8,400 |
| 23 | 927 | 3,640 | 9,110 | 1,330 | 4,980 | 17,900 | 1,310 | --- | 21,000 |
| 24 | 895 | --- | 8,700 | 1,460 | 6,750 | 26,600 | 1,400 | --- | 21,000 |
| 25 | 852 | --- | 8,300 | 1,390 | 5,440 | 20,400 | 1,330 | --- | 20,000 |
| 26 | 819 | --- | 8,000 | 1,340 | 4,270 | 15,400 | 1,250 | 5,600 | 18,900 |
| 27 | 789 | --- | 7,200 | 1,300 | 3,240 | 11,400 | 1,240 | 6,270 | 21,000 |
| 28 | 746 | --- | 7,000 | 1,280 | 3,060 | 10,600 | 1,170 | 5,310 | 16,800 |
| 29 | 706 | --- | 6,300 | --- | --- | --- | 1,090 | 5,100 | 15,000 |
| 30 | 654 | --- | 5,800 | --- | --- | --- | 1,320 | 7,000 | 24,900 |
| 31 | 632 | 3,100 | 5,290 | --- | --- | --- | 1,900 | 5,000 | 25,700 |
| TOTAL | 29,225 | --- | 258,540 | 28,462 | --- | 366,730 | 32,647 | --- | 332,730 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 2,080 | --- | 34,000 | 1,650 | 3,940 | 17,600 | 1,390 | --- | 41,000 |
| 2 | 2,030 | --- | 33,000 | 1,720 | 4,400 | 20,400 | 1,340 | --- | 33,000 |
| 3 | 2,060 | --- | 37,000 | 1,800 | 6,350 | 30,900 | 1,250 | --- | 31,000 |
| 4 | 1,740 | 4,070 | 19,100 | 1,600 | 4,440 | 19,200 | 1,440 | --- | 47,000 |
| 5 | 1,520 | 4,250 | 17,400 | 1,500 | 3,320 | 13,400 | 1,590 | --- | 50,000 |
| 6 | 1,490 | 3,900 | 15,700 | 1,480 | 3,200 | 12,800 | 1,820 | --- | 65,000 |
| 7 | 1,500 | 4,550 | 18,400 | 1,420 | --- | 13,000 | 4,870 | 33,600 | 469,000 |
| 8 | 1,480 | 4,500 | 18,000 | 1,350 | 2,940 | 10,700 | 4,130 | 14,400 | 161,000 |
| 9 | 1,480 | 4,000 | 16,000 | 1,320 | --- | 10,000 | 3,410 | 12,700 | 117,000 |
| 10 | 1,620 | 4,380 | 19,200 | 1,390 | --- | 13,000 | 2,400 | 10,700 | 69,300 |
| 11 | 2,190 | 11,100 | 65,600 | 1,370 | --- | 13,000 | 2,020 | --- | 49,000 |
| 12 | 2,180 | 7,280 | 42,900 | 1,330 | --- | 13,000 | 1,920 | --- | 47,000 |
| 13 | 1,910 | 6,120 | 31,600 | 1,360 | --- | 14,000 | 1,740 | --- | 40,000 |
| 14 | 1,680 | 5,000 | 22,700 | 1,470 | --- | 17,000 | 1,620 | --- | 37,000 |
| 15 | 1,610 | 5,100 | 22,200 | 1,420 | --- | 17,000 | 1,750 | --- | 44,000 |
| 16 | 1,640 | 4,720 | 20,900 | 1,570 | --- | 22,000 | 1,510 | --- | 35,000 |
| 17 | 1,430 | 4,400 | 17,000 | 1,680 | 5,920 | 26,900 | 1,330 | --- | 28,000 |
| 18 | 1,360 | 4,440 | 16,300 | 1,860 | 7,440 | 37,400 | 1,220 | --- | 25,000 |
| 19 | 1,420 | 4,410 | 16,900 | 1,820 | 7,500 | 36,900 | 1,210 | --- | 24,000 |
| 20 | 1,300 | 5,000 | 17,600 | 1,730 | 6,820 | 31,900 | 1,170 | 7,400 | 23,400 |
| 21 | 1,180 | 5,380 | 17,100 | 1,610 | 5,180 | 22,500 | 1,160 | --- | 23,000 |
| 22 | 1,250 | 5,640 | 19,000 | 1,740 | 5,800 | 27,200 | 1,090 | --- | 23,000 |
| 23 | 1,500 | 4,740 | 19,200 | 1,730 | --- | 29,000 | 1,040 | --- | 22,000 |
| 24 | 1,450 | 3,020 | 11,800 | 1,850 | 10,000 | 50,000 | 1,010 | --- | 22,000 |
| 25 | 1,490 | 2,140 | 8,610 | 2,140 | 19,300 | 112,000 | 984 | --- | 21,000 |
| 26 | 1,390 | 1,870 | 7,020 | 1,900 | 19,100 | 98,000 | 961 | --- | 21,000 |
| 27 | 1,710 | 3,490 | 17,400 | 1,720 | --- | 78,000 | 951 | --- | 20,000 |
| 28 | 2,200 | 3,300 | 19,600 | 1,650 | 17,100 | 76,200 | 955 | --- | 21,000 |
| 29 | 1,880 | 3,630 | 18,400 | 1,730 | 17,400 | 81,300 | 956 | --- | 22,000 |
| 30 | 1,670 | 3,530 | 15,900 | 1,690 | 17,600 | 80,300 | 912 | --- | 22,000 |
| 31 | --- | --- | --- | 1,390 | 12,200 | 45,800 | --- | --- | --- |
| TOTAL | 49,440 | --- | 655,530 | 49,990 | --- | 1,090,400 | 49,149 | --- | 1,652,700 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 888 | --- | 21,000 | 660 | --- | 9,600 | 420 | --- | 2,600 |
| 2 | 902 | --- | 23,000 | 621 | --- | 8,200 | 410 | --- | 2,400 |
| 3 | 904 | --- | 23,000 | 604 | --- | 7,800 | 400 | --- | 2,300 |
| 4 | 890 | --- | 23,000 | 623 | --- | 8,500 | 390 | --- | 2,200 |
| 5 | 849 | --- | 22,000 | 600 | --- | 7,800 | 400 | --- | 2,300 |
| 6 | 846 | --- | 22,000 | 600 | --- | 7,800 | 430 | --- | 3,600 |
| 7 | 821 | --- | 21,000 | 625 | --- | 8,500 | 400 | --- | 2,300 |
| 8 | 812 | --- | 21,000 | 654 | 5,250 | 9,270 | 388 | --- | 2,200 |
| 9 | 799 | 9,500 | 20,500 | 581 | --- | 7,100 | 406 | --- | 2,400 |
| 10 | 767 | --- | 18,000 | 582 | --- | 6,900 | 489 | --- | 3,400 |
| 11 | 766 | --- | 18,000 | 567 | --- | 6,600 | 419 | 2,210 | 2,500 |
| 12 | 763 | --- | 17,000 | 537 | --- | 5,700 | 401 | --- | 2,400 |
| 13 | 725 | --- | 15,000 | 547 | --- | 5,700 | 419 | --- | 2,500 |
| 14 | 691 | --- | 14,000 | 538 | --- | 5,300 | 437 | --- | 2,700 |
| 15 | 679 | --- | 13,000 | 529 | --- | 5,100 | 442 | --- | 2,700 |
| 16 | 685 | --- | 13,000 | 514 | --- | 4,700 | 445 | --- | 2,800 |
| 17 | 693 | --- | 13,000 | 478 | --- | 4,300 | 543 | --- | 4,000 |
| 18 | 693 | --- | 12,000 | 458 | --- | 3,600 | 496 | --- | 3,400 |
| 19 | 671 | --- | 11,000 | 456 | --- | 3,400 | 492 | --- | 3,300 |
| 20 | 652 | --- | 10,000 | 469 | --- | 3,600 | 468 | --- | 3,000 |
| 21 | 644 | --- | 10,000 | 464 | --- | 3,300 | 450 | --- | 2,800 |
| 22 | 638 | --- | 9,400 | 449 | --- | 3,100 | 429 | --- | 2,500 |
| 23 | 623 | --- | 8,700 | 423 | 2,400 | 2,740 | 405 | --- | 2,200 |
| 24 | 615 | 4,950 | 8,220 | 411 | --- | 2,600 | 398 | --- | 2,100 |
| 25 | 620 | --- | 8,500 | 403 | --- | 2,400 | 391 | --- | 2,000 |
| 26 | 611 | --- | 8,200 | 416 | --- | 2,600 | 375 | --- | 1,800 |
| 27 | 590 | --- | 7,500 | 426 | --- | 2,600 | 361 | --- | 1,700 |
| 28 | 587 | --- | 7,500 | 432 | --- | 2,800 | 363 | --- | 1,700 |
| 29 | 552 | --- | 6,700 | 440 | --- | 2,900 | 357 | --- | 1,700 |
| 30 | 571 | --- | 7,000 | 440 | --- | 2,900 | 350 | --- | 1,600 |
| 31 | 644 | --- | 9,000 | 435 | --- | 2,900 | --- | --- | --- |
| TOTAL | 22,191 | --- | 441,220 | 15,982 | --- | 160,310 | 12,574 | --- | 75,100 |
| YEAR | 437,961 | | 9,120,850 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 369 | 1,800 | 1,790 | 1,590 | --- | 20,000 | 960 | --- | 8,800 |
| 2 | 348 | --- | 1,600 | 1,430 | --- | 16,000 | 1,010 | --- | 9,600 |
| 3 | 340 | --- | 1,500 | 1,590 | --- | 19,000 | 1,300 | --- | 15,000 |
| 4 | 323 | --- | 1,400 | 3,030 | --- | 56,000 | 1,270 | 4,000 | 13,700 |
| 5 | 336 | --- | 1,500 | 3,660 | 4,720 | 46,600 | 1,360 | 3,600 | 13,200 |
| 6 | 356 | --- | 1,600 | 4,700 | 6,930 | 87,900 | 2,240 | 6,330 | 38,300 |
| 7 | 408 | --- | 2,000 | 4,450 | 7,790 | 93,600 | 3,140 | 7,300 | 61,900 |
| 8 | 407 | 1,800 | 1,980 | 3,980 | 7,220 | 77,600 | 2,450 | 5,500 | 36,400 |
| 9 | 397 | --- | 1,900 | 3,010 | 6,080 | 49,400 | 1,940 | 4,200 | 22,000 |
| 10 | 390 | --- | 1,800 | 2,320 | 4,750 | 29,800 | 1,640 | 3,800 | 16,800 |
| 11 | 411 | --- | 2,000 | 1,850 | --- | 23,000 | 1,430 | 3,700 | 14,300 |
| 12 | 413 | --- | 2,000 | 1,580 | --- | 19,000 | 1,250 | 3,400 | 11,500 |
| 13 | 399 | --- | 2,000 | 1,330 | --- | 14,000 | 1,100 | 3,200 | 9,500 |
| 14 | 399 | --- | 2,000 | 1,180 | 3,700 | 11,800 | 993 | 2,800 | 7,510 |
| 15 | 415 | --- | 2,100 | 1,300 | --- | 14,000 | 904 | 2,500 | 6,100 |
| 16 | 518 | --- | 3,000 | 1,620 | --- | 21,000 | 862 | 2,700 | 6,280 |
| 17 | 484 | --- | 2,800 | 1,530 | --- | 19,000 | 846 | 2,700 | 6,170 |
| 18 | 463 | --- | 2,700 | 1,380 | --- | 15,000 | 825 | 2,500 | 5,570 |
| 19 | 518 | --- | 3,200 | 1,330 | --- | 14,000 | 820 | 2,500 | 5,530 |
| 20 | 804 | --- | 7,300 | 1,320 | 3,900 | 13,900 | 823 | 2,500 | 5,560 |
| 21 | 1,030 | --- | 12,000 | 1,240 | --- | 13,000 | 819 | 2,200 | 4,860 |
| 22 | 1,430 | --- | 22,000 | 1,200 | --- | 12,000 | 820 | 2,200 | 4,870 |
| 23 | 1,620 | 6,500 | 28,400 | 1,130 | --- | 11,000 | 820 | 2,200 | 4,870 |
| 24 | 2,160 | --- | 41,000 | 1,090 | --- | 10,000 | 843 | 2,500 | 5,690 |
| 25 | 3,640 | 11,500 | 113,000 | 1,100 | --- | 10,000 | 862 | 2,500 | 5,820 |
| 26 | 2,410 | 7,780 | 50,600 | 1,080 | --- | 10,000 | 873 | 2,300 | 5,420 |
| 27 | 2,140 | 5,600 | 38,700 | 1,100 | --- | 10,000 | 882 | 2,200 | 5,240 |
| 28 | 3,380 | 7,340 | 67,000 | 1,080 | --- | 10,000 | 868 | 2,300 | 5,390 |
| 29 | 2,260 | 4,940 | 30,100 | 1,050 | --- | 10,000 | 863 | 2,000 | 4,660 |
| 30 | 1,840 | 5,600 | 27,800 | 1,010 | --- | 9,600 | 846 | 1,900 | 4,340 |
| 31 | 1,740 | --- | 24,000 | --- | --- | --- | 829 | 1,900 | 4,250 |
| TOTAL | 32,148 | --- | 500,770 | 55,260 | --- | 766,200 | 36,488 | --- | 369,130 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,010 | 3,300 | 9,000 | 1,520 | 4,600 | 18,900 | 2,310 | --- | 55,000 |
| 2 | 1,020 | 2,800 | 7,710 | 1,420 | 4,600 | 17,600 | 2,140 | --- | 47,000 |
| 3 | 1,140 | 3,300 | 10,200 | 1,370 | 4,200 | 15,500 | 2,090 | --- | 42,000 |
| 4 | 1,060 | 2,200 | 6,300 | 1,290 | 3,600 | 12,500 | 2,110 | --- | 37,000 |
| 5 | 1,160 | 2,500 | 7,830 | 1,300 | 4,200 | 14,700 | 2,050 | --- | 33,000 |
| 6 | 1,530 | 3,460 | 14,300 | 1,170 | 3,900 | 12,300 | 1,920 | --- | 29,000 |
| 7 | 1,310 | 2,500 | 15,000 | 1,110 | 3,600 | 10,800 | 2,300 | 10,800 | 67,100 |
| 8 | 1,350 | 2,700 | 9,840 | 1,100 | 3,600 | 10,700 | 2,550 | 9,900 | 68,200 |
| 9 | 1,440 | 2,700 | 10,500 | 1,050 | 3,600 | 10,200 | 2,430 | 8,140 | 53,400 |
| 10 | 1,520 | 2,900 | 11,900 | 1,020 | 3,300 | 9,090 | 2,040 | 6,600 | 36,400 |
| 11 | 1,450 | 3,300 | 12,900 | 958 | 3,000 | 7,760 | 2,200 | 10,400 | 61,800 |
| 12 | 1,300 | 3,100 | 10,900 | 924 | 3,000 | 7,480 | 2,070 | 10,100 | 56,400 |
| 13 | 1,230 | 3,000 | 9,960 | 921 | 3,000 | 7,460 | 2,070 | 9,600 | 53,700 |
| 14 | 1,180 | 3,100 | 9,880 | 998 | 3,300 | 8,890 | 1,940 | 8,800 | 46,100 |
| 15 | 1,180 | 2,900 | 9,240 | 2,310 | 5,700 | 35,600 | 1,760 | 7,200 | 34,200 |
| 16 | 1,430 | 3,800 | 14,700 | 3,190 | 7,630 | 65,700 | 1,570 | 6,800 | 28,800 |
| 17 | 1,630 | 4,400 | 19,400 | 2,190 | 5,200 | 30,700 | 1,480 | 7,600 | 30,400 |
| 18 | 3,430 | 11,800 | 109,000 | 1,780 | 5,400 | 26,000 | 1,510 | 8,400 | 34,200 |
| 19 | 4,610 | 18,200 | 128,000 | 1,540 | 6,000 | 24,900 | 1,490 | 6,800 | 27,400 |
| 20 | 3,310 | 11,400 | 102,000 | 1,490 | 5,500 | 22,100 | 1,410 | 6,400 | 24,400 |
| 21 | 2,340 | 9,990 | 63,100 | 1,530 | 6,600 | 27,300 | 1,440 | 6,400 | 24,900 |
| 22 | 2,530 | 10,700 | 73,100 | 2,460 | 8,300 | 55,100 | 1,390 | 6,000 | 22,500 |
| 23 | 3,240 | 10,700 | 93,600 | 11,200 | 31,000 | 1,100,000 | 1,500 | 6,800 | 27,500 |
| 24 | 2,570 | 7,900 | 54,800 | 11,500 | 29,700 | 986,000 | 2,020 | 7,000 | 38,200 |
| 25 | 2,090 | 7,200 | 40,600 | 5,890 | 20,200 | 321,000 | 1,820 | 5,600 | 27,500 |
| 26 | 1,790 | 6,800 | 32,900 | 4,720 | 13,500 | 172,000 | 1,710 | 4,600 | 21,200 |
| 27 | 1,630 | 5,600 | 24,600 | 3,490 | 11,600 | 109,000 | 1,590 | 4,200 | 18,000 |
| 28 | 1,500 | 5,600 | 22,700 | 2,740 | 9,840 | 72,800 | 1,510 | 4,000 | 16,300 |
| 29 | 1,460 | 5,600 | 22,100 | --- | --- | --- | 1,400 | 4,700 | 17,800 |
| 30 | 1,640 | 5,200 | 23,000 | --- | --- | --- | 1,520 | 5,400 | 22,200 |
| 31 | 1,420 | 4,900 | 18,800 | --- | --- | --- | 1,370 | 5,100 | 18,900 |
| TOTAL | 55,500 | --- | 997,860 | 72,181 | --- | 3,212,080 | 56,710 | --- | 1,120,500 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 1,330 | 5,100 | 18,300 | 1,270 | 3,520 | 12,100 | 1,190 | 3,440 | 11,100 |
| 2 | 1,320 | 4,600 | 16,400 | 1,310 | 4,400 | 15,600 | 1,080 | 2,730 | 7,960 |
| 3 | 1,150 | 3,900 | 12,100 | 1,270 | 3,960 | 13,600 | 1,010 | --- | 6,600 |
| 4 | 1,110 | 3,300 | 9,890 | 1,270 | 4,350 | 14,900 | 949 | --- | 6,300 |
| 5 | 1,080 | 3,300 | 9,620 | 1,530 | 5,220 | 21,600 | 917 | --- | 6,100 |
| 6 | 1,050 | 3,300 | 9,360 | 1,440 | 3,480 | 13,500 | 904 | --- | 5,900 |
| 7 | 1,040 | 3,000 | 8,420 | 1,410 | 3,040 | 11,600 | 877 | --- | 5,800 |
| 8 | 1,060 | 2,700 | 7,730 | 1,460 | 3,440 | 13,600 | 825 | --- | 5,100 |
| 9 | 1,110 | 3,300 | 9,890 | 1,590 | 3,220 | 13,800 | 776 | --- | 4,700 |
| 10 | 1,100 | 3,300 | 9,800 | 1,480 | 3,820 | 15,300 | 748 | --- | 4,400 |
| 11 | 1,120 | 3,600 | 10,900 | 1,550 | 3,610 | 15,100 | 737 | --- | 4,400 |
| 12 | 1,130 | 3,300 | 10,100 | 1,530 | 3,150 | 13,000 | 716 | --- | 4,100 |
| 13 | 1,120 | 3,000 | 9,070 | 2,380 | 6,720 | 43,200 | 683 | --- | 3,800 |
| 14 | 1,040 | 2,400 | 6,740 | 2,390 | 4,560 | 29,400 | 668 | --- | 3,700 |
| 15 | 1,100 | 2,700 | 8,020 | 2,220 | 4,100 | 24,600 | 632 | --- | 3,300 |
| 16 | 1,180 | 3,600 | 11,500 | 1,880 | 3,690 | 18,700 | 608 | 1,930 | 3,170 |
| 17 | 1,270 | 3,600 | 12,300 | 1,700 | 3,440 | 15,800 | 613 | --- | 3,200 |
| 18 | 1,270 | 4,200 | 14,400 | 1,600 | 3,200 | 13,800 | 650 | --- | 3,600 |
| 19 | 1,180 | 4,200 | 13,400 | 1,610 | 2,760 | 12,000 | 639 | --- | 3,400 |
| 20 | 1,120 | 3,800 | 11,500 | 1,960 | 5,070 | 26,800 | 591 | --- | 3,000 |
| 21 | 1,130 | 4,000 | 12,200 | 1,780 | 3,660 | 17,600 | 581 | --- | 2,800 |
| 22 | 1,170 | 4,600 | 14,500 | 1,640 | 3,230 | 14,300 | 545 | --- | 2,300 |
| 23 | 1,140 | 3,800 | 11,700 | 1,480 | 2,960 | 11,800 | 522 | --- | 2,100 |
| 24 | 1,150 | 3,500 | 10,900 | 1,380 | 2,520 | 9,390 | 516 | --- | 2,100 |
| 25 | 1,230 | 4,400 | 14,600 | 1,410 | 2,620 | 9,970 | 512 | --- | 2,000 |
| 26 | 1,210 | 4,400 | 14,400 | 1,490 | 3,740 | 15,000 | 505 | --- | 1,800 |
| 27 | 1,290 | 4,400 | 15,300 | 1,430 | 2,970 | 11,500 | 484 | --- | 1,700 |
| 28 | 1,450 | 4,800 | 18,800 | 1,330 | 2,400 | 8,620 | 473 | --- | 1,600 |
| 29 | 1,430 | 4,400 | 17,000 | 1,310 | 2,790 | 9,870 | 473 | --- | 1,500 |
| 30 | 1,340 | 3,600 | 13,000 | 1,330 | 3,420 | 12,300 | 461 | --- | 1,400 |
| 31 | --- | --- | --- | 1,300 | 3,300 | 11,600 | --- | --- | --- |
| TOTAL | 35,420 | --- | 361,840 | 48,730 | --- | 489,950 | 20,885 | --- | 118,930 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 448 | --- | 1,400 | 383 | --- | 510 | 249 | --- | 75 |
| 2 | 439 | --- | 1,300 | 375 | --- | 430 | 244 | --- | 70 |
| 3 | 430 | --- | 1,100 | 359 | --- | 390 | 238 | --- | 65 |
| 4 | 469 | --- | 1,400 | 349 | --- | 370 | 233 | --- | 60 |
| 5 | 425 | --- | 1,100 | 342 | --- | 310 | 231 | --- | 60 |
| 6 | 404 | --- | 950 | 343 | --- | 310 | 229 | --- | 55 |
| 7 | 395 | --- | 950 | 329 | 290 | 258 | 228 | --- | 55 |
| 8 | 384 | --- | 870 | 327 | --- | 250 | 251 | --- | 130 |
| 9 | 388 | --- | 920 | 332 | --- | 260 | 314 | 575 | 487 |
| 10 | 445 | --- | 1,200 | 338 | --- | 270 | 276 | --- | 150 |
| 11 | 473 | --- | 1,400 | 330 | --- | 250 | 261 | --- | 120 |
| 12 | 427 | --- | 1,100 | 316 | --- | 200 | 253 | --- | 75 |
| 13 | 417 | --- | 1,000 | 318 | --- | 200 | 249 | --- | 60 |
| 14 | 407 | 899 | 988 | 307 | --- | 180 | 252 | --- | 60 |
| 15 | 415 | --- | 1,000 | 299 | --- | 170 | 251 | --- | 60 |
| 16 | 582 | --- | 2,400 | 295 | --- | 160 | 275 | --- | 75 |
| 17 | 607 | --- | 2,500 | 290 | --- | 140 | 276 | 119 | 89 |
| 18 | 526 | --- | 1,900 | 285 | --- | 130 | 299 | 376 | 304 |
| 19 | 484 | --- | 1,600 | 283 | --- | 120 | 285 | 157 | 121 |
| 20 | 458 | --- | 1,400 | 273 | --- | 110 | 282 | 381 | 290 |
| 21 | 441 | --- | 1,300 | 267 | --- | 110 | 268 | --- | 95 |
| 22 | 436 | 1,120 | 1,320 | 262 | --- | 100 | 261 | --- | 85 |
| 23 | 442 | --- | 1,300 | 257 | --- | 90 | 367 | --- | 740 |
| 24 | 451 | --- | 1,200 | 254 | --- | 80 | 564 | 955 | 1,450 |
| 25 | 446 | --- | 1,100 | 251 | --- | 75 | 509 | --- | 1,100 |
| 26 | 444 | --- | 1,100 | 244 | --- | 70 | 556 | --- | 1,300 |
| 27 | 435 | --- | 1,000 | 240 | --- | 65 | 433 | --- | 750 |
| 28 | 425 | --- | 840 | 238 | 100 | 64 | 472 | --- | 900 |
| 29 | 408 | --- | 720 | 241 | --- | 65 | 589 | --- | 1,500 |
| 30 | 391 | --- | 580 | 255 | --- | 80 | 566 | --- | 1,400 |
| 31 | 382 | --- | 540 | 260 | --- | 80 | --- | --- | --- |
| TOTAL | 13,724 | --- | 37,478 | 9,242 | --- | 5,897 | 9,761 | --- | 11,781 |
| YEAR | 446,049 | | 7,992,416 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 502 | --- | 1,200 | 880 | 2,450 | 5,820 | 1,640 | 6,060 | 26,800 |
| 2 | 434 | --- | 830 | 732 | --- | 3,200 | 1,520 | 6,120 | 25,100 |
| 3 | 400 | --- | 680 | 616 | --- | 2,000 | 1,270 | 6,090 | 20,900 |
| 4 | 377 | --- | 580 | 541 | --- | 1,400 | 1,230 | 5,160 | 17,100 |
| 5 | 359 | --- | 500 | 550 | --- | 1,300 | 1,410 | 6,400 | 24,400 |
| 6 | 351 | --- | 470 | 665 | --- | 1,800 | 1,250 | 4,280 | 14,400 |
| 7 | 337 | --- | 400 | 1,100 | 4,360 | 12,900 | 1,170 | 4,060 | 12,800 |
| 8 | 331 | --- | 390 | 1,070 | 1,640 | 4,740 | 1,110 | 3,710 | 11,100 |
| 9 | 324 | --- | 350 | 948 | 1,470 | 3,760 | 1,050 | --- | 10,000 |
| 10 | 316 | 384 | 328 | 820 | 1,080 | 2,390 | 1,010 | --- | 9,800 |
| 11 | 302 | --- | 270 | 833 | 1,490 | 3,350 | 1,020 | --- | 9,900 |
| 12 | 290 | --- | 220 | 913 | 1,910 | 4,710 | 1,020 | --- | 9,900 |
| 13 | 285 | --- | 200 | 887 | 1,720 | 4,120 | 1,060 | --- | 10,000 |
| 14 | 280 | --- | 190 | 877 | 1,510 | 3,580 | 1,230 | --- | 14,000 |
| 15 | 278 | --- | 180 | 879 | 1,340 | 3,180 | 1,140 | 4,110 | 12,700 |
| 16 | 274 | --- | 170 | 993 | 2,670 | 7,800 | 1,070 | --- | 11,000 |
| 17 | 272 | --- | 160 | 1,340 | 4,210 | 15,200 | 1,020 | --- | 9,900 |
| 18 | 276 | --- | 170 | 1,480 | 6,960 | 30,800 | 957 | --- | 8,800 |
| 19 | 277 | --- | 180 | 1,650 | 5,580 | 24,900 | 912 | --- | 7,600 |
| 20 | 261 | --- | 140 | 2,990 | 11,100 | 103,000 | 872 | --- | 6,600 |
| 21 | 254 | --- | 120 | 4,640 | 9,570 | 120,000 | 895 | --- | 6,000 |
| 22 | 250 | --- | 110 | 6,100 | 7,680 | 126,000 | 1,280 | 8,260 | 37,500 |
| 23 | 247 | --- | 100 | 6,830 | 11,300 | 220,000 | 1,950 | 8,320 | 46,500 |
| 24 | 246 | --- | 100 | 9,860 | 13,100 | 349,000 | 1,660 | 4,620 | 20,700 |
| 25 | 320 | --- | 450 | 5,270 | 9,300 | 132,000 | 1,600 | 4,380 | 18,900 |
| 26 | 519 | --- | 19,000 | 3,520 | 8,290 | 78,800 | 1,900 | 5,680 | 29,100 |
| 27 | 738 | --- | 30,000 | 2,870 | 8,310 | 64,400 | 1,710 | 3,340 | 15,400 |
| 28 | 699 | --- | 8,000 | 2,580 | 7,480 | 52,100 | 1,560 | 3,190 | 13,400 |
| 29 | 643 | --- | 3,400 | 1,970 | 6,080 | 32,300 | 2,130 | 7,210 | 44,600 |
| 30 | 921 | 6,970 | 17,300 | 1,660 | 6,000 | 26,900 | 2,200 | 4,930 | 29,300 |
| 31 | 1,090 | 4,270 | 12,600 | --- | --- | --- | 1,760 | 4,380 | 20,800 |
| TOTAL | 12,453 | --- | 98,788 | 66,064 | --- | 1,441,450 | 41,606 | --- | 555,000 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,870 | 4,870 | 24,600 | 8,210 | 28,700 | 711,000 | 1,310 | 6,700 | 23,700 |
| 2 | 1,850 | 3,710 | 18,500 | 5,130 | 12,400 | 172,000 | 2,240 | 8,770 | 53,000 |
| 3 | 2,210 | 6,410 | 38,200 | 3,350 | --- | 100,000 | 5,870 | 28,000 | 501,000 |
| 4 | 1,990 | 5,470 | 29,400 | 4,080 | --- | 140,000 | 5,490 | 19,900 | 312,000 |
| 5 | 1,720 | 4,610 | 21,400 | 2,910 | --- | 92,000 | 3,700 | 13,800 | 138,000 |
| 6 | 1,450 | 3,740 | 14,600 | 2,050 | --- | 52,000 | 3,010 | 12,400 | 101,000 |
| 7 | 1,350 | --- | 15,000 | 1,790 | --- | 40,000 | 2,490 | 9,790 | 65,800 |
| 8 | 1,300 | 4,070 | 14,300 | 1,630 | --- | 34,000 | 2,180 | 8,020 | 47,200 |
| 9 | 1,190 | 4,110 | 13,200 | 1,470 | --- | 29,000 | 1,900 | 8,740 | 44,800 |
| 10 | 1,140 | --- | 9,500 | 1,290 | --- | 22,000 | 1,960 | --- | 58,000 |
| 11 | 1,150 | --- | 9,000 | 1,230 | 5,900 | 19,600 | 1,740 | --- | 43,000 |
| 12 | 1,610 | 5,560 | 24,200 | 1,160 | --- | 18,000 | 2,180 | 11,200 | 65,900 |
| 13 | 1,510 | 4,220 | 17,200 | 1,270 | --- | 20,000 | 2,800 | 9,840 | 74,400 |
| 14 | 1,520 | 4,030 | 16,500 | 1,270 | --- | 20,000 | 3,150 | 6,720 | 57,200 |
| 15 | 1,290 | --- | 10,000 | 1,100 | --- | 17,000 | 3,010 | 5,770 | 46,900 |
| 16 | 1,200 | --- | 9,000 | 1,090 | --- | 17,000 | 2,730 | 5,680 | 41,900 |
| 17 | 1,160 | --- | 8,100 | 1,010 | --- | 16,000 | 2,650 | 6,850 | 49,000 |
| 18 | 1,170 | --- | 7,800 | 916 | --- | 15,000 | 2,500 | 7,460 | 50,400 |
| 19 | 1,110 | --- | 6,700 | 881 | 5,940 | 14,100 | 2,250 | 6,070 | 36,900 |
| 20 | 1,060 | --- | 5,900 | 833 | 6,180 | 13,900 | 1,920 | 5,310 | 27,500 |
| 21 | 1,030 | --- | 5,500 | 807 | 5,080 | 11,100 | 1,660 | 5,200 | 23,300 |
| 22 | 1,000 | --- | 5,100 | 885 | 5,790 | 13,800 | 1,480 | 5,430 | 21,700 |
| 23 | 1,050 | --- | 5,700 | 873 | 4,760 | 11,200 | 1,480 | 5,500 | 22,000 |
| 24 | 1,230 | --- | 8,500 | 801 | 4,060 | 8,780 | 1,440 | 4,390 | 17,100 |
| 25 | 1,240 | --- | 8,800 | 742 | 3,650 | 7,310 | 1,320 | 4,050 | 14,400 |
| 26 | 1,420 | --- | 12,000 | 698 | 3,370 | 6,350 | 1,260 | 4,180 | 14,200 |
| 27 | 1,850 | 5,560 | 27,800 | 690 | --- | 5,600 | 1,220 | 4,060 | 13,400 |
| 28 | 2,190 | 5,280 | 31,200 | 699 | 5,360 | 10,100 | 1,180 | 4,260 | 13,600 |
| 29 | 1,880 | 3,450 | 17,500 | --- | --- | --- | 1,120 | 3,810 | 11,500 |
| 30 | 1,810 | 3,340 | 16,300 | --- | --- | --- | 1,050 | 2,900 | 8,220 |
| 31 | 2,640 | 5,670 | 49,200 | --- | --- | --- | 1,000 | 2,840 | 7,670 |
| TOTAL | 46,190 | --- | 500,700 | 48,865 | --- | 1,636,840 | 69,290 | --- | 2,004,690 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 956 | 3,050 | 7,870 | 1,560 | --- | 10,000 | 969 | 2,950 | 7,720 |
| 2 | 958 | 3,100 | 8,020 | 1,580 | --- | 10,000 | 829 | 2,540 | 5,690 |
| 3 | 1,110 | 4,560 | 13,700 | 1,480 | --- | 8,900 | 785 | 2,720 | 5,770 |
| 4 | 1,170 | 4,000 | 12,600 | 1,230 | --- | 5,800 | 787 | 2,120 | 4,500 |
| 5 | 1,160 | 3,290 | 10,300 | 1,100 | --- | 4,400 | 800 | 2,440 | 5,270 |
| 6 | 1,130 | 3,870 | 11,800 | 1,170 | 1,800 | 5,690 | 794 | 2,140 | 4,590 |
| 7 | 1,160 | 2,730 | 8,550 | 1,350 | --- | 9,000 | 780 | 2,440 | 5,140 |
| 8 | 1,430 | 4,020 | 15,500 | 1,200 | --- | 6,800 | 755 | 2,440 | 4,970 |
| 9 | 1,370 | 2,590 | 9,580 | 1,120 | --- | 6,200 | 733 | 2,290 | 4,530 |
| 10 | 1,440 | 3,440 | 13,400 | 1,230 | --- | 8,700 | 697 | 2,080 | 3,910 |
| 11 | 1,590 | 3,540 | 15,200 | 1,320 | --- | 10,000 | 657 | 2,220 | 3,940 |
| 12 | 1,630 | 2,860 | 12,600 | 1,720 | 4,030 | 18,700 | 638 | 2,580 | 4,440 |
| 13 | 1,600 | --- | 12,000 | 1,280 | --- | 11,000 | 640 | 2,930 | 5,060 |
| 14 | 1,600 | 4,180 | 18,100 | 1,250 | --- | 11,000 | 650 | 2,610 | 4,580 |
| 15 | 1,610 | 3,940 | 17,100 | 1,200 | --- | 10,000 | 648 | 2,510 | 4,390 |
| 16 | 1,410 | 3,690 | 14,000 | 1,080 | --- | 8,500 | 641 | 1,900 | 3,290 |
| 17 | 1,590 | 4,400 | 18,900 | 994 | --- | 6,600 | 615 | 1,770 | 2,940 |
| 18 | 1,430 | 4,620 | 17,800 | 913 | --- | 5,600 | 572 | 1,500 | 2,320 |
| 19 | 1,470 | 3,570 | 14,200 | 902 | --- | 5,700 | 549 | 1,370 | 2,030 |
| 20 | 1,420 | 3,220 | 12,300 | 820 | --- | 4,400 | 547 | 1,650 | 2,440 |
| 21 | 1,400 | 2,870 | 10,800 | 787 | --- | 4,000 | 588 | 1,910 | 3,030 |
| 22 | 1,400 | 2,430 | 9,190 | 776 | --- | 4,100 | 596 | 1,300 | 2,090 |
| 23 | 1,360 | 1,740 | 6,390 | 747 | --- | 3,600 | 560 | 1,070 | 1,620 |
| 24 | 1,380 | 2,080 | 7,750 | 724 | --- | 3,600 | 537 | 1,040 | 1,510 |
| 25 | 1,290 | --- | 6,400 | 726 | --- | 4,000 | 523 | 1,290 | 1,820 |
| 26 | 1,320 | --- | 6,900 | 739 | --- | 4,400 | 511 | 1,220 | 1,680 |
| 27 | 1,400 | --- | 7,800 | 730 | 2,300 | 4,530 | 501 | 1,140 | 1,540 |
| 28 | 1,580 | --- | 10,000 | 743 | 2,720 | 5,460 | 497 | 978 | 1,310 |
| 29 | 1,470 | --- | 8,800 | 726 | 2,100 | 4,120 | 488 | 1,030 | 1,360 |
| 30 | 1,430 | --- | 8,200 | 889 | 4,520 | 11,800 | 477 | 1,050 | 1,350 |
| 31 | --- | --- | --- | 1,150 | 4,930 | 15,300 | --- | --- | --- |
| TOTAL | 41,264 | --- | 346,150 | 33,236 | --- | 232,500 | 19,364 | --- | 104,830 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 472 | 971 | 1,240 | 325 | 441 | 387 | 242 | 93 | 61 |
| 2 | 467 | 1,170 | 1,480 | 316 | 472 | 403 | 245 | 98 | 65 |
| 3 | 459 | 986 | 1,220 | 310 | 451 | 377 | 248 | 99 | 66 |
| 4 | 449 | 1,100 | 1,330 | 303 | 438 | 358 | 243 | 72 | 47 |
| 5 | 496 | 1,380 | 1,850 | 303 | 434 | 355 | 241 | 73 | 48 |
| 6 | 474 | 802 | 1,030 | 304 | 451 | 370 | 239 | 55 | 35 |
| 7 | 448 | --- | 820 | 298 | 425 | 342 | 236 | 62 | 40 |
| 8 | 440 | 748 | 889 | 292 | 356 | 281 | 236 | 56 | 36 |
| 9 | 432 | 1,000 | 1,170 | 287 | 322 | 250 | 236 | 49 | 31 |
| 10 | 446 | 521 | 627 | 286 | 289 | 223 | 235 | 41 | 26 |
| 11 | 428 | 339 | 392 | 288 | 270 | 210 | 235 | 48 | 30 |
| 12 | 419 | 268 | 303 | 285 | 310 | 239 | 243 | 41 | 27 |
| 13 | 419 | 280 | 317 | 303 | 546 | 447 | 246 | 41 | 27 |
| 14 | 420 | 303 | 344 | 338 | 1,040 | 949 | 257 | 122 | 93 |
| 15 | 408 | --- | 360 | 321 | --- | 460 | 300 | 324 | 262 |
| 16 | 410 | 316 | 350 | 304 | --- | 330 | 271 | 111 | 81 |
| 17 | 405 | --- | 370 | 293 | 269 | 213 | 256 | 134 | 93 |
| 18 | 424 | --- | 580 | 286 | 193 | 149 | 249 | 68 | 46 |
| 19 | 395 | --- | 320 | 279 | 174 | 131 | 244 | 55 | 36 |
| 20 | 363 | --- | 300 | 276 | 179 | 133 | 243 | 47 | 31 |
| 21 | 356 | 205 | 197 | 275 | 176 | 131 | 241 | 46 | 30 |
| 22 | 359 | 153 | 148 | 270 | 177 | 129 | 239 | 36 | 23 |
| 23 | 370 | 143 | 143 | 269 | 188 | 137 | 237 | 35 | 22 |
| 24 | 390 | 1,320 | 1,390 | 267 | 148 | 107 | 237 | 33 | 21 |
| 25 | 374 | 719 | 726 | 260 | 209 | 147 | 244 | 41 | 27 |
| 26 | 365 | 523 | 515 | 258 | 142 | 99 | 267 | 102 | 74 |
| 27 | 355 | 504 | 483 | 256 | 122 | 84 | 256 | 51 | 35 |
| 28 | 346 | 466 | 435 | 253 | 109 | 74 | 245 | 37 | 24 |
| 29 | 341 | 459 | 423 | 252 | 81 | 55 | 237 | 35 | 22 |
| 30 | 335 | 451 | 408 | 250 | 97 | 65 | 235 | 35 | 22 |
| 31 | 332 | 460 | 412 | 247 | 102 | 68 | --- | --- | --- |
| TOTAL | 12,597 | --- | 20,572 | 8,854 | --- | 7,703 | 7,383 | --- | 1,481 |
| YEAR | 407,166 | | 6,950,704 TONS | | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 21... | 1115 | 11.0 | 446 | 10.0 | 5,100 | 6,140 | -- | -- | -- |
| NOV | | | | | | | | | |
| 01... | 1450 | 11.5 | 834 | 20.0 | 18,900 | 42,600 | -- | -- | -- |
| 03... | 1250 | 13.0 | 5,800 | 20.0 | 196,000 | 3,070,000 | 11 | 12 | 18 |
| 03... | 1810 | -- | 3,830 | 20.0 | 128,000 | 1,320,000 | -- | -- | -- |
| 04... | 1235 | -- | 2,850 | 20.0 | 43,800 | 337,000 | 5 | 6 | 11 |
| 08... | 1450 | -- | 2,140 | 20.0 | 18,100 | 105,000 | -- | -- | -- |
| 14... | 1310 | 6.0 | 3,400 | 20.0 | 27,200 | 250,000 | -- | -- | -- |
| 17... | 1130 | 8.0 | 5,250 | 20.0 | 34,000 | 482,000 | 7 | 8 | 11 |
| 17... | 1515 | 8.0 | 5,290 | 20.0 | 33,000 | 471,000 | 3 | 5 | 9 |
| 18... | 1345 | -- | 5,000 | 20.0 | 25,200 | 340,000 | -- | -- | -- |
| 20... | 1320 | -- | 3,610 | 20.0 | 17,700 | 173,000 | -- | -- | -- |
| 22... | 1605 | 7.0 | 2,650 | 20.0 | 12,300 | 88,000 | -- | -- | -- |
| 28... | 1215 | 8.0 | 2,500 | 20.0 | 10,800 | 72,900 | -- | -- | -- |
| DEC | | | | | | | | | |
| 05... | 1345 | 5.5 | 1,280 | 20.0 | 9,790 | 33,800 | -- | -- | -- |
| 13... | 1215 | 7.5 | 2,620 | 20.0 | 11,600 | 82,100 | -- | -- | -- |
| 21... | 1355 | -- | 1,060 | 20.0 | 4,610 | 13,200 | 7 | 10 | 14 |
| 30... | 1120 | 4.0 | 2,220 | 20.0 | 17,200 | 103,000 | 10 | 11 | 15 |
| JAN | | | | | | | | | |
| 04... | 1240 | 8.5 | 4,390 | 20.0 | 22,200 | 263,000 | -- | -- | -- |
| 06... | 1515 | 8.5 | 2,920 | 20.0 | 17,200 | 136,000 | -- | -- | -- |
| 10... | 1300 | 7.0 | 2,000 | 10.0 | 15,800 | 85,300 | -- | -- | -- |
| 18... | 1305 | 0.1 | 1,040 | 20.0 | 8,950 | 25,100 | -- | -- | -- |
| 24... | 1355 | 7.0 | 8,830 | 20.0 | 40,000 | 954,000 | 8 | 8 | 14 |
| 25... | 1300 | 6.5 | 7,940 | 20.0 | 29,600 | 635,000 | 7 | 8 | 12 |
| 31... | 1355 | 6.0 | 1,990 | 20.0 | 14,600 | 78,400 | -- | -- | -- |
| FEB | | | | | | | | | |
| 06... | 1115 | 7.5 | 1,100 | 20.0 | 8,530 | 25,300 | -- | -- | -- |
| 13... | 1326 | 6.5 | 3,140 | 20.0 | 13,400 | 114,000 | -- | -- | -- |
| 13... | 1328 | 6.5 | 3,140 | 20.0 | 14,400 | 122,000 | 7 | 8 | 9 |
| 21... | 1310 | 6.0 | 1,950 | 20.0 | 9,360 | 49,300 | -- | -- | -- |
| 27... | 1320 | 6.5 | 1,400 | 20.0 | 7,120 | 26,900 | -- | -- | -- |
| MAR | | | | | | | | | |
| 08... | 1405 | 9.0 | 1,210 | 20.0 | 7,760 | 25,400 | -- | -- | -- |
| 21... | 1345 | 4.5 | 3,310 | 20.0 | 6,010 | 53,700 | -- | -- | -- |
| 26... | 1320 | 7.5 | 2,710 | 20.0 | 7,040 | 51,500 | -- | -- | -- |
| 29... | 1115 | 6.5 | 2,270 | 20.0 | 6,120 | 37,500 | -- | -- | -- |
| APR | | | | | | | | | |
| 04... | 1200 | 7.5 | 1,520 | 20.0 | 5,610 | 23,000 | -- | -- | -- |
| 04... | 1205 | -- | 1,520 | 20.0 | 4,990 | 20,500 | -- | -- | -- |
| 10... | 1345 | 5.0 | 2,630 | 20.0 | 6,830 | 48,500 | -- | -- | -- |
| 20... | 1200 | 8.5 | 1,630 | 20.0 | 5,750 | 24,600 | -- | -- | -- |
| 27... | 1135 | 11.0 | 1,220 | 20.0 | 5,100 | 16,800 | -- | -- | -- |
| MAY | | | | | | | | | |
| 03... | 1440 | 9.0 | 2,150 | 20.0 | 6,560 | 38,100 | -- | -- | -- |
| 14... | 1325 | -- | 2,330 | 20.0 | 4,780 | 30,100 | -- | -- | -- |
| 14... | 1450 | 11.5 | 2,870 | 20.0 | 44,300 | 343,000 | 21 | 23 | 38 |
| 14... | 1610 | -- | 2,480 | 20.0 | 82,700 | 554,000 | 13 | 20 | 35 |
| 22... | 1510 | 9.0 | 2,040 | 20.0 | 13,500 | 74,400 | -- | -- | -- |
| JUN | | | | | | | | | |
| 01... | 1410 | 12.0 | 1,630 | 20.0 | 10,100 | 44,500 | -- | -- | -- |
| 12... | 1345 | 12.5 | 1,550 | 20.0 | 6,820 | 28,500 | -- | -- | -- |
| 21... | 1250 | 11.0 | 3,720 | 20.0 | 10,200 | 102,000 | -- | -- | -- |
| 29... | 1320 | 13.0 | 1,920 | 20.0 | 8,760 | 45,400 | -- | -- | -- |
| JUL | | | | | | | | | |
| 12... | 1350 | 15.0 | 860 | 20.0 | 5,380 | 12,500 | -- | -- | -- |
| 25... | 1215 | 20.0 | 620 | 20.0 | 5,020 | 8,400 | -- | -- | -- |
| AUG | | | | | | | | | |
| 01... | 1315 | 17.0 | 410 | 20.0 | 3,120 | 3,450 | -- | -- | -- |
| 09... | 1250 | 16.5 | 327 | 10.0 | 2,020 | 1,780 | -- | -- | -- |
| 14... | 1410 | 22.0 | 310 | 10.0 | 1,420 | 1,190 | -- | -- | -- |
| SEP | | | | | | | | | |
| 04... | 1345 | 19.5 | 244 | 10.0 | 1,160 | 764 | -- | -- | -- |
| 19... | 1105 | 16.0 | 270 | 10.0 | 1,420 | 1,040 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 21... | -- | -- | 37 | 58 | 86 | 98 | 100 | -- |
| NOV | | | | | | | | |
| 01... | -- | -- | 61 | -- | -- | -- | -- | -- |
| 03... | 31 | 45 | 61 | 76 | 93 | 99 | 100 | -- |
| 03... | -- | -- | 62 | 82 | 96 | 99 | 100 | -- |
| 04... | 18 | 28 | 38 | 46 | 74 | 98 | 100 | -- |
| 08... | -- | -- | 29 | -- | -- | -- | -- | -- |
| 14... | -- | -- | 42 | 59 | 83 | 97 | 100 | -- |
| 17... | 19 | 28 | 38 | 50 | 80 | 97 | 100 | -- |
| 17... | 15 | 23 | 33 | 48 | 75 | 96 | 100 | -- |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | -- | 37 | 55 | 82 | 96 | 100 | -- |
| 22... | -- | -- | 34 | 49 | 73 | 96 | 99 | 100 |
| 28... | -- | -- | 37 | 55 | 80 | 97 | 100 | -- |
| DEC | | | | | | | | |
| 05... | -- | -- | 37 | 53 | 79 | 96 | 100 | -- |
| 13... | -- | -- | 31 | 43 | 71 | 92 | 98 | 100 |
| 21... | 19 | 25 | 30 | 39 | 66 | 94 | 100 | -- |
| 30... | 28 | 39 | 50 | 64 | 86 | 98 | 100 | -- |
| JAN | | | | | | | | |
| 04... | -- | -- | 43 | 59 | 80 | 85 | 98 | 100 |
| 06... | -- | -- | 35 | 50 | 74 | 93 | 98 | 99 |
| 10... | -- | -- | 33 | 46 | 73 | 93 | 98 | 99 |
| 18... | -- | -- | 39 | 53 | 75 | 94 | 99 | 100 |
| 24... | 24 | 35 | 47 | 61 | 79 | 94 | 99 | 100 |
| 25... | 20 | 29 | 42 | 56 | 84 | 96 | 99 | 100 |
| 31... | -- | -- | 39 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | |
| 06... | -- | -- | 29 | 47 | 74 | 95 | 100 | -- |
| 13... | -- | -- | 39 | 54 | 81 | 97 | 100 | -- |
| 13... | 18 | 26 | 36 | 51 | 76 | 94 | 99 | 100 |
| 21... | -- | -- | 35 | 55 | 78 | 95 | 99 | 100 |
| 27... | -- | -- | 35 | 49 | 76 | 94 | 99 | 100 |
| MAR | | | | | | | | |
| 08... | -- | -- | 41 | 55 | 81 | 96 | 100 | -- |
| 21... | -- | -- | 40 | 55 | 81 | 96 | 100 | -- |
| 26... | -- | -- | 36 | 50 | 76 | 93 | 99 | 100 |
| 29... | -- | -- | 28 | 41 | 66 | 90 | 98 | 100 |
| APR | | | | | | | | |
| 04... | -- | -- | 37 | -- | -- | -- | -- | -- |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | -- | -- | 34 | 51 | 77 | 81 | 99 | 100 |
| 20... | -- | -- | 45 | -- | -- | -- | -- | -- |
| 27... | -- | -- | 40 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | |
| 03... | -- | -- | 39 | 55 | 80 | 96 | 99 | 100 |
| 14... | -- | -- | 34 | 49 | 71 | 91 | 98 | 100 |
| 14... | 60 | 78 | 91 | 95 | 98 | 99 | 100 | -- |
| 14... | 54 | 74 | 85 | 92 | 97 | 99 | 100 | -- |
| 22... | -- | -- | 38 | 55 | 78 | 93 | 99 | 100 |
| JUN | | | | | | | | |
| 01... | -- | -- | 43 | 45 | 74 | 94 | 100 | -- |
| 12... | -- | -- | 46 | -- | -- | -- | -- | -- |
| 21... | -- | -- | 36 | 53 | 78 | 95 | 99 | 100 |
| 29... | -- | -- | 39 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 12... | -- | -- | 42 | 59 | 85 | 98 | 100 | -- |
| 25... | -- | -- | 50 | 66 | 88 | 99 | 100 | -- |
| AUG | | | | | | | | |
| 01... | -- | -- | 30 | 42 | 72 | 96 | 97 | 98 |
| 09... | -- | -- | 31 | 48 | 81 | 97 | 100 | -- |
| 14... | -- | -- | 38 | 54 | 82 | 98 | 100 | -- |
| SEP | | | | | | | | |
| 04... | -- | -- | 28 | -- | -- | -- | -- | -- |
| 19... | -- | -- | 21 | 32 | 67 | 94 | 99 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 04... | 1215 | 13.5 | 400 | 10.0 | 4,360 | 4,710 | -- | -- | -- | -- | -- |
| 25... | 1705 | 11.0 | 1,530 | 20.0 | 18,600 | 76,800 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 01... | 1330 | 6.0 | 1,060 | 20.0 | 6,500 | 18,600 | -- | -- | -- | -- | -- |
| 02... | 1520 | -- | 4,990 | 20.0 | 38,200 | 515,000 | 9 | 12 | 17 | 30 | 45 |
| 03... | 1440 | 7.5 | 4,540 | 20.0 | 17,700 | 217,000 | -- | -- | -- | -- | -- |
| 08... | 1430 | 6.5 | 1,580 | 20.0 | 15,300 | 65,300 | -- | -- | -- | -- | -- |
| 16... | 1355 | 5.5 | 1,770 | 20.0 | 8,320 | 39,800 | -- | -- | -- | -- | -- |
| 26... | 1420 | 7.5 | 1,340 | 20.0 | 7,240 | 26,200 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 04... | 1240 | 3.0 | 1,440 | 20.0 | 5,980 | 23,300 | -- | -- | -- | -- | -- |
| 12... | 1345 | 4.0 | 1,300 | 20.0 | 5,400 | 19,000 | -- | -- | -- | -- | -- |
| 19... | 1435 | 0.5 | 1,090 | 20.0 | 4,560 | 13,400 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 03... | 1505 | 4.5 | 1,030 | 20.0 | 2,680 | 7,450 | -- | -- | -- | -- | -- |
| 09... | 1350 | 3.0 | 1,100 | 20.0 | 3,200 | 9,500 | -- | -- | -- | -- | -- |
| 16... | 1345 | 5.0 | 925 | 20.0 | 3,590 | 8,970 | -- | -- | -- | -- | -- |
| 23... | 1305 | 3.5 | 935 | 20.0 | 3,640 | 9,190 | -- | -- | -- | -- | -- |
| 31... | 1025 | 2.5 | 635 | 20.0 | 3,080 | 5,280 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 07... | 1400 | 2.5 | 725 | 10.0 | 2,880 | 5,640 | -- | -- | -- | -- | -- |
| 13... | 1245 | 2.5 | 995 | 20.0 | 3,140 | 8,440 | -- | -- | -- | -- | -- |
| 21... | 1140 | 5.5 | 1,030 | 20.0 | 3,380 | 9,400 | 3 | 5 | 9 | 15 | 21 |
| 21... | 1325 | 5.5 | 1,040 | 20.0 | 3,950 | 11,100 | -- | -- | -- | -- | -- |
| 28... | 1330 | 5.5 | 1,270 | 20.0 | 3,380 | 11,600 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 06... | 1120 | 4.0 | 1,000 | 20.0 | 2,600 | 7,020 | -- | -- | -- | -- | -- |
| 13... | 1350 | 7.0 | 715 | 20.0 | 2,350 | 4,540 | -- | -- | -- | -- | -- |
| 21... | 1300 | 4.5 | 1,160 | 20.0 | 3,420 | 10,700 | -- | -- | -- | -- | -- |
| 26... | 1120 | 4.0 | 1,270 | 20.0 | 4,350 | 14,900 | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 05... | 1235 | 9.5 | 1,490 | 20.0 | 3,850 | 15,500 | -- | -- | -- | -- | -- |
| 11... | 1410 | 11.5 | 2,140 | 20.0 | 9,040 | 52,200 | -- | -- | -- | -- | -- |
| 18... | 1300 | 7.5 | 1,350 | 20.0 | 4,020 | 14,700 | -- | -- | -- | -- | -- |
| 23... | 1155 | 6.0 | 1,500 | 20.0 | 4,020 | 16,300 | -- | -- | -- | -- | -- |
| 30... | 1330 | 9.0 | 1,660 | 20.0 | 3,160 | 14,200 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 08... | 1320 | -- | 1,340 | 20.0 | 3,020 | 10,900 | -- | -- | -- | -- | -- |
| 17... | 1400 | 14.0 | 1,720 | 20.0 | 5,400 | 25,100 | -- | -- | -- | -- | -- |
| 28... | 1425 | 13.0 | 1,620 | 20.0 | 19,400 | 84,900 | 13 | 15 | 20 | 34 | 48 |
| 31... | 1245 | 10.5 | 1,370 | 20.0 | 12,600 | 46,600 | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 07... | 1555 | 11.0 | 6,050 | 20.0 | 29,100 | 475,000 | 10 | 12 | 18 | 29 | 43 |
| 08... | 1145 | 9.5 | 4,000 | 20.0 | 15,200 | 164,000 | 7 | 8 | 14 | 23 | 33 |
| 10... | 1340 | 12.0 | 2,320 | 20.0 | 10,300 | 64,500 | 9 | 11 | 14 | 22 | 31 |
| 20... | 1640 | 19.0 | 1,150 | 20.0 | 7,510 | 23,300 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 09... | 1340 | 20.0 | 805 | 20.0 | 10,600 | 23,000 | -- | -- | -- | -- | -- |
| 24... | 1330 | 17.0 | 625 | 20.0 | 4,810 | 8,120 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 08... | 1415 | 19.0 | 670 | 20.0 | 5,540 | 10,000 | -- | -- | -- | -- | -- |
| 23... | 1415 | 18.5 | 420 | 20.0 | 2,150 | 2,440 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 11... | 1310 | 12.5 | 415 | 20.0 | 2,150 | 2,410 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 04... | -- | 39 | -- | 57 | -- | 86 | -- | 97 | -- | 99 | 100 |
| 25... | -- | 47 | -- | 68 | -- | 89 | -- | 99 | -- | 100 | -- |
| NOV | | | | | | | | | | | |
| 01... | -- | 32 | -- | 45 | -- | 72 | -- | 95 | -- | 100 | -- |
| 02... | -- | 57 | -- | 76 | -- | 92 | -- | 98 | -- | 100 | -- |
| 03... | -- | 40 | -- | 61 | -- | 84 | -- | 95 | -- | 99 | 100 |
| 08... | -- | 45 | -- | 61 | -- | 84 | -- | 98 | -- | 100 | -- |
| 16... | -- | 40 | -- | 55 | -- | 78 | -- | 95 | -- | 99 | 100 |
| 26... | -- | 38 | -- | 55 | -- | 80 | -- | 97 | -- | 100 | -- |
| DEC | | | | | | | | | | | |
| 04... | -- | 33 | -- | 49 | -- | 75 | -- | 93 | -- | 100 | -- |
| 12... | -- | 33 | -- | 51 | -- | 82 | -- | 97 | -- | 99 | 100 |
| 19... | -- | 29 | -- | 45 | -- | 76 | -- | 95 | -- | 99 | 100 |
| JAN | | | | | | | | | | | |
| 03... | -- | 37 | -- | 52 | -- | 79 | -- | 95 | -- | 99 | 100 |
| 09... | -- | 21 | -- | 33 | -- | 61 | -- | 88 | -- | 98 | 100 |
| 16... | -- | 26 | -- | 44 | -- | 73 | -- | 95 | -- | 100 | -- |
| 23... | -- | 26 | -- | 44 | -- | 76 | -- | 97 | -- | 100 | -- |
| 31... | -- | 25 | -- | 42 | -- | 74 | -- | 96 | -- | 100 | -- |
| FEB | | | | | | | | | | | |
| 07... | -- | 22 | -- | 33 | -- | 71 | -- | 96 | -- | 100 | -- |
| 13... | -- | 38 | -- | 47 | -- | 66 | -- | 95 | -- | 100 | -- |
| 21... | -- | 30 | -- | 43 | -- | 67 | -- | 93 | -- | 100 | -- |
| 21... | -- | 34 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | 28 | -- | 40 | -- | 65 | -- | 93 | -- | 99 | 100 |
| MAR | | | | | | | | | | | |
| 06... | -- | 26 | -- | 38 | -- | 63 | -- | 90 | -- | 99 | 100 |
| 13... | -- | 24 | -- | 36 | -- | 63 | -- | 92 | -- | 99 | 100 |
| 21... | 29 | 29 | 48 | -- | 76 | -- | 94 | -- | 100 | -- | -- |
| 26... | 42 | 42 | 58 | -- | 79 | -- | 95 | -- | 100 | -- | -- |
| APR | | | | | | | | | | | |
| 05... | 26 | 19 | 42 | -- | 70 | -- | 92 | -- | 100 | -- | -- |
| 11... | 61 | 60 | 73 | -- | 88 | -- | 97 | -- | 100 | -- | -- |
| 18... | 36 | 38 | 56 | -- | 79 | -- | 93 | -- | 100 | -- | -- |
| 23... | 25 | 27 | 44 | -- | 75 | -- | 94 | -- | 100 | -- | -- |
| 30... | 19 | 20 | 30 | -- | 59 | -- | 90 | -- | 100 | -- | -- |
| MAY | | | | | | | | | | | |
| 08... | 30 | 33 | 43 | -- | 69 | -- | 91 | -- | 100 | -- | -- |
| 17... | 56 | 53 | 69 | -- | 86 | -- | 96 | -- | 100 | -- | -- |
| 28... | 63 | 61 | 81 | -- | 93 | -- | 99 | -- | 100 | -- | -- |
| 31... | 51 | 53 | 73 | -- | 90 | -- | 99 | -- | 100 | -- | -- |
| JUN | | | | | | | | | | | |
| 07... | -- | 57 | -- | 73 | -- | 90 | -- | 98 | -- | 99 | 100 |
| 08... | 49 | 49 | 69 | -- | 87 | -- | 98 | -- | 100 | -- | -- |
| 10... | 46 | 48 | 70 | -- | 91 | -- | 99 | -- | 100 | -- | -- |
| 20... | 38 | 42 | 60 | -- | 85 | -- | 98 | -- | 100 | -- | -- |
| JUL | | | | | | | | | | | |
| 09... | 48 | 51 | 72 | -- | 91 | -- | 98 | -- | 100 | -- | -- |
| 24... | 38 | 37 | 63 | -- | 91 | -- | 100 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 08... | 32 | 36 | 53 | -- | 84 | -- | 98 | -- | 100 | -- | -- |
| 23... | 29 | 31 | 51 | -- | 86 | -- | 99 | -- | 100 | -- | -- |
| SEP | | | | | | | | | | | |
| 11... | 80 | 31 | 84 | -- | 95 | -- | 100 | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 01... | 1555 | -- | 375 | 10.0 | 1,800 | 1,820 | -- | -- | -- | -- | -- | 25 |
| 08... | 1405 | -- | 400 | 20.0 | 1,760 | 1,900 | -- | -- | -- | -- | -- | 24 |
| 23... | 1555 | -- | 1,610 | 20.0 | 6,440 | 28,000 | -- | -- | -- | -- | -- | 28 |
| 25... | 1505 | -- | 3,710 | 20.0 | 10,100 | 101,000 | 7 | 7 | 14 | 22 | 32 | -- |
| 30... | 1610 | -- | 1,770 | 20.0 | 5,460 | 26,100 | -- | -- | -- | -- | -- | 32 |
| NOV | | | | | | | | | | | | |
| 07... | 1635 | -- | 4,440 | 20.0 | 7,980 | 95,700 | -- | -- | -- | -- | -- | 39 |
| 08... | 1420 | -- | 3,930 | 20.0 | 7,820 | 83,000 | -- | -- | -- | -- | -- | 37 |
| 14... | 1325 | -- | 1,160 | 20.0 | 3,730 | 11,700 | -- | -- | -- | -- | -- | 23 |
| 20... | 1300 | -- | 1,330 | 20.0 | 3,740 | 13,400 | -- | -- | -- | -- | -- | 19 |
| DEC | | | | | | | | | | | | |
| 04... | 1550 | -- | 1,300 | 20.0 | 4,010 | 14,100 | -- | -- | -- | -- | -- | -- |
| 18... | 1540 | -- | 825 | 20.0 | 2,390 | 5,320 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 06... | 1425 | -- | 1,450 | 20.0 | 2,820 | 11,000 | -- | -- | -- | -- | -- | -- |
| 16... | 1655 | -- | 1,460 | 20.0 | 3,840 | 15,100 | -- | -- | -- | -- | -- | 26 |
| 19... | 1115 | -- | 4,370 | 20.0 | 14,600 | 172,000 | 10 | 11 | 15 | 28 | 41 | 60 |
| 19... | 1335 | -- | 4,360 | 20.0 | 15,000 | 177,000 | -- | -- | -- | -- | -- | 53 |
| 21... | 1550 | -- | 2,280 | 20.0 | 8,940 | 55,000 | -- | -- | -- | -- | -- | -- |
| 29... | 1700 | -- | 1,460 | 20.0 | 5,590 | 22,000 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 13... | 1335 | 2.0 | 920 | 20.0 | 2,980 | 7,400 | -- | -- | -- | -- | -- | 25 |
| 16... | 1810 | -- | 2,760 | 20.0 | 6,360 | 47,400 | -- | -- | -- | -- | -- | -- |
| 18... | 1335 | 5.0 | 1,700 | 20.0 | 5,020 | 23,000 | -- | -- | -- | -- | -- | -- |
| 24... | 1155 | -- | 10,200 | 20.0 | 31,300 | 862,000 | -- | -- | -- | -- | -- | -- |
| 24... | 1455 | -- | 9,760 | 20.0 | 21,900 | 577,000 | 7 | 8 | 12 | 22 | 31 | -- |
| 24... | 1705 | -- | 7,150 | 20.0 | 22,200 | 429,000 | -- | -- | -- | -- | -- | -- |
| 26... | 1345 | 8.5 | 4,480 | 20.0 | 12,500 | 151,000 | -- | -- | -- | -- | -- | 43 |
| MAR | | | | | | | | | | | | |
| 12... | 1505 | -- | 2,070 | 20.0 | 10,200 | 57,000 | -- | -- | -- | -- | -- | 38 |
| APR | | | | | | | | | | | | |
| 02... | 1335 | -- | 1,330 | 20.0 | 4,620 | 16,600 | -- | -- | -- | -- | -- | 29 |
| 21... | 1355 | -- | 1,140 | 20.0 | 3,960 | 12,200 | -- | -- | -- | -- | -- | 22 |
| 30... | 1410 | -- | 1,380 | 20.0 | 3,560 | 13,300 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 01... | 28 | 41 | -- | 79 | -- | 98 | -- | 100 | -- | -- | -- |
| 08... | 31 | 40 | -- | 81 | -- | 99 | -- | 100 | -- | -- | -- |
| 23... | 28 | 50 | -- | 81 | -- | 86 | -- | 96 | -- | 100 | -- |
| 25... | 41 | -- | 56 | -- | 83 | -- | 96 | -- | 99 | -- | 100 |
| 30... | 32 | 47 | -- | 70 | -- | 89 | -- | 99 | -- | 100 | -- |
| NOV | | | | | | | | | | | |
| 07... | 34 | 60 | -- | 85 | -- | 98 | -- | 100 | -- | -- | -- |
| 08... | 37 | 55 | -- | 77 | -- | 91 | -- | 99 | -- | 100 | -- |
| 14... | 25 | 36 | -- | 67 | -- | 89 | -- | 99 | -- | 100 | -- |
| 20... | 18 | 32 | -- | 61 | -- | 89 | -- | 98 | -- | 100 | -- |
| DEC | | | | | | | | | | | |
| 04... | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 06... | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 29 | 41 | -- | 65 | -- | 90 | -- | 99 | -- | 100 | -- |
| 19... | 59 | 79 | -- | 93 | -- | 99 | -- | 100 | -- | -- | -- |
| 19... | 53 | 70 | -- | 86 | -- | 97 | -- | 100 | -- | -- | -- |
| 21... | 41 | -- | 54 | -- | 73 | -- | 92 | -- | 99 | -- | 100 |
| 29... | 24 | -- | 37 | -- | 61 | -- | 86 | -- | 98 | -- | 100 |
| FEB | | | | | | | | | | | |
| 13... | 24 | 40 | -- | 74 | -- | 95 | -- | 99 | -- | 100 | -- |
| 16... | 31 | -- | 43 | -- | 64 | -- | 85 | -- | 96 | -- | 99 |
| 18... | 27 | -- | 38 | -- | 58 | -- | 85 | -- | 98 | -- | 100 |
| 24... | 35 | -- | 54 | -- | 75 | -- | 90 | -- | 97 | -- | 99 |
| 24... | 42 | -- | 61 | -- | 83 | -- | 95 | -- | 99 | -- | 100 |
| 24... | 42 | -- | 59 | -- | 80 | -- | 93 | -- | 98 | -- | 100 |
| 26... | 41 | 65 | -- | 88 | -- | 97 | -- | 100 | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 12... | 38 | 62 | -- | 87 | -- | 97 | -- | 100 | -- | -- | -- |
| APR | | | | | | | | | | | |
| 02... | 32 | 45 | -- | 72 | -- | 93 | -- | 100 | -- | -- | -- |
| 21... | 33 | 35 | -- | 66 | -- | 91 | -- | 100 | -- | -- | -- |
| 30... | 21 | -- | 34 | -- | 64 | -- | 87 | -- | 99 | -- | 100 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 21... | 1410 | 1,700 | 20.0 | 3120 | 14,300 | 23 | 34 | 34 | 60 | 84 | 96 | 100 |
| JUN | | | | | | | | | | | | |
| 02... | 1340 | 1,090 | 20.0 | 2730 | 8,030 | 40 | 44 | 54 | 80 | 96 | 100 | -- |
| 16... | 1350 | 615 | 20.0 | 1930 | 3,200 | -- | 32 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 14... | 1655 | 408 | 10.0 | 899 | 990 | -- | -- | -- | -- | -- | -- | -- |
| 22... | 1335 | 441 | 20.0 | 1120 | 1,330 | -- | 28 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 07... | 1450 | 330 | 20.0 | 287 | 256 | -- | 35 | -- | -- | -- | -- | -- |
| 28... | 1325 | 241 | 10.0 | 100 | 65 | -- | 27 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 09... | 1225 | 313 | 10.0 | 428 | 362 | -- | 35 | -- | -- | -- | -- | -- |
| 17... | 1520 | 275 | 10.0 | 104 | 77 | -- | 27 | -- | -- | -- | -- | -- |
| 24... | 1510 | 570 | 20.0 | 948 | 1,460 | -- | 46 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 10... | 1225 | -- | 316 | 20.0 | 384 | 328 | -- | -- | -- | -- | -- | -- |
| 31... | 1400 | -- | 1,110 | 20.0 | 4,140 | 12,400 | 2 | 5 | 9 | 14 | 22 | 34 |
| NOV | | | | | | | | | | | | |
| 11... | 1425 | -- | 830 | 20.0 | 1,810 | 4,060 | -- | -- | -- | -- | -- | 32 |
| 20... | 1225 | -- | 3,470 | 20.0 | 24,400 | 229,000 | -- | -- | -- | -- | -- | 63 |
| 20... | 1615 | 8.5 | 3,870 | 20.0 | 15,800 | 165,000 | -- | -- | -- | -- | -- | 55 |
| 21... | 1545 | -- | 4,300 | 20.0 | 8,780 | 102,000 | 5 | 6 | 9 | 15 | 22 | 32 |
| 22... | 1310 | -- | 5,000 | 20.0 | 7,760 | 105,000 | 6 | 7 | 10 | 17 | 26 | 39 |
| 22... | 1445 | -- | 4,950 | 20.0 | 6,980 | 93,300 | -- | -- | -- | -- | -- | 36 |
| 24... | 1050 | -- | 12,600 | 20.0 | 16,100 | 548,000 | 6 | 7 | 12 | 16 | 25 | 38 |
| 24... | 1530 | -- | 9,730 | 20.0 | 12,000 | 315,000 | -- | -- | -- | -- | -- | 41 |
| 25... | 1140 | -- | 5,340 | 20.0 | 9,580 | 138,000 | -- | -- | -- | -- | -- | 44 |
| DEC | | | | | | | | | | | | |
| 04... | 1335 | -- | 1,210 | 20.0 | 4,460 | 14,600 | -- | -- | -- | -- | -- | 28 |
| 15... | 1330 | -- | 1,140 | 20.0 | 4,000 | 12,300 | -- | -- | -- | -- | -- | -- |
| 29... | 1410 | -- | 2,180 | 20.0 | 7,060 | 41,600 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 13... | 1420 | -- | 1,450 | 20.0 | 3,680 | 14,400 | -- | -- | -- | -- | -- | -- |
| 27... | 1315 | -- | 1,740 | 20.0 | 3,880 | 18,200 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1010 | -- | 9,280 | 20.0 | 46,400 | 1,160,000 | -- | -- | -- | -- | -- | -- |
| 01... | 1150 | -- | 9,130 | 20.0 | 30,100 | 742,000 | -- | -- | -- | -- | -- | -- |
| 01... | 1530 | -- | 7,080 | 20.0 | 20,100 | 384,000 | 7 | 8 | 10 | 19 | 28 | -- |
| 02... | 1400 | -- | 4,670 | 20.0 | 12,400 | 156,000 | -- | -- | -- | -- | -- | -- |
| 11... | 1340 | -- | 1,260 | 20.0 | 5,940 | 20,200 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 02... | 1300 | -- | 2,220 | 20.0 | 8,750 | 52,400 | -- | -- | -- | -- | -- | 26 |
| 04... | 1015 | -- | 5,830 | 20.0 | 17,800 | 280,000 | 9 | 9 | 12 | 23 | 33 | 47 |
| 04... | 1245 | -- | 5,170 | 20.0 | 17,900 | 250,000 | -- | -- | -- | -- | -- | 48 |
| 09... | 1305 | -- | 1,830 | 20.0 | 9,050 | 44,700 | -- | -- | -- | -- | -- | 32 |
| 26... | 1615 | -- | 1,260 | 20.0 | 3,850 | 13,100 | -- | -- | -- | -- | -- | 31 |
| APR | | | | | | | | | | | | |
| 02... | 1425 | -- | 958 | 20.0 | 2,900 | 7,500 | -- | -- | -- | -- | -- | -- |
| 16... | 1315 | -- | 1,390 | 20.0 | 3,560 | 13,400 | -- | -- | -- | -- | -- | -- |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 06... | 1315 | 16.5 | 1,170 | 20.0 | 1,770 | 5,590 | -- | 34 | -- |
| 12... | 1350 | 12.5 | 1,780 | 20.0 | 4,500 | 21,600 | -- | 35 | -- |
| 27... | 1315 | 11.0 | 737 | 20.0 | 2,280 | 4,540 | -- | 26 | -- |
| JUN | | | | | | | | | |
| 10... | 1255 | 17.0 | 726 | 20.0 | 2,130 | 4,180 | -- | 43 | -- |
| 29... | 1255 | 23.0 | 501 | 20.0 | 1,020 | 1,380 | -- | 49 | -- |
| JUL | | | | | | | | | |
| 06... | 1415 | 18.5 | 472 | 20.0 | 637 | 812 | 30 | -- | 42 |
| 06... | 1416 | 18.5 | 472 | 20.0 | 645 | 822 | 29 | -- | 42 |
| 06... | 1422 | 18.5 | 472 | 20.0 | 619 | 789 | -- | 29 | -- |
| 06... | 1423 | 18.5 | 476 | 20.0 | 686 | 882 | -- | 26 | -- |
| 06... | 1435 | 18.5 | 476 | 20.0 | 690 | 887 | -- | 33 | -- |
| 16... | 1440 | 16.0 | 411 | 20.0 | 334 | 371 | -- | 28 | -- |
| 21... | 1525 | 23.5 | 356 | 20.0 | 148 | 142 | -- | -- | -- |
| 24... | 1220 | 17.5 | 368 | 20.0 | 890 | 884 | -- | 82 | -- |
| AUG | | | | | | | | | |
| 04... | 1320 | 21.0 | 307 | 20.0 | 435 | 361 | -- | 35 | -- |
| SEP | | | | | | | | | |
| 08... | 1300 | -- | 237 | 10.0 | 55 | 35 | -- | 60 | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 10... | 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | -- | 56 | -- | 83 | -- | 95 | -- | 99 | -- | 100 | -- |
| NOV | | | | | | | | | | | |
| 11... | -- | 49 | -- | 75 | -- | 95 | -- | 100 | -- | -- | -- |
| 20... | -- | 77 | -- | 92 | -- | 99 | -- | 100 | -- | -- | -- |
| 20... | -- | 74 | -- | 94 | -- | 99 | -- | 99 | -- | 100 | -- |
| 21... | -- | 50 | -- | 79 | -- | 97 | -- | 99 | -- | 100 | -- |
| 22... | -- | 61 | -- | 87 | -- | 97 | -- | 99 | -- | 100 | -- |
| 22... | -- | 56 | -- | 84 | -- | 98 | -- | 99 | -- | 100 | -- |
| 24... | -- | 58 | -- | 82 | -- | 93 | -- | 98 | -- | 100 | -- |
| 24... | -- | 59 | -- | 80 | -- | 96 | -- | 99 | -- | 100 | -- |
| 25... | -- | 62 | -- | 83 | -- | 96 | -- | 99 | -- | 100 | -- |
| DEC | | | | | | | | | | | |
| 04... | -- | 45 | -- | 71 | -- | 95 | -- | 100 | -- | -- | -- |
| 15... | 26 | -- | 37 | -- | 67 | -- | 93 | -- | 99 | -- | 100 |
| 29... | 30 | -- | 48 | -- | 72 | -- | 93 | -- | 99 | -- | 100 |
| JAN | | | | | | | | | | | |
| 13... | 16 | -- | 24 | -- | 44 | -- | 86 | -- | 98 | -- | 100 |
| 27... | 22 | -- | 31 | -- | 52 | -- | 84 | -- | 97 | -- | 100 |
| FEB | | | | | | | | | | | |
| 01... | 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | 45 | -- | 65 | -- | 84 | -- | 96 | -- | 99 | -- | 100 |
| 01... | 38 | -- | 56 | -- | 76 | -- | 91 | -- | 98 | -- | 99 |
| 02... | 40 | -- | 57 | -- | 77 | -- | 93 | -- | 100 | -- | -- |
| 11... | 30 | -- | 46 | -- | 71 | -- | 92 | -- | 98 | -- | 99 |
| MAR | | | | | | | | | | | |
| 02... | -- | 45 | -- | 76 | -- | 94 | -- | 99 | -- | 100 | -- |
| 04... | -- | 69 | -- | 91 | -- | 98 | -- | 100 | -- | -- | -- |
| 04... | -- | 69 | -- | 89 | -- | 98 | -- | 99 | -- | 100 | -- |
| 09... | -- | 48 | -- | 76 | -- | 94 | -- | 98 | -- | 100 | -- |
| 26... | -- | 47 | -- | 80 | -- | 99 | -- | 100 | -- | -- | -- |
| APR | | | | | | | | | | | |
| 02... | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 06... | -- | 74 | -- | 97 | -- | 100 | -- | -- |
| 06... | -- | 77 | -- | 99 | -- | 100 | -- | -- |
| 06... | 39 | -- | 68 | -- | 94 | -- | 98 | 100 |
| 06... | 36 | -- | 63 | -- | 89 | -- | 93 | 96 |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | |
| 30... | 1140 | 0 | 3 | 13 | 39 | 70 | 88 | 95 | 99 | 100 | -- |
| 30... | 1145 | 0 | 2 | 12 | 37 | 58 | 73 | 85 | 93 | 100 | -- |
| 30... | 1150 | 0 | 2 | 9 | 21 | 33 | 50 | 64 | 75 | 86 | 100 |
| 30... | 1155 | 0 | 0 | 3 | 7 | 14 | 60 | 90 | 98 | 100 | -- |
| JAN | | | | | | | | | | | |
| 04... | 1255 | 1 | 5 | 21 | 62 | 80 | 86 | 90 | 92 | 96 | 100 |
| 04... | 1300 | 0 | 1 | 5 | 16 | 40 | 60 | 75 | 88 | 100 | -- |
| 04... | 1305 | 1 | 2 | 7 | 20 | 41 | 62 | 78 | 87 | 94 | 100 |
| 04... | 1310 | 0 | 2 | 6 | 20 | 42 | 64 | 81 | 91 | 100 | -- |
| 04... | 1315 | 0 | 1 | 2 | 3 | 6 | 17 | 49 | 84 | 96 | 100 |
| 10... | 1320 | 0 | 1 | 9 | 32 | 57 | 73 | 80 | 85 | 89 | 100 |
| 10... | 1325 | 0 | 2 | 12 | 34 | 67 | 82 | 88 | 94 | 100 | -- |
| 25... | 1355 | 0 | 1 | 2 | 10 | 46 | 80 | 95 | 99 | 100 | -- |
| 25... | 1400 | 1 | 5 | 13 | 20 | 26 | 30 | 35 | 38 | 41 | 100 |
| 25... | 1405 | 1 | 2 | 8 | 16 | 29 | 49 | 72 | 87 | 100 | -- |
| 25... | 1410 | 0 | 2 | 6 | 18 | 50 | 72 | 81 | 88 | 97 | 100 |
| 25... | 1415 | 0 | 1 | 2 | 3 | 5 | 14 | 36 | 66 | 92 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | | | |
| 16... | 1430 | 0 | 0 | 0 | 0 | 0 | 11 | 65 | 94 | 100 | -- | -- |
| 16... | 1432 | 0 | 0 | 1 | 1 | 2 | 18 | 59 | 96 | 100 | -- | -- |
| 16... | 1434 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 13 | 13 | 100 |
| 16... | 1436 | 0 | 2 | 15 | 40 | 65 | 73 | 76 | 78 | 87 | 87 | 100 |
| 31... | 1108 | 0 | 0 | 1 | 1 | 1 | 7 | 47 | 91 | 100 | -- | -- |
| 31... | 1110 | 0 | 0 | 2 | 4 | 6 | 23 | 49 | 72 | 97 | 100 | -- |
| 31... | 1112 | 0 | 1 | 6 | 29 | 61 | 77 | 82 | 87 | 93 | 100 | -- |
| 31... | 1114 | 0 | 0 | 4 | 27 | 64 | 86 | 93 | 97 | 98 | 100 | -- |
| FEB | | | | | | | | | | | | |
| 07... | 1430 | 0 | 0 | 1 | 1 | 1 | 12 | 53 | 92 | 98 | 100 | -- |
| 07... | 1432 | 0 | 0 | 5 | 10 | 16 | 38 | 61 | 81 | 94 | 100 | -- |
| 07... | 1434 | 0 | 0 | 3 | 22 | 60 | 88 | 95 | 97 | 100 | -- | -- |
| 07... | 1436 | 0 | 0 | 3 | 17 | 38 | 50 | 59 | 73 | 83 | 100 | -- |
| 13... | 1310 | 0 | 0 | 0 | 0 | 0 | 3 | 30 | 75 | 94 | 100 | -- |
| 13... | 1315 | 0 | 0 | 2 | 3 | 6 | 31 | 60 | 80 | 98 | 100 | -- |
| 13... | 1320 | 0 | 0 | 2 | 10 | 23 | 34 | 40 | 47 | 59 | 85 | 100 |
| 13... | 1325 | 1 | 1 | 7 | 33 | 58 | 69 | 72 | 80 | 100 | -- | -- |
| 20... | 1200 | 13 | 38 | 76 | 95 | 99 | 99 | 100 | -- | -- | -- | -- |
| 20... | 1205 | 8 | 28 | 65 | 92 | 98 | 100 | -- | -- | -- | -- | -- |
| 20... | 1210 | 9 | 22 | 53 | 93 | 99 | 100 | -- | -- | -- | -- | -- |
| 20... | 1215 | 9 | 20 | 45 | 91 | 99 | 100 | -- | -- | -- | -- | -- |
| 20... | 1220 | 9 | 24 | 60 | 91 | 98 | 99 | 100 | -- | -- | -- | -- |
| 21... | 1615 | 0 | 2 | 13 | 31 | 37 | 40 | 41 | 41 | 41 | 100 | -- |
| 21... | 1617 | 0 | 1 | 6 | 20 | 36 | 50 | 59 | 78 | 100 | -- | -- |
| 21... | 1619 | 0 | 0 | 1 | 4 | 7 | 10 | 12 | 21 | 48 | 64 | 100 |
| 21... | 1621 | 0 | 0 | 2 | 14 | 45 | 70 | 80 | 90 | 100 | -- | -- |
| 21... | 1623 | 0 | 0 | 1 | 1 | 2 | 10 | 28 | 54 | 87 | 100 | -- |
| 28... | 1355 | 0 | 0 | 1 | 1 | 1 | 11 | 51 | 89 | 98 | 100 | -- |
| 28... | 1400 | 0 | 0 | 2 | 13 | 34 | 48 | 57 | 67 | 89 | 100 | -- |
| 28... | 1405 | 0 | 0 | 1 | 9 | 25 | 43 | 52 | 60 | 71 | 100 | -- |
| 28... | 1410 | 0 | 0 | 1 | 3 | 6 | 8 | 8 | 10 | 10 | 24 | 100 |
| 28... | 1415 | 0 | 2 | 18 | 72 | 92 | 96 | 98 | 100 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | | |
| 03... | 1420 | 0 | 0 | 1 | 1 | 1 | 13 | 53 | 91 | 100 | -- | -- |
| 03... | 1423 | 0 | 0 | 6 | 41 | 85 | 96 | 98 | 100 | -- | -- | -- |
| 03... | 1427 | 0 | 1 | 5 | 36 | 75 | 89 | 94 | 97 | 100 | -- | -- |
| 06... | 1411 | 0 | 0 | 2 | 12 | 38 | 55 | 62 | 69 | 73 | 100 | -- |
| 06... | 1425 | 0 | 0 | 2 | 12 | 29 | 38 | 46 | 61 | 76 | 100 | -- |
| 06... | 1428 | 0 | 0 | 3 | 5 | 6 | 20 | 45 | 70 | 94 | 100 | -- |
| 06... | 1442 | 0 | 0 | 2 | 11 | 30 | 41 | 49 | 59 | 91 | 100 | -- |
| 21... | 1320 | 0 | 0 | 0 | 1 | 1 | 19 | 54 | 86 | 98 | 100 | -- |
| 21... | 1322 | 0 | 0 | 2 | 11 | 26 | 37 | 46 | 61 | 83 | 100 | -- |
| 21... | 1324 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 21... | 1326 | 0 | 0 | 4 | 17 | 35 | 44 | 48 | 55 | 74 | 100 | -- |
| 26... | 1138 | 0 | 1 | 5 | 23 | 44 | 55 | 60 | 66 | 74 | 100 | -- |
| 26... | 1140 | 0 | 1 | 5 | 27 | 63 | 88 | 97 | 100 | -- | -- | -- |
| 26... | 1143 | 0 | 0 | 1 | 2 | 3 | 11 | 38 | 60 | 77 | 100 | -- |
| 26... | 1147 | 0 | 0 | 0 | 1 | 1 | 8 | 20 | 34 | 72 | 100 | -- |
| APR | | | | | | | | | | | | |
| 05... | 1315 | 0 | 0 | 3 | 22 | 71 | 93 | 98 | 100 | -- | -- | -- |
| 05... | 1320 | 0 | 0 | 3 | 20 | 58 | 80 | 90 | 96 | 100 | -- | -- |
| 11... | 1444 | 0 | 3 | 22 | 83 | 93 | 94 | 95 | 100 | -- | -- | -- |
| 11... | 1448 | 0 | 1 | 5 | 20 | 52 | 69 | 78 | 83 | 92 | 100 | -- |
| 11... | 1450 | 0 | 0 | 2 | 5 | 15 | 36 | 59 | 78 | 92 | 100 | -- |
| 11... | 1453 | 0 | 0 | 1 | 1 | 5 | 23 | 51 | 83 | 97 | 100 | -- |
| 18... | 1320 | 0 | 0 | 2 | 5 | 8 | 21 | 45 | 73 | 90 | 100 | -- |
| 18... | 1325 | 0 | 1 | 2 | 6 | 16 | 45 | 66 | 79 | 100 | -- | -- |
| 23... | 1331 | 0 | 0 | 1 | 7 | 24 | 64 | 82 | 99 | 100 | -- | -- |
| 23... | 1340 | 0 | 0 | 2 | 9 | 24 | 35 | 44 | 51 | 100 | -- | -- |
| 30... | 1520 | 0 | 0 | 2 | 14 | 44 | 64 | 75 | 84 | 88 | 100 | -- |
| 30... | 1525 | 0 | 0 | 1 | 4 | 10 | 18 | 27 | 40 | 78 | 100 | -- |
| 30... | 1529 | 0 | 0 | 1 | 8 | 24 | 37 | 50 | 67 | 80 | 100 | -- |
| 30... | 1533 | 0 | 0 | 1 | 4 | 7 | 15 | 30 | 66 | 95 | 100 | -- |
| MAY | | | | | | | | | | | | |
| 08... | 1340 | 0 | 0 | 2 | 14 | 32 | 49 | 62 | 80 | 93 | 100 | -- |
| 08... | 1342 | 0 | 0 | 1 | 7 | 17 | 27 | 39 | 61 | 86 | 100 | -- |
| 08... | 1345 | 0 | 0 | 2 | 9 | 18 | 22 | 25 | 35 | 75 | 100 | -- |
| 08... | 1350 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 7 | 16 | 26 | 100 |
| 28... | 1447 | 0 | 1 | 2 | 6 | 11 | 17 | 28 | 64 | 100 | -- | -- |
| 28... | 1455 | 1 | 4 | 12 | 23 | 35 | 44 | 51 | 60 | 90 | 100 | -- |
| 28... | 1458 | 0 | 1 | 2 | 11 | 30 | 49 | 67 | 86 | 98 | 100 | -- |
| 28... | 1504 | 1 | 1 | 6 | 23 | 43 | 62 | 80 | 94 | 100 | -- | -- |
| 31... | 1305 | 0 | 1 | 3 | 12 | 32 | 55 | 66 | 72 | 80 | 100 | -- |
| 31... | 1312 | 0 | 1 | 3 | 11 | 29 | 53 | 74 | 92 | 100 | -- | -- |
| 31... | 1319 | 0 | 1 | 3 | 10 | 23 | 35 | 55 | 84 | 93 | 100 | -- |
| 31... | 1322 | 0 | 3 | 9 | 25 | 44 | 59 | 74 | 94 | 100 | -- | -- |
| JUN | | | | | | | | | | | | |
| 07... | 1635 | 0 | 2 | 8 | 20 | 27 | 30 | 33 | 37 | 57 | 100 | -- |
| 07... | 1642 | 0 | 2 | 12 | 36 | 64 | 79 | 86 | 91 | 97 | 100 | -- |
| 07... | 1648 | 0 | 2 | 9 | 21 | 38 | 55 | 66 | 71 | 80 | 100 | -- |
| 07... | 1652 | 0 | 1 | 3 | 9 | 23 | 54 | 81 | 96 | 100 | -- | -- |
| 07... | 1658 | 0 | 1 | 1 | 2 | 4 | 26 | 75 | 91 | 94 | 100 | -- |
| 08... | 1325 | 1 | 3 | 9 | 26 | 64 | 83 | 90 | 96 | 100 | -- | -- |
| 08... | 1331 | 0 | 1 | 9 | 29 | 46 | 58 | 66 | 73 | 81 | 81 | 100 |
| 08... | 1336 | 0 | 1 | 13 | 39 | 62 | 78 | 87 | 95 | 100 | -- | -- |
| 08... | 1341 | 0 | 1 | 3 | 7 | 13 | 23 | 35 | 49 | 66 | 100 | -- |
| 08... | 1345 | 0 | 0 | 1 | 1 | 3 | 14 | 36 | 58 | 83 | 100 | -- |
| 20... | 1708 | 2 | 14 | 64 | 99 | 100 | -- | -- | -- | -- | -- | -- |
| 20... | 1714 | 0 | 6 | 42 | 72 | 80 | 85 | 92 | 100 | -- | -- | -- |
| 20... | 1717 | 0 | 4 | 23 | 55 | 82 | 91 | 95 | 98 | 100 | -- | -- |
| 20... | 1723 | 0 | 0 | 2 | 6 | 15 | 26 | 37 | 55 | 84 | 100 | -- |
| 20... | 1726 | 0 | 1 | 3 | 6 | 11 | 23 | 45 | 70 | 94 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUL | | | | | | | | | | | | |
| 09... | 1400 | 1 | 6 | 32 | 50 | 55 | 61 | 70 | 81 | 100 | -- | -- |
| 09... | 1402 | 1 | 4 | 20 | 52 | 74 | 86 | 93 | 99 | 100 | -- | -- |
| 09... | 1406 | 2 | 7 | 24 | 58 | 82 | 92 | 97 | 99 | 100 | -- | -- |
| 09... | 1409 | 0 | 1 | 3 | 10 | 26 | 43 | 59 | 78 | 96 | 100 | -- |
| 09... | 1414 | 0 | 2 | 11 | 22 | 38 | 60 | 79 | 94 | 100 | -- | -- |
| 24... | 1353 | 0 | 2 | 11 | 19 | 23 | 28 | 34 | 43 | 63 | 100 | -- |
| 24... | 1356 | 0 | 4 | 24 | 60 | 78 | 88 | 94 | 98 | 100 | -- | -- |
| 24... | 1358 | 1 | 6 | 26 | 60 | 87 | 95 | 97 | 99 | 100 | -- | -- |
| 24... | 1400 | 1 | 5 | 16 | 38 | 65 | 79 | 89 | 97 | 100 | -- | -- |
| 24... | 1404 | 0 | 1 | 5 | 7 | 17 | 61 | 93 | 100 | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 08... | 1444 | 0 | 2 | 18 | 65 | 84 | 88 | 91 | 93 | 94 | 100 | -- |
| 08... | 1448 | 0 | 1 | 8 | 31 | 51 | 60 | 68 | 77 | 88 | 100 | -- |
| 08... | 1452 | 0 | 0 | 3 | 7 | 22 | 39 | 50 | 63 | 84 | 100 | -- |
| 08... | 1455 | 0 | 1 | 4 | 8 | 13 | 33 | 59 | 80 | 90 | 100 | -- |
| 23... | 1425 | 0 | 2 | 20 | 61 | 85 | 97 | 100 | -- | -- | -- | -- |
| 23... | 1427 | 0 | 0 | 2 | 17 | 62 | 94 | 99 | 100 | -- | -- | -- |
| 23... | 1429 | 0 | 0 | 2 | 6 | 14 | 22 | 29 | 46 | 70 | 100 | -- |
| 23... | 1431 | 0 | 1 | 11 | 53 | 78 | 84 | 87 | 92 | 100 | -- | -- |
| 23... | 1433 | 0 | 0 | 2 | 7 | 13 | 20 | 25 | 35 | 59 | 74 | 100 |
| SEP | | | | | | | | | | | | |
| 11... | 1330 | 0 | 1 | 10 | 17 | 22 | 31 | 48 | 66 | 100 | -- | -- |
| 11... | 1334 | 0 | 1 | 12 | 42 | 66 | 79 | 86 | 93 | 100 | -- | -- |
| 11... | 1336 | 0 | 3 | 19 | 69 | 93 | 97 | 99 | 100 | -- | -- | -- |
| 11... | 1339 | 0 | 2 | 13 | 50 | 86 | 95 | 98 | 99 | 100 | -- | -- |
| 11... | 1344 | 0 | 3 | 11 | 17 | 21 | 24 | 25 | 27 | 33 | 65 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 08... | 1427 | 0 | 0 | 1 | 1 | 7 | 37 | 74 | 97 | 100 | -- | -- |
| 08... | 1431 | 0 | 0 | 5 | 23 | 41 | 50 | 57 | 66 | 82 | 91 | 100 |
| 08... | 1434 | 0 | 1 | 14 | 63 | 94 | 98 | 100 | -- | -- | -- | -- |
| 08... | 1437 | 0 | 1 | 6 | 21 | 36 | 45 | 54 | 68 | 98 | 100 | -- |
| 08... | 1439 | 0 | 0 | 3 | 12 | 31 | 48 | 64 | 78 | 91 | 100 | -- |
| 23... | 1615 | 2 | 12 | 60 | 94 | 98 | 99 | 100 | -- | -- | -- | -- |
| 23... | 1620 | 1 | 2 | 10 | 20 | 24 | 27 | 29 | 29 | 29 | 100 | -- |
| 23... | 1632 | 0 | 0 | 2 | 8 | 15 | 26 | 41 | 58 | 77 | 100 | -- |
| 23... | 1638 | 0 | 1 | 3 | 9 | 23 | 46 | 64 | 74 | 88 | 100 | -- |
| 23... | 1644 | 0 | 0 | 2 | 7 | 18 | 40 | 61 | 80 | 93 | 100 | -- |
| 25... | 1528 | 0 | 1 | 4 | 18 | 50 | 77 | 90 | 96 | 100 | -- | -- |
| 25... | 1532 | 0 | 2 | 11 | 27 | 46 | 59 | 69 | 82 | 100 | -- | -- |
| 25... | 1535 | 0 | 1 | 8 | 26 | 48 | 70 | 84 | 96 | 100 | -- | -- |
| 25... | 1544 | 0 | 0 | 1 | 3 | 10 | 28 | 46 | 60 | 71 | 86 | 100 |
| 25... | 1556 | 0 | 0 | 0 | 0 | 1 | 7 | 27 | 66 | 92 | 100 | -- |
| 30... | 1625 | 0 | 1 | 5 | 24 | 56 | 74 | 82 | 90 | 98 | 100 | -- |
| 30... | 1629 | 1 | 3 | 23 | 48 | 57 | 62 | 66 | 70 | 78 | 100 | -- |
| 30... | 1634 | 0 | 1 | 4 | 21 | 41 | 53 | 61 | 69 | 82 | 100 | -- |
| 30... | 1635 | 0 | 1 | 3 | 16 | 43 | 63 | 74 | 83 | 100 | -- | -- |
| 30... | 1641 | 0 | 0 | 1 | 3 | 8 | 20 | 39 | 68 | 91 | 100 | -- |
| NOV | | | | | | | | | | | | |
| 08... | 1435 | 0 | 0 | 1 | 3 | 12 | 26 | 43 | 68 | 93 | 100 | -- |
| 08... | 1442 | 0 | 1 | 6 | 21 | 56 | 79 | 86 | 92 | 100 | -- | -- |
| 08... | 1449 | 0 | 0 | 5 | 36 | 76 | 86 | 88 | 88 | 88 | 100 | -- |
| 08... | 1454 | 0 | 0 | 1 | 4 | 10 | 23 | 40 | 57 | 82 | 100 | -- |
| 08... | 1458 | 0 | 0 | 0 | 1 | 1 | 4 | 24 | 76 | 100 | -- | -- |
| 14... | 1351 | 0 | 1 | 7 | 26 | 61 | 83 | 91 | 97 | 99 | 100 | -- |
| 14... | 1355 | 0 | 0 | 3 | 15 | 48 | 75 | 83 | 89 | 97 | 100 | -- |
| 14... | 1358 | 0 | 0 | 1 | 4 | 11 | 23 | 45 | 77 | 97 | 100 | -- |
| 20... | 1330 | 0 | 0 | 1 | 4 | 9 | 13 | 16 | 25 | 64 | 100 | -- |
| 20... | 1335 | 0 | 0 | 2 | 13 | 34 | 51 | 66 | 83 | 100 | -- | -- |
| 20... | 1337 | 0 | 0 | 1 | 3 | 14 | 48 | 81 | 98 | 100 | -- | -- |
| 20... | 1340 | 0 | 0 | 1 | 4 | 13 | 36 | 77 | 96 | 100 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | |
| 04... | 1618 | 0 | 0 | 3 | 15 | 28 | 40 | 57 | 80 | 97 | 100 | -- |
| 04... | 1623 | 0 | 0 | 2 | 8 | 13 | 17 | 19 | 21 | 25 | 100 | -- |
| 04... | 1626 | 0 | 0 | 3 | 21 | 55 | 81 | 93 | 100 | -- | -- | -- |
| 04... | 1630 | 0 | 0 | 2 | 9 | 22 | 46 | 68 | 83 | 96 | 100 | -- |
| 18... | 1605 | 0 | 0 | 6 | 18 | 32 | 45 | 58 | 74 | 100 | -- | -- |
| 18... | 1608 | 0 | 0 | 1 | 11 | 25 | 36 | 44 | 60 | 83 | 100 | -- |
| 18... | 1610 | 0 | 0 | 2 | 9 | 20 | 25 | 28 | 32 | 45 | 100 | -- |
| 18... | 1617 | 0 | 0 | 1 | 6 | 22 | 40 | 51 | 60 | 72 | 75 | 100 |
| 18... | 1620 | 0 | 0 | 2 | 5 | 14 | 38 | 67 | 93 | 98 | 100 | -- |
| JAN | | | | | | | | | | | | |
| 16... | 1715 | 0 | 1 | 11 | 42 | 76 | 93 | 99 | 100 | -- | -- | -- |
| 16... | 1718 | 0 | 0 | 2 | 13 | 39 | 66 | 83 | 93 | 100 | -- | -- |
| 16... | 1724 | 0 | 0 | 1 | 10 | 27 | 37 | 46 | 55 | 63 | 100 | -- |
| 16... | 1727 | 0 | 0 | 1 | 3 | 11 | 36 | 63 | 86 | 98 | 100 | -- |
| 16... | 1730 | 0 | 0 | 0 | 1 | 2 | 10 | 48 | 85 | 92 | 100 | -- |
| 19... | 1354 | 0 | 1 | 2 | 4 | 7 | 14 | 24 | 43 | 67 | 100 | -- |
| 19... | 1358 | 1 | 3 | 12 | 38 | 62 | 78 | 87 | 92 | 100 | -- | -- |
| 19... | 1404 | 0 | 0 | 2 | 7 | 16 | 25 | 30 | 34 | 41 | 46 | 100 |
| 19... | 1416 | 0 | 1 | 3 | 8 | 13 | 23 | 32 | 40 | 59 | 71 | 100 |
| 19... | 1423 | 0 | 2 | 7 | 10 | 12 | 17 | 29 | 62 | 100 | -- | -- |
| 21... | 1615 | 0 | 1 | 6 | 20 | 45 | 65 | 76 | 83 | 93 | 100 | -- |
| 21... | 1618 | 0 | 1 | 4 | 27 | 64 | 81 | 89 | 95 | 100 | -- | -- |
| 21... | 1626 | 0 | 0 | 3 | 13 | 30 | 43 | 47 | 52 | 62 | 100 | -- |
| 21... | 1628 | 0 | 0 | 2 | 11 | 29 | 48 | 61 | 72 | 83 | 100 | -- |
| 21... | 1631 | 0 | 0 | 1 | 2 | 7 | 27 | 50 | 72 | 82 | 100 | -- |
| FEB | | | | | | | | | | | | |
| 13... | 1346 | 0 | 0 | 0 | 1 | 12 | 31 | 55 | 73 | 87 | 87 | 100 |
| 13... | 1352 | 0 | 1 | 8 | 34 | 74 | 89 | 94 | 97 | 100 | -- | -- |
| 13... | 1353 | 0 | 0 | 3 | 26 | 80 | 95 | 99 | 100 | -- | -- | -- |
| 13... | 1357 | 0 | 0 | 1 | 5 | 12 | 21 | 36 | 55 | 82 | 100 | -- |
| 13... | 1400 | 0 | 3 | 14 | 38 | 62 | 83 | 93 | 100 | -- | -- | -- |
| 18... | 1350 | 0 | 0 | 1 | 3 | 6 | 24 | 53 | 81 | 96 | 100 | -- |
| 18... | 1352 | 0 | 0 | 2 | 8 | 28 | 53 | 70 | 82 | 88 | 100 | -- |
| 18... | 1355 | 0 | 0 | 1 | 2 | 6 | 12 | 19 | 28 | 60 | 100 | -- |
| 18... | 1359 | 0 | 0 | 2 | 13 | 47 | 83 | 93 | 96 | 100 | -- | -- |
| 18... | 1402 | 1 | 3 | 12 | 32 | 54 | 74 | 89 | 96 | 100 | -- | -- |
| 24... | 1623 | 0 | 2 | 9 | 29 | 70 | 92 | 97 | 100 | -- | -- | -- |
| 24... | 1627 | 0 | 1 | 5 | 15 | 30 | 41 | 51 | 63 | 85 | 100 | -- |
| 24... | 1631 | 0 | 1 | 4 | 13 | 30 | 47 | 58 | 74 | 91 | 100 | -- |
| 24... | 1635 | 0 | 1 | 3 | 9 | 28 | 51 | 65 | 76 | 92 | 100 | -- |
| 24... | 1638 | 0 | 0 | 1 | 1 | 1 | 5 | 19 | 57 | 87 | 100 | -- |
| 26... | 1404 | 0 | 1 | 2 | 4 | 9 | 24 | 45 | 68 | 89 | 100 | -- |
| 26... | 1413 | 0 | 1 | 6 | 13 | 18 | 22 | 28 | 33 | 37 | 100 | -- |
| 26... | 1417 | 0 | 1 | 1 | 2 | 4 | 5 | 6 | 6 | 15 | 100 | -- |
| 26... | 1422 | 0 | 1 | 6 | 18 | 38 | 59 | 74 | 88 | 97 | 100 | -- |
| APR | | | | | | | | | | | | |
| 02... | 1401 | 0 | 0 | 4 | 27 | 66 | 85 | 90 | 94 | 99 | 100 | -- |
| 02... | 1406 | 0 | 1 | 5 | 18 | 34 | 43 | 45 | 46 | 53 | 100 | -- |
| 02... | 1408 | 0 | 0 | 2 | 14 | 40 | 70 | 81 | 86 | 92 | 100 | -- |
| 02... | 1411 | 0 | 0 | 1 | 1 | 4 | 13 | 26 | 52 | 95 | 100 | -- |
| 18... | 1320 | 0 | 0 | 2 | 5 | 8 | 22 | 45 | 71 | 90 | 100 | -- |
| 18... | 1325 | 0 | 0 | 1 | 6 | 16 | 45 | 66 | 76 | 100 | -- | -- |
| 21... | 1418 | 0 | 1 | 8 | 38 | 83 | 95 | 98 | 99 | 100 | -- | -- |
| 21... | 1425 | 0 | 0 | 3 | 15 | 34 | 47 | 56 | 67 | 80 | 88 | 100 |
| 21... | 1429 | 0 | 0 | 2 | 7 | 27 | 50 | 66 | 78 | 85 | 100 | -- |
| 21... | 1433 | 0 | 0 | 1 | 1 | 4 | 17 | 37 | 67 | 98 | 100 | -- |
| 30... | 1434 | 0 | 1 | 5 | 23 | 55 | 69 | 73 | 79 | 88 | 100 | -- |
| 30... | 1440 | 0 | 0 | 2 | 10 | 31 | 50 | 61 | 71 | 76 | 100 | -- |
| 30... | 1442 | 0 | 0 | 2 | 10 | 33 | 65 | 81 | 93 | 100 | -- | -- |
| 30... | 1445 | 0 | 0 | 0 | 0 | 1 | 5 | 31 | 73 | 98 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 06... | 1358 | 0 | 1 | 7 | 36 | 81 | 96 | 98 | 100 | -- | -- | -- |
| 06... | 1401 | 0 | 1 | 7 | 24 | 52 | 80 | 90 | 95 | 100 | -- | -- |
| 06... | 1409 | 0 | 1 | 3 | 6 | 11 | 18 | 27 | 45 | 70 | 100 | -- |
| 06... | 1413 | 0 | 0 | 0 | 0 | 1 | 7 | 27 | 59 | 91 | 100 | -- |
| 21... | 1455 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 100 |
| 21... | 1505 | 0 | 0 | 3 | 16 | 40 | 55 | 62 | 67 | 81 | 100 | -- |
| 21... | 1511 | 0 | 0 | 1 | 5 | 13 | 23 | 28 | 33 | 39 | 61 | 100 |
| 21... | 1515 | 0 | 0 | 0 | 1 | 2 | 17 | 44 | 78 | 90 | 100 | -- |
| 21... | 1519 | 0 | 0 | 0 | 0 | 0 | 10 | 41 | 69 | 94 | 100 | -- |
| JUN | | | | | | | | | | | | |
| 02... | 1408 | 0 | 0 | 3 | 24 | 57 | 69 | 74 | 78 | 89 | 100 | -- |
| 02... | 1410 | 0 | 0 | 3 | 15 | 42 | 61 | 70 | 80 | 89 | 100 | -- |
| 02... | 1413 | 0 | 0 | 0 | 1 | 9 | 28 | 47 | 70 | 86 | 100 | -- |
| 02... | 1415 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 100 |
| 16... | 1414 | 0 | 0 | 5 | 29 | 54 | 64 | 69 | 76 | 89 | 100 | -- |
| 16... | 1416 | 0 | 1 | 6 | 36 | 73 | 87 | 93 | 97 | 100 | -- | -- |
| 16... | 1419 | 0 | 0 | 0 | 3 | 21 | 51 | 73 | 86 | 100 | -- | -- |
| 16... | 1422 | 0 | 0 | 0 | 1 | 6 | 24 | 45 | 71 | 91 | 100 | -- |
| JUL | | | | | | | | | | | | |
| 22... | 1400 | 0 | 0 | 2 | 15 | 41 | 66 | 77 | 84 | 96 | 100 | -- |
| 22... | 1403 | 0 | 0 | 1 | 13 | 33 | 51 | 64 | 77 | 89 | 100 | -- |
| 22... | 1405 | 0 | 0 | 1 | 4 | 19 | 39 | 54 | 69 | 85 | 100 | -- |
| 22... | 1408 | 0 | 0 | 1 | 2 | 8 | 32 | 65 | 86 | 95 | 100 | -- |
| AUG | | | | | | | | | | | | |
| 07... | 1525 | 0 | 0 | 1 | 9 | 23 | 34 | 42 | 54 | 74 | 100 | -- |
| 07... | 1530 | 0 | 0 | 1 | 7 | 38 | 75 | 90 | 97 | 98 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 31... | 1420 | 0 | 1 | 4 | 19 | 41 | 49 | 52 | 55 | 61 | 100 | -- |
| 31... | 1423 | 0 | 0 | 1 | 4 | 8 | 11 | 11 | 12 | 16 | 41 | 100 |
| 31... | 1425 | 0 | 0 | 1 | 3 | 10 | 26 | 37 | 52 | 88 | 100 | -- |
| 31... | 1427 | 0 | 0 | 1 | 2 | 4 | 25 | 51 | 76 | 96 | 100 | -- |
| NOV | | | | | | | | | | | | |
| 11... | 1439 | 0 | 0 | 2 | 28 | 86 | 94 | 95 | 96 | 98 | 100 | -- |
| 11... | 1443 | 0 | 0 | 1 | 11 | 36 | 58 | 67 | 77 | 100 | -- | -- |
| 11... | 1445 | 0 | 0 | 1 | 3 | 14 | 35 | 55 | 78 | 94 | 100 | -- |
| 11... | 1447 | 0 | 0 | 1 | 1 | 3 | 23 | 53 | 80 | 95 | 100 | -- |
| 21... | 1603 | 0 | 2 | 8 | 23 | 51 | 72 | 85 | 95 | 100 | -- | -- |
| 21... | 1605 | 0 | 1 | 5 | 22 | 48 | 65 | 72 | 78 | 84 | 100 | -- |
| 21... | 1609 | 0 | 1 | 17 | 86 | 100 | -- | -- | -- | -- | -- | -- |
| 21... | 1615 | 0 | 1 | 3 | 12 | 31 | 54 | 68 | 79 | 91 | 100 | -- |
| 22... | 1325 | 0 | 1 | 4 | 13 | 35 | 73 | 91 | 98 | 100 | -- | -- |
| 22... | 1329 | 0 | 1 | 4 | 15 | 35 | 50 | 58 | 66 | 85 | 100 | -- |
| 22... | 1333 | 0 | 0 | 3 | 8 | 13 | 18 | 22 | 27 | 35 | 35 | 100 |
| 22... | 1339 | 0 | 0 | 1 | 3 | 5 | 12 | 19 | 26 | 39 | 54 | 100 |
| 22... | 1343 | 0 | 0 | 1 | 3 | 6 | 19 | 37 | 67 | 92 | 100 | -- |
| 24... | 1118 | 0 | 2 | 8 | 24 | 64 | 84 | 89 | 93 | 97 | 100 | -- |
| 24... | 1126 | 0 | 1 | 2 | 4 | 9 | 14 | 21 | 36 | 69 | 100 | -- |
| 24... | 1131 | 0 | 1 | 3 | 11 | 25 | 44 | 60 | 79 | 92 | 100 | -- |
| 24... | 1138 | 0 | 1 | 3 | 6 | 12 | 26 | 47 | 66 | 82 | 100 | -- |
| 24... | 1144 | 0 | 0 | 1 | 2 | 3 | 11 | 31 | 62 | 94 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | |
| 04... | 1359 | 0 | 1 | 7 | 52 | 92 | 97 | 98 | 99 | 99 | 100 | -- |
| 04... | 1400 | 0 | 1 | 4 | 18 | 55 | 79 | 86 | 92 | 98 | 100 | -- |
| 04... | 1403 | 0 | 0 | 0 | 1 | 5 | 27 | 43 | 64 | 88 | 100 | -- |
| 04... | 1405 | 0 | 0 | 0 | 1 | 1 | 9 | 26 | 60 | 98 | 100 | -- |
| 15... | 1348 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 15... | 1350 | 0 | 1 | 9 | 53 | 89 | 94 | 96 | 96 | 97 | 100 | -- |
| 15... | 1352 | 0 | 1 | 5 | 20 | 51 | 76 | 87 | 95 | 100 | -- | -- |
| 15... | 1359 | 0 | 0 | 1 | 1 | 8 | 36 | 58 | 77 | 88 | 100 | -- |
| 15... | 1401 | 0 | 0 | 0 | 1 | 6 | 45 | 81 | 92 | 94 | 100 | -- |
| 29... | 1433 | 0 | 2 | 11 | 46 | 81 | 90 | 93 | 97 | 98 | 100 | -- |
| 29... | 1442 | 0 | 1 | 3 | 13 | 31 | 47 | 57 | 71 | 85 | 100 | -- |
| 29... | 1446 | 0 | 0 | 1 | 2 | 7 | 19 | 39 | 67 | 86 | 100 | -- |
| 29... | 1449 | 0 | 0 | 1 | 1 | 1 | 4 | 14 | 38 | 72 | 87 | 100 |
| JAN | | | | | | | | | | | | |
| 13... | 1450 | 0 | 0 | 1 | 7 | 13 | 24 | 34 | 49 | 68 | 72 | 100 |
| 13... | 1456 | 0 | 0 | 3 | 17 | 37 | 50 | 56 | 65 | 89 | 100 | -- |
| 13... | 1459 | 0 | 0 | 1 | 6 | 23 | 38 | 45 | 53 | 63 | 100 | -- |
| 13... | 1503 | 0 | 0 | 1 | 7 | 31 | 58 | 73 | 85 | 91 | 100 | -- |
| 27... | 1335 | 0 | 1 | 5 | 19 | 49 | 77 | 89 | 96 | 100 | -- | -- |
| 27... | 1338 | 0 | 0 | 2 | 12 | 32 | 47 | 55 | 63 | 80 | 100 | -- |
| 27... | 1343 | 0 | 0 | 2 | 11 | 31 | 51 | 64 | 78 | 92 | 100 | -- |
| 27... | 1348 | 0 | 0 | 1 | 2 | 7 | 29 | 56 | 87 | 100 | -- | -- |
| 28... | 1430 | 0 | 0 | 1 | 6 | 14 | 20 | 24 | 31 | 49 | 100 | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1205 | 1 | 1 | 3 | 4 | 6 | 14 | 31 | 50 | 77 | 100 | -- |
| 01... | 1210 | 0 | 2 | 4 | 7 | 13 | 21 | 31 | 49 | 84 | 100 | -- |
| 01... | 1215 | 3 | 4 | 10 | 19 | 30 | 40 | 47 | 56 | 80 | 100 | -- |
| 01... | 1220 | 1 | 3 | 7 | 17 | 27 | 40 | 49 | 62 | 93 | 100 | -- |
| 01... | 1225 | 1 | 4 | 11 | 21 | 28 | 34 | 38 | 41 | 50 | 100 | -- |
| MAR | | | | | | | | | | | | |
| 04... | 1200 | 0 | 2 | 6 | 22 | 56 | 75 | 82 | 87 | 92 | 100 | -- |
| 04... | 1205 | 1 | 1 | 3 | 10 | 24 | 36 | 46 | 62 | 82 | 84 | 100 |
| 04... | 1213 | 1 | 2 | 10 | 29 | 51 | 67 | 78 | 90 | 100 | -- | -- |
| 04... | 1218 | 1 | 1 | 4 | 12 | 25 | 40 | 51 | 63 | 77 | 100 | -- |
| 04... | 1221 | 0 | 1 | 2 | 5 | 9 | 21 | 34 | 57 | 77 | 100 | -- |
| 09... | 1459 | 0 | 0 | 2 | 8 | 21 | 34 | 43 | 53 | 64 | 71 | 100 |
| 09... | 1503 | 0 | 1 | 5 | 23 | 50 | 73 | 85 | 94 | 100 | -- | -- |
| 09... | 1507 | 0 | 0 | 2 | 8 | 18 | 31 | 44 | 56 | 66 | 76 | 100 |
| 09... | 1511 | 0 | 0 | 0 | 2 | 7 | 21 | 39 | 60 | 80 | 86 | 100 |
| 13... | 1420 | 0 | 0 | 1 | 1 | 2 | 27 | 65 | 82 | 91 | 100 | -- |
| 13... | 1524 | 0 | 0 | 1 | 1 | 1 | 11 | 37 | 74 | 92 | 100 | -- |
| 13... | 1530 | 0 | 0 | 1 | 1 | 1 | 17 | 52 | 76 | 87 | 100 | -- |
| 13... | 1536 | 0 | 0 | 2 | 2 | 4 | 21 | 47 | 73 | 90 | 100 | -- |
| 13... | 1540 | 0 | 1 | 2 | 3 | 4 | 12 | 26 | 42 | 68 | 100 | -- |
| 26... | 1639 | 0 | 1 | 8 | 44 | 72 | 79 | 82 | 84 | 86 | 100 | -- |
| 26... | 1641 | 0 | 0 | 4 | 23 | 56 | 75 | 85 | 92 | 98 | 100 | -- |
| 26... | 1643 | 0 | 0 | 2 | 5 | 27 | 62 | 79 | 87 | 95 | 100 | -- |
| 26... | 1646 | 0 | 1 | 2 | 2 | 4 | 18 | 46 | 76 | 92 | 100 | -- |
| APR | | | | | | | | | | | | |
| 02... | 1444 | 0 | 2 | 17 | 61 | 84 | 93 | 97 | 99 | 100 | -- | -- |
| 02... | 1448 | 0 | 0 | 2 | 13 | 28 | 41 | 52 | 64 | 88 | 100 | -- |
| 02... | 1455 | 0 | 0 | 1 | 8 | 44 | 69 | 79 | 89 | 97 | 100 | -- |
| 02... | 1459 | 0 | 1 | 3 | 4 | 5 | 20 | 41 | 72 | 98 | 100 | -- |
| 16... | 1337 | 0 | 0 | 5 | 25 | 45 | 58 | 68 | 79 | 95 | 100 | -- |
| 16... | 1345 | 0 | 0 | 3 | 19 | 46 | 63 | 72 | 79 | 90 | 100 | -- |
| 16... | 1347 | 0 | 0 | 2 | 12 | 29 | 46 | 64 | 82 | 92 | 100 | -- |
| 16... | 1355 | 0 | 0 | 2 | 4 | 5 | 10 | 28 | 73 | 98 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 06... | 1334 | 0 | 1 | 6 | 41 | 66 | 68 | 68 | 68 | 68 | 81 | 100 |
| 06... | 1338 | 0 | 0 | 0 | 3 | 6 | 8 | 10 | 11 | 14 | 100 | -- |
| 06... | 1346 | 0 | 0 | 1 | 5 | 20 | 53 | 69 | 76 | 83 | 100 | -- |
| 06... | 1350 | 0 | 0 | 0 | 1 | 2 | 23 | 55 | 83 | 97 | 100 | -- |
| 27... | 1329 | 0 | 0 | 1 | 3 | 9 | 33 | 68 | 91 | 100 | -- | -- |
| 27... | 1331 | 0 | 0 | 1 | 6 | 16 | 39 | 64 | 87 | 100 | -- | -- |
| 27... | 1337 | 0 | 2 | 8 | 30 | 61 | 77 | 85 | 92 | 100 | -- | -- |
| 27... | 1340 | 0 | 1 | 8 | 38 | 74 | 90 | 95 | 98 | 100 | -- | -- |
| JUN | | | | | | | | | | | | |
| 10... | 1442 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 18 | 100 | -- |
| 10... | 1445 | 1 | 2 | 10 | 53 | 94 | 99 | 100 | -- | -- | -- | -- |
| 10... | 1449 | 0 | 0 | 3 | 19 | 45 | 71 | 82 | 91 | 99 | 100 | -- |
| 10... | 1453 | 0 | 0 | 1 | 2 | 8 | 36 | 67 | 90 | 100 | -- | -- |
| 10... | 1458 | 0 | 0 | 0 | 0 | 1 | 18 | 58 | 92 | 100 | -- | -- |
| 29... | 1345 | 0 | 0 | 0 | 0 | 1 | 21 | 70 | 96 | 100 | 100 | -- |
| 29... | 1347 | 0 | 2 | 9 | 32 | 61 | 78 | 85 | 90 | 94 | 100 | -- |
| 29... | 1351 | 0 | 0 | 6 | 36 | 68 | 84 | 90 | 96 | 98 | 100 | -- |
| 29... | 1354 | 0 | 0 | 2 | 3 | 6 | 21 | 36 | 48 | 52 | 52 | 100 |
| JUL | | | | | | | | | | | | |
| 06... | 1544 | 0 | 0 | 1 | 2 | 7 | 16 | 29 | 49 | 86 | 100 | -- |
| 06... | 1548 | 1 | 5 | 24 | 65 | 92 | 98 | 99 | 100 | -- | -- | -- |
| 06... | 1552 | 0 | 1 | 5 | 24 | 46 | 62 | 70 | 82 | 92 | 100 | -- |
| 06... | 1555 | 0 | 0 | 0 | 0 | 3 | 32 | 67 | 95 | 100 | -- | -- |
| 06... | 1557 | 0 | 0 | 2 | 2 | 4 | 26 | 63 | 89 | 96 | 100 | -- |
| 24... | 1228 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| 24... | 1233 | 8 | 8 | 8 | 8 | 8 | 11 | 13 | 17 | 30 | 100 | -- |
| 24... | 1236 | 0 | 0 | 1 | 8 | 17 | 24 | 30 | 40 | 68 | 100 | -- |
| 24... | 1240 | 0 | 0 | 0 | 4 | 18 | 44 | 71 | 88 | 97 | 100 | -- |
| 24... | 1243 | 5 | 5 | 5 | 5 | 5 | 8 | 11 | 21 | 28 | 100 | -- |

## 14241490 SOUTH FORK TOUTLE RIVER AT CAMP 12 NEAR TOUTLE, WA

**LOCATION.**--Lat 46°19′05″, long 122°40′01″, in NE ¼ SW ¼ sec. 35, T.10 N., R.1 E., Cowlitz County, Hydrologic Unit 17080005, on right bank 0.9 mi downstream from Johnson Creek, 1.2 mi southeast of Toutle, and at mile 3.4.

**DRAINAGE AREA.**--117 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--October 1980 through September 1987.

**GAGE.**--Water-stage recorder. Altitude of gage is 510 ft from topographic map. Prior to Dec. 22, 1982, gage located 1.6 mi upstream at different datum.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Dec. 26, 1980 | 1345 | 34,600 |
| 1982 | Oct. 6, 1981 | 1735 | 25,800 |
| 1983 | Dec. 3, 1982 | 1635 | 29,800 |
| 1984 | Nov. 3, 1983 | 1110 | 21,600 |
| 1985 | Nov. 2, 1984 | 1155 | 1,940 |
| 1986 | Feb. 24, 1986 | 0600 | 2,400 |
| 1987 | Feb. 1, 1987 | 1230 | 6,980 |

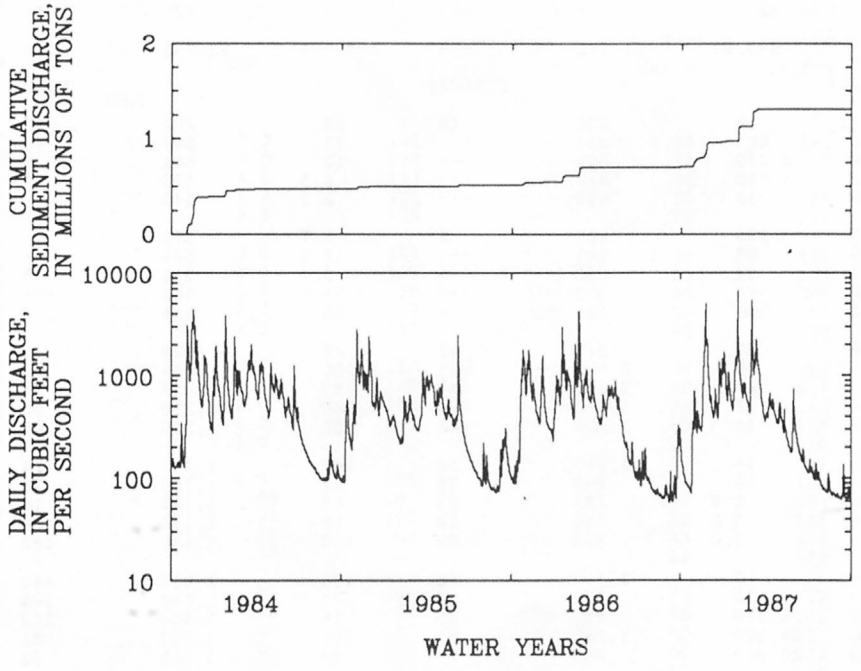


Figure 11.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, South Fork Toutle River at Camp 12 near Toutle, Wash. (14241490).

14241490 SOUTH FORK TOUTLE RIVER AT CAMP 12 NEAR TOUTLE, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 131 | 11 | 3.9 | 337 | 297 | 336 | 674 | 18 | 33 |
| 2 | 134 | 12 | 4.3 | 641 | 834 | 1,660 | 621 | 17 | 29 |
| 3 | 134 | 11 | 4.0 | 3,050 | 6,810 | 66,200 | 557 | 14 | 21 |
| 4 | 154 | 5 | 2.1 | 2,520 | 2,900 | 21,900 | 504 | 14 | 19 |
| 5 | 134 | 4 | 1.4 | 1,460 | --- | 5,800 | 533 | 17 | 24 |
| 6 | 131 | 6 | 2.1 | 1,450 | --- | 5,200 | 497 | 14 | 19 |
| 7 | 128 | 4 | 1.4 | 1,300 | 846 | 2,970 | 511 | 35 | 56 |
| 8 | 128 | 2 | .69 | 1,040 | 503 | 1,410 | 759 | 39 | 80 |
| 9 | 125 | 4 | 1.4 | 893 | 302 | 728 | 789 | 35 | 75 |
| 10 | 128 | 4 | 1.4 | 892 | 476 | 1,150 | 1,570 | 366 | 1,550 |
| 11 | 128 | 2 | .69 | 1,220 | 987 | 3,250 | 1,460 | 112 | 442 |
| 12 | 128 | 4 | 1.4 | 1,350 | 1,310 | 5,450 | 1,320 | 99 | 353 |
| 13 | 128 | 5 | 1.7 | 2,380 | 2,950 | 22,000 | 1,390 | 62 | 233 |
| 14 | 140 | 14 | 5.3 | 3,280 | 2,470 | 21,900 | 1,450 | 76 | 298 |
| 15 | 133 | 4 | 1.4 | 3,190 | 2,790 | 24,000 | 1,180 | 36 | 115 |
| 16 | 128 | 1 | .35 | 3,510 | 4,080 | 38,700 | 965 | 35 | 91 |
| 17 | 144 | --- | 1.5 | 4,380 | 5,020 | 59,400 | 799 | 37 | 80 |
| 18 | 138 | --- | 1.0 | 3,300 | 5,330 | 47,500 | 701 | --- | 40 |
| 19 | 132 | --- | 1.0 | 2,570 | 3,740 | 27,500 | 611 | --- | 13 |
| 20 | 136 | --- | 1.0 | 3,050 | 1,940 | 16,800 | 518 | 6 | 8.4 |
| 21 | 129 | --- | 1.5 | 1,970 | 662 | 3,520 | 434 | --- | 7.0 |
| 22 | 341 | --- | 440 | 1,410 | 312 | 1,190 | 380 | --- | 6.0 |
| 23 | 210 | --- | 40 | 1,190 | 357 | 1,150 | 323 | --- | 5.0 |
| 24 | 169 | --- | 6.0 | 2,190 | 990 | 5,850 | 300 | --- | 5.0 |
| 25 | 147 | --- | 3.0 | 2,020 | 398 | 2,170 | 330 | 56 | 50 |
| 26 | 147 | 4 | 1.6 | 1,480 | 113 | 452 | 340 | 31 | 28 |
| 27 | 137 | --- | 1.5 | 1,270 | 63 | 216 | 310 | 22 | 18 |
| 28 | 134 | --- | 1.0 | 1,110 | 51 | 153 | 280 | --- | 15 |
| 29 | 128 | --- | 1.0 | 930 | 32 | 80 | 480 | --- | 80 |
| 30 | 197 | --- | 95 | 789 | 32 | 68 | 985 | 166 | 441 |
| 31 | 332 | 377 | 367 | --- | --- | --- | 820 | 54 | 120 |
| TOTAL | 4,733 | --- | 995.63 | 56,172 | --- | 388,703 | 22,391 | --- | 4,354.4 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 643 | 22 | 38 | 602 | 18 | 29 | 701 | 12 | 23 |
| 2 | 800 | 82 | 201 | 533 | --- | 15 | 696 | 10 | 19 |
| 3 | 1,760 | 469 | 2,370 | 490 | --- | 10 | 641 | 6 | 10 |
| 4 | 1,920 | 282 | 1,460 | 448 | --- | 8.5 | 576 | 7 | 11 |
| 5 | 1,530 | 128 | 529 | 418 | --- | 8.0 | 525 | --- | 9.5 |
| 6 | 1,190 | 58 | 186 | 407 | 7 | 7.7 | 511 | --- | 7.5 |
| 7 | 1,010 | 36 | 98 | 381 | --- | 7.0 | 504 | --- | 7.0 |
| 8 | 857 | 27 | 62 | 398 | --- | 8.5 | 511 | 5 | 6.9 |
| 9 | 733 | 22 | 44 | 506 | --- | 35 | 541 | --- | 9.0 |
| 10 | 771 | 48 | 100 | 520 | --- | 25 | 634 | 9 | 15 |
| 11 | 747 | 18 | 36 | 679 | 41 | 82 | 629 | 5 | 8.5 |
| 12 | 666 | --- | 30 | 2,380 | 625 | 5,600 | 864 | 21 | 52 |
| 13 | 597 | --- | 27 | 2,350 | 438 | 2,780 | 910 | 21 | 52 |
| 14 | 532 | --- | 22 | 1,560 | 246 | 1,040 | 1,310 | 65 | 244 |
| 15 | 479 | --- | 18 | 1,260 | 148 | 503 | 1,390 | 47 | 176 |
| 16 | 440 | --- | 14 | 1,040 | 58 | 163 | 1,210 | 21 | 69 |
| 17 | 396 | --- | 10 | 845 | 18 | 41 | 1,190 | 21 | 67 |
| 18 | 368 | --- | 8.0 | 732 | 23 | 45 | 1,140 | 16 | 49 |
| 19 | 348 | 6 | 5.6 | 653 | 10 | 18 | 1,140 | 20 | 62 |
| 20 | 332 | --- | 5.0 | 869 | 63 | 180 | 1,460 | 182 | 1,000 |
| 21 | 350 | --- | 10 | 1,110 | 46 | 138 | 2,010 | 440 | 2,390 |
| 22 | 557 | --- | 210 | 901 | 29 | 71 | 1,640 | 169 | 748 |
| 23 | 1,220 | 951 | 6,570 | 836 | 25 | 56 | 1,460 | 102 | 402 |
| 24 | 3,770 | 2,090 | 24,200 | 1,100 | 51 | 151 | 1,200 | 61 | 198 |
| 25 | 3,850 | 1,820 | 20,600 | 986 | 21 | 56 | 1,090 | 52 | 153 |
| 26 | 2,310 | 560 | 3,670 | 829 | 8 | 18 | 1,220 | 70 | 231 |
| 27 | 1,580 | 212 | 904 | 723 | 7 | 14 | 1,050 | 37 | 105 |
| 28 | 1,200 | 97 | 314 | 707 | 9 | 17 | 1,080 | 52 | 152 |
| 29 | 970 | 46 | 120 | 656 | 12 | 21 | 977 | 32 | 84 |
| 30 | 813 | 31 | 68 | --- | --- | --- | 852 | 25 | 58 |
| 31 | 683 | 25 | 46 | --- | --- | --- | 749 | 22 | 44 |
| TOTAL | 33,422 | --- | 61,975.6 | 24,919 | --- | 11,147.7 | 30,411 | --- | 6,462.4 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 692 | 21 | 39 | 821 | 36 | 109 | 454 | --- | 1.0 |
| 2 | 683 | 16 | 30 | 1,320 | 48 | 171 | 415 | --- | 1.0 |
| 3 | 639 | 16 | 28 | 1,130 | 18 | 55 | 393 | 1 | 1.1 |
| 4 | 593 | 20 | 32 | 881 | --- | 25 | 489 | 1 | 1.3 |
| 5 | 611 | 20 | 33 | 856 | --- | 25 | 477 | 1 | 1.3 |
| 6 | 606 | --- | 25 | 818 | --- | 20 | 465 | 1 | 1.3 |
| 7 | 1,180 | 72 | 271 | 721 | --- | 15 | 532 | 3 | 4.3 |
| 8 | 1,270 | 26 | 89 | 797 | --- | 15 | 564 | 4 | 6.1 |
| 9 | 1,040 | 17 | 48 | 781 | --- | 15 | 619 | 6 | 10 |
| 10 | 1,190 | 16 | 51 | 691 | --- | 10 | 553 | 4 | 6.0 |
| 11 | 1,200 | 13 | 42 | 910 | --- | 50 | 507 | 2 | 2.7 |
| 12 | 1,330 | 22 | 79 | 1,030 | --- | 50 | 465 | 1 | 1.3 |
| 13 | 1,170 | 10 | 32 | 938 | --- | 40 | 438 | 3 | 3.5 |
| 14 | 1,090 | 9 | 26 | 937 | --- | 40 | 420 | 5 | 5.7 |
| 15 | 1,230 | 16 | 53 | 906 | 15 | 37 | 386 | 4 | 4.2 |
| 16 | 1,030 | 9 | 25 | 797 | 6 | 13 | 357 | 3 | 2.9 |
| 17 | 835 | 5 | 11 | 688 | 1 | 1.9 | 333 | 3 | 2.7 |
| 18 | 755 | 5 | 10 | 611 | 1 | 1.6 | 312 | 5 | 4.2 |
| 19 | 695 | 8 | 15 | 661 | 4 | 7.1 | 300 | 4 | 3.2 |
| 20 | 629 | 7 | 12 | 704 | 2 | 3.8 | 507 | 63 | 106 |
| 21 | 587 | --- | 10 | 596 | 1 | 1.6 | 1,250 | 124 | 418 |
| 22 | 557 | --- | 10 | 713 | 8 | 19 | 837 | 15 | 34 |
| 23 | 530 | --- | 8.5 | 916 | 9 | 22 | 635 | 10 | 17 |
| 24 | 491 | --- | 8.0 | 767 | 2 | 4.1 | 522 | 7 | 9.9 |
| 25 | 470 | --- | 7.5 | 710 | 1 | 1.9 | 450 | 6 | 7.3 |
| 26 | 425 | 6 | 6.9 | 843 | 1 | 2.3 | 439 | 7 | 8.3 |
| 27 | 389 | 4 | 4.2 | 724 | 1 | 2.0 | 404 | --- | 6.5 |
| 28 | 396 | 6 | 6.4 | 651 | 1 | 1.8 | 363 | --- | 5.0 |
| 29 | 422 | 4 | 4.6 | 610 | 1 | 1.6 | 492 | 18 | 24 |
| 30 | 473 | 5 | 6.4 | 600 | 1 | 1.6 | 398 | --- | 8.5 |
| 31 | --- | --- | --- | 525 | --- | 1.5 | --- | --- | --- |
| TOTAL | 23,208 | --- | 1,023.5 | 24,653 | --- | 763.8 | 14,776 | --- | 708.3 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 344 | --- | 5.5 | 131 | --- | 0.70 | 125 | --- | 0.70 |
| 2 | 319 | --- | 4.5 | 130 | --- | .70 | 107 | --- | .60 |
| 3 | 299 | --- | 4.0 | 127 | --- | .70 | 101 | --- | .55 |
| 4 | 283 | --- | 4.0 | 125 | --- | .70 | 98 | --- | .55 |
| 5 | 270 | --- | 3.5 | 125 | --- | .70 | 121 | 10 | 3.3 |
| 6 | 255 | --- | 3.0 | 127 | --- | 1.0 | 184 | 28 | 14 |
| 7 | 243 | --- | 2.5 | 120 | --- | .95 | 185 | 13 | 6.5 |
| 8 | 232 | --- | 2.5 | 116 | --- | .95 | 205 | --- | 5.5 |
| 9 | 223 | --- | 2.5 | 113 | --- | .90 | 147 | --- | 3.0 |
| 10 | 216 | --- | 2.5 | 112 | --- | .90 | 130 | --- | 2.5 |
| 11 | 210 | --- | 2.0 | 110 | --- | .90 | 129 | --- | 2.5 |
| 12 | 206 | 4 | 2.2 | 109 | --- | .90 | 147 | --- | 3.0 |
| 13 | 198 | --- | 2.0 | 111 | --- | .90 | 125 | --- | 2.0 |
| 14 | 192 | --- | 1.5 | 105 | --- | .85 | 115 | --- | 1.5 |
| 15 | 188 | --- | 1.5 | 103 | 3 | .83 | 110 | --- | 1.5 |
| 16 | 184 | --- | 1.0 | 101 | --- | .80 | 108 | --- | 1.0 |
| 17 | 181 | 2 | .98 | 101 | --- | .80 | 104 | --- | .85 |
| 18 | 175 | --- | .95 | 100 | --- | .80 | 104 | 3 | .84 |
| 19 | 171 | --- | .90 | 98 | --- | .80 | 101 | --- | .80 |
| 20 | 167 | --- | .90 | 97 | --- | .80 | 101 | --- | .80 |
| 21 | 162 | --- | .85 | 96 | --- | .75 | 99 | --- | .80 |
| 22 | 158 | --- | .85 | 96 | --- | .70 | 131 | --- | 2.5 |
| 23 | 152 | --- | .80 | 97 | --- | .65 | 125 | --- | 1.5 |
| 24 | 148 | --- | .80 | 100 | --- | .60 | 122 | --- | 1.5 |
| 25 | 144 | --- | .80 | 97 | --- | .55 | 110 | 4 | 1.2 |
| 26 | 146 | --- | .80 | 95 | --- | .50 | 107 | --- | 1.5 |
| 27 | 140 | --- | .75 | 96 | 2 | .52 | 104 | --- | 1.5 |
| 28 | 140 | --- | .75 | 100 | --- | .55 | 101 | --- | 2.0 |
| 29 | 137 | --- | .75 | 96 | --- | .50 | 96 | --- | 2.0 |
| 30 | 134 | --- | .70 | 94 | --- | .50 | 96 | --- | 2.0 |
| 31 | 131 | --- | .70 | 100 | --- | .55 | --- | --- | --- |
| TOTAL | 6,148 | --- | 56.98 | 3,328 | --- | 22.95 | 3,638 | --- | 68.49 |
| YEAR | 247,799 | | 476,282.75 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 95 | 10 | 2.6 | 497 | 38 | 51 | 1,420 | --- | 200 |
| 2 | 93 | --- | 2.0 | 2,790 | 933 | 8,250 | 1,240 | --- | 100 |
| 3 | 92 | --- | 2.0 | 2,410 | 864 | 5,620 | 1,060 | --- | 55 |
| 4 | 104 | --- | 3.0 | 1,690 | 788 | 3,820 | 880 | --- | 30 |
| 5 | 105 | --- | 3.0 | 1,170 | 110 | 347 | 575 | --- | 9.0 |
| 6 | 95 | --- | 3.0 | 971 | 21 | 55 | 528 | --- | 7.5 |
| 7 | 91 | --- | 2.0 | 960 | 17 | 44 | 509 | --- | 7.0 |
| 8 | 95 | --- | 3.0 | 863 | 11 | 26 | 542 | --- | 8.0 |
| 9 | 141 | --- | 10 | 842 | 15 | 34 | 510 | 5 | 6.9 |
| 10 | 356 | 79 | 93 | 1,190 | 113 | 363 | 534 | --- | 7.5 |
| 11 | 491 | 37 | 49 | 1,380 | 152 | 566 | 477 | --- | 6.0 |
| 12 | 466 | 22 | 28 | 1,700 | 136 | 624 | 525 | --- | 7.5 |
| 13 | 582 | 22 | 35 | 1,810 | 184 | 899 | 540 | --- | 8.0 |
| 14 | 537 | 9 | 13 | 1,460 | 110 | 434 | 744 | --- | 15 |
| 15 | 430 | 4 | 4.6 | 1,100 | 24 | 71 | 942 | --- | 35 |
| 16 | 332 | 4 | 3.6 | 867 | 12 | 28 | 790 | --- | 20 |
| 17 | 283 | 7 | 5.3 | 745 | 12 | 24 | 650 | --- | 10 |
| 18 | 254 | 6 | 4.1 | 1,090 | 32 | 94 | 484 | --- | 6.5 |
| 19 | 231 | 4 | 2.5 | 1,050 | 34 | 96 | 444 | --- | 4.0 |
| 20 | 248 | 6 | 4.0 | 1,050 | 14 | 40 | 414 | --- | 3.0 |
| 21 | 218 | 3 | 1.8 | 869 | 7 | 16 | 413 | --- | 3.0 |
| 22 | 197 | --- | 2.0 | 733 | 4 | 7.9 | 555 | 13 | 19 |
| 23 | 188 | --- | 2.0 | 1,020 | 68 | 187 | 683 | 8 | 15 |
| 24 | 192 | --- | 3.0 | 985 | --- | 60 | 701 | 15 | 28 |
| 25 | 279 | 14 | 11 | 817 | 8 | 18 | 647 | 3 | 5.2 |
| 26 | 431 | 19 | 22 | 695 | --- | 15 | 630 | --- | 5.0 |
| 27 | 470 | 8 | 10 | 1,430 | --- | 890 | 610 | --- | 5.0 |
| 28 | 521 | 6 | 8.4 | 2,370 | --- | 2,500 | 590 | --- | 5.0 |
| 29 | 420 | 4 | 4.5 | 2,000 | 185 | 999 | 575 | --- | 4.5 |
| 30 | 374 | 5 | 5.0 | 1,600 | 83 | 359 | 560 | --- | 4.5 |
| 31 | 343 | 3 | 2.8 | --- | --- | --- | 540 | --- | 4.5 |
| TOTAL | 8,754 | --- | 345.2 | 38,154 | --- | 26,537.9 | 20,312 | --- | 644.6 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 520 | --- | 4.0 | 247 | --- | 1.5 | 442 | 6 | 7.2 |
| 2 | 504 | --- | 4.0 | 241 | --- | 1.5 | 404 | 6 | 6.5 |
| 3 | 493 | 3 | 4.0 | 217 | --- | 1.0 | 371 | 5 | 5.0 |
| 4 | 478 | --- | 4.0 | 219 | --- | 1.0 | 409 | 8 | 8.8 |
| 5 | 460 | --- | 3.5 | 217 | --- | 1.0 | 397 | 6 | 6.4 |
| 6 | 450 | --- | 3.5 | 217 | --- | 1.0 | 369 | 7 | 7.0 |
| 7 | 453 | --- | 4.0 | 253 | --- | 1.0 | 340 | 6 | 5.5 |
| 8 | 430 | --- | 4.0 | 227 | 2 | 1.2 | 322 | 6 | 5.2 |
| 9 | 403 | --- | 4.0 | 221 | --- | 1.0 | 314 | 8 | 6.8 |
| 10 | 375 | 5 | 5.1 | 242 | --- | 1.5 | 309 | 8 | 6.7 |
| 11 | 350 | 3 | 2.8 | 577 | 80 | 184 | 302 | 6 | 4.9 |
| 12 | 334 | --- | 2.5 | 620 | 26 | 44 | 306 | 9 | 7.4 |
| 13 | 321 | --- | 2.5 | 407 | 6 | 6.6 | 295 | --- | 5.0 |
| 14 | 335 | --- | 2.5 | 412 | 6 | 6.7 | 293 | --- | 5.0 |
| 15 | 355 | --- | 3.0 | 554 | 9 | 13 | 290 | --- | 4.5 |
| 16 | 341 | --- | 3.0 | 458 | 6 | 7.4 | 305 | --- | 5.0 |
| 17 | 378 | --- | 4.0 | 396 | 6 | 6.4 | 355 | --- | 6.0 |
| 18 | 393 | --- | 4.0 | 355 | 4 | 3.8 | 371 | --- | 6.0 |
| 19 | 389 | --- | 4.0 | 363 | 8 | 7.8 | 370 | --- | 6.0 |
| 20 | 412 | --- | 5.5 | 380 | 4 | 4.1 | 393 | --- | 7.0 |
| 21 | 393 | --- | 4.0 | 377 | 6 | 6.1 | 422 | --- | 7.0 |
| 22 | 371 | --- | 3.5 | 517 | 8 | 11 | 420 | --- | 7.0 |
| 23 | 355 | --- | 3.0 | 557 | 7 | 11 | 1,030 | --- | 100 |
| 24 | 335 | --- | 2.5 | 640 | 13 | 22 | 1,090 | --- | 100 |
| 25 | 318 | --- | 2.5 | 633 | 8 | 14 | 859 | --- | 40 |
| 26 | 303 | --- | 2.5 | 551 | 6 | 8.9 | 724 | --- | 30 |
| 27 | 288 | --- | 2.0 | 490 | 6 | 7.9 | 675 | --- | 20 |
| 28 | 282 | --- | 2.0 | 457 | 5 | 6.2 | 579 | --- | 20 |
| 29 | 269 | --- | 1.5 | --- | --- | --- | 516 | --- | 10 |
| 30 | 247 | --- | 1.5 | --- | --- | --- | 699 | --- | 20 |
| 31 | 247 | --- | 1.5 | --- | --- | --- | 911 | --- | 50 |
| TOTAL | 11,582 | --- | 100.4 | 11,045 | --- | 382.6 | 14,882 | --- | 525.9 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 976 | --- | 70 | 628 | 8 | 14 | 370 | 5 | 5.0 |
| 2 | 990 | --- | 85 | 718 | 12 | 23 | 388 | 2 | 2.1 |
| 3 | 983 | --- | 80 | 821 | 15 | 33 | 339 | 1 | .92 |
| 4 | 817 | --- | 30 | 657 | 8 | 14 | 405 | 8 | 8.7 |
| 5 | 719 | --- | 20 | 564 | 5 | 7.6 | 366 | 5 | 4.9 |
| 6 | 749 | --- | 25 | 507 | 6 | 8.2 | 454 | 30 | 37 |
| 7 | 870 | --- | 40 | 476 | 6 | 7.7 | 2,470 | 1,170 | 9,290 |
| 8 | 871 | --- | 40 | 455 | 5 | 6.1 | 1,490 | 385 | 1,650 |
| 9 | 872 | --- | 40 | 423 | 6 | 6.9 | 949 | 120 | 307 |
| 10 | 933 | --- | 55 | 435 | 6 | 7.0 | 709 | 57 | 109 |
| 11 | 1,020 | 42 | 116 | 432 | 6 | 7.0 | 572 | 25 | 39 |
| 12 | 934 | 23 | 58 | 381 | 4 | 4.1 | 494 | 13 | 17 |
| 13 | 808 | 14 | 31 | 375 | 6 | 6.1 | 444 | 16 | 19 |
| 14 | 777 | 10 | 21 | 428 | 3 | 3.5 | 407 | 9 | 9.9 |
| 15 | 784 | 10 | 21 | 391 | 1 | 1.1 | 383 | 8 | 8.3 |
| 16 | 774 | 11 | 23 | 466 | 5 | 6.3 | 339 | 6 | 5.5 |
| 17 | 631 | 8 | 14 | 584 | 8 | 13 | 307 | 6 | 5.0 |
| 18 | 565 | 6 | 9.2 | 585 | 5 | 7.9 | 287 | 6 | 4.6 |
| 19 | 518 | 6 | 8.4 | 524 | 3 | 4.2 | 273 | 5 | 3.7 |
| 20 | 466 | 6 | 7.5 | 451 | 2 | 2.4 | 258 | 6 | 4.2 |
| 21 | 416 | 5 | 5.6 | 407 | 1 | 1.1 | 241 | 7 | 4.6 |
| 22 | 435 | 5 | 5.9 | 406 | 1 | 1.1 | 228 | 3 | 1.8 |
| 23 | 721 | 18 | 35 | 416 | 2 | 2.2 | 218 | 2 | 1.2 |
| 24 | 599 | 9 | 15 | 419 | 3 | 3.4 | 209 | 3 | 1.7 |
| 25 | 561 | 6 | 9.1 | 400 | 2 | 2.2 | 201 | 2 | 1.1 |
| 26 | 516 | 4 | 5.6 | 371 | 2 | 2.0 | 192 | 2 | 1.0 |
| 27 | 597 | 7 | 11 | 344 | 2 | 1.9 | 184 | 4 | 2.0 |
| 28 | 752 | 7 | 14 | 325 | 2 | 1.8 | 180 | 1 | .49 |
| 29 | 686 | 8 | 15 | 368 | 10 | 9.9 | 175 | 3 | 1.4 |
| 30 | 626 | 7 | 12 | 370 | 1 | 1.0 | 175 | 2 | .95 |
| 31 | --- | --- | --- | 320 | 1 | .86 | --- | --- | --- |
| TOTAL | 21,966 | --- | 922.3 | 14,447 | --- | 210.56 | 13,707 | --- | 11,547.06 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 166 | 2 | 0.90 | 218 | 63 | 37 | 77 | --- | 0.40 |
| 2 | 159 | --- | .85 | 145 | 42 | 16 | 77 | --- | .40 |
| 3 | 152 | --- | .80 | 114 | --- | 4.0 | 75 | --- | .40 |
| 4 | 149 | --- | .80 | 99 | --- | .80 | 75 | --- | .40 |
| 5 | 148 | --- | .80 | 96 | --- | .50 | 91 | --- | .50 |
| 6 | 145 | --- | .80 | 88 | --- | .50 | 189 | --- | 20 |
| 7 | 142 | --- | .75 | 93 | --- | .50 | 129 | --- | 5.0 |
| 8 | 138 | --- | .75 | 165 | --- | 7.5 | 103 | --- | 3.0 |
| 9 | 133 | --- | .70 | 125 | --- | 1.5 | 106 | --- | 3.0 |
| 10 | 127 | --- | .70 | 111 | --- | .60 | 235 | 95 | 8.5 |
| 11 | 126 | --- | .70 | 101 | --- | .55 | 149 | --- | 9.0 |
| 12 | 123 | --- | .65 | 93 | --- | .50 | 158 | --- | 7.5 |
| 13 | 120 | --- | .65 | 91 | --- | .50 | 227 | 40 | 25 |
| 14 | 119 | --- | .65 | 85 | --- | .45 | 245 | 28 | 19 |
| 15 | 114 | --- | .60 | 83 | --- | .45 | 244 | 22 | 14 |
| 16 | 113 | --- | .60 | 82 | --- | .45 | 208 | 12 | 6.7 |
| 17 | 114 | --- | .60 | 80 | --- | .45 | 303 | 41 | 34 |
| 18 | 111 | --- | .60 | 78 | --- | .40 | 273 | 13 | 9.6 |
| 19 | 106 | --- | .55 | 79 | --- | .45 | 223 | 8 | 4.8 |
| 20 | 102 | --- | .55 | 80 | --- | .45 | 190 | 5 | 2.6 |
| 21 | 101 | --- | .55 | 81 | --- | .45 | 169 | --- | 2.0 |
| 22 | 101 | --- | .55 | 81 | --- | .45 | 155 | --- | 1.5 |
| 23 | 100 | --- | .55 | 77 | --- | .40 | 141 | --- | 1.0 |
| 24 | 100 | --- | .55 | 77 | --- | .40 | 133 | --- | 1.0 |
| 25 | 97 | --- | .50 | 77 | --- | .40 | 125 | --- | 1.0 |
| 26 | 91 | --- | .50 | 74 | --- | .40 | 119 | --- | .65 |
| 27 | 86 | --- | .45 | 73 | --- | .40 | 113 | --- | .60 |
| 28 | 86 | --- | .45 | 75 | --- | .40 | 107 | --- | .60 |
| 29 | 85 | --- | .45 | 73 | --- | .40 | 104 | --- | .50 |
| 30 | 86 | --- | .45 | 74 | --- | .40 | 101 | --- | .40 |
| 31 | 130 | --- | 5.0 | 84 | --- | .45 | --- | --- | --- |
| TOTAL | 3,670 | --- | 24.00 | 2,952 | --- | 78.10 | 4,644 | --- | 183.05 |
| YEAR | 166,115 | | 41,501.67 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 98 | 1 | 0.26 | 656 | 18 | 32 | 342 | --- | 1.9 |
| 2 | 98 | --- | .30 | 704 | 17 | 32 | 365 | --- | 2.2 |
| 3 | 100 | --- | .30 | 778 | 22 | 46 | 653 | --- | 27 |
| 4 | 93 | --- | .20 | 1,310 | 176 | 688 | 669 | --- | 33 |
| 5 | 89 | --- | .20 | 1,160 | --- | 50 | 707 | --- | 49 |
| 6 | 90 | --- | .20 | 1,690 | --- | 1,300 | 1,350 | --- | 660 |
| 7 | 131 | --- | 2.0 | 1,770 | 218 | 1,040 | 1,540 | --- | 1,000 |
| 8 | 99 | --- | .30 | 1,520 | --- | 480 | 1,160 | --- | 120 |
| 9 | 89 | --- | .20 | 1,280 | --- | 180 | 845 | 13 | 30 |
| 10 | 89 | --- | .20 | 1,050 | --- | 72 | 700 | --- | 23 |
| 11 | 117 | --- | 1.1 | 845 | --- | 28 | 595 | 9 | 14 |
| 12 | 146 | --- | 2.8 | 740 | --- | 17 | 518 | 5 | 7.0 |
| 13 | 120 | --- | 1.5 | 657 | --- | 12 | 458 | 4 | 4.9 |
| 14 | 117 | --- | 1.1 | 575 | --- | 7.0 | 422 | 4 | 4.6 |
| 15 | 139 | --- | 2.8 | 678 | --- | 13 | 391 | 3 | 3.2 |
| 16 | 183 | --- | 7.5 | 849 | --- | 30 | 360 | 2 | 1.9 |
| 17 | 163 | --- | 4.4 | 783 | --- | 21 | 346 | 1 | .93 |
| 18 | 142 | --- | 2.6 | 689 | --- | 14 | 333 | 2 | 1.8 |
| 19 | 217 | --- | 18 | 634 | --- | 10 | 326 | 2 | 1.8 |
| 20 | 570 | 223 | 343 | 604 | --- | 8.5 | 321 | 1 | .87 |
| 21 | 726 | 251 | 552 | 544 | --- | 6.2 | 314 | --- | .85 |
| 22 | 1,160 | 899 | 3,200 | 500 | --- | 5.0 | 303 | 2 | 1.6 |
| 23 | 873 | 210 | 495 | 448 | --- | 3.6 | 302 | 2 | 1.6 |
| 24 | 1,180 | 761 | 2,840 | 440 | --- | 3.4 | 300 | 1 | .81 |
| 25 | 1,760 | 1,120 | 6,080 | 432 | --- | 3.2 | 302 | 1 | .82 |
| 26 | 1,340 | 556 | 2,210 | 392 | --- | 2.5 | 301 | 1 | .81 |
| 27 | 1,280 | 321 | 1,320 | 384 | --- | 2.4 | 286 | --- | .77 |
| 28 | 1,420 | 1,070 | 4,390 | 377 | --- | 2.3 | 270 | --- | .73 |
| 29 | 1,010 | 238 | 649 | 356 | --- | 2.0 | 258 | 3 | 2.1 |
| 30 | 823 | 87 | 193 | 346 | --- | 1.9 | 243 | 2 | 1.3 |
| 31 | 704 | 63 | 120 | --- | --- | --- | 232 | 1 | .63 |
| TOTAL | 15,166 | --- | 22,437.96 | 23,191 | --- | 4,113.0 | 15,512 | --- | 1,999.12 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 391 | 15 | 18 | 1,010 | 42 | 115 | 813 | 20 | 44 |
| 2 | 384 | 6 | 8.2 | 906 | 23 | 56 | 703 | 14 | 27 |
| 3 | 569 | 27 | 46 | 938 | 26 | 66 | 641 | 7 | 12 |
| 4 | 432 | 2 | 2.3 | 902 | 18 | 44 | 610 | 5 | 8.2 |
| 5 | 633 | 35 | 93 | 862 | 16 | 37 | 535 | 5 | 7.2 |
| 6 | 985 | 77 | 219 | 738 | 15 | 30 | 491 | 10 | 13 |
| 7 | 718 | 9 | 17 | 637 | 8 | 14 | 753 | 55 | 132 |
| 8 | 705 | 16 | 30 | 561 | 5 | 7.6 | 863 | 43 | 100 |
| 9 | 809 | 17 | 41 | 504 | 4 | 5.4 | 956 | 54 | 139 |
| 10 | 907 | 18 | 44 | 461 | 2 | 2.5 | 824 | 17 | 38 |
| 11 | 830 | 12 | 27 | 423 | 2 | 2.3 | 994 | 46 | 123 |
| 12 | 691 | 6 | 11 | 395 | 1 | 1.1 | 1,130 | 83 | 253 |
| 13 | 596 | 5 | 8.0 | 380 | 1 | 1.0 | 1,060 | 34 | 97 |
| 14 | 536 | 4 | 5.8 | 403 | 3 | 3.3 | 880 | 20 | 48 |
| 15 | 522 | 6 | 8.5 | 940 | 98 | 334 | 741 | 10 | 20 |
| 16 | 737 | 38 | 87 | 2,010 | 263 | 1,520 | 646 | 6 | 10 |
| 17 | 838 | 54 | 122 | 1,370 | 41 | 152 | 591 | 6 | 9.6 |
| 18 | 2,490 | 2,740 | 23,100 | 1,060 | 18 | 52 | 595 | 7 | 11 |
| 19 | 2,940 | 4,100 | 37,600 | 883 | 12 | 29 | 596 | 10 | 16 |
| 20 | 1,660 | 431 | 1,930 | 780 | 6 | 13 | 567 | 4 | 6.1 |
| 21 | 1,080 | 218 | 636 | 782 | 14 | 30 | 613 | 7 | 12 |
| 22 | 1,070 | 385 | 1,220 | 1,080 | 56 | 163 | 551 | 4 | 6.0 |
| 23 | 1,600 | 480 | 2,070 | 4,160 | 3,590 | 55,900 | 640 | 16 | 46 |
| 24 | 1,250 | 172 | 580 | 4,200 | 1,760 | 22,900 | 1,150 | 47 | 146 |
| 25 | 978 | 67 | 177 | 2,440 | 278 | 1,830 | 940 | 22 | 56 |
| 26 | 818 | 41 | 91 | 1,760 | --- | 880 | 882 | 14 | 33 |
| 27 | 771 | 28 | 58 | 1,200 | 75 | 243 | 713 | 5 | 9.6 |
| 28 | 721 | 17 | 33 | 976 | 43 | 113 | 632 | 5 | 8.5 |
| 29 | 751 | 20 | 41 | --- | --- | --- | 565 | 3 | 4.6 |
| 30 | 1,120 | 121 | 366 | --- | --- | --- | 602 | 8 | 13 |
| 31 | 1,020 | 43 | 118 | --- | --- | --- | 511 | 2 | 2.8 |
| TOTAL | 29,552 | --- | 68,807.8 | 32,761 | --- | 84,544.2 | 22,788 | --- | 1,451.6 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 497 | 3 | 4.0 | 634 | 3 | 5.1 | 246 | --- | 2.7 |
| 2 | 501 | 3 | 4.1 | 735 | 4 | 7.9 | 230 | --- | 2.5 |
| 3 | 464 | 2 | 2.5 | 727 | 4 | 7.9 | 217 | --- | 2.3 |
| 4 | 458 | 2 | 2.5 | 660 | 4 | 7.1 | 211 | --- | 2.3 |
| 5 | 430 | 2 | 2.3 | 783 | 7 | 15 | 202 | --- | 2.2 |
| 6 | 402 | 2 | 2.2 | 706 | 3 | 5.7 | 199 | --- | 1.8 |
| 7 | 382 | 2 | 2.1 | 652 | 3 | 5.3 | 222 | --- | 2.1 |
| 8 | 366 | 1 | .99 | 624 | 2 | 3.4 | 200 | --- | 1.6 |
| 9 | 358 | 4 | 3.9 | 599 | 6 | 9.7 | 180 | --- | 1.5 |
| 10 | 335 | 1 | .90 | 624 | 5 | 8.4 | 165 | --- | 1.3 |
| 11 | 346 | 4 | 3.7 | 649 | 3 | 5.3 | 155 | --- | 1.3 |
| 12 | 384 | 2 | 2.1 | 648 | 4 | 7.0 | 147 | --- | 1.2 |
| 13 | 372 | 5 | 5.0 | 870 | 9 | 21 | 138 | --- | .75 |
| 14 | 337 | 1 | .91 | 816 | 5 | 11 | 144 | --- | .78 |
| 15 | 399 | 3 | 3.2 | 721 | 2 | 3.9 | 147 | --- | .79 |
| 16 | 513 | 8 | 11 | 587 | 2 | 3.2 | 134 | --- | .72 |
| 17 | 644 | 10 | 17 | 524 | 2 | 2.8 | 146 | --- | .79 |
| 18 | 618 | 3 | 5.0 | 489 | 2 | 2.6 | 212 | --- | 1.1 |
| 19 | 547 | 2 | 3.0 | 467 | 1 | 1.3 | 220 | 2 | 1.2 |
| 20 | 514 | 5 | 6.9 | 617 | 4 | 6.7 | 156 | 1 | .42 |
| 21 | 501 | 2 | 2.7 | 567 | 4 | 6.1 | 145 | 1 | .39 |
| 22 | 480 | 5 | 6.5 | 512 | 4 | 5.5 | 131 | 1 | .35 |
| 23 | 438 | 1 | 1.2 | 456 | 2 | 2.5 | 120 | 1 | .32 |
| 24 | 402 | 2 | 2.2 | 430 | 1 | 1.2 | 111 | 1 | .30 |
| 25 | 452 | 3 | 3.7 | 387 | 3 | 3.1 | 108 | --- | .29 |
| 26 | 507 | 7 | 9.6 | 375 | 1 | 1.0 | 103 | --- | .28 |
| 27 | 670 | 11 | 20 | 357 | 2 | 1.9 | 100 | --- | .27 |
| 28 | 786 | 5 | 11 | 347 | 3 | 2.8 | 103 | --- | .28 |
| 29 | 757 | 5 | 10 | 299 | 2 | 1.6 | 114 | 1 | .31 |
| 30 | 683 | 4 | 7.4 | 273 | 3 | 2.2 | 103 | --- | .28 |
| 31 | --- | --- | --- | 258 | 6 | 4.2 | --- | --- | --- |
| TOTAL | 14,543 | --- | 157.60 | 17,393 | --- | 172.4 | 4,809 | --- | 32.42 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 95 | --- | 0.26 | 77 | --- | 0.21 | 74 | --- | 36 |
| 2 | 97 | --- | .26 | 76 | --- | .21 | 69 | --- | 32 |
| 3 | 100 | --- | .27 | 74 | --- | .20 | 69 | --- | 30 |
| 4 | 149 | 1 | .40 | 73 | --- | .20 | 67 | --- | 27 |
| 5 | 107 | --- | .29 | 73 | --- | .20 | 62 | 144 | 24 |
| 6 | 93 | --- | .25 | 75 | --- | .20 | 59 | --- | 22 |
| 7 | 86 | --- | .23 | 72 | --- | .19 | 58 | --- | 20 |
| 8 | 85 | --- | .23 | 70 | --- | .19 | 63 | --- | 21 |
| 9 | 85 | --- | .23 | 70 | --- | .19 | 115 | --- | 35 |
| 10 | 148 | 3 | 1.2 | 69 | --- | .19 | 78 | --- | 22 |
| 11 | 178 | 1 | .48 | 72 | --- | .19 | 70 | --- | 18 |
| 12 | 118 | --- | .32 | 77 | --- | .21 | 62 | --- | 14 |
| 13 | 102 | --- | .27 | 74 | --- | .20 | 59 | --- | 12 |
| 14 | 96 | --- | .26 | 72 | --- | .19 | 62 | --- | 11 |
| 15 | 103 | --- | .28 | 70 | --- | .19 | 61 | --- | 10 |
| 16 | 177 | 1 | .48 | 67 | --- | .18 | 81 | 50 | 11 |
| 17 | 191 | 1 | .52 | 67 | --- | .18 | 74 | --- | 8.2 |
| 18 | 137 | 1 | .37 | 68 | --- | .18 | 105 | --- | 9.1 |
| 19 | 114 | --- | .31 | 69 | 1 | .19 | 75 | --- | 4.7 |
| 20 | 102 | --- | .27 | 68 | --- | .18 | 82 | --- | 3.1 |
| 21 | 97 | --- | .26 | 64 | --- | .17 | 68 | --- | .92 |
| 22 | 94 | --- | .25 | 64 | --- | .17 | 63 | --- | .17 |
| 23 | 97 | --- | .26 | 63 | --- | .17 | 150 | 827 | 720 |
| 24 | 100 | --- | .27 | 63 | --- | .17 | 255 | 2,390 | 1,900 |
| 25 | 93 | --- | .25 | 65 | --- | .18 | 269 | 1,040 | 919 |
| 26 | 89 | --- | .24 | 65 | --- | .18 | 324 | 561 | 565 |
| 27 | 91 | --- | .25 | 63 | --- | .17 | 211 | 80 | 46 |
| 28 | 89 | --- | .24 | 65 | --- | .18 | 210 | 35 | 20 |
| 29 | 85 | --- | .23 | 73 | --- | .20 | 297 | 983 | 885 |
| 30 | 82 | --- | .22 | 83 | --- | 44 | 300 | 177 | 143 |
| 31 | 79 | --- | .21 | 84 | --- | 43 | --- | --- | --- |
| TOTAL | 3,359 | --- | 9.86 | 2,185 | --- | 92.46 | 3,592 | --- | 5,569.19 |
| YEAR | 184,851 | | 189,387.61 TONS | | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 195 | 30 | 16 | 510 | 4,370 | 6,020 | 851 | --- | 80 |
| 2 | 174 | 26 | 12 | 380 | 5,360 | 5,500 | 706 | 23 | 44 |
| 3 | 154 | 15 | 6.2 | 330 | 1,100 | 980 | 612 | 6 | 9.9 |
| 4 | 138 | 12 | 4.5 | 292 | --- | 660 | 548 | 5 | 7.4 |
| 5 | 132 | 13 | 4.6 | 289 | --- | 650 | 633 | 8 | 14 |
| 6 | 123 | --- | 4.0 | 273 | --- | 600 | 574 | 4 | 6.2 |
| 7 | 115 | --- | 4.0 | 446 | --- | 3,700 | 508 | 1 | 1.4 |
| 8 | 107 | --- | 4.0 | 375 | --- | 1,000 | 463 | 1 | 1.3 |
| 9 | 104 | --- | 3.5 | 360 | --- | 900 | 430 | 1 | 1.2 |
| 10 | 101 | --- | 3.5 | 319 | --- | 750 | 404 | 2 | 2.2 |
| 11 | 93 | --- | 3.5 | 305 | --- | 700 | 387 | 2 | 2.1 |
| 12 | 90 | --- | 3.0 | 311 | 874 | 734 | 393 | 1 | 1.1 |
| 13 | 89 | --- | 3.0 | 304 | --- | 700 | 441 | 4 | 4.8 |
| 14 | 88 | --- | 3.0 | 299 | --- | 700 | 731 | 25 | 49 |
| 15 | 86 | --- | 2.5 | 287 | --- | 650 | 713 | 15 | 29 |
| 16 | 85 | --- | 2.5 | 331 | --- | 800 | 590 | 10 | 16 |
| 17 | 84 | --- | 2.0 | 496 | 958 | 1,280 | 508 | 20 | 27 |
| 18 | 83 | --- | 2.0 | 714 | 3,630 | 8,950 | 454 | 20 | 25 |
| 19 | 81 | --- | 2.0 | 925 | 1,610 | 4,020 | 423 | 16 | 18 |
| 20 | 80 | --- | 1.5 | 1,590 | 2,900 | 13,400 | 385 | --- | 10 |
| 21 | 76 | --- | 1.5 | 1,820 | 2,490 | 12,200 | 392 | --- | 10 |
| 22 | 76 | --- | 1.5 | 2,360 | 1,370 | 8,730 | 704 | 237 | 810 |
| 23 | 74 | --- | 1.0 | 3,750 | 3,540 | 49,300 | 1,330 | 306 | 1,230 |
| 24 | 71 | --- | 1.0 | 4,980 | 2,910 | 39,100 | 1,000 | 47 | 127 |
| 25 | 103 | --- | 1,500 | 2,640 | 1,250 | 9,420 | 878 | 73 | 229 |
| 26 | 200 | 33,000 | 17,800 | 1,970 | 849 | 4,520 | 1,120 | 120 | 411 |
| 27 | 350 | --- | 20,000 | 2,230 | 960 | 5,780 | 866 | 26 | 61 |
| 28 | 330 | --- | 10,000 | 1,890 | 494 | 2,520 | 777 | 20 | 42 |
| 29 | 300 | 1,960 | 1,590 | 1,400 | 101 | 382 | 1,440 | 383 | 1,730 |
| 30 | 700 | 7,340 | 13,900 | 1,070 | --- | 200 | 1,360 | 229 | 841 |
| 31 | 695 | 3,890 | 7,300 | --- | --- | --- | 1,030 | 56 | 156 |
| TOTAL | 5,177 | --- | 72,182.3 | 33,246 | --- | 184,846 | 21,651 | --- | 5,996.6 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,130 | 90 | 275 | 6,650 | 6,380 | 128,000 | 654 | 31 | 55 |
| 2 | 1,120 | 67 | 203 | 2,870 | 1,990 | 15,400 | 1,420 | 1,020 | 4,920 |
| 3 | 1,660 | 375 | 1,680 | 1,980 | 793 | 4,240 | 5,360 | 5,540 | 96,000 |
| 4 | 1,530 | 195 | 806 | 1,500 | 305 | 1,240 | 3,890 | 4,050 | 47,800 |
| 5 | 1,170 | 61 | 193 | 1,270 | 166 | 569 | 2,100 | 1,270 | 7,200 |
| 6 | 932 | 10 | 25 | 1,090 | 143 | 421 | 1,640 | 668 | 2,960 |
| 7 | 780 | 12 | 25 | 963 | 69 | 179 | 1,210 | 309 | 1,010 |
| 8 | 677 | 6 | 11 | 854 | 48 | 111 | 1,020 | 183 | 504 |
| 9 | 602 | 5 | 8.1 | 770 | 44 | 91 | 1,020 | 187 | 515 |
| 10 | 563 | 3 | 4.6 | 698 | 30 | 57 | 1,380 | 352 | 1,310 |
| 11 | 561 | 4 | 6.1 | 689 | 38 | 71 | 1,290 | 159 | 554 |
| 12 | 1,070 | 103 | 320 | 606 | 28 | 46 | 2,160 | 1,470 | 8,570 |
| 13 | 1,020 | 43 | 118 | 733 | 131 | 288 | 2,220 | 924 | 5,540 |
| 14 | 978 | 24 | 63 | 835 | 139 | 313 | 2,050 | 425 | 2,350 |
| 15 | 778 | 6 | 13 | 752 | 62 | 126 | 1,560 | 189 | 796 |
| 16 | 676 | 5 | 9.1 | 829 | 101 | 226 | 1,250 | 111 | 375 |
| 17 | 605 | 4 | 6.5 | 793 | 48 | 103 | 1,340 | 129 | 467 |
| 18 | 571 | 2 | 3.1 | 700 | 36 | 68 | 1,190 | 56 | 180 |
| 19 | 530 | 4 | 5.7 | 641 | 31 | 54 | 1,080 | 40 | 117 |
| 20 | 490 | 4 | 5.3 | 594 | 23 | 37 | 1,020 | 32 | 88 |
| 21 | 467 | 3 | 3.8 | 553 | 15 | 22 | 877 | 44 | 104 |
| 22 | 453 | 4 | 4.9 | 559 | 20 | 30 | 761 | 29 | 60 |
| 23 | 481 | 4 | 5.2 | 545 | 10 | 15 | 710 | --- | 50 |
| 24 | 671 | 6 | 11 | 509 | 10 | 14 | 627 | --- | 37 |
| 25 | 714 | 5 | 9.6 | 471 | 10 | 13 | 561 | --- | 27 |
| 26 | 938 | 75 | 262 | 447 | 10 | 12 | 536 | --- | 20 |
| 27 | 1,340 | 108 | 391 | 435 | 15 | 18 | 488 | --- | 14 |
| 28 | 1,510 | 94 | 383 | 439 | 10 | 12 | 446 | --- | 10 |
| 29 | 1,300 | 41 | 144 | --- | --- | --- | 411 | --- | 4.5 |
| 30 | 1,240 | 32 | 107 | --- | --- | --- | 384 | 4 | 4.1 |
| 31 | 1,820 | 380 | 3,280 | --- | --- | --- | 366 | 1 | 1.0 |
| TOTAL | 28,377 | --- | 8,382.0 | 29,775 | --- | 151,776 | 41,021 | --- | 181,642.6 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 358 | 1 | 0.97 | 437 | 8 | 9.4 | 563 | 13 | 20 |
| 2 | 375 | 3 | 3.0 | 533 | --- | 8.0 | 438 | 9 | 11 |
| 3 | 414 | 5 | 5.6 | 524 | --- | 7.0 | 364 | 6 | 5.9 |
| 4 | 427 | 3 | 3.5 | 452 | --- | 5.5 | 318 | 4 | 3.4 |
| 5 | 394 | 2 | 2.1 | 405 | 4 | 4.4 | 293 | 6 | 4.7 |
| 6 | 394 | 1 | 1.1 | 379 | 4 | 4.1 | 280 | 5 | 3.8 |
| 7 | 389 | 1 | 1.1 | 366 | 4 | 4.0 | 251 | 4 | 2.7 |
| 8 | 579 | 12 | 19 | 342 | 5 | 4.6 | 233 | --- | 2.5 |
| 9 | 470 | 2 | 2.5 | 318 | 6 | 5.2 | 222 | --- | 2.0 |
| 10 | 578 | 8 | 12 | 293 | 6 | 4.7 | 213 | --- | 2.0 |
| 11 | 660 | 5 | 8.9 | 277 | 8 | 6.0 | 198 | --- | 2.0 |
| 12 | 595 | 2 | 3.2 | 460 | 22 | 27 | 188 | --- | 1.5 |
| 13 | 528 | 1 | 1.4 | 328 | 10 | 8.9 | 181 | --- | 1.5 |
| 14 | 487 | 1 | 1.3 | 319 | 8 | 6.9 | 173 | --- | 1.0 |
| 15 | 479 | 1 | 1.3 | 298 | 8 | 6.4 | 165 | 2 | .89 |
| 16 | 469 | 1 | 1.3 | 270 | 7 | 5.1 | 160 | --- | .80 |
| 17 | 585 | 1 | 1.6 | 251 | 6 | 4.1 | 154 | --- | .75 |
| 18 | 554 | 1 | 1.5 | 240 | 4 | 2.6 | 148 | --- | .70 |
| 19 | 509 | 1 | 1.4 | 233 | 5 | 3.1 | 143 | --- | .60 |
| 20 | 465 | 1 | 1.3 | 223 | 7 | 4.2 | 144 | --- | .50 |
| 21 | 430 | 1 | 1.2 | 210 | 4 | 2.3 | 189 | --- | 2.0 |
| 22 | 410 | 2 | 2.2 | 204 | 5 | 2.8 | 178 | 4 | 1.9 |
| 23 | 396 | 4 | 4.3 | 198 | 7 | 3.7 | 149 | 5 | 2.0 |
| 24 | 387 | 3 | 3.1 | 188 | --- | 4.0 | 137 | 8 | 3.0 |
| 25 | 363 | 7 | 6.9 | 184 | 8 | 4.0 | 131 | 1 | .35 |
| 26 | 341 | 6 | 5.5 | 179 | 3 | 1.4 | 127 | 2 | .69 |
| 27 | 340 | 13 | 12 | 179 | 3 | 1.4 | 126 | 3 | 1.0 |
| 28 | 366 | 8 | 7.9 | 189 | 6 | 3.1 | 122 | 3 | .99 |
| 29 | 347 | 5 | 4.7 | 184 | 5 | 2.5 | 121 | 2 | .65 |
| 30 | 342 | 14 | 13 | 424 | 48 | 79 | 117 | 2 | .63 |
| 31 | --- | --- | --- | 730 | 40 | 79 | --- | --- | --- |
| TOTAL | 13,431 | --- | 134.87 | 9,817 | --- | 314.4 | 6,226 | --- | 81.45 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 114 | 5 | 1.5 | 83 | | 1.0 | 65 | --- | 7.5 |
| 2 | 112 | 4 | 1.2 | 79 | | 1.0 | 67 | 40 | 7.2 |
| 3 | 112 | 5 | 1.5 | 77 | | 1.0 | 70 | --- | 10 |
| 4 | 115 | 3 | .93 | 77 | | .95 | 64 | --- | 7.5 |
| 5 | 150 | --- | .85 | 77 | | .90 | 64 | --- | 7.5 |
| 6 | 133 | --- | .75 | 79 | | .85 | 64 | --- | 7.5 |
| 7 | 118 | --- | .65 | 76 | | .75 | 64 | --- | 7.5 |
| 8 | 115 | --- | .60 | 74 | | .70 | 64 | --- | 7.5 |
| 9 | 114 | --- | .50 | 73 | | .60 | 64 | --- | 7.5 |
| 10 | 127 | --- | 1.5 | 73 | | .55 | 62 | --- | 6.5 |
| 11 | 113 | --- | 1.5 | 74 | | .45 | 63 | --- | 7.0 |
| 12 | 106 | --- | 1.0 | 72 | | .40 | 69 | --- | 10 |
| 13 | 101 | --- | 1.0 | 87 | | 1.0 | 65 | --- | 7.5 |
| 14 | 99 | --- | .95 | 110 | | 45 | 75 | --- | 15 |
| 15 | 97 | --- | .80 | 97 | | 30 | 133 | --- | 85 |
| 16 | 96 | --- | .65 | 88 | | 20 | 86 | --- | 20 |
| 17 | 99 | --- | .50 | 80 | | 15 | 72 | --- | 10 |
| 18 | 137 | 4 | 1.5 | 75 | | 15 | 66 | --- | 8.5 |
| 19 | 132 | 6 | 2.1 | 73 | | 10 | 64 | --- | 7.5 |
| 20 | 107 | --- | 1.0 | 71 | | 10 | 64 | --- | 7.5 |
| 21 | 98 | --- | .55 | 69 | | 10 | 63 | --- | 7.0 |
| 22 | 96 | 1 | .26 | 68 | | 9.0 | 63 | --- | 7.0 |
| 23 | 102 | --- | .85 | 71 | | 10 | 63 | --- | 7.0 |
| 24 | 113 | --- | 3.0 | 72 | | 10 | 63 | --- | 7.0 |
| 25 | 101 | 18 | 4.9 | 70 | | 10 | 66 | --- | 8.5 |
| 26 | 98 | 7 | 1.9 | 69 | | 10 | 82 | --- | 15 |
| 27 | 95 | 6 | 1.5 | 69 | | 10 | 71 | --- | 10 |
| 28 | 89 | 4 | .96 | 69 | | 10 | 65 | --- | 7.5 |
| 29 | 86 | 6 | 1.4 | 66 | | 8.5 | 63 | --- | 7.0 |
| 30 | 84 | --- | 1.5 | 67 | | 9.0 | 63 | --- | 7.0 |
| 31 | 83 | --- | 1.5 | 66 | | 8.5 | --- | --- | --- |
| TOTAL | 3,342 | --- | 39.30 | 2,351 | | 260.15 | 2,067 | --- | 337.2 |
| YEAR | 196,481 | | 605,992.87 TONS | | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 26... | 1240 | 9.5 | 130 | 10.0 | 4 | 1.4 | -- | -- | -- | -- | -- |
| 31... | 1310 | 11.5 | 306 | 10.0 | 238 | 197 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 01... | 1235 | 7.5 | 294 | 10.0 | 535 | 425 | -- | -- | -- | -- | -- |
| 03... | 1025 | 9.5 | 3,810 | 20.0 | 13,600 | 140,000 | 10 | 19 | 29 | 49 | 69 |
| 03... | 1110 | 9.5 | 3,600 | 20.0 | 21,600 | 210,000 | 15 | 19 | 25 | 45 | 68 |
| 03... | 1345 | 9.5 | 3,780 | 20.0 | 9,330 | 95,200 | 7 | 8 | 10 | 22 | 37 |
| 03... | 1710 | 9.5 | 4,290 | 20.0 | 6,240 | 72,300 | 5 | 6 | 11 | 20 | 31 |
| 04... | 1015 | 9.5 | 2,510 | 20.0 | 3,040 | 20,600 | 3 | 4 | 7 | 13 | 19 |
| 08... | 1315 | 8.5 | 1,280 | 10.0 | 436 | 1,510 | -- | -- | -- | -- | -- |
| 14... | 1015 | 8.0 | 2,970 | 20.0 | 2,190 | 17,600 | -- | -- | -- | -- | -- |
| 14... | 1205 | 8.0 | 2,990 | 20.0 | 1,880 | 15,200 | -- | -- | -- | -- | -- |
| 14... | 1500 | 8.0 | 3,310 | 20.0 | 2,310 | 20,600 | -- | -- | -- | -- | -- |
| 17... | 0800 | 8.0 | 4,450 | 20.0 | 5,050 | 60,700 | -- | -- | -- | -- | -- |
| 17... | 1000 | 8.0 | 4,240 | 20.0 | 4,440 | 50,800 | -- | -- | -- | -- | -- |
| 21... | 1150 | 7.5 | 1,990 | 20.0 | 624 | 3,350 | -- | -- | -- | -- | -- |
| 30... | 1345 | 4.5 | 769 | 10.0 | 32 | 66 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 13... | 1145 | 7.0 | 1,400 | 20.0 | 56 | 212 | -- | -- | -- | -- | -- |
| 20... | 1330 | 2.0 | 526 | 10.0 | 6 | 8.5 | -- | -- | -- | -- | -- |
| 30... | 1345 | -- | 893 | 20.0 | 104 | 251 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 03... | 1050 | 8.0 | 2,350 | 20.0 | 1,300 | 8,250 | -- | -- | -- | -- | -- |
| 03... | 1220 | 8.0 | 2,290 | 20.0 | 1,060 | 6,550 | -- | -- | -- | -- | -- |
| 19... | 1155 | 2.5 | 348 | 10.0 | 4 | 3.8 | -- | -- | -- | -- | -- |
| 24... | 0915 | 6.0 | 3,880 | 20.0 | 1,610 | 16,900 | -- | -- | -- | -- | -- |
| 24... | 1130 | 6.0 | 3,680 | 20.0 | 1,450 | 14,400 | -- | -- | -- | -- | -- |
| 25... | 1715 | 6.0 | 3,400 | 20.0 | 1,230 | 11,300 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | 1210 | 5.5 | 614 | 20.0 | 8 | 13 | -- | -- | -- | -- | -- |
| 13... | 1125 | 6.0 | 2,390 | 20.0 | 460 | 2,970 | -- | -- | -- | -- | -- |
| 24... | 1335 | 6.0 | 1,090 | 10.0 | 52 | 153 | -- | -- | -- | -- | -- |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 08... | 1045 | 7.0 | 501 | 10.0 | 5 | 6.8 | 58 | -- | -- | -- | -- |
| 22... | 1420 | 9.0 | 1,580 | 20.0 | 130 | 555 | 14 | 24 | 46 | 85 | 100 |
| APR | | | | | | | | | | | |
| 05... | 1255 | 7.0 | 590 | 10.0 | 11 | 18 | 36 | -- | -- | -- | -- |
| 05... | 1257 | 7.0 | 590 | 10.0 | 11 | 18 | 36 | -- | -- | -- | -- |
| 09... | 1330 | 6.0 | 945 | 10.0 | 20 | 51 | 28 | -- | -- | -- | -- |
| 26... | 1145 | 9.0 | 426 | 20.0 | 22 | 25 | 45 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 15... | 1225 | 8.0 | 883 | 20.0 | 12 | 29 | 45 | -- | -- | -- | -- |
| JUN | | | | | | | | | | | |
| 08... | 1305 | 8.5 | 563 | 10.0 | 3 | 4.6 | 95 | -- | -- | -- | -- |
| 21... | 1015 | 10.0 | 1,600 | 20.0 | 160 | 691 | 27 | -- | -- | -- | -- |
| 21... | 1230 | 10.0 | 1,500 | 20.0 | 103 | 417 | 33 | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 12... | 1215 | 14.5 | 204 | 10.0 | 2 | 1.1 | 73 | -- | -- | -- | -- |
| 17... | 1420 | 17.0 | 185 | 10.0 | 2 | 1.0 | 70 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 15... | 1140 | 17.0 | 103 | 10.0 | 3 | 0.83 | 77 | -- | -- | -- | -- |
| 27... | 1610 | 16.0 | 93 | 10.0 | 2 | 0.50 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 06... | 1425 | 15.0 | 165 | 10.0 | 17 | 7.6 | 54 | -- | -- | -- | -- |
| 18... | 1310 | 16.0 | 102 | 10.0 | 3 | 0.83 | 36 | -- | -- | -- | -- |
| 25... | 1325 | 12.5 | 110 | 10.0 | 4 | 1.2 | 85 | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 26... | -- | 68 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | -- | 99 | -- | 100 | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 01... | -- | 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03... | -- | 85 | -- | 92 | -- | 97 | -- | 99 | -- | 100 | -- |
| 03... | -- | 85 | -- | 95 | -- | 98 | -- | 100 | -- | -- | -- |
| 03... | -- | 56 | -- | 82 | -- | 95 | -- | 99 | -- | 100 | -- |
| 03... | -- | 46 | -- | 70 | -- | 91 | -- | 99 | -- | 100 | -- |
| 04... | -- | 29 | -- | 47 | -- | 78 | -- | 96 | -- | 100 | -- |
| 08... | -- | 19 | -- | 31 | -- | 60 | -- | 97 | -- | 100 | -- |
| 14... | 22 | 23 | 39 | -- | 75 | -- | 97 | -- | 99 | -- | 100 |
| 14... | 30 | 23 | 45 | -- | 80 | -- | 98 | -- | 100 | -- | -- |
| 14... | 22 | 23 | 37 | -- | 72 | -- | 99 | -- | 100 | -- | -- |
| 17... | 31 | 30 | 54 | -- | 86 | -- | 99 | -- | 100 | -- | -- |
| 17... | 33 | 30 | 55 | -- | 86 | -- | 99 | -- | 100 | -- | -- |
| 21... | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 13... | -- | 17 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20... | -- | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | 35 | -- | 49 | -- | 69 | -- | 100 | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 03... | -- | 47 | -- | 62 | -- | 81 | -- | 100 | -- | -- | -- |
| 03... | -- | 54 | -- | 67 | -- | 85 | -- | 100 | -- | -- | -- |
| 19... | -- | 66 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | 24 | -- | 37 | -- | 65 | -- | 94 | -- | 100 | -- |
| 24... | -- | 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13... | -- | 25 | -- | 37 | -- | 65 | -- | 94 | -- | 100 | -- |
| 24... | -- | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 01... | 1300 | 12.0 | 99 | 10.0 | 10 | 2.7 | -- | -- |
| 11... | 1350 | 10.5 | 455 | 10.0 | 32 | 39 | -- | -- |
| 18... | 1245 | 7.0 | 256 | 10.0 | 3 | 2.1 | -- | -- |
| NOV | | | | | | | | |
| 02... | 1015 | 8.0 | 3,200 | 20.0 | 1,360 | 11,800 | -- | -- |
| 02... | 1155 | 8.0 | 3,930 | 20.0 | 1,940 | 20,600 | 6 | 8 |
| 23... | 1350 | 7.0 | 1,480 | 20.0 | 177 | 707 | -- | -- |
| 30... | 1140 | 6.0 | 1,600 | 20.0 | 83 | 359 | -- | -- |
| JAN | | | | | | | | |
| 03... | 1630 | 4.0 | 497 | 10.0 | 3 | 4.0 | -- | -- |
| FEB | | | | | | | | |
| 08... | 1300 | 2.0 | 229 | 20.0 | 2 | 1.2 | -- | -- |
| MAR | | | | | | | | |
| 12... | 1355 | 8.5 | 306 | 10.0 | 9 | 7.4 | -- | -- |
| APR | | | | | | | | |
| 11... | 1400 | 10.0 | 1,260 | 10.0 | 90 | 306 | -- | -- |
| MAY | | | | | | | | |
| 14... | 1415 | 9.0 | 428 | 10.0 | 2 | 2.3 | -- | -- |
| JUN | | | | | | | | |
| 04... | 1235 | 13.5 | 483 | 10.0 | 8 | 10 | -- | -- |
| 07... | 1345 | 11.0 | 3,160 | 20.0 | 1,730 | 14,800 | -- | -- |
| 12... | 1305 | 16.0 | 497 | 10.0 | 11 | 15 | -- | -- |
| JUL | | | | | | | | |
| 01... | 1315 | 17.5 | 169 | 10.0 | 2 | 0.91 | -- | -- |
| AUG | | | | | | | | |
| 02... | 1310 | 17.5 | 140 | 10.0 | 8 | 3.0 | -- | -- |
| SEP | | | | | | | | |
| 10... | 1320 | 12.5 | 339 | 10.0 | 202 | 185 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 01... | 1310 | 12.0 | 98 | 10.0 | 1 | 0.26 | -- | -- | -- | -- | -- | -- |
| 25... | 1315 | 9.0 | 1,700 | 20.0 | 711 | 3,260 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 04... | 1415 | 8.5 | 1,410 | 20.0 | 196 | 746 | -- | -- | -- | -- | -- | -- |
| 07... | 1155 | 8.5 | 1,860 | 20.0 | 246 | 1,240 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 09... | 1255 | 2.0 | 835 | 10.0 | 14 | 32 | -- | -- | -- | -- | -- | -- |
| 26... | 1255 | 2.5 | 302 | 10.0 | 0 | 0.0 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 21... | 1440 | 6.0 | 1,030 | 20.0 | 204 | 567 | -- | -- | -- | -- | -- | -- |
| 29... | 1350 | 9.0 | 718 | 20.0 | 169 | 328 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 07... | 1315 | 5.0 | 620 | 10.0 | 6 | 10 | -- | -- | -- | -- | -- | -- |
| 14... | 1305 | 3.5 | 377 | 10.0 | 10 | 10 | -- | -- | -- | -- | -- | -- |
| 24... | 0600 | 9.0 | 4,800 | 20.0 | 2,400 | 31,100 | 33 | 30 | 50 | 82 | 98 | 100 |
| 27... | 1350 | 10.0 | 1,150 | 10.0 | 94 | 292 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 07... | 1315 | 10.5 | 917 | 10.0 | 100 | 248 | -- | -- | -- | -- | -- | -- |
| 31... | 1305 | 10.0 | 522 | 10.0 | 2 | 2.8 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 28... | 1300 | -- | 646 | 10.0 | 8 | 14 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 29... | 1415 | 19.5 | 291 | 10.0 | 4 | 3.1 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 19... | 1350 | -- | 202 | 10.0 | 4 | 2.2 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 16... | 1300 | -- | 157 | 10.0 | 4 | 1.7 | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 19... | 1250 | 19.0 | 70 | 10.0 | 1 | 0.19 | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 05... | 1200 | 19.0 | 62 | 10.0 | 144 | 24 | -- | -- | -- | -- | -- | -- |
| 16... | 1220 | 15.0 | 86 | 10.0 | 50 | 12 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 01... | -- | -- | -- | 40 | -- | -- | -- | -- |
| 11... | -- | -- | -- | 66 | -- | -- | -- | -- |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | |
| 02... | -- | -- | -- | 45 | 62 | 83 | 97 | 100 |
| 02... | 10 | 18 | 28 | 40 | 61 | 84 | 97 | 100 |
| 23... | -- | -- | -- | 19 | -- | -- | -- | -- |
| 30... | -- | -- | -- | 13 | -- | -- | -- | -- |
| JAN | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- |
| 07... | -- | -- | -- | 62 | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 01... | 1250 | 18.0 | 194 | 10.0 | 30 | 16 | -- | -- | -- | -- | -- |
| 29... | 1335 | -- | 272 | 10.0 | 1,960 | 1,440 | -- | -- | -- | -- | -- |
| 30... | 1330 | 9.5 | 533 | 10.0 | 4,700 | 6,760 | 3 | 4 | 5 | 10 | 18 |
| NOV | | | | | | | | | | | |
| 03... | 1200 | 9.5 | 316 | 10.0 | 1,070 | 913 | -- | -- | -- | -- | -- |
| 12... | 1340 | 7.5 | 341 | 20.0 | 834 | 768 | -- | -- | -- | -- | -- |
| 17... | 1055 | -- | 491 | 10.0 | 1,110 | 1,470 | -- | -- | -- | -- | -- |
| 19... | 1240 | 8.0 | 896 | 10.0 | 1,460 | 3,530 | -- | -- | -- | -- | -- |
| 21... | 1355 | 8.5 | 1,790 | 20.0 | 1,080 | 5,220 | -- | -- | -- | -- | -- |
| 22... | 1200 | 8.0 | 2,670 | 20.0 | 1,800 | 13,000 | -- | -- | -- | -- | -- |
| 23... | 1310 | -- | 3,090 | 20.0 | 1,860 | 15,500 | -- | -- | -- | -- | -- |
| 24... | 1538 | 8.0 | 5,190 | 20.0 | 2,830 | 39,700 | -- | -- | -- | -- | -- |
| 24... | 1541 | -- | 5,190 | 20.0 | 3,020 | 42,300 | 3 | 5 | 9 | 14 | 22 |
| 25... | 1230 | 7.0 | 2,590 | 20.0 | 1,110 | 7,760 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 02... | 1505 | 5.0 | 695 | 10.0 | 28 | 53 | -- | -- | -- | -- | -- |
| 22... | 1340 | -- | 567 | 10.0 | 41 | 63 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 07... | 1305 | 3.0 | 768 | 10.0 | 12 | 25 | -- | -- | -- | -- | -- |
| 30... | 1455 | -- | 1,250 | 10.0 | 40 | 135 | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | 1230 | 7.0 | 6,570 | 20.0 | 6,980 | 124,000 | -- | -- | -- | -- | -- |
| 01... | 1350 | 7.0 | 5,980 | 20.0 | 5,840 | 94,300 | -- | -- | -- | -- | -- |
| 01... | 1535 | 7.0 | 5,270 | 20.0 | 5,000 | 71,100 | -- | -- | -- | -- | -- |
| 02... | 0935 | 6.0 | 2,950 | 20.0 | 1,880 | 15,000 | -- | -- | -- | -- | -- |
| 09... | 1315 | -- | 770 | 10.0 | 44 | 91 | -- | -- | -- | -- | -- |
| 12... | 1245 | 8.0 | 601 | 10.0 | 28 | 45 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 04... | 1205 | 8.0 | 3,710 | 20.0 | 3,460 | 34,700 | -- | -- | -- | -- | -- |
| 10... | 1340 | 10.0 | 1,370 | 20.0 | 292 | 1,080 | -- | -- | -- | -- | -- |
| 30... | 1440 | 14.5 | 397 | 10.0 | 4 | 4.3 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 05... | 1250 | 13.5 | 405 | 10.0 | 4 | 4.4 | -- | -- | -- | -- | -- |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) |
|---|---|---|---|---|---|---|
| JUN | | | | | | |
| 15... | 1310 | 15.0 | 165 | 10.0 | 2 | 0.89 |
| JUL | | | | | | |
| 22... | 1400 | 17.5 | 96 | 10.0 | 1 | 0.26 |
| SEP | | | | | | |
| 02... | 1325 | 20.0 | 73 | 10.0 | 40 | 7.9 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | -- | 43 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 38 | -- | 86 | -- | 100 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 03... | 19 | -- | 50 | -- | 88 | -- | 99 | -- | 100 | -- | -- |
| 12... | -- | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21... | 28 | -- | 47 | -- | 81 | -- | 99 | -- | 100 | -- | -- |
| 22... | 19 | -- | 31 | -- | 64 | -- | 98 | -- | 100 | -- | -- |
| 23... | 25 | -- | 44 | -- | 71 | -- | 91 | -- | 100 | -- | -- |
| 24... | 37 | -- | 59 | -- | 88 | -- | 99 | -- | 100 | -- | -- |
| 24... | 33 | -- | 54 | -- | 84 | -- | 99 | -- | 100 | -- | -- |
| 25... | 28 | -- | 43 | -- | 80 | -- | 100 | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 07... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 01... | -- | 37 | -- | 58 | -- | 82 | -- | 98 | -- | 100 | -- |
| 01... | -- | 36 | -- | 56 | -- | 84 | -- | 99 | -- | 100 | -- |
| 01... | -- | 36 | -- | 53 | -- | 81 | -- | 99 | -- | 100 | -- |
| 02... | -- | 27 | -- | 38 | -- | 64 | -- | 97 | -- | 100 | -- |
| 09... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 04... | 33 | -- | 52 | -- | 88 | -- | 99 | -- | 100 | -- | -- |
| 10... | 16 | -- | 28 | -- | 62 | -- | 97 | -- | 100 | -- | -- |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 01... | 1258 | 86 | 99 | 100 | -- | -- | -- | -- |
| 01... | 1302 | 66 | 74 | 82 | 95 | 98 | 99 | 100 |
| 01... | 1306 | 57 | 97 | 100 | -- | -- | -- | -- |
| 30... | 1442 | 40 | 52 | 83 | 99 | 100 | -- | -- |
| 30... | 1444 | 1 | 15 | 69 | 97 | 99 | 100 | -- |
| 30... | 1446 | 3 | 25 | 83 | 99 | 100 | -- | -- |
| 30... | 1448 | 1 | 17 | 87 | 100 | -- | -- | -- |
| 30... | 1450 | 2 | 19 | 86 | 100 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | |
| 03... | 1230 | 0 | 4 | 55 | 100 | -- | -- | -- | -- | -- | -- | -- |
| 03... | 1235 | 0 | 5 | 51 | 98 | 100 | -- | -- | -- | -- | -- | -- |
| 03... | 1240 | 0 | 4 | 46 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 03... | 1245 | 29 | 49 | 65 | 86 | 97 | 99 | 100 | -- | -- | -- | -- |
| 03... | 1250 | 9 | 13 | 42 | 87 | 98 | 99 | 99 | 99 | 100 | -- | -- |
| 12... | 1415 | 0 | 0 | 5 | 30 | 35 | 35 | 35 | 35 | 36 | 62 | 100 |
| 12... | 1420 | 0 | 1 | 17 | 69 | 98 | 100 | -- | -- | -- | -- | -- |
| 12... | 1425 | 0 | 2 | 21 | 80 | 99 | 100 | -- | -- | -- | -- | -- |
| 12... | 1430 | 0 | 1 | 12 | 73 | 99 | 100 | -- | -- | -- | -- | -- |
| 12... | 1435 | 0 | 1 | 8 | 61 | 99 | 100 | -- | -- | -- | -- | -- |
| 17... | 1130 | 0 | 1 | 13 | 75 | 99 | 100 | -- | -- | -- | -- | -- |
| 17... | 1135 | 0 | 2 | 17 | 81 | 99 | 100 | -- | -- | -- | -- | -- |
| 17... | 1140 | 2 | 3 | 11 | 41 | 75 | 83 | 85 | 87 | 91 | 100 | -- |
| 17... | 1157 | 2 | 2 | 11 | 47 | 69 | 71 | 72 | 74 | 76 | 100 | -- |
| 17... | 1206 | 0 | 3 | 23 | 85 | 99 | 100 | -- | -- | -- | -- | -- |
| 19... | 1315 | 1 | 5 | 26 | 84 | 99 | 100 | -- | -- | -- | -- | -- |
| 19... | 1320 | 0 | 1 | 13 | 74 | 99 | 100 | -- | -- | -- | -- | -- |
| 19... | 1325 | 0 | 2 | 17 | 80 | 99 | 100 | -- | -- | -- | -- | -- |
| 19... | 1330 | 1 | 1 | 9 | 52 | 95 | 100 | -- | -- | -- | -- | -- |
| 19... | 1335 | 1 | 2 | 18 | 52 | 91 | 99 | 100 | -- | -- | -- | -- |
| 21... | 1430 | 0 | 1 | 4 | 22 | 79 | 96 | 97 | 97 | 100 | -- | -- |
| 21... | 1435 | 0 | 4 | 29 | 95 | 100 | -- | -- | -- | -- | -- | -- |
| 21... | 1440 | 0 | 4 | 35 | 88 | 99 | 100 | -- | -- | -- | -- | -- |
| 21... | 1445 | 1 | 4 | 48 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 22... | 1441 | 0 | 1 | 18 | 74 | 91 | 91 | 91 | 91 | 91 | 100 | -- |
| 22... | 1449 | 0 | 1 | 9 | 58 | 95 | 99 | 100 | -- | -- | -- | -- |
| 25... | 1300 | 0 | 0 | 9 | 65 | 97 | 98 | 99 | 99 | 100 | -- | -- |
| 25... | 1305 | 0 | 0 | 2 | 7 | 12 | 21 | 32 | 52 | 81 | 100 | -- |
| 25... | 1310 | 0 | 0 | 1 | 3 | 4 | 5 | 5 | 5 | 8 | 31 | 100 |
| MAR | | | | | | | | | | | | |
| 04... | 1230 | 1 | 3 | 21 | 82 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 1235 | 0 | 0 | 5 | 32 | 50 | 61 | 75 | 88 | 97 | 100 | -- |
| 04... | 1240 | 0 | 0 | 1 | 2 | 3 | 3 | 4 | 6 | 22 | 100 | -- |

## 14242580 TOUTLE RIVER AT TOWER ROAD NEAR SILVER LAKE, WA

**LOCATION.**--Lat 46°20′02″, long 122°50′20″, in NW ¼ SW ¼ sec. 20, T.10 N., R.1 W., Cowlitz County, Hydrologic Unit 17080005, on right bank 10 mi downstream from confluence of North and South Forks, 2.9 mi northwest of Silver Lake, and at mile 6.5.

**DRAINAGE AREA.**--496 $mi^2$, of which approximately 21 $mi^2$ is noncontributing. Prior to July 7, 1981, the noncontributing portion was approximately 40 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--February 1981 through September 1987.

**GAGE.**--Water-stage recorder. Datum of gage is 109.12 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.**--(Mar. 20, 1982 is lahar-runout flow.)

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Feb. 19, 1981 | 1830 | 32,600 |
| 1982 | Feb. 20, 1982 | 1230 | 104,000 |
| 1982 | Mar. 20, 1982 | 0048 | 1,160,000 |
| 1983 | Dec. 3, 1982 | 1805 | 113,000 |
| 1984 | Nov. 3, 1983 | 1405 | 128,000 |
| 1985 | Nov. 2, 1984 | 1115 | 24,800 |
| 1986 | Feb. 23, 1986 | 1810 | 25,400 |
| 1987 | Feb. 1, 1987 | 1045 | 28,100 |

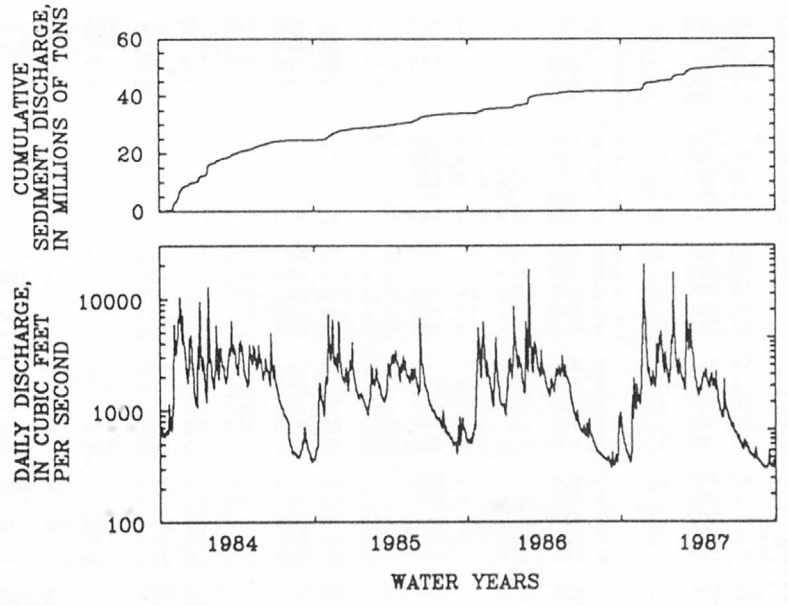


Figure 12.--Cumulative daily suspended-sediment discharge and daily mean stream discharge, water years 1984-87, Toutle River at Tower Road near Silver Lake, Wash. (14242580).

14242580 TOUTLE RIVER AT TOWER ROAD NEAR SILVER LAKE, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 668 | --- | 11,000 | 1,060 | --- | 39,000 | 2,760 | 7,380 | 55,000 |
| 2 | 682 | --- | 12,000 | 1,370 | 22,000 | 81,400 | 2,520 | 7,520 | 51,200 |
| 3 | 666 | 6,410 | 11,500 | 5,870 | 61,700 | 1,270,000 | 2,300 | --- | 49,000 |
| 4 | 718 | --- | 12,000 | 5,910 | 48,300 | 771,000 | 2,000 | --- | 47,000 |
| 5 | 680 | 5,320 | 9,770 | 3,260 | --- | 140,000 | 2,020 | 8,730 | 47,600 |
| 6 | 655 | --- | 9,700 | 4,000 | --- | 190,000 | 1,840 | 9,360 | 46,500 |
| 7 | 641 | 10,800 | 18,700 | 4,170 | 18,000 | 203,000 | 1,790 | 6,490 | 31,400 |
| 8 | 629 | --- | 12,000 | 3,740 | --- | 82,000 | 2,380 | --- | 70,000 |
| 9 | 620 | --- | 10,000 | 3,180 | 7,900 | 67,800 | 2,360 | 10,400 | 66,300 |
| 10 | 607 | 5,900 | 9,670 | 3,420 | --- | 120,000 | 4,430 | --- | 200,000 |
| 11 | 584 | --- | 9,000 | 4,420 | 19,300 | 230,000 | 4,150 | --- | 120,000 |
| 12 | 594 | 5,770 | 9,250 | 4,510 | --- | 210,000 | 4,160 | 8,900 | 100,000 |
| 13 | 597 | 4,920 | 7,930 | 6,190 | --- | 350,000 | 4,680 | --- | 130,000 |
| 14 | 638 | 5,670 | 9,770 | 6,850 | 21,500 | 398,000 | 4,720 | 9,360 | 119,000 |
| 15 | 631 | --- | 9,500 | 6,330 | 16,600 | 284,000 | 4,050 | --- | 69,000 |
| 16 | 616 | --- | 9,000 | 7,750 | 16,000 | 335,000 | 3,490 | 4,630 | 43,600 |
| 17 | 665 | 9,180 | 16,500 | 10,300 | 26,800 | 745,000 | 2,920 | --- | 40,000 |
| 18 | 651 | --- | 10,000 | 10,300 | 19,400 | 577,000 | 2,470 | --- | 35,000 |
| 19 | 642 | 4,710 | 8,160 | 6,130 | --- | 190,000 | 2,220 | 5,360 | 32,100 |
| 20 | 652 | --- | 9,000 | 8,150 | 17,700 | 411,000 | 1,910 | --- | 26,000 |
| 21 | 624 | 5,690 | 9,590 | 5,960 | 13,100 | 211,000 | 1,570 | --- | 21,000 |
| 22 | 1,150 | --- | 110,000 | 4,540 | 10,900 | 134,000 | 1,390 | --- | 17,000 |
| 23 | 968 | --- | 60,000 | 4,000 | 9,400 | 102,000 | 1,260 | --- | 15,000 |
| 24 | 825 | 4,870 | 10,800 | 7,080 | --- | 410,000 | 1,150 | --- | 14,000 |
| 25 | 731 | --- | 11,000 | 5,840 | 14,100 | 222,000 | 1,280 | --- | 17,000 |
| 26 | 697 | 5,930 | 11,200 | 4,060 | --- | 82,000 | 1,310 | 7,340 | 26,000 |
| 27 | 681 | --- | 10,000 | 4,160 | --- | 84,000 | 1,210 | --- | 25,000 |
| 28 | 671 | 4,910 | 8,900 | 4,020 | 7,200 | 78,100 | 1,080 | 8,100 | 23,600 |
| 29 | 666 | --- | 8,500 | 3,590 | --- | 68,000 | 1,850 | --- | 70,000 |
| 30 | 737 | --- | 16,000 | 3,170 | 9,900 | 84,700 | 3,760 | 19,000 | 193,000 |
| 31 | 1,110 | 12,700 | 38,100 | --- | --- | --- | 3,000 | --- | 65,000 |
| TOTAL | 21,696 | --- | 508,540 | 153,330 | --- | 8,170,000 | 78,030 | --- | 1,865,300 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 2,400 | --- | 35,000 | 2,370 | 13,600 | 87,000 | 2,490 | 6,200 | 41,700 |
| 2 | 3,140 | 9,400 | 88,200 | 2,080 | 14,400 | 80,900 | 2,510 | 7,820 | 53,000 |
| 3 | 7,810 | 22,900 | 601,000 | 1,900 | 11,800 | 60,500 | 2,460 | --- | 50,000 |
| 4 | 9,430 | 14,800 | 377,000 | 1,800 | --- | 50,000 | 2,180 | --- | 40,000 |
| 5 | 6,800 | --- | 230,000 | 1,740 | --- | 45,000 | 2,040 | 6,160 | 33,900 |
| 6 | 4,540 | 10,000 | 123,000 | 1,680 | 9,360 | 42,500 | 1,900 | --- | 33,000 |
| 7 | 3,310 | --- | 80,000 | 1,580 | 4,580 | 19,500 | 1,830 | 6,580 | 32,500 |
| 8 | 2,840 | --- | 60,000 | 1,650 | 6,220 | 27,700 | 1,790 | --- | 25,000 |
| 9 | 2,320 | 7,150 | 44,800 | 1,980 | --- | 37,000 | 1,810 | 5,170 | 25,300 |
| 10 | 2,470 | --- | 50,000 | 2,120 | 7,480 | 42,800 | 1,970 | --- | 29,000 |
| 11 | 3,010 | 7,480 | 60,800 | 2,500 | --- | 54,000 | 2,000 | --- | 30,000 |
| 12 | 2,780 | --- | 55,000 | 5,150 | --- | 170,000 | 2,420 | 6,190 | 40,400 |
| 13 | 2,660 | --- | 50,000 | 5,800 | 14,800 | 232,000 | 2,520 | --- | 34,000 |
| 14 | 2,310 | --- | 45,000 | 4,440 | 12,000 | 144,000 | 3,110 | 7,110 | 59,700 |
| 15 | 1,970 | --- | 40,000 | 3,610 | 8,580 | 83,600 | 3,630 | --- | 76,000 |
| 16 | 1,800 | 7,020 | 34,100 | 2,890 | --- | 55,000 | 3,320 | --- | 45,000 |
| 17 | 1,570 | --- | 25,000 | 2,330 | 5,850 | 36,800 | 3,300 | --- | 40,000 |
| 18 | 1,460 | 5,180 | 20,400 | 2,020 | --- | 30,000 | 3,130 | --- | 35,000 |
| 19 | 1,300 | --- | 20,000 | 1,910 | --- | 25,000 | 3,190 | 4,330 | 37,300 |
| 20 | 1,200 | 9,620 | 31,200 | 2,450 | 7,980 | 52,800 | 3,920 | --- | 63,000 |
| 21 | 1,210 | --- | 30,000 | 3,600 | 7,070 | 68,700 | 6,350 | 14,000 | 240,000 |
| 22 | 1,920 | --- | 77,000 | 3,010 | 8,000 | 65,000 | 5,040 | --- | 150,000 |
| 23 | 3,610 | 19,500 | 290,000 | 2,820 | --- | 55,000 | 4,340 | 9,000 | 105,000 |
| 24 | 12,800 | 40,900 | 1,410,000 | 3,690 | 6,580 | 65,600 | 3,640 | --- | 80,000 |
| 25 | 12,500 | 30,400 | 1,090,000 | 3,230 | --- | 60,000 | 3,280 | --- | 60,000 |
| 26 | 8,310 | 13,800 | 310,000 | 2,920 | --- | 55,000 | 3,860 | 7,930 | 82,600 |
| 27 | 5,580 | 12,900 | 194,000 | 2,720 | 6,860 | 50,400 | 3,460 | --- | 65,000 |
| 28 | 3,450 | --- | 110,000 | 2,520 | 5,940 | 40,400 | 3,650 | 7,350 | 72,400 |
| 29 | 2,740 | --- | 90,000 | 2,240 | 6,700 | 40,500 | 3,510 | 6,360 | 60,300 |
| 30 | 2,950 | --- | 95,000 | --- | --- | --- | 3,010 | 8,280 | 67,300 |
| 31 | 2,770 | --- | 90,000 | --- | --- | --- | 2,730 | --- | 45,000 |
| TOTAL | 122,960 | --- | 5,856,500 | 78,750 | --- | 1,876,700 | 94,390 | --- | 1,851,400 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 2,430 | --- | 25,000 | 2,490 | --- | 42,000 | 2,160 | 6,380 | 37,200 |
| 2 | 2,500 | 3,940 | 26,600 | 3,880 | 5,360 | 56,200 | 2,000 | --- | 32,000 |
| 3 | 2,310 | --- | 24,000 | 3,500 | 7,020 | 66,300 | 1,890 | --- | 30,000 |
| 4 | 2,130 | 3,840 | 22,100 | 3,050 | 5,920 | 48,800 | 2,120 | 6,600 | 37,800 |
| 5 | 2,230 | --- | 26,000 | 3,100 | --- | 50,000 | 2,190 | --- | 39,000 |
| 6 | 2,110 | 4,960 | 28,300 | 3,140 | --- | 50,000 | 2,140 | --- | 37,000 |
| 7 | 3,370 | --- | 100,000 | 2,620 | 6,360 | 45,000 | 2,360 | 7,060 | 45,000 |
| 8 | 3,970 | --- | 120,000 | 2,870 | --- | 45,000 | 2,950 | --- | 55,000 |
| 9 | 3,470 | 6,620 | 62,000 | 2,890 | 3,260 | 25,400 | 2,940 | --- | 55,000 |
| 10 | 4,030 | 6,050 | 65,800 | 2,600 | --- | 21,000 | 2,650 | --- | 50,000 |
| 11 | 3,870 | 5,750 | 60,100 | 3,080 | --- | 35,000 | 2,450 | --- | 45,000 |
| 12 | 4,220 | --- | 65,000 | 3,850 | --- | 45,000 | 2,300 | --- | 45,000 |
| 13 | 3,710 | 4,050 | 40,600 | 3,470 | --- | 35,000 | 2,340 | --- | 45,000 |
| 14 | 3,440 | --- | 35,000 | 3,610 | 11,600 | 113,000 | 2,210 | --- | 40,000 |
| 15 | 3,820 | --- | 60,000 | 3,490 | 13,400 | 126,000 | 2,150 | --- | 40,000 |
| 16 | 3,480 | 5,850 | 55,000 | 3,260 | 10,100 | 88,900 | 2,000 | 6,880 | 37,200 |
| 17 | 2,940 | --- | 45,000 | 2,690 | 7,250 | 52,700 | 1,840 | --- | 34,000 |
| 18 | 2,670 | 5,350 | 38,600 | 2,380 | 6,160 | 39,600 | 1,730 | 6,770 | 31,600 |
| 19 | 2,330 | --- | 30,000 | 2,530 | --- | 45,000 | 1,670 | 6,760 | 30,500 |
| 20 | 2,220 | 4,210 | 25,200 | 2,840 | --- | 60,000 | 2,190 | 9,640 | 57,000 |
| 21 | 2,090 | --- | 25,000 | 2,390 | 5,620 | 36,300 | 4,920 | 10,000 | 133,000 |
| 22 | 2,040 | --- | 25,000 | 2,620 | --- | 45,000 | 3,570 | 5,120 | 49,400 |
| 23 | 2,030 | 4,880 | 26,700 | 3,830 | 8,350 | 86,300 | 2,930 | --- | 40,000 |
| 24 | 1,920 | 4,280 | 22,200 | 3,180 | 8,150 | 70,000 | 2,610 | --- | 35,000 |
| 25 | 1,860 | 4,670 | 23,500 | 2,970 | 4,410 | 35,400 | 2,390 | 4,730 | 30,500 |
| 26 | 1,730 | --- | 19,000 | 3,270 | --- | 50,000 | 2,220 | --- | 28,000 |
| 27 | 1,650 | 3,350 | 14,900 | 2,910 | --- | 40,000 | 2,010 | 4,510 | 24,500 |
| 28 | 1,670 | --- | 15,000 | 2,700 | 5,200 | 37,900 | 1,950 | --- | 24,000 |
| 29 | 1,820 | --- | 29,000 | 2,730 | --- | 40,000 | 2,580 | 5,640 | 39,300 |
| 30 | 1,750 | 5,700 | 26,900 | 2,900 | 8,160 | 63,900 | 2,170 | --- | 28,000 |
| 31 | --- | --- | --- | 2,600 | --- | 53,000 | --- | --- | --- |
| TOTAL | 79,810 | --- | 1,181,500 | 93,440 | --- | 1,647,700 | 71,630 | --- | 1,255,000 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 1,950 | 4,620 | 24,300 | 571 | 2,580 | 3,980 | 524 | --- | 1,400 |
| 2 | 1,780 | 4,260 | 20,500 | 548 | --- | 3,600 | 508 | --- | 1,300 |
| 3 | 1,700 | --- | 20,000 | 521 | 2,230 | 3,140 | 507 | 952 | 1,300 |
| 4 | 1,660 | --- | 19,000 | 499 | --- | 2,700 | 532 | --- | 1,300 |
| 5 | 1,610 | --- | 19,000 | 489 | --- | 2,600 | 576 | 896 | 1,390 |
| 6 | 1,530 | 4,260 | 17,600 | 482 | 1,880 | 2,450 | 700 | --- | 3,000 |
| 7 | 1,410 | --- | 16,000 | 456 | --- | 2,200 | 692 | 1,480 | 2,770 |
| 8 | 1,350 | --- | 16,000 | 434 | 1,630 | 1,910 | 699 | --- | 2,800 |
| 9 | 1,290 | 4,290 | 14,900 | 421 | --- | 1,700 | 585 | --- | 2,300 |
| 10 | 1,250 | --- | 15,000 | 414 | 1,410 | 1,580 | 526 | 1,460 | 2,070 |
| 11 | 1,190 | 4,740 | 15,200 | 410 | --- | 1,500 | 516 | 1,500 | 2,090 |
| 12 | 1,180 | --- | 15,000 | 412 | --- | 1,500 | 543 | 1,280 | 1,880 |
| 13 | 1,150 | 4,830 | 15,000 | 428 | 1,380 | 1,590 | 488 | --- | 1,700 |
| 14 | 1,120 | --- | 15,000 | 413 | --- | 1,200 | 455 | 1,250 | 1,540 |
| 15 | 1,090 | --- | 15,000 | 412 | 1,010 | 1,120 | 444 | --- | 1,200 |
| 16 | 1,060 | 5,240 | 15,000 | 406 | 876 | 960 | 442 | --- | 1,200 |
| 17 | 1,060 | --- | 15,000 | 408 | 825 | 909 | 434 | 784 | 919 |
| 18 | 1,040 | 5,240 | 14,700 | 404 | --- | 900 | 424 | --- | 880 |
| 19 | 1,000 | --- | 13,000 | 395 | --- | 900 | 398 | 777 | 835 |
| 20 | 953 | 4,500 | 11,600 | 388 | 1,340 | 1,400 | 384 | --- | 750 |
| 21 | 928 | --- | 11,000 | 381 | --- | 900 | 360 | 682 | 663 |
| 22 | 917 | --- | 10,000 | 381 | 840 | 864 | 380 | --- | 750 |
| 23 | 885 | 4,060 | 9,700 | 383 | --- | 900 | 373 | --- | 800 |
| 24 | 872 | --- | 11,000 | 379 | 920 | 941 | 346 | 1,020 | 953 |
| 25 | 867 | 4,900 | 11,500 | 380 | --- | 940 | 348 | --- | 900 |
| 26 | 868 | --- | 11,000 | 397 | --- | 1,000 | 360 | 818 | 795 |
| 27 | 837 | 4,850 | 11,000 | 413 | 1,040 | 1,160 | 365 | --- | 800 |
| 28 | 828 | --- | 11,000 | 434 | --- | 1,500 | 364 | 832 | 818 |
| 29 | 809 | --- | 11,000 | 429 | 1,260 | 1,460 | 362 | --- | 800 |
| 30 | 789 | 4,720 | 10,100 | 446 | --- | 1,300 | 363 | --- | 810 |
| 31 | 749 | --- | 9,000 | 467 | 987 | 1,240 | --- | --- | --- |
| TOTAL | 35,722 | --- | 443,100 | 13,401 | --- | 50,044 | 13,998 | --- | 40,713 |
| YEAR | 857,157 | | 24,746,497 | TONS | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 367 | 1,260 | 1,250 | 1,860 | 4,360 | 24,800 | 3,790 | 3,810 | 39,000 |
| 2 | 375 | 906 | 917 | 6,840 | 17,900 | 331,000 | 3,000 | 3,450 | 27,900 |
| 3 | 427 | 2,370 | 2,730 | 7,320 | 12,300 | 243,000 | 2,480 | 3,450 | 23,100 |
| 4 | 446 | --- | 2,600 | 5,500 | --- | 150,000 | 2,330 | --- | 15,000 |
| 5 | 461 | 2,220 | 2,760 | 3,800 | 7,610 | 78,100 | 2,260 | 2,560 | 15,600 |
| 6 | 451 | --- | 3,000 | 3,300 | --- | 65,000 | 2,070 | 3,010 | 16,800 |
| 7 | 465 | --- | 3,500 | 3,320 | 6,700 | 60,100 | 1,870 | 3,870 | 19,500 |
| 8 | 489 | 2,770 | 3,660 | 2,830 | --- | 50,000 | 1,950 | 4,320 | 22,700 |
| 9 | 580 | --- | 4,500 | 2,880 | 5,710 | 44,400 | 1,870 | 4,080 | 20,600 |
| 10 | 1,060 | 5,910 | 19,100 | 3,680 | 7,570 | 79,000 | 1,910 | 5,010 | 25,800 |
| 11 | 1,440 | --- | 26,000 | 4,270 | 6,580 | 75,900 | 1,750 | --- | 20,000 |
| 12 | 1,470 | 5,790 | 23,000 | 5,180 | 6,980 | 97,600 | 1,920 | 4,590 | 23,800 |
| 13 | 1,750 | --- | 25,000 | 6,500 | 9,860 | 173,000 | 1,960 | 4,700 | 24,900 |
| 14 | 1,710 | --- | 20,000 | 5,800 | 11,300 | 177,000 | 2,270 | 5,500 | 36,300 |
| 15 | 1,600 | 3,610 | 15,600 | 4,020 | 8,220 | 89,200 | 2,430 | --- | 35,000 |
| 16 | 1,440 | --- | 13,000 | 2,860 | 6,400 | 49,400 | 2,060 | --- | 20,000 |
| 17 | 1,310 | 3,050 | 10,800 | 2,610 | 7,630 | 53,800 | 1,970 | 3,210 | 17,100 |
| 18 | 1,220 | --- | 10,000 | 3,000 | 10,400 | 84,200 | 1,770 | --- | 15,000 |
| 19 | 1,170 | 3,380 | 10,700 | 2,820 | 8,380 | 63,800 | 1,610 | --- | 15,000 |
| 20 | 1,150 | --- | 11,000 | 2,750 | 9,390 | 69,700 | 1,540 | --- | 15,000 |
| 21 | 1,050 | --- | 8,500 | 2,570 | 3,470 | 24,100 | 1,500 | 4,600 | 18,600 |
| 22 | 970 | 2,560 | 6,700 | 2,470 | --- | 20,000 | 2,010 | --- | 25,000 |
| 23 | 902 | --- | 7,000 | 3,220 | 6,750 | 69,400 | 2,650 | --- | 35,000 |
| 24 | 891 | 3,390 | 8,160 | 3,060 | --- | 45,000 | 2,830 | --- | 35,000 |
| 25 | 1,100 | --- | 20,000 | 2,510 | --- | 30,000 | 2,530 | --- | 30,000 |
| 26 | 1,850 | 10,300 | 51,400 | 2,220 | 3,850 | 23,100 | 2,320 | 4,260 | 26,700 |
| 27 | 1,830 | --- | 35,000 | 3,440 | --- | 60,000 | 2,570 | 4,340 | 30,100 |
| 28 | 2,000 | --- | 35,000 | 6,260 | 11,400 | 193,000 | 2,380 | 4,050 | 26,000 |
| 29 | 1,760 | 3,630 | 17,200 | 5,900 | --- | 150,000 | 3,180 | 5,480 | 50,200 |
| 30 | 1,800 | --- | 20,000 | 5,160 | 5,690 | 79,300 | 4,110 | 4,330 | 48,100 |
| 31 | 1,740 | --- | 18,000 | --- | --- | --- | 3,050 | 3,740 | 30,800 |
| TOTAL | 35,274 | --- | 436,077 | 117,950 | --- | 2,752,900 | 71,940 | --- | 803,600 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 2,600 | 3,540 | 24,900 | 1,040 | 2,140 | 6,010 | 1,830 | 3,890 | 19,200 |
| 2 | 2,210 | 2,860 | 17,100 | 1,020 | 2,050 | 5,650 | 1,710 | --- | 20,000 |
| 3 | 1,980 | --- | 15,000 | 921 | 1,790 | 4,450 | 1,600 | --- | 15,000 |
| 4 | 1,870 | 3,390 | 17,100 | 912 | --- | 8,500 | 1,720 | 3,780 | 17,600 |
| 5 | 1,800 | --- | 15,000 | 1,040 | 1,620 | 4,550 | 1,630 | --- | 15,000 |
| 6 | 1,730 | --- | 15,000 | 1,030 | 1,510 | 4,200 | 1,530 | 2,320 | 9,580 |
| 7 | 1,650 | 2,640 | 11,800 | 1,240 | 2,230 | 7,470 | 1,430 | 2,320 | 8,960 |
| 8 | 1,580 | --- | 10,000 | 1,200 | 1,770 | 5,730 | 1,350 | 2,010 | 7,330 |
| 9 | 1,510 | 2,290 | 9,340 | 1,220 | 1,830 | 6,030 | 1,330 | 1,940 | 6,970 |
| 10 | 1,460 | 2,380 | 9,380 | 1,320 | 1,880 | 6,700 | 1,300 | 1,920 | 6,740 |
| 11 | 1,400 | 2,340 | 8,850 | 2,140 | 5,390 | 36,500 | 1,260 | 1,880 | 6,400 |
| 12 | 1,330 | --- | 8,500 | 2,580 | 5,020 | 35,000 | 1,270 | 1,860 | 6,380 |
| 13 | 1,290 | --- | 8,000 | 1,800 | 3,780 | 18,400 | 1,230 | 1,840 | 6,110 |
| 14 | 1,290 | 2,330 | 8,120 | 1,750 | 2,860 | 13,500 | 1,210 | 1,790 | 5,850 |
| 15 | 1,330 | --- | 9,500 | 2,390 | 4,780 | 30,800 | 1,200 | 2,070 | 6,710 |
| 16 | 1,280 | 3,100 | 10,700 | 1,980 | --- | 20,000 | 1,220 | 1,740 | 5,730 |
| 17 | 1,350 | 3,160 | 11,500 | 1,820 | --- | 15,000 | 1,330 | 2,240 | 8,040 |
| 18 | 1,400 | 3,450 | 13,000 | 1,710 | 2,240 | 10,300 | 1,370 | 2,030 | 7,510 |
| 19 | 1,370 | --- | 10,000 | 1,690 | --- | 10,000 | 1,350 | 2,120 | 7,730 |
| 20 | 1,440 | --- | 15,000 | 1,760 | 2,560 | 12,200 | 1,430 | 2,500 | 9,650 |
| 21 | 1,400 | 3,510 | 13,300 | 1,680 | 2,400 | 10,900 | 1,680 | 3,220 | 14,600 |
| 22 | 1,330 | --- | 10,000 | 2,030 | 4,390 | 24,100 | 1,720 | 2,760 | 12,800 |
| 23 | 1,300 | 3,270 | 11,500 | 2,110 | 4,340 | 24,700 | 2,600 | 5,090 | 40,700 |
| 24 | 1,270 | --- | 10,000 | 2,400 | 5,050 | 32,700 | 2,630 | 4,950 | 35,100 |
| 25 | 1,240 | 2,600 | 8,700 | 2,330 | 4,520 | 28,400 | 2,370 | 3,770 | 24,100 |
| 26 | 1,190 | --- | 8,500 | 2,130 | 4,400 | 25,300 | 2,200 | 3,170 | 18,800 |
| 27 | 1,170 | --- | 8,500 | 1,990 | 3,700 | 19,900 | 2,240 | 3,350 | 20,300 |
| 28 | 1,120 | 2,720 | 8,230 | 1,870 | 3,230 | 16,300 | 2,070 | 3,000 | 16,800 |
| 29 | 1,100 | --- | 7,500 | --- | --- | --- | 1,980 | 2,860 | 15,300 |
| 30 | 1,040 | --- | 6,500 | --- | --- | --- | 2,310 | 3,790 | 24,900 |
| 31 | 1,030 | 2,070 | 5,760 | --- | --- | --- | 2,880 | 3,980 | 30,900 |
| TOTAL | 45,060 | --- | 346,280 | 47,103 | --- | 443,290 | 52,980 | --- | 450,790 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 3,040 | 3,660 | 30,000 | 2,340 | 2,390 | 15,100 | 1,620 | 9,590 | 41,900 |
| 2 | 3,050 | 2,870 | 23,600 | 2,470 | --- | 15,000 | 1,570 | 5,670 | 24,000 |
| 3 | 3,190 | 3,040 | 26,200 | 2,760 | 3,590 | 26,800 | 1,390 | 3,880 | 14,600 |
| 4 | 2,910 | 2,430 | 19,100 | 2,430 | 2,400 | 15,700 | 1,530 | 4,790 | 19,800 |
| 5 | 2,680 | 2,160 | 15,600 | 2,230 | 1,860 | 11,200 | 1,480 | 4,030 | 16,100 |
| 6 | 2,650 | 2,070 | 14,800 | 2,020 | 1,790 | 9,760 | 1,520 | 4,490 | 18,400 |
| 7 | 3,030 | 2,820 | 23,100 | 1,990 | 1,930 | 10,400 | 6,720 | 17,100 | 327,000 |
| 8 | 3,140 | 3,000 | 25,400 | 2,040 | --- | 15,000 | 5,820 | 11,400 | 179,000 |
| 9 | 3,160 | --- | 28,000 | 2,020 | --- | 15,000 | 4,130 | 7,910 | 88,200 |
| 10 | 3,280 | 3,160 | 28,000 | 2,040 | 2,070 | 11,400 | 3,280 | 7,960 | 70,500 |
| 11 | 3,410 | 7,390 | 68,000 | 2,020 | --- | 15,000 | 2,900 | 8,910 | 69,800 |
| 12 | 3,080 | 5,710 | 47,500 | 1,850 | --- | 9,500 | 2,660 | 8,690 | 62,400 |
| 13 | 2,650 | 4,450 | 31,800 | 1,800 | --- | 8,500 | 2,550 | 9,100 | 62,700 |
| 14 | 2,640 | 3,570 | 25,400 | 1,960 | 2,510 | 13,300 | 2,310 | 8,410 | 52,500 |
| 15 | 2,680 | 3,580 | 25,900 | 1,790 | 2,060 | 9,960 | 2,250 | 7,350 | 44,700 |
| 16 | 2,700 | 3,960 | 28,900 | 1,960 | --- | 15,000 | 2,040 | 7,070 | 38,900 |
| 17 | 2,280 | 3,650 | 22,500 | 2,360 | 5,610 | 35,700 | 1,910 | 6,560 | 33,800 |
| 18 | 2,100 | 2,970 | 16,800 | 2,360 | 6,010 | 38,300 | 1,760 | 6,380 | 30,300 |
| 19 | 2,040 | 3,180 | 17,500 | 2,210 | 6,380 | 38,100 | 1,680 | 6,070 | 27,500 |
| 20 | 1,920 | 3,160 | 16,400 | 2,040 | 5,720 | 31,500 | 1,610 | 5,910 | 25,700 |
| 21 | 1,830 | 2,770 | 13,700 | 1,860 | 5,000 | 25,100 | 1,630 | 5,120 | 22,500 |
| 22 | 1,830 | 2,060 | 10,200 | 1,960 | 6,000 | 31,800 | 1,560 | 5,450 | 23,000 |
| 23 | 2,590 | 2,020 | 14,100 | 2,070 | 6,940 | 38,800 | 1,510 | 5,790 | 23,600 |
| 24 | 2,360 | 4,130 | 26,300 | 2,230 | 9,650 | 58,100 | 1,480 | 6,840 | 27,300 |
| 25 | 2,360 | 3,650 | 23,300 | 2,400 | 16,900 | 110,000 | 1,430 | 6,940 | 26,800 |
| 26 | 2,220 | 2,680 | 16,100 | 2,210 | 15,300 | 91,300 | 1,360 | 6,540 | 24,000 |
| 27 | 2,530 | 3,350 | 22,900 | 2,060 | 14,400 | 80,100 | 1,260 | 6,550 | 22,300 |
| 28 | 3,080 | 5,070 | 42,200 | 1,970 | 14,300 | 76,100 | 1,190 | 7,370 | 23,700 |
| 29 | 2,700 | 3,360 | 24,500 | 1,970 | 15,600 | 83,000 | 1,200 | 6,590 | 21,400 |
| 30 | 2,450 | 2,400 | 15,900 | 1,930 | 14,400 | 75,000 | 1,150 | 6,220 | 19,300 |
| 31 | --- | --- | --- | 1,630 | 10,800 | 47,500 | --- | --- | --- |
| TOTAL | 79,580 | --- | 743,700 | 64,980 | --- | 1,077,020 | 64,500 | --- | 1,481,700 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 1,100 | 6,210 | 18,400 | 999 | 8,360 | 22,500 | 501 | --- | 4,000 |
| 2 | 1,090 | 6,080 | 17,900 | 887 | 6,920 | 16,600 | 504 | --- | 3,500 |
| 3 | 1,100 | 6,310 | 18,700 | 826 | --- | 11,000 | 476 | 2,280 | 2,930 |
| 4 | 1,080 | 7,220 | 21,100 | 759 | --- | 8,400 | 412 | 2,110 | 2,350 |
| 5 | 1,010 | 5,260 | 14,300 | 688 | 4,020 | 7,470 | 451 | 2,510 | 3,060 |
| 6 | 996 | --- | 20,000 | 643 | 3,800 | 6,600 | 726 | 7,180 | 14,100 |
| 7 | 982 | --- | 25,000 | 640 | 3,540 | 6,120 | 591 | 3,860 | 6,160 |
| 8 | 982 | 11,300 | 30,000 | 730 | 5,690 | 11,200 | 493 | 2,490 | 3,310 |
| 9 | 1,020 | 8,280 | 22,800 | 652 | 4,360 | 7,680 | 516 | 4,500 | 6,270 |
| 10 | 982 | --- | 25,000 | 644 | 4,990 | 8,680 | 867 | 5,560 | 13,000 |
| 11 | 942 | 8,850 | 22,500 | 634 | 4,490 | 7,690 | 678 | 1,970 | 3,610 |
| 12 | 942 | --- | 20,000 | 601 | 3,550 | 5,760 | 491 | 1,730 | 2,290 |
| 13 | 923 | --- | 20,000 | 629 | 4,660 | 7,910 | 558 | 2,360 | 3,560 |
| 14 | 867 | --- | 15,000 | 628 | 4,540 | 7,700 | 635 | 2,070 | 3,550 |
| 15 | 847 | 6,440 | 14,700 | 627 | 5,340 | 9,040 | 702 | 1,750 | 3,320 |
| 16 | 853 | --- | 15,000 | 616 | 4,690 | 7,800 | 671 | 1,900 | 3,440 |
| 17 | 873 | 5,420 | 12,800 | 588 | 4,100 | 6,510 | 834 | 3,960 | 8,920 |
| 18 | 866 | --- | 15,000 | 559 | --- | 5,500 | 854 | 2,380 | 5,490 |
| 19 | 862 | 5,830 | 13,600 | 560 | 3,150 | 4,760 | 775 | 1,940 | 4,060 |
| 20 | 821 | --- | 15,000 | 559 | --- | 5,000 | 718 | 1,990 | 3,860 |
| 21 | 832 | --- | 15,000 | 569 | 3,260 | 5,010 | 682 | 1,740 | 3,200 |
| 22 | 857 | 5,750 | 13,300 | 564 | 2,860 | 4,360 | 684 | 1,850 | 3,420 |
| 23 | 854 | --- | 13,000 | 544 | 2,350 | 3,450 | 660 | 1,980 | 3,530 |
| 24 | 844 | --- | 12,000 | 530 | 2,250 | 3,220 | 650 | 2,160 | 3,790 |
| 25 | 783 | --- | 11,000 | 507 | 2,360 | 3,230 | 626 | 2,090 | 3,530 |
| 26 | 765 | 4,830 | 9,980 | 486 | 1,810 | 2,380 | 583 | 1,840 | 2,900 |
| 27 | 732 | --- | 7,500 | 506 | --- | 3,000 | 560 | 1,630 | 2,460 |
| 28 | 737 | --- | 7,000 | 506 | 2,830 | 3,870 | 545 | 1,970 | 2,900 |
| 29 | 696 | 3,360 | 6,310 | 496 | --- | 4,000 | 530 | 1,630 | 2,330 |
| 30 | 705 | --- | 9,000 | 502 | 3,360 | 4,550 | 519 | 1,580 | 2,210 |
| 31 | 785 | 5,140 | 10,900 | 524 | --- | 4,500 | --- | --- | --- |
| TOTAL | 27,728 | --- | 491,790 | 19,203 | --- | 215,490 | 18,492 | --- | 131,050 |
| YEAR | 644,790 | | 9,373,687 | TONS | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 535 | 1,460 | 2,110 | 1,960 | 4,970 | 26,300 | 1,090 | --- | 3,000 |
| 2 | 540 | 1,680 | 2,450 | 2,080 | 3,220 | 18,100 | 1,150 | --- | 3,500 |
| 3 | 543 | 1,840 | 2,700 | 2,140 | 4,080 | 23,600 | 2,040 | 3,120 | 17,200 |
| 4 | 526 | 2,070 | 2,940 | 3,940 | 7,110 | 75,600 | 2,050 | 1,780 | 9,850 |
| 5 | 510 | 3,140 | 4,320 | 3,720 | 4,850 | 48,700 | 2,200 | 1,890 | 11,200 |
| 6 | 517 | 2,110 | 2,950 | 5,560 | 5,830 | 87,500 | 3,620 | 3,760 | 36,800 |
| 7 | 571 | 2,300 | 3,550 | 6,200 | 6,250 | 105,000 | 4,500 | 2,930 | 35,600 |
| 8 | 533 | 1,940 | 2,790 | 5,470 | 6,200 | 91,600 | 4,030 | 2,140 | 23,300 |
| 9 | 509 | 2,170 | 2,980 | 4,290 | 5,210 | 60,300 | 3,130 | 2,000 | 16,900 |
| 10 | 515 | 1,820 | 2,530 | 3,420 | 5,910 | 54,600 | 2,450 | 2,220 | 14,700 |
| 11 | 575 | 3,380 | 5,250 | 3,050 | 4,520 | 37,200 | 2,120 | 2,540 | 14,500 |
| 12 | 625 | 2,470 | 4,170 | 2,680 | 3,840 | 27,800 | 1,870 | 2,010 | 10,100 |
| 13 | 598 | 1,620 | 2,620 | 2,210 | 3,690 | 22,000 | 1,760 | 2,270 | 10,800 |
| 14 | 594 | 2,210 | 3,540 | 2,010 | 3,010 | 16,300 | 1,630 | 1,550 | 6,820 |
| 15 | 653 | --- | 6,000 | 2,180 | 3,120 | 18,400 | 1,590 | 1,330 | 5,710 |
| 16 | 702 | 4,500 | 8,530 | 2,770 | 4,870 | 36,400 | 1,330 | 910 | 3,270 |
| 17 | 762 | 2,650 | 5,450 | 2,520 | 3,610 | 24,600 | 1,240 | --- | 3,000 |
| 18 | 690 | 1,960 | 3,650 | 2,280 | 2,970 | 18,300 | 1,180 | 1,040 | 3,310 |
| 19 | 787 | 2,840 | 6,030 | 2,120 | 2,460 | 14,100 | 1,140 | --- | 3,000 |
| 20 | 1,450 | 7,170 | 28,100 | 2,050 | 2,030 | 11,200 | 1,120 | --- | 3,000 |
| 21 | 1,860 | 5,560 | 27,900 | 2,010 | 1,610 | 8,740 | 1,110 | --- | 2,500 |
| 22 | 2,590 | 7,830 | 54,600 | 1,910 | --- | 8,000 | 1,100 | --- | 2,500 |
| 23 | 2,570 | 5,000 | 34,700 | 1,780 | --- | 7,000 | 1,110 | 664 | 1,990 |
| 24 | 3,170 | 6,250 | 57,700 | 1,670 | --- | 6,000 | 1,120 | --- | 2,000 |
| 25 | 5,510 | 9,580 | 143,000 | 1,540 | --- | 5,000 | 1,150 | --- | 2,000 |
| 26 | 3,920 | 5,690 | 60,200 | 1,390 | 1,140 | 4,280 | 1,130 | 624 | 1,900 |
| 27 | 3,390 | 4,830 | 44,200 | 1,310 | 1,460 | 5,160 | 1,090 | --- | 1,500 |
| 28 | 4,250 | 6,400 | 73,400 | 1,240 | 876 | 2,930 | 1,020 | --- | 1,500 |
| 29 | 2,930 | 5,910 | 46,800 | 1,160 | 1,250 | 3,920 | 948 | --- | 1,500 |
| 30 | 2,320 | 5,320 | 33,300 | 1,120 | --- | 3,500 | 919 | 451 | 1,120 |
| 31 | 2,120 | 4,010 | 23,000 | --- | --- | --- | 903 | --- | 1,000 |
| TOTAL | 47,365 | --- | 701,460 | 77,780 | --- | 872,130 | 52,840 | --- | 255,070 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 1,240 | 1,050 | 3,800 | 2,990 | --- | 20,000 | 3,310 | 4,770 | 42,600 |
| 2 | 1,290 | --- | 3,000 | 2,740 | --- | 15,000 | 2,820 | 3,170 | 24,100 |
| 3 | 1,950 | 1,270 | 6,690 | 2,670 | 2,060 | 14,900 | 2,410 | 3,180 | 20,700 |
| 4 | 1,480 | 894 | 3,570 | 2,490 | --- | 15,000 | 2,230 | --- | 20,000 |
| 5 | 1,570 | 1,370 | 7,540 | 2,590 | 2,500 | 17,500 | 2,210 | 3,670 | 21,900 |
| 6 | 2,840 | 3,720 | 30,400 | 2,260 | 2,260 | 13,800 | 2,200 | 3,200 | 19,000 |
| 7 | 2,260 | 1,680 | 10,300 | 2,040 | 2,180 | 12,000 | 3,270 | 5,340 | 47,100 |
| 8 | 2,230 | 1,670 | 10,100 | 1,850 | 1,840 | 9,190 | 4,080 | 5,140 | 56,600 |
| 9 | 2,500 | 1,810 | 12,200 | 1,730 | 1,630 | 7,610 | 4,050 | 4,780 | 52,300 |
| 10 | 2,930 | 1,790 | 14,200 | 1,630 | 1,550 | 6,820 | 3,260 | 3,930 | 34,600 |
| 11 | 2,820 | 1,210 | 9,210 | 1,530 | 1,410 | 5,820 | 3,350 | 4,660 | 42,100 |
| 12 | 2,430 | 1,050 | 6,890 | 1,440 | 1,590 | 6,180 | 3,750 | 5,160 | 52,200 |
| 13 | 2,200 | 1,060 | 6,300 | 1,430 | 1,630 | 6,290 | 3,490 | 4,700 | 44,300 |
| 14 | 2,020 | 1,110 | 6,050 | 1,520 | 1,600 | 6,570 | 3,170 | 4,180 | 35,800 |
| 15 | 1,930 | 1,020 | 5,320 | 3,200 | 4,150 | 35,900 | 2,750 | 3,130 | 23,200 |
| 16 | 2,300 | 1,460 | 9,070 | 6,180 | 6,390 | 107,000 | 2,450 | 2,900 | 19,200 |
| 17 | 2,590 | 1,980 | 13,800 | 4,620 | 3,840 | 47,900 | 2,310 | 2,870 | 17,900 |
| 18 | 5,470 | 6,440 | 101,000 | 3,600 | 2,580 | 25,100 | 2,280 | 3,400 | 20,900 |
| 19 | 8,540 | 9,410 | 217,000 | 2,960 | 1,800 | 14,400 | 2,290 | 2,950 | 18,200 |
| 20 | 5,700 | 5,800 | 89,300 | 2,510 | 1,450 | 9,830 | 2,200 | 2,580 | 15,300 |
| 21 | 4,220 | 4,700 | 53,600 | 2,230 | 1,480 | 8,910 | 2,140 | 2,740 | 15,800 |
| 22 | 3,990 | 4,410 | 47,500 | 2,870 | 3,450 | 26,700 | 2,000 | 2,000 | 10,800 |
| 23 | 4,590 | 6,850 | 84,900 | 14,800 | 15,000 | 816,000 | 2,060 | 2,130 | 11,800 |
| 24 | 3,830 | 4,810 | 49,700 | 18,200 | 17,000 | 873,000 | 3,460 | 4,610 | 43,100 |
| 25 | 3,150 | 4,010 | 34,100 | 10,300 | 12,700 | 353,000 | 2,840 | 3,290 | 25,200 |
| 26 | 2,720 | 2,950 | 21,700 | 7,420 | 9,200 | 184,000 | 2,820 | 2,660 | 20,300 |
| 27 | 2,600 | 2,460 | 17,300 | 5,290 | 6,760 | 96,600 | 2,500 | 2,310 | 15,600 |
| 28 | 2,440 | 2,630 | 17,300 | 4,150 | 6,410 | 71,800 | 2,300 | 2,470 | 15,300 |
| 29 | 2,360 | 3,020 | 19,200 | --- | --- | --- | 2,130 | 2,000 | 11,500 |
| 30 | 3,110 | --- | 30,000 | --- | --- | --- | 2,380 | --- | 15,000 |
| 31 | 2,950 | 2,600 | 20,700 | --- | --- | --- | 2,250 | 2,550 | 15,500 |
| TOTAL | 92,250 | --- | 961,740 | 117,240 | --- | 2,826,820 | 84,760 | --- | 827,900 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 2,100 | --- | 15,000 | 2,030 | 2,670 | 14,600 | 1,630 | 3,160 | 13,900 |
| 2 | 2,090 | 3,340 | 18,800 | 2,220 | 2,930 | 17,600 | 1,500 | 2,760 | 11,200 |
| 3 | 1,890 | --- | 15,000 | 2,210 | 2,780 | 16,600 | 1,360 | 2,470 | 9,070 |
| 4 | 1,760 | 2,140 | 10,200 | 2,120 | 2,880 | 16,500 | 1,270 | 2,330 | 7,990 |
| 5 | 1,710 | --- | 9,500 | 2,500 | 3,560 | 24,000 | 1,190 | 2,240 | 7,200 |
| 6 | 1,630 | --- | 9,000 | 2,330 | 2,830 | 17,800 | 1,130 | 2,150 | 6,560 |
| 7 | 1,580 | 2,050 | 8,750 | 2,170 | 2,420 | 14,200 | 1,160 | 2,510 | 7,860 |
| 8 | 1,530 | --- | 8,500 | 2,120 | 2,360 | 13,500 | 1,080 | 1,830 | 5,340 |
| 9 | 1,520 | 1,890 | 7,760 | 2,010 | 2,340 | 12,700 | 1,000 | 1,540 | 4,160 |
| 10 | 1,440 | 1,750 | 6,800 | 2,150 | 2,780 | 16,100 | 964 | 2,010 | 5,230 |
| 11 | 1,430 | 2,090 | 8,070 | 2,280 | 2,970 | 18,300 | 945 | 2,130 | 5,430 |
| 12 | 1,550 | 2,730 | 11,400 | 2,230 | 2,430 | 14,600 | 924 | 2,100 | 5,240 |
| 13 | 1,460 | 2,040 | 8,040 | 3,060 | 5,020 | 41,500 | 879 | 1,950 | 4,630 |
| 14 | 1,340 | 1,670 | 6,040 | 3,030 | 3,860 | 31,600 | 871 | 2,060 | 4,840 |
| 15 | 1,450 | 2,520 | 9,870 | 2,620 | 3,720 | 26,300 | 861 | 1,470 | 3,420 |
| 16 | 1,640 | 3,530 | 15,600 | 2,310 | 3,040 | 19,000 | 804 | 1,480 | 3,210 |
| 17 | 1,830 | 3,540 | 17,500 | 2,120 | 2,460 | 14,100 | 810 | 1,390 | 3,040 |
| 18 | 1,940 | 3,690 | 19,300 | 2,030 | 2,480 | 13,600 | 952 | 2,580 | 6,630 |
| 19 | 1,740 | 2,690 | 12,600 | 2,000 | 2,340 | 12,600 | 981 | 3,090 | 8,180 |
| 20 | 1,650 | 2,230 | 9,930 | 2,530 | 3,590 | 24,500 | 828 | 1,220 | 2,730 |
| 21 | 1,630 | 2,410 | 10,600 | 2,440 | 3,080 | 20,300 | 815 | 1,100 | 2,420 |
| 22 | 1,670 | 2,700 | 12,200 | 2,370 | 2,730 | 17,500 | 772 | 1,470 | 3,060 |
| 23 | 1,590 | 2,550 | 10,900 | 2,100 | 2,550 | 14,500 | 741 | 1,440 | 2,880 |
| 24 | 1,470 | 2,270 | 9,010 | 1,950 | 2,230 | 11,700 | 720 | --- | 2,500 |
| 25 | 1,630 | 2,970 | 13,100 | 1,940 | 2,100 | 11,000 | 702 | --- | 2,000 |
| 26 | 1,710 | 2,970 | 13,700 | 1,990 | 2,970 | 16,000 | 683 | --- | 2,000 |
| 27 | 1,980 | 3,630 | 19,400 | 1,940 | 2,720 | 14,200 | 658 | 795 | 1,410 |
| 28 | 2,360 | 4,560 | 29,100 | 1,810 | 2,490 | 12,200 | 649 | --- | 1,500 |
| 29 | 2,370 | 3,340 | 21,400 | 1,730 | 2,480 | 11,600 | 664 | --- | 2,000 |
| 30 | 2,180 | 2,940 | 17,300 | 1,730 | 2,710 | 12,700 | 648 | 1,240 | 2,170 |
| 31 | --- | --- | --- | 1,710 | 3,210 | 14,800 | --- | --- | --- |
| TOTAL | 51,870 | --- | 384,370 | 67,780 | --- | 536,200 | 28,191 | --- | 147,800 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 623 | --- | 2,000 | 457 | 1,340 | 1,650 | 358 | 215 | 208 |
| 2 | 627 | 1,020 | 1,730 | 452 | 992 | 1,210 | 347 | 235 | 220 |
| 3 | 644 | 726 | 1,260 | 439 | 830 | 984 | 346 | 234 | 219 |
| 4 | 720 | --- | 2,500 | 428 | 828 | 957 | 336 | 262 | 238 |
| 5 | 649 | --- | 2,500 | 428 | 940 | 1,090 | 323 | 288 | 251 |
| 6 | 612 | --- | 2,000 | 428 | 1,100 | 1,270 | 320 | 180 | 156 |
| 7 | 595 | --- | 2,000 | 422 | 1,120 | 1,280 | 308 | 182 | 151 |
| 8 | 595 | 996 | 1,600 | 416 | 1,240 | 1,390 | 321 | 259 | 224 |
| 9 | 591 | 1,030 | 1,640 | 407 | 1,270 | 1,400 | 417 | 1,050 | 1,180 |
| 10 | 675 | 1,820 | 3,500 | 401 | 928 | 1,000 | 357 | 410 | 395 |
| 11 | 752 | 2,060 | 4,180 | 408 | 1,170 | 1,290 | 338 | 419 | 382 |
| 12 | 619 | 1,290 | 2,160 | 411 | 1,310 | 1,450 | 336 | 227 | 206 |
| 13 | 581 | 1,380 | 2,160 | 400 | 951 | 1,030 | 320 | 176 | 152 |
| 14 | 569 | 1,340 | 2,060 | 404 | 1,070 | 1,170 | 319 | 174 | 150 |
| 15 | 580 | 974 | 1,530 | 396 | 769 | 822 | 324 | 193 | 169 |
| 16 | 789 | 2,460 | 5,240 | 382 | 664 | 685 | 362 | 282 | 276 |
| 17 | 832 | 2,330 | 5,230 | 385 | 636 | 661 | 349 | 209 | 197 |
| 18 | 687 | 1,900 | 3,520 | 376 | 492 | 499 | 397 | 477 | 511 |
| 19 | 636 | 1,110 | 1,910 | 382 | 478 | 493 | 362 | 267 | 261 |
| 20 | 627 | --- | 1,500 | 381 | 539 | 554 | 364 | 273 | 268 |
| 21 | 613 | --- | 1,500 | 377 | 515 | 524 | 345 | 204 | 190 |
| 22 | 592 | 965 | 1,540 | 371 | 350 | 351 | 344 | 173 | 161 |
| 23 | 582 | 1,180 | 1,850 | 365 | 295 | 291 | 445 | 395 | 618 |
| 24 | 573 | 1,050 | 1,620 | 359 | 291 | 282 | 847 | 1,940 | 4,440 |
| 25 | 553 | 886 | 1,320 | 357 | 215 | 207 | 747 | 808 | 1,630 |
| 26 | 528 | 908 | 1,290 | 358 | 175 | 169 | 875 | 1,260 | 2,980 |
| 27 | 521 | 1,270 | 1,790 | 360 | 187 | 182 | 704 | 578 | 1,100 |
| 28 | 508 | 1,390 | 1,910 | 352 | 240 | 228 | 743 | 684 | 1,370 |
| 29 | 491 | 980 | 1,300 | 357 | 262 | 253 | 922 | --- | 4,000 |
| 30 | 479 | 1,310 | 1,690 | 378 | 441 | 450 | 942 | --- | 3,000 |
| 31 | 472 | 944 | 1,200 | 379 | 468 | 479 | --- | --- | --- |
| TOTAL | 18,915 | --- | 67,230 | 12,216 | --- | 24,301 | 13,818 | --- | 25,303 |
| YEAR | 665,025 | | 7,630,324 | TONS | | | | | |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 788 | 680 | 1,450 | 1,520 | 4,200 | 17,200 | 3,100 | 3,090 | 25,900 |
| 2 | 706 | 626 | 1,190 | 1,280 | 3,180 | 11,000 | 2,620 | 2,660 | 18,800 |
| 3 | 657 | 557 | 988 | 1,150 | 2,400 | 7,450 | 2,320 | --- | 16,000 |
| 4 | 608 | 425 | 698 | 1,050 | 2,030 | 5,760 | 2,120 | 2,310 | 13,200 |
| 5 | 573 | 411 | 636 | 1,020 | 2,330 | 6,420 | 2,390 | 3,120 | 20,100 |
| 6 | 546 | 371 | 547 | 1,050 | 2,770 | 7,850 | 2,260 | 2,370 | 14,500 |
| 7 | 514 | --- | 530 | 1,700 | 6,430 | 32,000 | 2,040 | 2,010 | 11,100 |
| 8 | 494 | 391 | 522 | 1,450 | 3,070 | 12,000 | 1,870 | --- | 11,000 |
| 9 | 490 | 271 | 359 | 1,340 | 2,600 | 9,410 | 1,780 | 2,920 | 14,000 |
| 10 | 485 | 278 | 364 | 1,220 | 2,250 | 7,410 | 1,690 | 1,920 | 8,760 |
| 11 | 460 | 218 | 271 | 1,200 | 2,110 | 6,840 | 1,650 | 1,710 | 7,620 |
| 12 | 439 | 243 | 288 | 1,340 | 3,050 | 11,000 | 1,700 | 1,460 | 6,700 |
| 13 | 424 | 235 | 269 | 1,250 | 2,280 | 7,690 | 1,770 | 1,660 | 7,930 |
| 14 | 417 | 159 | 179 | 1,220 | 2,360 | 7,770 | 2,230 | 3,270 | 19,700 |
| 15 | 419 | 209 | 236 | 1,130 | 1,840 | 5,610 | 2,160 | 2,340 | 13,600 |
| 16 | 397 | 197 | 211 | 1,240 | 2,410 | 8,070 | 1,970 | 2,060 | 11,000 |
| 17 | 389 | 160 | 168 | 1,940 | 4,680 | 24,500 | 1,880 | 2,100 | 10,700 |
| 18 | 386 | 157 | 164 | 2,060 | 4,170 | 26,600 | 1,770 | 1,590 | 7,600 |
| 19 | 367 | 191 | 189 | 2,950 | 4,620 | 36,800 | 1,720 | 1,580 | 7,340 |
| 20 | 363 | 172 | 169 | 5,060 | 8,540 | 140,000 | 1,610 | 1,470 | 6,390 |
| 21 | 345 | 140 | 130 | 6,830 | 7,580 | 140,000 | 1,650 | 1,540 | 6,860 |
| 22 | 343 | 146 | 135 | 9,880 | 8,590 | 243,000 | 2,040 | 3,250 | 21,800 |
| 23 | 353 | 87 | 83 | 10,400 | 7,950 | 263,000 | 3,910 | 6,610 | 69,800 |
| 24 | 366 | 67 | 66 | 20,100 | 13,900 | 754,000 | 3,070 | 3,240 | 26,900 |
| 25 | 452 | 714 | 940 | 11,500 | 7,520 | 233,000 | 2,710 | 2,660 | 19,500 |
| 26 | 889 | 16,000 | 38,400 | 7,930 | 5,020 | 107,000 | 3,850 | 4,850 | 53,200 |
| 27 | 1,330 | 16,700 | 60,000 | 7,340 | 5,070 | 100,000 | 2,910 | 2,550 | 20,000 |
| 28 | 1,110 | 5,330 | 16,000 | 6,180 | 4,390 | 140,000 | 2,650 | 2,500 | 17,900 |
| 29 | 843 | 3,130 | 7,120 | 4,890 | 3,970 | 52,400 | 4,380 | 4,540 | 57,700 |
| 30 | 1,410 | 8,930 | 38,200 | 3,710 | 3,280 | 243,000 | 4,650 | 3,290 | 41,300 |
| 31 | 1,910 | 7,470 | 38,500 | --- | --- | --- | 3,840 | 2,440 | 25,300 |
| TOTAL | 19,273 | --- | 209,002 | 120,930 | --- | 2,666,780 | 76,310 | --- | 612,200 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 4,010 | 3,110 | 33,700 | 17,000 | 15,900 | 793,000 | 2,230 | 3,840 | 23,100 |
| 2 | 4,250 | 2,340 | 26,900 | 10,100 | 7,840 | 214,000 | 3,890 | 5,730 | 60,200 |
| 3 | 5,100 | 3,450 | 47,500 | 7,040 | 5,680 | 108,000 | 10,000 | 11,500 | 368,000 |
| 4 | 4,750 | 2,790 | 35,800 | 5,130 | 4,760 | 65,900 | 10,700 | 12,400 | 358,000 |
| 5 | 3,710 | 2,550 | 25,500 | 4,150 | 4,200 | 47,100 | 7,000 | 7,600 | 144,000 |
| 6 | 3,190 | 1,980 | 17,100 | 3,500 | 3,400 | 32,100 | 5,980 | 8,100 | 131,000 |
| 7 | 2,850 | 1,740 | 13,400 | 2,960 | 3,760 | 30,000 | 4,570 | 6,310 | 77,900 |
| 8 | 2,550 | --- | 10,000 | 2,580 | 3,200 | 22,300 | 3,780 | 5,420 | 55,300 |
| 9 | 2,300 | 1,260 | 7,820 | 2,320 | --- | 19,000 | 3,450 | 6,810 | 63,400 |
| 10 | 2,190 | --- | 6,900 | 2,200 | --- | 17,000 | 4,110 | 8,460 | 93,900 |
| 11 | 2,160 | --- | 6,400 | 2,210 | 3,130 | 18,700 | 3,620 | 5,390 | 52,700 |
| 12 | 3,140 | 2,060 | 17,500 | 2,070 | 3,170 | 17,700 | 5,010 | 7,510 | 102,000 |
| 13 | 3,140 | --- | 15,000 | 2,350 | 4,650 | 29,500 | 5,710 | 6,140 | 94,700 |
| 14 | 3,290 | 2,220 | 19,700 | 2,850 | 5,100 | 39,200 | 5,940 | 5,450 | 87,400 |
| 15 | 2,710 | 1,740 | 12,700 | 2,410 | 3,600 | 23,400 | 4,610 | 3,860 | 48,000 |
| 16 | 2,450 | 1,760 | 11,600 | 2,630 | 4,250 | 30,200 | 3,900 | 3,960 | 41,700 |
| 17 | 2,280 | 1,850 | 11,400 | 2,550 | 3,740 | 25,700 | 3,760 | 4,820 | 48,900 |
| 18 | 2,170 | 1,510 | 8,850 | 2,260 | 2,960 | 18,100 | 3,420 | 4,330 | 40,000 |
| 19 | 2,030 | 1,490 | 8,170 | 2,110 | 2,780 | 15,800 | 3,090 | 3,850 | 32,100 |
| 20 | 1,860 | 2,040 | 10,200 | 1,940 | 2,530 | 13,300 | 2,970 | 3,210 | 25,700 |
| 21 | 1,780 | 2,890 | 13,900 | 1,820 | 2,510 | 12,300 | 2,570 | 2,890 | 20,100 |
| 22 | 1,740 | 2,290 | 10,800 | 1,880 | 2,610 | 13,200 | 2,290 | 2,560 | 15,800 |
| 23 | 1,820 | 2,180 | 10,700 | 1,920 | 2,560 | 13,300 | 2,180 | 2,800 | 16,500 |
| 24 | 2,220 | --- | 18,000 | 1,740 | 2,120 | 9,960 | 2,010 | 2,570 | 13,900 |
| 25 | 2,330 | --- | 19,000 | 1,630 | 1,770 | 7,790 | 1,880 | 2,330 | 11,800 |
| 26 | 2,650 | --- | 24,000 | 1,560 | 1,570 | 6,610 | 1,840 | 2,480 | 12,300 |
| 27 | 3,790 | 3,970 | 40,600 | 1,540 | 1,480 | 6,150 | 1,710 | 2,240 | 10,300 |
| 28 | 4,610 | 4,190 | 52,200 | 1,530 | 1,460 | 6,030 | 1,610 | 2,220 | 9,650 |
| 29 | 4,020 | 2,800 | 30,400 | --- | --- | --- | 1,520 | 2,080 | 8,540 |
| 30 | 3,930 | 2,800 | 29,700 | --- | --- | --- | 1,440 | 1,910 | 7,430 |
| 31 | 5,260 | 3,780 | 63,500 | --- | --- | --- | 1,400 | 1,780 | 6,730 |
| TOTAL | 94,280 | --- | 658,940 | 93,980 | --- | 1,655,340 | 118,190 | --- | 2,081,050 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 1,350 | 1,670 | 6,090 | 2,070 | 3,160 | 17,700 | 1,590 | 2,640 | 11,300 |
| 2 | 1,380 | 1,810 | 6,740 | 2,140 | 3,240 | 18,700 | 1,270 | 2,230 | 7,650 |
| 3 | 1,560 | 2,400 | 10,100 | 2,020 | 2,740 | 14,900 | 1,120 | 2,270 | 6,860 |
| 4 | 1,620 | --- | 12,000 | 1,770 | 2,220 | 10,600 | 1,090 | 2,220 | 6,530 |
| 5 | 1,530 | --- | 8,500 | 1,640 | 2,110 | 9,340 | 1,050 | 1,990 | 5,640 |
| 6 | 1,520 | 1,940 | 7,960 | 1,650 | 2,090 | 9,310 | 1,020 | 1,820 | 5,010 |
| 7 | 1,510 | 1,970 | 8,030 | 1,830 | 3,160 | 15,600 | 995 | 1,810 | 4,860 |
| 8 | 1,910 | 3,110 | 16,000 | 1,880 | 3,870 | 19,600 | 970 | 1,650 | 4,320 |
| 9 | 1,730 | 2,370 | 11,100 | 1,830 | 3,760 | 18,600 | 942 | 1,690 | 4,300 |
| 10 | 1,840 | 3,030 | 15,100 | 1,710 | 3,730 | 17,200 | 898 | 1,920 | 4,660 |
| 11 | 2,140 | 3,280 | 19,000 | 1,540 | 3,120 | 13,000 | 865 | 1,680 | 3,920 |
| 12 | 2,160 | 2,870 | 16,700 | 2,240 | 5,680 | 34,400 | 837 | 1,830 | 4,140 |
| 13 | 2,060 | 2,440 | 13,600 | 1,920 | 3,770 | 19,500 | 830 | 1,910 | 4,280 |
| 14 | 2,000 | 2,540 | 13,700 | 1,690 | 3,700 | 16,900 | 820 | 2,270 | 5,030 |
| 15 | 2,040 | 2,400 | 13,200 | 1,620 | 3,750 | 16,400 | 799 | 1,730 | 3,730 |
| 16 | 1,990 | 2,360 | 12,700 | 1,410 | 2,900 | 11,000 | 760 | 1,610 | 3,300 |
| 17 | 2,290 | 3,470 | 21,500 | 1,280 | 2,700 | 9,330 | 743 | 1,100 | 2,210 |
| 18 | 2,310 | 2,950 | 18,400 | 1,200 | 2,500 | 8,100 | 718 | --- | 1,900 |
| 19 | 2,160 | 2,530 | 14,800 | 1,160 | 2,320 | 7,270 | 705 | --- | 2,100 |
| 20 | 2,020 | 2,300 | 12,500 | 1,100 | 2,370 | 7,040 | 698 | --- | 2,900 |
| 21 | 1,850 | 2,050 | 10,200 | 1,050 | 1,900 | 5,390 | 752 | 2,370 | 4,810 |
| 22 | 1,750 | 1,860 | 8,790 | 1,000 | 2,040 | 5,510 | 753 | 1,530 | 3,110 |
| 23 | 1,730 | 1,870 | 8,730 | 968 | 2,050 | 5,360 | 689 | 1,150 | 2,140 |
| 24 | 1,700 | 1,720 | 7,890 | 950 | 2,060 | 5,280 | 663 | --- | 2,000 |
| 25 | 1,650 | 1,650 | 7,350 | 899 | --- | 4,500 | 656 | --- | 2,000 |
| 26 | 1,590 | 1,730 | 7,430 | 889 | --- | 4,400 | 642 | --- | 1,900 |
| 27 | 1,620 | 1,860 | 8,140 | 863 | --- | 4,200 | 640 | --- | 2,000 |
| 28 | 1,870 | 2,540 | 12,800 | 877 | 1,760 | 4,170 | 621 | --- | 1,800 |
| 29 | 1,950 | 2,590 | 13,600 | 871 | 1,520 | 3,570 | 622 | --- | 1,800 |
| 30 | 1,840 | 2,770 | 13,800 | 1,130 | 2,990 | 10,600 | 612 | --- | 1,800 |
| 31 | --- | --- | --- | 1,880 | 4,690 | 23,800 | --- | --- | --- |
| TOTAL | 54,670 | --- | 356,450 | 45,077 | --- | 371,270 | 25,370 | --- | 118,000 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 599 | --- | 1,800 | 418 | 213 | 240 | 313 | 178 | 150 |
| 2 | 573 | --- | 1,600 | 407 | 247 | 271 | 310 | 162 | 136 |
| 3 | 576 | --- | 1,700 | 406 | 148 | 162 | 316 | 213 | 182 |
| 4 | 548 | --- | 1,500 | 396 | 147 | 157 | 306 | 118 | 97 |
| 5 | 586 | --- | 1,800 | 395 | 140 | 149 | 304 | 109 | 89 |
| 6 | 559 | --- | 1,600 | 397 | 142 | 152 | 306 | 106 | 88 |
| 7 | 527 | --- | 1,400 | 391 | 157 | 166 | 306 | 116 | 96 |
| 8 | 514 | --- | 1,300 | 386 | 191 | 199 | 307 | 90 | 75 |
| 9 | 503 | --- | 1,200 | 380 | 187 | 192 | 308 | 95 | 79 |
| 10 | 519 | 973 | 1,360 | 375 | 174 | 176 | 305 | 98 | 81 |
| 11 | 489 | 569 | 751 | 377 | 182 | 185 | 308 | 129 | 107 |
| 12 | 470 | 741 | 940 | 367 | 229 | 227 | 322 | 145 | 126 |
| 13 | 467 | 692 | 873 | 395 | 370 | 395 | 323 | 142 | 124 |
| 14 | 463 | 422 | 528 | 461 | 525 | 653 | 330 | 170 | 151 |
| 15 | 455 | 510 | 627 | 430 | 453 | 526 | 437 | 758 | 894 |
| 16 | 449 | 352 | 427 | 399 | 279 | 301 | 363 | 394 | 386 |
| 17 | 459 | 391 | 485 | 383 | 209 | 216 | 337 | 286 | 260 |
| 18 | 521 | 712 | 1,000 | 376 | 361 | 366 | 333 | 150 | 135 |
| 19 | 540 | 768 | 1,120 | 366 | 235 | 232 | 327 | 107 | 94 |
| 20 | 496 | 470 | 629 | 358 | 210 | 203 | 319 | 101 | 87 |
| 21 | 485 | 378 | 495 | 355 | 190 | 182 | 315 | 88 | 75 |
| 22 | 473 | 382 | 488 | 351 | 129 | 122 | 316 | 90 | 77 |
| 23 | 477 | 280 | 361 | 349 | 101 | 95 | 309 | 112 | 93 |
| 24 | 507 | 870 | 1,190 | 346 | 160 | 149 | 307 | 122 | 101 |
| 25 | 477 | 532 | 685 | 341 | 366 | 337 | 314 | 142 | 120 |
| 26 | 466 | 384 | 483 | 335 | 183 | 166 | 352 | 243 | 231 |
| 27 | 462 | 434 | 541 | 334 | 191 | 172 | 334 | 165 | 149 |
| 28 | 448 | 340 | 411 | 328 | 296 | 262 | 312 | 101 | 85 |
| 29 | 430 | 321 | 373 | 321 | 335 | 290 | 307 | 84 | 70 |
| 30 | 422 | 339 | 386 | 319 | 181 | 156 | 303 | 76 | 62 |
| 31 | 418 | 378 | 427 | 317 | 137 | 117 | --- | --- | --- |
| TOTAL | 15,378 | --- | 28,480 | 11,559 | --- | 7,216 | 9,649 | --- | 4,500 |
| YEAR | 684,666 | | 8,769,228 | TONS | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | |
| 05... | 1225 | 10.0 | 699 | 20.0 | 5,320 | 10,000 | -- | -- | -- |
| 14... | 1315 | 11.0 | 652 | 20.0 | 5,670 | 9,980 | -- | -- | -- |
| 28... | 1420 | 11.0 | 679 | 20.0 | 4,910 | 9,000 | -- | -- | -- |
| 31... | 1205 | 11.0 | 1,140 | 20.0 | 12,700 | 39,100 | -- | -- | -- |
| NOV | | | | | | | | | |
| 03... | 1405 | 12.0 | 7,890 | 20.0 | 128,000 | 2,730,000 | 14 | 16 | 24 |
| 03... | 1530 | 12.0 | 7,870 | 20.0 | 95,000 | 2,020,000 | 11 | 13 | 23 |
| 03... | 1945 | 12.0 | 8,790 | 20.0 | 74,400 | 1,770,000 | 10 | 15 | 20 |
| 03... | 2250 | 12.0 | 8,560 | 20.0 | 67,000 | 1,550,000 | 9 | 10 | 16 |
| 04... | 0935 | 10.0 | 6,440 | 20.0 | 40,900 | 711,000 | 6 | 7 | 11 |
| 07... | 1235 | 9.0 | 4,020 | 20.0 | 18,000 | 195,000 | -- | -- | -- |
| 14... | 1120 | 8.0 | 5,940 | 20.0 | 19,500 | 313,000 | -- | -- | -- |
| 14... | 1340 | 8.0 | 6,190 | 20.0 | 20,000 | 334,000 | -- | -- | -- |
| 17... | 0920 | 8.0 | 10,500 | 20.0 | 28,600 | 811,000 | 7 | 9 | 13 |
| 17... | 1110 | 8.0 | 10,000 | 20.0 | 25,200 | 680,000 | 8 | 9 | 10 |
| 17... | 1315 | 8.0 | 9,830 | 20.0 | 24,800 | 658,000 | 6 | 7 | 9 |
| 18... | 0945 | 7.0 | 11,700 | 20.0 | 20,400 | 644,000 | 6 | 7 | 11 |
| 20... | 1040 | -- | 7,850 | 20.0 | 16,200 | 343,000 | -- | -- | -- |
| 22... | 1130 | 7.0 | 4,550 | 20.0 | 10,900 | 134,000 | -- | -- | -- |
| 25... | 1125 | 6.0 | 5,860 | 20.0 | 14,200 | 225,000 | -- | -- | -- |
| DEC | | | | | | | | | |
| 01... | 1150 | 2.5 | 2,740 | 20.0 | 7,110 | 52,600 | -- | -- | -- |
| 05... | 1145 | 5.0 | 2,090 | 20.0 | 8,730 | 49,300 | -- | -- | -- |
| 12... | 1305 | 6.0 | 3,660 | 20.0 | 6,740 | 66,600 | -- | -- | -- |
| 19... | 1225 | 4.0 | 2,210 | 20.0 | 5,360 | 32,000 | -- | -- | -- |
| 30... | 1340 | 3.5 | 3,300 | 20.0 | 13,100 | 117,000 | 10 | 11 | 15 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | |
| 05... | -- | -- | 50 | 72 | 95 | 100 | -- | -- |
| 14... | -- | -- | 45 | 70 | 93 | 99 | 100 | -- |
| 28... | -- | -- | 51 | 74 | 95 | 99 | 100 | -- |
| 31... | -- | -- | 67 | 79 | 94 | 99 | 99 | 99 |
| NOV | | | | | | | | |
| 03... | 38 | 53 | 66 | 77 | 97 | 99 | 100 | -- |
| 03... | 36 | 54 | 71 | 87 | 98 | 100 | -- | -- |
| 03... | 33 | 47 | 59 | 80 | 96 | 99 | 100 | -- |
| 03... | 28 | 42 | 57 | 70 | 94 | 99 | 100 | -- |
| 04... | 17 | 26 | 41 | 60 | 89 | 98 | 100 | -- |
| 07... | -- | -- | 34 | 59 | 87 | 99 | 100 | -- |
| 14... | -- | -- | 32 | 52 | 80 | 95 | 99 | 100 |
| 14... | -- | -- | 29 | 46 | 81 | 99 | 100 | -- |
| 17... | 21 | 31 | 41 | 53 | 77 | 93 | 99 | 100 |
| 17... | 20 | 29 | 38 | 51 | 79 | 95 | 99 | 100 |
| 17... | 16 | 23 | 32 | 43 | 77 | 97 | 100 | -- |
| 18... | 17 | 25 | 34 | 50 | 79 | 92 | 99 | 100 |
| 20... | -- | -- | 27 | 44 | 74 | 95 | 100 | -- |
| 22... | -- | -- | 28 | 37 | 63 | 93 | 99 | 100 |
| 25... | -- | -- | 31 | 47 | 73 | 96 | 100 | -- |
| DEC | | | | | | | | |
| 01... | -- | -- | 30 | 41 | 60 | 90 | 99 | 100 |
| 05... | -- | -- | 33 | -- | -- | -- | -- | -- |
| 12... | -- | -- | 33 | -- | -- | -- | -- | -- |
| 19... | -- | -- | 26 | 36 | 58 | 90 | 99 | 100 |
| 30... | 25 | 35 | 46 | 60 | 78 | 93 | 99 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM |
|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | |
| 03... | 1315 | 8.0 | 12,400 | 20.0 | 52,600 | 1,760,000 | 13 | 14 | 20 |
| 06... | 1220 | 8.0 | 4,230 | 20.0 | 10,700 | 122,000 | -- | -- | -- |
| 11... | 1225 | 7.0 | 3,030 | 20.0 | 8,580 | 70,200 | -- | -- | -- |
| 18... | 1425 | 0.5 | 1,400 | 20.0 | 5,320 | 20,100 | -- | -- | -- |
| 24... | 1030 | 7.0 | 13,200 | 20.0 | 30,400 | 1,080,000 | 9 | 10 | 15 |
| 24... | 1235 | 7.0 | 12,600 | 20.0 | 28,700 | 976,000 | 6 | 8 | 10 |
| 24... | 1530 | 7.0 | 12,200 | 20.0 | 33,000 | 1,090,000 | 9 | 11 | 16 |
| 25... | 1220 | 7.0 | 12,000 | 20.0 | 27,000 | 875,000 | 8 | 10 | 13 |
| 25... | 1450 | 7.0 | 12,100 | 20.0 | 24,000 | 784,000 | 8 | 10 | 11 |
| 26... | 1345 | 6.5 | 7,910 | 20.0 | 17,600 | 376,000 | -- | -- | -- |
| FEB | | | | | | | | | |
| 01... | 1140 | 5.5 | 2,350 | 20.0 | 9,760 | 61,900 | -- | -- | -- |
| 07... | 1255 | 6.0 | 1,540 | 20.0 | 4,320 | 18,000 | -- | -- | -- |
| 13... | 1235 | 7.0 | 5,750 | 20.0 | 10,600 | 165,000 | -- | -- | -- |
| 14... | 1110 | 6.0 | 4,260 | 20.0 | 9,140 | 105,000 | -- | -- | -- |
| 21... | 1350 | 6.5 | 3,470 | 20.0 | 6,710 | 62,900 | -- | -- | -- |
| 28... | 1205 | 7.0 | 2,550 | 20.0 | 5,700 | 39,200 | -- | -- | -- |
| MAR | | | | | | | | | |
| 09... | 1140 | 10.0 | 1,800 | 20.0 | 5,640 | 27,400 | -- | -- | -- |
| 14... | 1350 | 8.0 | 3,120 | 20.0 | 8,360 | 70,400 | -- | -- | -- |
| 23... | 1110 | 9.0 | 4,700 | 20.0 | 7,590 | 96,300 | -- | -- | -- |
| 29... | 1010 | 7.0 | 3,500 | 20.0 | 6,480 | 61,200 | -- | -- | -- |
| APR | | | | | | | | | |
| 06... | 1250 | 8.0 | 2,140 | 20.0 | 4,620 | 26,700 | -- | -- | -- |
| 10... | 1155 | 6.5 | 3,900 | 20.0 | 5,380 | 56,700 | -- | -- | -- |
| 18... | 1350 | 10.0 | 2,770 | 20.0 | 5,280 | 39,500 | -- | -- | -- |
| 24... | 1100 | 7.0 | 1,910 | 20.0 | 4,080 | 21,000 | -- | -- | -- |
| MAY | | | | | | | | | |
| 03... | 1025 | 8.0 | 3,530 | 20.0 | 7,020 | 66,900 | -- | -- | -- |
| 14... | 1240 | 12.0 | 3,490 | 20.0 | 5,120 | 48,200 | 4 | 5 | 9 |
| 14... | 1835 | 12.0 | 3,540 | 20.0 | 22,800 | 218,000 | 18 | 24 | 36 |
| 15... | 1105 | 9.5 | 3,350 | 20.0 | 14,100 | 128,000 | 10 | 11 | 20 |
| 24... | 1035 | 9.0 | 3,180 | 20.0 | 8,620 | 74,000 | -- | -- | -- |
| JUN | | | | | | | | | |
| 07... | 1250 | 11.5 | 2,250 | 20.0 | 7,060 | 42,900 | -- | -- | -- |
| 19... | 1515 | 13.5 | 1,660 | 20.0 | 6,700 | 30,000 | -- | -- | -- |
| 21... | 1410 | 12.5 | 5,940 | 20.0 | 10,400 | 167,000 | 5 | 7 | 9 |
| JUL | | | | | | | | | |
| 01... | 1420 | 15.0 | 1,970 | 20.0 | 4,620 | 24,600 | -- | -- | -- |
| 20... | 1315 | 15.0 | 963 | 20.0 | 4,710 | 12,200 | -- | -- | -- |
| 27... | 1430 | 16.5 | 866 | 20.0 | 4,990 | 11,700 | -- | -- | -- |
| AUG | | | | | | | | | |
| 03... | 1440 | 18.5 | 523 | 10.0 | 1,800 | 2,540 | -- | -- | -- |
| 10... | 1225 | 18.0 | 413 | 10.0 | 1,410 | 1,570 | -- | -- | -- |
| 17... | 1240 | 21.0 | 413 | 10.0 | 825 | 920 | -- | -- | -- |
| 24... | 1120 | 16.0 | 371 | 10.0 | 1,040 | 1,040 | -- | -- | -- |
| SEP | | | | | | | | | |
| 07... | 1430 | 14.0 | 737 | 20.0 | 6,430 | 12,800 | -- | -- | -- |
| 11... | 1225 | 10.0 | 509 | 20.0 | 1,500 | 2,060 | -- | -- | -- |
| 21... | 1210 | 14.0 | 357 | 10.0 | 682 | 657 | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | |
| 03... | 35 | 56 | 64 | 76 | 93 | 99 | 100 | -- |
| 06... | -- | -- | 44 | 58 | 81 | 96 | 99 | 100 |
| 11... | -- | -- | 43 | 56 | 78 | 96 | 100 | -- |
| 18... | -- | -- | 29 | 39 | 64 | 90 | 98 | 100 |
| 24... | 24 | 35 | 47 | 67 | 90 | 98 | 100 | -- |
| 24... | 16 | 24 | 33 | 42 | 73 | 94 | 99 | 100 |
| 24... | 26 | 38 | 47 | 61 | 83 | 97 | 99 | 100 |
| 25... | 22 | 32 | 42 | 53 | 84 | 95 | 99 | 100 |
| 25... | 21 | 31 | 40 | 57 | 83 | 96 | 99 | 100 |
| 26... | -- | -- | 26 | 39 | 66 | 81 | 81 | 100 |
| FEB | | | | | | | | |
| 01... | -- | -- | 42 | 55 | 78 | 94 | 99 | 100 |
| 07... | -- | -- | 31 | 48 | 82 | 98 | 100 | -- |
| 13... | -- | -- | 28 | 42 | 68 | 90 | 98 | 100 |
| 14... | -- | -- | 28 | 41 | 67 | 91 | 99 | -- |
| 21... | -- | -- | 29 | 44 | 73 | 95 | 100 | -- |
| 28... | -- | -- | 32 | 45 | 68 | 93 | 99 | 100 |
| MAR | | | | | | | | |
| 09... | -- | -- | 35 | 47 | 71 | 95 | 100 | -- |
| 14... | -- | -- | 28 | 45 | 73 | 93 | 99 | 100 |
| 23... | -- | -- | 27 | 40 | 64 | 85 | 98 | 100 |
| 29... | -- | -- | 20 | 30 | 53 | 81 | 96 | 99 |
| APR | | | | | | | | |
| 06... | -- | -- | 32 | 42 | 64 | 88 | 98 | 100 |
| 10... | -- | -- | 23 | 35 | 62 | 90 | 99 | 100 |
| 18... | -- | -- | 35 | 46 | 65 | 84 | 98 | 100 |
| 24... | -- | -- | 39 | 50 | 70 | 90 | 99 | 100 |
| MAY | | | | | | | | |
| 03... | -- | -- | 27 | 38 | 62 | 88 | 98 | -- |
| 14... | 14 | 20 | 28 | 41 | 65 | 88 | 99 | 100 |
| 14... | 55 | 70 | 78 | 84 | 92 | 98 | 100 | -- |
| 15... | 33 | 47 | 58 | 72 | 85 | 95 | 99 | 100 |
| 24... | -- | -- | 32 | 45 | 69 | 89 | 98 | 99 |
| JUN | | | | | | | | |
| 07... | -- | -- | 45 | 59 | 79 | 93 | 99 | -- |
| 19... | -- | -- | 42 | -- | -- | -- | -- | -- |
| 21... | 16 | 23 | 34 | 53 | 81 | 96 | 99 | 100 |
| JUL | | | | | | | | |
| 01... | -- | -- | 41 | -- | -- | -- | -- | -- |
| 20... | -- | -- | 35 | 44 | 66 | 87 | 96 | 100 |
| 27... | -- | -- | 37 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | |
| 03... | -- | -- | 19 | 27 | 54 | 88 | 97 | 99 |
| 10... | -- | -- | 30 | 42 | 73 | 96 | 100 | 100 |
| 17.. | -- | -- | 30 | 46 | 83 | 99 | 100 | 100 |
| 24... | -- | -- | 23 | 63 | 77 | 98 | 100 | 100 |
| SEP | | | | | | | | |
| 07... | -- | -- | 16 | 27 | 52 | 89 | 99 | 99 |
| 11... | -- | -- | 18 | 27 | 51 | 64 | 100 | -- |
| 21... | -- | -- | 31 | 45 | 84 | 100 | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 02... | 1220 | 12.0 | 362 | 10.0 | 768 | 751 | -- | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 02... | 1115 | 8.0 | 7,530 | 20.0 | 24,800 | 504,000 | 7 | 9 | 18 | 31 | 48 | -- |
| 02... | 1455 | 8.5 | 9,020 | 20.0 | 24,500 | 597,000 | 7 | 7 | 14 | 24 | 35 | -- |
| 03... | 1150 | 7.5 | 7,890 | 20.0 | 13,700 | 292,000 | 5 | 7 | 11 | 18 | 28 | -- |
| 16... | 1415 | 7.0 | 2,840 | 20.0 | 6,110 | 46,900 | -- | -- | -- | -- | -- | -- |
| 23... | 1340 | 7.0 | 3,070 | 20.0 | 6,650 | 55,100 | -- | -- | -- | -- | -- | -- |
| 26... | 1325 | 6.0 | 2,210 | 20.0 | 3,820 | 22,800 | -- | -- | -- | -- | -- | -- |
| 30... | 1255 | 6.0 | 5,130 | 20.0 | 5,370 | 74,400 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 12... | 1215 | 4.0 | 1,960 | 20.0 | 4,680 | 24,800 | -- | -- | -- | -- | -- | -- |
| 27... | 1215 | 4.0 | 2,630 | 20.0 | 4,160 | 29,500 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 09... | 1310 | 8.0 | 1,510 | 20.0 | 2,180 | 8,890 | 4 | 4 | 7 | 14 | 20 | -- |
| 17... | 1215 | 5.0 | 1,350 | 20.0 | 3,000 | 10,900 | 4 | 4 | 5 | 10 | 16 | -- |
| 31... | 1340 | 3.0 | 1,030 | 20.0 | 2,080 | 5,780 | 5 | 5 | 7 | 13 | 18 | -- |
| FEB | | | | | | | | | | | | |
| 11... | 1335 | 5.5 | 2,060 | 20.0 | 5,420 | 30,100 | 2 | 2 | 3 | 7 | 12 | -- |
| 21... | 1150 | 5.5 | 1,650 | 20.0 | 2,430 | 10,800 | 5 | 6 | 10 | 17 | 24 | -- |
| MAR | | | | | | | | | | | | |
| 06... | 1345 | 7.5 | 1,480 | 20.0 | 2,280 | 9,110 | -- | -- | -- | -- | -- | -- |
| 22... | 1345 | 6.5 | 1,720 | 20.0 | 2,760 | 12,800 | -- | -- | -- | -- | -- | 22 |
| 23... | 1610 | 8.5 | 3,210 | 20.0 | 7,140 | 61,900 | -- | -- | -- | -- | -- | 36 |
| 27... | 1145 | 6.5 | 2,200 | 20.0 | 2,960 | 17,600 | 6 | 7 | 12 | 18 | 26 | -- |
| APR | | | | | | | | | | | | |
| 02... | 1300 | 10.5 | 2,960 | 20.0 | 3,050 | 24,400 | -- | -- | -- | -- | -- | -- |
| 11... | 1205 | 11.0 | 3,270 | 20.0 | 6,860 | 60,600 | 9 | 11 | 23 | 37 | 52 | 63 |
| 30... | 1340 | 9.5 | 1,930 | 20.0 | 2,340 | 12,200 | 4 | 5 | 6 | 11 | 17 | 25 |
| MAY | | | | | | | | | | | | |
| 17... | 1400 | 14.5 | 2,320 | 20.0 | 5,050 | 31,600 | -- | -- | -- | -- | -- | 47 |
| 24... | 1450 | 14.0 | 2,260 | 20.0 | 9,660 | 58,900 | 12 | 19 | 24 | 40 | 54 | 64 |
| 28... | 1155 | 12.5 | 2,030 | 20.0 | 14,400 | 78,900 | 13 | 14 | 19 | 33 | 47 | 64 |
| 31... | 1145 | 12.0 | 1,640 | 20.0 | 10,700 | 47,400 | 8 | 13 | 17 | 27 | 41 | 56 |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | | | |
| 07... | 1220 | 12.0 | 9,440 | 20.0 | 21,200 | 540,000 | 8 | 11 | 17 | 28 | 42 |
| 07... | 1325 | 12.0 | 9,170 | 20.0 | 23,600 | 584,000 | 11 | 12 | 22 | 34 | 50 |
| 07... | 1635 | 12.0 | 8,920 | 20.0 | 23,000 | 554,000 | 11 | 14 | 24 | 40 | 56 |
| 08... | 1410 | 13.0 | 5,660 | 20.0 | 10,400 | 159,000 | 10 | 12 | 17 | 28 | 41 |
| 10... | 1310 | 12.5 | 3,400 | 20.0 | 7,920 | 72,700 | 6 | 9 | 15 | 24 | 35 |
| 27... | 1525 | 16.5 | 1,250 | 20.0 | 6,360 | 21,500 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 05... | 1325 | 17.0 | 675 | 20.0 | 3,930 | 7,160 | -- | -- | -- | -- | -- |
| 23... | 1245 | 27.0 | 551 | 20.0 | 2,390 | 3,560 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 03... | 1610 | 18.5 | 481 | 20.0 | 2,240 | 2,910 | -- | -- | -- | -- | -- |
| 10... | 1530 | 13.5 | 1,240 | 20.0 | 7,580 | 25,400 | 6 | 7 | 8 | 15 | 25 |
| 24... | 1335 | 15.0 | 597 | 20.0 | 2,200 | 3,550 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 02... | 27 | -- | 38 | -- | 71 | -- | 96 | -- | 100 | -- | -- |
| NOV | | | | | | | | | | | |
| 02... | 62 | -- | 78 | -- | 95 | -- | 99 | -- | 100 | -- | -- |
| 02... | 46 | -- | 59 | -- | 73 | -- | 79 | -- | 93 | -- | 98 |
| 03... | 41 | -- | 62 | -- | 86 | -- | 97 | -- | 100 | -- | -- |
| 16... | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | 39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 12... | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 27... | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 09... | 27 | -- | 39 | -- | 66 | -- | 92 | -- | 99 | -- | 100 |
| 17... | 24 | -- | 40 | -- | 69 | -- | 93 | -- | 100 | -- | -- |
| 31... | 26 | -- | 40 | -- | 69 | -- | 94 | -- | 100 | -- | -- |
| FEB | | | | | | | | | | | |
| 11... | 24 | -- | 46 | -- | 78 | -- | 96 | -- | 100 | -- | -- |
| 21... | 32 | -- | 43 | -- | 67 | -- | 91 | -- | 99 | -- | 100 |
| MAR | | | | | | | | | | | |
| 06... | 23 | -- | 33 | -- | 57 | -- | 86 | -- | 99 | -- | 100 |
| 22... | 23 | 38 | -- | 68 | -- | 92 | -- | 100 | -- | -- | -- |
| 23... | 33 | 63 | -- | 88 | -- | 97 | -- | 100 | -- | -- | -- |
| 27... | 37 | -- | 49 | -- | 70 | -- | 90 | -- | 100 | -- | -- |
| APR | | | | | | | | | | | |
| 02... | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11... | 63 | 75 | -- | 89 | -- | 98 | -- | 99 | -- | 100 | -- |
| 30... | 24 | 39 | -- | 66 | -- | 93 | -- | 96 | -- | 100 | -- |
| MAY | | | | | | | | | | | |
| 17... | 48 | 62 | -- | 85 | -- | 95 | -- | 100 | -- | -- | -- |
| 24... | 64 | 76 | -- | 89 | -- | 98 | -- | 100 | -- | -- | -- |
| 28... | 62 | 83 | -- | 93 | -- | 99 | -- | 100 | -- | -- | -- |
| 31... | 56 | 74 | -- | 90 | -- | 99 | -- | 100 | -- | -- | -- |

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | | |
| 07... | -- | 56 | -- | 77 | -- | 95 | -- | 99 | -- | 100 |
| 07... | 68 | 65 | 85 | -- | 97 | -- | 100 | -- | -- | -- |
| 07... | 72 | 69 | 86 | -- | 96 | -- | 100 | -- | -- | -- |
| 08... | 52 | 51 | 73 | -- | 90 | -- | 99 | -- | 100 | -- |
| 10... | 48 | 48 | 68 | -- | 86 | -- | 99 | -- | 100 | -- |
| 27... | -- | 44 | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | |
| 05... | -- | 42 | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | 24 | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | |
| 03... | -- | 20 | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | -- | 41 | -- | 67 | -- | 91 | -- | 98 | -- | 100 |
| 24... | -- | 33 | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 02... | 1200 | -- | 580 | 20.0 | 1,720 | 2,690 | -- | -- | -- | -- | -- | -- |
| 16... | 1550 | -- | 703 | 20.0 | 5,400 | 10,200 | -- | -- | -- | -- | -- | -- |
| 23... | 1525 | 10.0 | 2,760 | 20.0 | 5,120 | 38,200 | -- | -- | -- | -- | -- | -- |
| 25... | 1235 | 11.0 | 6,190 | 20.0 | 10,600 | 177,000 | 7 | 9 | 16 | 24 | 35 | -- |
| 25... | 1745 | 12.0 | 5,240 | 20.0 | 7,860 | 111,000 | -- | -- | -- | -- | -- | 42 |
| NOV | | | | | | | | | | | | |
| 06... | 1235 | 8.5 | 5,590 | 20.0 | 5,720 | 86,300 | -- | -- | -- | -- | -- | 33 |
| 08... | 1210 | 7.0 | 5,340 | 20.0 | 6,290 | 90,700 | -- | -- | -- | -- | -- | 34 |
| 21... | 1320 | 2.5 | 2,010 | 20.0 | 1,620 | 8,790 | -- | -- | -- | -- | -- | 27 |
| 29... | 1315 | 0.5 | 1,160 | 20.0 | 1,250 | 3,910 | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | | |
| 09... | 1335 | 3.5 | 3,000 | 20.0 | 1,980 | 16,000 | -- | -- | -- | -- | -- | 27 |
| 23... | 1300 | -- | 1,110 | 20.0 | 664 | 1,990 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 03... | 1255 | 4.5 | 2,020 | 20.0 | 1,240 | 6,760 | -- | -- | -- | -- | -- | -- |
| 10... | 1230 | 6.0 | 2,880 | 20.0 | 1,220 | 9,490 | -- | -- | -- | -- | -- | -- |
| 16... | 1215 | 8.0 | 2,130 | 20.0 | 970 | 5,580 | -- | -- | -- | -- | -- | -- |
| 19... | 1140 | 7.5 | 8,310 | 20.0 | 9,780 | 219,000 | 11 | 14 | 17 | 33 | 49 | 66 |
| 21... | 1345 | 5.0 | 4,080 | 20.0 | 4,840 | 53,300 | -- | -- | -- | -- | -- | 53 |
| 29... | 1210 | 6.5 | 2,280 | 20.0 | 2,570 | 15,800 | -- | -- | -- | -- | -- | 34 |
| FEB | | | | | | | | | | | | |
| 11... | 1345 | 4.0 | 1,540 | 20.0 | 1,480 | 6,150 | -- | -- | -- | -- | -- | 37 |
| 16... | 1635 | 4.5 | 5,780 | 20.0 | 4,240 | 66,200 | -- | -- | -- | -- | -- | 33 |
| 18... | 1545 | 5.0 | 3,210 | 20.0 | 2,420 | 21,000 | -- | -- | -- | -- | -- | -- |
| 23... | 1810 | -- | 23,700 | 20.0 | 25,400 | 1,630,000 | 6 | 9 | 16 | 27 | 39 | 58 |
| 24... | 1020 | 9.5 | 17,700 | 20.0 | 17,400 | 832,000 | 9 | 9 | 16 | 26 | 32 | -- |
| 26... | 1530 | 11.0 | 7,060 | 20.0 | 8,180 | 156,000 | -- | -- | -- | -- | -- | 46 |
| MAR | | | | | | | | | | | | |
| 07... | 1445 | 12.0 | 3,360 | 20.0 | 7,700 | 69,900 | 7 | 10 | 16 | 24 | 35 | 49 |
| 07... | 1450 | 12.0 | 3,330 | 20.0 | 7,160 | 64,400 | 8 | 10 | 18 | 27 | 37 | 52 |
| 14... | 1205 | 7.5 | 2,980 | 20.0 | 4,900 | 39,400 | -- | -- | -- | -- | -- | 49 |
| 28... | 1435 | 11.5 | 2,300 | 20.0 | 2,460 | 15,300 | -- | -- | -- | -- | -- | 51 |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| APR | | | | | | | |
| 09... | 1400 | 11.5 | 1,480 | 20.0 | 2,000 | 7,990 | -- |
| 24... | 1245 | 6.5 | 1,430 | 20.0 | 2,460 | 9,500 | 25 |
| MAY | | | | | | | |
| 09... | 1315 | 10.0 | 1,970 | 20.0 | 2,310 | 12,300 | 22 |
| 21... | 1315 | 14.0 | 2,380 | 20.0 | 2,640 | 17,000 | 24 |
| JUN | | | | | | | |
| 10... | 1220 | 19.5 | 970 | 20.0 | 2,030 | 5,320 | -- |
| JUL | | | | | | | |
| 02... | 1345 | 19.5 | 637 | 10.0 | 1,020 | 1,750 | -- |
| 22... | 1230 | 17.5 | 584 | 10.0 | 895 | 1,410 | -- |
| AUG | | | | | | | |
| 07... | 1110 | 20.5 | 425 | 10.0 | 1,060 | 1,220 | -- |
| 21... | 1215 | -- | 371 | 10.0 | 726 | 727 | -- |
| SEP | | | | | | | |
| 08... | 1210 | 16.0 | 302 | 10.0 | 312 | 254 | -- |
| 24... | 1200 | 12.0 | 864 | 10.0 | 3,170 | 7,390 | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 02... | 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | 46 | -- | 66 | -- | 89 | -- | 99 | -- | 100 | -- | -- |
| 25... | 44 | 64 | -- | 87 | -- | 98 | -- | 100 | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 06... | 33 | 57 | -- | 83 | -- | 94 | -- | 99 | -- | 100 | -- |
| 08... | 33 | 52 | -- | 80 | -- | 95 | -- | 99 | -- | 100 | -- |
| 21... | 27 | 39 | -- | 62 | -- | 83 | -- | 98 | -- | 100 | -- |
| 29... | 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 09... | 30 | 42 | -- | 77 | -- | 93 | -- | 99 | -- | 100 | -- |
| 23... | 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 03... | 35 | -- | 46 | -- | 71 | -- | 92 | -- | 100 | -- | -- |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | 41 | -- | 59 | -- | 83 | -- | 96 | -- | 99 | -- | 100 |
| 19... | 64 | 84 | -- | 94 | -- | 99 | -- | 100 | -- | -- | -- |
| 21... | 52 | 73 | -- | 92 | -- | 99 | -- | 99 | -- | 100 | -- |
| 29... | 33 | 52 | -- | 82 | -- | 97 | -- | 100 | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 11... | 37 | 52 | -- | 80 | -- | 96 | -- | 100 | -- | -- | -- |
| 16... | 37 | 50 | -- | 69 | -- | 83 | -- | 98 | -- | 100 | -- |
| 18... | 40 | -- | 55 | -- | 78 | -- | 96 | -- | 99 | -- | 100 |
| 23... | 56 | 81 | -- | 96 | -- | 99 | -- | 100 | -- | -- | -- |
| 24... | 49 | -- | 71 | -- | 91 | -- | 99 | -- | 100 | -- | -- |
| 26... | 44 | 69 | -- | 93 | -- | 100 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 07... | -- | 67 | -- | 88 | -- | 98 | -- | 100 | -- | -- | -- |
| 07... | -- | 72 | -- | 93 | -- | 99 | -- | 100 | -- | -- | -- |
| 14... | 47 | 73 | -- | 95 | -- | 100 | -- | -- | -- | -- | -- |
| 28... | 50 | 71 | -- | 90 | -- | 99 | -- | 100 | -- | -- | -- |

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|
| APR | | | | | | |
| 09... | 43 | -- | -- | -- | -- | -- |
| 24... | 30 | 40 | 75 | 95 | 99 | 100 |
| MAY | | | | | | |
| 09... | 21 | 36 | 79 | 99 | 100 | -- |
| 21... | 28 | 39 | 75 | 98 | 100 | -- |
| JUN | | | | | | |
| 10... | 34 | -- | -- | -- | -- | -- |
| JUL | | | | | | |
| 02... | 37 | -- | -- | -- | -- | -- |
| 22... | 23 | -- | -- | -- | -- | -- |
| AUG | | | | | | |
| 07... | 10 | -- | -- | -- | -- | -- |
| 21... | 4 | -- | -- | -- | -- | -- |
| SEP | | | | | | |
| 08... | 13 | -- | -- | -- | -- | -- |
| 24... | 32 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM | SED. SUSP. FALL DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 08... | 1340 | 12.5 | 485 | 10.0 | 363 | 475 | -- | -- | -- | -- | -- | -- |
| 22... | 1450 | 14.0 | 355 | 10.0 | 166 | 159 | -- | -- | -- | -- | -- | -- |
| 31... | 1240 | 12.0 | 1,890 | 20.0 | 5,410 | 27,600 | 5 | 5 | 8 | 14 | 23 | 39 |
| NOV | | | | | | | | | | | | |
| 14... | 1325 | 9.5 | 1,180 | 20.0 | 2,250 | 7,170 | -- | -- | -- | -- | -- | 19 |
| 19... | 1125 | 9.5 | 3,060 | 20.0 | 4,340 | 35,900 | -- | -- | -- | -- | -- | 39 |
| 21... | 1440 | 9.5 | 6,370 | 20.0 | 7,540 | 130,000 | -- | -- | -- | -- | -- | 32 |
| 22... | 1255 | -- | 9,170 | 20.0 | 6,810 | 169,000 | -- | -- | -- | -- | -- | -- |
| 24... | 0950 | 10.0 | 22,900 | 20.0 | 16,200 | 1,000,000 | -- | -- | -- | -- | -- | 34 |
| 24... | 1120 | 9.5 | 24,200 | 20.0 | 13,800 | 902,000 | -- | -- | -- | -- | -- | 38 |
| 24... | 1405 | 9.5 | 22,900 | 20.0 | 15,000 | 927,000 | 5 | 6 | 11 | 17 | 26 | 40 |
| 24... | 1655 | 9.5 | 19,600 | 20.0 | 13,400 | 709,000 | -- | -- | -- | -- | -- | 36 |
| 24... | 1710 | 9.5 | 19,400 | 20.0 | 13,000 | 681,000 | -- | -- | -- | -- | -- | 35 |
| 25... | 1125 | 8.5 | 11,300 | 20.0 | 7,330 | 224,000 | -- | -- | -- | -- | -- | 42 |
| DEC | | | | | | | | | | | | |
| 15... | 1355 | 8.5 | 2,140 | 20.0 | 2,420 | 14,000 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 05... | 1255 | 6.5 | 3,700 | 20.0 | 2,550 | 25,500 | -- | -- | -- | -- | -- | -- |
| 14... | 1340 | -- | 3,190 | 20.0 | 2,200 | 18,900 | -- | -- | -- | -- | -- | -- |
| 28... | 1055 | 7.5 | 4,730 | 20.0 | 4,300 | 54,900 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1045 | 8.5 | 21,400 | 20.0 | 28,100 | 1,620,000 | 8 | 14 | 17 | 31 | 47 | -- |
| 01... | 1345 | 8.5 | 18,400 | 20.0 | 19,800 | 984,000 | 11 | 13 | 16 | 28 | 44 | -- |
| 01... | 1600 | 8.0 | 16,200 | 20.0 | 15,600 | 682,000 | 8 | 9 | 12 | 22 | 34 | -- |
| 01... | 1615 | 8.0 | 15,900 | 20.0 | 14,800 | 635,000 | 8 | 8 | 11 | 21 | 33 | 45 |
| 02... | 0915 | 7.5 | 10,200 | 20.0 | 8,380 | 231,000 | -- | -- | -- | -- | -- | -- |
| 12... | 1030 | 7.0 | 2,070 | 20.0 | 3,410 | 19,100 | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 02... | 1340 | 8.0 | 3,960 | 20.0 | 5,480 | 58,600 | -- | -- | -- | -- | -- | -- |
| 04... | 1035 | 9.0 | 11,000 | 20.0 | 12,600 | 374,000 | 8 | 9 | 11 | 24 | 36 | 54 |
| 09... | 1215 | 8.0 | 3,320 | 20.0 | 5,400 | 48,400 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | |
| 02... | 1140 | 12.0 | 1,380 | 20.0 | 1,720 | 6,410 | -- | -- | -- | -- | -- | -- |
| 29... | 1505 | -- | 1,940 | 20.0 | 2,460 | 12,900 | -- | -- | -- | -- | -- | -- |

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|
| MAY | | | | | | | |
| 11... | 1430 | -- | 1,590 | 20.0 | 3,110 | 13,400 | 24 |
| 28... | 1300 | -- | 870 | 20.0 | 1,820 | 4,280 | 33 |
| JUN | | | | | | | |
| 09... | 1510 | -- | 949 | 20.0 | 1,720 | 4,410 | 33 |
| JUL | | | | | | | |
| 13... | 1145 | -- | 457 | 10.0 | 474 | 585 | 36 |
| 31... | 1215 | -- | 412 | 10.0 | 353 | 393 | -- |
| SEP | | | | | | | |
| 03... | 1210 | 18.0 | 316 | 10.0 | 156 | 133 | 52 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| DATE | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 08... | 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 31... | -- | 67 | -- | 83 | -- | 92 | -- | 100 | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 14... | -- | 33 | -- | 68 | -- | 92 | -- | 99 | -- | 100 | -- |
| 19... | -- | 63 | -- | 89 | -- | 98 | -- | 100 | -- | -- | -- |
| 21... | -- | 51 | -- | 82 | -- | 98 | -- | 100 | -- | -- | -- |
| 22... | 37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | -- | 51 | -- | 75 | -- | 88 | -- | 99 | -- | 100 | -- |
| 24... | -- | 61 | -- | 87 | -- | 96 | -- | 98 | -- | 100 | -- |
| 24... | -- | 63 | -- | 89 | -- | 98 | -- | 99 | -- | 100 | -- |
| 24... | -- | 55 | -- | 80 | -- | 89 | -- | 99 | -- | 100 | -- |
| 24... | -- | 54 | -- | 81 | -- | 98 | -- | 99 | -- | 100 | -- |
| 25... | -- | 62 | -- | 90 | -- | 99 | -- | 100 | -- | 100 | -- |
| DEC | | | | | | | | | | | |
| 15... | 32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 05... | 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14... | 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | 21 | -- | 33 | -- | 55 | -- | 88 | -- | 99 | -- | 100 |
| FEB | | | | | | | | | | | |
| 01... | 62 | -- | 78 | -- | 90 | -- | 97 | -- | 100 | -- | -- |
| 01... | 58 | -- | 77 | -- | 93 | -- | 99 | -- | 100 | -- | -- |
| 01... | 47 | -- | 67 | -- | 84 | -- | 97 | -- | 99 | -- | 100 |
| 01... | -- | 71 | -- | 89 | -- | 94 | -- | 98 | -- | 100 | -- |
| 02... | 40 | -- | 56 | -- | 80 | -- | 96 | -- | 99 | -- | 100 |
| 12... | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 02... | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 04... | -- | 77 | -- | 93 | -- | 99 | -- | 100 | -- | 100 | -- |
| 09... | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 02... | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 29... | 38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 05... | 1140 | 0 | 0 | 2 | 3 | 11 | 60 | 94 | 100 | -- | -- | -- |
| 05... | 1145 | 1 | 6 | 37 | 83 | 96 | 99 | 100 | -- | -- | -- | -- |
| 05... | 1150 | 0 | 3 | 26 | 84 | 99 | 100 | -- | -- | -- | -- | -- |
| 05... | 1155 | 0 | 1 | 5 | 18 | 32 | 41 | 49 | 65 | 92 | 100 | -- |
| 05... | 1200 | 0 | 0 | 2 | 2 | 8 | 56 | 92 | 99 | 100 | -- | -- |
| 14... | 1220 | 0 | 1 | 2 | 4 | 26 | 76 | 95 | 99 | 100 | -- | -- |
| 14... | 1225 | 0 | 3 | 18 | 45 | 62 | 70 | 75 | 78 | 82 | 100 | -- |
| 14... | 1230 | 0 | 1 | 9 | 39 | 76 | 91 | 95 | 97 | 100 | -- | -- |
| 14... | 1235 | 0 | 1 | 10 | 33 | 52 | 64 | 73 | 86 | 95 | 100 | -- |
| 14... | 1240 | 0 | 0 | 2 | 3 | 12 | 52 | 88 | 99 | 100 | -- | -- |
| 28... | 1340 | 0 | 1 | 6 | 8 | 13 | 40 | 71 | 94 | 100 | -- | -- |
| 28... | 1345 | 0 | 2 | 24 | 67 | 83 | 90 | 92 | 94 | 98 | 100 | -- |
| 28... | 1350 | 0 | 2 | 17 | 68 | 94 | 98 | 99 | 99 | 100 | -- | -- |
| 28... | 1355 | 0 | 1 | 4 | 17 | 72 | 94 | 97 | 98 | 100 | -- | -- |
| 28... | 1400 | 0 | 0 | 1 | 1 | 3 | 20 | 52 | 89 | 100 | -- | -- |
| 31... | 1125 | 1 | 4 | 23 | 52 | 71 | 83 | 91 | 96 | 100 | -- | -- |
| 31... | 1130 | 0 | 1 | 9 | 41 | 83 | 95 | 98 | 99 | 100 | -- | -- |
| 31... | 1135 | 0 | 1 | 8 | 32 | 68 | 84 | 91 | 96 | 100 | -- | -- |
| 31... | 1140 | 0 | 1 | 2 | 2 | 7 | 26 | 43 | 59 | 76 | 86 | 100 |
| 31... | 1145 | 0 | 1 | 4 | 6 | 8 | 20 | 34 | 54 | 83 | 100 | -- |
| NOV | | | | | | | | | | | | |
| 04... | 1130 | 1 | 13 | 73 | 98 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 1135 | 1 | 4 | 17 | 61 | 95 | 99 | 100 | -- | -- | -- | -- |
| 04... | 1140 | 1 | 4 | 12 | 29 | 42 | 46 | 47 | 47 | 47 | 47 | 100 |
| 04... | 1145 | 0 | 2 | 5 | 11 | 26 | 78 | 96 | 99 | 100 | -- | -- |
| 04... | 1150 | 0 | 3 | 5 | 6 | 6 | 7 | 12 | 22 | 43 | 100 | -- |
| 22... | 1315 | 0 | 2 | 29 | 92 | 99 | 100 | -- | -- | -- | -- | -- |
| 22... | 1320 | 0 | 0 | 5 | 34 | 80 | 93 | 95 | 96 | 100 | -- | -- |
| 22... | 1325 | 0 | 1 | 6 | 24 | 43 | 53 | 60 | 66 | 82 | 100 | -- |
| 22... | 1330 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 9 | 31 | 100 |
| 22... | 1335 | 2 | 7 | 33 | 71 | 81 | 85 | 88 | 90 | 100 | -- | -- |
| DEC | | | | | | | | | | | | |
| 05... | 1100 | 0 | 2 | 10 | 51 | 77 | 81 | 83 | 86 | 91 | 100 | -- |
| 05... | 1105 | 0 | 1 | 8 | 41 | 84 | 96 | 98 | 100 | -- | -- | -- |
| 05... | 1110 | 0 | 1 | 6 | 33 | 66 | 75 | 79 | 85 | 94 | 100 | -- |
| 05... | 1115 | 0 | 1 | 5 | 19 | 42 | 62 | 75 | 87 | 98 | 100 | -- |
| 05... | 1120 | 2 | 14 | 68 | 97 | 99 | 100 | -- | -- | -- | -- | -- |
| 12... | 1215 | 0 | 1 | 5 | 36 | 77 | 92 | 95 | 98 | 100 | -- | -- |
| 12... | 1220 | 0 | 1 | 6 | 32 | 70 | 88 | 94 | 98 | 100 | -- | -- |
| 12... | 1225 | 0 | 0 | 3 | 12 | 29 | 52 | 66 | 73 | 82 | 100 | -- |
| 12... | 1230 | 0 | 2 | 6 | 15 | 25 | 33 | 38 | 52 | 74 | 100 | -- |
| 19... | 1020 | 0 | 0 | 2 | 19 | 51 | 67 | 76 | 85 | 96 | 100 | -- |
| 19... | 1025 | 0 | 1 | 5 | 45 | 85 | 93 | 95 | 96 | 100 | -- | -- |
| 19... | 1030 | 0 | 0 | 4 | 34 | 85 | 98 | 100 | -- | -- | -- | -- |
| 19... | 1035 | 0 | 0 | 2 | 7 | 18 | 40 | 62 | 76 | 87 | 100 | -- |
| 19... | 1040 | 3 | 13 | 29 | 34 | 37 | 40 | 43 | 48 | 59 | 100 | -- |
| 30... | 1245 | 0 | 0 | 2 | 12 | 34 | 52 | 62 | 72 | 85 | 100 | -- |
| 30... | 1250 | 0 | 1 | 4 | 25 | 59 | 76 | 82 | 87 | 92 | 100 | -- |
| 30... | 1255 | 0 | 1 | 4 | 18 | 34 | 51 | 63 | 73 | 94 | 100 | -- |
| 30... | 1300 | 0 | 1 | 3 | 10 | 19 | 33 | 48 | 62 | 79 | 90 | 100 |
| 30... | 1305 | 5 | 13 | 17 | 20 | 23 | 28 | 37 | 55 | 84 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | | | |
| 06... | 1115 | 0 | 1 | 2 | 13 | 28 | 35 | 40 | 49 | 60 | 100 | -- |
| 06... | 1120 | 0 | 1 | 14 | 63 | 95 | 98 | 99 | 100 | -- | -- | -- |
| 06... | 1125 | 0 | 2 | 12 | 45 | 70 | 77 | 79 | 81 | 86 | 100 | -- |
| 06... | 1130 | 0 | 1 | 4 | 9 | 15 | 24 | 38 | 59 | 96 | 100 | -- |
| 06... | 1135 | 0 | 3 | 11 | 21 | 23 | 25 | 30 | 44 | 69 | 100 | -- |
| 11... | 1120 | 0 | 1 | 5 | 14 | 38 | 67 | 84 | 96 | 100 | -- | -- |
| 11... | 1125 | 0 | 1 | 6 | 34 | 81 | 93 | 96 | 98 | 100 | -- | -- |
| 11... | 1130 | 0 | 1 | 11 | 59 | 90 | 96 | 97 | 99 | 100 | -- | -- |
| 11... | 1135 | 0 | 1 | 18 | 76 | 90 | 94 | 97 | 99 | 100 | -- | -- |
| 11... | 1140 | 0 | 5 | 27 | 57 | 61 | 64 | 68 | 70 | 76 | 100 | -- |
| 18... | 1330 | 0 | 1 | 6 | 30 | 84 | 99 | 100 | -- | -- | -- | -- |
| 18... | 1335 | 0 | 0 | 3 | 17 | 47 | 71 | 83 | 89 | 96 | 100 | -- |
| 18... | 1340 | 0 | 2 | 14 | 61 | 95 | 99 | 100 | -- | -- | -- | -- |
| 18... | 1345 | 0 | 1 | 11 | 64 | 96 | 99 | 100 | -- | -- | -- | -- |
| 18... | 1350 | 0 | 2 | 20 | 64 | 82 | 91 | 93 | 94 | 96 | 100 | -- |
| 24... | 1645 | 1 | 3 | 27 | 94 | 100 | -- | -- | -- | -- | -- | -- |
| 24... | 1650 | 0 | 2 | 16 | 78 | 96 | 97 | 98 | 98 | 98 | 100 | -- |
| 24... | 1655 | 0 | 2 | 11 | 48 | 98 | 100 | -- | -- | -- | -- | -- |
| 24... | 1700 | 0 | 1 | 3 | 4 | 7 | 24 | 38 | 47 | 61 | 87 | 100 |
| 24... | 1705 | 0 | 2 | 5 | 7 | 10 | 27 | 54 | 77 | 96 | 100 | -- |
| 25... | 1410 | 0 | 2 | 28 | 91 | 95 | 96 | 97 | 99 | 100 | -- | -- |
| 25... | 1415 | 0 | 2 | 14 | 72 | 98 | 99 | 99 | 99 | 100 | -- | -- |
| 25... | 1420 | 0 | 1 | 4 | 23 | 89 | 100 | -- | -- | -- | -- | -- |
| 25... | 1425 | 0 | 1 | 3 | 5 | 7 | 21 | 47 | 70 | 93 | 100 | -- |
| 25... | 1430 | 0 | 1 | 3 | 4 | 4 | 6 | 9 | 21 | 50 | 100 | -- |
| 26... | 1430 | 0 | 2 | 21 | 79 | 93 | 94 | 94 | 97 | 100 | -- | -- |
| 26... | 1435 | 0 | 1 | 10 | 60 | 99 | 100 | -- | -- | -- | -- | -- |
| 26... | 1440 | 0 | 1 | 9 | 33 | 74 | 90 | 92 | 93 | 95 | 100 | -- |
| 26... | 1445 | 0 | 2 | 9 | 22 | 42 | 58 | 64 | 68 | 79 | 100 | -- |
| 26... | 1450 | 0 | 1 | 10 | 30 | 40 | 46 | 61 | 84 | 100 | -- | -- |
| FEB | | | | | | | | | | | | |
| 01... | 1100 | 0 | 1 | 20 | 90 | 100 | -- | -- | -- | -- | -- | -- |
| 01... | 1105 | 0 | 0 | 6 | 37 | 85 | 94 | 95 | 96 | 97 | 100 | -- |
| 01... | 1110 | 0 | 1 | 4 | 23 | 56 | 82 | 87 | 90 | 96 | 100 | -- |
| 01... | 1115 | 0 | 2 | 6 | 17 | 32 | 43 | 49 | 56 | 78 | 100 | -- |
| 01... | 1120 | 0 | 2 | 12 | 28 | 32 | 38 | 48 | 63 | 82 | 100 | -- |
| 07... | 1215 | 0 | 1 | 9 | 34 | 45 | 47 | 49 | 51 | 55 | 100 | -- |
| 07... | 1220 | 0 | 1 | 10 | 61 | 93 | 98 | 99 | 100 | -- | -- | -- |
| 07... | 1225 | 0 | 0 | 4 | 25 | 81 | 99 | 100 | -- | -- | -- | -- |
| 07... | 1230 | 0 | 0 | 4 | 29 | 80 | 94 | 96 | 98 | 98 | 100 | -- |
| 07... | 1235 | 2 | 7 | 21 | 37 | 41 | 44 | 55 | 79 | 96 | 100 | -- |
| 13... | 1130 | 0 | 3 | 28 | 92 | 100 | -- | -- | -- | -- | -- | -- |
| 13... | 1135 | 0 | 1 | 9 | 51 | 84 | 87 | 89 | 90 | 94 | 100 | -- |
| 13... | 1140 | 0 | 0 | 4 | 16 | 56 | 83 | 86 | 89 | 94 | 100 | -- |
| 13... | 1145 | 0 | 1 | 3 | 6 | 15 | 42 | 62 | 78 | 100 | -- | -- |
| 13... | 1150 | 0 | 1 | 5 | 12 | 18 | 36 | 45 | 58 | 74 | 100 | -- |
| 21... | 1245 | 0 | 6 | 55 | 100 | -- | -- | -- | -- | -- | -- | -- |
| 21... | 1250 | 0 | 0 | 2 | 26 | 69 | 82 | 86 | 90 | 94 | 100 | -- |
| 21... | 1255 | 0 | 1 | 2 | 7 | 19 | 42 | 54 | 61 | 71 | 100 | -- |
| 21... | 1300 | 0 | 1 | 4 | 8 | 14 | 17 | 19 | 24 | 31 | 100 | -- |
| 21... | 1305 | 2 | 8 | 27 | 41 | 43 | 45 | 49 | 59 | 79 | 100 | -- |
| 28... | 1300 | 0 | 2 | 20 | 80 | 91 | 92 | 92 | 94 | 94 | 100 | -- |
| 28... | 1305 | 0 | 0 | 1 | 3 | 5 | 6 | 7 | 8 | 10 | 23 | 23 |
| 28... | 1310 | 0 | 0 | 1 | 5 | 17 | 27 | 34 | 44 | 67 | 100 | -- |
| 28... | 1315 | 0 | 1 | 6 | 29 | 70 | 90 | 96 | 98 | 100 | -- | -- |
| 28... | 1320 | 0 | 2 | 10 | 20 | 23 | 27 | 34 | 49 | 78 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 14... | 1245 | 0 | 4 | 24 | 85 | 100 | -- | -- | -- | -- | -- |
| 14... | 1250 | 0 | 1 | 6 | 24 | 60 | 83 | 92 | 96 | 100 | -- |
| 14... | 1255 | 0 | 1 | 3 | 12 | 34 | 54 | 62 | 72 | 94 | 100 |
| 14... | 1300 | 0 | 1 | 4 | 11 | 21 | 25 | 26 | 27 | 33 | 100 |
| 14... | 1305 | 1 | 7 | 22 | 32 | 32 | 33 | 37 | 47 | 70 | 100 |
| 23... | 1040 | 0 | 3 | 41 | 99 | 100 | -- | -- | -- | -- | -- |
| 23... | 1045 | 0 | 0 | 5 | 33 | 80 | 96 | 99 | 100 | -- | -- |
| 23... | 1050 | 0 | 0 | 2 | 5 | 13 | 25 | 36 | 50 | 69 | 100 |
| 23... | 1055 | 0 | 1 | 2 | 6 | 11 | 16 | 21 | 41 | 90 | 100 |
| 23... | 1100 | 2 | 15 | 73 | 95 | 96 | 96 | 96 | 98 | 100 | -- |
| 29... | 1130 | 0 | 0 | 2 | 8 | 30 | 48 | 60 | 76 | 95 | 100 |
| 29... | 1135 | 0 | 1 | 9 | 49 | 91 | 98 | 99 | 100 | -- | -- |
| 29... | 1140 | 0 | 0 | 2 | 7 | 15 | 24 | 32 | 43 | 56 | 100 |
| 29... | 1145 | 1 | 6 | 34 | 83 | 98 | 100 | -- | -- | -- | -- |
| 29... | 1150 | 2 | 13 | 50 | 69 | 70 | 71 | 73 | 76 | 87 | 100 |
| APR | | | | | | | | | | | |
| 06... | 1200 | 0 | 0 | 4 | 14 | 36 | 65 | 81 | 93 | 100 | -- |
| 06... | 1205 | 0 | 2 | 18 | 70 | 98 | 100 | -- | -- | -- | -- |
| 06... | 1210 | 0 | 0 | 5 | 29 | 59 | 69 | 72 | 76 | 82 | 100 |
| 06... | 1215 | 0 | 1 | 12 | 32 | 35 | 36 | 36 | 36 | 43 | 100 |
| 18... | 1300 | 0 | 0 | 1 | 8 | 27 | 40 | 50 | 62 | 81 | 100 |
| 18... | 1305 | 0 | 0 | 5 | 28 | 65 | 82 | 88 | 93 | 98 | 100 |
| 18... | 1310 | 0 | 1 | 8 | 37 | 74 | 90 | 93 | 94 | 96 | 100 |
| MAY | | | | | | | | | | | |
| 17... | 1015 | 0 | 0 | 2 | 6 | 23 | 50 | 68 | 79 | 95 | 100 |
| 17... | 1020 | 0 | 1 | 5 | 27 | 58 | 75 | 82 | 88 | 94 | 100 |
| 17... | 1025 | 1 | 3 | 8 | 15 | 22 | 26 | 29 | 34 | 44 | 100 |
| 17... | 1030 | 2 | 8 | 19 | 33 | 52 | 67 | 76 | 86 | 100 | -- |
| 17... | 1035 | 3 | 17 | 58 | 95 | 97 | 99 | 99 | 100 | -- | -- |
| JUN | | | | | | | | | | | |
| 07... | 1205 | 0 | 1 | 4 | 15 | 33 | 49 | 63 | 82 | 92 | 100 |
| 07... | 1210 | 0 | 1 | 3 | 24 | 56 | 69 | 75 | 84 | 92 | 100 |
| 07... | 1215 | 0 | 1 | 8 | 33 | 78 | 94 | 96 | 97 | 100 | -- |
| 07... | 1220 | 2 | 8 | 25 | 59 | 89 | 97 | 100 | -- | -- | -- |
| 07... | 1225 | 5 | 19 | 62 | 88 | 95 | 98 | 100 | -- | -- | -- |
| 19... | 1320 | 0 | 0 | 1 | 2 | 3 | 7 | 14 | 34 | 71 | 100 |
| 19... | 1325 | 0 | 1 | 4 | 15 | 45 | 78 | 90 | 97 | 100 | -- |
| 19... | 1330 | 0 | 2 | 14 | 61 | 94 | 99 | 100 | -- | -- | -- |
| 19... | 1335 | 0 | 2 | 16 | 71 | 93 | 94 | 94 | 94 | 96 | 100 |
| 19... | 1340 | 1 | 3 | 13 | 28 | 33 | 33 | 33 | 33 | 33 | 100 |
| 21... | 1240 | 0 | 1 | 6 | 19 | 43 | 58 | 67 | 77 | 84 | 100 |
| 21... | 1245 | 0 | 1 | 8 | 30 | 53 | 66 | 75 | 85 | 96 | 100 |
| 21... | 1250 | 0 | 0 | 1 | 3 | 6 | 10 | 15 | 28 | 54 | 100 |
| 21... | 1255 | 0 | 1 | 3 | 8 | 19 | 29 | 36 | 47 | 65 | 100 |
| 21... | 1300 | 2 | 12 | 61 | 100 | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 06... | 1255 | 0 | 0 | 1 | 2 | 5 | 12 | 23 | 44 | 84 | 100 |
| 06... | 1300 | 0 | 2 | 10 | 49 | 91 | 98 | 99 | 99 | 100 | -- |
| 06... | 1305 | 0 | 2 | 9 | 42 | 74 | 85 | 89 | 93 | 98 | 100 |
| 06... | 1310 | 0 | 3 | 30 | 95 | 100 | -- | -- | -- | -- | -- |
| 06... | 1315 | 0 | 3 | 30 | 85 | 100 | -- | -- | -- | -- | -- |
| 11... | 1310 | 0 | 1 | 5 | 16 | 25 | 35 | 49 | 70 | 93 | 100 |
| 20... | 1205 | 0 | 1 | 5 | 14 | 21 | 28 | 45 | 72 | 96 | 100 |
| 20... | 1210 | 0 | 0 | 3 | 14 | 39 | 56 | 64 | 72 | 82 | 100 |
| 20... | 1215 | 0 | 0 | 3 | 23 | 65 | 85 | 91 | 94 | 100 | -- |
| 20... | 1220 | 0 | 1 | 7 | 58 | 97 | 100 | -- | -- | -- | -- |
| 20... | 1225 | 0 | 3 | 41 | 99 | 100 | -- | -- | -- | -- | -- |
| 27... | 1310 | 0 | 1 | 4 | 15 | 26 | 36 | 50 | 68 | 87 | 100 |
| 27... | 1315 | -- | 0 | 3 | 18 | 54 | 73 | 80 | 85 | 87 | 100 |
| 27... | 1320 | 0 | 0 | 3 | 22 | 75 | 97 | 99 | 100 | -- | -- |
| 27... | 1325 | 0 | 1 | 7 | 57 | 97 | 99 | 100 | -- | -- | -- |
| 27... | 1330 | 0 | 5 | 54 | 100 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | | | |
| 03... | 1440 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 26 | 100 |
| 03... | 1445 | -- | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 7 | 100 |
| 03... | 1450 | 3 | 16 | 56 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 03... | 1455 | 0 | 1 | 16 | 79 | 98 | 99 | 99 | 100 | -- | -- | -- |
| 03... | 1500 | 0 | 1 | 21 | 87 | 99 | 100 | -- | -- | -- | -- | -- |
| 24... | 1250 | 6 | 12 | 29 | 59 | 77 | 88 | 94 | 100 | -- | -- | -- |
| 24... | 1255 | 1 | 2 | 4 | 17 | 53 | 77 | 88 | 100 | -- | -- | -- |
| 24... | 1335 | -- | 0 | 2 | 11 | 30 | 43 | 56 | 73 | 90 | 100 | -- |
| 24... | 1340 | 0 | 1 | 19 | 88 | 98 | 100 | -- | -- | -- | -- | -- |
| 24... | 1345 | -- | 1 | 17 | 82 | 98 | 100 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 07... | 1240 | 0 | 2 | 9 | 39 | 78 | 92 | 97 | 100 | -- | -- | -- |
| 07... | 1245 | 0 | 2 | 11 | 70 | 96 | 99 | 100 | -- | -- | -- | -- |
| 07... | 1250 | 0 | 1 | 13 | 47 | 70 | 79 | 84 | 90 | 100 | -- | -- |
| 07... | 1255 | 0 | 1 | 3 | 7 | 28 | 57 | 72 | 83 | 91 | 100 | -- |
| 07... | 1300 | 0 | 8 | 33 | 55 | 69 | 90 | 100 | -- | -- | -- | -- |
| 11... | 1155 | 0 | 0 | 3 | 15 | 63 | 86 | 96 | 99 | 100 | -- | -- |
| 11... | 1159 | 0 | 1 | 13 | 54 | 86 | 97 | 99 | 100 | -- | -- | -- |
| 11... | 1203 | 0 | 0 | 5 | 51 | 94 | 99 | 100 | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | |
| 07... | 1330 | 0 | 1 | 3 | 12 | 31 | 49 | 68 | 89 | 98 | 100 | -- |
| 07... | 1332 | 0 | 2 | 11 | 49 | 78 | 85 | 88 | 93 | 100 | -- | -- |
| 07... | 1334 | 0 | 1 | 5 | 16 | 36 | 49 | 55 | 64 | 87 | 100 | -- |
| 07... | 1336 | 0 | 1 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 100 | -- |
| 07... | 1338 | 0 | 19 | 63 | 85 | 89 | 93 | 93 | 100 | -- | -- | -- |
| 23... | 1421 | 1 | 7 | 42 | 91 | 100 | -- | -- | -- | -- | -- | -- |
| 23... | 1425 | 0 | 1 | 5 | 21 | 44 | 63 | 76 | 91 | 96 | 100 | -- |
| 23... | 1430 | 0 | 1 | 6 | 35 | 69 | 80 | 86 | 92 | 100 | -- | -- |
| 23... | 1436 | 0 | 1 | 3 | 11 | 37 | 62 | 76 | 90 | 100 | -- | -- |
| 23... | 1446 | 0 | 1 | 2 | 4 | 13 | 26 | 39 | 54 | 96 | 100 | -- |
| JAN | | | | | | | | | | | | |
| 09... | 1340 | 0 | 0 | 2 | 9 | 51 | 87 | 92 | 93 | 94 | 100 | -- |
| 09... | 1345 | 0 | 0 | 3 | 27 | 84 | 99 | 100 | -- | -- | -- | -- |
| 09... | 1350 | 0 | 0 | 1 | 16 | 54 | 78 | 88 | 94 | 98 | 100 | -- |
| 09... | 1355 | 0 | 0 | 6 | 66 | 100 | -- | -- | -- | -- | -- | -- |
| 09... | 1400 | 0 | 0 | 0 | 5 | 18 | 28 | 33 | 38 | 45 | 58 | 100 |
| 17... | 1240 | 0 | 0 | 1 | 2 | 9 | 29 | 50 | 68 | 91 | 100 | -- |
| 17... | 1242 | 0 | 0 | 3 | 17 | 68 | 89 | 94 | 97 | 100 | -- | -- |
| 17... | 1244 | 0 | 0 | 2 | 15 | 47 | 61 | 68 | 74 | 87 | 100 | -- |
| 17... | 1246 | 0 | 0 | 1 | 9 | 25 | 42 | 54 | 70 | 90 | 100 | -- |
| 17... | 1248 | 0 | 0 | 5 | 42 | 97 | 100 | -- | -- | -- | -- | -- |
| 31... | 1407 | 0 | 0 | 3 | 19 | 75 | 94 | 97 | 100 | -- | -- | -- |
| 31... | 1409 | 0 | 0 | 4 | 34 | 56 | 61 | 63 | 66 | 79 | 100 | -- |
| 31... | 1411 | 0 | 0 | 3 | 15 | 29 | 49 | 61 | 70 | 83 | 100 | -- |
| 31... | 1413 | 0 | 0 | 5 | 35 | 64 | 84 | 94 | 98 | 100 | -- | -- |
| FEB | | | | | | | | | | | | |
| 21... | 1210 | 0 | 0 | 1 | 6 | 24 | 45 | 59 | 74 | 93 | 100 | -- |
| 21... | 1212 | 0 | 0 | 1 | 8 | 34 | 52 | 62 | 74 | 94 | 100 | -- |
| 21... | 1214 | 0 | 0 | 2 | 19 | 59 | 85 | 93 | 98 | 100 | -- | -- |
| 21... | 1216 | 0 | 0 | 2 | 18 | 35 | 46 | 53 | 59 | 73 | 100 | -- |
| 21... | 1218 | 0 | 0 | 3 | 16 | 36 | 64 | 82 | 91 | 94 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 06... | 1545 | 0 | 0 | 1 | 6 | 33 | 60 | 75 | 88 | 97 | 100 |
| 06... | 1547 | 0 | 0 | 2 | 21 | 70 | 85 | 89 | 93 | 98 | 100 |
| 06... | 1549 | 0 | 0 | 4 | 37 | 79 | 91 | 95 | 98 | 100 | -- |
| 06... | 1551 | 0 | 0 | 3 | 19 | 39 | 58 | 75 | 89 | 100 | -- |
| 22... | 1405 | 0 | 0 | 1 | 5 | 13 | 22 | 30 | 46 | 67 | 100 |
| 22... | 1407 | 0 | 0 | 1 | 5 | 19 | 36 | 48 | 59 | 68 | 100 |
| 22... | 1409 | 0 | 0 | 2 | 13 | 42 | 70 | 85 | 93 | 97 | 100 |
| 22... | 1411 | 0 | 1 | 2 | 11 | 20 | 24 | 29 | 42 | 63 | 100 |
| 22... | 1413 | 0 | 1 | 10 | 64 | 81 | 87 | 91 | 96 | 100 | -- |
| 23... | 1625 | 0 | 1 | 2 | 5 | 10 | 16 | 24 | 34 | 60 | 100 |
| 23... | 1627 | 0 | 1 | 2 | 10 | 33 | 45 | 52 | 61 | 78 | 100 |
| 23... | 1629 | 0 | 1 | 6 | 35 | 72 | 83 | 88 | 93 | 95 | 100 |
| 23... | 1631 | 0 | 0 | 3 | 9 | 14 | 21 | 29 | 48 | 74 | 100 |
| 23... | 1633 | 0 | 3 | 27 | 93 | 100 | -- | -- | -- | -- | -- |
| 27... | 1215 | 0 | 0 | 1 | 8 | 36 | 52 | 60 | 72 | 91 | 100 |
| 27... | 1217 | 0 | 0 | 1 | 7 | 28 | 58 | 77 | 89 | 98 | 100 |
| 27... | 1219 | 0 | 0 | 6 | 56 | 99 | 100 | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 02... | 1330 | 0 | 0 | 1 | 10 | 29 | 42 | 51 | 62 | 73 | 100 |
| 02... | 1332 | 0 | 0 | 2 | 15 | 50 | 76 | 85 | 91 | 95 | 100 |
| 02... | 1334 | 0 | 2 | 42 | 98 | 100 | -- | -- | -- | -- | -- |
| 11... | 1245 | 0 | 0 | 1 | 5 | 16 | 28 | 43 | 68 | 92 | 100 |
| 11... | 1247 | 0 | 1 | 4 | 21 | 54 | 75 | 84 | 89 | 96 | 100 |
| 11... | 1249 | 0 | 1 | 11 | 59 | 99 | 100 | -- | -- | -- | -- |
| 30... | 1300 | 0 | 0 | 4 | 26 | 61 | 73 | 79 | 85 | 94 | 100 |
| 30... | 1302 | 0 | 0 | 2 | 12 | 39 | 65 | 82 | 92 | 100 | -- |
| 30... | 1304 | 0 | 1 | 13 | 90 | 100 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 23... | 1045 | 0 | 1 | 4 | 21 | 46 | 60 | 68 | 78 | 90 | 100 |
| 24... | 1315 | 0 | 3 | 24 | 96 | 100 | -- | -- | -- | -- | -- |
| 24... | 1320 | 0 | 0 | 3 | 23 | 58 | 78 | 87 | 93 | 100 | -- |
| 24... | 1325 | 0 | 0 | 3 | 20 | 53 | 67 | 75 | 84 | 96 | 100 |
| 24... | 1330 | 0 | 0 | 2 | 10 | 31 | 49 | 60 | 77 | 93 | 100 |
| 24... | 1335 | 0 | 0 | 1 | 4 | 15 | 36 | 56 | 78 | 95 | 100 |
| 28... | 1045 | 0 | 0 | 2 | 6 | 30 | 64 | 83 | 94 | 100 | -- |
| 28... | 1050 | 0 | 1 | 3 | 18 | 48 | 60 | 66 | 75 | 86 | 100 |
| 28... | 1055 | 0 | 1 | 15 | 81 | 100 | -- | -- | -- | -- | -- |
| 31... | 1215 | 0 | 0 | 2 | 7 | 24 | 44 | 60 | 79 | 100 | -- |
| 31... | 1220 | 0 | 1 | 3 | 22 | 70 | 87 | 92 | 96 | 100 | -- |
| 31... | 1225 | 0 | 1 | 7 | 43 | 75 | 82 | 86 | 91 | 96 | 100 |
| 31... | 1230 | 0 | 1 | 5 | 16 | 22 | 27 | 33 | 44 | 67 | 100 |
| 31... | 1235 | 0 | 0 | 3 | 13 | 39 | 83 | 95 | 98 | 100 | -- |
| JUN | | | | | | | | | | | |
| 07... | 1410 | 0 | 1 | 4 | 6 | 8 | 15 | 30 | 57 | 80 | 100 |
| 07... | 1412 | 0 | 1 | 5 | 15 | 27 | 47 | 68 | 89 | 100 | -- |
| 07... | 1414 | 0 | 1 | 3 | 6 | 14 | 27 | 41 | 52 | 77 | 100 |
| 07... | 1416 | 0 | 1 | 3 | 5 | 13 | 39 | 61 | 75 | 93 | 100 |
| 08... | 1453 | 0 | 1 | 7 | 28 | 56 | 66 | 72 | 80 | 92 | 100 |
| 08... | 1500 | 0 | 1 | 11 | 43 | 72 | 85 | 92 | 97 | 100 | -- |
| 08... | 1504 | 0 | 0 | 1 | 3 | 9 | 22 | 56 | 88 | 97 | 100 |
| 08... | 1511 | 0 | 1 | 5 | 11 | 18 | 27 | 39 | 58 | 69 | 100 |
| 20... | 1355 | 0 | 1 | 17 | 59 | 75 | 87 | 95 | 100 | -- | -- |
| 20... | 1358 | 0 | 1 | 8 | 48 | 80 | 88 | 91 | 96 | 100 | -- |
| 20... | 1401 | 0 | 1 | 5 | 23 | 55 | 72 | 78 | 84 | 91 | 100 |
| 20... | 1406 | 0 | 2 | 9 | 28 | 65 | 87 | 96 | 99 | 99 | 100 |
| 27... | 1545 | 0 | 3 | 16 | 45 | 82 | 97 | 99 | 100 | -- | -- |
| 27... | 1550 | 0 | 3 | 12 | 36 | 69 | 89 | 97 | 100 | -- | -- |
| 27... | 1555 | 1 | 3 | 27 | 80 | 96 | 99 | 99 | 100 | -- | -- |
| 27... | 1600 | 1 | 7 | 49 | 85 | 90 | 93 | 96 | 99 | 100 | -- |
| 27... | 1605 | 4 | 25 | 89 | 100 | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG | | | | | | | | | | | |
| 23... | 1300 | 0 | 0 | 4 | 29 | 61 | 73 | 78 | 82 | 86 | 100 |
| 23... | 1305 | 0 | 2 | 15 | 52 | 85 | 97 | 99 | 100 | -- | -- |
| 23... | 1310 | 0 | 2 | 17 | 63 | 90 | 97 | 98 | 98 | 100 | -- |
| 23... | 1315 | 2 | 13 | 61 | 96 | 100 | -- | -- | -- | -- | -- |
| 23... | 1320 | 0 | 0 | 6 | 20 | 33 | 41 | 50 | 70 | 94 | 100 |
| SEP | | | | | | | | | | | |
| 03... | 1540 | 1 | 8 | 35 | 80 | 92 | 93 | 94 | 96 | 100 | -- |
| 03... | 1545 | 0 | 1 | 13 | 62 | 90 | 97 | 98 | 99 | 99 | 100 |
| 03... | 1550 | 0 | 1 | 8 | 34 | 69 | 86 | 94 | 99 | 100 | -- |
| 03... | 1555 | 0 | 0 | 7 | 50 | 88 | 96 | 98 | 99 | 100 | -- |
| 03... | 1600 | 0 | 0 | 6 | 60 | 91 | 93 | 94 | 95 | 99 | 100 |
| 10... | 1515 | 0 | 2 | 8 | 26 | 56 | 78 | 89 | 96 | 99 | 100 |
| 10... | 1520 | 1 | 4 | 19 | 70 | 93 | 97 | 99 | 100 | -- | -- |
| 10... | 1525 | 0 | 2 | 14 | 62 | 87 | 92 | 93 | 95 | 96 | 100 |
| 10... | 1530 | 0 | 1 | 11 | 30 | 52 | 77 | 90 | 97 | 100 | -- |
| 10... | 1535 | 2 | 22 | 90 | 100 | -- | -- | -- | -- | -- | -- |
| 24... | 1345 | 0 | 2 | 18 | 71 | 99 | 100 | -- | -- | -- | -- |
| 24... | 1350 | 0 | 0 | 3 | 24 | 62 | 84 | 92 | 97 | 100 | -- |
| 24... | 1355 | 0 | 1 | 14 | 75 | 96 | 99 | 100 | -- | -- | -- |
| 24... | 1400 | 0 | 0 | 6 | 38 | 72 | 86 | 92 | 96 | 100 | -- |
| 24... | 1405 | 0 | 0 | 1 | 2 | 8 | 36 | 71 | 94 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 16... | 1610 | 1 | 4 | 22 | 33 | 47 | 82 | 97 | 100 | -- | -- | -- |
| 23... | 1548 | 0 | 0 | 0 | 1 | 1 | 5 | 18 | 49 | 87 | 100 | -- |
| 23... | 1556 | 0 | 1 | 4 | 32 | 79 | 92 | 95 | 97 | 100 | -- | -- |
| 23... | 1603 | 0 | 1 | 9 | 44 | 84 | 95 | 98 | 100 | -- | -- | -- |
| 25... | 1300 | 1 | 3 | 7 | 14 | 21 | 25 | 26 | 29 | 32 | 100 | -- |
| 25... | 1305 | 0 | 2 | 6 | 18 | 34 | 44 | 54 | 58 | 80 | 100 | -- |
| 25... | 1310 | 0 | 1 | 6 | 23 | 40 | 50 | 58 | 67 | 76 | 100 | -- |
| 25... | 1315 | 0 | 0 | 1 | 2 | 4 | 7 | 12 | 21 | 41 | 100 | -- |
| 25... | 1801 | 0 | 1 | 3 | 8 | 14 | 21 | 26 | 33 | 64 | 100 | -- |
| 25... | 1804 | 0 | 1 | 4 | 10 | 16 | 19 | 22 | 38 | 71 | 100 | -- |
| 25... | 1809 | 0 | 1 | 10 | 49 | 78 | 86 | 90 | 92 | 99 | 100 | -- |
| DEC | | | | | | | | | | | | |
| 09... | 1615 | 0 | 0 | 1 | 12 | 70 | 98 | 100 | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 19... | 1240 | 0 | 1 | 2 | 9 | 15 | 21 | 29 | 59 | 100 | -- | -- |
| 19... | 1241 | 0 | 0 | 6 | 45 | 89 | 98 | 100 | -- | -- | -- | -- |
| 29... | 1520 | 1 | 9 | 63 | 99 | 100 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | | |
| 11... | 1417 | 0 | 0 | 1 | 1 | 2 | 10 | 43 | 74 | 88 | 100 | -- |
| 16... | 1720 | 0 | 0 | 5 | 28 | 61 | 74 | 79 | 83 | 88 | 100 | -- |
| 18... | 1400 | 0 | 1 | 2 | 11 | 23 | 29 | 32 | 34 | 34 | 34 | 100 |
| 18... | 1405 | 0 | 0 | 1 | 3 | 9 | 19 | 32 | 52 | 79 | 100 | -- |
| 18... | 1410 | 0 | 1 | 14 | 80 | 99 | 100 | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 14... | 1225 | 0 | 0 | 2 | 5 | 9 | 20 | 46 | 77 | 100 | -- | -- |
| 14... | 1228 | 0 | 1 | 11 | 74 | 99 | 100 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | | |
| 21... | 1510 | 0 | 3 | 26 | 90 | 100 | -- | -- | -- | -- | -- | -- |
| 21... | 1515 | 0 | 0 | 4 | 33 | 85 | 96 | 98 | 100 | -- | -- | -- |
| 21... | 1520 | 0 | 0 | 1 | 4 | 13 | 37 | 53 | 66 | 82 | 100 | -- |
| 21... | 1525 | 0 | 0 | 1 | 2 | 3 | 7 | 19 | 38 | 73 | 100 | -- |
| 22... | 1533 | 0 | 2 | 16 | 82 | 100 | -- | -- | -- | -- | -- | -- |
| 22... | 1537 | 0 | 1 | 9 | 37 | 91 | 99 | 100 | -- | -- | -- | -- |
| 22... | 1541 | 0 | 1 | 3 | 7 | 16 | 51 | 82 | 97 | 100 | -- | -- |
| 22... | 1543 | 0 | 0 | 1 | 1 | 2 | 7 | 28 | 68 | 97 | 100 | -- |
| 22... | 1550 | 0 | 2 | 6 | 9 | 10 | 10 | 11 | 15 | 34 | 100 | -- |
| 25... | 1220 | 0 | 1 | 13 | 83 | 100 | -- | -- | -- | -- | -- | -- |
| 25... | 1225 | 0 | 1 | 9 | 48 | 97 | 100 | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | |
| 05... | 1345 | 0 | 0 | 3 | 21 | 67 | 91 | 97 | 98 | 100 | -- | -- |
| 14... | 1437 | 0 | 1 | 12 | 73 | 99 | 100 | -- | -- | -- | -- | -- |
| 14... | 1448 | 0 | 0 | 0 | 2 | 6 | 10 | 14 | 17 | 27 | 42 | 100 |
| 28... | 1337 | 0 | 1 | 7 | 46 | 97 | 99 | 100 | -- | -- | -- | -- |
| 28... | 1342 | 0 | 0 | 2 | 15 | 54 | 81 | 89 | 94 | 98 | 100 | -- |
| 28... | 1348 | 0 | 0 | 0 | 2 | 2 | 3 | 7 | 16 | 36 | 70 | 100 |
| SEP | | | | | | | | | | | | |
| 03... | 1240 | 0 | 0 | 5 | 52 | 93 | 99 | 100 | -- | -- | -- | -- |
| 03... | 1245 | 0 | 0 | 4 | 21 | 35 | 45 | 54 | 63 | 73 | 83 | 100 |
| 03... | 1250 | 0 | 0 | 2 | 24 | 72 | 91 | 96 | 99 | 100 | -- | -- |

## 14243000 COWLITZ RIVER AT CASTLE ROCK, WA

**LOCATION.**--Lat 46°16′30″, long 122°54′48″, in SW ¼ SE ¼ sec. 10, T.9 N., R.2 W., Cowlitz County, Hydrologic Unit 17080005, on left bank 40 ft downstream from Arkansas Valley Road bridge in Castle Rock, 2.7 mi downstream from Toutle River, and at mile 17.3.

**DRAINAGE AREA.**--2,238 $mi^2$, of which approximately 21 $mi^2$ is noncontributing. Prior to July 7, 1981, the noncontributing portion was approximately 40 $mi^2$.

**PERIOD OF SEDIMENT DATA.**--May 1980 to September 1984.

**GAGE.**--Water-stage recorder. Datum of gage is 20.20 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 18, 1933, nonrecording gage at site 2 mi upstream at datum 14.93 ft higher. Dec. 18, 1933, to June 13, 1934, nonrecording gage, and June 14 to Sept. 30, 1934, water-stage recorder, at present site at datum 5.0 ft higher. Oct. 1, 1934, to May 21, 1980, water-stage recorder, on right bank at present site and datum.

**MAXIMUM MEASURED SUSPENDED-SEDIMENT CONCENTRATION.--**

| Water Year | Date | Time | Suspended-sediment concentration, $mgL^{-1}$ |
|---|---|---|---|
| 1981 | Dec. 26, 1980 | 0730 | 47,200 |
| 1982 | Feb. 20, 1982 | 1355 | 43,200 |
| 1982 | Mar. 20, 1982 | 0335 | 157,000 |
| 1983 | Dec. 3, 1982 | 1920 | 33,800 |
| 1984 | Nov. 3, 1983 | 1340 | 41,700 |

14243000 COWLITZ RIVER AT CASTLE ROCK, WA

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 4,620 | --- | 15,000 | 4,970 | --- | 15,000 | 17,600 | --- | 65,000 |
| 2 | 4,490 | --- | 15,000 | 5,880 | --- | 20,000 | 13,900 | 1,140 | 42,800 |
| 3 | 4,550 | 1,160 | 14,300 | 10,800 | 21,000 | 757,000 | 10,800 | --- | 35,000 |
| 4 | 4,620 | 1,070 | 13,300 | 14,800 | 18,200 | 727,000 | 10,500 | --- | 35,000 |
| 5 | 4,490 | 1,030 | 12,500 | 13,000 | --- | 250,000 | 12,100 | 1,380 | 45,100 |
| 6 | 4,620 | 947 | 11,800 | 12,300 | --- | 190,000 | 12,700 | 1,470 | 50,400 |
| 7 | 4,570 | --- | 10,000 | 12,400 | 5,520 | 185,000 | 12,800 | 1,150 | 39,700 |
| 8 | 4,520 | --- | 10,000 | 14,200 | 5,160 | 198,000 | 17,500 | 1,400 | 66,100 |
| 9 | 4,220 | --- | 9,000 | 13,900 | 4,260 | 160,000 | 19,100 | --- | 80,000 |
| 10 | 4,520 | 643 | 7,850 | 14,400 | --- | 180,000 | 21,700 | --- | 200,000 |
| 11 | 4,290 | --- | 8,000 | 16,300 | --- | 240,000 | 19,600 | --- | 110,000 |
| 12 | 4,150 | 560 | 6,270 | 15,400 | --- | 230,000 | 15,800 | 1,400 | 59,700 |
| 13 | 4,340 | 568 | 6,660 | 16,900 | --- | 330,000 | 17,700 | --- | 85,000 |
| 14 | 4,490 | --- | 7,000 | 23,200 | 7,480 | 469,000 | 18,200 | 2,210 | 109,000 |
| 15 | 4,490 | --- | 7,500 | 27,200 | --- | 400,000 | 20,100 | --- | 110,000 |
| 16 | 4,520 | --- | 7,500 | 37,500 | 5,050 | 511,000 | 19,400 | --- | 100,000 |
| 17 | 4,570 | 649 | 8,010 | 46,400 | 5,650 | 708,000 | 18,700 | --- | 85,000 |
| 18 | 4,680 | --- | 8,000 | 47,000 | 4,610 | 585,000 | 14,500 | --- | 60,000 |
| 19 | 4,700 | 784 | 9,950 | 36,400 | --- | 280,000 | 13,700 | --- | 50,000 |
| 20 | 4,600 | 568 | 7,050 | 36,800 | --- | 330,000 | 13,000 | --- | 45,000 |
| 21 | 4,490 | 524 | 6,350 | 30,600 | 2,490 | 206,000 | 16,500 | --- | 50,000 |
| 22 | 5,060 | --- | 8,500 | 20,800 | --- | 120,000 | 16,000 | --- | 40,000 |
| 23 | 5,080 | --- | 9,500 | 20,300 | 1,880 | 103,000 | 15,900 | 747 | 32,100 |
| 24 | 4,760 | --- | 10,000 | 26,600 | 2,380 | 171,000 | 14,200 | --- | 30,000 |
| 25 | 4,680 | --- | 10,000 | 27,200 | 3,200 | 235,000 | 10,800 | --- | 20,000 |
| 26 | 4,680 | 968 | 12,200 | 24,400 | --- | 150,000 | 8,700 | --- | 15,000 |
| 27 | 4,570 | --- | 10,000 | 23,900 | --- | 140,000 | 8,350 | --- | 15,000 |
| 28 | 4,600 | --- | 10,000 | 21,000 | 2,060 | 117,000 | 8,060 | 751 | 16,300 |
| 29 | 4,420 | --- | 10,000 | 19,900 | --- | 95,000 | 9,670 | --- | 35,000 |
| 30 | 4,470 | --- | 10,000 | 18,000 | --- | 70,000 | 16,300 | 4,390 | 193,000 |
| 31 | 5,220 | --- | 15,000 | --- | --- | --- | 10,200 | --- | 40,000 |
| TOTAL | 142,080 | --- | 306,240 | 652,450 | -- | 8,172,000 | 454,080 | --- | 1,959,200 |
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | 8,770 | --- | 25,000 | 9,700 | 3,240 | 84,900 | 10,000 | 951 | 25,700 |
| 2 | 9,530 | --- | 65,000 | 8,510 | 3,290 | 75,600 | 10,200 | --- | 25,000 |
| 3 | 15,800 | 8,050 | 435,000 | 8,970 | 2,480 | 60,100 | 9,900 | --- | 25,000 |
| 4 | 19,800 | --- | 300,000 | 8,970 | 2,850 | 69,000 | 9,390 | --- | 25,000 |
| 5 | 15,400 | 4,880 | 203,000 | 8,900 | 2,930 | 70,400 | 9,260 | --- | 25,000 |
| 6 | 12,500 | 4,520 | 153,000 | 8,740 | 2,350 | 55,500 | 9,360 | 1,080 | 27,300 |
| 7 | 11,400 | --- | 120,000 | 8,640 | --- | 45,000 | 8,440 | 1,150 | 26,200 |
| 8 | 10,800 | --- | 85,000 | 8,250 | --- | 35,000 | 8,250 | --- | 25,000 |
| 9 | 10,100 | 2,290 | 62,400 | 8,510 | --- | 35,000 | 6,890 | 1,500 | 27,900 |
| 10 | 9,660 | --- | 70,000 | 8,670 | 1,610 | 37,700 | 6,890 | --- | 30,000 |
| 11 | 10,200 | 3,140 | 86,500 | 9,390 | --- | 45,000 | 7,000 | --- | 30,000 |
| 12 | 12,000 | --- | 95,000 | 14,400 | --- | 150,000 | 8,870 | 1,640 | 39,300 |
| 13 | 13,800 | --- | 85,000 | 18,600 | 3,640 | 183,000 | 11,000 | 1,280 | 38,000 |
| 14 | 13,900 | --- | 90,000 | 15,500 | 2,650 | 111,000 | 10,800 | --- | 40,000 |
| 15 | 15,100 | --- | 90,000 | 15,100 | 3,630 | 148,000 | 11,600 | --- | 50,000 |
| 16 | 16,300 | 1,540 | 67,800 | 14,100 | --- | 130,000 | 10,900 | --- | 50,000 |
| 17 | 16,300 | 1,690 | 74,400 | 13,400 | 3,130 | 113,000 | 11,300 | --- | 50,000 |
| 18 | 13,600 | 1,080 | 39,700 | 11,500 | --- | 90,000 | 11,300 | --- | 60,000 |
| 19 | 12,800 | 859 | 29,700 | 11,100 | --- | 80,000 | 11,100 | --- | 60,000 |
| 20 | 12,100 | 1,050 | 34,300 | 11,600 | 2,460 | 77,000 | 11,400 | 2,110 | 64,900 |
| 21 | 14,700 | --- | 45,000 | 13,000 | 4,400 | 154,000 | 14,000 | 4,310 | 163,000 |
| 22 | 16,000 | --- | 45,000 | 13,000 | 2,460 | 86,300 | 14,000 | 9,420 | 356,000 |
| 23 | 17,900 | 1,840 | 98,300 | 12,700 | --- | 75,000 | 13,100 | 6,740 | 238,000 |
| 24 | 31,400 | 9,440 | 800,000 | 13,500 | 1,960 | 71,400 | 12,100 | --- | 100,000 |
| 25 | 31,500 | 9,610 | 817,000 | 12,000 | --- | 60,000 | 11,700 | --- | 80,000 |
| 26 | 23,700 | 5,890 | 377,000 | 11,500 | --- | 50,000 | 11,800 | --- | 100,000 |
| 27 | 18,900 | 3,660 | 187,000 | 11,300 | --- | 45,000 | 11,200 | 2,370 | 71,700 |
| 28 | 15,100 | --- | 150,000 | 11,400 | --- | 40,000 | 11,100 | 1,980 | 59,300 |
| 29 | 13,500 | --- | 120,000 | 11,400 | 1,240 | 38,200 | 11,000 | --- | 55,000 |
| 30 | 11,700 | 3,300 | 104,000 | --- | --- | --- | 10,200 | 1,650 | 45,400 |
| 31 | 11,100 | 2,930 | 87,800 | --- | --- | --- | 9,670 | --- | 40,000 |
| TOTAL | 465,360 | --- | 5,041,900 | 332,350 | --- | 2,315,100 | 323,720 | --- | 2,052,700 |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 8,740 | --- | 35,000 | 9,700 | --- | 40,000 | 14,200 | --- | 50,000 |
| 2 | 8,570 | --- | 30,000 | 12,300 | --- | 70,000 | 14,100 | --- | 45,000 |
| 3 | 8,800 | 1,400 | 33,300 | 12,700 | --- | 85,000 | 13,700 | --- | 40,000 |
| 4 | 8,870 | --- | 30,000 | 11,700 | 1,830 | 57,800 | 13,900 | --- | 40,000 |
| 5 | 8,570 | --- | 30,000 | 10,800 | --- | 50,000 | 14,000 | 1,030 | 38,900 |
| 6 | 8,570 | --- | 30,000 | 10,500 | --- | 40,000 | 13,000 | --- | 35,000 |
| 7 | 9,590 | --- | 35,000 | 9,950 | --- | 30,000 | 12,900 | --- | 35,000 |
| 8 | 11,300 | --- | 70,000 | 9,960 | --- | 30,000 | 13,000 | --- | 40,000 |
| 9 | 11,300 | 1,280 | 39,100 | 10,100 | --- | 30,000 | 12,400 | --- | 35,000 |
| 10 | 12,500 | --- | 45,000 | 10,500 | 1,060 | 30,100 | 12,200 | --- | 35,000 |
| 11 | 12,400 | --- | 45,000 | 10,300 | --- | 30,000 | 11,800 | --- | 35,000 |
| 12 | 12,600 | --- | 45,000 | 11,000 | --- | 30,000 | 11,500 | --- | 35,000 |
| 13 | 12,100 | --- | 45,000 | 10,800 | --- | 30,000 | 11,500 | --- | 35,000 |
| 14 | 11,300 | --- | 40,000 | 11,400 | 2,180 | 72,800 | 11,400 | 1,180 | 36,300 |
| 15 | 10,800 | --- | 40,000 | 11,100 | --- | 100,000 | 12,500 | --- | 50,000 |
| 16 | 10,100 | --- | 35,000 | 10,800 | --- | 70,000 | 13,000 | --- | 45,000 |
| 17 | 9,460 | 1,220 | 31,200 | 10,300 | --- | 60,000 | 13,000 | --- | 40,000 |
| 18 | 9,160 | --- | 30,000 | 10,100 | --- | 50,000 | 12,700 | --- | 40,000 |
| 19 | 8,830 | --- | 25,000 | 10,200 | --- | 45,000 | 11,400 | --- | 35,000 |
| 20 | 8,670 | --- | 25,000 | 10,600 | --- | 40,000 | 11,500 | 4,030 | 125,000 |
| 21 | 8,370 | --- | 20,000 | 10,500 | --- | 35,000 | 13,600 | --- | 200,000 |
| 22 | 8,280 | --- | 20,000 | 10,800 | --- | 45,000 | 13,400 | --- | 150,000 |
| 23 | 8,310 | --- | 20,000 | 12,700 | 3,170 | 109,000 | 12,900 | --- | 100,000 |
| 24 | 8,630 | --- | 20,000 | 12,800 | --- | 85,000 | 12,900 | --- | 100,000 |
| 25 | 8,570 | 926 | 21,400 | 13,600 | --- | 90,000 | 13,200 | --- | 100,000 |
| 26 | 8,440 | --- | 20,000 | 15,000 | --- | 100,000 | 13,000 | --- | 90,000 |
| 27 | 8,120 | --- | 20,000 | 14,500 | --- | 85,000 | 12,800 | --- | 80,000 |
| 28 | 7,850 | --- | 20,000 | 14,100 | --- | 75,000 | 12,600 | 2,090 | 71,100 |
| 29 | 8,030 | --- | 20,000 | 12,800 | 1,540 | 53,200 | 13,300 | --- | 80,000 |
| 30 | 8,370 | --- | 20,000 | 13,800 | --- | 60,000 | 13,300 | --- | 70,000 |
| 31 | --- | --- | --- | 14,200 | --- | 55,000 | --- | --- | --- |
| TOTAL | 285,200 | --- | 940,000 | 359,610 | --- | 1,782,900 | 384,700 | --- | 1,911,300 |
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 10,900 | --- | 55,000 | 5,520 | --- | 7,000 | 3,400 | --- | 1,000 |
| 2 | 9,290 | --- | 45,000 | 4,900 | --- | 5,500 | 3,130 | --- | 950 |
| 3 | 10,200 | --- | 50,000 | 4,650 | --- | 4,500 | 3,080 | --- | 950 |
| 4 | 9,330 | --- | 40,000 | 4,450 | --- | 4,000 | 3,140 | 112 | 950 |
| 5 | 9,160 | 1,350 | 33,400 | 4,270 | --- | 3,500 | 3,500 | --- | 1,500 |
| 6 | 8,970 | --- | 30,000 | 4,650 | --- | 3,500 | 3,810 | --- | 1,500 |
| 7 | 9,060 | --- | 30,000 | 4,690 | --- | 3,000 | 3,810 | --- | 1,500 |
| 8 | 9,490 | --- | 35,000 | 4,000 | 158 | 1,710 | 3,730 | --- | 1,500 |
| 9 | 9,490 | --- | 30,000 | 4,000 | --- | 1,500 | 3,450 | --- | 1,500 |
| 10 | 7,540 | 1,030 | 21,000 | 4,000 | --- | 1,500 | 3,380 | --- | 1,500 |
| 11 | 6,770 | --- | 20,000 | 3,500 | --- | 1,500 | 3,590 | 261 | 2,530 |
| 12 | 6,690 | --- | 20,000 | 3,500 | --- | 1,500 | 3,770 | --- | 2,500 |
| 13 | 6,600 | --- | 20,000 | 3,500 | --- | 1,500 | 3,690 | --- | 2,500 |
| 14 | 6,520 | --- | 20,000 | 3,500 | --- | 1,500 | 3,550 | --- | 2,500 |
| 15 | 6,440 | --- | 20,000 | 3,500 | --- | 1,500 | 3,370 | --- | 2,500 |
| 16 | 6,410 | --- | 20,000 | 4,130 | --- | 2,000 | 3,170 | --- | 2,000 |
| 17 | 6,350 | --- | 20,000 | 4,000 | --- | 2,000 | 3,230 | --- | 2,000 |
| 18 | 6,320 | --- | 20,000 | 4,180 | --- | 2,000 | 3,390 | --- | 2,000 |
| 19 | 6,240 | 1100 | 18,500 | 3,500 | --- | 1,500 | 3,270 | --- | 2,000 |
| 20 | 6,240 | --- | 20,000 | 3,500 | --- | 1,500 | 3,090 | --- | 2,000 |
| 21 | 6,220 | --- | 15,000 | 3,900 | 128 | 1,350 | 3,130 | --- | 2,000 |
| 22 | 6,220 | --- | 15,000 | 4,230 | --- | 1,500 | 3,440 | --- | 2,500 |
| 23 | 6,220 | --- | 15,000 | 4,000 | --- | 1,500 | 3,670 | --- | 2,500 |
| 24 | 6,190 | --- | 15,000 | 4,170 | --- | 1,500 | 3,500 | --- | 2,500 |
| 25 | 6,220 | --- | 15,000 | 3,840 | --- | 1,500 | 4,160 | --- | 2,500 |
| 26 | 6,240 | 730 | 12,300 | 3,460 | --- | 1,000 | 4,240 | 246 | 2,820 |
| 27 | 6,190 | --- | 10,000 | 3,760 | --- | 1,500 | 4,300 | --- | 3,000 |
| 28 | 6,160 | --- | 10,000 | 4,130 | --- | 1,500 | 4,190 | --- | 2,500 |
| 29 | 6,130 | --- | 10,000 | 4,080 | --- | 1,500 | 4,220 | --- | 2,500 |
| 30 | 6,130 | --- | 9,000 | 3,770 | --- | 1,500 | 4,240 | --- | 2,500 |
| 31 | 6,130 | --- | 8,500 | 4,070 | --- | 1,500 | --- | --- | --- |
| TOTAL | 226,060 | --- | 702,700 | 125,350 | --- | 68,060 | 107,640 | --- | 60,700 |
| YEAR | 3,858,600 | | 25,312,800 | TONS | | | | | |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. FALL DIAM. % FINER THAN .002 MM | SED. SUSP. FALL DIAM. % FINER THAN .004 MM | SED. SUSP. FALL DIAM. % FINER THAN .008 MM | SED. SUSP. FALL DIAM. % FINER THAN .016 MM | SED. SUSP. FALL DIAM. % FINER THAN .031 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 03... | 1210 | 13.0 | 4,630 | 20.0 | 1,160 | 14,500 | -- | -- | -- | -- | -- |
| 05... | 1050 | 12.5 | 4,660 | 20.0 | 1,030 | 13,000 | -- | -- | -- | -- | -- |
| 13... | 1230 | 12.0 | 4,370 | 20.0 | 568 | 6,700 | -- | -- | -- | -- | -- |
| 17... | 1045 | 12.5 | 4,540 | 20.0 | 649 | 7,960 | -- | -- | -- | -- | -- |
| 21... | 1140 | 12.0 | 4,410 | 20.0 | 524 | 6,240 | -- | -- | -- | -- | -- |
| 26... | 1205 | 12.0 | 4,600 | 20.0 | 968 | 12,000 | -- | -- | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 03... | 1340 | 13.0 | 11,500 | 20.0 | 41,700 | 1,290,000 | 14 | 20 | 31 | 50 | 64 |
| 03... | 2300 | -- | 16,800 | 20.0 | 34,100 | 1,550,000 | 10 | 16 | 22 | 35 | 52 |
| 04... | 1130 | 12.0 | 13,600 | 20.0 | 13,600 | 499,000 | 7 | 12 | 17 | 28 | 42 |
| 04... | 1310 | 12.0 | 13,500 | 20.0 | 14,400 | 525,000 | 9 | 10 | 13 | 24 | 37 |
| 07... | 1240 | 10.5 | 12,600 | 20.0 | 5,520 | 188,000 | -- | -- | -- | -- | -- |
| 14... | 1400 | 10.0 | 21,000 | 20.0 | 6,940 | 393,000 | -- | -- | -- | -- | -- |
| 16... | 1500 | 11.5 | 39,000 | 20.0 | 5,090 | 536,000 | -- | -- | -- | -- | -- |
| 17... | 1155 | 11.0 | 46,100 | 20.0 | 5,440 | 677,000 | -- | -- | -- | -- | -- |
| 17... | 1555 | 11.0 | 46,100 | 20.0 | 5,670 | 706,000 | -- | -- | -- | -- | -- |
| 18... | 1320 | 11.5 | 44,200 | 20.0 | 3,860 | 461,000 | -- | -- | -- | -- | -- |
| 21... | 1220 | 11.0 | 32,300 | 20.0 | 2,500 | 218,000 | -- | -- | -- | -- | -- |
| 25... | 1350 | 9.5 | 27,100 | 20.0 | 2,760 | 202,000 | -- | -- | -- | -- | -- |
| 28... | 1430 | 10.5 | 20,400 | 20.0 | 2,060 | 113,000 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 02... | 1210 | 8.0 | 12,300 | 20.0 | 1,140 | 37,900 | -- | -- | -- | -- | -- |
| 05... | 1210 | 9.0 | 12,500 | 20.0 | 1,380 | 46,600 | -- | -- | -- | -- | -- |
| 07... | 1315 | 8.0 | 12,600 | 20.0 | 1,110 | 37,800 | -- | -- | -- | -- | -- |
| 12... | 1235 | 8.5 | 15,000 | 20.0 | 1,400 | 56,700 | -- | -- | -- | -- | -- |
| 14... | 1225 | 9.0 | 18,700 | 20.0 | 2,210 | 112,000 | -- | -- | -- | -- | -- |
| 19... | 1235 | 7.0 | 13,700 | 20.0 | 922 | 34,100 | -- | -- | -- | -- | -- |
| 23... | 1120 | 4.0 | 15,800 | 20.0 | 747 | 31,900 | -- | -- | -- | -- | -- |
| 28... | 1535 | 5.0 | 8,310 | 20.0 | 751 | 16,900 | -- | -- | -- | -- | -- |
| 30... | 1510 | 6.0 | 14,600 | 20.0 | 2,130 | 84,000 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | SED. SUSP. FALL DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. FALL DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. FALL DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. FALL DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | |
| 03... | -- | 29 | -- | 45 | -- | 73 | -- | 89 | -- | 97 | 100 |
| 05... | -- | 41 | -- | 62 | -- | 91 | -- | 100 | -- | -- | -- |
| 13... | -- | 54 | -- | 77 | -- | 95 | -- | 99 | -- | 100 | -- |
| 17... | -- | 48 | -- | 62 | -- | 93 | -- | 98 | -- | 100 | -- |
| 21... | -- | 54 | -- | 77 | -- | 98 | -- | 100 | -- | -- | -- |
| 26... | -- | 45 | -- | 56 | -- | 75 | -- | 99 | -- | 100 | -- |
| NOV | | | | | | | | | | | |
| 03... | -- | 85 | -- | 94 | -- | 99 | -- | 100 | -- | -- | -- |
| 03... | -- | 72 | -- | 92 | -- | 99 | -- | 100 | -- | -- | -- |
| 04... | -- | 57 | -- | 80 | -- | 92 | -- | 97 | -- | 100 | -- |
| 04... | -- | 52 | -- | 76 | -- | 89 | -- | 95 | -- | 99 | 100 |
| 07... | 44 | 40 | 80 | -- | 98 | -- | 100 | -- | -- | -- | -- |
| 14... | -- | 33 | -- | 53 | -- | 83 | -- | 98 | -- | 100 | -- |
| 16... | -- | 49 | -- | 68 | -- | 90 | -- | 98 | -- | 100 | -- |
| 17... | -- | 48 | -- | 69 | -- | 90 | -- | 97 | -- | 100 | -- |
| 17... | -- | 36 | -- | 55 | -- | 76 | -- | 91 | -- | 99 | 99 |
| 18... | -- | 43 | -- | 65 | -- | 91 | -- | 99 | -- | 100 | -- |
| 21... | 29 | 27 | 48 | -- | 87 | -- | 99 | -- | 100 | -- | -- |
| 25... | 38 | 36 | 56 | -- | 84 | -- | 95 | -- | 100 | -- | -- |
| 28... | -- | 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 02... | -- | 44 | -- | 65 | -- | 90 | -- | 100 | -- | -- | -- |
| 05... | -- | 32 | -- | 48 | -- | 79 | -- | 97 | -- | 100 | -- |
| 07... | 23 | 28 | 33 | -- | 61 | -- | 86 | -- | 100 | -- | -- |
| 12... | -- | 26 | -- | 38 | -- | 67 | -- | 90 | -- | 98 | 100 |
| 14... | -- | 37 | -- | 53 | -- | 82 | -- | 97 | -- | 100 | -- |
| 19... | -- | 6 | -- | 9 | -- | 19 | -- | 85 | -- | 96 | 100 |
| 23... | 79 | 15 | 82 | -- | 94 | -- | 99 | -- | 100 | -- | -- |
| 28... | -- | 48 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | 65 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE | TIME | TEMPERATURE WATER (DEG C) | DISCHARGE, INST. CUBIC FEET PER SECOND | SAMPLING METHOD, CODES | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM | SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM | SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | | | |
| 03... | 1525 | 9.0 | 20,200 | 20.0 | 20,700 | 1,130,000 | 73 | -- | -- | -- | -- | -- |
| 06... | 1215 | 9.0 | 12,000 | 20.0 | 4,520 | 146,000 | 46 | 64 | 84 | 91 | 96 | 100 |
| 09... | 1240 | 8.0 | 10,000 | 20.0 | 4,320 | 117,000 | 28 | 44 | 80 | 99 | 99 | 100 |
| 11... | 1215 | 8.0 | 10,200 | 20.0 | 3,140 | 86,500 | 33 | -- | -- | -- | -- | -- |
| 17... | 1230 | 7.0 | 16,200 | 20.0 | 1,690 | 73,900 | 25 | 38 | 66 | 98 | 100 | -- |
| 20... | 1345 | 3.0 | 16,200 | 20.0 | 2,000 | 87,500 | 12 | 17 | 29 | 58 | 93 | 100 |
| 23... | 1250 | 6.0 | 16,600 | 20.0 | 1,130 | 50,600 | 43 | 56 | 75 | 96 | 100 | -- |
| 24... | 1415 | 8.0 | 32,000 | 20.0 | 10,300 | 890,000 | 49 | 73 | 89 | 93 | 97 | 100 |
| 25... | 1320 | 9.0 | 34,100 | 20.0 | 11,000 | 1,010,000 | 50 | 71 | 88 | 96 | 99 | 100 |
| 26... | 1250 | 6.0 | 23,400 | 20.0 | 5,870 | 371,000 | 42 | -- | -- | -- | -- | -- |
| 27... | 1220 | 6.0 | 19,100 | 20.0 | 3,660 | 189,000 | 44 | 61 | 94 | 99 | 100 | -- |
| 31... | 1235 | 5.5 | 10,800 | 20.0 | 2,930 | 85,400 | 39 | 58 | 93 | 100 | -- | -- |
| FEB | | | | | | | | | | | | |
| 05... | 1205 | 7.0 | 8,500 | 20.0 | 2,930 | 67,200 | 43 | 59 | 88 | 98 | 98 | 98 |
| 14... | 1225 | 6.0 | 14,700 | 20.0 | 2,410 | 95,700 | 38 | 59 | 84 | 97 | 100 | -- |
| 22... | 1510 | 5.5 | 12,600 | 20.0 | 2,460 | 83,700 | 16 | 22 | 39 | 74 | 99 | 100 |
| 24... | 1310 | 5.5 | 13,200 | 20.0 | 1,960 | 69,900 | 21 | 35 | 44 | 61 | 93 | 100 |
| 29... | 1455 | 6.5 | 10,200 | 20.0 | 1,240 | 34,100 | 36 | 50 | 81 | 97 | 100 | -- |
| MAR | | | | | | | | | | | | |
| 01... | 1545 | 7.0 | 10,100 | 20.0 | 1,800 | 49,100 | 17 | 22 | 35 | 67 | 98 | 100 |
| 07... | 1110 | 6.0 | 8,740 | 20.0 | 1,150 | 27,100 | 49 | 68 | 84 | 98 | 100 | -- |
| 13... | 1510 | 7.5 | 11,500 | 20.0 | 1,280 | 39,700 | 44 | -- | -- | -- | -- | -- |
| 20... | 1325 | 9.0 | 11,100 | 20.0 | 2,110 | 63,200 | 14 | 20 | 31 | 61 | 93 | 100 |
| 26... | 1500 | 8.0 | 12,400 | 20.0 | 3,140 | 105,000 | 32 | 43 | 59 | 80 | 94 | 98 |
| APR | | | | | | | | | | | | |
| 03... | 1200 | 7.0 | 7,810 | 20.0 | 1,400 | 29,500 | 32 | 42 | 65 | 85 | 95 | 100 |
| 09... | 1255 | 7.0 | 10,300 | 20.0 | 1,280 | 35,600 | 34 | 51 | 83 | 98 | 100 | -- |
| 17... | 1215 | 7.0 | 9,330 | 20.0 | 1,220 | 30,700 | 51 | 67 | 90 | 99 | 100 | -- |
| 25... | 1425 | 8.0 | 8,510 | 20.0 | 926 | 21,300 | 14 | 18 | 30 | 60 | 97 | 100 |
| MAY | | | | | | | | | | | | |
| 04... | 1145 | 7.5 | 11,500 | 20.0 | 1,830 | 56,800 | 37 | 52 | 76 | 89 | 98 | 100 |
| 10... | 1405 | 9.0 | 10,300 | 20.0 | 1,060 | 29,500 | 34 | -- | -- | -- | -- | -- |
| 23... | 1230 | 9.0 | 12,700 | 20.0 | 2,770 | 95,000 | 47 | -- | -- | -- | -- | -- |
| 29... | 1140 | 10.0 | 12,400 | 20.0 | 1,540 | 51,600 | 42 | 61 | 84 | 98 | 100 | -- |
| JUN | | | | | | | | | | | | |
| 05... | 1130 | 9.0 | 13,800 | 20.0 | 1,030 | 38,400 | 36 | -- | -- | -- | -- | -- |
| 14... | 1340 | 10.0 | 11,500 | 20.0 | 1,180 | 36,600 | 38 | 56 | 66 | 88 | 99 | 100 |
| 20... | 1450 | 11.0 | 12,000 | 20.0 | 3,960 | 128,000 | 48 | -- | -- | -- | -- | -- |
| 28... | 1255 | 12.0 | 12,500 | 20.0 | 2,090 | 70,500 | 10 | 14 | 24 | 65 | 96 | 100 |
| JUL | | | | | | | | | | | | |
| 05... | 1335 | 15.0 | 9,630 | 20.0 | 1,350 | 35,100 | 30 | -- | -- | -- | -- | -- |
| 10... | 1430 | 12.0 | 7,600 | 20.0 | 1,030 | 21,100 | 23 | 33 | 46 | 75 | 97 | 100 |
| 19... | 1310 | 13.0 | 6,350 | 20.0 | 1,100 | 18,900 | 23 | 32 | 48 | 86 | 100 | -- |
| 26... | 1300 | 13.0 | 6,300 | 20.0 | 1,310 | 22,300 | 16 | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 08... | 1345 | 16.0 | 3,940 | 20.0 | 1,550 | 16,500 | 25 | 39 | 74 | 95 | 100 | -- |
| 21... | 1310 | 16.0 | 3,530 | 20.0 | 584 | 5,570 | 1 | 2 | 5 | 40 | 90 | 98 |
| SEP | | | | | | | | | | | | |
| 04... | 1425 | 15.5 | 3,070 | 20.0 | 112 | 928 | 20 | 38 | 81 | 100 | -- | -- |
| 11... | 1345 | 13.0 | 3,790 | 20.0 | 261 | 2,670 | 3 | 6 | 15 | 60 | 98 | 100 |
| 26... | 1225 | 12.0 | 4,200 | 20.0 | 246 | 2,790 | 13 | 23 | 61 | 94 | 100 | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 | BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1230 | 0 | 1 | 4 | 39 | 94 | 99 | 100 | -- | -- | -- | -- |
| 03... | 1235 | 0 | 0 | 2 | 22 | 70 | 90 | 94 | 97 | 99 | 100 | -- |
| 03... | 1240 | 0 | 0 | 3 | 17 | 50 | 77 | 87 | 92 | 94 | 100 | -- |
| 03... | 1245 | 0 | 3 | 60 | 98 | 100 | -- | -- | -- | -- | -- | -- |
| 03... | 1250 | 0 | 0 | 6 | 31 | 90 | 99 | 100 | -- | -- | -- | -- |
| 05... | 1110 | 2 | 10 | 44 | 95 | 100 | -- | -- | -- | -- | -- | -- |
| 05... | 1115 | 0 | 1 | 15 | 46 | 79 | 90 | 93 | 95 | 100 | -- | -- |
| 05... | 1120 | 0 | 0 | 1 | 2 | 4 | 5 | 7 | 9 | 12 | 12 | 100 |
| 05... | 1125 | 0 | 1 | 29 | 85 | 98 | 99 | 100 | -- | -- | -- | -- |
| 05... | 1130 | 0 | 1 | 18 | 84 | 99 | 100 | -- | -- | -- | -- | -- |
| 13... | 1250 | 0 | 3 | 10 | 20 | 44 | 63 | 69 | 73 | 79 | 79 | 100 |
| 13... | 1255 | 0 | 1 | 2 | 7 | 12 | 17 | 20 | 34 | 78 | 100 | -- |
| 13... | 1300 | 0 | 1 | 16 | 72 | 97 | 100 | -- | -- | -- | -- | -- |
| 13... | 1305 | 0 | 1 | 17 | 58 | 92 | 99 | 100 | -- | -- | -- | -- |
| 17... | 1110 | 0 | 2 | 6 | 10 | 23 | 35 | 46 | 52 | 86 | 100 | -- |
| 17... | 1115 | 0 | 0 | 15 | 55 | 96 | 100 | -- | -- | -- | -- | -- |
| 17... | 1120 | 0 | 1 | 14 | 30 | 50 | 58 | 61 | 71 | 86 | 100 | -- |
| 17... | 1125 | 0 | 1 | 20 | 54 | 95 | 100 | -- | -- | -- | -- | -- |
| 26... | 1220 | 0 | 1 | 15 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 26... | 1225 | 0 | 1 | 16 | 85 | 94 | 98 | 99 | 99 | 100 | -- | -- |
| 26... | 1230 | 0 | 0 | 13 | 86 | 98 | 100 | -- | -- | -- | -- | -- |
| 26... | 1235 | 0 | 0 | 9 | 47 | 72 | 88 | 92 | 94 | 95 | 100 | -- |
| 26... | 1240 | 0 | 1 | 9 | 36 | 71 | 93 | 99 | 100 | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 03... | 1410 | 2 | 7 | 38 | 98 | 100 | 100 | -- | -- | -- | -- | -- |
| 03... | 1415 | 1 | 4 | 10 | 61 | 96 | 99 | 100 | -- | -- | -- | -- |
| 03... | 1420 | 3 | 8 | 42 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 03... | 1425 | 1 | 4 | 16 | 81 | 99 | 100 | -- | -- | -- | -- | -- |
| 03... | 1430 | 1 | 3 | 11 | 59 | 98 | 100 | -- | -- | -- | -- | -- |
| 04... | 0155 | 3 | 18 | 54 | 92 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 0205 | 1 | 5 | 25 | 73 | 94 | 98 | 99 | 99 | 100 | -- | -- |
| 04... | 0210 | 1 | 8 | 28 | 80 | 99 | 100 | -- | -- | -- | -- | -- |
| 04... | 0230 | 2 | 6 | 21 | 89 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 0240 | 2 | 6 | 15 | 73 | 99 | 100 | -- | -- | -- | -- | -- |
| 04... | 1209 | 1 | 3 | 7 | 47 | 83 | 89 | 92 | 95 | 98 | 100 | -- |
| 04... | 1212 | 2 | 9 | 28 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 1214 | 1 | 10 | 38 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 04... | 1219 | 0 | 2 | 11 | 57 | 91 | 98 | 98 | 99 | 100 | -- | -- |
| 04... | 1222 | 2 | 18 | 53 | 83 | 96 | 99 | 100 | -- | -- | -- | -- |
| 07... | 1255 | 0 | 3 | 12 | 34 | 81 | 97 | 99 | 100 | -- | -- | -- |
| 07... | 1259 | 1 | 6 | 36 | 94 | 100 | -- | -- | -- | -- | -- | -- |
| 07... | 1301 | 1 | 11 | 50 | 96 | 100 | -- | -- | -- | -- | -- | -- |
| 07... | 1303 | 1 | 10 | 55 | 94 | 99 | 100 | -- | -- | -- | -- | -- |
| 07... | 1305 | 2 | 19 | 76 | 97 | 100 | -- | -- | -- | -- | -- | -- |
| 14... | 1426 | 0 | 1 | 4 | 25 | 76 | 90 | 93 | 94 | 95 | 100 | -- |
| 14... | 1430 | 0 | 2 | 13 | 55 | 85 | 93 | 95 | 97 | 100 | -- | -- |
| 14... | 1433 | 0 | 4 | 24 | 91 | 100 | -- | -- | -- | -- | -- | -- |
| 14... | 1439 | 0 | 5 | 37 | 94 | 100 | -- | -- | -- | -- | -- | -- |
| 14... | 1441 | 1 | 10 | 73 | 100 | -- | -- | -- | -- | -- | -- | -- |
| 16... | 1355 | 0 | 4 | 28 | 93 | 100 | -- | -- | -- | -- | -- | -- |
| 16... | 1536 | 0 | 1 | 2 | 3 | 18 | 56 | 75 | 84 | 91 | 100 | -- |
| 16... | 1540 | 0 | 2 | 10 | 34 | 70 | 80 | 82 | 84 | 86 | 86 | 100 |
| 18... | 1349 | 0 | 3 | 30 | 95 | 100 | -- | -- | -- | -- | -- | -- |
| 18... | 1350 | 0 | 1 | 11 | 49 | 87 | 96 | 98 | 100 | -- | -- | -- |
| 18... | 1357 | 0 | 1 | 6 | 43 | 94 | 99 | 100 | -- | -- | -- | -- |
| 18... | 1400 | 0 | 1 | 4 | 20 | 50 | 64 | 66 | 68 | 74 | 100 | -- |
| 18... | 1404 | 0 | 1 | 3 | 15 | 64 | 94 | 99 | 100 | -- | -- | -- |
| 21... | 1253 | 0 | 0 | 4 | 10 | 30 | 74 | 88 | 93 | 100 | -- | -- |
| 21... | 1256 | 0 | 1 | 11 | 44 | 96 | 100 | -- | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | |
| 21... | 1259 | 0 | 3 | 37 | 93 | 99 | 99 | 100 | -- | -- | -- |
| 21... | 1302 | 0 | 2 | 31 | 85 | 99 | 99 | 99 | 100 | -- | -- |
| 21... | 1304 | 0 | 2 | 36 | 99 | 100 | -- | -- | -- | -- | -- |
| 25... | 1413 | 0 | 3 | 29 | 96 | 100 | -- | -- | -- | -- | -- |
| 25... | 1415 | 0 | 2 | 18 | 74 | 91 | 95 | 95 | 95 | 95 | 100 |
| 25... | 1420 | 0 | 3 | 31 | 87 | 98 | 100 | -- | -- | -- | -- |
| 25... | 1425 | 0 | 1 | 14 | 51 | 90 | 97 | 98 | 99 | 100 | -- |
| 25... | 1428 | 0 | 3 | 51 | 98 | 100 | -- | -- | -- | -- | -- |
| 28... | 1502 | 0 | 1 | 6 | 36 | 85 | 92 | 93 | 94 | 96 | 100 |
| 28... | 1505 | 0 | 1 | 17 | 93 | 99 | 100 | -- | -- | -- | -- |
| 28... | 1507 | 0 | 2 | 24 | 92 | 100 | -- | -- | -- | -- | -- |
| 28... | 1511 | 0 | 0 | 3 | 27 | 75 | 97 | 99 | 100 | -- | -- |
| 28... | 1513 | 0 | 1 | 17 | 95 | 100 | -- | -- | -- | -- | -- |
| DEC | | | | | | | | | | | |
| 02... | 1233 | 0 | 1 | 11 | 72 | 96 | 99 | 100 | -- | -- | -- |
| 02... | 1235 | 0 | 1 | 13 | 85 | 100 | -- | -- | -- | -- | -- |
| 02... | 1237 | 0 | 1 | 16 | 58 | 89 | 98 | 99 | 100 | -- | -- |
| 02... | 1241 | 0 | 1 | 20 | 87 | 100 | -- | -- | -- | -- | -- |
| 05... | 1138 | 0 | 1 | 3 | 8 | 15 | 24 | 29 | 35 | 45 | 100 |
| 05... | 1144 | 0 | 2 | 12 | 46 | 59 | 64 | 69 | 78 | 96 | 100 |
| 05... | 1148 | 0 | 1 | 4 | 36 | 88 | 96 | 97 | 97 | 100 | -- |
| 07... | 1358 | 0 | 0 | 2 | 17 | 87 | 96 | 97 | 98 | 100 | -- |
| 07... | 1402 | 0 | 2 | 26 | 86 | 100 | -- | -- | -- | -- | -- |
| 07... | 1406 | 0 | 1 | 21 | 84 | 100 | -- | -- | -- | -- | -- |
| 07... | 1410 | 0 | 1 | 25 | 91 | 100 | -- | -- | -- | -- | -- |
| 07... | 1414 | 0 | 0 | 3 | 43 | 95 | 98 | 98 | 98 | 100 | -- |
| 12... | 1200 | 0 | 0 | 7 | 70 | 99 | 100 | -- | -- | -- | -- |
| 12... | 1204 | 0 | 1 | 7 | 30 | 73 | 94 | 98 | 99 | 100 | -- |
| 12... | 1209 | 0 | 1 | 16 | 55 | 94 | 99 | 100 | -- | -- | -- |
| 12... | 1213 | 0 | 1 | 7 | 40 | 93 | 99 | 100 | -- | -- | -- |
| 12... | 1220 | 0 | 1 | 2 | 3 | 17 | 66 | 84 | 91 | 100 | -- |
| 14... | 1309 | 0 | 0 | 6 | 32 | 90 | 99 | 99 | 100 | -- | -- |
| 14... | 1317 | 0 | 0 | 6 | 36 | 81 | 90 | 93 | 96 | 97 | 100 |
| 14... | 1321 | 0 | 1 | 9 | 58 | 97 | 100 | -- | -- | -- | -- |
| 14... | 1328 | 0 | 1 | 10 | 38 | 67 | 83 | 88 | 92 | 99 | 100 |
| 14... | 1332 | 0 | 0 | 1 | 4 | 38 | 90 | 96 | 98 | 100 | -- |
| 19... | 1212 | 0 | 0 | 3 | 35 | 93 | 97 | 98 | 98 | 100 | -- |
| 19... | 1215 | 0 | 0 | 7 | 35 | 72 | 91 | 96 | 99 | 100 | -- |
| 19... | 1221 | 0 | 0 | 7 | 33 | 61 | 81 | 87 | 92 | 100 | -- |
| 19... | 1224 | 0 | 1 | 7 | 48 | 89 | 98 | 99 | 100 | -- | -- |
| 19... | 1226 | 0 | 1 | 2 | 4 | 25 | 78 | 95 | 99 | 100 | -- |
| 28... | 1605 | 0 | 1 | 5 | 12 | 37 | 69 | 80 | 85 | 90 | 100 |
| 28... | 1608 | 0 | 1 | 10 | 47 | 63 | 70 | 73 | 75 | 80 | 100 |
| 28... | 1610 | 0 | 2 | 25 | 68 | 85 | 91 | 93 | 95 | 99 | 100 |
| 28... | 1615 | 0 | 0 | 4 | 29 | 74 | 94 | 97 | 98 | 100 | -- |
| 28... | 1617 | 0 | 1 | 6 | 52 | 99 | 100 | -- | -- | -- | -- |
| 30... | 1553 | 0 | 0 | 2 | 24 | 51 | 81 | 91 | 94 | 95 | 100 |
| 30... | 1557 | 0 | 1 | 5 | 30 | 38 | 46 | 52 | 58 | 71 | 100 |
| 30... | 1600 | 0 | 1 | 8 | 43 | 66 | 86 | 92 | 95 | 98 | 100 |
| 30... | 1605 | 0 | 0 | 6 | 58 | 94 | 99 | 99 | 100 | -- | -- |
| 30... | 1610 | 0 | 1 | 10 | 61 | 99 | 100 | -- | -- | -- | -- |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | | |
| 06... | 1233 | 0 | 1 | 5 | 30 | 84 | 99 | 100 | -- | -- | -- |
| 06... | 1234 | 0 | 1 | 3 | 5 | 14 | 48 | 62 | 68 | 80 | 100 |
| 06... | 1243 | 0 | 1 | 7 | 23 | 49 | 72 | 80 | 87 | 94 | 100 |
| 06... | 1246 | 0 | 1 | 6 | 40 | 80 | 89 | 90 | 92 | 94 | 100 |
| 06... | 1249 | 0 | 7 | 65 | 99 | 100 | -- | -- | -- | -- | -- |
| 09... | 1253 | 1 | 9 | 67 | 100 | -- | -- | -- | -- | -- | -- |
| 09... | 1256 | 0 | 4 | 62 | 97 | 98 | 99 | 99 | 100 | -- | -- |
| 09... | 1300 | 0 | 6 | 82 | 100 | -- | -- | -- | -- | -- | -- |
| 09... | 1303 | 1 | 21 | 97 | 100 | -- | -- | -- | -- | -- | -- |
| 09... | 1305 | 1 | 16 | 95 | 100 | -- | -- | -- | -- | -- | -- |
| 20... | 1402 | 0 | 0 | 2 | 17 | 78 | 97 | 98 | 98 | 100 | -- |
| 20... | 1405 | 0 | 1 | 13 | 78 | 99 | 100 | -- | -- | -- | -- |
| 20... | 1410 | 0 | 0 | 4 | 37 | 52 | 58 | 62 | 64 | 72 | 100 |
| 20... | 1414 | 0 | 1 | 15 | 86 | 100 | -- | -- | -- | -- | -- |
| 20... | 1417 | 0 | 0 | 4 | 58 | 95 | 99 | 100 | -- | -- | -- |
| 26... | 1300 | 0 | 2 | 7 | 8 | 9 | 23 | 46 | 66 | 81 | 100 |
| 26... | 1313 | 0 | 0 | 1 | 3 | 18 | 41 | 55 | 73 | 89 | 100 |
| 26... | 1314 | 0 | 1 | 6 | 26 | 79 | 98 | 99 | 100 | -- | -- |
| 26... | 1318 | 0 | 5 | 29 | 92 | 99 | 100 | -- | -- | -- | -- |
| 26... | 1320 | 0 | 3 | 24 | 87 | 99 | 99 | 100 | -- | -- | -- |
| 31... | 1257 | 0 | 2 | 18 | 95 | 98 | 98 | 98 | 98 | 98 | 100 |
| 31... | 1302 | 0 | 4 | 46 | 90 | 97 | 100 | -- | -- | -- | -- |
| 31... | 1305 | 0 | 7 | 51 | 93 | 100 | -- | -- | -- | -- | -- |
| 31... | 1310 | 0 | 4 | 43 | 72 | 93 | 98 | 99 | 100 | -- | -- |
| 31... | 1313 | 0 | 7 | 73 | 100 | -- | -- | -- | -- | -- | -- |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB | | | | | | | | | | | | |
| 22... | 1550 | 0 | 0 | 2 | 4 | 22 | 67 | 88 | 96 | 100 | -- | -- |
| 22... | 1555 | 0 | 0 | 5 | 45 | 83 | 88 | 89 | 91 | 94 | 100 | -- |
| 22... | 1559 | 0 | 0 | 4 | 29 | 83 | 97 | 98 | 98 | 100 | -- | -- |
| 22... | 1603 | 0 | 0 | 5 | 25 | 74 | 96 | 99 | 100 | -- | -- | -- |
| 22... | 1610 | 0 | 0 | 4 | 22 | 70 | 96 | 98 | 100 | -- | -- | -- |
| 24... | 1338 | 0 | 0 | 1 | 2 | 25 | 73 | 85 | 89 | 92 | 100 | -- |
| 24... | 1342 | 0 | 1 | 12 | 61 | 86 | 95 | 99 | 100 | -- | -- | -- |
| 24... | 1345 | 0 | 1 | 7 | 25 | 55 | 71 | 77 | 82 | 90 | 100 | -- |
| 24... | 1353 | 0 | 0 | 3 | 23 | 90 | 100 | -- | -- | -- | -- | -- |
| 24... | 1357 | 0 | 0 | 5 | 21 | 69 | 93 | 96 | 97 | 99 | 100 | -- |
| 25... | 1450 | 0 | 0 | 4 | 10 | 19 | 31 | 35 | 37 | 44 | 77 | 100 |
| 25... | 1455 | 0 | 1 | 19 | 59 | 84 | 95 | 99 | 100 | -- | -- | -- |
| 25... | 1500 | 0 | 1 | 19 | 68 | 80 | 90 | 91 | 92 | 93 | 100 | -- |
| 25... | 1505 | 0 | 1 | 24 | 82 | 98 | 99 | 100 | -- | -- | -- | -- |
| 25... | 1510 | 0 | 0 | 5 | 39 | 95 | 98 | 98 | 98 | 100 | -- | -- |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR | | | | | | | | | | | |
| 07... | 1133 | 0 | 0 | 4 | 40 | 93 | 98 | 99 | 100 | -- | -- |
| 07... | 1136 | 0 | 0 | 2 | 10 | 48 | 79 | 87 | 90 | 96 | 100 |
| 07... | 1140 | 0 | 0 | 5 | 25 | 76 | 99 | 100 | -- | -- | -- |
| 07... | 1144 | 0 | 0 | 4 | 22 | 53 | 77 | 83 | 88 | 97 | 100 |
| 07... | 1146 | 0 | 0 | 2 | 18 | 84 | 97 | 98 | 99 | 100 | -- |
| 13... | 1550 | 0 | 0 | 1 | 7 | 24 | 36 | 43 | 53 | 64 | 100 |
| 13... | 1555 | 0 | 0 | 1 | 4 | 23 | 59 | 77 | 83 | 86 | 100 |
| 13... | 1559 | 0 | 0 | 1 | 8 | 33 | 77 | 91 | 95 | 98 | 100 |
| 13... | 1603 | 0 | 0 | 2 | 20 | 53 | 88 | 95 | 98 | 100 | -- |
| 13... | 1607 | 0 | 0 | 10 | 79 | 100 | -- | -- | -- | -- | -- |
| 20... | 1350 | 0 | 1 | 4 | 8 | 13 | 19 | 24 | 29 | 43 | 100 |
| 20... | 1354 | 0 | 0 | 2 | 21 | 54 | 78 | 83 | 87 | 88 | 100 |
| 20... | 1356 | 0 | 0 | 4 | 41 | 71 | 88 | 93 | 96 | 100 | -- |
| 20... | 1359 | 0 | 1 | 7 | 52 | 77 | 88 | 91 | 94 | 97 | 100 |
| 20... | 1403 | 0 | 0 | 5 | 74 | 99 | 100 | -- | -- | -- | -- |
| 26... | 1533 | 0 | 1 | 3 | 6 | 9 | 13 | 18 | 26 | 48 | 100 |
| 26... | 1537 | 0 | 1 | 6 | 45 | 93 | 98 | 98 | 99 | 100 | -- |
| 26... | 1540 | 0 | 1 | 5 | 33 | 74 | 97 | 99 | 100 | -- | -- |
| 26... | 1545 | 0 | 1 | 12 | 47 | 72 | 88 | 94 | 97 | 98 | 100 |
| 26... | 1549 | 0 | 0 | 3 | 20 | 81 | 96 | 97 | 98 | 99 | 100 |
| APR | | | | | | | | | | | |
| 17... | 1227 | 0 | 0 | 4 | 21 | 66 | 82 | 89 | 95 | 100 | -- |
| 17... | 1233 | 0 | 0 | 2 | 16 | 56 | 78 | 84 | 86 | 96 | 100 |
| 17... | 1236 | 0 | 1 | 9 | 34 | 61 | 75 | 82 | 88 | 95 | 100 |
| 17... | 1240 | 0 | 1 | 10 | 55 | 96 | 100 | -- | -- | -- | -- |
| 17... | 1242 | 0 | 0 | 4 | 68 | 99 | 100 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 04... | 1205 | 0 | 1 | 4 | 13 | 35 | 50 | 62 | 74 | 84 | 100 |
| 04... | 1208 | 0 | 1 | 10 | 42 | 87 | 94 | 96 | 99 | 100 | -- |
| 04... | 1211 | 0 | 1 | 9 | 56 | 90 | 94 | 95 | 95 | 96 | 100 |
| 04... | 1219 | 0 | 1 | 8 | 27 | 37 | 40 | 43 | 46 | 63 | 100 |
| 04... | 1221 | 0 | 0 | 5 | 42 | 95 | 99 | 100 | -- | -- | -- |
| 10... | 1440 | 0 | 0 | 2 | 25 | 94 | 97 | 97 | 97 | 100 | -- |
| 10... | 1445 | 0 | 1 | 11 | 38 | 62 | 73 | 77 | 81 | 83 | 100 |
| 10... | 1450 | 0 | 2 | 32 | 96 | 100 | -- | -- | -- | -- | -- |
| 10... | 1453 | 0 | 1 | 10 | 40 | 64 | 88 | 95 | 98 | 100 | -- |
| 10... | 1456 | 0 | 1 | 7 | 38 | 50 | 54 | 58 | 64 | 78 | 100 |
| 23... | 1241 | 0 | 1 | 3 | 10 | 57 | 82 | 87 | 89 | 93 | 100 |
| 23... | 1245 | 0 | 1 | 12 | 88 | 100 | -- | -- | -- | -- | -- |
| 23... | 1247 | 0 | 1 | 6 | 41 | 73 | 86 | 91 | 94 | 98 | 100 |
| 23... | 1250 | 0 | 2 | 19 | 69 | 92 | 99 | 100 | -- | -- | -- |
| 23... | 1254 | 0 | 2 | 25 | 90 | 100 | -- | -- | -- | -- | -- |
| 29... | 1154 | 0 | 0 | 2 | 3 | 20 | 73 | 88 | 93 | 98 | 100 |
| 29... | 1158 | 0 | 1 | 6 | 39 | 66 | 80 | 87 | 93 | 100 | -- |
| 29... | 1205 | 0 | 0 | 4 | 28 | 71 | 93 | 96 | 97 | 100 | -- |
| 29... | 1206 | 0 | 0 | 4 | 89 | 100 | -- | -- | -- | -- | -- |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| JUN | | | | | | | | | | | |
| 05... | 1143 | 0 | 0 | 2 | 7 | 32 | 61 | 79 | 91 | 100 | -- |
| 05... | 1147 | 0 | 1 | 18 | 90 | 99 | 100 | -- | -- | -- | -- |
| 05... | 1149 | 0 | 1 | 11 | 55 | 86 | 98 | 100 | -- | -- | -- |
| 05... | 1152 | 0 | 0 | 6 | 51 | 96 | 100 | -- | -- | -- | -- |
| 05... | 1155 | 0 | 0 | 1 | 31 | 87 | 96 | 97 | 98 | 100 | -- |
| 14... | 1400 | 0 | 0 | 3 | 21 | 68 | 84 | 89 | 94 | 96 | 100 |
| 14... | 1405 | 0 | 1 | 14 | 90 | 100 | -- | -- | -- | -- | -- |
| 14... | 1410 | 0 | 1 | 14 | 60 | 83 | 88 | 89 | 91 | 95 | 100 |
| 14... | 1415 | 0 | 1 | 8 | 44 | 87 | 97 | 99 | 100 | -- | -- |
| 14... | 1420 | 0 | 0 | 2 | 31 | 93 | 99 | 99 | 99 | 100 | -- |
| 20... | 1515 | 0 | 1 | 4 | 41 | 95 | 99 | 100 | -- | -- | -- |
| 20... | 1520 | 0 | 1 | 5 | 50 | 96 | 100 | -- | -- | -- | -- |
| 20... | 1525 | 0 | 2 | 9 | 58 | 86 | 92 | 94 | 96 | 98 | 100 |
| 20... | 1530 | 0 | 1 | 6 | 45 | 89 | 97 | 98 | 99 | 100 | -- |
| 20... | 1535 | 0 | 2 | 10 | 61 | 98 | 100 | -- | -- | -- | -- |
| 28... | 1315 | 0 | 0 | 2 | 4 | 25 | 66 | 84 | 94 | 100 | -- |
| 28... | 1317 | 0 | 1 | 8 | 36 | 67 | 75 | 80 | 85 | 90 | 100 |
| 28... | 1319 | 0 | 0 | 6 | 51 | 83 | 88 | 89 | 91 | 96 | 100 |
| 28... | 1321 | 0 | 0 | 3 | 35 | 75 | 84 | 86 | 89 | 96 | 100 |
| 28... | 1323 | 0 | 0 | 0 | 2 | 4 | 4 | 5 | 10 | 32 | 100 |
| JUL | | | | | | | | | | | |
| 05... | 1355 | 0 | 1 | 9 | 50 | 81 | 92 | 96 | 99 | 100 | -- |
| 05... | 1357 | 0 | 1 | 14 | 69 | 89 | 95 | 96 | 97 | 98 | 100 |
| 05... | 1359 | 0 | 0 | 9 | 59 | 89 | 93 | 94 | 96 | 100 | -- |
| 05... | 1401 | 0 | 0 | 5 | 45 | 86 | 97 | 98 | 99 | 100 | -- |
| 05... | 1403 | 0 | 0 | 1 | 31 | 95 | 99 | 99 | 100 | -- | -- |
| 10... | 1505 | 0 | 0 | 7 | 57 | 83 | 88 | 91 | 93 | 96 | 100 |
| 10... | 1507 | 0 | 2 | 27 | 90 | 100 | -- | -- | -- | -- | -- |
| 10... | 1509 | 0 | 1 | 10 | 50 | 74 | 80 | 83 | 86 | 93 | 100 |
| 10... | 1511 | 0 | 0 | 9 | 71 | 96 | 97 | 98 | 98 | 100 | -- |
| 10... | 1513 | 0 | 0 | 1 | 35 | 94 | 95 | 96 | 96 | 97 | 100 |
| 19... | 1335 | 0 | 1 | 2 | 34 | 87 | 94 | 97 | 98 | 100 | -- |
| 19... | 1337 | 0 | 1 | 12 | 55 | 77 | 89 | 93 | 95 | 100 | -- |
| 19... | 1339 | 0 | 0 | 13 | 77 | 98 | 99 | 99 | 100 | -- | -- |
| 19... | 1341 | 0 | 0 | 8 | 50 | 81 | 92 | 97 | 100 | -- | -- |
| 19... | 1343 | 0 | 0 | 1 | 19 | 87 | 95 | 96 | 96 | 96 | 100 |
| 26... | 1325 | 0 | 1 | 8 | 52 | 88 | 95 | 97 | 99 | 100 | -- |
| 26... | 1327 | 0 | 1 | 15 | 75 | 91 | 95 | 96 | 97 | 100 | -- |
| 26... | 1329 | 0 | 1 | 18 | 79 | 97 | 99 | 100 | -- | -- | -- |
| 26... | 1331 | 0 | 0 | 11 | 84 | 99 | 99 | 100 | -- | -- | -- |
| 26... | 1333 | 0 | 0 | 2 | 40 | 98 | 100 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 08... | 1405 | 0 | 3 | 28 | 73 | 89 | 94 | 96 | 97 | 98 | 100 |
| 08... | 1407 | 0 | 1 | 22 | 89 | 99 | 100 | -- | -- | -- | -- |
| 08... | 1409 | 0 | 0 | 15 | 77 | 94 | 97 | 98 | 99 | 100 | -- |
| 08... | 1411 | 0 | 0 | 5 | 55 | 95 | 99 | 99 | 100 | -- | -- |
| 08... | 1413 | 0 | 0 | 1 | 28 | 87 | 96 | 97 | 98 | 99 | 100 |
| 21... | 1325 | 0 | 3 | 39 | 98 | 100 | -- | -- | -- | -- | -- |
| 21... | 1327 | 0 | 1 | 18 | 84 | 96 | 98 | 99 | 99 | 100 | -- |
| 21... | 1329 | 0 | 0 | 8 | 63 | 95 | 99 | 100 | -- | -- | -- |
| 21... | 1331 | 0 | 0 | 2 | 28 | 83 | 98 | 99 | 100 | -- | -- |
| 21... | 1333 | 0 | 0 | 2 | 44 | 97 | 100 | -- | -- | -- | -- |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| SEP | | | | | | | | | | | |
| 04... | 1450 | 0 | 0 | 5 | 49 | 91 | 98 | 99 | 100 | -- | -- |
| 04... | 1452 | 0 | 0 | 6 | 45 | 82 | 96 | 98 | 99 | 100 | -- |
| 04... | 1454 | 0 | 0 | 7 | 51 | 78 | 88 | 92 | 95 | 97 | 100 |
| 04... | 1456 | 0 | 0 | 4 | 36 | 86 | 98 | 100 | -- | -- | -- |
| 04... | 1458 | 0 | 0 | 3 | 50 | 98 | 100 | -- | -- | -- | -- |
| 11... | 1400 | 0 | 1 | 1 | 20 | 88 | 99 | 100 | -- | -- | -- |
| 11... | 1402 | 0 | 1 | 13 | 69 | 98 | 100 | -- | -- | -- | -- |
| 11... | 1404 | 0 | 1 | 11 | 63 | 94 | 99 | 100 | -- | -- | -- |
| 11... | 1406 | 0 | 0 | 8 | 55 | 78 | 88 | 93 | 96 | 100 | -- |
| 11... | 1408 | 0 | 0 | 2 | 49 | 99 | 100 | -- | -- | -- | -- |
| 26... | 1245 | 0 | 1 | 6 | 26 | 48 | 62 | 68 | 74 | 78 | 100 |
| 26... | 1247 | 0 | 1 | 21 | 75 | 94 | 97 | 98 | 99 | 100 | -- |
| 26... | 1249 | 0 | 0 | 8 | 53 | 93 | 98 | 99 | 99 | 100 | -- |
| 26... | 1251 | 0 | 0 | 5 | 43 | 95 | 99 | 99 | 100 | -- | -- |
| 26... | 1253 | 0 | 0 | 2 | 32 | 96 | 100 | -- | -- | -- | -- |



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