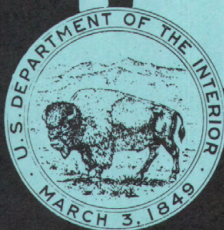
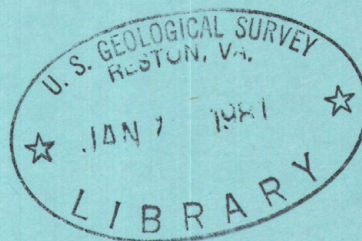


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Water Resources Data for Oregon

Part 2. Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the State of Oregon
and with other agencies**

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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DECEMBER

S	M	T	W	T	F	S
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23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
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27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
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24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
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24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
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28	29	30				

MAY

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JUNE

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30						

JULY

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21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
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22	23	24	25	26	27	28
29	30					

1974

Water Resources Data for Oregon

Part 2. Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the State Engineer of Oregon
and with other agencies**

Prepared in cooperation with

State Engineer of Oregon
Oregon Board of Higher Education
Oregon State Game Commission
Counties of Douglas and Lane
Cities of Coos Bay-North Bend, Portland and Astoria
Portland General Electric Company
Corps of Engineers, U.S. Army
Forest Service, U.S. Department of Agriculture
Counties of Clark and Cowlitz, Washington;
Public Utility Districts
Environmental Protection Agency, U.S. Department of
the Interior

Water resources records, 1974, for Oregon are
in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Oregon
Part 1. Surface-Water Records
2. Water Resources Data for Oregon
Part 2. Water-Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 3202
Portland, Oregon 97208

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WATER-QUALITY STATIONS IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

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

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WATER RESOURCES DATA FOR OREGON, 1974

Part 2. Water-Quality Records

INTRODUCTION

Water-resources investigations of the U.S. Geological Survey include the collection of water-quality data on the chemical and physical characteristics of surface- and ground-water supplies of the Nation. These data for the 1974 water year for the quality of surface waters in Oregon are presented in this report. The data were collected by the Water Resources Division of the U.S. Geological Survey under the direction of S. F. Kapustka, district chief.

The Geological Survey, from 1941 through 1970, published an annual series of water-supply papers, "Quality of Surface Waters of the United States," which contained the chemical-quality, temperature, and suspended-sediment data of the water. Each volume covered an area whose boundaries coincided with those of certain natural drainage areas. The records for Oregon are contained in Parts 9-11, 12-16 of the water-supply paper series. (See table, p. .) These publications are available in most public libraries. Beginning with the 1964 water year, water-quality records for surface and ground water have been released by the Geological Survey on a state boundary basis. This report is primarily for local and immediate use, and its distribution is limited. These records will be published later in Geological Survey water-supply papers.

COOPERATION

The work was done under cooperative agreements between the U.S. Geological Survey and the following organizations:

State Engineer of Oregon, C. L. Wheeler
Oregon Board of Higher Education, Roy E. Lieuallan, chancellor
Oregon State Game Commission, John W. McKean, director
Counties of Douglas and Lane
Cities of Coos Bay-North Bend, Portland, and Astoria
Portland General Electric Company
Corps of Engineers, U.S. Army
Bureau of Fish and Wildlife, U.S. Department of the Interior
Bureau of Reclamation, U.S. Department of the Interior
Forest Service, U.S. Department of Agriculture
Counties of Clark and Cowlitz, Washington; Public Utility Districts
Environmental Protection Agency, U.S. Department of the Interior

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data, as used in this report are defined as follows:

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

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

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

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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

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

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (ft³/s)."

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

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

Hardness of water is physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO₃).

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

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

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 5.

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

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

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

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

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

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

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

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

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

Classification	Size (mm)	Methods of analyses
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

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

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

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

Total sediment discharge is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

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

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

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

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

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

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

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Jackson turbidity units (JTU).

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

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

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

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

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are

used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in ug/l (micrograms per litre), radium as radium - 226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

A picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.2 dpm (disintegrations per minute).

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning stations numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-records stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 14105700 which appears just to left of the station name includes the 2-digit part number "14" plus the 6-digit downstream order number "105700." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Oregon have been released in the report, "Water Resources Data for Oregon, 1972, Part 1. Surface-Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, biological, microbiological, water temperature, and fluvial sediment.

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

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per litre (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with

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

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

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

a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. To convert temperature in degrees Celsius to degrees Fahrenheit, see table 3.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 3.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some must be sampled at several verticals across the channel to determine accurately the solute load.

At chemical-quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

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

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are

obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

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

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

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

WATER-SUPPLY PAPERS

The annual series of water-supply papers that give information on quality of surface waters in Oregon are shown in the following table.

Water-supply paper numbers and parts,
water years 1947-70

<u>Year</u>	<u>Parts</u> <u>9-14</u>	<u>Year</u>	<u>Parts</u> <u>9-14</u>	<u>Year</u>	<u>Parts</u> <u>9-11</u>	<u>Parts</u> <u>12-16</u>
1947	1102	1956	1453	1964	1958	A1959
1948	1133	1957	1523	1965	1965	1966
1949	1163	1958	1574	1966	1995	1996
1950	1189	1959	1645	1967	2015	2016
1951	1200	1960	1745	1968	B2098, 2099	B2100
1952	1253	1961	1885	1969	B2148, B2149	B2150
1953	1293	1962	1945	1970	B2158, B2159	B2160
1954	1353	1963	1951			
1955	1401					

A Parts 12-15.

B In preparation.

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_____ 1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____ 1961, The single stage sampler for suspended sediment: Rept. 13.

_____ 1963, Determinations of fluvial sediment discharge: Rept. 14.

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

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

Multiply English units	By	To obtain SI units
Length		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
Area		
acres	4047	square metres (m ²)
	.4047	square hectometre (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
Volume		
cubic feet (ft ³)	.02832	cubic metres (m ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
Flow		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
Mass		
ton (short)	.9072	tonne (t)

11492200 CRATER LAKE NEAR CRATER LAKE, OREG.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°58'45", long 122°04'45", (unsurveyed), Crater Lake National Park and Vicinity Quadrangle, Klamath County, temperature recorder at gaging station at boat harbor at end of trail in Cleatwood Cove, and 6 mi (10 km) northeast of Crater Lake Post Office.

DRAINAGE AREA.--26.2 mi² (67.9 km²), of which 20.5 mi² (53.1 km²) is lake area at elevation 6,176 ft (1,882 m).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1974.

Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 15.5°C Aug. 6,7; minimum, 2.0°C occurred sometime during period Nov. 19 to May 7.

Period of record:

Water temperatures: Maximum, 18.0°C on several days in 1967; minimum, 0.5°C on several days in 1969.

REMARKS.--Recorder stopped Nov. 19 to May 7; range in temperature, 2.0°C to 6.5°C.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	9.0	9.0	---	---	---	---	---	---	---	---
2	10.5	10.5	9.0	9.0	---	---	---	---	---	---	---	---
3	10.5	10.5	9.0	9.0	---	---	---	---	---	---	---	---
4	10.5	10.5	9.0	8.5	---	---	---	---	---	---	---	---
5	10.5	10.5	8.5	8.0	---	---	---	---	---	---	---	---
6	10.5	10.5	8.0	8.0	---	---	---	---	---	---	---	---
7	10.5	10.5	8.0	7.0	---	---	---	---	---	---	---	---
8	10.5	10.5	7.0	7.0	---	---	---	---	---	---	---	---
9	10.5	10.0	7.0	7.0	---	---	---	---	---	---	---	---
10	10.0	10.0	7.0	6.5	---	---	---	---	---	---	---	---
11	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
12	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
13	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
14	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
15	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
16	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
17	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
18	10.0	10.0	6.5	6.5	---	---	---	---	---	---	---	---
19	10.0	10.0	---	---	---	---	---	---	---	---	---	---
20	10.0	10.0	---	---	---	---	---	---	---	---	---	---
21	10.0	10.0	---	---	---	---	---	---	---	---	---	---
22	10.0	10.0	---	---	---	---	---	---	---	---	---	---
23	10.0	9.5	---	---	---	---	---	---	---	---	---	---
24	9.5	9.5	---	---	---	---	---	---	---	---	---	---
25	9.5	9.5	---	---	---	---	---	---	---	---	---	---
26	9.5	9.0	---	---	---	---	---	---	---	---	---	---
27	9.0	9.0	---	---	---	---	---	---	---	---	---	---
28	9.0	9.0	---	---	---	---	---	---	---	---	---	---
29	9.0	9.0	---	---	---	---	---	---	---	---	---	---
30	9.0	9.0	---	---	---	---	---	---	---	---	---	---
31	9.0	9.0	---	---	---	---	---	---	---	---	---	---
MONTH	10.5	9.0	---	---	---	---	---	---	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	4.0	4.0	8.5	8.5	13.5	12.0	14.0	13.5
2	---	---	---	---	4.0	4.0	9.5	8.5	13.0	12.0	14.5	14.0
3	---	---	---	---	4.0	4.0	9.5	9.0	13.5	12.0	14.5	14.5
4	---	---	---	---	4.0	4.0	9.5	9.0	13.5	13.0	14.5	14.5
5	---	---	---	---	4.5	4.0	10.0	9.5	15.0	13.5	14.5	14.5
6	---	---	---	---	4.5	4.0	10.0	10.0	15.5	15.0	14.5	14.5
7	---	---	---	---	4.5	4.5	10.0	10.0	15.5	14.0	14.5	14.5
8	---	---	3.0	3.0	4.5	4.5	10.0	10.0	14.5	11.5	14.5	14.5
9	---	---	3.0	3.0	4.5	4.5	10.0	9.5	14.0	12.0	14.5	14.5
10	---	---	3.0	3.0	4.5	4.5	9.5	9.5	14.0	13.5	14.5	14.5
11	---	---	3.0	3.0	4.5	4.5	9.5	9.5	14.0	13.5	14.5	14.5
12	---	---	3.0	3.0	4.5	4.5	9.5	9.5	14.5	14.0	14.5	14.0
13	---	---	3.0	3.0	4.5	4.5	9.5	9.5	14.5	14.5	14.0	14.0
14	---	---	3.0	3.0	4.5	4.5	9.5	9.5	14.5	14.5	14.0	13.5
15	---	---	3.0	3.0	4.5	4.5	10.0	9.5	14.5	14.0	13.5	13.5
16	---	---	3.0	3.0	4.5	4.5	10.0	10.0	14.0	14.0	13.5	13.5
17	---	---	3.5	3.0	4.5	4.5	10.0	10.0	14.0	14.0	13.5	13.5
18	---	---	3.5	3.5	4.5	4.5	10.0	10.0	14.0	14.0	13.5	13.5
19	---	---	3.5	3.5	5.0	4.5	10.0	10.0	14.0	14.0	13.5	13.5
20	---	---	3.5	3.5	5.0	5.0	10.0	10.0	14.0	14.0	13.5	13.5
21	---	---	3.5	3.5	5.0	5.0	10.5	10.0	14.0	13.5	13.5	13.5
22	---	---	3.5	3.5	5.0	5.0	12.0	10.5	13.5	13.5	13.5	13.5
23	---	---	3.5	3.5	6.0	5.0	12.0	11.5	13.5	13.5	13.5	13.5
24	---	---	3.5	3.5	8.0	6.5	12.0	11.5	13.5	13.5	13.5	13.0
25	---	---	3.5	3.5	9.0	8.0	11.5	11.0	13.5	13.5	13.0	13.0
26	---	---	3.5	3.5	8.5	8.5	12.0	11.0	14.0	13.5	13.0	13.0
27	---	---	3.5	3.5	8.5	8.5	13.0	12.0	14.5	14.0	13.0	13.0
28	---	---	3.5	3.5	8.5	8.5	13.0	13.0	14.0	14.0	13.0	13.0
29	---	---	4.0	3.5	8.5	8.5	13.0	12.0	14.0	14.0	13.0	13.0
30	---	---	4.0	4.0	8.5	8.5	13.0	12.0	14.0	13.5	13.0	13.0
31	---	---	4.0	4.0	---	---	13.5	12.0	14.0	13.5	---	---
MONTH	---	---	---	---	9.0	4.0	13.5	8.5	15.5	11.5	14.5	13.0

KLAMATH RIVER BASIN.

11492200 CRATER LAKE NEAR CRATER LAKE, OREG.--Continued
(Hydrologic bench-mark station)

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED SILICA (SiO_2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO_3) (MG/L)	CAR- BONATE (CO_3) (MG/L)	DIS- SOLVED SULFATE (SO_4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 30...	18	160	8.0	2.6	17	2.3	37	0	11	13	.2
JULY 02...	19	50	7.7	2.9	19	2.2	39	0	14	11	.1
AUG. 27...	18	20	7.6	2.1	11	1.8	36	--	12	12	.2
DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	PH (UNITS)
OCT. 30...	.07	.18	91	.12	31	0	1.3	52	118	--	7.7
JULY 02...	.16	.08	96	.13	31	0	1.5	55	123	9.5	7.2
AUG. 27...	.03	.08	83	.11	28	0	.9	44	117	--	--

13181000 OWYHEE RIVER NEAR ROME, OREG.

LOCATION.--Lat 42°52'00", long 117°39'00", in SE 1/4 sec. 14, T.31 S., R.41 E., Malheur County, temperature recorder at gaging station on right bank 0.5 mi (0.8 km) downstream from Jordan Creek, 2.6 mi (4.2 km) north of Rome, and at mile 117.0 (188.3 km).

DRAINAGE AREA.--About 8,000 mi² (20,700 km²).

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 27.0°C July 28; minimum, freezing point Jan. 17, 18.

Period of record:

Water temperatures: Maximum, 28.0°C June 28, 29, July 9, 1973; minimum, freezing point on several days during January 1973 and Jan. 17, 18, 1974.

REMARKS.--Recorder stopped May 24 to June 25; range in temperature, 12.0°C to 25.5°C.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	13.5	---	---	4.5	4.0	1.5	1.0	3.5	2.0	5.5	4.0
2	15.0	11.5	---	---	4.0	3.5	1.0	1.0	3.0	2.0	5.0	3.5
3	14.5	11.5	---	---	3.5	3.5	1.0	0.5	3.5	2.0	3.5	2.0
4	14.0	11.5	---	---	3.5	2.0	0.5	0.5	3.0	1.0	2.0	1.5
5	13.5	11.5	---	5.0	2.0	2.0	0.5	0.5	1.5	0.5	3.5	2.0
6	12.0	11.5	6.0	5.0	3.0	2.0	0.5	0.5	1.5	0.5	4.0	3.5
7	12.0	11.5	7.0	6.0	4.0	3.0	0.5	0.5	1.0	0.5	4.0	3.5
8	13.0	11.0	8.0	7.0	4.5	4.0	0.5	0.5	2.0	0.5	4.0	3.0
9	13.0	11.0	8.0	8.0	4.5	3.5	0.5	0.5	2.0	0.5	3.5	2.0
10	11.5	11.0	8.5	8.0	3.5	3.5	0.5	0.5	3.0	1.0	4.0	2.0
11	11.5	11.0	9.5	8.5	3.5	3.5	0.5	0.5	3.5	1.5	4.5	3.5
12	13.0	11.0	10.0	9.5	3.5	3.0	0.5	0.5	2.0	2.0	5.0	4.5
13	13.5	11.0	9.5	9.0	3.0	3.0	0.5	0.5	4.0	2.0	5.0	5.0
14	14.0	11.5	9.0	7.0	3.0	3.0	0.5	0.5	3.5	3.0	5.0	4.5
15	13.5	11.5	---	---	3.5	3.0	0.5	0.5	4.5	3.0	5.0	4.5
16	14.0	11.5	---	---	3.5	3.5	1.0	0.5	4.5	4.0	6.0	5.0
17	14.0	11.5	---	---	4.0	3.5	1.5	0.0	4.0	3.5	6.0	5.5
18	14.0	11.5	---	---	4.0	3.0	0.5	0.0	4.0	3.5	6.0	5.5
19	13.0	11.0	---	4.5	3.5	2.0	2.0	0.5	4.5	3.5	6.0	5.0
20	12.0	11.5	4.5	4.5	2.0	2.0	2.0	2.0	4.5	3.0	6.0	5.0
21	13.0	11.5	4.5	3.0	2.0	2.0	2.0	1.5	4.5	2.0	5.5	5.0
22	11.5	10.5	3.0	3.0	3.0	2.0	1.5	1.5	3.5	2.0	6.0	5.5
23	11.0	10.5	3.0	3.0	3.0	3.0	1.5	1.0	3.0	1.0	6.0	6.0
24	10.5	10.5	3.0	3.0	3.0	2.0	3.0	1.5	3.5	1.0	8.0	6.0
25	11.0	10.0	3.0	3.0	2.0	1.5	2.0	2.0	3.5	2.0	8.0	8.0
26	10.5	10.0	3.0	3.0	1.5	1.0	2.0	2.0	3.5	2.0	8.0	8.0
27	10.5	10.0	3.0	3.0	1.5	1.0	2.0	2.0	3.5	2.0	8.0	9.0
28	---	---	3.0	3.0	2.0	1.5	3.0	1.5	4.5	3.5	8.0	7.0
29	---	---	3.5	3.0	2.0	2.0	3.0	1.5	---	---	8.0	7.0
30	---	---	4.0	3.5	2.0	2.0	3.0	2.0	---	---	7.0	7.0
31	---	---	---	---	2.0	1.5	3.0	3.0	---	---	7.0	6.5
MONTH	16.0	10.0	---	---	4.5	1.0	3.0	0.0	4.5	0.5	8.0	1.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	13.0	11.5	---	---	24.0	20.0	25.0	22.0	23.0	19.0
2	6.0	5.5	13.5	11.0	---	---	21.5	17.0	25.0	21.0	23.0	18.5
3	5.5	5.0	13.5	11.0	---	---	23.5	17.0	25.5	21.0	22.0	18.5
4	6.0	5.0	14.0	11.0	---	---	24.5	19.0	26.0	21.0	22.0	18.5
5	5.5	5.5	14.5	11.5	---	---	24.0	19.5	25.0	22.0	22.0	18.5
6	6.5	5.5	14.5	13.0	---	---	23.0	19.5	23.0	21.5	22.0	18.0
7	6.5	5.5	15.5	13.5	---	---	23.0	18.5	22.0	19.5	21.0	18.5
8	8.0	6.5	16.0	14.0	---	---	21.0	18.0	21.5	17.0	21.0	16.5
9	8.0	8.0	16.0	14.0	---	---	18.0	15.5	22.0	17.0	21.0	17.0
10	8.0	6.5	14.5	13.0	---	---	16.0	14.5	23.5	18.5	20.5	18.0
11	8.0	6.0	14.5	11.5	---	---	19.5	15.0	23.5	19.0	19.0	16.0
12	6.0	5.5	14.5	12.0	---	---	21.0	16.5	23.5	20.0	18.0	15.0
13	6.0	5.0	12.0	11.0	---	---	23.0	18.0	22.0	19.0	17.0	14.0
14	8.0	5.5	12.0	11.0	---	---	24.5	19.5	21.0	16.5	17.0	13.5
15	8.5	7.0	12.0	10.5	---	---	23.5	20.5	22.0	18.0	17.0	14.0
16	10.0	8.0	11.5	11.0	---	---	24.0	19.5	23.5	18.5	18.0	14.0
17	11.0	9.0	11.5	10.5	---	---	25.0	20.0	23.5	19.0	18.0	14.0
18	11.0	10.0	11.0	10.0	---	---	25.0	21.0	23.5	19.0	18.0	14.0
19	11.0	10.0	10.5	10.0	---	---	25.5	21.5	21.0	18.0	18.0	14.0
20	10.5	9.0	10.5	9.0	---	---	26.5	22.0	20.0	15.0	18.0	14.5
21	9.5	8.0	11.5	9.5	---	---	26.5	22.0	21.0	16.5	18.5	14.5
22	10.5	9.0	14.0	10.5	---	---	26.5	21.0	20.5	18.0	18.5	14.5
23	11.0	10.5	15.5	11.5	---	---	25.5	21.0	22.0	18.0	18.5	14.5
24	11.0	10.0	---	---	---	---	25.5	21.0	23.5	19.0	18.5	14.5
25	10.5	9.5	---	---	23.0	---	26.0	21.0	24.0	19.5	18.0	14.0
26	10.0	9.0	---	---	22.0	16.5	25.0	21.0	24.0	20.0	16.5	14.0
27	9.5	8.5	---	---	23.5	18.0	26.0	21.5	24.0	20.0	15.0	12.0
28	9.0	8.5	---	---	24.0	18.5	27.0	21.5	23.5	19.5	15.0	11.5
29	10.5	8.5	---	---	24.5	19.0	26.0	23.0	23.5	19.5	15.0	11.5
30	12.0	10.0	---	---	25.0	19.5	26.5	21.0	23.5	19.0	15.0	11.5
31	---	---	---	---	---	---	26.5	21.5	23.5	19.0	---	---
MONTH	12.0	5.0	---	---	---	---	27.0	14.5	26.0	15.0	23.0	11.5

GRANDE RONDE RIVER BASIN

13331500 MINAM RIVER AT MINAM, OREG.
(Hydrologic bench-mark station)

LOCATION.--Lat 45°37'12", long 117°43'32", in SW¼SW¼ sec.29, T.2 N., R.41 E., Wallowa County, at gaging station on left bank, 2.3 mi (3.7 km) downstream from Squaw Creek, 0.3 mi (0.5 km) west of Minam, and at mile 0.3 (0.5 km).

DRAINAGE AREA.--240 mi² (620 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.
Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.0°C Aug. 26-28, 30; minimum, freezing point on many days during winter period.

Period of record:

Water temperatures: Maximum, 26.0°C Aug. 17, 18, 1967; minimum, freezing point on many days during winter period each year.

REMARKS.--Recorder stopped Jan. 6-28; range in temperature, 0°C to 3.5°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	8.5	5.5	3.5	5.0	4.0	0.0	0.0	3.5	1.0	3.5	2.0
2	10.5	5.5	4.5	3.5	4.5	3.0	0.0	0.0	3.5	2.0	4.0	2.0
3	10.0	3.5	4.5	3.0	4.0	0.5	0.5	0.0	3.5	1.0	4.0	3.0
4	10.0	3.5	3.5	2.0	1.5	0.5	0.5	0.0	3.0	0.0	3.5	2.0
5	10.0	4.5	4.0	2.0	2.0	0.5	0.5	---	3.5	0.0	3.0	2.0
6	9.0	6.0	5.0	4.0	0.5	0.5	---	---	1.5	0.0	4.0	3.0
7	10.5	6.0	4.5	3.5	2.0	0.5	---	---	1.5	0.0	4.5	3.0
8	9.5	3.5	4.5	2.0	4.0	2.0	---	---	4.0	1.0	4.5	1.0
9	8.5	3.0	5.0	4.0	3.0	2.0	---	---	4.0	1.0	5.0	0.0
10	9.0	3.5	6.0	5.0	3.0	1.5	---	---	3.5	0.5	4.5	1.0
11	8.0	4.5	6.5	6.0	4.0	3.0	---	---	3.5	0.0	6.5	2.0
12	10.0	6.5	6.5	5.0	4.0	3.5	---	---	3.5	1.0	4.5	3.0
13	11.0	8.0	5.0	4.5	3.5	3.0	---	---	4.0	1.0	5.5	2.0
14	13.5	9.5	4.5	3.5	3.5	2.0	---	---	4.0	1.5	5.0	2.0
15	12.0	8.0	5.0	4.5	3.5	3.0	---	---	5.0	2.0	6.5	3.5
16	12.0	6.5	5.5	4.5	4.0	3.5	---	---	4.5	3.0	7.0	5.5
17	12.0	6.0	4.5	4.0	4.5	4.0	---	---	3.5	2.0	6.5	4.5
18	11.5	6.0	4.0	3.0	5.0	3.5	---	---	3.5	1.5	6.5	3.5
19	11.0	6.5	3.5	1.5	3.5	3.0	---	---	3.5	2.0	6.0	3.0
20	10.5	8.5	2.0	1.0	4.0	3.5	---	---	4.5	1.5	5.5	1.0
21	10.0	7.0	2.0	1.0	4.5	4.0	---	---	3.5	1.5	6.0	1.0
22	11.0	9.0	2.0	1.0	4.5	3.5	---	---	3.5	1.0	6.0	3.5
23	10.5	9.0	2.0	1.0	4.5	3.5	---	---	3.5	0.5	6.5	2.0
24	9.0	7.0	2.0	1.0	4.0	3.0	---	---	3.5	0.0	8.0	2.0
25	9.0	5.0	2.0	1.0	3.5	2.0	---	---	3.5	1.0	6.5	3.5
26	8.0	3.5	3.0	1.0	2.0	0.5	---	---	3.5	1.5	9.0	4.5
27	7.0	3.0	3.0	1.0	2.0	0.5	---	---	4.5	1.0	8.0	4.5
28	5.0	3.5	4.5	2.0	2.0	1.0	4.0	---	5.0	3.0	6.0	4.0
29	8.0	4.5	4.5	3.5	1.5	0.5	4.0	2.0	---	---	6.5	3.5
30	6.5	4.5	4.5	4.5	2.0	0.5	4.5	1.5	---	---	6.0	4.0
31	7.0	5.5	---	---	1.5	0.0	3.5	0.5	---	---	6.5	3.5
MONTH	14.0	3.0	6.5	1.0	5.0	0.0	---	---	5.0	0.0	9.0	0.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.5	8.5	6.0	7.0	4.5	9.5	5.5	15.5	13.5	20.0	13.0
2	6.0	3.5	8.5	5.0	8.0	4.5	10.0	5.5	16.0	13.5	19.5	11.5
3	6.0	3.5	9.5	4.5	8.5	5.5	10.5	6.0	18.0	12.0	20.0	12.0
4	6.5	3.5	9.5	4.5	8.0	5.5	10.0	6.0	19.0	13.5	20.0	13.0
5	6.5	4.5	9.5	5.0	7.0	6.0	10.5	8.0	19.0	13.5	20.0	12.0
6	8.0	5.0	8.5	5.5	7.0	6.0	10.0	7.0	19.0	14.5	19.5	11.5
7	9.0	4.5	9.0	5.5	6.5	5.5	10.5	7.0	16.5	12.0	19.5	11.5
8	9.0	5.0	9.0	5.5	9.5	5.5	10.5	8.5	16.5	11.0	17.0	13.0
9	6.5	5.0	7.0	5.0	10.0	6.0	9.5	7.0	17.0	10.5	16.5	13.0
10	6.5	4.5	6.5	4.5	10.0	6.0	8.5	7.0	17.0	11.0	15.5	12.0
11	6.5	4.5	7.0	4.5	10.0	6.0	8.5	6.5	19.0	13.0	15.0	10.0
12	8.0	3.5	6.5	5.0	9.5	6.0	11.0	6.5	17.0	11.5	16.0	10.0
13	8.5	2.0	8.0	4.0	9.5	6.0	12.0	8.5	16.5	10.5	16.0	8.0
14	9.5	3.5	6.5	5.0	9.5	6.0	13.0	9.5	18.0	11.5	16.0	8.0
15	10.0	4.5	6.0	4.0	9.5	6.0	12.0	10.0	18.5	11.0	16.5	8.0
16	9.5	5.0	5.0	3.5	9.5	6.0	11.5	9.0	19.0	11.5	17.0	8.5
17	9.5	4.0	7.0	3.5	9.5	6.0	13.0	10.0	19.5	12.0	17.0	8.5
18	6.5	5.5	7.0	4.0	9.0	6.0	13.5	10.5	16.5	13.0	17.0	9.0
19	6.5	5.5	8.0	4.5	9.5	6.0	14.5	11.5	16.5	12.0	18.0	9.5
20	8.0	5.0	8.5	5.0	8.5	5.5	14.0	11.0	18.5	11.0	18.0	10.0
21	10.5	5.0	10.0	5.0	8.5	5.0	14.5	11.0	19.0	11.0	18.0	10.0
22	8.0	6.0	11.0	6.5	9.0	5.5	14.0	11.5	18.0	12.0	18.0	10.0
23	9.0	6.0	10.5	7.0	9.5	5.5	14.5	11.0	19.0	12.0	17.0	9.5
24	9.0	6.0	9.5	7.0	9.0	5.0	14.5	10.5	19.5	13.5	16.5	9.0
25	8.5	6.0	10.0	7.0	8.5	5.0	15.0	10.5	20.5	13.0	16.5	8.5
26	6.5	4.5	10.0	6.0	8.0	4.5	15.0	10.5	21.0	13.5	14.5	9.5
27	6.0	5.0	9.0	5.5	9.0	5.0	15.0	11.0	21.0	13.5	13.5	6.5
28	6.5	4.5	8.0	4.5	8.5	5.0	18.0	12.0	21.0	13.5	14.0	6.0
29	10.0	4.5	8.5	5.0	9.5	6.0	15.0	13.0	20.5	13.5	14.5	6.5
30	10.0	6.0	8.5	4.5	10.0	5.5	18.0	12.0	21.0	13.5	14.0	6.0
31	---	---	9.0	4.5	---	---	18.0	13.0	20.5	13.0	---	---
MONTH	10.5	2.0	11.0	3.5	10.0	4.5	18.0	5.5	21.0	10.5	20.0	6.0

13331500 MINAM RIVER AT MINAM, OREG.--Continued
(Hydrologic bench-mark station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
JAN. 28...	392	23	120	6.3	1.9	2.5	1.3	32	0	1.8	.6	.0
MAR. 25...	363	24	80	8.2	1.7	2.5	1.2	32	0	2.0	.8	.3
APR. 26...	935	21	80	6.5	1.4	2.4	1.1	25	0	1.8	.9	.5
MAY 28...	1950	15	120	4.0	.8	1.6	.8	20	0	3.2	.5	.0
AUG. 28...	139	15	40	6.3	1.4	2.4	1.2	26	0	1.3	.6	.0

DATE	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
JAN. 28...	.15	.04	54	57.2	.07	24	0	.2	7.6	56	3.2
MAR. 25...	.03	.04	57	55.9	.08	27	1	.2	7.5	58	3.5
APR. 26...	.01	.09	48	121	.07	22	1	.2	7.5	49	4.5
MAY 28...	.01	--	36	190	.05	13	0	.2	8.1	32	6.1
AUG. 28...	.01	.00	41	15.4	.06	22	0	.2	7.9	41	14.5

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
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DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	ENDRIN (UG/L)	DI- ELDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)
JAN. 28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCR (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	.00	.00	.00	.00	.00	.00	.00	.0	3.0

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	DI- FLORIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
JAN. 28...	.0	.0	.0	.0	.0	.0	.0	0	0

DATE	TIME	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
JAN. 28...	1345	--	--	--	--	2
MAR. 25...	1015	13.5	73	1	2	6
APR. 26...	0950	11.9	32	14	16	12
MAY 28...	1230	10.7	57	27	15	53
AUG. 28...	0945	8.9	--	192	19	1

UMATILLA RIVER BASIN

14020000 UMATILLA RIVER ABOVE MEACHAM CREEK, NEAR GIBBON, OREG.

LOCATION.--Lat 45°43'11", long 118°19'20", in SE¼SW¼ sec.21, T.3 N., R.36 E., Umatilla County, Umatilla Indian Reservation, temperature recorder at gaging station on right bank, 0.8 mi (1.3 km) downstream from Ryan Creek, 2.2 mi (3.5 km) upstream from Meacham Creek, 2.5 mi (4.0 km) northeast of Gibbon, and at mile 83.1 (133.7 km).

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--Water temperatures: June 1959 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 24.0°C Aug. 4; minimum recorded, 1.0°C Dec. 31.

Period of record:

Water temperatures: Maximum, 25.0°C July 13, 15, 21, 1961; minimum, freezing point on several days during winter period in 1960, 1962-64, 1968, 1969, 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	7.0	5.5	6.0	5.5	---	---	5.5	5.5	4.0	3.5
2	12.0	9.5	6.0	6.0	6.0	5.5	---	---	5.5	5.5	4.0	3.5
3	11.0	8.5	6.5	6.0	6.0	5.5	---	---	5.5	5.5	3.5	3.5
4	11.5	8.5	6.5	5.5	5.5	5.0	---	---	5.5	5.5	4.0	3.5
5	11.5	9.0	6.0	5.5	5.0	5.0	---	---	5.5	5.0	4.5	3.5
6	11.0	10.5	6.5	5.5	5.0	5.0	---	---	5.0	4.5	4.5	3.5
7	11.0	9.0	7.0	6.5	5.0	5.0	---	---	5.5	4.5	4.0	3.5
8	10.0	8.0	8.0	7.0	5.0	5.0	---	---	5.5	5.0	---	3.5
9	9.5	7.0	8.0	7.0	5.0	5.0	---	---	5.5	4.5	---	---
10	10.5	8.0	8.0	7.0	5.0	5.0	---	---	5.0	4.5	---	---
11	10.5	9.5	8.0	8.0	5.0	5.0	---	---	5.5	4.5	---	---
12	11.0	10.0	8.0	7.0	5.0	5.0	---	---	5.5	4.5	---	---
13	11.5	10.0	7.0	7.0	5.0	5.0	---	---	5.0	4.5	---	---
14	12.0	10.5	7.0	7.0	5.0	5.0	---	---	5.0	4.5	---	---
15	11.5	9.5	7.0	7.0	5.0	5.0	---	---	5.5	4.5	---	---
16	11.5	9.0	7.0	7.0	5.0	4.5	---	---	5.5	5.0	---	---
17	11.0	9.0	7.0	7.0	4.5	4.5	---	---	5.0	4.5	---	---
18	11.0	9.0	7.0	6.0	4.5	4.0	---	---	5.0	4.5	---	---
19	11.5	9.5	6.0	6.0	4.0	4.0	---	---	5.0	4.5	---	---
20	12.0	10.5	6.5	5.0	4.0	4.0	---	---	5.0	4.5	---	---
21	11.5	11.0	5.5	4.5	4.5	4.0	---	---	4.5	4.0	---	---
22	11.5	10.5	5.5	5.0	4.5	4.0	---	---	4.5	4.0	---	---
23	11.0	10.5	5.5	4.5	4.0	3.5	---	---	4.5	4.0	---	---
24	10.5	10.0	5.0	4.5	4.0	3.5	---	---	4.5	3.5	---	---
25	10.0	9.0	5.0	4.5	3.5	3.5	---	---	4.5	4.0	---	---
26	9.0	7.0	5.5	5.0	3.5	3.0	---	---	4.5	4.0	---	---
27	9.0	8.0	5.5	5.5	3.0	2.0	---	---	4.5	4.0	---	---
28	9.0	9.0	5.5	5.5	3.0	2.0	---	---	4.0	4.0	8.0	---
29	9.5	9.0	6.0	5.5	2.0	1.5	---	---	---	---	8.0	7.0
30	9.0	8.5	6.0	6.0	1.5	1.5	---	---	---	---	8.0	7.0
31	9.0	7.0	---	---	1.5	1.0	5.5	5.5	---	---	8.5	7.0
MONTH	13.5	7.0	8.0	4.5	6.0	1.0	---	---	5.5	3.5	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	8.5	8.0	11.0	6.0	17.0	11.5	18.5	15.5	17.0	12.0
2	8.0	6.5	9.5	7.0	11.5	6.5	17.0	10.5	22.0	15.5	17.0	11.0
3	8.0	6.5	10.0	6.5	9.5	6.5	18.5	10.5	23.0	15.0	18.0	12.0
4	8.5	6.5	10.0	6.5	8.0	7.0	17.0	11.0	24.0	15.5	16.5	11.5
5	8.0	7.0	10.0	6.5	7.0	6.5	15.0	11.5	21.5	15.5	17.0	11.5
6	8.0	7.0	9.0	6.5	7.0	6.5	16.5	10.5	20.5	16.0	16.5	11.5
7	8.5	7.0	9.5	6.5	8.0	5.5	18.0	11.0	20.0	14.0	17.0	11.0
8	9.0	7.0	9.5	6.5	10.5	6.0	16.0	12.0	20.0	13.5	15.0	11.5
9	8.0	7.0	7.0	6.5	11.0	6.0	15.0	12.0	20.5	13.5	14.5	12.0
10	8.0	7.0	7.0	6.5	11.5	6.5	13.0	11.5	20.0	13.5	14.0	12.0
11	8.0	7.0	8.5	6.5	12.0	7.0	15.5	10.5	20.5	14.5	14.0	9.5
12	8.0	7.0	8.0	6.5	12.0	7.0	18.5	10.0	18.5	12.0	13.5	9.0
13	9.5	6.5	8.5	6.0	13.0	8.0	20.0	11.0	19.0	12.0	13.5	8.5
14	10.0	7.0	7.0	6.5	13.5	8.5	21.0	12.0	20.0	13.5	14.0	8.5
15	10.0	8.0	7.0	6.0	13.0	8.5	19.5	13.0	20.0	13.5	14.0	9.0
16	9.5	8.0	8.0	6.0	13.5	8.5	19.5	11.5	19.5	13.0	14.0	9.0
17	10.0	6.5	6.5	5.5	13.5	8.5	18.0	13.0	20.0	13.0	14.0	9.0
18	8.0	7.0	7.0	6.0	14.0	9.0	22.0	13.5	17.0	13.5	14.0	9.5
19	8.0	7.0	7.0	6.0	14.5	9.0	22.0	14.5	15.5	13.0	14.5	10.0
20	8.5	7.0	9.0	6.5	13.0	9.5	21.5	14.0	19.0	13.5	14.0	10.0
21	10.5	7.0	11.0	6.0	15.0	9.0	21.5	13.5	18.5	12.0	14.5	10.0
22	9.0	7.0	11.0	6.0	15.0	10.0	20.5	14.0	16.5	12.0	14.0	10.0
23	8.5	7.0	9.0	6.5	15.0	9.5	21.0	13.5	19.0	13.0	13.5	9.5
24	8.0	7.0	8.0	6.0	15.0	9.5	21.0	13.0	19.5	13.5	14.0	10.0
25	8.5	7.0	10.0	6.0	15.5	9.5	21.0	13.5	20.0	13.5	14.5	10.0
26	8.0	7.0	8.0	6.0	15.0	9.0	21.0	13.0	20.0	13.5	13.0	10.0
27	7.0	7.0	9.5	6.0	16.5	10.5	21.0	13.5	20.0	13.5	12.0	8.5
28	8.5	7.0	9.0	5.5	16.5	10.0	22.0	14.5	20.0	13.5	12.0	8.5
29	10.5	7.0	9.0	5.5	18.5	10.5	18.5	15.0	19.0	13.0	12.0	9.0
30	10.5	8.0	10.0	6.0	19.0	11.0	23.0	14.5	19.0	13.0	12.0	8.5
31	---	---	10.5	6.0	---	---	23.5	15.0	18.5	12.0	---	---
MONTH	10.5	6.5	11.0	5.5	19.0	5.5	23.5	10.0	24.0	12.0	18.0	8.5

14064500 DESCHUTES RIVER AT BENHAM FALLS, NEAR BEND, OREG.

LOCATION.--Lat 43°55'49", long 121°24'39", in SW¼NE¼ sec.16, T.19 S., R.11 E., Deschutes County, temperature recorder at gaging station on right bank, 0.5 mi (0.8 km) upstream from Benham Falls, 10 mi (16 km) southwest of Bend, and at mile 181.4 (291.9 km).

DRAINAGE AREA.--1,759 mi² (4,556 km²).

PERIOD OF RECORD.--Water temperatures: November 1967 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 17.0°C several days; minimum, 0.5°C Jan. 1-6.

Period of record:

Water temperatures: Maximum, 17.0°C on several days in 1968, 1971, and 1974; minimum, freezing point Jan. 23, 26, 1969, Jan. 9, 10, 1973.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	5.5	4.5	3.5	3.5	1.0	0.5	3.0	2.0	3.5	3.0
2	9.5	8.5	4.5	4.0	3.5	3.0	1.0	0.5	3.0	2.0	3.5	3.0
3	8.5	8.0	4.0	3.5	3.0	2.0	1.0	0.5	3.0	2.0	3.5	3.0
4	8.5	8.0	3.5	2.0	2.0	2.0	1.0	0.5	3.0	2.0	3.5	3.0
5	8.5	8.5	2.0	1.0	2.0	2.0	1.5	0.5	3.0	2.0	3.5	3.0
6	8.5	8.5	2.0	1.0	2.0	2.0	1.5	0.5	3.0	2.0	3.5	3.5
7	8.5	8.0	2.0	1.5	2.0	2.0	1.5	1.0	3.5	2.0	3.5	3.0
8	8.0	8.0	3.0	2.0	2.0	2.0	1.5	1.0	3.5	2.0	3.5	2.0
9	8.0	8.0	3.5	3.0	2.0	1.5	1.5	1.0	3.5	3.0	3.5	2.0
10	8.0	7.0	3.5	3.5	1.5	1.0	2.0	1.0	3.5	3.0	4.0	3.5
11	8.0	8.0	3.5	3.5	1.5	1.0	2.0	1.5	3.5	3.0	4.5	4.0
12	8.5	8.0	3.5	3.5	1.5	1.0	2.0	1.5	3.5	3.5	4.5	3.5
13	8.0	8.5	3.5	3.5	1.5	1.0	2.0	2.0	3.5	3.0	4.0	3.5
14	8.5	8.0	3.5	3.0	1.5	1.0	2.0	2.0	3.5	3.0	4.0	3.0
15	8.0	7.0	3.0	3.0	2.0	1.5	2.0	2.0	3.5	3.5	5.0	3.5
16	7.0	6.5	3.0	3.0	2.0	2.0	2.0	2.0	3.5	3.5	5.0	5.0
17	7.0	6.5	3.0	3.0	3.0	2.0	3.0	2.0	3.5	3.0	5.5	5.0
18	7.0	7.0	3.0	2.0	3.0	3.0	3.0	2.0	3.5	3.0	6.0	5.0
19	7.0	6.5	2.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	6.0	5.5
20	6.5	6.5	2.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	6.0	5.0
21	6.5	6.5	2.0	1.5	2.0	2.0	2.0	1.5	3.0	2.0	6.0	5.0
22	6.5	6.5	2.0	2.0	2.0	2.0	1.5	1.5	3.0	2.0	6.0	5.0
23	6.5	6.0	2.0	2.0	2.0	2.0	1.5	1.5	3.5	3.0	6.5	5.5
24	6.0	5.5	2.0	2.0	2.0	2.0	2.0	1.5	4.0	3.0	6.5	5.5
25	5.5	5.0	2.0	2.0	3.0	2.0	2.0	1.5	4.0	4.0	7.0	6.5
26	5.5	4.5	2.0	2.0	2.0	2.0	2.0	1.5	4.0	4.0	7.0	6.5
27	5.5	4.5	2.0	2.0	2.0	2.0	2.0	1.5	4.0	3.5	7.0	6.0
28	5.5	4.5	3.0	2.0	2.0	2.0	2.0	1.5	3.5	3.0	6.0	5.0
29	5.5	4.5	3.5	3.0	2.0	1.5	2.0	2.0	---	---	5.0	5.0
30	5.5	4.5	3.5	3.5	1.5	1.0	2.0	2.0	---	---	5.0	5.0
31	5.5	5.5	---	---	1.5	1.0	2.0	2.0	---	---	5.0	4.5
MONTH	10.5	4.5	5.5	1.0	3.5	1.0	3.0	0.5	4.0	2.0	7.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	10.0	9.5	13.0	12.0	17.0	16.5	16.5	16.0	15.0	14.5
2	4.5	4.0	10.0	9.5	13.5	13.0	16.5	16.0	16.5	16.0	14.5	14.0
3	5.0	4.5	10.5	9.5	13.5	13.5	16.5	16.0	16.5	16.0	14.5	14.0
4	5.5	5.0	10.5	10.0	13.5	11.5	16.5	16.0	16.5	16.0	14.5	14.0
5	5.5	5.0	11.0	10.5	11.5	11.0	16.5	16.0	16.0	15.5	14.5	14.0
6	6.0	5.5	11.5	11.0	11.5	11.5	16.5	16.0	15.5	15.0	14.5	14.0
7	6.5	6.0	12.0	11.5	11.5	11.5	16.0	15.5	15.5	15.0	14.0	13.5
8	6.5	6.5	12.0	11.5	13.0	11.5	15.5	14.5	15.5	14.5	13.5	13.5
9	6.5	6.0	11.5	10.5	14.0	13.0	14.5	14.0	15.0	14.5	13.5	13.5
10	7.0	6.0	10.5	9.5	15.0	14.0	14.0	14.0	15.5	15.0	13.5	13.0
11	7.0	6.5	10.5	9.5	16.0	15.0	14.5	14.0	16.0	15.0	13.5	13.0
12	7.0	6.0	10.5	10.5	16.5	16.0	15.0	14.0	16.0	15.0	13.5	12.0
13	7.0	6.0	10.5	9.5	16.5	16.0	16.0	15.0	15.5	15.0	13.0	12.0
14	7.0	6.5	9.5	8.5	16.5	16.5	17.0	16.0	15.0	14.5	12.0	12.0
15	8.5	7.0	8.5	8.5	16.5	16.5	17.0	16.0	15.0	14.5	12.0	12.0
16	8.5	7.0	8.5	8.0	16.5	16.0	16.5	15.5	15.0	14.5	13.0	12.0
17	8.5	8.0	8.0	7.0	16.5	15.5	16.0	16.0	15.0	15.0	13.0	12.0
18	8.5	8.0	7.0	6.5	17.0	16.0	16.0	16.0	15.0	15.0	13.0	12.0
19	8.5	7.0	8.0	7.0	16.5	15.5	16.5	16.0	15.0	14.0	13.0	12.0
20	8.5	7.0	9.0	8.0	15.5	15.0	17.0	16.5	14.0	14.0	13.0	12.0
21	9.0	8.0	9.5	9.0	15.5	15.0	17.0	16.5	15.0	14.0	13.0	12.0
22	9.0	9.0	10.0	9.5	16.0	15.5	17.0	16.0	15.0	14.5	13.0	12.0
23	9.0	8.5	10.5	10.0	16.0	15.5	16.5	16.0	15.0	14.5	13.0	12.0
24	8.5	8.0	11.0	10.5	16.0	15.5	16.5	16.0	15.0	14.5	12.0	12.0
25	8.5	8.0	12.0	11.0	16.0	15.0	16.5	16.0	15.5	14.5	12.0	11.5
26	8.5	7.0	12.0	11.5	15.0	14.5	16.5	16.0	15.5	15.0	12.0	11.5
27	8.0	7.0	12.0	11.5	15.0	15.0	16.0	15.5	15.5	15.0	12.0	11.0
28	8.5	6.5	13.0	11.5	16.0	15.0	15.5	15.0	15.5	14.5	11.0	11.0
29	9.5	8.5	11.5	11.0	16.5	15.5	16.5	15.5	15.5	15.0	11.0	11.0
30	10.0	9.5	11.5	11.0	17.0	16.0	16.5	16.0	15.0	14.5	11.0	10.5
31	---	---	13.0	11.5	---	---	16.5	16.0	15.0	14.5	---	---
MONTH	10.0	4.0	13.0	6.5	17.0	11.0	17.0	14.0	16.5	14.0	15.0	10.5

14076500 DESCHUTES RIVER NEAR CULVER, OREG.

LOCATION.--Lat 44°29'56", long 121°19'12", in NW¼SE¼ sec.29, T.12 S., R.12 E., Jefferson County, temperature recorder at gaging station on right bank, 2.5 mi (4.0 km) downstream from Squaw Creek, 6.0 mi (9.7 km) southwest of Culver, and at mile 120.6 (194.0 km).

DRAINAGE AREA.--2,705 mi² (7,006 km²).

PERIOD OF RECORD.--Water temperatures: September 1952 to September 1957, January 1959 to August 1961, July 1962 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 15.5°C sometime during period Aug. 28 to Sept. 30; minimum recorded, 4.5°C Jan. 5.

Period of record:

Water temperatures (1952-57, 1962-74); maximum, 18.0°C July 13, 17, 1956; minimum, 1.5°C on several days in 1964 and 1965.

REMARKS.--Recorder stopped Aug. 28 to Sept. 30; range in temperature, 12.0°C to 15.5°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	9.5	9.0	8.5	8.5	6.0	5.5	6.5	6.5	8.0	8.0
2	10.5	10.5	9.0	8.0	8.5	8.0	5.5	5.5	6.5	6.5	8.0	7.0
3	10.5	10.5	8.0	7.0	8.5	8.0	5.5	5.5	6.5	6.5	7.0	7.0
4	10.5	10.5	8.0	7.0	8.5	7.0	5.5	5.0	6.5	6.5	7.0	6.5
5	10.5	10.5	7.0	6.0	8.0	7.0	5.0	4.5	6.5	6.5	8.0	7.0
6	10.5	10.5	6.0	5.5	8.0	7.0	---	---	6.5	6.0	8.0	---
7	10.5	10.0	5.5	5.5	8.0	8.0	---	---	6.0	6.0	---	---
8	10.0	10.0	6.0	5.5	8.0	8.0	---	---	6.5	6.0	---	---
9	10.0	10.0	7.0	6.0	8.0	8.0	---	---	6.5	6.5	---	---
10	10.0	10.0	7.0	7.0	8.0	8.0	---	---	6.5	6.5	---	---
11	10.0	10.0	8.0	7.0	8.0	8.0	---	---	7.0	6.5	---	---
12	10.0	10.0	8.0	8.0	8.0	8.0	---	---	7.0	7.0	7.0	---
13	10.0	10.0	8.0	8.0	8.0	8.0	---	---	7.0	7.0	7.0	7.0
14	10.0	10.0	8.0	7.0	8.0	8.0	---	---	7.0	7.0	7.0	6.5
15	10.0	10.0	7.0	7.0	8.0	8.0	---	---	7.0	7.0	7.0	6.5
16	10.0	10.0	7.0	7.0	8.0	8.0	---	---	8.0	7.0	8.0	7.0
17	10.5	10.0	7.0	7.0	8.0	8.0	5.5	---	8.0	7.0	8.5	8.0
18	10.5	10.0	8.0	7.0	8.0	8.0	6.0	5.5	8.0	8.0	8.5	8.5
19	10.5	10.0	7.0	6.0	8.5	8.0	6.0	6.0	8.0	8.0	8.5	8.5
20	10.5	10.5	6.0	6.0	9.0	8.5	6.0	6.0	8.0	8.0	8.5	8.0
21	10.5	10.5	6.0	6.0	9.0	9.0	6.0	5.0	8.0	8.0	9.0	8.5
22	10.5	10.5	6.0	6.0	9.0	9.0	5.0	5.0	8.0	7.0	9.5	9.0
23	10.5	10.5	6.0	6.0	9.0	8.0	5.5	5.0	7.0	6.5	9.5	9.0
24	10.5	10.5	6.0	6.0	8.0	8.0	5.5	5.5	7.0	6.5	10.0	9.0
25	10.5	9.5	6.5	6.0	8.0	7.0	5.5	5.5	8.5	7.0	10.0	10.0
26	9.5	8.5	6.5	6.5	7.0	6.5	5.5	5.5	8.5	8.5	10.0	9.5
27	9.5	9.0	7.0	6.5	7.0	6.5	5.5	5.5	8.5	8.0	10.0	10.0
28	9.5	9.5	8.0	7.0	7.0	6.5	6.0	5.5	8.0	8.0	10.0	9.5
29	9.5	9.5	8.0	8.0	6.5	6.5	6.0	6.0	---	---	9.5	9.5
30	9.5	9.0	8.5	8.0	6.5	6.5	6.5	6.0	---	---	9.5	9.0
31	9.5	9.0	---	---	6.5	6.0	6.5	6.5	---	---	9.0	8.0
MONTH	10.5	8.5	9.5	5.5	9.0	6.0	---	---	8.5	6.0	10.0	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	11.5	11.0	13.0	12.0	---	---	14.0	13.0	---	---
2	8.5	8.0	11.5	10.5	13.5	13.0	---	---	14.0	13.0	---	---
3	8.0	7.0	12.0	11.0	13.5	13.0	---	---	14.0	13.0	---	---
4	7.0	7.0	12.0	11.0	13.5	13.0	---	---	14.0	13.0	---	---
5	8.0	7.0	13.0	11.5	13.0	11.5	---	---	14.0	13.0	---	---
6	8.5	8.0	13.0	13.0	13.0	11.5	---	---	13.5	13.0	---	---
7	9.0	8.0	13.0	13.0	13.0	11.0	---	---	13.0	12.0	---	---
8	9.0	8.5	13.0	12.0	13.0	11.5	---	---	12.0	11.0	---	---
9	9.0	8.5	13.0	11.5	13.5	12.0	---	---	12.0	11.0	---	---
10	9.0	8.0	11.5	11.0	14.0	13.0	---	---	12.0	11.0	---	---
11	9.0	8.5	12.0	11.5	14.5	13.5	---	---	12.0	11.0	---	---
12	9.0	8.0	12.0	11.5	15.0	13.5	---	---	12.0	11.0	---	---
13	9.0	8.5	12.0	11.5	15.0	13.5	---	---	11.5	11.0	---	---
14	9.5	9.0	12.0	11.5	15.0	13.5	---	---	11.0	11.0	---	---
15	10.5	9.5	12.0	11.0	---	---	---	---	11.5	11.0	---	---
16	10.5	9.5	11.0	11.0	---	---	---	---	11.5	11.0	---	---
17	10.5	10.0	11.5	11.0	---	---	14.0	13.0	11.5	11.0	---	---
18	10.5	10.5	11.0	11.0	---	---	14.0	13.0	12.0	11.5	---	---
19	10.5	10.0	11.0	11.0	---	---	14.5	13.0	12.0	12.0	---	---
20	10.5	10.0	11.0	11.0	---	---	14.5	13.0	13.0	11.5	---	---
21	11.0	10.0	11.5	11.0	---	---	14.0	13.5	13.5	12.0	---	---
22	11.0	11.0	11.5	11.5	---	---	14.0	13.0	13.5	13.0	---	---
23	11.0	10.5	11.5	11.5	---	---	14.0	13.0	13.0	12.0	---	---
24	10.5	10.0	11.5	11.5	---	---	14.0	12.0	13.0	12.0	---	---
25	10.5	10.5	12.0	11.5	---	---	14.0	12.0	13.0	11.5	---	---
26	10.5	10.0	12.0	12.0	---	---	14.0	12.0	13.0	12.0	---	---
27	10.0	9.5	13.0	12.0	---	---	13.5	12.0	13.0	12.0	---	---
28	11.0	10.0	13.0	12.0	---	---	14.0	12.0	---	---	---	---
29	11.5	10.5	13.0	12.0	---	---	14.0	13.5	---	---	---	---
30	11.5	11.5	12.0	11.5	---	---	14.0	13.0	---	---	---	---
31	---	---	13.0	11.5	---	---	14.0	13.5	---	---	---	---
MONTH	11.5	7.0	13.0	10.5	---	---	---	---	14.0	11.0	---	---

14087400 CROOKED RIVER BELOW OPAL SPRINGS, NEAR CULVER, OREG.

LOCATION.--Lat 44°29'33", long 121°17'50", in NW¼NE¼ sec.33, T.12 S., R.12 E., Jefferson County, temperature recorder at gaging station on right bank, 0.2 mi (0.3 km) downstream from Opal Springs, 4.8 mi (7.7 km) southwest of Culver, and at mile 6.7 (10.8 km).

DRAINAGE AREA.--4,300 mi² (11,600 km²), approximately, of which 500 mi² (1,300 km²) is probably noncontributing.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 14.0°C on several days during October, June to August; minimum recorded, 6.5°C Jan. 19-31.

Period of record:

Water temperatures: Maximum, 15.0°C on many days in 1964 and 1969; minimum, 4.0°C Dec. 29, 30, 1964.

REMARKS.--Recorder stopped June 26 to July 18; range in temperature, 13.5°C to 13.5°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	14.0	12.0	12.0	12.0	12.0	8.5	8.0	---	---	---	---
2	14.0	14.0	12.0	12.0	12.0	12.0	8.0	7.0	---	---	---	---
3	14.0	13.5	12.0	12.0	12.0	12.0	8.5	8.0	---	---	---	---
4	13.5	13.5	12.0	12.0	12.0	12.0	9.0	8.5	---	---	---	---
5	13.5	13.5	12.0	12.0	12.0	11.5	9.0	9.0	---	---	---	---
6	13.5	13.5	13.0	12.0	11.5	11.5	9.5	9.0	---	---	---	---
7	13.5	13.5	13.0	13.0	11.5	11.5	9.5	9.5	---	---	---	---
8	13.5	13.5	13.0	13.0	11.5	11.0	9.5	9.5	---	---	---	---
9	13.5	13.5	13.0	13.0	11.5	11.0	9.5	9.5	---	---	---	---
10	13.5	13.0	13.0	13.0	11.5	11.0	9.5	9.5	---	---	---	---
11	13.0	13.0	13.0	13.0	11.5	10.5	9.5	9.5	---	---	---	---
12	13.0	13.0	13.0	13.0	10.5	10.0	9.5	9.5	---	---	---	---
13	13.0	13.0	13.0	13.0	10.0	9.5	9.5	9.5	---	---	10.0	10.0
14	13.0	13.0	13.0	13.0	9.5	9.5	9.5	9.5	---	---	10.0	10.0
15	13.0	13.0	13.0	13.0	9.5	9.5	9.5	9.5	---	---	10.0	10.0
16	13.0	13.0	13.0	13.0	9.5	9.5	9.5	9.5	---	---	10.0	10.0
17	13.0	13.0	13.0	12.0	10.5	9.5	9.5	8.0	---	---	10.0	10.0
18	13.0	13.0	12.0	11.5	11.0	9.5	8.0	8.0	---	---	10.0	10.0
19	13.0	13.0	11.5	11.5	9.5	9.0	8.0	6.5	---	---	10.5	10.0
20	13.0	13.0	11.5	11.5	9.0	9.0	6.5	6.5	---	---	10.0	9.5
21	13.0	13.0	11.5	11.5	9.0	9.0	6.5	6.5	---	---	9.5	9.0
22	13.0	13.0	11.5	11.5	9.0	9.0	6.5	6.5	---	---	9.5	9.0
23	13.0	13.0	11.5	11.0	9.0	9.0	6.5	6.5	---	---	9.5	9.5
24	13.0	12.0	11.5	11.0	9.0	9.0	6.5	6.5	---	---	9.5	9.5
25	13.0	12.0	11.0	11.0	9.0	8.5	6.5	6.5	---	---	9.5	9.5
26	13.0	12.0	11.0	11.0	8.5	8.0	6.5	6.5	---	---	9.5	9.5
27	13.0	12.0	12.0	11.0	8.0	8.0	6.5	6.5	---	---	9.5	9.5
28	13.0	12.0	12.0	12.0	8.0	8.0	6.5	6.5	---	---	9.5	9.5
29	13.0	12.0	12.0	12.0	8.5	8.0	6.5	6.5	---	---	9.5	9.5
30	12.0	12.0	12.0	12.0	8.5	8.0	6.5	6.5	---	---	9.5	9.0
31	12.0	12.0	---	---	8.5	8.0	7.0	6.5	---	---	9.0	8.5
MONTH	14.0	12.0	13.0	11.0	12.0	8.0	9.5	6.5	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.5	12.0	11.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5
2	9.0	8.5	12.0	11.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5
3	9.0	9.0	12.0	11.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5
4	9.0	9.0	12.0	11.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5
5	9.0	9.0	13.0	12.0	13.5	13.5	---	---	14.0	13.5	13.5	13.5
6	9.0	9.0	13.0	12.0	13.5	13.5	---	---	13.5	13.5	13.5	13.5
7	9.5	9.0	13.0	13.0	13.5	13.5	---	---	13.5	13.5	13.5	13.5
8	10.0	9.5	13.0	13.0	13.5	13.5	---	---	13.5	13.5	13.5	13.5
9	10.0	10.0	13.0	13.0	13.5	13.5	---	---	13.5	13.5	13.5	13.5
10	10.0	10.0	13.0	11.5	14.0	13.5	---	---	13.5	13.0	13.5	13.0
11	10.5	10.0	12.0	11.5	14.0	14.0	---	---	13.5	13.0	13.5	13.0
12	10.0	10.0	12.0	12.0	14.0	14.0	---	---	13.5	13.0	13.0	13.0
13	10.0	10.0	12.0	11.5	14.0	14.0	---	---	13.5	13.0	13.0	13.0
14	10.5	10.0	11.5	11.5	14.0	14.0	---	---	13.0	13.0	13.0	12.0
15	11.0	10.5	11.5	11.5	14.0	14.0	---	---	13.0	13.0	13.0	12.0
16	11.0	11.0	11.5	11.5	14.0	14.0	---	---	13.0	13.0	13.0	12.0
17	11.5	11.0	12.0	11.5	14.0	14.0	---	---	13.0	13.0	13.0	12.0
18	11.5	11.5	12.0	12.0	14.0	14.0	---	---	13.0	13.0	12.0	12.0
19	11.5	11.0	12.0	12.0	14.0	14.0	13.5	13.5	13.0	13.0	12.0	12.0
20	11.0	10.5	12.0	12.0	14.0	14.0	13.5	13.5	13.5	13.0	12.0	12.0
21	11.0	11.0	13.0	12.0	14.0	13.5	13.5	13.5	13.5	13.5	12.0	12.0
22	11.5	11.0	13.0	13.0	14.0	13.5	13.5	13.5	13.5	13.5	13.0	12.0
23	11.5	11.0	13.5	13.0	14.0	13.5	13.5	13.5	13.5	13.5	13.0	13.0
24	11.0	11.0	13.0	13.0	13.5	13.5	13.5	13.5	13.5	13.5	13.0	13.0
25	11.0	11.0	13.5	13.0	13.5	13.5	13.5	13.5	13.5	13.5	13.0	13.0
26	11.0	10.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5	13.0	13.0
27	11.0	10.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5	13.0	13.0
28	11.0	10.5	13.5	13.5	---	---	13.5	13.5	13.5	13.5	13.0	13.0
29	11.5	11.0	13.5	13.5	---	---	14.0	13.5	13.5	13.5	13.0	13.0
30	12.0	11.5	13.5	13.5	---	---	14.0	14.0	13.5	13.5	13.0	13.0
31	---	---	13.5	13.5	---	---	14.0	14.0	13.5	13.5	---	---
MONTH	12.0	8.5	13.5	11.5	14.0	13.5	---	---	14.0	13.0	13.5	12.0

DESCHUTES RIVER BASIN

14091500 METOLIUS RIVER NEAR GRANDVIEW, OREG.

LOCATION.—Lat 44°37'33", long 121°28'55", in SE¼SW¼ sec.12, T.11 S., R.10 E., Jefferson County, temperature recorder at gaging station on right bank, 1.0 mi (1.6 km) upstream from maximum controlled pool of Lake Billy Chinook, 15.0 mi (24.1 km) northwest of Culver, and at mile 13.6 (21.9 km).

DRAINAGE AREA.—316 mi² (818 km²) at cableway 1.0 mi (1.6 km) downstream, where all discharge measurements are made. Hydrologic drainage boundary uncertain owing to ground-water exchange.

PERIOD OF RECORD.—Water temperatures: July 1952 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum, 11.0°C on several days during July and August; minimum, 2.0°C Jan. 2-12.

Period of record:

Water temperatures: Maximum, 13.5°C July 5, 1957; minimum, 2.0°C Jan. 2-12, 1974.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.0	7.0	6.0	6.0	6.0	3.5	3.0	4.5	4.0	4.5	4.5
2	7.0	5.5	6.0	5.5	6.0	5.5	3.0	2.0	4.5	4.0	4.5	4.0
3	7.0	5.5	6.0	5.5	5.5	5.5	3.0	2.0	4.5	4.0	4.5	3.5
4	8.0	5.5	5.5	5.5	5.5	5.5	2.0	2.0	4.5	4.0	5.0	4.5
5	8.0	6.0	5.5	3.5	6.0	5.5	2.0	2.0	4.5	3.5	5.0	4.5
6	8.0	6.5	6.0	3.5	6.0	5.5	2.0	2.0	4.5	3.5	5.0	4.0
7	7.0	6.0	6.0	5.5	6.0	5.5	3.0	2.0	4.5	3.5	4.5	3.5
8	7.0	5.5	6.0	6.0	5.5	5.0	2.0	2.0	4.5	3.5	5.0	3.5
9	7.0	5.5	6.0	6.0	5.0	5.0	2.0	2.0	4.5	3.5	5.5	4.0
10	8.0	6.0	6.0	5.5	5.0	5.0	3.0	2.0	4.5	3.5	5.0	4.5
11	8.0	6.5	6.0	6.0	5.5	5.0	3.0	2.0	5.0	4.0	5.5	4.5
12	8.0	6.5	6.0	6.0	5.5	5.0	4.0	2.0	5.0	4.0	5.0	4.5
13	8.0	7.0	6.0	6.0	5.5	5.0	4.5	4.0	4.5	4.0	4.5	3.5
14	8.0	6.5	6.0	5.5	5.5	5.0	4.5	4.0	5.0	4.5	4.5	3.5
15	8.0	6.5	6.5	6.0	6.0	5.5	4.0	3.0	5.0	4.5	5.0	4.5
16	8.0	6.5	6.0	6.0	6.0	6.0	3.5	3.0	4.5	4.5	5.5	4.5
17	8.0	6.5	6.0	6.0	6.0	5.5	3.5	3.5	4.5	4.0	5.5	4.5
18	8.0	6.5	6.0	5.5	5.5	5.0	4.0	3.5	4.5	4.5	5.5	4.0
19	8.0	6.5	5.5	5.0	5.5	5.0	4.0	3.5	4.5	4.0	5.5	4.0
20	8.0	7.0	6.0	5.5	5.5	5.5	3.5	3.5	4.5	4.0	5.5	3.5
21	8.0	7.0	5.5	5.0	5.5	5.5	3.5	3.0	4.5	4.5	5.5	4.0
22	8.0	7.0	5.5	5.5	5.5	5.0	4.0	3.5	4.5	3.5	5.5	4.5
23	8.0	7.0	5.5	5.5	5.5	5.5	4.5	4.0	4.5	3.5	5.5	4.0
24	8.0	6.5	6.0	5.5	6.0	5.0	4.5	3.5	4.5	4.0	6.0	4.5
25	7.0	6.5	5.5	5.5	5.0	5.0	4.5	4.0	5.0	4.5	6.0	5.5
26	7.0	6.0	5.5	5.5	5.0	4.5	4.0	3.5	5.0	4.5	6.0	5.0
27	8.0	6.5	6.5	5.5	5.0	4.5	4.0	4.0	4.5	4.0	6.0	5.5
28	8.0	6.5	6.5	6.0	5.0	5.0	4.5	4.0	4.5	4.0	6.0	5.5
29	7.0	6.0	6.5	6.0	5.0	4.5	4.5	4.0	---	---	6.0	5.0
30	7.0	6.0	6.5	6.0	4.5	4.0	4.5	4.0	---	---	6.0	5.0
31	8.0	7.0	---	---	4.5	3.5	4.5	4.5	---	---	5.5	5.0
MONTH	8.0	5.5	7.0	3.5	6.0	3.5	4.5	2.0	5.0	3.5	6.0	3.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.0	9.0	7.0	9.5	6.0	9.5	6.5	10.5	8.5	9.5	8.0
2	6.0	5.0	9.0	6.5	9.5	6.5	9.5	6.0	11.0	8.5	9.5	8.0
3	6.0	5.0	9.5	6.5	8.5	6.5	9.5	6.0	11.0	8.5	9.5	8.0
4	6.0	5.0	9.5	7.0	8.5	7.0	8.5	6.5	11.0	8.5	9.5	8.0
5	6.0	5.5	10.0	7.0	7.0	6.0	9.0	7.0	10.5	9.0	9.5	7.0
6	6.0	5.0	9.0	7.0	7.0	5.5	9.0	6.0	11.0	9.0	9.0	7.0
7	6.5	5.0	9.5	7.0	8.0	5.0	8.5	6.5	10.5	8.0	9.0	7.0
8	6.5	5.5	9.5	7.0	8.5	5.5	8.0	6.5	10.5	8.0	9.0	7.0
9	6.0	5.5	8.5	6.5	8.5	5.5	8.0	6.5	10.5	8.0	9.0	8.0
10	6.5	5.0	8.5	6.5	9.0	6.0	8.0	6.0	10.5	8.0	8.5	7.0
11	6.5	5.5	8.0	6.5	9.0	6.5	9.0	6.0	10.5	8.5	8.5	6.5
12	6.5	5.0	8.0	6.5	9.5	6.5	9.5	6.5	10.0	8.0	8.5	6.5
13	6.5	5.0	8.0	6.0	9.5	6.5	10.0	7.0	9.0	7.0	8.0	6.0
14	8.0	5.5	8.0	6.5	9.5	6.5	10.5	8.0	9.5	7.0	8.0	6.0
15	8.0	6.0	7.0	6.0	9.5	6.5	9.5	8.0	9.5	7.0	8.0	6.0
16	8.0	5.5	8.0	6.0	9.5	7.0	9.0	6.5	10.0	7.0	8.5	6.5
17	8.0	6.0	7.0	6.0	10.0	6.5	9.0	8.0	10.0	8.0	8.5	6.5
18	8.0	6.5	7.0	6.0	10.0	7.0	9.5	8.0	9.5	8.0	8.5	6.5
19	8.0	6.0	8.5	6.0	9.5	7.0	10.5	8.0	8.5	7.0	8.5	6.5
20	8.0	6.0	8.5	6.0	9.5	6.5	10.5	7.0	9.5	7.0	8.5	6.5
21	9.0	6.0	9.0	6.0	9.5	6.5	10.5	8.0	9.5	7.0	8.5	6.5
22	8.5	6.5	9.0	6.5	9.5	7.0	10.5	8.0	9.0	8.0	9.0	6.5
23	8.0	6.5	8.5	7.0	9.5	6.5	10.5	8.0	9.5	8.0	9.0	6.5
24	8.5	6.5	8.5	7.0	10.0	7.0	10.5	8.0	10.0	8.0	8.5	6.5
25	8.0	6.5	10.0	7.0	9.0	7.0	10.5	8.0	10.5	8.0	9.0	6.5
26	8.0	6.0	10.0	7.0	8.0	6.0	10.0	8.0	10.5	8.5	9.0	7.0
27	8.5	6.5	9.0	6.0	9.5	6.5	10.0	8.0	10.5	8.5	8.5	6.5
28	9.5	6.5	8.5	6.0	9.5	6.0	10.5	8.5	11.0	8.5	8.5	6.5
29	9.5	6.5	9.0	6.0	10.0	6.5	10.5	8.5	10.0	8.0	9.0	6.5
30	9.5	7.0	9.0	6.0	10.0	6.5	11.0	8.5	10.0	8.0	9.0	6.5
31	---	---	9.0	6.0	---	---	11.0	8.5	10.0	8.0	---	---
MONTH	9.5	5.0	10.0	6.0	10.0	5.0	11.0	6.0	11.0	7.0	9.5	6.0

14092500 DESCHUTES RIVER NEAR MADRAS, OREG.

LOCATION.—Lat 44°43'34", long 121°14'45", in SE¼SW¼ sec.1, T.10 S., R.12 E., Jefferson County, temperature recorder at gaging station on right bank, 400 ft (123 m) downstream from reregulating dam, 2.7 mi (4.3 km) downstream from Pelton Dam, 8.5 mi (13.7 km) north-west of Madras, and at mile 100.1 (161.1 km).

DRAINAGE AREA.—7,820 mi² (20,300 km²), approximately.

PERIOD OF RECORD.—Water temperatures: October 1971 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum recorded, 16.0°C July 25-31; minimum, 6.0°C on many days during January and February.

Period of record:

Water temperatures: Maximum, 16.0°C Aug. 6-8, 1973, July 25-31, 1974; minimum, 5.5°C on many days during February and March 1972.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	11.5	11.5	9.5	9.5	8.5	8.5	6.5	6.5	6.5	6.5
2	14.5	14.0	11.5	11.5	9.5	9.5	8.5	8.0	6.5	6.5	6.5	6.5
3	14.0	13.5	11.5	11.5	9.5	9.0	8.0	8.0	6.5	6.0	6.5	6.5
4	14.0	13.5	11.5	11.5	9.0	9.0	8.0	8.0	6.5	6.0	6.5	6.5
5	14.0	13.5	11.5	11.0	9.0	9.0	8.0	8.0	6.5	6.0	6.5	6.5
6	14.0	13.5	11.0	11.0	9.0	9.0	8.0	7.0	6.5	6.0	6.5	6.5
7	13.5	13.5	11.0	11.0	9.0	9.0	7.0	7.0	6.5	6.0	6.5	6.5
8	13.5	13.5	11.0	11.0	9.0	9.0	7.0	7.0	6.5	6.0	6.5	6.5
9	13.5	13.0	11.0	11.0	9.0	9.0	7.0	7.0	6.5	6.0	6.5	6.5
10	13.5	13.0	11.0	11.0	9.0	9.0	7.0	6.5	6.5	6.0	6.5	6.5
11	13.5	13.0	11.0	11.0	9.0	9.0	6.5	6.5	6.5	6.0	6.5	6.5
12	13.5	13.0	11.0	11.0	9.0	9.0	6.5	6.5	6.5	6.0	6.5	6.5
13	13.0	12.0	11.0	11.0	9.0	9.0	6.5	6.5	6.5	6.0	7.0	6.5
14	13.0	12.0	11.0	10.5	9.0	9.0	6.5	6.5	6.5	6.0	7.0	7.0
15	13.0	12.0	10.5	10.5	9.0	9.0	6.5	6.5	6.5	6.0	7.0	7.0
16	13.0	12.0	10.5	10.5	9.0	9.0	6.5	6.0	6.5	6.0	7.0	7.0
17	13.0	12.0	10.5	10.5	9.0	9.0	6.0	6.0	6.5	6.0	7.0	7.0
18	12.0	12.0	10.5	10.5	9.0	9.0	6.0	6.0	6.5	6.0	7.0	7.0
19	12.0	12.0	10.5	10.5	9.0	9.0	6.0	6.0	6.5	6.0	7.0	7.0
20	12.0	12.0	10.5	10.5	9.0	9.0	6.0	6.0	6.5	6.0	7.0	7.0
21	12.0	12.0	10.5	10.0	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
22	12.0	12.0	10.0	10.0	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
23	12.0	12.0	10.0	10.0	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
24	12.0	11.5	10.0	10.0	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
25	11.5	11.5	10.0	10.0	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
26	11.5	11.5	10.0	9.5	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
27	11.5	11.5	9.5	9.5	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
28	11.5	11.0	9.5	9.5	9.0	9.0	6.0	6.0	6.5	6.5	7.0	7.0
29	11.5	11.0	9.5	9.5	9.0	9.0	6.5	6.0	---	---	7.0	7.0
30	11.5	11.0	9.5	9.5	9.0	9.0	6.5	6.5	---	---	7.0	7.0
31	11.5	11.5	---	---	9.0	8.5	6.5	6.5	---	---	7.0	7.0
MONTH	14.5	11.0	11.5	9.5	9.5	8.5	8.5	6.0	6.5	6.0	7.0	6.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	8.5	8.5	10.5	10.5	14.0	13.5	---	---	---	---
2	7.0	7.0	9.0	8.5	11.0	10.5	14.0	13.5	---	---	---	---
3	7.0	7.0	9.5	9.0	11.0	10.5	14.0	14.0	---	---	---	---
4	7.0	7.0	10.0	9.5	11.0	10.5	14.0	14.0	---	---	---	---
5	7.0	7.0	10.0	10.0	11.0	10.5	14.0	14.0	---	---	---	---
6	7.0	7.0	10.0	10.0	11.0	10.5	14.0	14.0	---	---	---	---
7	7.0	7.0	10.0	10.0	11.0	10.5	14.0	14.0	---	---	---	---
8	7.0	7.0	10.0	10.0	11.0	10.5	14.0	14.0	---	---	---	---
9	7.0	7.0	10.0	10.0	11.0	10.5	14.0	14.0	---	---	---	---
10	8.0	7.0	10.0	10.0	11.0	11.0	14.5	14.0	---	---	---	---
11	8.0	8.0	10.0	10.0	11.5	11.0	14.5	14.5	---	---	---	---
12	8.0	8.0	10.0	10.0	12.0	11.5	14.5	14.5	---	---	---	---
13	8.0	8.0	10.0	10.0	12.0	12.0	14.5	14.5	---	---	---	---
14	8.0	8.0	10.0	10.0	12.0	12.0	15.0	14.5	---	---	---	---
15	8.5	8.0	10.0	10.0	13.0	12.0	15.0	14.5	---	---	---	---
16	8.5	8.5	10.0	10.0	13.0	12.0	15.0	14.5	---	---	---	---
17	8.5	8.5	10.0	10.0	13.0	12.0	15.0	14.5	---	---	---	---
18	8.5	8.5	10.0	10.0	13.0	13.0	15.0	14.5	---	---	---	---
19	8.5	8.5	10.0	10.0	13.0	13.0	15.5	15.0	---	---	---	---
20	8.5	8.5	10.0	10.0	13.0	13.0	15.5	15.5	---	---	---	---
21	8.5	8.5	10.0	10.0	13.0	13.0	15.5	15.5	---	---	---	---
22	8.5	8.5	10.5	10.0	13.0	13.0	15.5	15.5	---	---	---	---
23	8.5	8.5	10.5	10.5	13.0	13.0	15.5	15.5	---	---	---	---
24	8.5	8.5	10.5	10.5	13.0	13.0	15.5	15.5	---	---	---	---
25	8.5	8.5	10.5	10.5	13.0	13.0	16.0	15.5	---	---	---	---
26	8.5	8.5	10.5	10.5	13.0	13.0	16.0	15.5	---	---	---	---
27	8.5	8.5	10.5	10.5	13.0	13.0	16.0	15.5	---	---	---	---
28	8.5	8.5	10.5	10.5	13.5	13.0	16.0	16.0	---	---	---	---
29	8.5	8.5	10.5	10.5	13.5	13.0	16.0	16.0	---	---	---	---
30	8.5	8.5	10.5	10.5	13.5	13.0	16.0	16.0	---	---	---	---
31	---	---	10.5	10.5	---	---	16.0	16.0	---	---	---	---
MONTH	8.5	7.0	10.5	8.5	13.5	10.5	16.0	13.5	---	---	---	---

DESCHUTES RIVER BASIN

14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OREG.

LOCATION.--Lat 45°37'20", long 120°54'05", in SE¼ sec.26, T.2 N., R.15 E., Sherman County, temperature recorder at gaging station on right bank, 4.0 mi (6.4 km) southwest of Biggs, and at mile 1.4 (2.3 km).

DRAINAGE AREA.--10,500 mi² (27,200 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1911 to July 1912, December 1952 to February 1954.

Water temperatures: December 1952 to February 1954, November 1954 to September 1958, June 1962 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.0°C Aug. 3; minimum, 3.5°C Jan. 5-13.

Period of record:

Water temperatures: Maximum, 22.0°C July 12, 13, 1964; minimum, 0.5°C Dec. 30, 1955.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.0	11.0	10.0	8.5	8.0	5.5	4.5	6.5	6.0	6.5	6.5
2	13.5	12.0	10.0	9.5	8.0	7.0	4.5	4.5	6.0	5.5	6.5	6.0
3	13.5	12.0	9.5	9.0	8.0	7.0	4.5	4.0	6.0	6.0	6.0	5.5
4	13.5	12.0	9.0	8.5	7.0	6.5	4.0	4.0	6.5	6.0	7.0	6.0
5	13.5	12.0	8.5	8.0	6.5	6.5	4.0	3.5	6.0	5.5	8.0	7.0
6	13.5	13.5	8.0	7.0	7.0	6.5	3.5	3.5	5.5	5.5	8.0	7.0
7	13.5	12.0	9.0	8.0	8.0	7.0	3.5	3.5	6.0	5.5	7.0	6.5
8	13.0	11.5	9.0	9.0	8.0	6.5	3.5	3.5	6.0	5.5	7.0	6.0
9	12.0	11.5	9.0	9.0	6.5	6.5	3.5	3.5	6.0	5.5	8.0	6.5
10	12.0	11.5	9.5	9.0	6.5	6.5	3.5	3.5	6.0	6.0	8.0	8.0
11	12.0	12.0	9.5	9.5	6.5	6.5	3.5	3.5	6.5	6.0	9.0	8.0
12	13.0	12.0	9.5	9.0	6.5	6.5	3.5	3.5	6.0	6.0	8.5	7.0
13	13.5	13.0	9.0	9.0	7.0	6.5	4.5	3.5	6.0	6.0	7.0	6.5
14	14.0	13.0	9.0	9.0	7.0	7.0	5.0	4.0	7.0	6.0	7.0	7.0
15	13.5	13.0	9.0	9.0	8.5	7.0	4.5	4.0	7.0	7.0	7.0	6.5
16	13.5	12.0	9.0	9.0	9.0	8.5	4.5	4.5	7.0	7.0	7.0	7.0
17	13.5	12.0	9.0	8.5	9.0	8.5	4.5	4.5	7.0	6.5	8.5	7.0
18	13.5	13.0	8.5	8.0	8.5	7.0	5.0	4.5	6.5	6.5	9.0	8.0
19	13.5	13.0	8.0	8.0	7.0	7.0	5.0	5.0	6.5	6.0	9.0	8.0
20	13.5	13.0	9.0	8.0	8.0	7.0	5.0	4.5	6.0	6.0	8.5	7.0
21	13.5	13.5	8.5	8.5	8.5	8.0	4.5	4.0	6.0	6.0	9.0	7.0
22	13.5	12.0	8.5	8.0	8.5	8.0	4.5	4.0	6.0	6.0	9.5	8.5
23	13.0	12.0	8.5	8.0	8.0	8.0	5.5	4.5	6.0	6.0	9.5	8.5
24	12.0	11.5	8.0	8.0	8.0	7.0	5.5	5.5	6.5	6.0	9.5	8.5
25	11.5	11.0	8.0	8.0	7.0	6.5	6.0	5.5	7.0	6.5	9.5	9.0
26	11.0	10.5	8.0	8.0	6.5	6.0	6.0	5.5	7.0	7.0	10.0	9.0
27	11.0	11.0	8.5	8.0	6.0	6.0	6.0	5.5	7.0	6.5	9.5	9.5
28	11.0	11.0	8.5	8.0	6.5	6.0	6.0	5.5	7.0	6.5	9.5	9.0
29	11.0	10.5	8.5	8.0	6.5	6.5	6.0	5.5	---	---	10.0	9.0
30	11.0	11.0	8.5	8.0	6.5	6.0	6.0	5.5	---	---	9.5	8.5
31	11.0	11.0	---	---	6.0	5.5	6.5	6.0	---	---	8.5	8.5
MONTH	15.0	10.5	11.0	7.0	9.0	5.5	6.5	3.5	7.0	5.5	10.0	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.5	11.5	10.5	15.0	12.0	18.0	15.5	19.5	18.5	18.0	16.5
2	8.5	8.5	11.5	10.0	15.5	13.5	16.5	15.0	19.0	18.0	17.0	15.5
3	9.0	8.5	12.0	10.5	15.0	14.0	18.0	15.0	21.0	18.5	17.0	15.5
4	8.5	8.5	13.0	11.0	14.0	13.0	17.0	16.0	20.5	18.5	18.0	16.0
5	8.5	8.5	14.0	11.5	13.0	11.5	16.5	15.5	19.5	18.0	18.0	15.5
6	9.0	8.5	14.0	12.0	13.0	11.5	16.5	14.5	19.0	17.0	18.0	15.5
7	9.0	8.5	13.5	12.0	13.5	11.0	16.5	14.5	18.0	16.0	17.0	15.5
8	9.0	9.0	14.0	12.0	14.0	11.5	16.5	15.5	18.5	15.5	17.0	16.0
9	9.0	8.5	13.0	11.5	14.5	12.0	15.5	14.5	19.0	16.0	16.5	15.5
10	9.5	8.0	11.5	10.5	15.5	13.5	15.0	14.0	19.0	16.5	16.0	14.5
11	9.5	9.0	11.5	10.5	16.0	14.0	15.0	13.5	18.5	16.0	16.0	14.0
12	9.5	8.5	12.0	10.5	16.5	14.5	16.5	13.5	18.0	15.5	15.5	14.5
13	10.0	8.5	11.0	10.5	16.5	14.5	18.0	15.0	17.0	15.5	15.0	13.5
14	10.5	9.0	10.5	10.0	16.5	15.0	18.5	16.0	16.0	14.5	15.5	13.5
15	11.0	9.5	11.0	10.0	16.0	15.0	18.0	16.0	18.0	15.0	15.5	14.0
16	11.0	9.5	11.5	10.0	16.5	14.5	16.5	15.5	18.5	16.0	16.0	14.5
17	11.5	10.0	12.0	10.5	17.0	15.0	18.0	15.0	19.0	16.5	16.5	14.5
18	11.5	10.5	11.0	10.5	17.0	15.5	18.0	16.0	18.5	16.0	16.5	14.5
19	10.5	9.5	12.0	10.5	16.5	15.5	19.0	16.5	17.0	15.5	16.0	14.5
20	11.0	9.0	13.5	11.0	16.0	15.0	19.0	16.5	16.5	14.5	16.0	14.5
21	12.0	10.0	14.0	11.0	16.5	14.5	18.0	16.5	17.0	15.0	16.0	14.5
22	13.0	11.0	14.0	12.0	17.0	15.0	19.0	16.5	18.0	15.5	16.0	14.5
23	11.5	10.0	14.5	13.0	16.5	15.0	19.0	16.5	17.0	16.0	16.0	14.5
24	11.0	9.5	14.5	13.0	16.5	14.5	19.0	16.5	18.5	16.0	15.5	14.5
25	11.5	10.0	15.5	13.0	16.5	14.5	19.0	16.5	18.5	16.5	15.5	14.5
26	10.5	9.5	15.5	14.0	15.0	14.0	19.0	16.5	19.0	16.5	15.5	14.5
27	10.0	9.5	15.0	13.5	15.5	13.5	19.0	16.5	19.0	16.5	14.5	13.5
28	11.5	9.5	14.5	13.0	17.0	14.5	20.0	17.0	19.0	16.5	14.5	13.5
29	12.0	10.5	14.0	12.0	18.5	15.5	20.0	18.5	19.0	16.5	14.5	13.5
30	13.0	11.0	14.0	12.0	19.0	16.0	20.5	18.5	19.0	16.5	14.5	13.5
31	---	---	14.5	11.5	---	---	20.0	18.5	19.0	16.5	---	---
MONTH	13.0	8.0	15.5	10.0	19.0	11.0	20.5	13.5	21.0	14.5	18.0	13.5

14105700 COLUMBIA RIVER NEAR THE DALLES, OREG.

LOCATION.--Lat 45°36'10", long 121°10'40", in NW¼ sec. 3, T.1 N., R.13 E., Wasco County, at The Dalles Dam, 3.2 mi (5.1 km) upstream from gaging station, and 2.6 mi (4.2 km) northeast of The Dalles.

DRAINAGE AREA.--237,000 mi² (613,800 km²), approximately (upstream from gaging station).

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1974.

Water temperatures: December 1950 to September 1969, October 1973 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum daily, 254 micromhos/cm Dec. 2; minimum daily, 133 micromhos/cm July 18.

Water temperatures: Maximum daily, 21.0°C Aug. 3-11, Sept. 1-5, 7-10; minimum daily, 1.5°C Jan. 13-19.

Period of record:

Specific conductance: Maximum daily, 324 micromhos/cm Dec. 7, 1955; minimum daily, 95 micromhos/cm June 8, 1972.

Water temperatures: Maximum daily, 27.0°C Aug. 12, 13, 1958; minimum daily, freezing point on several days during winter months of several years.

REMARKS.--No appreciable inflow between sampling point and gaging station except during periods of heavy local runoff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 07...	95300	5.9	220	22	5.1	7.9	1.6	82	0	16	3.4	.3
NOV. 21...	127000	10	30	24	6.5	10	1.8	94	0	19	4.6	.3
JAN. 08...	160000	13	30	22	6.1	8.5	1.6	87	0	16	3.7	.3
APR. 19...	331000	16	210	21	5.9	7.7	1.7	80	0	15	3.6	.7
JULY 18...	228000	7.5	50	14	3.8	3.7	1.0	57	0	9.2	1.0	.1
AUG. 21...	144000	5.4	120	16	4.1	3.5	1.0	65	0	8.1	1.9	.1

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT. 07...	.12	.08	103	26500	.14	76	9	.4	7.6	177	--
NOV. 21...	.23	.19	124	42500	.17	87	10	.5	8.0	209	8.5
JAN. 08...	.46	.06	116	50100	.16	80	9	.4	7.9	197	2.0
APR. 19...	.28	.12	112	100000	.15	77	11	.4	7.8	184	9.0
JULY 18...	.00	.01	68	41900	.09	51	4	.2	7.7	116	17.5
AUG. 21...	.10	--	73	28400	.10	57	4	.2	7.7	125	19.0

COLUMBIA RIVER MAIN STEM

14105700 COLUMBIA RIVER NEAR THE DALLES, OREG.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) + WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	179	---	202	218	169	202	204	196	161	156	156
2	176	181	254	202	220	172	194	205	195	158	156	156
3	176	179	246	203	222	175	192	205	190	156	156	155
4	176	180	---	202	229	180	191	206	187	152	156	155
5	176	191	---	202	221	186	191	206	180	152	157	153
6	182	195	235	199	219	191	193	209	178	150	157	152
7	179	192	229	---	218	188	201	208	166	149	157	151
8	183	191	228	191	208	186	194	211	163	149	158	150
9	183	185	214	207	201	189	193	211	157	149	157	149
10	169	184	---	206	202	191	188	212	158	146	158	149
11	187	183	194	204	198	190	184	215	150	144	158	148
12	188	186	189	200	195	193	181	217	149	142	158	149
13	186	187	180	197	192	196	176	217	144	140	158	150
14	186	196	183	193	175	193	175	221	143	139	159	150
15	186	202	191	186	176	192	179	220	142	138	159	150
16	185	203	195	181	180	196	181	221	140	138	158	152
17	189	205	194	178	179	199	182	223	138	136	159	152
18	---	197	192	173	179	199	185	224	139	133	159	153
19	187	---	---	174	181	199	192	225	138	136	159	154
20	183	---	196	171	179	200	192	221	149	139	160	154
21	180	206	---	169	179	200	194	220	145	141	162	155
22	179	203	---	167	179	200	193	217	148	142	162	156
23	181	---	200	167	179	201	193	216	151	140	162	158
24	184	194	198	173	179	201	195	214	152	143	162	159
25	179	194	---	179	179	---	195	211	155	145	162	160
26	176	---	202	180	174	201	198	208	156	147	162	162
27	174	---	201	182	172	201	199	203	158	154	157	162
28	174	232	---	194	163	202	201	204	158	155	157	163
29	176	239	---	198	---	202	200	202	159	155	163	165
30	176	246	---	208	---	203	201	200	162	156	157	166
31	178	---	198	211	---	203	---	198	---	156	157	---
MONTH	180	197	---	190	193	193	191	212	158	146	159	155

TEMPERATURE (DEG. C) OF WATER + WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	14.0	---	6.0	4.0	4.5	8.0	10.5	14.0	16.0	20.5	21.0
2	18.0	13.5	8.5	5.5	4.0	5.0	8.0	10.5	14.0	16.0	20.5	21.0
3	17.0	13.5	8.5	5.5	4.0	5.0	8.0	11.0	14.0	16.0	21.0	21.0
4	17.0	13.5	---	5.0	4.0	5.0	8.0	11.0	14.0	16.5	21.0	21.0
5	17.0	13.5	---	5.0	4.5	5.0	8.0	11.0	14.0	16.5	21.0	21.0
6	16.5	13.5	8.0	5.0	4.5	5.0	8.0	11.5	14.0	16.5	21.0	20.5
7	16.5	13.5	7.0	---	4.5	5.0	8.0	11.5	14.0	16.5	21.0	21.0
8	16.5	13.5	7.0	3.5	4.5	5.0	8.5	12.0	14.0	17.0	21.0	21.0
9	16.5	14.0	7.0	3.5	4.5	5.0	8.5	12.0	14.0	17.0	21.0	21.0
10	17.0	14.0	---	3.0	4.5	5.0	8.5	12.0	14.0	17.0	21.0	21.0
11	16.5	12.0	7.0	2.0	4.5	5.0	8.5	13.0	14.0	17.0	21.0	20.5
12	16.0	12.0	7.0	2.0	4.5	5.0	8.5	13.0	14.0	17.0	20.5	20.5
13	15.5	11.5	7.0	1.5	4.5	5.0	8.5	13.0	---	17.0	20.5	20.5
14	15.5	11.0	7.0	1.5	4.0	5.0	8.5	12.0	14.5	17.0	20.5	20.5
15	15.5	11.0	7.0	1.5	4.0	5.0	8.5	13.0	15.0	17.0	20.5	20.0
16	15.5	11.0	7.0	1.5	4.0	5.0	9.0	12.0	15.0	18.0	20.5	20.0
17	15.5	10.0	7.0	1.5	4.0	5.0	9.0	12.0	15.0	18.0	20.5	20.0
18	---	9.5	7.0	1.5	4.0	5.5	9.0	12.0	15.5	18.0	20.5	20.0
19	15.0	---	---	1.5	3.5	5.5	9.5	12.0	15.5	16.5	20.5	19.5
20	15.0	---	7.0	2.0	3.5	5.5	9.5	11.5	16.0	17.0	20.0	19.5
21	15.0	9.5	---	2.0	3.5	5.5	9.5	11.5	15.5	18.0	20.0	19.5
22	15.0	9.0	---	3.5	3.0	6.0	9.5	11.5	15.5	18.5	20.0	19.5
23	15.0	---	7.0	3.5	3.5	6.0	9.5	11.5	15.0	19.0	19.5	19.5
24	14.5	9.0	7.0	3.5	3.5	6.0	9.5	12.0	15.0	19.5	19.0	19.5
25	14.5	9.0	---	3.5	3.0	---	9.5	12.0	15.0	19.5	19.0	19.5
26	14.0	---	7.0	4.0	3.0	6.5	10.0	12.0	15.0	20.0	19.0	19.5
27	14.0	---	7.0	4.0	3.0	6.5	10.0	13.0	15.0	20.0	19.5	19.0
28	14.0	8.5	---	4.0	3.0	6.5	10.0	13.0	15.0	20.0	19.5	19.0
29	14.5	8.5	---	4.0	---	6.5	10.5	13.5	15.0	20.0	20.5	19.0
30	14.5	8.5	---	4.0	---	7.0	10.5	14.0	15.5	20.5	20.5	---
31	14.0	---	6.5	4.0	---	7.0	---	14.0	---	20.5	20.5	---
MONTH	15.5	11.5	---	3.5	4.0	5.5	9.0	12.0	14.5	18.0	20.5	20.0

COLUMBIA RIVER MAIN STEM

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14128910 COLUMBIA RIVER AT WARRENDALE, OREG.

LOCATION.--Lat 45°36'45", long 122°01'35", in NW¼SE¼ sec.35, T.2 N., R.6 E., Multnomah County, temperature recorder on left bank, 0.1 mi (0.2 km) downstream from Tumalt Creek, 1.0 mi (1.6 km) west of Warrendale, 5.1 mi (9.2 km) downstream from Bonneville Dam, and at mile 141.0 (226.9 km).

DRAINAGE AREA.--240,400 mi² (622,600 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: March to September 1974.

Water temperatures: August 1967 to September 1973 (discontinued).

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIOP) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
NOV.												
13...	120000	9.7	17	5.0	7.1	1.5	76	0	15	3.4	.3	.24
FER.												
05...	296300	15	19	4.9	6.7	1.5	69	0	14	4.0	.2	.58
20...	226800	15	18	5.4	6.9	1.5	74	0	15	3.2	.3	.50
MAR.												
19...	242700	--	--	--	--	--	86	--	--	--	--	.48
APR.												
23...	309200	16	19	5.3	10	1.7	79	0	15	3.5	.7	.36
MAY												
07...	417500	15	18	4.6	5.7	1.4	71	0	13	2.0	.5	.18
21...	310400	14	15	4.0	5.3	1.2	64	0	11	2.6	.0	.14
JUNE												
05...	405400	12	--	--	--	--	65	0	12	2.3	--	.10
18...	540000	18	13	3.2	3.9	.7	52	0	7.9	1.1	.3	.05
JULY												
03...	463000	8.3	--	--	--	--	53	0	8.0	1.9	--	.03
16...	218000	7.9	14	3.6	3.3	1.2	56	0	11	2.0	.1	.11
16...	--	--	--	--	--	--	--	--	--	--	--	--
31...	218000	6.4	--	--	--	--	59	0	11	1.9	--	.18
AUG.												
20...	165000	5.7	16	3.3	3.1	.6	64	--	8.0	2.3	.2	.03
27...	148000	5.5	16	5.6	3.6	3.0	--	--	--	--	.1	.05
SEP.												
17...	126000	7.2	--	--	--	--	--	--	--	--	--	.08
24...	140000	7.8	17	13	4.1	1.1	--	--	--	--	.2	.04
DATE	TOTAL KJFL- DAHL NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TUR- BID- ITY (JTU)
NOV.												
13...	.20	--	--	.44	.55	--	--	31100	.13	63	1	--
FER.												
05...	2.0	--	--	2.6	.12	2.6	110	88000	.15	68	11	20
20...	.41	--	--	.91	.11	--	124	75900	.17	67	6	20
MAR.												
19...	.33	--	--	.81	.14	--	--	--	--	--	--	--
APR.												
23...	.23	--	--	.59	.17	3.6	108	90200	.15	69	4	20
MAY												
07...	.29	--	--	.47	.09	3.0	123	139000	.17	64	6	10
21...	.12	--	--	.26	.06	3.4	89	74600	.12	54	1	8
JUNE												
05...	.84	.83	.01	.94	.05	3.5	84	91900	.11	--	--	--
18...	.84	--	--	.89	.09	3.2	68	99100	.09	46	3	30
JULY												
03...	.57	.55	.02	.60	.05	2.4	64	80000	.09	--	--	--
16...	.02	--	--	.13	.05	2.1	69	40600	.09	50	4	7
16...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.29	.23	.06	.47	.04	2.8	66	38800	.09	--	--	--
AUG.												
20...	.07	--	--	.10	.03	2.2	66	29400	.09	54	1	2
27...	.16	.13	.03	.21	.03	3.3	69	27600	.09	63	--	2
SEP.												
17...	.38	.27	.11	.46	.04	3.5	86	29300	.12	--	--	--
24...	.23	.12	.11	.27	.03	2.5	100	37800	.14	96	--	2

COLUMBIA RIVER MAIN STEM

14128910 COLUMBIA RIVER AT WARRENDALE, OREG.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED OXYGEN (MG/L)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	TEMPER- ATURE (DEG C)	OIL AND GREASE (MG/L)	ALKA- LITY AS CACO3 (MG/L)
NOV. 13...	--	8.0	--	--	15	20	--	14	4540	--	--	62
FEH. 05...	--	7.9	--	--	12	18	--	8	6400	--	--	57
20...	--	7.9	--	--	32	16	--	8	4900	--	--	61
MAR. 19...	--	7.4	--	--	18	0	--	6	3930	--	--	71
APR. 23...	13.0	6.5	--	4	--	0	3600	6	5010	9.6	0	65
MAY 07...	12.9	6.7	--	5	0	4	--	5	5640	11.0	--	58
21...	12.7	7.2	--	6	0	--	--	2	1680	11.0	0	53
JUNE 05...	11.7	7.4	2	--	4	8	--	3	3280	11.7	0	53
18...	11.7	7.7	--	13	--	17	11000	7	10200	12.6	0	43
JULY 03...	11.5	8.1	15	--	2	1	--	6	7500	16.0	--	43
16...	--	7.8	--	--	4	4	--	2	1180	--	0	46
16...	--	--	--	--	--	--	9300	--	--	--	--	--
31...	10.0	7.9	0	--	1	1	--	1	589	21.0	0	48
AUG. 20...	9.1	7.9	--	--	3	1	--	1	445	19.0	0	52
27...	9.3	7.9	0	--	4	2	--	1	400	20.0	3	--
SEP. 17...	8.8	7.7	8	--	3	3	--	--	--	20.0	--	--
24...	8.7	7.8	8	--	4	1	--	1	378	19.5	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	TOTAL CORALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)
FEH. 05...	2	3	0	<10	0	0	1	<50	16
APR. 23...	2	2	0	<10	0	50	0	<50	6
MAY 07...	0	2	0	<10	30	30	0	<50	10
21...	2	2	--	<10	--	0	--	<50	--
JUNE 05...	--	1	--	<10	--	0	--	--	--
JULY 03...	--	0	--	<10	--	0	--	--	--
16...	2	2	--	<10	0	<10	--	<50	--
31...	--	6	--	<10	--	0	--	--	--
AUG. 20...	0	2	--	<10	--	0	--	<50	--
27...	--	1	--	<10	--	0	--	--	--
SEP. 17...	--	1	--	<10	--	0	--	--	--
24...	--	1	--	<10	--	0	--	--	--

COLUMBIA RIVER MAIN STEM

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14128910 COLUMBIA RIVER AT WARRENDALE, OREG.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB.									
05...	20	60	1800	5	<100	0	40	50	70
APR.									
23...	<10	60	100	2	<100	0	3000	10	120
MAY									
07...	10	200	860	12	<100	30	30	10	100
21...	10	--	510	--	<100	--	30	--	30
JUNE									
05...	20	--	780	--	<100	--	--	--	40
JULY									
03...	10	--	1100	--	<100	--	--	--	30
16...	10	50	590	--	<100	0	10	10	10
31...	<10	--	140	--	<100	--	--	--	20
AUG.									
20...	<10	180	210	--	<100	--	0	--	20
27...	20	--	--	--	0	--	--	--	30
SEP.									
17...	<10	--	370	--	<100	--	--	--	20
24...	<10	--	290	--	<100	--	--	--	40

DATE	DIS- SOLVED SILF- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)
FEB.								
05...	3	3	.0	.0	--	--	--	--
APR.								
23...	1	3	.0	.1	--	--	--	--
MAY								
07...	3	3	.0	--	--	--	--	--
21...	0	1	--	--	--	--	--	--
JUNE								
05...	--	1	--	--	16	4.3	5.1	1.3
JULY								
03...	--	2	--	.0	14	3.3	3.9	1.0
16...	0	0	.0	.0	--	--	--	--
31...	--	2	--	--	14	3.7	3.7	.9
AUG.								
20...	0	1	--	.0	--	--	--	--
27...	--	0	--	2.5	--	--	--	--
SEP.								
17...	--	0	--	.0	--	--	--	--
24...	--	0	--	.2	--	--	--	--

14144700 COLUMBIA RIVER AT VANCOUVER, WASH.

LOCATION.--Lat 45°37'15", long 122°40'20", in NE 1/4 sec. 34, T.2 N., R.1 E., Clark County, temperature recorder near right bank, in control house of Interstate Highway 5 bridge, at south edge of Vancouver, 5.0 mi (8.0 km) upstream from Willamette River, and at mile 106.5 (171.4 km).

DRAINAGE AREA.--241,000 mi² (624,200 km²).

PERIOD OF RECORD.--Chemical analyses: February 1964 to September 1965.

Water temperatures: August 1967 to September 1970, October 1972 to September 1974.

Sediment records: October 1963 to September 1967.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.5°C several days in July, August and September; minimum, 1.0°C Jan. 12, 13.

Period of record:

Water temperatures: Maximum, 23.0°C Aug. 20-24, 1967; minimum, 0.5°C Jan. 28, 1969.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	12.5	12.5	---	---	5.5	4.5	5.0	4.5	5.0	4.5
2	14.5	14.0	---	---	---	---	4.5	4.0	4.5	4.5	5.0	4.5
3	14.0	13.5	---	---	8.0	8.0	4.0	4.0	4.5	4.5	4.5	4.5
4	14.0	13.5	---	---	8.0	7.0	4.0	3.5	4.5	4.5	4.5	4.5
5	13.5	13.5	---	---	7.0	7.0	3.5	3.0	4.5	4.0	5.0	4.5
6	13.5	13.5	---	---	7.0	7.0	3.0	2.0	4.5	4.5	5.0	4.5
7	13.5	13.0	---	---	7.0	7.0	2.0	2.0	4.5	4.5	5.0	4.5
8	13.5	13.0	---	---	7.0	6.5	2.0	1.5	4.5	4.5	5.0	4.5
9	13.5	13.0	---	---	7.0	6.5	1.5	1.5	4.5	4.5	5.0	5.0
10	13.5	13.0	---	---	6.5	6.5	1.5	1.5	4.5	4.5	5.0	5.0
11	13.5	13.5	---	---	6.5	6.5	1.5	1.5	4.5	4.0	5.5	5.0
12	13.5	13.0	---	---	7.0	7.0	1.5	1.0	4.5	4.0	5.5	5.0
13	13.0	13.0	---	---	7.0	6.5	1.5	1.0	4.5	4.0	5.5	5.0
14	13.5	13.0	---	---	7.0	6.5	3.0	1.5	4.5	4.0	5.0	5.0
15	13.5	13.0	---	---	7.0	7.0	4.0	3.0	4.5	4.0	5.5	5.0
16	13.5	13.0	---	---	7.0	7.0	4.0	3.5	4.5	4.0	5.5	5.5
17	13.5	13.0	---	---	7.0	7.0	3.5	3.5	4.5	4.0	6.0	5.5
18	13.5	13.0	---	---	7.0	6.5	3.5	3.5	4.5	4.5	6.0	6.0
19	13.5	13.0	---	---	6.5	6.0	3.5	3.0	4.5	4.5	6.5	6.0
20	13.5	13.0	---	---	6.0	6.0	3.0	3.0	4.5	4.5	6.5	6.0
21	13.5	13.0	---	---	6.5	6.0	3.5	3.0	4.5	4.5	6.5	6.0
22	13.0	13.0	---	---	6.5	6.5	3.5	3.5	4.5	4.5	6.5	6.5
23	13.0	12.0	---	---	6.5	6.5	4.0	3.5	4.5	4.5	7.0	6.5
24	12.0	12.0	---	---	6.5	6.0	4.5	4.0	4.5	4.5	7.0	6.5
25	12.0	11.5	---	---	6.0	6.0	4.5	4.5	5.0	4.5	7.0	7.0
26	11.5	11.5	---	---	6.0	5.5	4.5	4.5	4.5	4.5	7.0	7.0
27	11.5	11.0	---	---	5.5	5.5	4.5	4.5	4.5	4.5	7.0	7.0
28	11.5	11.5	---	---	5.5	5.5	4.5	4.5	5.0	4.5	7.0	7.0
29	11.5	11.0	---	---	5.5	5.5	4.5	4.5	---	---	7.0	7.0
30	11.5	11.0	---	---	5.5	5.5	4.5	4.5	---	---	7.0	7.0
31	11.0	11.0	---	---	5.5	5.5	5.0	4.5	---	---	7.0	7.0
MONTH	14.5	11.0	---	---	8.0	5.5	5.5	1.0	5.0	4.0	7.0	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	10.5	10.5	14.5	13.5	16.5	15.5	21.0	21.0	21.0	21.0
2	7.0	7.0	10.5	10.5	14.5	14.0	16.0	16.0	21.5	21.0	21.5	20.5
3	7.0	7.0	11.0	10.5	14.5	14.0	16.0	16.0	21.5	21.0	20.5	20.5
4	7.0	7.0	11.5	11.0	14.5	14.0	16.5	16.0	21.5	21.0	21.0	20.5
5	7.0	7.0	11.5	11.5	14.5	14.0	16.5	16.0	21.5	21.0	21.0	20.5
6	7.0	7.0	11.5	11.5	14.0	14.0	16.5	16.0	21.5	21.0	21.0	20.5
7	8.0	7.0	12.0	11.5	14.0	13.5	16.5	16.0	21.0	21.0	21.5	20.5
8	8.0	8.0	12.0	11.5	14.0	13.5	17.0	16.5	21.0	20.5	21.0	20.5
9	8.5	8.0	12.0	11.5	14.0	13.5	17.0	17.0	21.0	20.5	21.0	20.5
10	8.5	8.5	12.0	11.5	14.0	13.5	17.0	17.0	21.0	21.0	21.0	20.5
11	8.5	8.0	12.0	11.5	14.0	13.5	17.0	16.5	21.0	21.0	20.5	20.0
12	8.5	8.0	12.0	11.5	14.5	14.0	17.0	16.5	21.0	20.5	20.0	19.5
13	8.5	8.0	11.5	11.5	14.5	14.0	18.0	17.0	20.5	20.0	20.0	19.5
14	9.0	8.5	11.5	11.5	14.5	14.5	18.0	18.0	20.5	20.0	19.5	19.5
15	9.0	8.5	11.5	11.0	14.5	14.5	18.0	18.0	21.0	20.0	19.5	19.0
16	9.0	8.5	11.5	11.0	14.5	14.5	18.0	18.0	21.0	20.5	20.0	19.5
17	9.0	9.0	11.5	11.5	15.0	14.5	18.0	18.0	21.0	20.5	20.0	19.5
18	9.0	9.0	12.0	11.5	15.0	15.0	18.0	18.0	20.5	20.0	20.5	20.0
19	9.0	9.0	11.5	11.5	15.5	15.0	19.0	18.0	20.5	20.0	20.5	20.0
20	9.5	9.0	12.0	11.5	15.5	15.5	19.5	19.0	20.0	20.0	20.0	19.5
21	10.0	9.5	12.0	11.5	15.5	15.5	19.5	19.0	20.5	20.0	19.5	19.0
22	10.0	10.0	12.0	12.0	15.5	15.5	19.5	19.5	20.5	20.0	19.5	19.0
23	10.0	10.0	12.0	12.0	15.5	15.5	19.5	19.5	20.5	20.0	19.5	19.0
24	10.0	10.0	12.0	12.0	15.5	15.0	19.5	19.5	21.0	20.0	19.5	19.0
25	10.5	10.0	12.0	12.0	15.0	15.0	19.5	19.5	21.0	20.5	19.0	19.0
26	10.5	10.0	13.0	12.0	15.0	15.0	20.0	19.5	21.0	20.5	19.0	18.5
27	10.5	10.0	13.5	13.0	15.0	15.0	20.5	20.0	21.0	21.0	19.0	18.5
28	10.5	10.0	13.5	13.0	15.5	15.0	20.5	20.0	21.5	21.0	18.5	18.0
29	10.5	10.0	13.5	13.5	15.5	15.0	21.0	20.5	21.5	21.0	18.5	18.0
30	10.5	10.5	13.5	13.0	15.5	15.5	21.0	21.0	21.0	21.0	18.5	18.0
31	---	---	14.0	13.5	---	---	21.5	21.0	21.0	20.5	---	---
MONTH	10.5	7.0	14.0	10.5	15.5	13.5	21.5	15.5	21.5	20.0	21.5	18.0

14144800 MIDDLE FORK WILLAMETTE RIVER NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°35'50", long 122°27'20", in NE¼ sec.9, T.23 S., R.3 E., Lane County, temperature recorder at gaging station on right bank, 0.2 mi (0.3 km) upstream from Windfall Creek, 8.3 mi (13.4 km) upstream from Hills Creek Dam, 10 mi (16 km) south of Oakridge, and at mile 240.8 (387.4 km).

DRAINAGE AREA.--258 mi² (668 km²).

PERIOD OF RECORD.--Water temperatures: October 1958 to January 1959, September 1959 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.0°C Aug. 3; minimum, freezing point Jan. 5-8, 10, 11.

Period of record:

Water temperatures: Maximum, 23.0°C July 15, 1970; minimum, freezing point on several days during winter period each year.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	9.0	7.0	6.0	5.0	3.5	2.0	5.5	4.5	5.0	4.0
2	12.5	7.5	7.5	5.5	5.5	4.5	2.5	1.0	5.0	4.0	5.0	4.0
3	12.5	7.5	6.5	5.0	5.5	4.5	2.0	1.0	5.5	3.5	5.0	3.5
4	12.5	7.0	6.0	4.5	5.0	4.5	1.5	0.5	4.5	3.5	5.5	3.5
5	11.5	8.0	5.0	1.0	5.5	4.5	1.0	0.0	5.0	3.5	5.5	4.0
6	11.0	9.5	6.5	4.5	6.0	5.0	1.0	0.0	4.5	2.5	5.0	3.5
7	11.5	8.5	6.5	6.0	6.0	5.5	1.5	0.0	4.5	2.5	5.0	3.0
8	12.0	7.5	7.0	6.0	5.5	5.0	1.5	0.0	5.5	3.0	5.5	2.5
9	12.0	7.5	8.0	7.0	5.5	4.5	1.5	0.5	5.5	3.0	6.0	3.5
10	11.0	7.0	8.0	7.0	5.5	4.5	1.5	0.0	5.5	3.0	6.0	3.5
11	12.0	8.5	8.0	7.5	5.5	5.0	2.0	0.0	5.5	3.5	6.0	4.5
12	12.5	9.0	7.5	7.0	5.5	3.5	3.0	2.0	5.0	4.0	5.0	3.5
13	13.5	9.5	7.0	6.5	5.0	3.5	4.0	2.5	4.5	3.0	5.0	3.0
14	12.0	8.0	6.5	6.0	5.5	4.5	5.0	4.0	5.5	4.0	5.0	4.0
15	12.0	7.5	8.0	7.0	6.0	5.0	5.0	4.5	5.5	4.0	7.0	4.5
16	12.0	7.5	7.5	7.0	6.0	5.0	5.0	4.5	5.0	4.5	6.0	5.0
17	12.5	8.0	6.5	6.0	6.0	5.5	5.0	4.5	5.0	4.0	7.0	5.0
18	12.5	8.0	6.5	5.5	5.5	4.5	6.0	4.5	5.0	4.5	7.0	4.0
19	10.5	8.0	6.5	5.5	5.5	4.5	5.5	4.5	5.0	4.5	7.5	4.0
20	11.5	10.0	6.0	4.0	6.0	5.5	4.5	3.5	5.0	4.0	7.0	4.0
21	11.0	9.5	5.0	4.0	6.0	5.0	3.5	3.0	4.5	3.0	7.5	3.5
22	10.0	9.5	5.5	4.0	5.5	5.0	5.0	3.5	5.0	3.0	7.5	4.0
23	10.0	9.0	5.0	4.5	5.5	5.0	4.5	4.0	5.5	3.0	8.0	4.5
24	10.0	8.5	5.0	4.0	6.0	4.5	4.5	3.5	6.0	3.5	8.0	4.0
25	10.0	7.5	4.5	4.0	5.5	4.0	5.0	4.5	6.0	4.5	8.0	5.5
26	10.0	7.0	5.0	4.5	5.0	4.0	5.0	3.5	5.0	4.0	7.5	4.5
27	10.5	7.0	5.5	4.5	5.5	5.0	4.0	3.5	4.5	4.0	6.0	5.5
28	9.5	8.5	6.0	5.0	5.5	4.5	5.0	4.0	5.0	3.5	6.0	4.5
29	10.5	7.5	6.0	5.0	5.5	4.5	5.0	3.5	---	---	6.5	5.0
30	10.0	7.0	6.0	5.5	4.5	4.5	5.5	4.0	---	---	6.0	5.0
31	10.0	9.0	---	---	4.5	3.5	5.5	4.5	---	---	5.5	4.0
MONTH	13.5	7.0	9.0	1.0	6.0	3.5	6.0	0.0	6.0	2.5	8.0	2.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.5	9.0	5.5	13.0	6.5	13.5	10.0	20.0	13.0	19.0	13.0
2	6.0	4.0	9.5	5.0	12.0	6.5	15.0	9.0	20.5	13.5	18.5	13.0
3	7.0	4.0	10.5	5.0	11.5	7.0	16.0	8.5	21.0	13.5	19.0	13.0
4	7.5	4.0	11.0	5.0	8.5	7.5	15.5	9.5	20.5	13.5	18.0	12.0
5	7.0	5.0	11.5	5.5	7.5	6.5	14.5	10.0	18.5	14.0	17.5	11.5
6	7.5	4.5	10.5	6.0	10.0	6.5	15.0	10.0	19.5	13.0	17.5	11.0
7	8.5	5.0	10.0	5.5	10.5	6.0	13.5	9.5	18.5	11.5	17.0	10.5
8	7.0	5.0	10.5	6.0	12.0	5.5	12.5	10.0	18.0	11.0	17.0	11.5
9	6.5	4.5	7.0	5.5	12.5	6.5	12.0	9.0	19.0	11.5	13.5	12.0
10	7.0	4.5	8.5	5.5	13.5	7.0	12.5	9.0	19.0	12.0	16.5	11.0
11	6.5	5.0	9.5	6.0	13.0	7.5	12.5	9.0	19.0	12.0	15.5	9.5
12	8.0	4.0	7.5	5.5	12.0	7.5	15.5	8.5	18.0	11.5	15.5	9.5
13	9.0	3.5	7.0	4.5	14.0	7.5	16.5	9.0	16.0	11.0	16.0	9.0
14	9.5	4.0	6.5	5.0	13.5	7.5	17.0	10.0	17.5	10.5	15.5	9.0
15	7.0	5.0	7.5	4.5	12.0	7.5	15.0	10.5	18.0	11.0	15.5	9.0
16	9.5	5.0	7.5	4.5	13.0	8.0	16.0	9.0	18.0	11.5	15.5	9.5
17	10.0	4.5	6.5	4.5	14.0	7.5	17.0	12.0	18.5	11.5	15.5	9.5
18	7.5	5.5	7.0	4.5	14.0	8.5	19.0	12.0	15.0	13.0	16.0	9.5
19	7.0	4.5	8.5	5.0	11.5	9.0	19.5	13.0	13.0	11.5	16.0	9.5
20	8.5	5.0	9.0	6.0	13.5	7.5	19.5	12.0	17.5	11.0	16.0	10.0
21	10.0	4.5	9.0	5.0	14.5	8.0	19.0	12.5	17.5	11.0	16.0	10.0
22	8.5	6.0	11.5	6.0	14.0	9.0	18.0	12.0	18.0	12.0	16.0	10.0
23	9.0	5.0	11.0	6.0	14.5	9.5	18.5	12.5	18.5	13.0	16.0	10.0
24	8.0	4.5	11.0	7.0	14.5	8.5	19.0	11.5	18.5	11.5	16.5	10.5
25	7.5	4.5	13.0	7.5	10.5	8.5	19.0	12.0	19.0	12.0	16.0	10.0
26	7.5	4.0	12.5	7.0	12.0	6.5	19.0	12.5	19.0	12.5	15.0	10.0
27	8.0	5.0	11.5	7.0	15.0	8.5	20.0	13.0	19.5	12.5	14.0	8.5
28	10.0	5.5	10.0	5.5	15.5	8.5	20.5	13.0	19.5	13.0	14.5	8.5
29	11.0	5.0	10.0	6.0	17.0	9.5	20.5	13.5	19.5	13.0	14.5	8.5
30	10.5	6.0	11.0	5.5	16.5	10.5	20.5	13.5	19.0	13.5	14.5	9.0
31	---	---	12.5	6.0	---	---	20.5	13.5	19.5	13.5	---	---
MONTH	11.0	3.5	13.0	4.5	17.0	5.5	20.5	8.5	21.0	10.5	19.0	8.5

WILLAMETTE RIVER BASIN

14144900 HILLS CREEK ABOVE HILLS CREEK LAKE, NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°40'50", long 122°22'10", in NW 1/4 sec. 8, T.22 S., R.4 E., Lane County, temperature recorder at gaging station on right bank, 0.2 mi (0.3 km) downstream from Tufti Creek, 0.7 mi (1.1 km) upstream from Hills Creek Lake, 6.5 mi (10.5 km) southeast of Oakridge, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--52.7 mi² (136.5 km²).

PERIOD OF RECORD.--Water temperatures: October 1958 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.0°C July 30; minimum, freezing point Jan. 5-11.

Period of record:

Water temperatures: Maximum, 22.5°C Aug. 7, 1972; minimum, freezing point Jan. 19-25, 1962, Jan. 5-11, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	9.0	6.0	6.0	5.5	3.5	2.0	6.0	5.0	5.0	3.5
2	11.0	8.0	6.0	4.5	6.0	5.0	2.5	1.5	5.5	5.0	4.5	3.0
3	11.0	7.0	6.0	4.0	6.0	5.0	1.5	1.0	6.0	4.5	4.5	3.0
4	11.0	7.5	5.0	3.0	5.5	5.0	1.5	0.5	5.5	4.5	5.0	3.0
5	11.0	8.0	4.0	1.0	6.5	5.0	0.5	0.0	5.5	4.5	5.0	3.5
6	11.0	9.5	6.0	3.5	6.5	5.5	0.5	0.0	4.5	3.0	4.0	3.0
7	10.5	9.0	6.0	5.0	6.5	6.0	1.0	0.0	5.0	3.5	4.5	2.5
8	11.0	7.0	6.0	5.5	6.0	5.0	1.5	0.0	5.5	4.0	4.0	2.0
9	10.0	7.0	7.0	6.0	6.0	5.0	1.5	0.0	6.0	4.0	5.0	2.5
10	10.0	6.5	7.5	6.5	6.0	5.0	1.0	0.0	6.0	4.0	5.0	3.0
11	11.5	8.5	7.0	6.5	6.5	5.0	2.5	0.0	6.5	4.5	5.0	4.0
12	12.0	10.0	7.5	6.5	6.0	4.5	3.0	2.5	5.5	4.5	4.0	3.0
13	12.0	10.0	---	---	5.5	4.5	4.5	2.5	5.5	4.0	4.5	2.5
14	10.5	8.0	---	---	6.0	5.0	5.5	4.5	6.5	4.5	4.5	3.5
15	11.0	8.0	---	---	6.5	5.5	6.0	5.5	6.0	4.5	6.0	4.0
16	11.0	8.0	---	---	6.5	6.0	6.0	5.5	6.0	5.0	5.5	4.5
17	11.0	8.5	---	---	6.5	6.0	5.5	5.5	6.0	5.0	5.5	4.5
18	11.0	8.5	---	---	6.0	5.0	6.5	5.5	6.0	5.0	6.0	3.5
19	11.0	8.5	---	---	6.0	5.0	6.0	5.0	6.0	5.0	6.5	3.5
20	12.0	10.5	---	---	7.0	6.0	5.0	4.5	6.0	5.0	6.0	3.0
21	11.0	9.5	5.5	---	6.5	5.5	4.5	3.5	5.5	4.0	6.5	3.0
22	10.0	9.0	6.0	4.5	6.0	5.5	5.5	4.0	5.5	3.5	6.5	3.0
23	9.5	8.5	5.5	5.0	6.0	5.5	5.5	5.0	---	---	6.5	4.0
24	9.5	8.5	5.5	5.0	7.0	5.0	5.5	4.5	---	---	7.0	3.0
25	9.0	7.0	5.5	4.5	5.5	4.5	5.5	5.0	---	---	7.5	5.0
26	9.0	6.0	5.5	4.5	5.5	4.0	5.0	4.0	---	---	7.0	4.5
27	9.5	6.0	6.0	5.0	6.0	5.5	4.5	4.0	---	---	6.0	5.0
28	9.0	7.5	6.5	5.5	6.0	5.5	6.0	4.5	4.5	3.5	5.5	4.5
29	9.0	7.0	6.5	5.5	6.0	5.0	5.5	4.0	---	---	6.0	4.5
30	9.5	6.0	6.5	6.0	5.0	4.5	6.0	5.0	---	---	5.5	4.5
31	9.5	8.0	---	---	5.0	3.5	6.5	5.5	---	---	5.5	4.0
MONTH	12.0	6.0	---	---	7.0	3.5	6.5	0.0	6.5	3.0	7.5	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	4.0	7.5	5.0	12.0	5.5	12.5	9.5	20.0	14.0	19.0	14.0
2	5.5	4.0	8.5	4.5	11.5	5.5	14.5	8.5	20.5	14.0	19.0	14.5
3	5.5	4.0	9.5	4.5	10.5	6.0	15.5	8.0	20.5	14.0	19.0	15.5
4	6.5	4.0	10.0	4.5	7.5	6.5	15.5	9.0	20.5	14.5	17.5	13.5
5	7.0	5.0	10.5	5.0	6.5	5.5	15.0	10.5	18.5	15.0	17.5	13.0
6	6.5	4.5	9.5	5.5	8.5	5.5	14.5	10.0	18.5	13.5	17.5	12.5
7	7.5	4.5	8.5	5.0	9.0	5.0	14.0	9.5	17.5	12.0	17.0	12.5
8	7.0	5.0	9.5	5.5	11.0	4.5	13.0	10.0	17.5	11.0	17.0	12.0
9	5.5	4.0	6.0	4.5	11.5	5.5	12.0	9.5	18.0	11.5	16.5	14.0
10	6.5	4.0	7.0	4.5	12.5	6.0	11.5	9.0	18.5	12.5	15.5	12.5
11	6.0	5.0	9.0	5.0	12.0	6.0	12.0	8.5	18.0	11.0	15.0	11.0
12	7.0	3.5	6.5	4.5	11.5	6.0	15.5	8.5	16.5	11.5	14.5	10.5
13	7.5	2.5	6.0	3.5	12.5	6.0	16.5	9.0	15.5	10.5	---	---
14	8.5	3.5	6.5	4.5	12.0	6.0	17.0	10.5	16.5	10.5	---	---
15	6.5	4.5	7.0	3.5	11.5	6.0	15.5	11.0	17.0	11.0	---	---
16	8.5	4.5	6.5	3.5	12.0	7.0	15.5	9.5	18.5	12.0	---	---
17	9.5	4.5	5.5	4.0	13.5	7.0	16.0	11.5	18.0	12.5	---	---
18	6.5	5.0	6.5	4.0	13.0	7.5	18.0	12.5	16.0	12.5	---	---
19	5.5	4.0	7.0	4.0	10.5	8.0	19.0	13.0	13.5	12.0	---	---
20	7.0	4.5	9.0	5.0	12.5	6.0	19.0	12.0	17.0	11.5	---	---
21	9.5	4.0	8.5	4.0	14.0	7.5	19.0	12.5	17.0	11.5	---	---
22	8.0	5.5	10.5	5.0	13.5	8.5	18.0	11.5	18.5	13.0	---	---
23	7.0	4.5	10.0	5.5	12.5	8.5	18.0	12.0	19.0	14.0	---	---
24	6.5	3.5	10.0	6.5	14.0	7.5	18.5	11.0	17.5	12.5	---	---
25	6.5	4.0	11.5	6.5	10.5	8.0	18.5	11.5	---	---	---	---
26	6.5	3.5	11.0	6.0	11.5	6.0	18.5	11.5	---	---	---	---
27	7.0	4.5	10.0	5.0	14.5	8.5	19.5	12.5	---	---	---	---
28	7.0	5.0	9.0	4.5	15.0	8.0	20.5	13.5	19.5	---	---	---
29	10.0	4.5	9.0	5.5	16.5	9.0	20.5	14.5	19.0	15.0	---	---
30	10.5	5.5	10.0	4.5	16.5	10.0	21.0	14.5	19.5	15.0	---	---
31	---	---	11.5	5.0	---	---	20.5	14.5	19.5	15.5	---	---
MONTH	10.5	2.5	11.5	3.5	16.5	4.5	21.0	8.0	20.5	10.5	---	---

14145500 MIDDLE FORK WILLAMETTE RIVER ABOVE SALT CREEK, NEAR OAKRIDGE, OREG.

LOCATION.—Lat 43°43'20", long 122°26'15", in NW¼ sec.27, T.21 S., R.3 E., Lane County, temperature recorder at gaging station on right bank, 90 ft (27 m) upstream from highway bridge, 0.4 mi (0.6 km) upstream from Salt Creek, 1.1 mi (1.8 km) downstream from Hills Creek Dam, 2.3 mi (3.7 km) southeast of Oakridge, and at mile 231.4 (372.3 km).

DRAINAGE AREA.—392 mi² (1,015 km²).

PERIOD OF RECORD.—Water temperatures: October 1960 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum, 15.0°C Oct. 6-8; minimum, 4.0°C Jan. 5-20.

Period of record:

Water temperatures: Maximum, 25.0°C Sept. 4, 1960; minimum, 1.5°C Jan. 4, 1961.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	12.0	11.5	6.5	6.5	5.5	5.0	4.5	4.5	4.5	4.5
2	14.5	14.0	11.5	11.0	6.5	6.5	5.0	5.0	4.5	4.5	5.0	4.5
3	15.0	14.0	12.0	11.0	6.5	6.5	5.0	4.5	4.5	4.5	4.5	4.5
4	14.5	12.0	11.0	10.0	6.5	6.5	4.5	4.5	4.5	4.5	4.5	4.5
5	14.5	14.0	10.0	10.0	6.5	6.5	4.5	4.0	4.5	4.5	4.5	4.5
6	15.0	14.5	10.0	9.5	6.5	6.5	4.0	4.0	4.5	4.5	4.5	4.5
7	15.0	15.0	9.5	9.5	6.5	6.5	4.0	4.0	4.5	4.5	4.5	4.5
8	15.0	14.5	9.5	9.5	6.5	6.0	4.5	4.0	4.5	4.5	4.5	4.5
9	14.5	14.0	9.5	9.5	6.0	6.0	4.5	4.0	4.5	4.5	5.0	4.5
10	14.5	14.0	9.5	9.0	6.0	6.0	4.5	4.0	4.5	4.5	5.5	5.0
11	14.5	14.5	9.5	9.0	6.0	6.0	4.5	4.0	4.5	4.5	5.5	5.0
12	14.5	14.5	9.0	8.5	6.5	6.0	4.5	4.0	4.5	4.5	5.5	5.0
13	14.5	14.5	8.5	8.5	6.5	6.0	4.5	4.0	4.5	4.5	5.5	5.0
14	14.5	14.0	8.5	8.0	6.0	5.5	4.0	4.0	4.5	4.5	5.5	5.0
15	14.0	13.5	8.0	8.0	6.0	5.5	4.0	4.0	5.0	4.5	5.5	5.0
16	14.0	13.5	8.0	7.0	5.5	5.5	4.5	4.0	5.0	4.5	5.0	5.0
17	13.5	13.0	7.0	7.0	5.5	5.5	4.5	4.0	5.0	4.5	5.5	5.0
18	13.5	13.0	7.0	7.0	5.5	5.5	4.5	4.0	4.5	4.5	5.0	4.5
19	13.0	13.0	7.0	7.0	5.5	5.5	4.5	4.0	4.5	4.5	5.0	4.5
20	13.5	13.0	7.0	7.0	5.5	5.5	4.5	4.0	4.5	4.5	5.0	4.5
21	13.5	13.5	7.0	7.0	5.5	5.5	4.5	4.5	4.5	4.5	5.0	4.5
22	13.5	13.5	7.0	7.0	5.5	5.5	4.5	4.5	4.5	4.5	5.0	4.5
23	13.5	13.5	7.0	7.0	5.5	5.5	4.5	4.5	4.5	4.5	5.0	4.5
24	13.5	13.0	7.0	7.0	5.5	5.5	4.5	4.5	5.0	4.5	5.5	4.5
25	13.0	11.5	7.0	7.0	5.5	5.5	4.5	4.5	5.0	4.5	5.5	5.0
26	12.0	12.0	7.0	6.5	5.5	5.5	4.5	4.5	5.0	4.5	6.0	5.5
27	12.0	12.0	7.0	6.5	5.5	5.5	4.5	4.5	4.5	4.5	6.0	5.5
28	12.0	12.0	6.5	6.5	5.5	5.5	4.5	4.5	4.5	4.5	6.5	6.0
29	12.0	12.0	6.5	6.5	5.5	5.5	4.5	4.5	---	---	6.5	6.5
30	12.0	11.5	6.5	---	5.5	5.5	4.5	4.5	---	---	7.0	6.5
31	12.0	11.5	---	---	5.5	5.5	4.5	4.5	---	---	6.5	6.5
MONTH	15.0	11.5	12.0	6.5	6.5	5.5	5.5	4.0	5.0	4.5	7.0	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.5	6.0	5.5	9.0	8.0	9.0	8.0	9.5	9.0	11.5	11.0
2	6.5	6.5	6.5	6.0	9.0	8.0	9.0	8.0	9.5	9.0	11.5	11.0
3	6.5	6.5	6.0	5.5	9.0	8.0	9.0	8.0	9.5	9.0	11.5	11.0
4	6.5	6.5	6.5	6.0	9.0	8.0	9.0	8.0	9.5	9.0	11.5	11.0
5	6.5	6.5	7.0	6.5	9.0	8.0	9.0	8.0	9.5	9.0	11.5	11.0
6	6.5	6.0	7.0	6.5	9.5	9.0	9.0	8.5	9.5	8.5	12.0	10.5
7	6.5	6.0	7.0	6.5	9.5	9.0	9.0	8.0	9.5	9.0	11.0	10.0
8	6.0	6.0	7.0	6.5	9.5	8.0	9.0	8.0	9.5	9.0	10.5	9.5
9	6.0	6.0	7.0	6.5	9.0	8.0	9.0	8.5	9.5	9.0	12.0	10.0
10	6.0	6.0	7.0	6.5	9.0	8.0	9.0	8.5	9.5	9.0	13.0	12.0
11	6.0	6.0	8.0	6.5	9.0	8.0	9.0	8.5	9.5	9.0	13.0	12.0
12	6.5	5.5	8.0	6.5	9.5	8.5	9.0	8.5	9.5	9.0	13.0	12.0
13	6.0	5.5	7.0	6.0	9.5	9.0	9.0	8.0	9.5	9.0	13.0	12.0
14	6.0	5.5	8.0	6.0	9.5	9.0	9.0	8.0	11.0	9.0	13.0	12.0
15	6.5	6.0	7.0	6.5	10.0	9.0	9.0	8.0	10.5	9.5	13.0	12.0
16	6.5	6.0	7.0	6.5	9.5	9.0	9.0	8.0	10.5	10.0	13.0	12.0
17	6.5	6.0	7.0	6.5	9.5	9.0	9.0	8.5	10.5	10.0	13.5	13.0
18	6.0	6.0	7.0	6.5	9.5	9.0	9.0	8.5	11.0	10.5	13.5	13.0
19	7.0	6.0	7.0	6.5	10.0	9.0	9.0	8.5	11.0	10.5	13.5	13.0
20	6.5	6.5	7.0	6.5	9.5	8.0	9.5	8.5	11.0	10.5	13.5	13.0
21	6.5	6.0	7.0	6.5	9.0	8.0	9.5	8.5	11.0	10.5	13.5	13.0
22	6.0	6.0	7.0	6.5	9.0	8.0	9.0	8.5	11.0	10.5	13.5	13.0
23	6.5	6.0	8.0	6.0	9.0	8.5	9.0	8.5	11.0	10.5	13.5	13.0
24	6.5	6.0	7.0	6.0	9.0	8.0	9.0	8.5	11.0	10.0	13.5	10.0
25	6.5	6.0	8.0	6.5	9.0	8.0	9.0	8.5	10.0	9.5	12.0	11.5
26	6.5	5.5	8.5	6.5	9.0	8.5	9.0	8.5	10.0	9.5	11.5	11.0
27	6.5	5.5	8.0	6.5	9.0	8.0	9.0	8.5	11.0	10.0	13.0	11.0
28	6.5	5.5	9.0	6.5	9.0	8.0	9.5	8.5	11.0	11.0	13.5	13.0
29	6.5	5.5	9.0	6.5	9.0	8.0	9.0	8.5	11.5	11.0	13.5	13.5
30	6.0	5.5	9.0	8.5	9.0	8.0	9.5	9.0	11.5	11.0	14.0	13.5
31	---	---	9.0	8.0	---	---	9.5	9.0	11.5	11.0	---	---
MONTH	7.0	5.5	9.0	5.5	10.0	8.0	9.5	8.0	11.5	8.5	14.0	9.5

14148000 MIDDLE FORK WILLAMETTE RIVER BELOW NORTH FORK, NEAR OAKRIDGE, OREG.

LOCATION.--Lat 43°48'05", long 122°33'35", in SW¼ sec.27, T.20 S., R.2 E., Lane County, temperature recorder at gaging station on left bank, 0.5 mi (0.8 km) downstream from Whitehead Creek, 4.2 mi (6.8 km) downstream from North Fork of Middle Fork Willamette River, 7.0 mi (11.3 km) northwest of Oakridge, and at mile 220.2 (354.3 km).

DRAINAGE AREA.--924 mi² (2,393 km²).

PERIOD OF RECORD.--Water temperatures: September 1950 to October 1960, June 1961 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 19.0°C July 29; minimum, 2.0°C Jan. 8.

Period of record:

Water temperatures: Maximum, 23.5°C Aug. 3, 1961; minimum, freezing point Jan. 20-22, 1962.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.0	10.5	9.0	6.5	6.5	5.5	4.5	5.0	4.5	5.0	4.5
2	15.0	13.5	9.0	9.0	6.5	6.5	4.5	4.5	5.0	4.5	4.5	4.5
3	15.0	13.5	9.0	8.5	6.5	6.5	4.5	4.0	4.5	4.5	4.5	4.0
4	14.5	11.5	9.0	8.0	6.5	6.5	4.0	3.5	4.5	4.5	4.5	4.0
5	14.0	12.0	8.0	6.5	6.5	6.5	3.5	3.0	4.5	4.5	4.5	4.5
6	14.0	13.5	8.0	6.5	6.5	6.5	3.0	3.0	4.5	4.0	5.0	4.5
7	14.0	13.5	8.0	7.0	6.5	6.5	3.0	3.0	4.5	4.0	5.0	4.5
8	14.5	13.0	8.0	7.0	6.5	6.5	3.5	2.0	4.5	4.0	5.0	4.0
9	14.5	13.0	8.0	7.0	6.5	6.0	3.0	3.0	4.5	4.0	5.0	4.0
10	13.5	13.0	8.0	7.0	6.0	6.0	3.0	3.0	4.5	4.0	5.0	4.5
11	14.5	13.0	7.0	7.0	6.5	6.0	3.0	3.0	4.5	4.0	5.0	4.5
12	14.5	13.5	7.0	7.0	6.5	6.0	3.5	3.0	4.5	4.0	5.0	4.5
13	14.5	13.5	7.0	7.0	6.0	6.0	4.0	3.5	4.5	4.0	4.5	4.0
14	14.5	13.0	7.0	7.0	6.0	6.0	4.5	4.0	4.5	4.5	4.5	4.5
15	14.5	13.0	8.0	7.0	6.0	6.0	5.0	4.5	4.5	4.5	5.5	4.5
16	14.0	13.0	8.0	7.0	6.0	6.0	5.0	5.0	4.5	4.5	5.0	5.0
17	14.0	13.0	7.0	7.0	6.0	5.5	5.0	5.0	4.5	4.0	5.5	5.0
18	14.0	13.0	7.0	7.0	5.5	5.5	5.0	5.0	4.5	4.5	5.5	4.5
19	13.5	13.0	7.0	7.0	5.5	5.5	5.0	5.0	4.5	4.5	5.5	4.5
20	14.0	13.0	7.0	6.5	5.5	5.5	5.0	4.5	4.5	4.5	5.5	4.5
21	13.5	12.0	7.0	6.5	5.5	5.5	4.5	4.0	4.5	4.0	5.5	4.5
22	13.0	12.0	6.5	6.5	5.5	5.5	4.5	4.0	4.5	4.0	5.5	4.5
23	12.0	12.0	6.5	6.5	5.5	5.5	4.5	4.5	4.5	4.0	5.5	5.0
24	12.0	11.5	6.5	6.5	5.5	5.5	4.5	4.5	5.0	4.0	5.5	5.0
25	11.5	11.0	6.5	6.5	5.5	5.5	4.5	4.5	5.0	4.5	6.0	5.0
26	11.5	11.0	6.5	6.5	5.5	5.5	4.5	4.5	5.0	4.5	6.0	5.0
27	12.0	11.0	6.5	6.5	5.5	5.5	4.5	4.5	4.5	4.5	5.5	5.5
28	11.5	11.0	6.5	6.5	5.5	5.5	4.5	4.5	4.5	4.5	5.5	5.5
29	11.5	11.0	6.5	6.5	5.5	5.5	4.5	4.5	---	---	5.5	5.5
30	11.0	11.0	6.5	6.5	5.5	5.5	5.0	4.5	---	---	6.0	5.5
31	11.0	10.5	---	---	5.5	5.5	5.0	4.5	---	---	6.0	5.5
MONTH	15.0	10.5	10.5	6.5	6.5	5.5	5.5	2.0	5.0	4.0	6.0	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	8.5	6.5	10.5	8.0	13.5	11.0	16.5	14.0	16.0	14.0
2	6.0	5.5	8.5	6.5	10.5	8.5	13.0	10.0	16.5	14.0	16.0	14.0
3	6.5	5.5	8.5	6.5	10.5	8.5	13.5	10.5	17.0	14.5	16.0	14.0
4	6.5	6.0	9.0	6.5	9.5	8.5	13.5	11.0	17.0	14.5	16.0	14.0
5	6.5	6.0	9.0	7.0	8.5	7.0	13.0	11.5	17.0	14.5	15.5	13.5
6	6.5	6.0	9.0	7.0	9.0	8.0	13.0	11.0	17.0	14.0	15.5	13.5
7	6.5	6.0	8.5	7.0	9.5	8.0	13.0	11.0	16.0	13.0	16.0	13.0
8	6.5	6.0	9.0	7.0	10.0	8.0	12.0	11.0	16.0	13.0	16.5	14.0
9	6.5	6.0	8.5	6.5	10.5	8.5	12.0	10.5	16.0	13.0	16.5	14.0
10	6.5	5.5	8.0	6.5	11.0	9.0	11.5	10.5	16.5	13.5	14.0	13.5
11	6.0	6.0	8.5	7.0	11.0	9.0	12.0	10.0	16.0	13.5	14.0	11.5
12	7.0	5.5	8.0	6.5	11.0	9.0	13.5	10.0	16.0	13.0	14.0	11.5
13	7.0	5.5	7.0	6.5	11.0	9.0	14.5	10.5	15.5	13.0	14.5	11.5
14	7.0	5.5	7.0	6.5	11.0	9.5	15.0	11.5	15.0	11.5	14.5	11.5
15	6.5	6.0	7.0	6.0	10.5	9.5	14.5	12.0	15.5	12.0	14.5	11.5
16	8.0	6.0	7.0	6.0	11.0	9.5	13.5	10.5	15.0	13.0	14.5	12.0
17	8.0	6.0	8.0	6.5	11.5	9.5	14.0	11.5	15.0	13.0	14.5	12.0
18	7.0	6.0	8.0	6.5	11.5	10.0	15.0	12.0	14.5	13.0	15.0	12.0
19	6.5	6.0	8.5	7.0	11.5	10.0	16.0	13.5	14.0	13.0	15.0	13.0
20	7.0	6.0	9.0	7.0	11.5	9.5	16.0	13.5	15.0	12.0	15.0	13.0
21	8.5	6.0	8.5	7.0	12.0	9.5	16.5	14.0	14.5	13.0	15.0	13.0
22	8.0	6.5	10.0	8.0	11.5	10.0	16.5	13.5	15.0	13.0	15.0	13.0
23	7.0	6.5	10.0	8.0	12.0	10.0	17.0	14.0	15.5	13.5	15.0	13.0
24	7.0	6.0	10.0	8.5	12.0	10.0	16.5	13.5	16.0	13.0	15.0	13.0
25	7.0	6.0	11.0	8.5	11.5	9.0	17.0	13.5	16.0	13.5	15.0	11.5
26	7.0	6.0	10.5	8.5	10.5	10.0	16.5	14.5	16.5	13.5	14.5	11.5
27	8.0	6.5	10.5	8.5	13.0	10.0	18.0	14.5	16.5	14.0	14.0	10.5
28	8.5	6.5	9.5	7.0	13.0	10.5	18.5	15.0	16.5	14.0	14.0	11.5
29	8.5	6.5	9.0	8.0	14.0	10.5	19.0	15.5	15.5	14.0	14.0	12.0
30	8.5	6.5	10.0	8.0	14.0	11.5	18.0	14.5	15.5	14.0	14.5	12.0
31	---	---	10.5	8.0	---	---	17.0	14.5	15.5	14.0	---	---
MONTH	8.5	5.5	11.0	6.0	14.0	7.0	19.0	10.0	17.0	11.5	16.5	10.5

14150000 MIDDLE FORK WILLAMETTE RIVER NEAR DEXTER, OREG.

LOCATION.--Lat 43°56'45", long 122°50'10", near center of sec.5, T.19 S., R.1 W., Lane County, temperature recorder at gaging station on right bank, 0.6 mi (1.0 km) upstream from Lost Creek, 2.0 mi (3.2 km) northwest of Dexter, 2.6 mi (4.2 km) downstream from Dexter Dam, and at mile 201.2 (323.7 km).

DRAINAGE AREA.--1,001 mi² (2,593 km²).

PERIOD OF RECORD.--Water temperatures: August 1955 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 17.0°C Oct. 1, 2, July 27, July 30 to Aug. 4, Aug. 6-9, Sept. 11, 13, 14; minimum recorded, 4.5°C Jan. 19, 20, but may have been lower Jan. 4-18.

Period of record:

Water temperatures: Maximum, 18.5°C Sept. 17, 21, 22, 24, 25, 1961; minimum, 3.5°C on several days in 1957, 1969, and Jan. 9-11, 1973.

TEMPERATURE (DEG. C) OF WATER - WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	---	---	7.5	7.5	6.0	5.5	5.5	5.5	6.0	5.5
2	17.0	15.0	---	---	7.5	7.5	5.5	5.5	5.5	5.5	6.0	5.5
3	16.5	15.0	---	---	7.5	7.0	5.5	5.0	5.5	5.5	6.5	5.5
4	16.5	15.0	---	---	7.5	7.0	---	---	5.5	5.5	6.0	5.5
5	16.0	15.0	---	---	7.5	7.0	---	---	5.5	5.5	6.0	5.5
6	16.0	15.0	---	---	7.0	7.0	---	---	5.5	5.5	6.0	5.5
7	16.0	15.0	---	---	7.0	7.0	---	---	6.0	5.0	6.0	5.5
8	15.5	14.5	---	---	7.0	7.0	---	---	5.5	5.5	6.5	5.5
9	16.0	14.5	---	---	7.0	6.5	---	---	6.0	5.5	6.5	5.5
10	15.5	14.5	12.0	11.5	6.5	6.5	---	---	6.0	5.0	6.0	6.0
11	15.5	14.5	11.5	11.0	6.5	6.5	---	---	5.5	5.0	6.5	6.0
12	15.5	15.0	11.0	11.0	7.0	6.5	---	---	6.0	5.0	6.5	6.0
13	15.5	15.0	11.0	10.5	7.0	6.5	---	---	6.0	5.0	6.5	6.0
14	15.5	15.0	10.5	10.0	6.5	6.5	---	---	6.0	5.5	6.5	6.0
15	15.5	15.0	10.0	10.0	6.5	6.5	---	---	6.0	5.5	6.5	6.0
16	15.5	15.0	10.0	10.0	6.5	6.0	---	---	6.0	5.5	6.5	6.5
17	15.5	15.0	10.0	9.5	6.0	6.0	---	---	6.0	5.5	7.0	6.5
18	15.5	15.0	9.5	9.5	6.0	6.0	---	---	6.0	5.5	7.0	6.5
19	15.5	15.0	9.5	9.5	6.5	6.0	5.5	4.5	6.0	5.5	7.5	6.5
20	15.5	15.0	9.5	9.5	6.0	6.0	6.5	4.5	6.0	5.5	7.0	5.5
21	15.0	15.0	9.5	9.0	6.0	6.0	5.0	5.0	6.0	6.0	7.0	6.5
22	---	---	9.0	9.0	6.5	6.0	5.5	5.0	6.0	5.5	7.0	6.5
23	---	---	9.0	8.5	6.0	6.0	5.5	5.0	6.5	5.5	7.0	6.5
24	---	---	8.5	8.5	6.0	6.0	5.5	5.0	6.5	5.5	7.5	6.5
25	---	---	8.5	8.0	6.0	6.0	5.0	5.0	6.0	5.5	7.5	6.5
26	---	---	8.0	8.0	6.0	6.0	5.0	5.0	6.0	5.5	7.5	7.0
27	---	---	8.0	8.0	6.0	5.5	5.0	5.0	5.5	5.5	7.5	7.0
28	---	---	8.0	7.5	6.0	5.5	5.0	5.0	5.5	5.5	7.5	7.0
29	---	---	8.0	7.5	5.5	5.5	5.0	5.0	---	---	7.5	7.0
30	---	---	7.5	7.5	5.5	5.5	5.5	5.0	---	---	7.5	7.0
31	---	---	---	---	5.5	5.5	5.5	5.5	---	---	7.5	7.0
MONTH	---	---	---	---	7.5	5.5	---	---	6.5	5.0	7.5	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.0	10.0	9.0	10.5	9.5	12.0	10.5	17.0	14.5	15.5	13.5
2	7.5	7.0	10.5	9.0	10.5	9.5	12.5	11.0	17.0	15.0	16.0	14.0
3	7.5	7.0	11.0	9.0	11.0	10.0	12.5	11.0	17.0	15.0	16.0	14.5
4	7.5	7.0	11.0	9.0	10.5	10.0	12.5	11.5	17.0	14.5	16.0	14.5
5	8.0	7.0	11.0	9.0	10.0	9.5	12.0	11.5	16.5	14.5	16.5	14.5
6	8.0	7.5	11.0	9.5	10.0	9.5	12.5	11.5	17.0	14.5	16.5	15.0
7	8.0	7.5	11.0	9.0	10.0	9.5	12.5	11.5	17.0	14.5	16.5	14.5
8	8.0	7.0	10.5	9.0	10.5	9.5	12.0	11.5	17.0	15.0	16.0	15.0
9	7.5	7.0	10.0	9.0	10.5	10.0	12.0	11.5	17.0	14.5	15.5	15.5
10	8.0	7.0	10.0	9.0	10.5	10.0	13.0	11.5	16.5	14.0	16.5	15.0
11	7.5	7.0	10.0	8.5	11.0	10.0	13.5	11.5	16.5	14.5	17.0	15.5
12	8.0	7.0	10.0	8.5	11.0	10.0	14.0	11.5	16.5	14.5	16.5	15.0
13	8.5	7.0	10.0	9.0	11.0	9.5	13.5	11.5	16.5	14.0	17.0	15.5
14	8.5	7.5	10.0	9.0	10.5	10.5	14.0	11.5	16.0	14.0	17.0	16.0
15	8.5	8.0	9.5	9.0	10.5	10.0	14.0	12.0	16.0	14.0	16.0	15.5
16	9.0	8.0	10.0	8.5	10.0	9.5	14.0	12.5	15.0	14.0	16.0	15.0
17	9.0	8.0	9.5	8.5	11.0	10.0	14.0	13.0	15.0	13.0	---	---
18	8.5	8.0	9.5	8.5	11.0	10.0	---	---	14.0	13.0	15.5	14.5
19	9.0	8.0	9.5	8.5	11.0	10.5	15.0	12.5	14.0	13.5	15.5	15.0
20	9.0	8.0	10.0	8.5	11.5	10.5	15.5	12.5	15.0	14.0	16.0	15.0
21	9.5	8.0	10.5	8.5	12.0	10.5	14.5	12.0	15.0	14.0	16.5	15.0
22	9.0	8.0	10.0	9.0	12.0	11.0	15.5	12.5	15.0	14.0	16.0	15.5
23	9.0	8.5	10.0	9.0	12.5	11.0	15.5	13.5	15.0	14.0	16.0	14.5
24	9.5	8.5	10.5	9.0	12.5	11.5	16.0	13.0	15.5	14.0	15.0	15.0
25	9.5	8.5	10.5	9.0	12.5	12.0	16.5	14.0	16.0	13.5	16.0	15.5
26	11.0	8.5	10.5	9.0	12.5	11.5	16.0	14.0	16.0	14.0	16.0	15.5
27	10.0	8.0	11.0	9.5	12.5	11.5	17.0	14.5	16.0	14.0	16.5	15.5
28	10.0	8.5	11.0	9.5	13.5	12.0	16.5	14.0	16.0	14.0	16.5	16.0
29	10.5	8.5	10.5	9.5	14.0	12.5	16.5	14.0	15.5	14.5	17.0	16.0
30	10.5	9.0	10.5	9.0	13.0	10.5	17.0	14.5	15.0	14.0	16.5	16.0
31	---	---	10.5	9.5	---	---	17.0	14.5	15.0	14.0	---	---
MONTH	11.0	7.0	11.0	8.5	14.0	9.5	17.0	10.5	17.0	13.0	17.0	13.5

14150300 FALL CREEK NEAR LOWELL, OREG.

LOCATION.--Lat 43°58'15", long 122°38'15", in SW¼ sec.25, T.18 S., R.1 E., Lane County, temperature recorder at gaging station on right bank, 0.1 mi (0.2 km) downstream from North Fork, 8.0 mi (12.9 km) northeast of Lowell, and at mile 14.4 (23.2 km).

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--Water temperatures: August 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 22.5°C July 30; minimum recorded, 4.0°C Oct. 29, Feb. 26, Mar. 4, 8, 13.

Period of record:

Water temperatures: Maximum, 24.5°C Aug. 11, 1971; minimum, freezing point Dec. 7, 8, 1972, Jan. 8, 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.0	9.0	---	---	---	---	---	---	6.0	5.0
2	---	---	9.0	8.5	---	---	---	---	---	---	5.5	5.0
3	---	---	8.5	8.0	---	---	---	---	---	---	5.0	4.5
4	---	---	8.0	7.5	---	---	---	---	---	---	5.0	4.0
5	---	---	8.5	7.5	---	---	---	---	---	---	5.5	5.0
6	---	---	8.5	7.0	---	---	---	---	6.0	5.5	5.5	5.0
7	---	---	7.5	6.0	---	---	---	---	6.0	5.5	5.0	4.5
8	---	---	---	---	---	---	---	---	6.0	5.5	5.0	4.0
9	---	---	---	---	---	---	---	---	6.5	5.5	6.0	4.5
10	---	---	---	---	---	---	---	---	6.5	5.5	6.0	5.0
11	---	---	---	---	---	---	---	---	6.5	5.5	6.5	5.5
12	---	---	---	---	---	---	---	---	6.5	6.0	6.0	4.5
13	---	---	---	---	---	---	---	---	6.5	5.0	5.5	4.0
14	---	---	---	---	---	---	---	---	7.0	6.0	6.5	5.0
15	---	---	---	---	---	---	---	---	7.0	6.0	---	4.5
16	---	---	---	---	---	---	---	---	7.0	6.0	---	---
17	12.0	---	---	---	---	---	---	---	6.5	6.0	---	---
18	11.5	9.0	---	---	---	---	---	---	7.0	6.0	---	---
19	10.5	9.5	---	---	---	---	---	---	7.0	6.0	---	---
20	11.5	10.0	6.5	6.0	---	---	---	---	7.0	6.0	---	---
21	11.0	10.5	6.5	5.5	---	---	---	---	6.5	5.0	---	---
22	10.5	10.0	---	5.5	---	---	---	---	5.5	4.5	---	---
23	10.5	10.0	---	---	---	---	---	---	5.5	4.5	---	---
24	10.0	9.5	---	---	---	---	---	---	6.0	4.5	---	---
25	9.5	8.0	---	---	---	---	---	---	6.5	5.5	---	---
26	9.5	7.5	---	---	---	---	---	---	6.0	4.0	---	---
27	9.0	8.0	---	---	---	---	---	---	5.5	4.5	---	---
28	10.0	9.0	---	---	---	---	---	---	5.5	5.0	---	---
29	10.5	4.0	---	---	---	---	---	---	---	---	---	---
30	8.0	5.0	---	---	---	---	---	---	---	---	---	---
31	9.0	8.0	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	7.0	4.0	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	21.0	17.5	18.5	15.5
2	---	---	10.0	7.5	---	---	---	---	21.0	17.5	18.5	16.0
3	---	---	11.0	7.5	---	---	---	---	21.0	18.0	18.5	16.5
4	---	---	11.5	8.0	13.0	11.0	---	---	21.5	18.5	18.5	15.0
5	---	---	12.5	9.5	11.0	10.0	---	---	20.0	18.5	17.5	14.0
6	---	---	12.5	10.5	11.0	9.5	---	---	19.0	16.5	17.5	14.0
7	---	---	13.0	10.5	11.0	9.0	---	---	18.0	15.0	17.0	13.5
8	---	---	13.0	10.5	12.5	8.0	---	---	18.0	14.0	17.5	15.0
9	---	---	11.5	9.5	13.5	9.0	---	---	18.5	14.5	16.0	15.5
10	---	---	11.0	8.5	14.5	10.5	---	---	19.0	15.5	17.0	14.5
11	---	---	10.5	9.5	15.5	12.0	---	---	18.5	15.5	15.0	12.0
12	---	---	10.0	8.5	16.0	13.0	---	---	18.0	14.5	15.0	12.0
13	---	---	8.5	7.0	16.5	13.5	---	---	16.5	13.0	15.0	11.5
14	---	---	8.5	7.5	16.5	13.5	---	---	16.0	12.5	15.5	12.0
15	---	---	7.5	6.5	14.5	13.0	---	---	16.5	13.5	15.0	12.0
16	---	---	7.5	6.0	15.0	12.5	---	---	17.5	13.5	15.0	12.0
17	---	---	8.0	6.0	16.5	13.0	---	---	17.5	14.5	15.0	12.0
18	---	---	7.5	6.5	17.5	15.0	---	---	16.5	15.0	15.0	12.0
19	---	---	8.5	6.5	18.5	14.0	---	---	15.0	14.0	15.5	12.5
20	---	---	10.0	7.5	---	---	---	---	16.0	13.0	15.5	12.5
21	---	---	9.5	7.0	---	---	---	---	16.5	13.5	15.5	13.0
22	---	---	9.5	8.5	---	---	---	---	17.5	14.0	15.5	13.0
23	---	---	11.0	8.5	---	---	---	---	18.5	16.0	15.5	12.5
24	---	---	11.5	9.5	---	---	---	---	18.5	15.0	15.5	12.5
25	---	---	14.0	10.5	---	---	19.0	---	19.0	15.0	15.0	12.5
26	---	---	14.0	11.5	---	---	19.0	16.0	19.0	16.0	14.5	12.5
27	---	---	14.0	11.5	---	---	20.0	16.5	19.0	16.0	13.0	10.5
28	---	---	12.5	9.0	---	---	21.0	17.0	19.0	16.5	12.5	10.0
29	---	---	---	---	---	---	21.5	18.5	19.0	16.5	12.5	9.5
30	---	---	---	---	---	---	22.5	19.0	17.5	16.5	12.0	9.5
31	---	---	---	---	---	---	21.5	18.0	17.5	16.0	---	---
MONTH	---	---	14.0	6.0	---	---	---	---	21.5	12.5	18.5	9.5

14150800 WINBERRY CREEK NEAR LOWELL, OREG.

LOCATION.--Lat 43°54'50", long 122°41'15", in NE¼SE¼ sec.16, T.19 S., R.1 E., Lane County, temperature recorder at gaging station on right bank, 0.9 mi (1.5 km) upstream from Nelson Creek, 4.6 mi (7.4 km) east of Lowell, and at mile 4.4 (7.1 km).

DRAINAGE AREA.--43.9 mi² (113.7 km²).

PERIOD OF RECORD.--Water temperatures: August 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 25.5°C July 30; minimum, freezing point Jan. 5-12.

Period of record:

Water temperatures: Maximum, 26.5°C July 3, 1967; minimum, freezing point on several days in 1965, Jan. 4, 30, Feb. 2, 3, 1972, Dec. 6-17, 1972, and Jan. 5-12, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.0	9.5	6.5	8.5	7.5	6.0	3.5	7.5	6.5	7.5	5.5
2	11.0	7.5	6.5	4.5	8.0	6.0	3.5	2.0	7.0	5.5	6.0	4.5
3	10.5	6.5	6.5	4.5	8.0	6.0	3.5	1.5	7.0	4.5	6.0	4.0
4	10.5	6.5	6.5	4.0	7.0	5.5	2.0	1.0	6.5	5.0	6.0	4.5
5	10.0	7.0	6.5	3.0	8.0	6.5	1.0	0.0	6.5	5.0	6.5	5.5
6	11.5	9.5	7.5	6.0	---	---	0.5	0.0	5.5	4.0	6.5	5.0
7	10.5	8.5	7.5	7.0	9.0	6.5	0.0	0.0	5.0	4.0	6.0	4.5
8	10.5	7.0	8.5	7.0	8.0	6.5	0.0	0.0	5.0	4.0	5.5	3.5
9	10.0	7.0	10.0	9.0	7.0	6.0	0.0	0.0	5.5	4.0	6.5	4.0
10	9.5	6.5	9.5	9.0	7.5	5.5	0.5	0.0	5.5	4.0	6.5	4.5
11	11.5	8.5	9.5	9.0	8.5	6.5	0.0	0.0	5.5	4.5	7.0	5.5
12	12.5	10.5	9.5	8.0	8.0	6.0	0.5	0.0	6.0	4.5	6.0	5.0
13	13.0	10.5	8.5	8.0	7.5	6.5	4.5	1.0	5.5	3.5	5.5	4.0
14	12.5	9.5	8.0	7.5	8.0	6.5	7.0	4.0	6.5	5.0	6.5	5.0
15	11.0	8.0	9.5	8.0	9.0	7.0	8.0	7.0	6.5	5.0	8.5	6.5
16	10.5	7.5	9.0	7.5	9.0	7.5	8.5	7.5	6.5	4.5	8.0	6.5
17	10.5	7.5	8.0	6.5	9.0	7.5	7.5	6.0	6.5	5.0	7.5	6.0
18	11.0	7.5	7.5	6.0	8.5	6.5	9.0	6.0	7.5	4.5	7.5	5.0
19	10.5	9.0	7.0	5.5	8.0	6.0	8.0	5.5	7.0	5.5	8.0	5.5
20	11.5	10.0	6.5	6.0	9.5	8.0	6.5	5.5	7.0	5.5	7.5	4.5
21	11.0	10.0	6.5	5.0	9.0	7.5	5.5	4.5	7.0	4.5	7.5	4.5
22	11.0	9.5	7.5	5.5	7.5	6.5	6.5	5.5	5.5	4.0	7.5	4.5
23	10.5	9.5	7.5	7.0	8.0	6.5	7.0	5.0	6.0	4.0	8.0	5.5
24	10.5	9.0	8.0	6.5	9.0	6.0	6.0	4.5	6.5	4.0	8.5	5.0
25	10.0	8.0	7.5	6.5	8.5	5.5	6.5	5.5	6.5	5.5	9.0	6.5
26	9.0	6.0	8.0	7.0	7.5	5.5	6.0	4.5	6.0	4.0	9.5	6.0
27	9.5	7.0	8.5	7.5	8.5	6.5	6.5	4.5	6.0	4.5	8.0	7.0
28	9.5	8.0	8.5	8.0	8.5	6.5	7.5	5.5	6.0	5.0	7.5	6.5
29	9.0	8.0	8.5	7.5	8.0	7.0	7.5	5.5	---	---	8.5	6.0
30	9.5	7.5	9.0	8.0	7.5	6.5	8.0	6.0	---	---	7.5	6.0
31	10.0	9.5	---	---	7.0	6.0	8.0	6.0	---	---	6.5	5.5
MONTH	13.0	6.0	10.0	3.0	9.5	5.5	9.0	0.0	7.5	3.5	9.5	3.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	9.5	8.0	15.5	9.5	18.0	14.5	24.0	18.0	20.5	16.0
2	6.5	6.0	11.0	6.5	15.5	10.5	19.0	11.5	24.5	18.5	20.5	17.0
3	7.5	4.5	12.0	6.5	14.5	11.5	20.0	12.5	24.5	18.5	20.5	17.5
4	8.5	5.5	13.0	7.0	13.0	10.5	19.5	14.0	24.5	19.5	18.5	15.5
5	8.0	7.0	14.0	8.5	10.5	9.5	17.0	15.0	22.0	18.5	19.0	14.5
6	7.5	6.0	13.0	9.5	10.5	9.0	17.5	13.5	21.5	17.0	18.5	15.0
7	9.0	5.5	13.0	9.5	11.0	8.0	18.0	13.0	20.5	15.0	18.5	14.5
8	8.0	6.5	12.5	9.5	12.5	7.5	16.5	14.5	20.5	14.5	19.5	17.0
9	7.0	6.0	10.0	8.5	14.0	8.5	14.5	13.0	21.5	15.5	18.0	16.5
10	8.0	5.5	10.5	8.0	15.5	10.0	15.0	12.5	22.0	16.0	18.0	15.5
11	7.5	6.5	10.0	8.5	16.5	11.5	16.0	12.0	21.0	16.5	17.0	13.0
12	7.5	5.5	9.0	7.5	17.0	12.5	19.0	11.5	19.5	15.0	16.5	12.5
13	8.5	5.0	8.5	5.5	17.5	12.5	20.0	12.5	17.5	13.5	16.5	12.0
14	9.5	5.5	8.0	6.5	15.0	12.5	20.5	14.0	19.0	13.0	16.5	12.0
15	8.0	6.5	8.0	6.0	13.5	12.5	20.0	15.0	19.5	14.0	16.5	12.5
16	9.5	5.0	8.0	5.5	15.0	12.0	17.0	12.5	20.0	14.5	16.5	13.0
17	10.0	6.0	7.5	6.0	17.5	12.0	17.5	15.0	20.0	15.0	16.5	12.5
18	9.0	6.5	7.5	6.0	19.0	14.0	19.0	16.0	18.5	16.0	16.5	13.0
19	8.0	6.0	8.5	6.5	16.0	13.0	19.5	16.0	16.0	15.0	17.0	13.0
20	9.0	6.5	11.0	7.0	17.5	11.5	22.0	15.0	19.5	14.5	17.0	13.5
21	11.5	6.5	10.0	6.5	19.0	12.5	22.0	15.5	19.0	13.5	17.5	14.0
22	9.5	7.5	9.5	7.5	16.0	14.0	22.0	15.0	19.5	15.0	17.5	14.0
23	8.5	6.5	11.5	7.5	17.5	12.5	21.0	16.5	20.5	17.5	17.5	13.5
24	9.5	6.0	12.0	9.0	18.0	11.5	22.0	15.0	21.0	16.0	17.0	13.5
25	9.0	6.5	15.0	10.0	15.0	12.0	22.5	15.0	21.0	16.0	16.5	13.0
26	9.0	5.5	14.5	11.0	13.5	10.0	22.0	16.0	21.0	16.5	15.5	13.0
27	8.5	7.0	14.0	10.5	15.0	12.0	23.0	16.5	21.0	17.0	14.0	11.0
28	10.0	7.0	12.0	8.5	19.0	11.5	24.5	17.5	21.0	18.0	13.5	10.5
29	11.5	6.5	10.5	9.0	21.0	13.5	25.0	19.5	19.5	18.0	13.0	10.0
30	11.5	8.0	13.0	7.0	22.0	15.5	25.5	19.5	19.0	17.5	13.0	10.0
31	---	---	14.0	8.0	---	---	25.0	18.5	18.5	17.0	---	---
MONTH	11.5	4.5	15.0	5.5	22.0	7.5	25.5	11.5	24.5	13.0	20.5	10.0

14151000 FALL CREEK BELOW WINBERRY CREEK, NEAR FALL CREEK, OREG.

LOCATION.--Lat 43°56'40", long 122°46'25", in NW¼SE¼ sec.2, T.19 S., R.1 W., Lane County, temperature recorder at gaging station on left bank, 10 ft (3 m) upstream from highway bridge, 1.1 mi (1.8 km) downstream from Fall Creek Dam, 2.3 mi (3.7 km) southeast of town of Fall Creek, and at mile 6.1 (9.8 km).

DRAINAGE AREA.--186 mi² (482 km²).

PERIOD OF RECORD.--Water temperatures: August 1950 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 20.0°C Aug. 24, 25, 27; minimum, 1.0°C Jan. 10.

Period of record:

Water temperatures: Maximum, 26.0°C July 28, 1958; minimum, 0.5°C on several days in 1962 and 1965.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	13.5	11.5	8.0	8.0	6.0	4.0	6.5	6.0	5.5	5.5
2	8.5	8.5	11.5	10.0	8.0	8.0	4.0	3.5	6.5	6.5	5.5	5.5
3	8.5	8.5	10.5	10.0	8.0	8.0	4.0	3.5	6.0	6.0	5.5	5.5
4	8.5	8.5	10.0	9.0	8.0	7.0	3.5	3.0	6.0	6.0	5.5	5.5
5	8.5	8.5	9.0	8.0	7.0	7.0	3.0	2.0	6.0	6.0	5.5	5.5
6	8.5	8.5	8.0	7.0	7.0	7.0	3.0	2.0	6.0	5.5	5.5	5.5
7	9.0	9.0	8.0	8.0	7.0	6.5	2.0	1.5	6.0	5.5	5.5	5.5
8	9.0	9.0	8.0	8.0	7.0	6.5	1.5	1.5	5.5	5.5	5.5	5.0
9	9.5	9.5	8.0	7.0	6.5	6.5	1.5	1.5	5.5	5.5	5.5	5.5
10	10.0	10.0	8.0	7.0	6.5	6.5	1.5	1.0	5.5	5.0	5.5	5.5
11	11.5	10.5	8.0	8.0	6.5	6.5	1.5	1.5	5.5	5.0	5.5	5.5
12	12.0	11.5	8.0	8.0	7.0	6.5	1.5	1.5	5.5	5.5	5.5	5.5
13	13.5	12.0	8.0	8.0	7.0	6.5	1.5	1.5	5.5	5.5	5.5	5.5
14	14.0	13.5	8.0	8.0	6.5	6.5	3.5	1.5	5.5	5.5	5.5	5.5
15	14.5	14.0	8.0	8.0	6.5	6.5	3.5	3.5	5.5	5.5	5.5	5.5
16	14.5	14.5	8.0	8.0	7.0	6.5	6.5	6.5	5.5	5.5	6.0	6.0
17	15.0	14.5	8.0	8.0	8.0	7.0	6.5	6.0	5.5	5.5	6.0	6.0
18	15.0	15.0	8.0	8.0	7.0	7.0	6.5	6.0	5.5	5.5	5.5	5.5
19	15.0	15.0	8.0	8.0	7.0	7.0	6.0	6.0	5.5	5.5	6.0	6.0
20	15.0	15.0	8.0	7.0	7.0	7.0	6.0	6.0	5.5	5.5	6.0	6.0
21	15.0	15.0	7.0	7.0	7.0	7.0	6.5	6.0	5.5	5.5	6.0	6.0
22	15.0	14.5	7.0	7.0	7.0	7.0	6.5	6.5	5.5	5.5	6.5	6.0
23	14.5	14.5	7.0	7.0	7.0	7.0	7.0	6.5	5.5	5.5	6.5	6.0
24	14.5	14.5	7.0	7.0	7.0	7.0	6.5	6.5	5.5	5.5	7.0	6.5
25	14.5	14.0	7.0	7.0	7.0	7.0	6.5	6.0	5.5	5.5	7.0	6.5
26	14.0	14.0	7.0	7.0	7.0	6.5	6.0	6.0	5.5	5.5	6.5	6.5
27	14.0	14.0	7.0	7.0	7.0	6.5	6.0	6.0	5.5	5.5	6.5	6.5
28	14.0	14.0	7.0	7.0	7.0	6.5	6.0	6.0	5.5	5.5	6.5	6.5
29	14.0	13.5	8.0	7.0	7.0	6.5	6.0	6.0	---	---	6.5	6.5
30	13.5	13.5	8.0	8.0	7.0	6.5	6.0	6.0	---	---	6.5	6.5
31	13.5	13.5	---	---	6.5	6.0	6.0	6.0	---	---	6.5	6.5
MONTH	15.0	8.0	13.5	7.0	8.0	6.0	7.0	1.0	6.5	5.0	7.0	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.5	8.5	8.5	10.5	9.5	9.0	8.5	9.5	8.5	14.0	13.5
2	6.5	6.5	9.0	8.5	11.0	9.5	11.0	8.5	9.5	8.5	14.0	13.5
3	6.5	6.5	9.0	8.5	11.0	10.0	11.0	8.5	9.5	8.5	14.0	13.5
4	6.5	6.5	9.5	8.5	10.5	8.0	10.5	8.5	9.5	8.5	14.0	10.5
5	6.5	6.5	10.0	9.0	8.0	8.0	9.5	8.5	9.0	8.5	14.5	10.5
6	6.5	6.5	9.5	9.0	8.0	8.0	10.0	8.5	12.0	8.5	14.0	13.0
7	6.5	6.5	11.5	9.0	8.0	8.0	10.0	8.5	10.0	9.5	14.0	13.0
8	8.5	7.0	13.0	10.5	8.5	8.0	9.5	8.5	10.0	9.5	14.0	13.5
9	8.5	8.0	12.0	10.5	12.0	8.5	8.5	8.5	10.0	9.5	13.5	13.5
10	8.0	8.0	13.0	10.5	13.0	11.5	8.5	8.5	10.0	9.5	14.0	13.5
11	7.0	7.0	12.0	11.0	12.0	11.5	8.5	8.0	10.0	9.5	14.0	13.5
12	7.0	7.0	11.5	11.0	13.0	11.5	9.0	8.0	10.0	9.5	13.5	13.0
13	7.0	7.0	12.0	10.5	13.0	11.5	9.5	8.0	10.0	9.5	13.5	13.5
14	8.0	7.0	11.0	10.5	12.0	11.5	9.5	8.0	10.0	9.5	13.5	13.5
15	8.0	8.0	12.0	10.0	12.0	12.0	9.5	8.5	10.0	9.5	13.5	9.0
16	8.5	8.0	13.0	10.5	13.0	12.0	9.5	8.5	10.0	9.5	9.5	9.0
17	8.5	8.0	10.5	9.0	13.0	12.0	9.0	8.5	10.0	9.5	9.5	9.0
18	8.5	8.0	8.5	8.0	13.0	12.0	9.0	8.5	10.0	10.0	9.5	9.5
19	9.0	8.5	8.0	7.0	12.0	12.0	9.5	8.5	10.0	10.0	9.5	9.0
20	8.5	8.5	8.0	7.0	13.5	12.0	10.0	8.5	10.0	10.0	9.0	9.0
21	9.0	8.5	8.5	8.0	14.0	12.0	10.5	8.5	10.0	10.0	9.0	9.0
22	9.0	8.5	10.0	8.0	13.5	13.0	10.5	8.5	16.5	10.0	9.0	9.0
23	9.0	8.5	10.0	9.5	14.0	13.0	10.5	8.5	16.5	15.5	9.5	9.0
24	8.5	8.0	10.0	9.5	14.0	13.5	10.5	8.5	20.0	15.5	9.5	9.5
25	8.0	8.0	9.5	8.0	13.5	13.0	11.5	8.5	20.0	19.0	9.5	9.5
26	9.5	8.0	8.5	8.0	14.0	13.0	12.0	8.5	19.5	19.0	10.0	9.5
27	9.5	8.5	8.5	8.0	13.5	13.0	13.0	9.0	20.0	19.5	10.0	10.0
28	9.5	8.5	10.0	8.5	14.0	9.0	13.5	9.0	19.5	14.0	10.0	9.5
29	9.0	7.0	10.5	9.5	11.5	8.5	13.5	9.0	14.0	13.5	10.5	10.0
30	8.5	8.0	10.5	9.5	11.0	8.5	13.5	9.0	13.5	13.5	11.0	10.5
31	---	---	10.5	9.5	---	---	11.0	9.0	13.5	13.5	---	---
MONTH	9.5	6.5	13.0	7.0	14.0	8.0	13.5	8.0	20.0	8.5	14.5	9.0

14152000 MIDDLE FORK WILLAMETTE RIVER AT JASPER, OREG.

LOCATION.--Lat 43°59'55", long 122°54'20", in SW¼SW¼ sec.14, T.18 S., R.2 W., Lane County, temperature recorder at gaging station on right bank 25 ft (8 m) downstream from highway bridge at Jasper, 0.1 mi (0.2 km) downstream from Hills Creek, and at mile 195.0 (313.8 km).

DRAINAGE AREA.--1,340 mi² (3,470 km²).

PERIOD OF RECORD.--Water temperatures: October 1953 to December 1962, October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 16.5°C July 28-31, Aug. 28, Sept. 6, 7; minimum 3.0°C Jan. 11-13.

Period of record:

Water temperatures: Maximum, 20.5°C July 27, 28, 1958; minimum, 1.5°C Jan. 25-27, 1969.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	13.0	11.5	7.5	7.5	6.0	5.5	6.5	6.0	6.0	6.0
2	11.0	10.0	11.5	11.0	7.5	7.5	5.5	5.0	6.5	6.0	6.0	6.0
3	11.0	10.0	11.0	11.0	7.5	8.0	5.0	5.0	6.5	5.5	6.0	5.5
4	11.0	10.0	11.0	10.0	7.5	7.0	5.0	5.0	6.5	6.0	6.0	6.0
5	11.0	10.0	10.0	8.5	7.0	7.0	5.0	4.5	6.5	5.5	6.0	6.0
6	10.5	10.5	8.5	8.5	7.0	7.0	4.5	4.5	6.0	5.0	6.0	6.0
7	11.0	10.5	8.5	8.5	8.5	7.0	4.5	4.0	6.0	5.5	6.0	5.5
8	11.0	10.5	8.5	8.5	8.0	7.0	4.0	4.0	5.5	5.0	6.0	5.0
9	11.5	10.5	9.5	8.5	7.0	6.5	4.0	3.5	6.0	5.0	6.5	6.0
10	12.0	11.0	9.5	9.5	7.0	6.5	3.5	3.5	6.0	5.0	6.5	6.5
11	13.5	12.0	9.5	9.5	7.0	7.0	3.5	3.0	6.0	5.0	6.5	6.5
12	14.0	13.5	9.5	9.5	7.0	7.0	3.0	3.0	6.5	5.0	6.5	6.0
13	14.5	13.5	9.5	9.0	7.0	7.0	3.5	3.0	6.5	5.0	6.0	5.5
14	14.5	14.0	9.0	9.0	7.0	6.5	4.5	3.5	6.5	6.0	6.5	6.0
15	14.5	14.0	9.0	9.0	7.5	7.0	6.5	5.0	6.5	6.0	7.5	6.5
16	14.5	14.5	9.0	9.0	7.5	7.0	7.0	6.5	6.5	6.0	7.5	7.5
17	14.5	14.5	9.0	8.5	8.0	7.5	7.0	6.0	6.5	5.5	7.5	7.0
18	15.0	14.5	8.5	8.0	7.5	7.0	7.0	6.5	7.0	6.0	7.0	6.0
19	14.5	14.5	8.0	8.0	7.0	7.0	7.0	5.5	7.0	6.5	7.5	6.5
20	14.5	14.5	8.0	8.0	7.0	7.0	5.5	5.5	6.5	6.0	7.5	6.5
21	14.5	14.5	8.0	8.0	8.0	7.0	6.0	5.5	6.5	6.0	7.5	6.0
22	14.5	14.5	8.0	7.0	7.0	7.0	6.5	6.0	6.5	5.5	7.0	6.5
23	14.5	14.0	7.0	7.0	7.0	7.0	6.0	6.0	6.5	5.5	7.5	6.5
24	14.0	14.0	7.0	7.0	7.0	7.0	6.0	5.5	7.0	5.0	7.5	6.5
25	14.0	13.5	7.0	7.0	6.5	6.5	6.0	6.0	6.5	6.0	7.5	7.5
26	13.5	13.5	7.0	7.0	6.5	6.5	6.0	5.5	6.5	5.5	8.0	7.0
27	13.5	13.5	7.5	7.5	6.5	6.5	6.0	5.5	6.0	5.0	8.0	7.5
28	13.5	13.5	7.5	7.5	6.5	6.5	6.0	6.0	6.0	6.0	7.5	7.0
29	13.5	13.5	7.5	7.0	6.5	6.5	6.0	6.0	---	---	8.0	7.5
30	13.5	13.5	7.5	7.5	6.5	6.5	6.0	6.0	---	---	8.0	8.0
31	13.5	13.0	---	---	6.5	6.0	6.5	6.0	---	---	8.0	7.5
MONTH	15.0	10.0	13.0	7.0	8.5	6.0	7.0	3.0	7.0	5.0	8.0	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.5	10.5	9.0	12.0	9.5	12.0	12.0	16.0	13.5	16.0	14.5
2	7.5	7.5	11.5	9.0	12.0	10.0	14.0	11.5	16.0	13.5	16.0	14.0
3	7.5	7.5	12.0	9.0	11.5	10.0	14.0	12.0	16.0	13.5	15.5	14.5
4	8.0	7.5	12.0	9.0	10.5	10.5	14.0	12.0	16.0	13.5	16.0	14.0
5	8.0	7.5	12.5	9.5	10.5	9.0	12.5	12.0	15.5	13.5	16.0	13.0
6	8.0	7.5	12.0	10.0	10.0	9.0	13.5	12.0	15.5	12.0	16.5	14.5
7	9.0	7.5	12.5	10.0	10.0	9.0	13.5	7.5	15.5	11.5	16.5	14.5
8	8.5	7.5	12.0	10.0	11.5	9.0	12.5	12.5	15.5	11.5	16.0	15.0
9	8.0	8.0	10.5	9.5	11.5	9.5	12.5	11.5	15.5	12.0	15.5	15.0
10	8.0	8.0	11.0	9.0	12.0	10.0	12.5	11.0	15.5	12.0	16.0	14.5
11	8.0	8.0	11.0	9.5	12.0	10.5	13.5	11.0	15.5	12.0	16.0	14.0
12	8.5	7.5	11.0	9.0	12.0	10.5	14.5	10.5	15.0	12.0	16.0	14.0
13	9.0	7.0	10.5	9.0	12.0	10.5	15.0	11.5	14.5	12.0	16.0	14.5
14	9.0	7.5	10.0	9.0	11.0	10.5	15.0	11.5	15.0	13.0	16.0	14.5
15	8.5	8.0	10.0	8.5	11.0	10.5	14.5	13.0	15.0	13.5	15.5	13.0
16	9.5	8.0	10.0	8.5	11.5	10.0	14.5	12.0	15.0	13.5	14.0	12.0
17	9.5	8.0	9.5	8.5	12.0	10.5	13.5	13.0	15.0	13.0	13.5	12.0
18	9.0	8.5	10.0	8.5	12.0	11.0	13.5	13.0	14.0	13.0	14.0	13.0
19	9.5	8.5	10.0	8.5	11.0	10.5	14.0	13.0	13.5	13.5	13.5	13.0
20	9.5	8.5	11.5	8.5	12.0	10.5	15.5	13.0	14.5	13.0	13.5	13.0
21	11.0	8.5	11.0	8.5	12.5	10.5	15.5	12.0	14.5	12.0	13.5	13.0
22	9.5	9.0	10.5	9.0	11.5	11.0	16.0	12.0	15.0	13.0	13.5	13.0
23	9.5	9.0	11.5	9.0	12.5	11.0	16.0	13.5	15.5	14.0	13.5	13.0
24	10.0	9.0	11.5	9.5	12.5	11.0	16.0	13.0	15.5	14.0	13.5	13.0
25	10.0	9.0	12.0	9.5	11.5	11.5	16.0	13.0	16.0	14.0	14.0	13.0
26	11.0	8.0	12.0	9.5	12.0	10.5	15.5	13.5	16.0	14.0	14.0	13.5
27	9.5	8.5	12.0	9.5	12.5	11.0	16.0	13.5	16.0	14.0	13.5	13.0
28	10.5	8.5	12.0	9.5	14.0	11.0	16.5	13.5	16.5	14.5	14.0	13.5
29	11.0	8.5	10.5	10.0	15.0	11.5	16.5	14.0	15.5	14.5	14.0	13.5
30	11.5	9.0	11.5	9.0	15.0	12.0	16.5	14.0	15.0	14.5	14.0	13.5
31	---	---	12.0	9.5	---	---	16.5	13.5	14.5	14.5	---	---
MONTH	11.5	7.0	12.5	8.5	15.0	9.0	16.5	7.5	16.5	11.5	16.5	12.0

WILLAMETTE RIVER BASIN

14152500 COAST FORK WILLAMETTE RIVER AT LONDON, OREG.

LOCATION.--Lat 43°38'30", long 123°05'05", in SW¼ sec.20, T.22 S., R.3 W., Lane County, temperature recorder on left bank, 700 ft (213 m) upstream from gaging station, 0.6 mi (1.0 km) north of London, 11.0 mi (17.7 km) south of Cottage Grove, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--72.1 mi² (186.7 km²).

PERIOD OF RECORD.--Water temperatures: July 1960 to September 1965, June 1967 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 25.0°C July 30; minimum, freezing point Jan. 9.

Period of record:

Water temperatures: Maximum, 25.5°C July 7, 1968, Aug. 11, 1971; minimum, freezing point Jan. 9, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	9.5	6.5	8.0	7.5	6.0	4.0	---	---	---	---
2	11.0	8.5	6.5	5.5	8.0	7.0	4.0	3.5	---	---	---	---
3	11.0	7.5	6.0	4.5	7.5	6.0	3.5	3.0	---	---	---	---
4	10.5	6.5	6.5	6.0	7.0	6.0	3.0	2.0	---	---	---	---
5	10.5	7.5	7.0	3.5	8.5	6.0	2.0	1.0	---	---	---	---
6	11.5	9.5	8.0	6.5	8.5	7.5	1.5	0.5	---	---	---	---
7	11.0	8.5	8.0	7.0	9.0	8.0	1.0	0.5	---	---	---	---
8	10.0	8.0	9.0	7.5	8.0	6.5	1.0	0.5	---	---	---	---
9	11.5	8.5	10.0	9.0	7.5	6.5	1.0	0.0	---	---	---	---
10	10.5	7.0	10.0	8.5	7.5	6.5	1.0	0.5	---	---	---	---
11	12.0	8.5	10.0	9.5	8.0	6.0	2.5	0.5	---	---	---	---
12	13.0	10.5	9.5	8.5	7.5	6.5	4.5	2.5	---	---	---	---
13	13.0	11.0	8.5	8.0	7.5	6.5	6.5	4.5	---	---	---	---
14	12.5	10.0	8.5	7.5	7.5	6.5	7.5	6.5	---	---	---	---
15	12.0	8.5	9.5	8.5	9.0	7.0	8.0	7.5	---	---	---	---
16	11.5	8.0	9.0	8.0	9.0	8.5	8.0	7.0	---	---	---	---
17	12.0	8.0	8.0	7.0	8.5	8.0	7.5	6.5	---	---	---	---
18	12.0	8.5	7.5	6.5	8.5	6.5	8.5	6.5	---	---	---	---
19	11.0	10.0	7.0	6.0	8.0	6.5	7.5	6.5	---	---	---	---
20	12.5	10.5	7.5	6.0	9.0	7.5	---	5.5	---	---	---	---
21	11.5	10.0	7.0	6.5	8.5	7.5	---	---	---	---	---	---
22	11.0	9.5	7.5	6.5	7.5	6.5	---	---	---	---	---	---
23	10.5	9.5	7.5	6.5	8.0	6.5	---	---	---	---	---	---
24	10.5	9.5	7.5	6.5	9.0	6.5	---	---	---	---	---	---
25	9.5	8.0	7.5	6.5	8.0	6.0	---	---	---	---	---	---
26	9.0	7.0	7.5	6.5	7.5	6.5	---	---	---	---	---	---
27	10.0	7.0	8.5	6.5	8.0	7.0	---	---	---	---	---	---
28	10.0	8.5	8.5	8.0	8.0	7.0	---	---	---	---	---	---
29	10.0	8.0	8.5	8.0	8.5	6.5	---	---	---	---	---	---
30	9.5	6.5	8.5	8.0	7.5	6.0	---	---	---	---	---	---
31	10.5	9.0	---	---	7.0	6.0	---	---	---	---	---	---
MONTH	13.0	6.5	10.0	3.5	9.0	6.0	---	---	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.0	9.0	16.5	10.5	19.0	15.0	24.0	18.0	20.5	16.0
2	---	---	11.5	7.5	17.5	12.0	18.5	12.5	24.0	18.0	22.0	16.0
3	---	---	12.5	7.5	17.0	13.0	20.0	12.5	24.5	18.0	20.5	17.5
4	---	---	13.5	8.0	15.0	12.5	20.0	14.5	24.0	18.5	18.5	15.5
5	---	---	14.5	9.5	12.5	11.0	17.5	15.0	22.0	17.5	19.5	14.0
6	---	---	14.5	11.0	15.0	10.5	18.5	14.0	21.5	16.5	19.5	14.0
7	---	---	14.0	10.5	14.0	10.0	17.5	14.0	20.0	14.5	19.0	14.0
8	---	---	13.5	11.0	15.0	9.5	17.0	14.5	20.5	14.5	19.5	15.5
9	---	---	11.5	9.5	16.5	10.0	15.0	13.0	21.0	14.5	18.5	16.5
10	---	---	12.5	9.0	18.0	12.0	15.5	12.5	22.0	15.0	18.5	15.0
11	---	---	13.0	10.5	19.0	13.5	17.5	12.5	21.0	15.5	18.0	13.0
12	---	---	12.0	10.0	19.5	14.5	19.0	12.5	19.0	15.5	17.0	12.0
13	---	---	10.5	7.5	20.5	15.0	20.0	13.0	17.5	13.5	17.0	11.0
14	---	---	10.0	8.0	17.5	13.5	20.0	14.0	19.0	13.0	18.0	12.0
15	---	---	10.0	7.0	15.0	13.0	19.0	14.5	19.5	14.0	17.5	12.5
16	---	---	9.5	7.0	17.5	13.0	17.0	13.5	20.0	14.5	18.0	12.5
17	---	---	8.5	7.0	20.0	13.5	18.5	15.0	20.0	15.0	17.0	12.0
18	9.5	---	9.5	6.5	20.5	16.0	18.0	16.0	18.5	15.5	17.5	12.5
19	9.0	7.0	10.0	7.0	18.0	14.0	20.0	15.5	16.0	14.0	18.5	13.0
20	10.5	7.5	11.5	8.0	19.0	12.5	22.0	15.5	19.0	14.0	19.0	13.5
21	12.5	7.5	11.0	8.5	20.0	13.5	22.0	16.5	19.5	13.5	18.5	13.5
22	10.5	8.5	11.0	8.0	17.5	15.0	22.0	15.5	21.5	15.0	19.0	14.0
23	9.0	7.5	13.0	9.0	18.5	13.0	20.5	16.0	22.0	17.5	18.5	13.5
24	11.5	7.5	14.0	10.0	18.5	12.5	21.0	14.5	21.5	15.5	18.5	13.0
25	10.5	7.0	16.5	11.5	16.0	13.0	21.5	15.0	22.0	16.0	18.5	13.5
26	10.0	5.5	16.5	13.0	14.5	10.5	21.5	16.0	22.0	16.0	16.5	13.0
27	10.0	8.0	16.0	12.5	18.0	12.5	23.0	16.0	22.5	16.0	15.0	11.5
28	12.0	8.0	14.0	10.0	19.0	12.5	24.0	17.5	22.0	16.5	14.5	10.5
29	12.5	7.5	12.0	10.0	21.0	14.0	24.5	19.5	21.0	17.5	15.0	10.0
30	12.5	9.0	14.0	8.5	22.5	16.5	25.0	19.0	19.5	17.0	15.0	10.0
31	---	---	15.0	9.5	---	---	24.5	18.5	19.0	16.0	---	---
MONTH	---	---	16.5	6.5	22.5	9.5	25.0	12.5	24.5	13.0	22.0	10.0

14157500 COAST FORK WILLAMETTE RIVER NEAR GOSHEN, OREG.

LOCATION.--Lat 43°58'50", long 122°57'55", in NW¼ sec.29, T.18 S., R.2 W., Lane County, temperature recorder at gaging station on right bank at downstream side of bridge on State Highway 58, 2.5 mi (4.0 km) southeast of Goshen, and at mile 6.4 (10.3 km).

DRAINAGE AREA.--642 mi² (1,663 km²).

PERIOD OF RECORD.--Water temperatures: August 1961 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 23.5°C July 29, 30; minimum, 1.0°C Jan. 5-12.

Period of record:

Water temperatures: Maximum, 26.5°C July 24, 1962; minimum recorded, freezing point Jan. 12, 1963, Dec. 14-17, 1972.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	11.5	10.5	8.5	8.5	6.0	5.0	5.5	5.5	4.0	4.0
2	15.0	14.0	10.5	9.5	8.5	8.5	5.0	4.0	5.5	5.0	4.0	4.0
3	15.0	14.5	9.5	9.5	8.5	8.0	4.0	3.0	5.0	5.0	4.0	4.0
4	15.0	15.0	9.5	8.5	8.0	7.0	3.0	2.0	5.0	5.0	4.0	4.0
5	15.5	15.0	8.5	7.0	8.0	7.0	2.0	1.0	5.0	5.0	4.0	4.0
6	15.5	15.5	7.0	7.0	8.0	7.0	1.0	1.0	5.0	4.5	4.0	4.0
7	15.5	15.0	7.0	7.0	8.5	7.0	1.0	1.0	4.5	4.0	4.0	4.0
8	15.0	14.5	7.0	7.0	8.5	8.5	1.0	1.0	4.0	4.0	4.0	4.0
9	15.0	14.5	8.5	7.0	8.5	8.0	1.0	1.0	4.0	4.0	4.5	4.0
10	15.0	14.0	8.5	8.5	8.0	8.0	1.0	1.0	4.0	4.0	4.5	4.5
11	15.0	14.5	9.0	8.5	8.0	8.0	1.0	1.0	4.0	4.0	5.0	4.5
12	15.0	15.0	9.5	9.0	8.0	7.0	1.5	1.0	4.0	4.0	5.0	4.5
13	15.0	15.0	9.5	9.0	7.0	7.0	3.0	1.5	4.0	4.0	5.0	4.5
14	15.0	15.0	9.5	9.0	7.0	7.0	4.5	3.0	4.5	4.0	5.5	4.5
15	15.0	13.5	9.0	8.5	7.0	7.0	6.5	4.5	4.5	4.5	5.5	5.0
16	14.5	13.5	8.5	8.5	7.0	6.5	6.5	6.0	4.5	4.5	6.0	5.5
17	14.5	13.5	8.5	8.5	8.0	7.0	6.5	6.0	4.5	4.0	6.0	6.0
18	14.5	14.0	8.5	8.0	8.0	8.0	6.5	6.0	4.5	4.0	6.0	6.0
19	14.5	14.5	8.0	8.0	8.0	8.0	6.5	6.0	4.5	4.5	6.5	6.0
20	14.5	14.5	8.0	7.0	8.0	7.0	6.0	6.0	4.5	4.5	6.5	5.5
21	14.5	14.5	7.0	6.5	8.0	7.0	6.0	5.5	4.5	4.0	6.0	5.5
22	14.5	14.0	7.0	6.5	8.0	7.0	6.0	5.5	4.5	4.0	6.5	5.5
23	14.0	14.0	7.0	6.5	8.0	7.0	6.0	5.5	4.0	4.0	7.0	6.0
24	14.0	13.5	7.0	6.5	8.0	7.0	6.0	5.5	4.0	4.0	7.0	6.5
25	13.5	13.5	7.0	6.5	8.0	7.0	6.0	5.5	4.0	4.0	8.0	6.5
26	13.5	11.5	7.0	6.5	7.0	6.5	6.0	5.5	4.0	4.0	8.0	6.5
27	12.0	11.5	7.0	6.5	6.5	6.5	5.5	5.5	4.0	4.0	8.0	7.0
28	12.0	11.5	8.0	7.0	6.5	6.5	5.5	5.5	4.0	4.0	8.0	6.5
29	12.0	11.5	8.5	7.0	6.5	6.5	5.5	5.5	---	---	8.0	8.0
30	12.0	11.0	8.5	8.0	6.5	6.0	5.5	5.5	---	---	8.5	8.0
31	12.0	11.5	---	---	6.5	6.0	5.5	5.5	---	---	8.5	7.0
MONTH	16.0	11.0	11.5	6.5	8.5	6.0	6.5	1.0	5.5	4.0	8.5	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	12.0	11.0	17.0	14.0	21.0	17.0	22.0	19.5	17.0	15.5
2	8.5	7.0	11.0	10.0	18.5	15.0	18.5	15.0	22.0	19.5	18.0	16.5
3	8.5	7.0	12.0	10.0	17.0	15.0	19.5	15.5	22.0	19.5	17.0	16.5
4	8.5	7.0	13.5	11.5	15.5	14.0	19.5	17.0	22.0	20.0	16.5	16.0
5	9.0	8.0	14.5	13.0	14.0	12.0	19.5	17.0	21.5	19.5	17.0	15.5
6	9.0	8.0	14.5	13.5	13.0	11.5	19.5	15.5	20.5	18.5	18.0	16.5
7	9.0	8.0	14.5	13.0	13.0	11.0	17.0	16.0	20.0	17.0	18.5	16.5
8	9.0	9.0	13.5	12.0	14.0	11.0	18.0	16.0	19.5	17.0	18.5	17.0
9	9.0	8.5	13.0	12.0	14.5	12.0	16.0	15.0	20.0	17.0	18.5	17.0
10	9.0	8.5	12.0	11.0	15.5	14.0	15.5	14.5	21.0	18.0	18.0	18.0
11	9.0	9.0	13.5	12.0	16.5	15.0	17.0	15.0	20.5	18.0	18.5	16.5
12	9.0	8.0	13.5	13.0	17.0	15.5	19.5	16.0	19.5	17.0	18.5	16.5
13	9.5	8.5	13.0	11.0	17.0	15.5	20.5	17.0	19.0	16.5	18.5	17.0
14	9.5	8.5	11.5	11.0	16.5	13.5	21.5	18.5	19.5	16.0	19.0	17.0
15	9.5	9.0	11.0	11.0	13.5	13.5	20.5	19.0	20.0	17.0	19.0	18.0
16	10.0	9.0	11.0	11.0	15.5	13.5	19.5	17.0	20.0	17.0	18.5	17.0
17	10.0	9.0	11.0	10.5	19.0	15.0	18.5	18.5	19.5	17.0	18.5	16.5
18	10.0	9.5	11.0	10.5	20.5	17.0	18.5	18.5	19.0	17.0	18.5	17.0
19	10.0	9.0	10.5	9.5	20.0	16.0	20.5	17.0	18.0	16.5	19.0	17.0
20	10.0	9.5	11.5	9.5	17.0	14.5	21.5	18.5	18.5	15.5	19.0	17.0
21	11.0	9.5	11.5	10.0	19.5	16.0	22.0	19.5	19.0	16.5	19.0	18.0
22	11.0	10.5	11.0	10.0	19.0	17.0	22.0	19.5	20.0	17.0	19.0	18.0
23	10.5	9.5	11.5	10.0	18.0	15.0	21.5	20.0	20.5	19.0	19.0	18.0
24	11.0	9.5	12.0	10.5	19.0	15.0	22.0	19.0	20.5	18.0	19.0	18.0
25	11.0	9.5	14.0	12.0	18.5	16.0	21.0	19.5	21.0	18.0	19.0	18.0
26	10.5	9.5	14.0	13.0	16.0	14.0	20.5	19.0	21.0	18.5	19.0	18.0
27	11.0	10.5	14.0	12.0	15.5	14.5	21.0	19.0	21.0	18.5	18.5	16.5
28	11.5	10.5	13.5	11.5	18.5	14.5	22.0	19.5	21.0	19.0	17.0	16.5
29	12.0	11.0	13.0	11.5	20.5	16.5	23.5	20.0	20.5	18.0	18.0	16.5
30	12.0	12.0	14.0	10.5	21.5	19.0	23.5	20.5	18.0	17.0	18.0	16.5
31	---	---	15.5	13.0	---	---	23.0	20.0	16.0	15.5	---	---
MONTH	12.0	7.0	15.5	9.5	21.5	11.0	23.5	14.5	22.0	15.5	19.0	15.5

14159200 SOUTH FORK MCKENZIE RIVER ABOVE COUGAR LAKE, NEAR RAINBOW, OREG.

LOCATION.—Lat 44°02'50", long 122°13'00", in T.17 S., R.5 E., (unsurveyed), Lane County, temperature recorder at gaging station on right bank, 100 ft (30 m) upstream from Tipsoo Creek, 8.0 mi (12.9 km) south of Rainbow, 9.0 mi (14.5 km) southeast of town of Blue River, and at mile 10.4 (16.7 km).

DRAINAGE AREA.—160 mi² (414 km²) at cableway 0.2 mi (0.3 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.—Water temperatures: November 1957 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum, 15.0°C July 28-31; minimum recorded, 1.0°C Nov. 5 but may have been lower in January.

Period of record:

Water temperatures: Maximum, 17.0°C July 8, 1968; minimum, freezing point Dec. 7-11, 1972.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.0	7.0	6.0	---	---	3.0	1.5	---	---	---	---
2	8.5	5.5	5.5	5.0	---	---	2.0	1.5	---	---	---	---
3	8.5	5.5	5.5	4.5	---	---	---	1.5	---	---	---	---
4	8.5	5.5	4.5	3.0	---	---	---	---	4.5	---	---	---
5	8.5	6.0	3.5	1.0	---	---	---	---	5.5	3.5	---	---
6	8.5	7.5	4.5	2.5	---	---	---	---	4.0	2.5	---	---
7	8.0	6.5	5.0	4.5	---	---	---	---	4.0	2.5	---	---
8	8.0	5.5	5.0	4.5	---	---	---	---	4.5	3.0	---	---
9	7.5	5.5	6.5	5.5	---	---	---	---	4.5	3.5	---	---
10	8.0	5.5	---	---	---	---	---	---	4.5	3.0	---	---
11	9.0	7.0	---	---	---	---	---	---	5.0	3.0	---	---
12	9.0	7.5	---	---	---	---	---	---	4.0	3.5	---	---
13	9.0	7.5	---	---	---	---	---	---	4.5	3.5	---	---
14	8.5	6.0	---	---	---	---	---	---	4.5	3.5	---	---
15	8.5	6.0	---	---	---	---	---	---	4.5	3.5	---	---
16	8.5	6.0	---	---	---	---	---	---	4.5	3.5	---	---
17	8.5	6.5	---	---	---	---	---	---	4.5	3.5	---	---
18	8.5	6.5	---	---	5.0	4.5	---	---	4.0	3.5	---	---
19	8.0	6.5	---	---	5.0	5.0	---	---	4.0	3.0	---	---
20	9.0	8.0	---	---	5.5	5.0	---	---	4.5	3.5	---	---
21	8.5	8.0	---	---	5.0	4.5	---	---	4.0	3.5	---	---
22	8.0	7.5	---	---	4.5	4.0	---	---	4.0	3.5	---	---
23	7.5	7.0	---	---	4.5	4.0	---	---	4.0	3.0	---	---
24	8.0	7.0	---	---	5.0	4.0	---	---	4.0	3.0	---	---
25	7.5	6.0	---	---	4.5	3.5	---	---	---	---	---	---
26	7.0	5.5	---	---	4.5	3.5	---	---	---	---	---	---
27	7.5	6.0	---	---	4.5	4.5	---	---	---	---	---	---
28	7.5	7.0	---	---	4.5	3.5	---	---	---	---	---	---
29	7.5	6.5	---	---	4.5	4.0	---	---	---	---	---	---
30	7.5	6.0	---	---	4.0	3.5	---	---	---	---	---	---
31	8.0	7.0	---	---	3.5	3.0	---	---	---	---	---	---
MONTH	9.5	5.5	---	---	---	---	---	---	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.0	7.0	6.5	6.5	6.5	11.0	9.5	14.5	10.5	12.5	9.0
2	5.5	5.0	7.0	6.5	7.0	6.5	11.5	9.0	14.5	10.0	12.5	9.0
3	5.5	5.0	6.5	6.5	7.0	7.0	13.0	8.5	14.5	10.0	12.5	8.5
4	5.5	5.5	---	6.0	7.0	7.0	12.0	9.0	14.5	10.0	12.0	8.5
5	6.0	5.5	---	---	7.0	6.5	11.5	9.5	13.0	10.0	12.0	8.0
6	6.0	5.5	---	6.5	---	---	12.0	9.5	13.5	9.5	12.0	8.0
7	6.0	6.0	6.5	6.5	---	---	11.5	9.0	12.0	8.5	12.0	8.0
8	6.5	6.0	6.5	6.5	---	---	10.5	9.5	12.0	8.5	11.5	8.5
9	6.5	6.0	6.5	6.5	---	---	9.5	9.0	13.0	8.5	10.0	8.5
10	6.0	6.0	6.5	6.0	---	---	10.0	8.5	13.5	9.0	11.0	8.0
11	6.5	6.0	6.5	6.5	---	---	10.0	8.0	13.0	9.0	10.5	7.0
12	6.5	6.0	6.5	6.5	---	---	11.5	7.0	12.0	8.5	10.5	7.0
13	6.0	6.0	6.5	6.0	---	---	13.0	8.0	10.0	8.5	11.0	7.0
14	6.0	6.0	6.5	6.0	---	---	13.5	8.5	11.5	8.0	10.0	7.0
15	6.5	6.0	6.0	6.0	---	---	11.0	9.0	12.0	8.0	10.5	7.0
16	6.5	6.0	6.0	5.5	---	---	11.5	8.0	13.0	8.5	11.0	7.0
17	6.5	6.5	6.0	5.5	---	---	12.0	9.0	---	---	10.5	7.0
18	6.5	6.5	6.0	6.0	---	---	14.5	9.5	---	---	11.0	7.0
19	6.5	6.0	6.5	6.0	---	---	14.5	10.0	---	---	11.0	7.5
20	6.5	6.5	6.5	6.5	---	---	14.5	9.5	---	---	10.5	7.5
21	6.5	6.0	6.5	5.5	11.0	---	14.5	10.0	---	---	11.0	7.5
22	6.5	6.5	6.5	6.0	11.0	8.5	14.0	9.5	---	---	11.0	7.5
23	6.5	6.5	6.5	6.5	11.0	9.0	14.0	9.5	---	---	10.5	7.5
24	6.5	6.5	6.5	6.5	11.5	8.5	14.5	9.5	---	---	10.5	7.0
25	6.5	6.5	7.0	6.5	10.0	8.5	14.5	9.5	---	---	10.5	7.5
26	6.5	6.0	7.0	7.0	9.5	7.0	14.0	10.0	---	---	10.0	7.5
27	6.5	6.0	7.0	7.0	11.5	8.5	14.0	10.0	---	---	9.0	6.0
28	6.5	6.5	7.0	7.0	11.5	8.0	15.0	10.0	---	---	9.0	6.0
29	6.5	6.5	7.0	7.0	13.0	9.0	15.0	10.5	13.5	10.5	9.5	6.5
30	6.5	6.5	7.0	6.5	13.5	9.5	15.0	10.5	13.0	9.0	9.0	6.5
31	---	---	6.5	6.5	---	---	15.0	10.5	12.5	9.5	---	---
MONTH	6.5	5.0	7.0	5.5	---	---	15.0	7.0	---	---	12.5	6.0

14159500 SOUTH FORK MCKENZIE RIVER NEAR RAINBOW, OREG.

LOCATION.--Lat 44°08'10", long 122°14'50", in NE¼ sec.31, T.16 S., R.5 W., Lane County, temperature recorder at gaging station on right bank, 0.2 mi (0.3 km) upstream from Cougar Creek, 0.6 mi (1.0 km) downstream from Cougar Dam, 2.0 mi (3.2 km) south of Rainbow, and at mile 3.9 (6.3 km).

DRAINAGE AREA.--208 mi² (539 km²).

PERIOD OF RECORD.--Water temperatures: July 1955 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 13.5°C Oct. 9-28; minimum, 2.0°C during period Jan. 3-18.

Period of record:

Water temperatures: Maximum, 20.0°C July 28, 1958; minimum, 0.5°C Jan. 20-23, 1962.

REMARKS.--Recorder stopped Jan. 3-18; range in temperature, 2.0°C to 5.0°C.

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	12.0	11.0	10.5	5.5	5.5	5.0	5.0	4.0	4.0	5.0	5.0
2	13.0	12.0	10.5	10.5	5.5	5.5	5.0	5.0	4.0	4.0	5.0	5.0
3	13.0	13.0	10.5	10.5	5.5	5.5	---	---	4.0	4.0	5.0	5.0
4	13.0	13.0	10.5	10.0	5.5	5.5	---	---	4.0	4.0	5.0	5.0
5	13.0	13.0	10.0	9.5	5.5	5.5	---	---	4.0	4.0	5.0	5.0
6	13.0	13.0	9.5	9.5	5.5	5.5	---	---	4.0	4.0	5.0	5.0
7	13.0	13.0	9.5	9.5	5.5	5.5	---	---	4.0	4.0	5.0	5.0
8	13.0	13.0	9.5	9.0	5.5	5.5	---	---	4.5	4.0	5.0	4.5
9	13.5	13.0	9.0	8.0	5.5	5.5	---	---	4.5	4.5	4.5	4.5
10	13.5	13.5	8.0	8.0	5.5	5.5	---	---	4.5	4.5	4.5	4.5
11	13.5	13.5	8.0	8.0	5.5	5.5	---	---	4.5	4.5	4.5	4.5
12	13.5	13.5	8.0	8.0	5.5	5.0	---	---	4.5	4.5	4.5	4.5
13	13.5	13.5	8.0	7.0	5.0	5.0	---	---	4.5	4.5	4.5	4.5
14	13.5	13.5	7.0	7.0	5.0	5.0	---	---	4.5	4.5	4.5	4.5
15	13.5	13.5	7.0	7.0	5.0	5.0	---	---	4.5	4.5	4.5	4.5
16	13.5	13.5	7.0	7.0	5.0	5.0	---	---	4.5	4.5	4.5	4.5
17	13.5	13.5	7.0	7.0	5.0	5.0	---	---	4.5	4.5	4.5	4.5
18	13.5	13.5	7.0	6.5	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
19	13.5	13.5	6.5	6.5	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
20	13.5	13.5	6.5	6.5	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
21	13.5	13.5	6.5	6.5	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
22	13.5	13.5	6.5	6.0	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
23	13.5	13.5	6.0	6.0	5.0	5.0	3.5	3.5	4.5	4.5	4.5	4.5
24	13.5	13.5	6.0	6.0	5.0	5.0	3.5	3.5	5.0	4.5	4.5	4.5
25	13.5	13.5	6.0	6.0	5.0	5.0	3.5	3.5	5.0	5.0	4.5	4.5
26	13.5	13.5	6.0	6.0	5.0	5.0	3.5	3.5	5.0	5.0	4.5	4.5
27	13.5	13.5	6.0	6.0	5.0	5.0	4.0	3.5	5.0	5.0	4.5	4.5
28	13.5	12.0	5.5	5.5	5.0	5.0	4.0	4.0	5.0	5.0	4.5	4.5
29	12.0	11.5	5.5	5.5	5.0	5.0	4.0	4.0	---	---	4.5	4.5
30	11.5	11.5	5.5	5.5	5.0	5.0	4.0	4.0	---	---	4.5	4.5
31	11.5	11.0	---	---	5.0	5.0	4.0	4.0	---	---	4.5	4.5
MONTH	13.5	11.0	11.0	5.5	5.5	5.0	---	---	5.0	4.0	5.0	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	4.5	5.5	5.5	6.0	6.0	5.5	5.0	8.0	6.5	9.5	9.0
2	4.5	4.5	5.5	5.5	6.0	6.0	6.0	5.5	8.0	6.5	9.5	9.0
3	4.5	4.5	5.5	5.5	6.0	6.0	6.0	6.0	8.5	6.5	9.5	9.5
4	4.5	4.5	5.5	5.5	6.0	6.0	6.0	6.0	8.5	8.0	9.5	9.5
5	4.5	4.5	5.5	5.5	6.0	6.0	6.5	5.5	9.0	8.0	9.5	9.0
6	4.5	4.5	5.5	5.5	6.0	6.0	6.5	5.5	9.0	8.5	9.5	9.5
7	4.5	4.5	5.5	5.5	6.5	6.0	6.5	6.0	9.0	8.5	9.5	9.5
8	4.5	4.5	5.5	5.5	6.5	6.5	7.0	5.5	9.0	8.0	10.0	9.5
9	4.5	4.5	6.0	5.5	6.5	6.5	7.0	6.5	9.0	8.0	10.0	9.5
10	4.5	4.5	6.0	6.0	6.5	6.5	6.5	6.5	9.0	8.5	9.5	9.5
11	4.5	4.5	6.5	6.0	6.5	6.0	6.5	6.5	9.0	8.5	10.0	9.5
12	5.0	4.5	6.5	6.5	6.0	6.0	6.5	6.5	9.0	8.0	10.0	10.0
13	5.0	5.0	6.5	6.5	6.0	6.0	7.0	6.5	9.0	8.5	10.0	9.0
14	5.0	5.0	6.5	6.5	6.0	6.0	7.0	6.5	9.0	9.0	10.0	9.5
15	5.0	5.0	6.5	6.5	6.0	6.0	8.0	7.0	9.0	8.5	10.0	10.0
16	5.0	5.0	6.5	6.5	6.0	6.0	8.0	7.0	9.0	8.5	10.0	10.0
17	5.0	5.0	6.5	6.5	6.0	6.0	8.0	6.5	8.5	8.5	10.0	10.0
18	5.0	5.0	6.5	6.5	6.0	6.0	8.0	6.5	9.0	8.5	10.0	10.0
19	5.0	5.0	6.5	6.5	6.0	6.0	8.0	6.5	9.0	9.0	10.0	10.0
20	5.0	5.0	6.5	6.5	6.0	6.0	8.0	7.0	9.0	9.0	10.0	10.0
21	5.0	5.0	6.5	6.5	6.0	6.0	8.5	7.0	9.0	9.0	10.0	10.0
22	5.0	5.0	6.5	6.0	6.0	5.5	8.0	7.0	9.0	8.5	10.0	10.0
23	5.0	5.0	6.5	6.0	6.0	6.0	8.0	7.0	9.0	9.0	10.5	10.0
24	5.0	5.0	6.0	6.0	6.0	5.5	8.0	7.0	9.0	9.0	10.5	10.5
25	5.0	5.0	6.0	6.0	6.0	6.0	8.0	7.0	9.0	9.0	10.5	10.5
26	6.0	5.0	6.0	6.0	6.0	5.5	8.0	7.0	9.0	9.0	10.5	10.5
27	6.0	5.5	6.0	6.0	5.5	5.5	8.0	7.0	10.0	9.0	11.0	10.5
28	5.5	5.5	6.0	5.5	5.5	5.0	8.0	7.0	10.0	9.0	11.0	11.0
29	5.5	5.5	5.5	5.5	5.5	5.0	8.5	7.0	10.0	8.5	11.0	11.0
30	5.5	5.5	5.5	5.5	5.5	5.0	8.0	7.0	9.5	9.0	11.0	11.0
31	---	---	6.0	5.5	---	---	8.0	7.0	9.5	8.5	---	---
MONTH	6.0	4.5	6.5	5.5	6.5	5.0	8.5	5.0	10.0	6.5	11.0	9.0

WILLAMETTE RIVER BASIN

14161100 BLUE RIVER BELOW TIDBITS CREEK, NEAR BLUE RIVER, OREG.

LOCATION.--Lat 44°13'05", long 122°15'50", in SE 1/4 sec. 36, T.15 S., R.4 E., Lane County, temperature recorder at gaging station on left bank, 0.2 mi (0.3 km) downstream from Tidbits Creek, 5.5 mi (8.8 km) northeast of town of Blue River, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--Water temperatures: September 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 23.0°C Aug. 3, 4; minimum, freezing point Jan. 1-13.

Period of record:

Water temperatures: Maximum, 23.0°C Aug. 3, 4, 1974; minimum, freezing point on several days in 1969, 1971, Jan. 28-30, Feb. 1, 2, Dec. 5-12, 16, 1972, Jan. 8, 9, 1973, Jan. 1-13, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.0	8.0	7.0	8.5	7.5	3.0	0.0	5.0	4.5	---	---
2	12.0	10.0	8.5	8.0	8.0	7.5	0.0	0.0	5.0	4.0	---	---
3	12.0	9.5	8.5	7.5	8.0	7.0	0.0	0.0	5.0	3.5	---	---
4	12.0	10.0	7.5	6.0	8.0	7.0	0.0	0.0	4.5	3.0	---	---
5	12.0	10.0	7.5	5.0	8.0	7.5	0.0	0.0	4.0	3.0	---	---
6	13.0	11.5	8.5	6.5	8.0	7.5	0.0	0.0	3.5	2.0	---	---
7	12.5	11.0	8.5	8.0	8.5	7.5	0.0	0.0	3.5	2.5	---	---
8	12.0	10.0	9.5	8.0	8.0	7.5	0.0	0.0	4.0	2.5	---	---
9	11.5	9.5	9.5	9.0	8.0	7.5	0.0	0.0	4.0	2.5	---	---
10	11.5	10.0	9.0	9.0	8.0	7.0	0.0	0.0	4.0	2.5	---	---
11	12.5	11.0	10.0	9.0	8.0	7.5	0.0	0.0	4.0	2.5	---	---
12	13.0	11.5	9.5	8.5	7.5	6.5	0.0	0.0	4.0	3.0	---	---
13	13.5	12.0	8.5	8.0	---	6.0	2.5	0.0	4.0	2.5	---	---
14	13.0	11.5	8.5	7.5	---	---	4.5	3.5	3.5	2.0	---	---
15	12.5	11.0	9.0	8.5	---	---	5.0	4.5	3.5	3.0	---	---
16	14.0	11.0	9.5	9.0	---	---	5.0	4.5	3.5	2.5	---	---
17	13.5	11.5	10.0	8.0	5.5	---	5.0	4.5	4.0	2.5	---	---
18	13.5	12.0	8.0	7.5	5.5	4.5	5.5	4.5	2.5	1.0	8.0	6.5
19	12.5	11.5	8.0	7.0	5.5	4.5	5.0	4.0	3.0	2.5	8.0	6.0
20	13.5	12.5	7.5	6.5	5.5	5.0	4.5	3.5	3.5	3.0	7.5	5.0
21	13.0	12.0	7.0	6.0	5.5	5.0	3.5	2.5	3.0	2.0	7.5	5.0
22	13.5	12.0	7.5	6.0	5.5	4.5	3.5	1.0	2.5	1.0	7.0	4.5
23	12.5	11.5	7.0	6.0	5.5	4.5	4.0	1.5	3.0	1.5	7.0	5.0
24	11.5	11.0	8.0	6.5	5.5	4.5	4.5	3.5	3.0	1.5	7.0	4.5
25	11.5	10.5	7.5	6.5	5.0	4.0	4.5	4.0	3.5	2.5	7.0	5.0
26	11.5	9.5	7.5	6.5	5.0	4.0	4.5	3.5	2.5	1.0	7.0	5.0
27	10.5	9.5	7.5	6.5	5.5	4.5	3.5	2.5	2.5	1.5	6.0	5.5
28	10.5	9.5	8.0	7.0	5.5	4.5	4.0	3.5	2.0	1.0	5.5	5.0
29	10.0	8.5	8.0	7.0	5.5	4.5	4.5	4.0	---	---	6.5	5.0
30	9.5	8.5	8.0	7.5	5.0	4.5	5.0	4.0	---	---	5.5	4.5
31	9.0	7.5	---	---	4.5	3.0	5.0	4.0	---	---	5.0	4.5
MONTH	14.0	7.5	10.0	5.0	8.5	3.0	5.5	0.0	5.0	1.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	---	---	---	---	14.0	12.0	22.0	17.5	---	---
2	5.0	4.0	---	---	---	---	15.5	10.5	22.5	18.0	---	---
3	---	4.0	---	---	---	---	16.5	11.0	23.0	18.5	---	---
4	6.0	4.5	---	---	---	---	16.0	12.0	23.0	18.5	---	---
5	7.0	5.5	---	---	---	---	14.5	13.0	22.0	19.0	---	---
6	8.0	6.5	---	---	---	---	15.0	11.5	21.5	17.5	---	---
7	8.0	6.0	---	---	---	---	15.5	11.5	20.0	15.5	---	---
8	8.0	6.5	---	---	---	---	15.0	13.0	20.0	15.0	---	---
9	8.0	6.5	---	---	---	---	13.5	12.0	20.5	15.5	---	---
10	9.5	8.0	---	---	---	---	12.5	11.5	21.0	16.0	---	---
11	---	---	---	---	---	---	14.5	11.0	20.5	16.0	---	---
12	---	---	---	---	---	---	16.0	10.5	19.5	15.5	17.0	---
13	---	---	---	---	---	---	17.0	11.5	17.0	14.5	15.5	11.5
14	---	---	---	---	---	---	18.0	13.0	18.0	13.5	15.5	11.5
15	---	---	---	---	---	---	16.0	13.5	18.5	14.0	15.5	12.0
16	---	---	---	---	---	---	15.5	11.5	19.5	14.5	15.5	12.0
17	---	---	---	---	---	---	15.5	13.5	19.5	15.0	15.5	12.0
18	---	---	---	---	---	---	19.0	14.0	18.0	16.0	15.5	12.5
19	---	---	---	---	---	---	20.0	15.5	15.5	14.5	16.0	13.0
20	---	---	---	---	14.0	---	19.5	15.0	18.0	14.0	16.0	13.0
21	---	---	---	---	15.0	9.0	20.0	15.0	18.0	13.5	16.0	13.0
22	---	---	---	---	14.5	10.0	19.5	15.5	18.5	15.0	16.0	13.0
23	---	---	---	---	15.0	10.5	20.0	16.0	19.5	16.0	15.5	13.0
24	---	---	---	---	15.0	9.5	20.0	15.0	19.5	15.0	15.0	12.5
25	---	---	10.5	6.5	11.5	9.5	20.0	15.0	20.5	15.0	15.0	12.5
26	---	---	10.5	6.5	11.5	8.5	20.0	16.0	20.0	16.0	14.5	12.5
27	---	---	10.5	6.0	14.5	9.5	21.0	16.5	20.0	16.0	13.5	11.0
28	---	---	9.5	5.0	15.5	9.5	21.5	17.0	21.0	17.0	13.0	10.5
29	---	---	7.5	6.0	17.5	11.5	22.5	18.5	20.5	17.0	13.0	10.0
30	---	---	10.0	5.0	18.0	12.5	22.0	18.0	20.0	17.0	12.5	10.0
31	---	---	---	6.0	---	---	22.5	18.0	20.0	17.0	---	---
MONTH	---	---	---	---	---	---	22.5	10.5	23.0	13.5	---	---

14161500 LOOKOUT CREEK NEAR BLUE RIVER, OREG.

LOCATION.--Lat 44°12'35", long 122°15'20", in T.15 or 16 S., R.5 E. (unsurveyed), Lane County, temperature recorder at gaging station on left bank, 6.0 mi (9.7 km) northeast of town of Blue River, and at mile 0.5 (0.8 km).

DRAINAGE AREA.--24.1 mi² (62.4 km²).

PERIOD OF RECORD.--Water temperatures: August 1950 to September 1955, September 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 20.0°C Aug. 3, 4; minimum recorded, 4.0°C Jan. 10-18, Feb. 18-26.

Period of record:

Water temperatures: Maximum, 21.5°C July 28, 1968; minimum, freezing point Jan. 31, Feb. 1, 1969.

REMARKS.--Recorder stopped Feb. 27 to Apr. 2, Apr. 10 to May 23; range in temperature, 4.0°C to 4.5°C and 4.5°C to 8.5°C, respectively.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.5	6.5	6.5	5.0	5.0	4.5	4.5	5.0	4.5	---	---
2	10.5	9.0	6.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5	---	---
3	9.5	8.5	5.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5	---	---
4	9.5	8.5	5.5	5.5	5.0	5.0	4.5	4.5	5.0	5.0	---	---
5	9.5	9.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	5.0	---	---
6	9.5	9.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	5.0	---	---
7	9.5	9.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	5.0	---	---
8	9.5	8.5	5.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5	---	---
9	9.0	8.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5	---	---
10	8.0	8.0	5.5	5.5	5.0	5.0	4.5	4.0	4.5	4.5	---	---
11	8.5	8.0	5.5	5.5	5.0	5.0	4.0	4.0	4.5	4.5	---	---
12	9.0	8.5	5.5	5.5	5.0	4.5	4.0	4.0	4.5	4.5	---	---
13	10.0	9.0	5.5	5.5	5.0	4.5	4.0	4.0	4.5	4.5	---	---
14	10.0	9.0	5.5	5.5	4.5	4.5	4.0	4.0	4.5	4.5	---	---
15	9.0	8.5	5.5	5.5	4.5	4.5	4.0	4.0	4.5	4.5	---	---
16	9.0	8.5	5.5	5.5	4.5	4.5	4.0	4.0	4.5	4.5	---	---
17	9.0	8.5	5.5	5.5	4.5	4.5	4.0	4.0	4.5	4.5	---	---
18	9.0	8.5	5.5	5.5	4.5	4.5	4.0	4.0	4.5	4.0	---	---
19	9.0	9.0	5.5	5.5	4.5	4.5	4.5	4.5	4.0	4.0	---	---
20	9.0	9.0	5.5	5.5	4.5	4.5	4.5	4.5	4.0	4.0	---	---
21	9.0	9.0	5.5	5.5	4.5	4.5	4.5	4.5	4.0	4.0	---	---
22	9.0	9.0	5.5	5.0	4.5	4.5	4.5	4.5	4.0	4.0	---	---
23	9.0	9.0	5.0	5.0	4.5	4.5	4.5	4.5	4.0	4.0	---	---
24	9.0	8.5	5.0	5.0	4.5	4.5	4.5	4.5	4.0	4.0	---	---
25	8.5	7.0	5.0	5.0	4.5	4.5	4.5	4.5	4.0	4.0	---	---
26	7.0	6.0	5.0	5.0	4.5	4.5	4.5	4.5	4.0	4.0	---	---
27	6.5	6.0	5.0	5.0	4.5	4.5	4.5	4.5	---	---	---	---
28	6.5	6.0	5.0	5.0	4.5	4.5	4.5	4.5	---	---	---	---
29	6.5	6.5	5.0	5.0	4.5	4.5	4.5	4.5	---	---	---	---
30	6.5	6.5	5.0	5.0	4.5	4.5	4.5	4.5	---	---	---	---
31	6.5	6.5	---	---	4.5	4.5	4.5	4.5	---	---	---	---
MONTH	11.5	6.0	6.5	5.0	5.0	4.5	4.5	4.0	5.0	4.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	10.0	7.0	13.5	11.0	19.5	15.0	17.0	15.5
2	---	---	---	---	9.5	7.0	15.0	10.0	19.5	15.5	16.5	14.5
3	5.0	4.0	---	---	9.0	7.0	15.5	10.5	20.0	16.0	16.5	14.5
4	5.0	5.0	---	---	8.0	7.0	15.0	11.0	20.0	16.0	16.0	14.5
5	5.0	5.0	---	---	7.0	7.0	13.5	11.5	19.0	16.5	15.5	13.5
6	5.0	5.0	---	---	7.0	7.0	14.5	11.0	18.5	15.5	15.5	13.5
7	6.0	5.0	---	---	7.0	6.5	14.0	11.0	17.0	14.0	15.5	13.0
8	5.5	5.5	---	---	9.5	6.5	13.0	11.0	18.0	14.0	15.5	14.0
9	5.5	5.5	---	---	10.5	8.0	11.5	10.5	18.5	14.5	15.0	14.5
10	---	---	---	---	11.0	8.5	11.0	10.5	19.0	15.0	14.5	13.0
11	---	---	---	---	11.0	8.5	13.0	10.0	18.0	15.0	14.0	11.5
12	---	---	---	---	11.0	8.5	15.0	10.0	16.5	14.5	14.0	11.5
13	---	---	---	---	11.5	8.5	16.0	10.5	15.5	13.5	14.0	11.0
14	---	---	---	---	11.5	8.5	16.5	11.5	15.5	13.0	13.5	10.5
15	---	---	---	---	10.5	8.5	14.5	12.0	16.0	13.5	13.5	11.0
16	---	---	---	---	12.0	9.0	14.0	10.5	16.5	13.5	13.5	11.0
17	---	---	---	---	13.5	9.0	13.5	11.5	17.0	14.0	13.5	11.0
18	---	---	---	---	13.0	10.0	16.0	12.0	16.0	14.5	14.0	11.5
19	---	---	---	---	11.0	9.5	18.0	13.5	14.5	13.5	14.0	11.5
20	---	---	---	---	13.0	9.0	18.0	13.0	15.5	13.0	14.0	11.5
21	---	---	---	---	13.5	9.0	18.5	13.5	15.5	12.0	14.0	11.5
22	---	---	---	---	13.5	10.0	17.0	13.5	16.5	14.0	14.0	11.5
23	---	---	---	---	13.5	10.0	18.0	14.0	16.5	14.5	14.0	11.5
24	---	---	7.0	6.5	13.5	9.0	18.0	13.0	16.5	14.0	13.5	11.0
25	---	---	9.5	7.0	11.0	9.0	18.0	13.0	17.0	14.0	13.5	11.5
26	---	---	9.5	8.0	10.5	8.5	17.0	14.0	18.0	14.5	13.0	11.5
27	---	---	9.0	7.0	13.5	9.0	18.0	14.0	18.0	15.0	11.5	9.5
28	---	---	8.5	6.5	14.5	9.0	19.0	14.5	18.5	15.5	11.0	9.5
29	---	---	7.0	6.5	15.5	10.0	19.5	15.0	18.0	15.5	11.0	9.5
30	---	---	9.0	6.0	16.0	11.0	19.5	15.0	18.0	15.5	11.0	9.5
31	---	---	9.5	6.5	---	---	19.5	15.0	18.0	15.5	---	---
MONTH	---	---	---	---	16.0	6.5	19.5	10.0	20.0	12.0	17.0	9.5

WILLAMETTE RIVER BASIN

14162200 BLUE RIVER AT BLUE RIVER, OREG.

LOCATION.--Lat 44°09'45", long 122°19'55", in NW¼SE¼ sec.21, T.16 S., R.4 E. (unsurveyed), Lane County, temperature recorder at gaging station on right bank, 0.3 mi (0.5 km) upstream from Simmonds Creek, 0.7 mi (1.1 km) north of town of Blue River, and at mile 0.9 (1.4 km).

DRAINAGE AREA.--87.7 mi² (227.1 km²).

PERIOD OF RECORD.--Water temperatures: August 1966 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 18.5°C Sept. 22-25; minimum, freezing point Jan. 5-9.

Period of record:

Water temperatures: Maximum, 26.0°C July 6, 1968; minimum, freezing point Jan. 5-9, 1974.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	15.5	12.5	11.0	4.5	4.5	5.0	4.0	5.0	4.5	5.0	4.5
2	17.0	15.5	11.0	10.5	4.5	4.5	4.0	2.5	5.0	5.0	5.0	4.5
3	17.0	15.5	10.5	9.5	4.5	4.5	2.5	1.0	5.0	5.0	5.0	4.5
4	17.0	15.5	10.0	9.5	4.5	4.5	1.0	0.5	5.0	5.0	4.5	4.5
5	16.0	15.0	9.5	9.0	4.5	4.5	0.5	0.0	5.5	5.0	4.5	4.5
6	15.5	15.5	9.0	8.0	5.0	4.0	0.0	0.0	5.5	5.0	4.5	4.5
7	16.0	15.5	8.0	8.0	5.5	4.5	0.5	0.0	5.5	5.0	5.0	4.5
8	16.0	15.5	8.5	7.5	5.0	5.0	0.5	0.0	5.5	5.0	5.0	4.5
9	16.0	15.0	7.5	7.0	5.0	5.0	0.5	0.0	5.5	5.0	5.0	4.5
10	16.0	15.0	7.5	6.5	5.0	4.5	0.5	0.5	5.5	5.0	4.5	4.5
11	16.0	15.0	6.5	5.5	5.0	4.5	0.5	0.5	5.5	4.5	4.5	4.5
12	15.5	15.0	5.5	5.0	5.5	4.5	0.5	0.5	5.0	5.0	4.5	4.5
13	16.0	15.0	5.0	5.0	5.0	4.0	1.5	0.5	5.0	4.5	4.5	4.5
14	16.0	15.0	5.5	5.0	4.5	4.5	3.0	2.0	5.0	4.5	5.0	4.5
15	16.0	15.0	5.0	5.0	5.0	4.5	5.0	3.0	5.0	4.5	5.0	4.5
16	16.0	15.0	5.0	4.5	5.5	5.0	5.5	5.0	5.0	4.5	4.5	4.5
17	16.0	15.0	5.0	5.0	5.5	5.0	5.0	4.5	5.0	4.5	5.0	4.5
18	15.5	15.0	5.0	5.0	5.5	5.5	5.0	4.5	5.0	4.5	5.0	4.5
19	15.5	15.0	5.0	5.0	5.5	5.0	5.0	5.0	5.0	4.5	5.0	4.5
20	15.5	15.0	5.0	4.5	5.0	5.0	5.0	5.0	5.0	4.5	5.0	4.5
21	15.5	15.0	4.5	4.5	5.5	5.0	5.0	5.0	4.5	4.5	5.0	4.5
22	15.5	15.0	4.5	4.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5
23	14.5	14.0	4.0	4.0	5.0	5.0	5.0	4.5	4.5	4.5	5.0	4.5
24	14.0	14.0	4.0	3.5	5.5	5.0	4.5	4.5	4.5	4.5	5.0	5.0
25	14.5	13.5	4.0	3.5	5.5	5.0	4.5	4.5	5.0	4.5	5.0	5.0
26	14.0	13.5	4.0	4.0	5.0	4.5	4.5	4.5	4.5	4.0	5.0	5.0
27	13.5	13.5	4.0	4.0	5.0	4.5	4.5	4.5	5.0	4.5	5.0	5.0
28	13.5	13.0	4.5	4.0	5.5	5.0	4.5	4.5	5.0	4.5	5.0	5.0
29	13.5	13.0	4.5	4.0	5.5	5.0	4.5	4.5	---	---	5.5	5.0
30	12.5	12.5	4.5	4.0	5.5	5.0	4.5	4.5	---	---	5.5	5.0
31	12.5	12.0	---	---	5.0	5.0	4.5	4.5	---	---	5.5	5.0
MONTH	17.0	12.0	12.5	3.5	5.5	4.0	5.5	0.0	5.5	4.0	5.5	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.5	6.5	6.0	7.5	7.5	9.0	8.5	9.5	9.0	13.5	13.0
2	6.0	5.5	6.5	6.0	7.5	7.5	9.5	9.0	9.5	9.5	14.0	13.5
3	6.0	5.5	6.5	6.0	7.5	7.5	9.5	9.0	9.5	9.5	14.0	13.5
4	6.0	5.5	6.5	6.0	8.0	7.5	9.5	9.0	10.0	9.5	14.5	14.0
5	6.5	5.0	6.5	6.5	8.0	7.5	9.5	9.0	10.0	9.5	14.5	14.0
6	6.0	6.0	6.5	6.5	7.5	7.5	9.5	9.0	10.0	9.5	15.5	14.0
7	6.0	5.0	6.5	6.5	8.0	7.5	9.5	9.0	10.0	9.5	15.0	14.0
8	6.5	5.0	6.5	6.5	8.0	7.5	9.5	9.0	10.0	10.0	15.0	14.0
9	6.0	5.0	6.5	6.0	8.0	8.0	9.5	9.0	10.0	10.0	14.5	14.0
10	6.5	6.0	6.5	6.5	8.0	8.0	9.5	9.0	10.0	10.0	15.0	14.0
11	6.0	6.0	6.5	6.5	8.0	8.0	10.0	9.5	10.5	10.0	15.5	14.0
12	6.0	6.0	6.5	6.5	8.0	8.0	10.0	9.5	10.5	10.0	15.5	14.0
13	6.0	6.0	7.0	6.5	8.0	8.0	10.0	9.5	10.5	10.0	16.0	14.5
14	6.0	6.0	7.0	6.5	8.5	8.0	10.5	9.5	11.0	10.5	16.5	14.5
15	6.0	5.5	7.0	6.5	8.5	8.0	10.0	9.5	11.0	10.5	16.5	15.0
16	6.0	6.0	7.0	6.5	8.5	8.0	10.0	9.5	11.0	10.5	16.5	15.0
17	6.0	6.0	7.0	6.5	8.5	8.0	11.0	9.5	11.0	11.0	16.5	15.5
18	6.0	6.0	7.0	6.5	8.5	8.0	12.5	9.5	11.5	11.0	17.0	15.5
19	6.5	6.0	7.0	6.5	8.5	8.5	12.5	9.5	11.5	11.0	17.5	15.5
20	6.0	6.0	7.0	6.5	8.5	8.5	10.0	9.5	11.5	11.5	18.0	16.0
21	6.5	6.0	7.0	7.0	8.5	8.5	10.0	9.5	12.0	11.5	18.0	16.0
22	6.5	6.0	7.0	7.0	8.5	8.5	10.0	9.5	12.0	11.5	18.5	16.5
23	6.5	6.0	7.0	7.0	9.0	8.5	10.0	9.5	12.5	12.0	18.5	16.5
24	6.5	6.0	7.0	7.0	9.0	8.5	9.5	9.5	13.0	12.0	18.5	17.0
25	6.5	6.0	7.0	7.0	8.5	8.5	9.5	9.5	13.0	12.0	18.5	17.0
26	6.5	6.0	7.0	7.0	8.5	8.5	9.5	9.5	13.0	12.0	---	---
27	6.5	6.0	7.0	7.0	9.0	8.5	9.5	9.5	13.0	12.5	---	---
28	6.5	6.0	7.5	7.0	9.5	8.5	9.5	9.5	13.0	12.5	---	---
29	6.5	6.0	7.5	7.0	9.5	8.5	9.5	9.0	13.5	13.0	---	---
30	6.5	6.0	7.5	7.0	9.5	8.5	9.5	9.0	13.5	13.0	---	---
31	---	---	7.5	7.0	---	---	9.5	9.0	13.5	13.0	---	---
MONTH	6.5	5.0	7.5	6.0	9.5	7.5	12.5	8.5	13.5	9.0	18.5	13.0

14162500 MCKENZIE RIVER NEAR VIDA, OREG.

LOCATION.--Lat 44°07'30", long 122°28'10", in NE¼NE¼ sec.5, T.17 S., R.3 E., Lane County, temperature recorder at gaging station on right bank, 0.4 mi (0.6 km) downstream from Mason Creek, 5.4 mi (8.7 km) east of Vida, and at mile 47.7 (76.7 km).

DRAINAGE AREA.--930 mi² (2,409 km²) at cableway 0.4 mi (0.6 km) downstream, where all discharge measurements are made.

PERIOD OF RECORD.--Water temperatures: June 1961 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 13.0°C July 19-21, 23, 29-31, Aug. 2-4, 28, 29; minimum, 2.0°C Jan. 11.

Period of record:

Water temperatures: Maximum, 16.0°C July 6, 7, 28, 1968; minimum, 2.0°C Jan. 21-24, 1962, Dec. 8-11, 1972, Jan. 11, 1974.

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	9.0	8.5	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0
2	10.5	9.0	8.5	8.0	5.5	5.5	5.0	4.5	5.0	5.0	5.0	5.0
3	10.5	9.0	8.0	8.0	5.5	5.5	4.5	4.0	---	---	5.0	4.5
4	10.5	9.0	8.0	6.5	5.5	5.5	4.0	3.5	---	---	4.5	4.0
5	10.5	9.5	6.5	6.5	5.5	5.5	3.5	3.0	5.0	5.0	4.5	4.0
6	10.5	10.0	6.5	6.0	5.5	5.5	3.0	3.0	5.0	5.0	4.5	4.5
7	10.0	9.5	6.0	6.0	5.5	5.5	3.0	3.0	5.0	5.0	4.5	4.5
8	10.0	9.0	6.0	6.0	5.5	5.5	3.0	3.0	5.0	5.0	4.5	4.5
9	10.0	9.0	6.0	6.0	5.5	5.5	3.0	3.0	5.0	5.0	5.0	4.5
10	10.0	9.0	6.0	6.0	5.5	5.5	3.0	3.0	5.0	5.0	5.0	5.0
11	10.5	10.0	6.0	6.0	5.5	5.5	3.0	2.0	5.0	5.0	5.0	5.0
12	10.5	10.0	6.0	6.0	5.5	5.5	3.5	3.0	5.0	5.0	5.0	4.5
13	11.0	10.5	6.0	6.0	5.5	5.5	3.5	3.5	5.0	5.0	4.5	4.5
14	10.5	9.5	6.0	6.0	5.0	5.0	4.0	3.5	5.0	5.0	4.5	4.5
15	10.5	9.5	6.0	6.0	5.0	5.0	4.5	4.0	5.0	5.0	5.5	4.5
16	10.5	9.5	6.0	6.0	5.0	5.0	4.5	4.5	5.0	5.0	5.5	5.0
17	10.5	9.5	6.0	6.0	5.0	5.0	4.5	4.5	5.0	5.0	5.5	5.0
18	10.5	9.5	6.0	6.0	5.0	5.0	4.5	4.5	5.0	5.0	5.5	5.0
19	10.5	10.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.5	5.0
20	10.0	10.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.5	4.5
21	10.0	10.0	6.0	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.5	4.5
22	10.0	10.0	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.5	4.5
23	10.0	10.0	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	6.0	5.0
24	10.0	9.5	5.5	5.5	5.0	5.0	5.0	5.0	5.5	5.0	6.0	4.5
25	9.5	9.5	5.5	5.5	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5
26	9.5	9.0	5.5	5.5	5.0	5.0	5.0	5.0	5.5	5.0	5.5	5.0
27	9.5	9.0	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.5	5.5
28	9.5	9.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.5	5.5
29	9.5	9.5	5.5	5.5	5.5	5.0	5.0	5.0	---	---	---	---
30	9.5	9.0	5.5	5.5	5.5	5.5	5.0	5.0	---	---	---	---
31	9.5	9.0	---	---	5.5	5.5	5.0	5.0	---	---	---	---
MONTH	11.0	9.0	9.0	5.5	5.5	5.0	5.5	2.0	5.5	5.0	6.0	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.0	6.5	9.5	7.0	10.5	9.0	12.0	9.5	12.0	10.0
2	---	---	8.5	6.0	9.5	7.0	11.0	8.5	13.0	9.5	11.5	9.5
3	5.0	5.0	9.0	6.5	8.5	8.0	11.5	8.5	13.0	9.5	12.0	10.0
4	5.0	5.0	9.0	6.5	8.5	8.0	11.0	8.5	13.0	9.5	11.5	9.5
5	5.0	5.0	9.0	6.5	8.0	7.0	10.5	9.0	11.5	9.5	11.5	9.0
6	5.5	5.0	8.5	7.0	8.0	7.0	11.0	9.0	12.0	9.5	11.0	9.0
7	6.0	5.0	8.5	6.5	8.5	7.0	10.5	8.5	11.5	9.0	11.0	9.0
8	6.0	5.0	8.5	6.5	9.0	6.5	10.0	9.0	11.5	9.0	11.5	10.0
9	5.5	5.0	8.0	6.5	9.5	7.0	9.5	9.0	12.0	9.0	11.0	10.0
10	5.5	5.0	7.0	6.5	10.0	8.0	9.0	8.5	12.0	9.0	11.0	9.5
11	5.0	5.0	7.0	6.5	9.5	8.0	10.0	8.5	12.0	9.0	11.0	9.0
12	6.0	5.0	7.0	6.5	9.5	8.0	11.0	8.0	11.5	9.0	11.0	9.0
13	6.5	4.5	7.0	6.0	10.0	8.0	11.5	8.5	10.5	8.5	11.0	9.0
14	6.5	5.0	6.5	6.5	10.0	8.0	11.5	9.0	11.0	8.5	11.0	9.0
15	6.5	5.5	6.5	6.0	9.5	8.5	11.5	9.0	11.0	9.0	11.0	9.0
16	7.0	5.0	6.5	6.0	10.0	8.5	10.5	8.5	11.5	9.0	11.0	9.0
17	7.0	5.5	8.0	6.0	10.5	8.5	10.0	9.0	11.5	9.0	11.0	9.0
18	7.0	6.0	6.5	6.0	10.5	8.5	11.5	9.0	11.5	9.5	11.0	9.5
19	6.0	5.5	7.0	6.0	9.5	9.0	13.0	9.5	10.0	9.5	11.0	9.5
20	6.0	5.5	7.0	6.5	10.5	8.5	13.0	9.0	11.0	9.0	11.0	9.5
21	8.0	5.5	8.0	6.0	10.5	8.5	13.0	9.0	11.0	9.0	11.0	9.5
22	7.0	6.0	8.5	6.5	10.0	9.0	12.0	9.0	11.0	9.0	11.0	9.5
23	6.5	6.0	8.5	6.5	11.0	9.0	13.0	9.5	11.0	9.5	11.0	9.5
24	6.5	6.0	8.5	7.0	11.0	8.5	12.0	9.0	11.5	9.5	11.0	9.5
25	6.5	5.5	9.5	7.0	10.0	8.5	12.0	9.0	11.5	9.0	11.0	9.5
26	6.5	5.0	9.0	7.0	9.0	8.0	11.5	9.0	12.0	9.0	11.0	9.5
27	6.5	6.0	9.0	7.0	10.5	8.5	11.5	9.5	12.0	9.0	10.5	9.0
28	7.0	6.0	8.5	6.5	11.0	8.5	12.0	9.5	13.0	10.0	10.5	9.0
29	8.5	6.0	8.0	7.0	11.5	9.0	13.0	9.5	13.0	10.0	10.5	9.0
30	8.0	6.5	9.0	6.5	11.5	9.0	13.0	9.5	12.0	9.5	10.5	9.0
31	---	---	9.5	6.5	---	---	13.0	9.5	11.5	10.0	---	---
MONTH	8.5	4.5	9.5	6.0	11.5	6.5	13.0	8.0	13.0	8.5	12.0	9.0

14165500 MCKENZIE RIVER NEAR COBURG, OREG.

LOCATION.--Lat 44°06'45", long 123°02'45", in NE 1/4 sec. 9, T.17 S., R.3 W., Lane County, temperature recorder at gaging station on left bank, at downstream side of Armitage Bridge, 2.0 mi (3.2 km) southeast of Coburg, and at mile 7.1 (11.4 km).

DRAINAGE AREA.--1,337 mi² (3,463 km²).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 18.0°C July 30; minimum, 3.0°C Jan. 8-12.

Period of record:

Water temperatures: Maximum, 20.0°C July 8, 1968; minimum, 1.5°C Dec. 17, 18, 1964.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	11.0	9.5	8.0	8.0	7.0	5.5	6.0	6.0	6.5	6.5
2	12.0	11.0	9.5	9.0	8.0	8.0	5.5	5.0	6.0	6.0	6.5	6.5
3	12.0	10.5	9.0	8.5	8.0	8.0	5.5	4.5	6.0	6.0	6.5	6.5
4	12.0	10.5	9.0	8.5	8.0	8.0	4.5	4.5	6.0	6.0	6.5	6.5
5	12.0	11.0	8.5	7.0	8.0	8.0	4.5	3.5	6.0	5.5	6.5	6.5
6	12.0	11.5	7.0	7.0	8.0	8.0	3.5	3.5	5.5	5.5	6.5	6.5
7	12.0	11.0	8.0	7.0	8.0	7.0	3.5	3.5	5.5	5.5	6.5	6.5
8	11.5	10.5	8.0	8.0	8.0	7.0	3.5	3.0	5.5	5.5	6.5	6.0
9	11.5	10.5	8.5	8.0	8.0	7.0	3.0	3.0	6.0	5.5	6.5	6.0
10	11.5	10.5	9.0	8.5	7.0	7.0	3.0	3.0	6.0	5.5	6.5	6.5
11	12.0	11.0	9.0	9.0	7.0	7.0	3.0	3.0	6.5	6.0	7.0	6.5
12	12.0	11.5	9.0	9.0	7.0	7.0	4.0	3.0	6.5	6.5	7.0	6.5
13	13.5	12.0	9.0	9.0	7.0	7.0	4.5	4.0	6.5	6.5	6.5	6.5
14	13.5	12.0	9.0	9.0	7.0	7.0	5.5	4.5	8.0	6.5	6.5	6.5
15	13.0	11.0	9.0	9.0	7.0	7.0	6.0	5.5	8.0	7.0	8.0	6.5
16	12.0	11.0	9.0	9.0	7.0	7.0	6.0	6.0	8.0	7.0	8.0	8.0
17	12.0	11.0	9.0	9.0	7.0	7.0	6.0	6.0	8.0	7.0	8.0	8.0
18	12.0	11.0	9.0	8.0	7.0	7.0	6.0	6.0	7.0	6.5	8.0	6.5
19	12.0	11.5	8.0	8.0	7.0	7.0	6.0	6.0	6.5	6.5	8.0	7.0
20	12.0	11.5	8.0	8.0	7.0	7.0	6.0	6.0	6.5	6.5	8.0	7.0
21	12.0	12.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.5	8.0	7.0
22	12.0	11.5	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.0	8.0	7.0
23	11.5	11.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.0	8.5	7.0
24	11.0	11.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.0	8.5	8.0
25	11.0	10.5	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.5	8.5	8.0
26	11.0	10.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.0	8.5	8.0
27	11.0	10.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.0	8.5	8.0
28	11.0	11.0	8.0	8.0	7.0	7.0	6.0	5.5	6.5	6.5	8.5	8.0
29	11.0	10.5	8.0	8.0	7.0	7.0	6.0	5.5	---	---	8.0	8.0
30	11.0	10.5	8.0	8.0	7.0	7.0	6.0	6.0	---	---	8.0	8.0
31	11.0	11.0	---	---	7.0	---	6.0	6.0	---	---	8.0	7.0
MONTH	14.0	10.0	11.0	7.0	8.0	7.0	7.0	3.0	8.0	5.5	8.5	6.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	10.0	9.5	11.0	10.0	13.5	11.0	16.5	14.0	15.5	13.0
2	8.0	7.0	10.0	8.5	11.0	10.0	13.0	10.0	16.5	14.0	15.5	13.5
3	8.0	7.0	10.5	9.5	10.5	10.0	14.5	11.0	17.0	14.0	14.5	13.5
4	7.0	7.0	11.5	10.0	10.0	9.0	14.5	12.0	16.5	14.5	14.5	13.0
5	7.0	7.0	11.5	10.5	9.0	8.5	13.5	11.5	16.0	14.0	14.5	11.5
6	7.0	7.0	11.0	10.5	9.0	8.5	13.5	10.5	15.5	13.5	14.5	12.0
7	8.5	7.0	10.5	10.5	9.5	9.0	13.5	11.0	15.5	13.0	14.5	12.0
8	8.5	8.0	10.5	10.0	10.0	9.0	12.0	11.5	15.5	12.0	14.5	13.0
9	8.0	8.0	10.5	8.5	11.0	10.0	12.0	10.5	15.5	12.0	14.5	13.0
10	8.0	7.0	9.0	8.5	11.5	10.5	11.0	10.0	16.0	13.0	13.5	11.5
11	8.0	7.0	9.0	8.5	11.5	11.0	13.0	10.5	15.5	13.5	14.0	11.5
12	8.0	7.0	9.0	9.0	11.5	11.0	14.0	11.0	14.5	13.0	13.5	11.0
13	8.0	7.0	9.0	8.5	11.5	10.5	15.0	11.0	14.0	11.5	13.5	11.0
14	8.5	8.0	8.5	8.5	11.0	10.0	15.5	12.0	13.5	11.0	14.0	11.0
15	8.5	8.5	8.5	7.0	10.0	9.5	15.0	13.0	14.5	11.5	13.5	11.0
16	9.5	8.0	8.0	8.0	11.0	9.5	14.0	12.0	14.5	12.0	14.0	11.5
17	9.5	9.0	8.0	8.0	11.5	11.0	13.5	12.0	15.0	12.0	14.0	11.5
18	9.5	9.0	8.0	8.0	12.0	11.0	13.5	11.5	14.5	13.0	14.0	11.5
19	8.5	8.5	9.0	8.0	11.5	10.0	15.5	12.0	13.5	11.5	14.0	11.5
20	9.5	8.5	10.5	8.5	11.5	10.0	16.5	13.5	13.5	11.0	14.0	11.5
21	9.5	8.5	10.5	9.5	13.0	11.0	16.5	13.5	14.5	12.0	14.0	11.5
22	9.5	9.5	10.0	9.5	11.5	10.5	16.0	13.5	14.5	12.0	14.0	12.0
23	9.5	8.5	10.0	9.0	13.0	10.5	16.0	13.5	15.5	13.0	14.0	11.5
24	9.5	8.5	10.0	9.5	13.0	11.0	16.0	13.0	15.5	13.0	13.5	11.5
25	9.5	8.5	11.0	9.5	11.5	10.5	16.0	13.5	16.0	13.0	13.5	11.5
26	9.0	8.0	11.0	10.5	10.0	9.5	16.0	13.5	16.0	13.5	13.0	11.0
27	9.0	8.5	10.5	10.0	11.0	10.0	16.0	13.0	16.0	13.5	12.0	10.5
28	9.5	8.5	10.0	9.0	14.0	10.5	16.5	13.5	16.0	13.5	12.0	10.0
29	10.5	8.5	9.0	8.0	15.0	11.5	17.0	14.0	16.0	14.5	12.0	10.5
30	10.5	9.5	10.0	8.0	15.5	13.0	18.0	14.5	15.0	14.0	12.0	10.5
31	---	---	10.5	9.5	---	---	17.0	14.0	14.0	13.0	---	---
MONTH	10.5	7.0	11.5	7.0	15.5	8.5	18.0	10.0	17.0	11.0	15.5	10.0

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.

LOCATION.--Lat 44°16'05", long 123°10'20", in SW¼NE¼ sec.16, T.15 S., R.4 W., Lane County, monitor station on left bank, at gaging station at bridge on State Highway 99E at Harrisburg, and at mile 161.2 (259.4 km).

DRAINAGE AREA.--3,420 mi² (8,860 km²), approximately.

PERIOD OF RECORD.--Specific conductance: October 1969 to September 1974.

PH: October 1969 to September 1974.

Dissolved oxygen: October 1969 to September 1974.

Water temperatures: June 1961 to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum, 69 micromhos/cm Oct. 16; minimum, 30 micromhos/cm Dec. 27.

PH: Maximum, 8.9 units Jan. 9; minimum, 5.9 units June 6-12.

Dissolved oxygen: Maximum, 13.8 mg/l Jan. 10; minimum, 7.8 mg/l Sept. 23.

Water temperatures: Maximum, 20.0°C July 30; minimum, 2.0 Jan. 10.

Period of record:

Specific conductance: Maximum, 87 micromhos/cm Aug. 8, 1973; minimum, 30 micromhos/cm Mar. 2, 3, 7, 1972, Dec. 27, 1973.

PH: Maximum, 9.0 units Dec. 11, 1972; minimum, 5.9 units June 6-12, 1974.

Dissolved oxygen: Maximum, 14.6 mg/l Apr. 17, 1973; minimum, 6.4 mg/l July 5, 1973.

Water temperatures: Maximum, 24.0°C Aug. 12, 1973; minimum, freezing point Jan. 8, 9, 1973.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	53	47	---	---	35	33	---	---	47	44
2	---	---	50	47	---	---	35	34	---	---	45	44
3	---	50	54	46	---	---	---	---	---	---	48	45
4	54	51	47	46	---	---	---	---	---	---	49	48
5	56	51	47	45	---	---	---	---	---	---	49	45
6	56	53	46	43	---	---	---	---	38	37	45	41
7	55	54	46	41	---	---	---	---	40	38	45	42
8	56	54	48	42	---	---	---	---	41	39	48	45
9	56	55	43	37	---	---	---	---	43	41	49	48
10	62	56	41	39	---	---	---	---	44	43	47	45
11	63	58	40	36	---	---	44	43	46	42	47	44
12	63	59	39	34	---	---	48	44	45	44	48	46
13	64	60	43	31	---	---	47	45	47	45	45	44
14	63	61	42	41	---	---	45	41	48	46	45	41
15	68	63	43	41	---	---	41	35	49	46	41	39
16	69	64	45	41	---	---	37	34	49	47	40	39
17	64	62	43	42	---	---	39	37	47	44	40	37
18	68	62	42	36	---	---	---	---	46	44	39	38
19	67	60	42	39	---	---	---	---	44	39	41	39
20	66	60	44	39	---	---	37	36	41	40	41	40
21	65	60	42	40	---	---	---	---	42	41	41	39
22	60	59	42	40	---	---	---	---	44	43	41	39
23	62	58	44	42	---	---	---	---	47	44	42	41
24	63	58	43	41	---	---	---	---	48	47	43	40
25	58	54	44	41	---	---	---	---	48	47	43	41
26	57	52	43	39	---	---	---	---	47	43	42	41
27	59	51	51	40	36	30	---	---	46	43	41	41
28	60	52	---	---	35	---	---	---	46	44	41	40
29	57	53	---	---	36	35	---	---	---	---	40	38
30	58	54	---	---	35	33	---	---	---	---	38	36
31	58	52	---	---	35	34	---	---	---	---	38	36
MONTH	69	50	54	31	---	---	---	---	49	37	49	36
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	38	37	56	54	55	53	53	51	59	54	61	57
2	36	33	55	52	55	53	53	51	58	54	61	57
3	37	33	54	53	55	53	53	49	58	53	60	57
4	38	32	55	50	54	53	52	49	58	54	61	59
5	39	35	56	53	53	49	53	49	58	54	62	57
6	39	38	55	52	51	49	53	49	59	55	61	57
7	40	39	54	51	52	50	54	52	58	55	63	58
8	41	40	52	49	55	52	54	52	58	55	63	60
9	41	41	51	49	56	54	55	53	59	54	62	61
10	41	40	52	50	57	55	57	55	58	54	63	59
11	41	39	53	52	56	54	59	56	59	55	63	59
12	39	37	53	51	57	53	59	54	59	55	63	58
13	39	37	52	51	56	52	59	55	58	54	61	55
14	40	39	53	52	55	54	60	57	58	52	59	54
15	41	40	53	52	54	52	61	58	56	52	59	54
16	42	40	53	51	53	51	62	59	56	51	58	52
17	43	41	53	51	54	50	62	59	56	52	56	52
18	44	43	53	52	53	49	62	59	56	54	57	52
19	45	44	53	52	52	51	63	59	57	55	52	47
20	45	44	53	51	52	50	64	59	57	53	52	47
21	47	45	54	52	53	49	64	60	57	53	52	48
22	48	47	55	53	52	51	65	60	56	53	52	48
23	48	47	55	53	53	50	65	62	57	53	52	48
24	48	47	55	54	53	49	66	62	57	54	53	49
25	48	42	55	53	52	51	65	60	59	54	53	49
26	51	47	55	52	52	50	64	57	60	55	53	49
27	54	52	54	51	52	50	62	57	59	55	54	49
28	55	52	53	52	53	49	61	56	59	55	54	50
29	56	54	54	53	52	49	61	56	61	58	54	49
30	56	54	54	53	52	49	60	56	62	60	55	49
31	---	---	55	53	---	---	60	55	62	59	---	---
MONTH	56	32	56	49	57	49	66	49	62	51	63	47

WILLAMETTE RIVER BASIN

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.1	7.0	6.4	6.4	7.6	7.1	---	---	6.6	6.5
2	---	---	7.1	7.0	6.4	6.4	7.3	7.2	---	---	6.5	6.5
3	7.8	---	7.1	7.0	6.5	6.4	7.6	7.2	---	---	6.5	6.4
4	7.7	7.0	7.2	6.9	6.5	6.4	7.6	7.2	---	---	6.5	6.4
5	7.8	7.0	7.1	6.9	6.5	6.4	7.4	7.1	---	---	6.5	6.3
6	7.5	7.0	6.9	6.8	---	---	7.5	7.1	7.1	7.0	6.4	6.3
7	7.8	7.0	7.1	6.7	---	---	7.2	6.9	7.1	7.0	6.3	6.2
8	7.6	7.1	6.8	6.7	---	---	8.0	6.9	7.1	7.0	6.4	6.3
9	7.7	7.1	6.8	6.6	---	---	8.9	6.8	7.1	7.0	6.4	6.3
10	7.7	7.1	6.6	6.5	---	---	7.0	6.6	7.1	7.0	6.4	6.4
11	7.4	7.0	6.8	6.4	---	---	7.3	6.8	7.1	7.1	6.5	6.4
12	7.4	7.0	6.8	6.4	7.3	7.1	6.8	6.6	7.1	6.9	6.6	6.4
13	7.4	7.1	6.5	6.3	7.5	7.1	6.7	6.6	7.0	6.9	6.6	6.5
14	7.4	7.1	6.4	6.4	7.5	7.2	6.6	6.5	7.0	6.8	6.6	6.5
15	7.6	7.1	6.4	6.4	7.5	7.2	6.5	6.2	7.1	6.8	6.6	6.5
16	7.6	7.1	6.5	6.3	7.4	7.3	6.3	6.2	7.1	7.0	6.6	6.5
17	7.5	7.0	6.4	6.4	7.3	7.2	6.4	6.2	7.0	7.0	6.7	6.6
18	7.6	7.1	6.8	6.4	7.7	7.2	7.5	6.3	7.0	6.9	6.7	6.6
19	7.5	7.0	6.5	6.4	7.5	7.3	7.5	6.4	7.1	6.8	6.8	6.6
20	7.4	7.0	6.6	6.4	7.4	7.3	6.5	6.3	7.5	6.8	6.9	6.7
21	7.3	7.1	6.5	6.4	7.3	7.2	---	---	6.8	6.7	7.0	6.9
22	7.4	7.1	6.5	6.4	7.4	7.3	---	---	6.7	6.7	7.1	6.9
23	7.3	7.1	6.4	6.4	7.5	7.3	---	---	6.7	6.6	7.0	7.0
24	7.4	7.1	6.5	6.4	7.5	7.4	---	---	6.7	6.6	7.1	6.9
25	7.5	7.1	6.5	6.4	7.7	7.4	---	---	6.7	6.6	7.1	7.0
26	7.5	7.1	6.6	6.4	7.5	7.0	---	---	6.7	6.6	7.1	7.0
27	7.5	7.1	6.6	6.4	7.9	7.1	---	---	6.7	6.6	7.1	7.0
28	7.3	7.1	6.6	6.4	7.6	7.0	---	---	6.6	6.6	7.2	7.1
29	7.5	7.1	6.4	6.3	7.2	7.0	---	---	---	---	7.1	7.1
30	7.4	7.0	6.4	6.3	7.2	7.0	---	---	---	---	7.1	7.0
31	7.1	7.0	---	---	7.2	7.0	---	---	---	---	7.1	7.0
MONTH	7.8	7.0	7.2	6.3	7.9	6.4	---	---	7.5	6.6	7.2	6.2
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.1	7.0	6.7	6.1	7.1	6.1	6.9	6.5	7.0	6.5	7.6	7.0
2	7.2	7.1	6.8	6.1	6.9	6.0	7.0	6.6	7.1	6.6	7.6	7.0
3	7.2	6.9	6.9	6.1	6.7	6.0	7.0	6.5	7.1	6.6	7.5	7.0
4	7.7	6.9	7.0	6.0	6.3	6.0	7.0	6.5	7.0	6.5	7.5	7.0
5	7.0	6.8	7.0	6.0	6.1	6.0	6.8	6.5	7.0	6.5	7.5	7.0
6	6.9	6.8	7.0	6.0	6.1	5.9	6.9	6.5	7.0	6.5	7.5	6.9
7	6.8	6.7	7.0	6.0	6.1	5.9	6.9	6.5	6.9	6.5	7.4	6.8
8	6.8	6.7	6.8	6.0	6.1	5.9	6.7	6.4	7.0	6.4	7.4	6.8
9	6.7	6.6	6.5	6.0	6.1	5.9	7.3	6.4	7.0	6.5	7.1	6.7
10	6.7	6.6	6.7	6.1	6.2	5.9	7.5	7.0	7.0	6.4	7.3	6.7
11	6.6	6.5	6.6	6.0	6.2	5.9	7.5	7.2	7.1	6.5	7.2	6.7
12	6.6	6.4	6.6	6.0	6.3	5.9	7.5	7.2	7.1	6.6	7.2	6.6
13	6.5	6.4	6.8	6.1	6.4	6.0	7.5	7.1	7.0	6.6	7.1	6.6
14	6.5	6.3	6.8	6.0	6.3	6.1	7.5	7.1	7.2	6.7	7.0	6.5
15	6.4	6.2	6.7	6.1	6.4	6.1	7.5	7.1	7.3	6.7	7.0	6.5
16	6.4	6.2	6.7	6.2	6.5	6.2	7.4	7.1	7.4	6.8	6.9	6.4
17	6.4	6.1	6.8	6.1	6.6	6.2	7.3	7.0	7.4	6.8	6.7	6.3
18	6.3	6.1	6.7	6.2	6.7	6.3	7.3	7.0	7.3	6.9	6.8	6.3
19	6.4	6.2	6.8	6.2	6.7	6.4	7.4	7.1	7.3	7.0	7.6	7.1
20	6.4	6.1	7.0	6.2	6.9	6.4	7.4	7.0	7.6	7.1	7.6	7.1
21	6.5	6.1	6.9	6.1	6.9	6.5	7.4	7.0	7.6	7.1	7.6	7.1
22	6.4	6.1	6.8	6.1	6.8	6.5	7.4	7.0	7.7	7.1	7.7	7.1
23	6.5	6.1	6.9	6.2	7.0	6.6	7.5	7.0	7.7	7.1	7.6	7.1
24	6.6	6.2	6.8	6.2	7.1	6.7	7.4	6.9	7.6	7.0	---	---
25	6.5	6.2	6.9	6.1	7.0	6.7	7.4	6.9	7.6	7.0	7.6	7.1
26	6.5	6.1	7.0	6.1	7.1	6.8	7.3	6.8	7.7	7.1	7.7	7.1
27	6.4	6.0	6.9	6.1	7.0	6.7	7.3	6.8	7.6	7.0	7.7	7.2
28	6.6	6.1	6.8	6.2	7.1	6.6	7.3	6.8	7.6	7.0	7.7	7.2
29	6.7	6.1	6.6	6.2	7.1	6.6	7.2	6.7	7.5	7.0	7.8	7.2
30	6.7	6.1	7.1	6.2	7.1	6.5	7.2	6.7	7.4	7.0	7.7	7.2
31	---	---	7.1	6.1	---	---	7.2	6.7	7.5	7.1	---	---
MONTH	7.7	6.0	7.1	6.0	7.1	5.9	7.5	6.4	7.7	6.4	7.8	6.3

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.—Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.6	10.2	10.4	11.0	10.7	10.9	13.3	12.8	13.0
2	---	---	---	11.1	10.6	10.8	11.3	11.1	11.2	12.7	12.4	13.3
3	11.6	---	10.7	11.3	10.8	11.0	11.4	11.3	11.4	13.3	13.1	13.2
4	11.1	9.4	10.2	11.0	10.6	10.8	11.5	11.4	11.4	13.3	13.1	13.3
5	11.0	9.2	10.1	11.0	10.7	10.8	11.6	11.4	11.5	13.5	13.2	13.3
6	10.3	9.0	9.6	11.6	10.8	11.3	---	---	---	13.5	13.3	13.5
7	10.9	9.1	9.9	11.9	11.7	11.8	---	---	---	13.5	13.4	13.5
8	11.0	9.2	10.1	11.7	11.3	11.5	---	---	---	13.6	13.3	13.5
9	11.1	9.6	10.2	11.5	11.2	11.4	---	---	---	13.7	13.4	13.5
10	10.9	9.5	10.1	11.4	11.1	11.3	---	---	---	13.8	13.3	13.6
11	10.2	9.2	9.6	11.2	11.0	11.1	---	---	12.0	13.4	13.2	13.3
12	10.0	9.0	9.5	11.3	11.0	11.1	12.0	11.8	11.9	13.3	12.9	13.1
13	10.2	9.0	9.6	11.5	10.3	10.8	12.0	11.7	11.9	12.9	12.8	12.9
14	10.4	9.3	9.8	10.6	10.5	10.6	12.1	11.8	12.0	12.9	12.6	12.7
15	10.9	9.6	10.1	10.9	10.7	10.8	12.0	11.9	11.9	12.6	11.8	12.3
16	10.8	9.7	10.2	10.8	9.1	10.1	12.1	11.9	12.0	12.0	11.8	11.9
17	10.8	9.3	10.0	9.6	9.2	9.4	12.2	10.8	11.7	12.5	12.0	12.3
18	10.8	9.4	9.9	9.8	9.3	9.6	12.3	12.1	12.2	12.5	12.1	12.4
19	10.5	9.2	9.7	10.2	9.6	9.9	12.4	12.1	12.3	12.6	12.1	12.4
20	10.3	9.3	9.7	10.1	9.6	9.9	12.3	12.0	12.2	12.8	11.6	12.2
21	10.1	9.3	9.7	9.9	9.2	9.5	12.0	11.7	11.8	---	---	---
22	10.4	9.5	9.9	9.8	9.4	9.6	12.2	11.6	12.0	---	---	---
23	10.2	9.5	9.9	10.7	10.0	10.2	12.6	12.0	12.4	---	---	---
24	10.5	9.8	10.1	10.5	10.1	10.2	12.9	12.5	12.7	---	---	---
25	11.0	9.9	10.4	10.5	10.0	10.2	13.0	12.7	12.9	---	---	---
26	11.2	10.2	10.6	10.6	10.2	10.4	13.0	12.7	12.8	---	---	---
27	11.2	10.3	10.7	11.1	10.8	11.0	12.9	12.4	12.7	---	---	---
28	10.8	10.2	10.5	11.0	10.8	10.9	12.8	12.4	12.6	---	---	---
29	11.2	10.3	10.7	10.9	10.6	10.8	12.7	12.3	12.5	---	---	---
30	11.3	10.2	10.6	10.7	10.6	10.7	12.9	12.7	12.6	---	---	---
31	10.4	10.1	10.3	---	---	---	12.9	12.8	12.9	---	---	---
MONTH	11.6	9.0	10.1	11.9	9.1	10.6	13.0	10.7	12.1	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.3	11.3	11.9	12.7	12.5	12.6	12.6	11.3	12.0
2	---	---	---	12.0	11.4	11.6	12.6	12.5	12.6	12.8	11.4	12.1
3	---	---	---	12.8	12.1	12.5	12.8	12.3	12.5	12.8	11.4	12.1
4	---	---	---	12.6	12.3	12.4	12.8	12.3	12.5	12.8	11.0	11.9
5	---	---	12.4	12.5	12.2	12.3	12.7	12.3	12.5	12.7	10.9	11.7
6	12.6	12.4	12.5	13.0	12.3	12.6	12.8	12.3	12.6	12.2	10.6	11.4
7	12.7	12.6	12.6	13.0	12.6	12.7	12.7	12.3	12.5	11.9	10.4	11.1
8	12.7	12.5	12.6	12.6	12.3	12.4	12.2	11.8	12.0	11.6	10.3	10.9
9	12.7	12.4	12.5	12.4	12.2	12.3	12.4	11.8	12.1	11.6	10.2	10.9
10	12.4	12.3	12.4	12.3	12.1	12.2	12.6	12.1	12.3	12.2	10.8	11.5
11	12.5	12.3	12.4	12.2	11.9	12.1	12.4	12.0	12.2	12.3	11.0	11.6
12	12.5	12.2	12.3	12.1	11.9	12.0	13.0	12.1	12.6	12.3	11.1	11.7
13	12.3	12.1	12.2	12.3	11.9	12.1	12.7	12.1	12.4	12.8	11.3	12.0
14	12.2	12.1	12.2	12.3	11.7	12.0	12.5	11.9	12.2	12.6	11.2	11.8
15	12.2	12.1	12.1	12.0	11.6	11.8	12.3	11.8	12.0	11.9	10.9	11.4
16	12.2	12.1	12.1	12.3	11.7	12.0	12.4	12.0	12.2	11.6	10.3	11.0
17	12.4	12.3	12.4	12.5	12.0	12.3	12.2	11.6	11.9	11.0	9.8	10.4
18	12.5	12.3	12.4	12.5	12.2	12.4	12.1	11.5	11.8	11.2	9.8	10.5
19	---	---	---	12.5	12.2	12.3	12.4	11.6	12.0	10.7	9.5	10.0
20	---	---	12.5	12.6	12.1	12.3	12.6	11.7	12.1	10.5	9.4	9.9
21	12.7	12.5	12.6	12.5	12.0	12.2	12.7	11.9	12.2	10.1	8.8	9.6
22	12.9	12.5	12.7	12.4	12.0	12.2	12.3	11.5	11.9	10.3	8.8	9.5
23	12.9	12.7	12.8	12.5	12.0	12.3	12.2	11.4	11.8	10.2	8.7	9.4
24	12.9	12.7	12.8	12.6	12.1	12.4	12.4	11.5	11.9	9.8	8.5	9.1
25	12.8	12.4	12.6	12.7	12.2	12.4	12.3	11.5	11.9	10.2	8.4	9.3
26	12.6	12.3	12.5	12.8	12.2	12.4	12.5	11.3	11.9	9.6	8.0	8.8
27	12.8	12.4	12.6	12.6	12.2	12.4	12.1	11.1	11.6	10.0	8.1	9.1
28	12.5	12.2	12.3	12.7	12.2	12.5	12.4	11.2	11.8	10.3	9.0	9.7
29	---	---	---	12.8	12.3	12.6	12.6	11.3	12.0	10.2	9.4	9.8
30	---	---	---	12.6	12.2	12.4	12.6	11.4	12.0	11.0	9.5	10.3
31	---	---	---	12.7	12.5	12.6	---	---	---	11.1	9.7	10.4
MONTH	---	---	12.5	13.0	11.3	12.3	13.0	11.1	12.2	12.8	8.0	10.7

WILLAMETTE RIVER BASIN

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.—Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.1	9.0	10.1	---	---	---	10.1	8.8	9.5	11.3	10.2	10.6
2	10.9	9.4	10.2	---	---	---	10.3	9.0	9.7	11.0	9.9	10.4
3	11.0	9.6	10.3	---	---	---	10.1	9.0	9.6	10.9	9.6	10.2
4	10.8	9.9	10.4	---	---	---	10.3	8.9	9.6	11.1	10.0	10.5
5	---	---	10.9	---	---	---	10.2	9.1	9.6	11.1	9.8	10.4
6	---	---	---	---	---	---	10.6	9.3	9.9	10.9	9.5	10.2
7	10.8	9.4	10.3	---	---	---	11.1	9.5	10.1	10.8	9.3	10.0
8	10.4	8.2	9.3	---	---	---	10.6	9.7	10.1	10.8	9.3	10.0
9	10.2	8.2	9.1	---	---	---	10.5	9.3	9.9	10.6	9.1	9.8
10	10.0	8.0	9.0	---	---	---	10.3	9.1	9.7	11.2	9.7	10.4
11	---	---	---	---	---	---	10.4	9.0	9.7	11.0	9.7	10.3
12	---	---	---	---	---	---	10.5	9.2	9.9	10.6	9.3	9.9
13	---	---	---	10.2	9.2	9.7	10.6	9.4	10.0	10.4	9.1	9.7
14	---	---	---	10.0	9.0	9.5	10.7	9.5	10.0	10.4	9.0	9.7
15	---	---	---	10.0	8.9	9.5	10.5	9.3	9.8	10.7	9.2	9.9
16	---	---	---	10.0	9.1	9.5	10.6	9.2	9.9	11.0	9.3	10.2
17	---	---	---	10.1	8.9	9.4	10.7	9.2	9.9	10.7	9.7	10.1
18	---	---	---	9.9	9.1	9.5	10.6	9.2	9.9	10.3	9.4	9.8
19	---	---	---	9.9	8.8	9.3	10.8	9.7	10.2	9.8	8.8	9.3
20	---	---	---	9.9	8.8	9.2	10.8	9.7	10.3	9.6	8.6	9.1
21	---	---	---	9.8	8.6	9.1	10.3	9.2	9.7	9.4	8.4	8.8
22	---	---	---	9.8	8.8	9.3	10.4	8.8	9.7	9.1	8.0	8.5
23	---	---	---	10.2	8.3	9.4	10.4	9.1	9.7	9.2	7.8	8.5
24	---	---	---	10.3	9.0	9.7	10.5	9.1	9.7	---	---	9.7
25	---	---	---	10.3	9.1	9.7	10.2	8.9	9.6	9.6	8.5	9.0
26	---	---	---	10.3	9.1	9.7	10.5	8.9	9.7	9.4	8.3	8.8
27	---	---	---	10.1	8.9	9.6	10.6	9.2	9.8	9.3	8.3	8.7
28	---	---	---	10.2	8.7	9.5	10.6	9.1	9.8	9.4	8.1	8.8
29	---	---	---	10.0	9.0	9.5	10.4	9.1	9.7	9.3	8.2	8.7
30	---	---	---	9.8	8.5	9.2	10.8	9.6	10.1	9.1	8.1	8.6
31	---	---	---	10.2	8.8	9.5	11.1	9.8	10.4	---	---	---
MONTH	---	---	---	---	---	---	11.1	8.8	9.8	11.3	7.8	9.6

14166000 WILLAMETTE RIVER AT HARRISBURG, OREG.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.5	11.5	7.0	6.5	9.0	7.0	---	---	6.5	5.5
2	---	---	11.5	10.0	6.5	6.0	7.0	6.0	---	---	6.5	6.0
3	16.5	---	11.0	9.5	7.0	6.0	7.0	6.0	---	---	6.0	5.5
4	16.0	14.5	12.5	9.5	6.0	5.5	6.5	5.0	---	---	6.5	5.5
5	15.5	13.5	11.0	8.0	6.5	5.0	5.5	4.0	9.0	---	6.5	5.5
6	14.5	14.0	8.5	7.0	---	---	5.0	3.5	6.5	5.5	6.5	5.5
7	15.0	12.5	12.0	7.5	---	---	4.0	3.0	7.0	5.0	6.5	5.5
8	18.0	13.0	9.0	8.0	---	---	6.5	3.0	6.5	5.5	6.5	5.0
9	15.0	13.0	14.0	9.0	---	---	7.5	3.5	6.5	5.5	7.5	5.5
10	14.5	13.0	10.5	9.0	---	---	5.0	2.0	---	---	7.5	7.0
11	14.5	13.5	14.0	9.5	11.0	---	6.0	3.5	---	---	7.5	7.0
12	15.5	13.5	14.5	9.5	10.0	8.0	6.0	4.0	---	---	7.5	6.5
13	16.5	14.0	11.0	8.5	11.0	7.5	6.5	6.0	---	---	6.5	5.0
14	16.5	14.0	9.0	8.0	11.0	8.0	7.5	6.0	---	---	7.0	5.0
15	16.5	13.0	9.5	8.5	10.5	8.0	9.5	7.5	---	---	8.5	7.0
16	16.5	13.5	11.0	8.0	10.0	9.0	9.5	8.5	---	---	8.5	8.0
17	16.0	13.5	8.5	8.0	9.0	9.0	9.5	8.5	---	---	8.5	7.5
18	16.5	13.0	11.0	7.0	11.0	8.5	15.5	8.5	---	---	8.0	7.0
19	18.5	13.5	9.0	6.5	9.5	8.0	16.5	8.0	---	---	8.0	7.0
20	14.0	13.5	9.0	6.5	9.0	8.0	8.5	7.0	---	---	8.0	7.0
21	14.0	13.5	7.5	6.0	9.0	8.5	---	---	---	---	8.0	7.0
22	14.0	12.5	7.0	6.0	8.5	7.5	---	---	---	---	8.0	7.0
23	13.5	12.5	6.5	6.0	9.0	7.5	---	---	---	---	8.5	7.0
24	15.0	12.5	7.5	6.0	8.5	7.5	---	---	---	---	8.5	7.0
25	18.0	12.5	8.5	6.0	9.5	7.0	---	---	---	---	9.0	7.5
26	17.5	11.5	8.5	6.0	10.0	7.0	---	---	---	---	8.5	7.5
27	13.0	12.0	9.0	6.0	15.5	9.5	---	---	5.5	5.0	8.5	8.0
28	13.0	12.0	7.0	6.0	16.0	8.5	---	---	6.0	5.5	8.0	7.0
29	14.5	11.5	6.5	6.0	10.5	8.5	---	---	---	---	8.5	7.5
30	13.5	12.0	6.5	6.5	10.0	8.5	---	---	---	---	8.0	7.5
31	13.5	12.5	---	---	10.0	8.5	---	---	---	---	8.0	7.0
MONTH	18.5	11.5	14.5	6.0	16.0	5.0	---	---	---	---	9.0	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.0	11.5	10.5	14.0	11.5	16.0	14.0	19.5	17.5	17.0	15.0
2	7.5	7.0	11.0	9.0	13.5	12.0	14.5	12.0	19.0	17.0	18.0	16.5
3	7.5	7.0	12.0	9.5	13.0	12.0	16.0	13.5	19.0	17.0	17.5	16.0
4	8.0	6.5	12.5	10.0	12.5	11.0	16.0	14.0	19.5	17.5	16.5	15.5
5	8.0	7.5	13.5	11.5	11.0	9.5	15.5	14.0	18.5	17.0	17.0	15.0
6	8.5	7.5	13.0	11.5	11.5	9.5	14.5	12.5	18.0	16.0	17.0	15.5
7	9.0	7.5	13.0	11.5	12.0	10.0	15.0	13.5	17.5	15.5	17.0	15.5
8	9.0	8.0	12.5	11.5	12.5	10.0	14.5	13.5	17.5	15.5	17.0	16.0
9	8.0	7.5	11.5	10.0	13.5	11.0	14.0	12.5	18.0	16.0	17.0	16.0
10	8.0	7.5	10.5	9.5	14.5	12.0	13.5	12.0	18.0	16.5	16.5	15.0
11	9.0	8.0	11.5	10.0	14.5	12.5	14.5	12.5	17.5	16.0	16.0	15.0
12	8.5	7.0	10.5	10.0	14.5	12.5	15.5	13.5	17.0	15.5	16.0	14.5
13	9.0	7.5	10.5	9.0	14.5	12.5	16.5	14.0	16.5	15.0	16.0	14.5
14	9.5	8.0	10.5	9.5	14.0	12.0	17.0	15.0	16.0	14.0	16.0	15.0
15	9.5	8.5	10.0	9.0	12.5	12.0	16.5	15.0	16.5	15.0	16.0	15.0
16	10.0	7.5	9.5	8.5	14.0	11.0	15.5	14.5	17.0	15.0	15.5	14.0
17	10.5	9.0	9.5	8.5	15.0	12.0	15.0	14.0	17.0	15.5	15.5	14.0
18	10.5	9.5	10.0	9.0	15.0	13.0	15.0	14.5	16.5	15.5	15.5	14.0
19	9.5	8.5	10.0	9.0	14.5	12.0	17.0	14.5	15.0	14.0	16.0	14.0
20	10.0	8.5	11.5	9.5	14.0	11.0	18.0	15.5	15.5	13.5	16.0	14.5
21	11.0	8.5	11.5	10.0	15.0	12.5	18.5	16.5	16.0	14.5	15.5	14.5
22	11.0	10.0	11.5	10.0	14.5	13.0	18.0	16.0	17.0	15.0	16.0	14.5
23	10.0	9.0	12.0	10.0	15.0	11.5	18.0	16.0	17.5	16.0	16.0	14.5
24	11.0	9.0	12.0	11.0	15.0	12.5	18.0	16.0	17.5	16.0	16.0	14.5
25	10.5	9.0	13.5	11.5	14.5	12.5	18.5	16.0	18.0	16.5	15.5	14.5
26	10.5	9.0	14.0	12.0	12.5	11.5	18.5	16.5	18.0	17.0	15.5	14.0
27	10.5	9.5	13.0	11.5	13.5	12.0	18.0	16.5	18.0	17.0	15.0	13.5
28	10.5	9.5	12.5	11.0	15.5	12.5	19.0	16.5	18.0	17.0	14.5	13.0
29	12.0	10.0	11.5	10.5	16.5	14.0	19.5	17.0	17.5	17.0	14.5	13.5
30	12.0	11.0	12.0	9.5	17.0	15.0	20.0	17.5	16.5	16.0	14.5	13.5
31	---	---	13.0	10.5	---	---	19.5	17.5	16.0	15.5	---	---
MONTH	12.0	6.5	14.0	8.5	17.0	9.5	20.0	12.0	19.5	13.5	18.0	13.0

WILLAMETTE RIVER BASIN

14171750 WILLAMETTE RIVER ABOVE CALAPOOIA RIVER, AT ALBANY, OREG.

LOCATION.--Lat 44°38'30", long 123°07'00", in NW¼ sec.1, T.11 S., R.4 W., Benton County, temperature recorder on left bank, 0.6 mi (1.0 km) upstream from gaging station at Albany, 0.4 mi (0.6 km) upstream from Calapooia River, and at mile 119.9 (192.9 km).

DRAINAGE AREA.--4,460 mi² (11,600 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.0°C July 31; minimum, 1.0°C Jan. 6.

Period of record:

Water temperatures: Maximum recorded, 23.0°C July 26, Aug. 15, 1973; minimum, 0.5°C Jan. 26, 1969, Dec. 11, 1972.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.0	12.0	11.0	7.5	6.5	5.5	4.0	7.0	6.5	6.5	6.5
2	14.0	12.5	11.0	10.0	7.5	6.5	4.0	3.0	6.5	6.0	7.0	6.5
3	13.5	12.0	9.5	9.0	7.0	6.5	3.0	2.5	6.0	6.0	6.5	6.0
4	13.0	12.0	9.0	9.0	6.5	6.0	2.5	2.0	6.5	6.0	7.0	6.0
5	13.5	12.0	9.0	8.0	6.0	6.0	2.0	1.5	6.5	6.0	7.0	7.0
6	13.5	12.5	8.0	7.5	6.5	6.0	1.5	1.0	6.0	5.5	7.0	6.5
7	13.5	12.5	8.0	7.5	7.0	6.5	1.5	1.5	5.5	5.5	6.5	6.0
8	12.5	12.0	8.0	8.0	7.0	6.5	1.5	1.5	5.5	5.5	6.5	6.0
9	12.5	11.5	9.0	8.0	6.5	6.0	1.5	1.5	5.5	5.5	7.5	6.5
10	13.0	12.0	9.5	9.0	6.0	5.5	1.5	1.5	5.5	5.5	7.5	7.0
11	13.5	12.5	9.5	9.0	6.0	5.5	1.5	1.5	6.0	5.5	8.0	7.0
12	14.0	13.0	9.5	9.0	6.0	6.0	3.0	1.5	6.5	6.0	8.0	7.5
13	14.5	14.0	9.0	8.5	6.0	5.5	4.0	3.0	6.0	6.0	7.5	6.5
14	15.0	14.0	8.5	8.0	5.5	5.5	5.0	4.0	7.0	6.0	7.0	6.5
15	14.5	14.0	8.5	8.0	6.0	5.5	7.0	5.0	7.0	7.0	9.0	7.0
16	15.0	14.0	8.5	8.0	7.0	6.0	8.0	7.0	7.0	7.0	9.0	8.5
17	14.5	13.5	8.5	8.0	7.5	6.5	8.0	7.0	7.0	6.5	9.0	8.5
18	14.5	13.5	7.5	7.5	7.0	6.5	7.0	7.0	7.0	6.0	9.0	8.0
19	14.5	13.5	7.5	7.0	6.5	6.0	7.0	7.0	7.0	6.5	8.5	8.0
20	14.0	14.0	7.0	7.0	7.0	6.0	7.0	6.0	7.0	6.5	9.0	8.0
21	14.5	14.0	7.0	6.5	7.5	6.5	6.0	5.0	6.5	6.5	9.0	8.0
22	13.5	13.0	6.5	6.5	7.0	6.5	5.5	5.0	6.5	6.0	8.5	8.0
23	13.5	13.0	6.5	6.5	6.5	6.5	6.0	5.5	6.0	5.5	9.0	7.5
24	13.0	12.5	6.5	6.5	6.5	6.5	6.0	6.0	6.5	6.0	9.0	8.0
25	13.0	12.5	6.5	6.5	6.5	6.0	6.5	6.0	7.5	6.5	9.5	9.0
26	12.5	12.0	6.5	6.5	6.0	5.5	6.5	6.0	7.5	6.5	9.5	9.5
27	12.5	12.0	7.0	6.5	6.0	5.5	6.0	6.0	6.5	6.0	9.0	9.0
28	13.0	12.5	7.5	7.0	6.0	6.0	6.0	6.0	6.5	6.0	9.0	8.5
29	12.5	12.0	7.5	6.5	6.5	6.0	6.5	6.5	---	---	9.5	8.5
30	12.5	12.0	7.5	6.5	6.5	6.0	6.5	6.5	---	---	9.5	9.0
31	12.5	11.5	---	---	6.0	5.5	7.0	6.5	---	---	9.0	8.5
MONTH	15.0	11.5	12.0	6.5	7.5	5.5	8.0	1.0	7.5	5.5	9.5	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	12.0	11.0	14.5	12.5	18.0	16.0	21.5	19.5	17.5	16.0
2	9.0	8.0	11.5	11.0	15.0	13.0	16.0	14.5	21.0	19.0	18.5	16.5
3	8.5	8.0	12.5	10.5	14.0	12.5	16.5	14.0	21.0	15.5	18.0	17.5
4	9.0	8.0	13.0	11.0	13.5	12.0	17.5	15.5	21.0	19.0	17.5	16.5
5	9.0	8.5	14.0	12.0	12.5	10.5	17.0	16.0	20.5	18.5	18.0	16.0
6	9.0	8.5	13.5	12.5	11.0	9.5	16.0	14.5	19.5	18.0	18.5	16.5
7	9.5	8.5	14.0	12.5	11.5	10.5	16.0	14.5	19.0	17.0	18.5	17.0
8	9.5	9.0	13.5	12.5	12.5	11.0	16.0	15.0	19.0	17.0	18.0	17.0
9	9.0	8.5	12.5	11.0	13.5	11.5	15.0	14.0	19.0	16.5	17.5	17.0
10	8.5	8.0	11.0	10.0	14.5	12.5	14.5	13.5	20.0	17.5	17.0	16.0
11	9.0	8.0	11.5	10.0	15.0	13.5	15.0	13.5	19.5	17.0	17.5	15.5
12	9.0	8.0	---	---	15.5	14.0	16.5	14.0	18.5	17.0	17.0	15.5
13	9.5	7.5	---	---	15.5	14.0	17.5	14.5	17.5	16.5	16.5	15.0
14	10.0	9.0	10.5	---	14.5	13.0	18.5	16.0	17.0	15.5	17.0	15.5
15	10.0	9.5	10.5	9.5	13.0	12.0	18.0	16.5	17.5	15.5	17.0	15.5
16	10.0	9.0	10.0	9.0	13.5	12.0	17.0	16.0	18.0	16.0	17.0	15.5
17	10.5	9.5	10.5	9.0	15.0	13.0	16.0	15.5	18.0	16.5	16.5	15.0
18	11.0	10.0	9.5	9.0	15.5	14.0	16.0	15.5	17.5	16.5	16.5	15.0
19	10.5	10.0	10.5	9.5	15.5	14.0	17.5	15.0	17.0	15.0	17.0	15.0
20	10.5	9.5	11.5	9.5	15.0	12.5	19.0	16.0	15.5	14.5	17.0	15.0
21	10.5	9.5	12.5	10.5	15.5	13.5	20.0	17.5	16.5	14.5	16.5	15.0
22	11.0	10.0	11.5	11.0	15.0	14.0	19.5	17.5	18.0	16.0	16.5	14.5
23	10.5	9.5	11.5	11.0	14.5	13.0	19.5	17.5	18.0	16.5	16.5	15.5
24	10.5	9.5	12.0	11.0	15.5	13.5	20.0	17.5	19.0	17.0	16.5	15.0
25	11.0	10.0	13.5	11.0	15.0	14.0	20.0	18.0	19.5	17.5	16.5	15.0
26	11.0	10.0	14.5	12.5	14.0	12.5	20.0	18.0	20.0	18.0	16.0	15.0
27	11.5	10.0	14.5	13.0	14.0	12.0	20.5	18.5	20.0	18.5	15.5	14.0
28	11.0	10.5	13.5	12.5	15.5	13.0	20.5	18.5	20.0	18.5	15.0	13.5
29	12.5	10.0	13.0	11.5	17.5	14.5	21.0	19.0	19.0	18.0	15.0	13.5
30	13.0	11.5	11.5	10.5	19.0	16.5	21.5	16.5	18.0	17.0	15.0	13.5
31	---	---	13.5	11.0	---	---	22.0	19.5	17.5	16.5	---	---
MONTH	13.0	7.5	14.5	9.0	19.0	9.5	22.0	13.5	21.5	14.5	18.5	13.5

14172000 CALAPOOIA RIVER AT HOLLEY, OREG.

LOCATION.--Lat 44°21'05", long 122°47'10", in SE¼ sec.15, T.14 S., R.1 W., Linn County, temperature recorder at gaging station on right bank, 0.3 mi (0.5 km) southwest of Holley, 5.0 mi (8.0 km) upstream from Brush Creek, and at mile 45.4 (73.0 km).

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 29.0°C July 29, 30; minimum recorded, 3.5°C Nov. 3, 5, Mar. 8, 13.

Period of record:

Water temperatures: Maximum, 29.5°C July 17, Aug. 7, 1972; minimum, freezing point Dec. 19, 20, 1965, Dec. 7, 12-16, 1972.

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.0	9.0	6.5	9.5	9.5	---	---	---	---	6.5	5.0
2	13.5	8.0	6.5	4.5	10.0	7.0	---	---	---	---	6.0	4.5
3	13.0	7.5	5.5	3.5	8.0	7.0	---	---	---	---	6.0	4.0
4	13.0	7.5	5.5	4.0	7.0	6.5	---	---	---	---	5.5	5.0
5	13.0	8.0	4.5	3.5	8.0	7.0	---	---	---	---	7.5	5.5
6	12.5	10.5	6.0	4.5	8.0	7.5	---	---	---	---	7.0	6.0
7	12.5	9.5	6.5	5.5	11.0	8.5	---	---	---	---	6.0	4.0
8	12.0	8.5	8.5	6.5	8.5	8.0	---	---	---	---	6.0	3.5
9	12.5	7.5	9.0	8.0	8.5	6.0	---	---	---	---	7.0	4.5
10	12.5	7.5	9.5	9.0	7.5	6.0	---	---	---	---	6.5	5.0
11	13.5	10.0	9.5	9.5	8.0	7.0	---	---	---	---	7.0	5.5
12	13.5	11.0	9.5	8.5	10.0	6.5	---	---	---	---	6.0	4.5
13	15.0	11.5	9.5	9.0	10.0	7.0	---	---	---	---	5.5	3.5
14	14.5	11.0	10.0	9.5	10.0	7.0	---	---	---	---	7.5	5.0
15	14.0	9.5	10.0	9.0	9.5	8.0	---	---	---	---	8.0	6.5
16	14.0	9.0	10.0	9.0	10.5	9.5	---	---	---	---	8.0	7.5
17	14.0	9.0	9.5	9.0	9.5	8.5	---	---	---	---	7.5	6.5
18	13.5	9.0	10.0	6.0	8.5	8.5	---	---	---	---	7.5	6.0
19	13.0	10.0	7.0	6.0	9.5	7.0	---	---	---	---	8.0	4.5
20	13.5	11.0	10.0	7.0	9.5	8.5	---	---	---	---	7.5	4.5
21	12.0	10.5	9.5	7.0	9.0	9.0	---	---	---	---	8.0	4.5
22	11.5	9.5	10.0	6.0	9.0	8.5	---	---	---	---	7.0	4.5
23	12.0	10.5	7.5	7.0	9.0	8.0	---	---	---	---	8.5	5.5
24	11.5	9.5	7.5	7.0	9.0	8.0	---	---	---	---	8.5	4.5
25	10.5	8.5	7.5	7.0	8.5	8.0	---	---	---	---	8.5	6.5
26	10.0	7.5	7.5	6.5	8.0	6.0	---	---	---	---	9.0	6.0
27	11.0	8.0	11.0	7.5	7.5	7.0	---	---	---	---	8.0	6.5
28	11.0	9.5	10.0	8.5	8.5	8.5	---	---	---	---	7.0	6.0
29	10.5	8.5	9.5	8.5	8.5	8.5	---	---	---	---	8.0	5.5
30	10.5	8.5	9.5	9.0	---	---	---	---	---	---	8.0	7.0
31	11.5	9.0	---	---	---	---	---	---	---	---	7.5	6.5
MONTH	15.0	7.5	11.0	3.5	11.0	6.0	---	---	---	---	9.0	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	9.5	8.0	17.5	11.0	19.5	15.5	27.5	19.5	24.0	17.0
2	7.5	6.5	11.0	7.0	18.0	12.5	19.5	14.0	27.5	19.5	25.0	17.5
3	7.5	6.0	12.5	8.0	16.5	13.0	22.5	14.0	28.5	19.5	21.5	17.5
4	8.0	5.0	13.5	8.0	14.5	10.5	22.0	16.5	27.5	20.5	20.0	16.0
5	7.5	6.0	14.0	9.5	10.5	9.0	19.0	16.0	26.0	19.0	23.0	14.5
6	7.5	5.5	13.0	10.0	12.0	9.0	19.5	15.0	24.5	18.0	23.5	15.0
7	8.5	5.5	14.0	10.5	12.5	9.0	21.0	15.5	24.5	16.0	23.0	14.5
8	7.5	6.0	13.5	10.0	15.0	9.0	18.5	16.0	24.5	16.0	22.0	17.5
9	7.0	5.5	11.5	9.0	16.5	10.5	16.0	14.5	25.5	16.0	19.0	17.0
10	7.0	5.0	10.5	8.0	18.0	11.5	16.5	14.0	26.0	17.0	21.5	15.5
11	7.5	6.0	11.5	9.0	18.0	13.0	18.5	13.5	25.0	17.0	21.0	13.5
12	7.5	4.5	10.0	8.0	19.5	13.5	21.0	13.5	23.0	16.5	20.5	13.0
13	8.5	4.0	9.5	6.5	20.0	14.5	23.0	15.0	19.0	15.0	21.5	12.5
14	9.5	5.0	9.5	7.5	17.5	14.5	24.0	16.0	22.5	14.0	21.5	13.0
15	8.0	6.5	9.0	6.5	15.0	13.5	20.5	17.0	23.5	15.0	21.5	13.0
16	10.0	5.5	8.5	6.0	17.5	13.0	20.0	14.5	24.0	15.5	21.5	13.0
17	10.0	5.5	8.5	6.0	20.5	14.5	19.5	16.5	24.0	16.0	21.5	12.5
18	9.0	7.0	8.5	7.0	21.5	16.0	18.0	17.0	20.5	17.5	21.5	13.0
19	7.5	6.0	10.0	7.0	18.5	15.5	21.0	16.5	17.0	15.5	22.0	14.0
20	8.0	6.0	13.0	8.0	20.0	13.0	24.5	16.0	21.5	14.0	22.5	13.5
21	11.5	6.5	12.0	7.5	22.0	14.5	25.0	17.5	23.0	14.0	22.0	14.5
22	10.0	8.0	10.5	8.5	18.5	14.5	25.0	16.5	---	16.5	22.0	14.5
23	8.0	6.5	12.5	8.5	20.0	13.0	23.5	18.0	25.5	18.5	21.5	14.0
24	10.0	6.5	11.5	10.5	20.0	13.5	24.5	15.5	25.5	17.5	21.5	13.5
25	10.0	6.0	15.0	11.0	17.0	14.0	25.0	16.5	26.5	17.0	21.0	13.5
26	9.0	5.5	16.0	12.5	15.0	12.0	25.5	17.5	26.5	17.5	19.5	13.5
27	9.5	7.0	15.5	11.0	18.0	13.5	26.5	18.0	25.5	18.0	17.5	11.0
28	9.5	7.0	13.5	10.0	21.0	13.0	28.0	19.0	25.5	19.0	17.5	10.5
29	12.0	6.5	12.0	9.5	23.5	15.5	29.0	21.0	21.5	18.5	18.0	10.5
30	11.5	9.0	14.5	8.0	25.0	18.0	29.0	21.0	20.0	17.5	17.5	10.0
31	---	---	16.0	9.5	---	---	28.0	20.0	20.0	17.5	---	---
MONTH	12.0	4.0	16.0	6.0	25.0	9.0	29.0	13.5	28.5	14.0	25.0	10.0

WILLAMETTE RIVER BASIN

14173500 CALAPOOIA RIVER AT ALBANY, OREG.

LOCATION.--Lat 44°37'15", long 123°07'40", in NW¼ sec.13, T.11 S., R.4 W., Linn County, temperature recorder at gaging station near right bank, on downstream side of bridge on Riverside Drive in Albany, 0.6 mi (1.0 km) downstream from Oak Creek, and at mile 3.0 (4.8 km).

DRAINAGE AREA.--372 mi² (963 km²).

PERIOD OF RECORD.--Water temperatures: January 1964 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 27.0°C July 30 to Aug. 1; minimum, freezing point Jan. 6-12.

Period of record:

Water temperatures: Maximum, 28.5°C Aug. 16, 17, 19-21, 1967; minimum, freezing point sometime during period Jan. 7 to Feb. 18, 1969, Dec. 16-18, 1972, Jan. 6-12, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	15.0	11.5	10.5	7.0	7.0	6.0	4.5	7.0	6.5	6.5	6.5
2	15.5	14.5	10.5	9.0	7.0	7.0	4.5	3.0	6.5	6.0	7.0	6.5
3	15.0	13.5	9.0	8.0	7.0	7.0	3.0	2.0	6.0	6.0	6.5	6.0
4	14.5	13.0	8.0	6.5	7.0	6.5	2.0	1.5	6.5	6.0	6.5	6.0
5	14.0	13.0	6.5	6.0	6.5	6.0	1.5	0.5	6.5	6.0	7.0	6.5
6	14.0	14.0	6.0	6.0	7.0	6.5	0.5	0.0	6.0	5.0	7.0	7.0
7	14.5	13.5	6.0	6.0	8.5	7.0	0.0	0.0	5.0	5.0	7.0	6.5
8	14.0	13.0	6.5	6.0	8.5	6.5	0.0	0.0	5.0	5.0	6.5	6.0
9	13.0	11.5	8.5	6.5	6.5	6.0	0.0	0.0	5.0	5.0	7.0	6.0
10	13.0	11.5	9.5	8.5	6.0	6.0	0.0	0.0	5.0	5.0	8.0	7.0
11	13.5	13.0	10.0	9.5	6.5	6.0	0.0	0.0	5.0	5.0	8.5	8.0
12	14.0	13.0	10.0	10.0	6.5	6.5	0.5	0.0	5.5	5.0	8.5	8.0
13	14.0	13.5	10.0	9.0	6.5	6.0	2.0	0.5	5.5	5.0	8.0	6.5
14	15.0	14.0	9.0	8.0	6.0	6.0	4.5	2.0	5.5	5.0	6.5	6.5
15	15.0	14.0	8.5	8.0	6.5	6.0	8.5	4.5	6.5	5.5	9.0	6.5
16	15.0	14.5	9.0	8.5	8.0	6.5	9.0	8.5	6.5	6.5	9.5	9.0
17	15.0	14.0	9.0	8.5	8.5	8.0	8.5	7.0	6.5	6.0	9.5	9.0
18	14.5	13.5	8.5	8.0	8.5	8.0	7.0	6.5	6.5	6.5	9.0	8.0
19	14.0	13.5	8.0	6.5	8.0	6.5	8.0	7.0	7.0	6.5	8.5	8.0
20	14.0	13.5	6.5	6.5	7.0	6.5	8.0	6.0	7.0	6.5	8.5	8.0
21	14.0	13.5	6.5	6.0	8.5	7.0	6.0	5.0	6.5	6.5	9.0	8.5
22	14.0	13.5	6.0	6.0	8.5	8.0	5.0	5.0	6.5	5.5	9.0	8.5
23	13.5	13.5	6.0	6.0	8.0	7.0	6.0	5.0	5.5	5.5	8.5	8.0
24	13.5	12.0	6.0	6.0	7.0	7.0	6.0	5.5	6.0	5.5	9.5	8.5
25	13.0	11.5	6.0	6.0	7.0	6.5	6.0	5.5	7.0	6.0	10.0	9.0
26	13.0	11.0	6.0	6.0	6.5	6.0	6.0	6.0	8.0	7.0	10.5	9.5
27	11.0	11.0	6.5	6.0	7.0	6.0	6.0	5.5	7.0	6.0	10.5	10.5
28	11.5	11.0	8.0	6.5	7.0	7.0	5.5	5.5	6.5	6.0	10.5	9.5
29	11.5	11.0	8.0	7.0	7.0	7.0	6.5	5.5	---	---	9.5	9.5
30	11.5	11.0	7.0	7.0	7.0	6.5	7.0	6.5	---	---	10.0	9.5
31	11.5	11.5	---	---	6.5	6.0	7.0	6.5	---	---	10.0	9.5
MONTH	16.5	11.0	11.5	6.0	8.5	6.0	9.0	0.0	8.0	5.0	10.5	6.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	13.5	12.0	18.0	15.5	23.0	20.0	27.0	24.5	21.0	20.0
2	9.0	8.5	13.5	12.0	18.5	16.5	20.0	18.5	26.5	24.0	21.5	20.5
3	8.5	8.5	13.5	11.0	18.5	18.0	21.5	18.5	26.5	24.5	21.0	20.5
4	8.5	8.5	14.5	12.0	18.5	17.0	21.5	20.0	26.5	24.5	21.0	20.0
5	9.0	8.5	16.0	14.0	17.0	14.5	21.5	20.0	26.5	23.5	21.5	19.0
6	9.0	9.0	16.5	14.5	14.5	13.5	20.5	18.5	25.0	23.0	22.0	20.0
7	9.0	8.5	16.5	15.0	14.5	13.0	20.5	19.5	24.5	21.5	21.5	20.0
8	9.5	9.0	16.5	15.5	15.5	13.5	20.5	19.5	24.0	21.0	21.5	20.5
9	9.5	8.5	16.5	15.0	17.0	14.5	19.5	18.0	24.0	21.0	20.5	20.0
10	8.5	8.0	15.0	13.5	19.0	15.5	19.0	17.0	24.5	21.5	20.0	19.0
11	9.0	8.0	14.0	13.0	19.5	17.0	19.5	18.0	24.0	21.5	20.0	18.5
12	8.5	8.0	14.0	13.0	21.0	18.5	20.5	18.0	23.5	21.0	20.0	18.5
13	8.5	8.0	14.0	12.0	21.0	19.0	21.5	19.0	22.0	20.0	20.0	18.0
14	9.5	8.5	13.0	11.0	21.0	19.0	22.0	20.0	20.5	18.5	20.0	18.5
15	10.0	9.5	12.0	11.0	19.5	19.0	22.0	20.5	21.5	19.0	20.0	18.5
16	10.5	10.0	11.5	10.5	20.0	18.5	21.0	19.5	22.0	19.5	20.0	18.5
17	11.0	10.0	11.5	10.5	20.5	19.0	20.0	19.5	22.0	20.0	20.0	19.0
18	11.0	10.5	11.0	10.0	21.0	19.5	20.0	19.5	22.0	21.0	20.5	19.0
19	11.0	10.5	11.0	10.0	21.0	20.0	21.0	19.0	21.0	19.5	20.5	19.0
20	10.5	10.0	12.0	10.5	21.0	19.0	23.0	20.0	20.0	18.5	21.0	19.5
21	11.0	10.0	13.5	11.5	22.0	20.0	23.5	21.0	21.0	18.5	21.0	19.5
22	11.0	10.5	14.0	13.0	21.5	20.0	23.5	21.0	21.5	19.5	21.0	19.5
23	11.0	10.5	14.0	13.0	21.0	19.0	23.5	21.0	22.0	20.5	21.0	19.5
24	11.0	10.0	13.5	13.0	21.0	19.0	23.5	21.0	23.5	21.0	21.0	20.0
25	12.0	10.0	15.5	13.5	20.5	18.5	24.5	21.5	24.5	21.5	20.0	19.0
26	12.0	11.0	16.5	15.0	18.5	16.5	24.5	21.5	24.5	22.0	20.0	18.5
27	11.5	11.0	18.5	16.0	18.5	16.5	25.0	22.0	24.5	22.0	19.5	16.5
28	11.5	11.0	18.0	16.0	19.5	16.5	26.0	23.5	24.5	22.0	18.0	16.5
29	12.0	10.5	17.0	15.5	21.5	18.5	26.5	24.0	24.0	21.5	18.0	16.5
30	13.5	11.0	17.0	14.5	23.5	20.0	27.0	24.5	22.0	21.0	17.0	16.0
31	---	---	16.0	14.5	---	---	27.0	24.5	21.0	20.0	---	---
MONTH	13.5	8.0	18.5	10.0	23.5	13.0	27.0	17.0	27.0	18.5	22.0	16.0

WILLAMETTE RIVER BASIN

61

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OREG.

LOCATION.--Lat 44°42'25", long 122°06'00", in SE¼ sec.17, T.10 S., R.6 E., Marion County, temperature recorder at gaging station on right bank, 0.5 mi (0.8 km) downstream from Boulder Creek, 3.0 mi (4.8 km) southeast of Detroit, and at mile 70.7 (113.8 km).

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

Water temperatures: April 1951 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 16.0°C July 30, Aug. 3, 4; minimum, freezing point Jan. 4-11.

Period of record:

Water temperatures: Maximum, 19.0°C July 8, 18, 19, 1970; minimum, freezing point Dec. 1, 1954, Mar. 5, Feb. 16, 17, 1956, Jan. 4-11, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 29...	1300	515	7.5	7.7	11.4	47	7	186	101
DEC. 03...	1230	1375	4.1	8.0	11.9	35	2	330	10
JAN. 14...	1210	3300	2.9	8.0	11.7	13	14	110	28
MAR. 01...	1000	1100	4.3	7.4	11.0	34	5	0	2
APR. 08...	1015	1680	4.4	--	12.2	32	5	90	10
MAY 21...	1400	1270	7.0	--	10.0	34	0	222	0
JULY 01...	1515	1640	9.3	7.5	8.0	29	5	10	0
AUG. 21...	1400	647	11.0	8.1	9.2	42	6	48	20

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 29...	515	22	4.2	1.4	3.0	1.0	27	0	1.5	.6

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRIT- PLUS (N) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
OCT. 29...	.1	.01	47	65.4	.06	16	0	.04	0	0

DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 29...	0	0	0	2	50	2	0	30	10	.0

WILLAMETTE RIVER BASIN

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OREG.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.5	7.0	5.0	4.5	3.5	2.5	1.5	4.0	3.0	4.0	3.0
2	8.0	6.0	5.0	4.0	4.5	3.5	1.5	0.5	4.0	3.0	3.0	2.5
3	8.0	5.5	4.5	3.5	4.5	3.5	1.5	0.5	4.5	3.0	3.5	2.5
4	8.0	5.5	4.0	2.0	4.0	3.5	1.0	0.0	4.0	2.5	3.5	2.5
5	8.5	6.5	3.0	0.5	4.5	3.5	0.0	0.0	3.5	2.5	3.5	2.5
6	9.0	7.5	3.5	1.5	4.5	4.0	0.5	0.0	3.0	2.5	4.0	2.5
7	8.0	7.0	4.5	3.5	4.5	3.5	1.0	0.0	3.5	3.0	3.5	2.0
8	7.5	5.5	5.0	4.0	4.0	3.5	1.5	0.0	3.5	3.0	4.0	2.0
9	7.0	5.0	5.0	4.0	4.0	3.5	1.0	0.0	4.0	2.5	5.0	3.0
10	8.0	6.0	5.5	4.5	4.5	3.5	1.0	0.0	3.5	2.5	4.5	3.0
11	8.5	7.0	5.5	5.5	4.5	4.0	2.0	0.0	4.0	2.5	5.0	3.5
12	9.0	7.5	5.5	5.0	4.5	3.5	2.5	2.0	4.0	3.0	4.0	3.0
13	9.5	8.0	5.0	4.5	4.5	3.5	3.0	2.5	4.0	3.0	4.5	2.5
14	9.0	7.0	5.0	4.0	4.0	3.5	3.5	3.0	4.5	3.5	4.0	3.0
15	8.5	6.0	5.5	4.0	4.5	3.5	3.5	2.5	4.5	3.5	5.5	3.5
16	8.5	7.0	5.5	4.5	4.5	4.0	4.0	3.0	4.0	3.0	5.0	3.5
17	8.5	6.5	5.5	4.5	4.5	4.0	3.5	3.0	4.0	3.0	5.0	3.5
18	8.5	7.0	5.0	4.0	4.0	3.5	4.5	3.5	3.5	2.5	5.5	3.5
19	9.0	7.0	4.5	3.5	4.5	3.5	4.0	3.0	3.5	3.0	5.5	3.0
20	9.5	8.5	4.5	2.5	4.5	4.0	3.5	3.0	4.0	3.0	5.5	2.5
21	9.0	8.5	3.5	2.0	4.5	4.0	3.0	2.5	4.0	2.5	5.5	3.0
22	9.0	7.5	4.0	3.0	4.5	4.0	3.5	2.5	3.5	2.0	5.5	3.0
23	8.0	7.5	4.0	3.5	4.5	3.5	3.5	3.0	4.0	2.5	6.0	3.5
24	7.5	7.0	4.0	3.0	4.5	4.0	4.0	3.5	4.5	2.5	6.0	3.0
25	7.5	6.5	3.5	3.0	4.0	3.5	4.0	3.5	4.5	3.5	5.5	4.0
26	7.0	5.0	4.0	3.0	4.0	3.5	3.5	2.5	4.0	2.0	6.0	3.5
27	7.5	6.0	4.0	3.5	4.0	4.0	3.0	2.5	3.5	2.5	5.0	4.0
28	8.0	7.0	4.0	3.5	4.5	3.5	4.0	3.0	3.5	3.0	4.5	4.0
29	7.5	6.5	4.0	3.0	4.0	3.5	4.0	3.5	---	---	5.5	4.0
30	7.5	6.5	4.5	3.5	4.0	3.5	4.5	3.5	---	---	5.0	4.0
31	8.0	7.0	---	---	3.5	2.5	4.0	3.0	---	---	5.0	3.5
MONTH	9.5	5.0	7.0	0.5	4.5	2.5	4.5	0.0	4.5	2.0	6.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.5	6.0	4.5	10.0	5.5	10.0	7.5	15.5	10.5	14.0	10.5
2	4.5	3.0	8.0	4.5	10.0	5.0	12.0	7.5	15.5	11.0	13.5	9.5
3	5.5	3.5	8.5	5.0	9.0	5.5	13.0	8.0	16.0	11.5	14.0	10.0
4	5.0	3.5	9.0	4.5	6.5	6.0	12.5	8.5	16.0	11.5	12.0	9.5
5	5.5	4.0	9.0	4.5	6.0	4.0	10.5	9.0	15.0	11.5	13.0	9.0
6	5.5	4.0	8.0	5.0	7.0	4.5	12.5	8.0	14.5	11.0	13.0	9.0
7	6.5	4.0	8.5	5.0	8.0	4.0	11.5	8.5	13.5	9.5	13.0	9.0
8	5.5	4.0	8.5	5.0	9.5	4.0	11.0	8.5	14.0	9.5	12.5	9.5
9	5.0	4.0	5.5	5.0	10.0	5.0	9.5	8.5	14.5	9.5	11.0	9.0
10	5.5	4.0	6.0	4.0	10.5	5.0	9.0	8.0	14.5	10.0	11.5	9.0
11	5.0	4.5	6.5	4.5	10.0	6.0	10.0	7.5	14.5	9.5	11.5	8.0
12	6.0	3.5	6.0	4.5	10.5	6.0	12.5	7.5	13.5	9.5	11.5	8.0
13	7.0	3.0	6.5	4.0	11.0	5.5	13.5	8.0	11.5	9.5	11.5	7.5
14	7.5	3.5	5.0	4.0	11.0	5.5	14.0	9.0	13.0	9.0	11.5	7.5
15	6.0	4.0	5.0	3.5	10.5	6.0	11.5	9.0	13.5	9.0	11.5	8.0
16	8.0	4.0	6.0	3.5	11.0	7.0	11.5	7.5	14.0	9.0	11.5	7.5
17	8.0	4.0	6.0	4.0	11.5	6.5	11.0	9.0	14.5	9.5	11.5	8.5
18	6.5	4.5	5.5	4.5	11.0	7.0	13.5	9.5	12.0	10.5	11.5	8.0
19	5.5	4.5	7.0	4.5	11.0	7.0	14.5	10.0	10.5	9.5	11.5	7.5
20	6.5	4.5	7.0	5.0	11.0	7.0	14.5	9.0	13.0	9.5	12.0	8.5
21	8.5	4.5	9.0	4.0	11.5	6.5	14.5	9.5	13.0	9.0	12.0	8.0
22	7.0	5.0	8.5	5.5	11.5	7.0	14.5	9.5	13.0	9.5	12.0	9.0
23	6.5	4.5	8.0	5.0	11.5	7.0	14.5	9.5	14.0	10.5	11.5	7.5
24	7.0	4.5	7.0	5.5	11.5	6.5	14.5	9.5	14.0	10.0	11.5	7.5
25	6.5	3.5	9.5	5.5	9.5	7.0	14.5	9.0	14.5	10.0	11.5	8.0
26	6.5	4.0	9.0	6.0	9.5	6.5	14.5	10.0	15.0	10.0	11.0	8.5
27	6.0	4.5	9.0	5.5	11.0	6.5	15.0	10.0	14.5	10.5	10.0	6.5
28	7.0	4.5	8.0	4.5	12.0	6.5	15.5	10.5	14.5	11.5	10.0	7.0
29	8.5	4.5	6.5	5.0	12.5	7.0	15.0	11.5	15.0	11.0	10.0	6.0
30	7.5	5.0	9.0	4.0	13.5	8.5	16.0	11.5	14.5	11.0	10.5	7.5
31	---	---	9.5	4.0	---	---	15.5	10.5	14.5	11.5	---	---
MONTH	8.5	3.0	9.5	3.5	13.5	4.0	16.0	7.5	16.0	9.0	14.0	6.0

WILLAMETTE RIVER BASIN

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14179000 BREITENBUSH RIVER ABOVE CANYON CREEK, NEAR DETROIT, OREG.

LOCATION.--Lat 44°45'10", long 122°07'40", in SE 1/4 sec.36, T.9 S., R.5 E., Marion County, temperature recorder at gaging station on left bank, 600 ft (183 m) upstream from Canyon Creek, 1.5 mi (2.4 km) northeast of Detroit, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

Water temperatures: December 1950 to July 1961, January 1962 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 15.0°C July 29, 30, Aug. 2-4; minimum recorded, 1.0°C Jan. 11, 12, Feb. 22, 26, 27.

Period of record:

Water temperatures: Maximum, 18.0°C July 27, 1973; minimum, freezing point on several days in December 1972 and January 1973.

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	IMMF- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 29...	1300	297	7.0	7.5	11.4	50	6	76	12
DEC. 03...	1300	770	4.3	8.1	11.9	40	2	90	0
JAN. 14...	1430	3000	3.6	7.7	11.7	13	18	54	10
MAR. 01...	0930	540	4.5	7.6	10.2	38	5	0	2
APR. 08...	1230	950	4.8	--	12.8	36	7	20	0
MAY 21...	1430	1380	7.5	--	9.2	39	0	220	0
JULY 01...	1420	772	8.1	7.6	8.4	27	6	30	0
AUG. 21...	1340	227	10.3	8.1	8.8	43	6	60	10

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 29...	297	19	4.8	1.0	3.6	.7	28	0	2.0	.8

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
OCT. 29...	.0	.00	46	36.9	.06	16	0	.01	2	0

DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 29...	0	0	0	2	30	3	0	20	0	.0

WILLAMETTE RIVER BASIN

14179000 BREITENBUSH RIVER ABOVE CANYON CREEK, NEAR DETROIT, OREG.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	---	---	5.5	5.0	---	---	3.5	3.0	2.5	1.5
2	7.0	5.0	5.0	4.5	5.0	5.0	---	---	3.5	3.0	2.5	1.5
3	7.0	4.5	5.0	4.0	5.0	4.5	---	---	3.5	3.0	2.0	1.5
4	6.5	4.5	4.0	---	5.0	4.5	---	---	3.5	1.5	---	---
5	7.5	5.5	3.5	---	5.0	4.5	---	---	3.0	2.0	---	---
6	7.5	7.0	3.5	---	5.0	5.0	---	---	2.5	2.0	---	---
7	7.5	6.0	4.5	4.0	5.0	4.5	---	---	2.5	2.0	---	---
8	6.5	5.0	5.0	4.5	5.0	4.5	---	---	2.5	2.0	---	---
9	6.5	4.5	5.5	4.5	4.5	4.0	---	---	2.5	2.0	---	---
10	7.0	5.0	6.0	5.5	5.0	4.0	---	---	2.5	1.5	---	---
11	7.5	6.5	6.0	6.0	5.0	4.5	1.5	1.0	2.5	1.5	---	---
12	8.5	7.0	6.0	6.0	5.0	4.0	1.5	1.0	3.0	2.0	---	---
13	8.5	7.5	6.0	5.5	4.5	4.0	2.5	1.5	3.0	2.0	---	---
14	8.0	6.5	5.5	5.0	4.5	4.0	3.0	3.0	3.0	2.0	---	---
15	7.5	6.0	6.0	5.0	5.0	4.5	3.5	3.0	3.0	2.5	---	---
16	8.0	6.5	6.0	5.5	5.0	5.0	4.0	3.0	3.0	2.5	---	---
17	7.5	6.0	6.0	5.5	5.0	5.0	4.0	4.0	3.0	2.0	---	---
18	8.0	6.0	5.5	5.0	5.0	4.5	4.5	4.0	3.0	1.5	---	---
19	8.0	5.5	5.5	4.5	5.0	4.0	4.0	3.0	2.5	2.0	---	---
20	8.5	8.0	5.0	3.5	5.0	3.0	3.5	3.0	2.5	1.5	---	---
21	---	---	4.0	2.5	3.5	2.5	3.0	2.0	2.5	2.0	5.5	---
22	---	---	5.0	3.0	3.5	2.5	3.0	2.0	2.0	1.0	5.5	3.0
23	---	---	4.5	4.0	---	---	3.5	2.5	2.5	1.5	5.5	3.5
24	---	---	5.0	4.0	---	---	4.0	3.0	3.0	1.5	5.5	3.0
25	---	---	4.5	4.0	---	---	3.5	3.0	3.0	2.0	5.5	4.0
26	---	---	5.0	4.5	---	---	3.5	2.5	3.0	1.0	6.0	4.0
27	---	---	5.0	4.0	---	---	2.5	2.0	2.0	1.0	5.0	4.0
28	---	---	5.0	4.5	---	---	3.5	2.5	2.0	1.5	4.5	4.0
29	---	---	5.0	5.0	---	---	3.5	3.0	---	---	5.0	4.0
30	---	---	5.5	5.0	---	---	4.0	3.0	---	---	4.5	4.0
31	---	---	---	---	---	---	3.5	3.0	---	---	4.5	4.0
MONTH	---	---	6.0	2.5	---	---	---	---	3.5	1.0	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.5	5.5	4.5	10.0	5.5	9.0	7.5	14.5	10.0	13.5	10.5
2	4.5	3.5	7.5	4.5	9.5	5.5	11.5	7.0	15.0	10.0	13.5	10.5
3	5.0	3.5	---	---	9.0	5.5	12.0	7.0	15.0	10.5	13.5	10.5
4	4.5	3.5	8.5	4.0	6.5	5.5	11.5	8.0	15.0	10.5	12.5	10.5
5	5.0	4.0	8.5	4.5	6.0	5.0	9.5	8.0	14.5	10.5	12.5	9.0
6	5.0	4.0	7.5	5.0	6.5	5.0	11.5	7.0	14.0	10.0	12.5	9.5
7	6.0	4.0	8.0	5.0	7.0	4.5	11.0	7.5	13.0	9.0	12.5	9.0
8	5.5	4.0	8.0	5.0	9.0	4.5	10.0	8.0	13.5	9.0	12.0	10.0
9	4.5	4.0	5.5	4.5	9.5	5.0	9.0	8.0	13.5	9.0	11.5	10.5
10	5.0	4.0	6.0	4.5	10.5	5.5	9.0	7.5	14.0	9.5	11.0	9.5
11	5.0	4.0	6.0	5.0	9.5	6.0	9.5	7.5	13.5	10.0	11.0	8.5
12	5.5	3.5	6.0	4.5	10.0	6.0	12.0	7.0	12.5	9.0	11.0	8.0
13	6.5	3.0	6.0	4.0	10.5	5.5	13.0	7.5	11.0	9.0	11.0	8.0
14	7.0	3.5	5.0	4.0	10.5	6.0	13.0	8.5	12.5	9.0	11.0	8.0
15	6.0	4.0	5.0	3.5	10.0	6.0	10.5	8.5	13.0	9.0	11.0	8.0
16	7.0	4.0	6.0	3.5	10.5	6.0	10.5	7.0	13.5	9.5	11.0	8.0
17	7.5	4.0	6.0	4.0	11.0	6.0	9.5	8.5	13.5	10.0	11.0	8.0
18	6.0	4.5	5.5	4.5	10.5	6.5	12.5	8.5	12.5	10.5	11.0	8.0
19	5.5	4.0	6.5	4.5	10.5	6.5	13.5	9.0	10.5	9.5	11.0	8.5
20	6.0	4.5	7.0	5.0	10.5	6.5	13.5	8.5	12.5	9.0	12.0	9.0
21	8.0	4.5	8.5	4.0	11.5	6.5	13.5	9.0	12.5	9.0	11.5	9.0
22	6.5	5.0	8.5	5.5	11.0	7.0	13.0	9.0	12.5	9.5	11.5	9.0
23	6.5	4.5	8.0	5.5	11.0	7.0	13.5	9.5	13.5	10.0	11.5	9.0
24	6.5	4.5	6.5	5.5	11.0	6.5	13.5	9.0	13.0	10.0	11.5	8.5
25	6.0	3.5	9.0	5.5	8.5	7.0	13.5	8.5	13.5	10.0	11.0	8.5
26	6.0	4.0	9.5	5.5	8.5	6.0	13.5	9.5	14.0	10.0	10.5	8.5
27	5.5	4.5	8.5	5.0	10.5	7.0	13.5	9.5	14.0	10.5	9.5	7.0
28	7.0	4.5	7.5	5.0	11.5	7.0	14.5	10.0	14.0	10.5	9.5	7.0
29	---	---	6.5	5.0	12.5	7.5	15.0	10.5	14.0	10.5	9.5	7.0
30	---	---	9.0	4.5	12.5	7.5	15.0	10.5	14.5	11.0	9.5	7.0
31	---	---	9.5	4.5	---	---	14.5	10.0	14.5	11.5	---	---
MONTH	8.0	3.0	9.5	3.5	12.5	4.5	15.0	7.0	15.0	9.0	13.5	7.0

14181500 NORTH SANTIAM RIVER AT NIAGARA, OREG.

LOCATION.—Lat 44°45'10", long 122°17'50", in NE 1/4 sec. 34, T. 9 S., R. 4 E., Linn County, temperature recorder at gaging station on left bank, 2.1 mi (3.4 km) east of Niagara, and at mile 57.3 (92.2 km).

DRAINAGE AREA.—453 mi² (1,173 km²).

PERIOD OF RECORD.—Water temperatures: January 1953 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum, 13.0°C Oct. 17, 18, 22, 23; minimum, 1.5°C Jan. 10-13.

Period of record:

Water temperatures: Maximum, 16.5°C July 28, 29, 1958; minimum, 1.5°C on several days in 1957, 1971, and Jan. 10-13, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.0	10.5	10.0	6.5	6.0	4.5	4.5	3.0	3.0	2.5	2.5
2	12.5	12.0	11.0	10.5	6.0	6.0	4.5	4.0	3.0	3.0	2.5	2.5
3	12.0	12.0	10.5	10.0	6.0	6.0	4.0	4.0	3.0	3.0	2.5	2.5
4	12.0	12.0	10.5	10.0	6.0	6.0	4.0	3.5	3.0	3.0	2.5	2.5
5	12.5	12.0	10.0	9.5	6.0	6.0	3.5	3.5	3.0	3.0	2.5	2.5
6	12.5	12.0	10.0	10.0	6.0	6.0	3.5	3.0	3.0	3.0	2.5	2.5
7	12.0	12.0	10.0	9.5	6.0	6.0	3.0	2.0	3.0	2.5	2.5	2.5
8	12.5	12.0	9.5	9.5	6.0	5.5	2.0	2.0	3.0	2.5	2.5	2.5
9	12.5	12.0	9.5	9.0	5.5	5.5	2.0	2.0	3.0	3.0	3.0	2.5
10	12.5	12.0	9.0	8.5	5.5	5.5	2.0	1.5	3.0	2.5	3.0	2.5
11	12.5	12.0	8.5	8.0	5.5	5.5	2.0	1.5	3.0	2.5	3.0	2.5
12	12.5	12.5	8.0	8.0	6.5	5.0	1.5	1.5	3.0	3.0	2.5	2.5
13	12.5	12.5	8.0	7.5	5.5	5.0	2.0	1.5	3.0	3.0	2.5	2.5
14	12.5	12.0	8.0	7.5	5.0	5.0	3.0	2.0	3.0	3.0	2.5	2.5
15	12.5	12.0	7.5	7.5	5.5	5.0	4.0	3.0	3.0	3.0	3.0	2.5
16	12.5	12.5	7.5	7.0	5.0	5.0	4.5	4.0	3.0	3.0	3.0	2.5
17	13.0	12.0	7.5	7.0	6.0	5.0	5.0	4.5	3.0	3.0	3.0	3.0
18	13.0	12.0	7.0	7.0	5.5	5.0	4.5	3.5	3.0	3.0	3.0	2.5
19	12.5	12.5	7.0	7.0	5.0	5.0	3.5	3.0	3.0	3.0	3.0	2.5
20	12.5	12.0	7.0	7.0	6.0	5.0	3.0	3.0	3.0	3.0	3.0	2.5
21	12.5	12.5	7.0	7.0	5.5	5.0	3.0	3.0	3.0	3.0	3.0	2.5
22	13.0	12.5	7.0	7.0	5.0	5.0	3.0	3.0	3.0	2.5	3.0	3.0
23	13.0	12.5	7.0	7.0	5.0	5.0	3.0	3.0	3.0	2.5	3.0	2.5
24	12.5	12.0	6.5	6.5	5.0	5.0	3.0	3.0	3.0	2.5	3.0	2.5
25	12.5	12.0	7.0	6.5	5.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0
26	12.5	12.0	6.5	6.5	4.5	4.5	3.0	3.0	3.0	2.5	3.5	3.0
27	12.5	12.0	7.0	6.5	5.0	4.5	3.0	3.0	2.5	2.5	3.5	3.0
28	12.5	11.5	6.5	6.5	5.0	4.5	3.0	3.0	2.5	2.5	3.5	3.0
29	12.0	11.5	6.5	6.0	5.5	4.5	3.0	3.0	---	---	4.0	3.0
30	12.0	12.0	6.5	6.5	4.5	4.5	3.5	3.0	---	---	4.0	3.0
31	12.0	10.5	---	---	4.5	4.5	3.0	3.0	---	---	3.0	2.5
MONTH	13.0	10.5	11.0	6.0	6.5	4.5	5.0	1.5	3.0	2.5	4.0	2.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	3.0	4.5	4.0	7.5	6.5	8.5	8.0	10.0	9.5	11.0	10.5
2	3.0	2.5	5.0	4.0	6.5	5.5	8.5	8.0	10.0	9.5	11.0	10.5
3	3.0	2.5	5.0	4.5	7.0	6.0	8.5	8.0	10.5	9.5	11.0	10.5
4	3.0	2.5	5.0	4.0	7.0	5.5	9.0	8.0	10.0	9.5	11.0	10.5
5	3.5	3.0	5.0	4.5	7.5	6.5	8.5	8.0	10.0	9.5	11.0	10.5
6	3.5	3.0	4.5	4.0	7.5	6.5	8.5	8.0	10.0	10.0	11.0	10.5
7	3.0	3.0	5.5	4.5	7.0	6.5	8.5	8.0	10.0	10.0	11.0	11.0
8	3.5	3.0	5.0	4.5	7.0	6.5	8.5	7.5	10.0	10.0	11.0	11.0
9	3.5	3.0	5.0	4.0	7.0	6.0	8.5	7.5	10.0	9.5	11.0	11.0
10	3.0	2.5	5.0	4.0	7.0	6.5	8.0	8.0	10.0	9.5	11.5	11.0
11	3.0	3.0	5.0	4.5	7.0	6.0	8.5	8.0	10.0	10.0	11.5	11.0
12	3.0	3.0	4.5	4.0	7.0	6.0	8.5	8.0	10.0	10.0	11.5	11.0
13	3.5	3.0	5.0	4.5	8.5	6.5	9.0	8.5	10.0	10.0	12.0	11.0
14	4.0	3.5	5.5	4.5	8.0	7.0	9.0	8.5	10.0	9.5	12.0	12.0
15	4.0	3.5	5.5	4.5	8.5	7.0	9.0	9.0	10.0	9.5	12.0	11.5
16	3.5	3.0	5.0	4.5	8.5	7.0	9.5	8.5	10.0	9.5	11.5	11.5
17	4.0	3.5	4.5	4.5	8.5	7.0	9.0	8.5	10.0	9.5	11.5	11.5
18	4.0	4.0	5.0	4.5	10.0	6.0	9.0	8.5	10.0	9.5	12.0	11.5
19	4.0	3.5	5.0	4.5	9.0	6.5	9.5	9.0	10.0	9.5	12.0	11.5
20	3.5	3.5	5.0	4.5	7.5	6.5	9.0	8.5	10.0	10.0	12.0	11.5
21	4.5	3.5	5.5	4.5	7.5	7.0	9.0	8.5	10.0	10.0	12.0	12.0
22	4.5	3.5	5.5	5.0	8.0	7.0	9.0	8.5	10.0	10.0	12.0	12.0
23	3.5	3.5	5.5	5.0	8.0	7.0	9.5	8.5	10.5	10.0	12.0	12.0
24	4.0	3.5	5.5	5.0	8.0	7.0	9.5	9.0	10.5	10.0	12.0	12.0
25	4.0	3.5	5.5	5.0	7.5	7.0	9.5	9.0	10.5	10.0	12.0	12.0
26	4.5	4.0	6.0	5.0	8.0	7.0	9.5	9.0	10.5	10.5	12.0	12.0
27	4.0	4.0	6.0	5.5	8.0	7.0	9.5	9.0	10.5	10.0	12.0	12.0
28	4.0	4.0	6.0	5.0	8.0	7.5	10.0	9.0	10.5	10.0	12.0	12.0
29	4.5	4.0	7.5	6.0	8.5	8.0	10.0	9.0	10.5	10.0	12.0	12.0
30	5.0	4.5	7.0	6.0	8.5	8.5	10.0	9.5	10.5	10.0	12.0	12.0
31	---	---	7.5	6.5	---	---	10.0	9.5	10.5	10.0	---	---
MONTH	5.0	2.5	7.5	4.0	10.0	5.5	10.0	7.5	10.5	9.5	12.0	10.5

WILLAMETTE RIVER BASIN

14181900 LITTLE NORTH SANTIAM RIVER ABOVE EVANS CREEK, NEAR GATES, OREG.

LOCATION.--Lat 44°45'06", long 122°21'23", in SW 1/4 sec.22, T.8 S., R.4 E., Marion County, and at mile 16.1 (25.9 km).

DRAINAGE AREA.--53.1 mi² (137.5 km²).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 29...	1045	--	7.3	7.9	11.5	23	5	86	0
DEC. 03...	1100	700	5.4	7.8	11.7	19	2	70	10
JAN. 14...	1600	4000	4.9	7.5	11.9	32	4	42	8
FEB. 26...	1300	600	4.5	7.4	11.5	24	4	0	2
APR. 08...	1530	--	5.8	--	12.2	18	5	30	0
MAY 21...	1200	--	6.5	--	8.8	21	0	260	2
JULY 01...	1745	--	9.5	6.7	8.5	14	5	10	4
AUG. 21...	1500	--	14.7	7.8	7.1	34	6	40	0

DATE	DIS- SOLVED SILICA (SIO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 29...	6.2	2.7	.4	1.1	.3	11	0	2.0	.6	.1

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
OCT. 29...	.00	19	.03	8	0	.00	0	0	0

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PR) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 29...	0	0	3	170	2	0	30	30	.0

WILLAMETTE RIVER BASIN

67

14184600 SOUTH SANTIAM RIVER ABOVE CASCADIA, OREG.

LOCATION.--Lat 44°24'06", long 122°26'07", in NW¼ sec.34, T.13 S., R.3 E., Linn County, 0.1 mi (0.2 km) upstream from Moose Creek, at bridge on Moose Mountain road, and at mile 52.4 (84.3 km).

DRAINAGE AREA.--84.5 mi² (218.9 km²).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 30...	1615	8.3	8.2	10.9	41	7	588	15
DEC. 05...	1630	5.9	8.0	11.6	33	3	245	0
JAN. 15...	1500	5.3	--	12.0	19	150	172	34
FEB. 27...	1600	4.5	7.5	11.0	30	8	73	0
APR. 09...	1530	5.4	--	12.0	26	7	112	2
MAY 22...	1600	8.5	--	11.5	31	0	190	2
JULY 10...	1700	11.8	7.4	8.4	33	5	190	4
AUG. 22...	1500	16.0	8.4	8.8	50	5	26	--

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 30...	14	4.0	1.0	3.5	.4	23	0	1.6	1.1	.0

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
OCT. 30...	.02	37	.05	14	0	.02	0	0	0

DATE	HEXA- VALENT CHRO- MIUM (CR ₆) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 30...	0	0	1	70	2	0	20	10	.0

WILLAMETTE RIVER BASIN

14185000 SOUTH SANTIAM RIVER BELOW CASCADIA, OREG.

LOCATION.--Lat 44°23'30", long 122°29'50", in SW¼ sec.31, T.13 S., R.3 W., Linn County, temperature recorder 0.7 mi (1.1 km) upstream from gaging station on left bank, 1.0 mi (1.6 km) southwest of Cascadia, and at mile 49.2 (79.2 km).

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--Chemical analyses: September 1971 to January 1972.

Water temperatures: June 1962 to July 1967, February 1969 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.5°C July 30; minimum, freezing point Jan. 6, 7.

Period of record:

Water temperatures (1962-66, 1969-74): Maximum, 25.0°C July 30, Aug. 7, 1965; minimum, freezing point Dec. 7-16, 1972, Jan. 8, 9, 1973, Jan. 6, 7, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	9.0	7.0	7.0	6.5	4.5	2.5	6.0	5.0	5.5	3.0
2	10.5	9.5	7.0	6.0	6.5	6.5	3.0	2.0	5.5	4.5	5.0	3.5
3	9.5	8.5	6.0	5.5	6.5	6.0	3.0	1.5	6.0	3.5	4.5	3.5
4	9.0	8.5	6.0	5.0	6.0	6.0	1.5	1.0	6.0	4.5	5.5	3.0
5	9.5	9.0	5.5	4.0	6.0	5.5	1.5	0.5	5.5	4.5	5.5	4.0
6	10.5	9.5	6.5	5.5	6.0	5.5	1.5	0.0	4.5	3.5	5.0	4.0
7	10.5	10.0	7.0	6.5	6.0	5.5	1.0	0.0	4.5	3.5	4.5	3.5
8	10.0	7.5	7.5	7.0	5.5	5.0	1.5	0.5	5.0	3.5	4.5	3.0
9	9.0	8.5	8.0	7.5	5.5	5.0	1.0	0.5	5.0	3.5	6.0	3.5
10	9.0	8.0	8.5	8.0	6.0	5.0	1.5	0.5	5.0	3.5	5.5	4.0
11	10.5	9.0	8.5	8.5	6.0	5.5	2.0	0.5	5.0	4.0	5.5	4.5
12	11.0	10.5	8.5	8.0	6.0	5.0	3.0	2.0	5.0	4.5	5.0	3.5
13	12.0	11.0	8.0	7.5	5.5	5.0	4.5	3.0	5.5	3.5	5.0	2.0
14	12.0	11.0	7.5	7.0	6.5	5.0	4.5	4.5	6.0	4.5	5.5	4.0
15	11.0	9.5	8.0	7.0	6.5	5.5	6.5	5.0	6.0	4.0	6.0	4.5
16	10.5	9.0	8.0	7.5	7.0	6.5	6.5	6.0	5.5	4.5	6.0	5.0
17	10.0	9.0	7.0	7.0	6.5	6.0	6.0	5.0	5.5	3.5	6.0	4.5
18	10.0	9.5	7.0	6.0	6.0	5.0	7.0	5.5	5.5	4.5	6.0	4.0
19	10.5	10.0	6.0	5.5	7.0	5.5	6.5	5.0	5.5	4.0	6.5	4.0
20	11.5	10.5	6.0	6.0	7.0	6.5	5.0	4.5	5.5	4.5	6.0	3.5
21	11.5	11.0	6.0	5.0	6.5	6.0	5.0	3.5	5.5	4.5	6.5	3.5
22	11.0	10.5	6.0	5.5	6.0	6.0	5.5	4.0	4.5	3.5	6.0	3.5
23	10.5	9.5	6.0	6.0	6.5	5.5	5.5	5.0	4.5	3.5	6.5	4.0
24	10.5	10.0	6.5	6.0	7.0	5.5	5.5	4.5	5.5	3.5	6.5	4.0
25	9.5	9.0	6.5	6.0	6.5	5.0	5.5	5.0	5.5	5.0	7.0	5.0
26	9.0	8.0	6.5	5.0	6.0	5.0	5.5	4.5	5.5	3.0	7.0	5.0
27	9.0	8.5	7.0	6.5	6.0	6.0	5.5	4.5	4.5	3.0	6.5	5.5
28	10.0	9.0	7.0	6.5	6.5	6.0	5.5	5.0	5.0	3.5	5.5	4.5
29	10.0	9.0	7.0	6.5	6.5	5.5	6.0	5.0	---	---	6.5	4.5
30	9.5	9.0	7.0	6.5	5.5	5.5	6.0	5.5	---	---	5.5	5.0
31	10.0	9.5	---	---	5.5	4.5	6.0	5.5	---	---	5.5	4.5
MONTH	12.0	7.5	9.0	4.0	7.0	4.5	7.0	0.0	6.0	3.0	7.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	4.5	---	---	11.5	6.0	15.5	11.5	21.5	18.0	20.0	17.0
2	5.5	4.0	---	---	11.5	7.0	14.0	10.0	21.5	18.5	20.5	17.5
3	6.0	4.0	---	---	10.0	7.5	15.0	11.0	22.0	18.5	19.5	17.0
4	6.0	4.5	---	---	9.0	7.0	15.0	12.0	22.0	19.0	19.0	17.0
5	6.5	5.5	---	---	7.0	6.5	15.0	13.0	21.0	19.5	19.0	15.0
6	6.0	5.0	---	---	7.5	6.5	14.5	11.5	20.0	17.5	19.0	15.5
7	7.0	5.0	---	---	8.5	6.0	14.0	11.5	19.0	16.5	19.0	15.5
8	6.5	5.0	---	---	10.5	5.0	14.0	12.5	19.0	15.5	18.5	16.0
9	---	4.5	---	---	11.5	7.0	13.5	11.0	19.5	16.0	17.5	16.0
10	---	---	---	---	12.5	8.0	12.0	10.5	20.5	17.0	17.0	15.0
11	---	---	---	---	12.0	8.0	12.5	10.5	19.5	17.0	16.5	13.5
12	---	---	---	---	13.0	8.5	14.5	10.5	19.0	16.0	16.5	13.5
13	---	---	---	---	13.0	8.5	16.0	12.0	16.5	15.0	16.5	12.5
14	---	---	---	---	11.5	8.5	16.5	14.0	17.0	13.5	15.5	12.5
15	---	---	---	---	10.5	8.5	15.5	13.5	18.0	14.5	16.5	13.0
16	---	---	---	---	12.5	8.5	14.0	12.0	19.0	15.5	17.0	13.0
17	---	---	---	---	13.0	9.5	14.5	13.5	19.0	16.5	17.0	13.0
18	---	---	---	---	13.5	10.0	15.0	14.0	17.5	15.5	17.0	12.5
19	---	---	---	---	11.5	10.0	16.5	14.5	16.0	14.5	17.5	13.5
20	---	---	---	---	13.0	9.0	18.5	15.0	17.0	14.0	18.0	14.0
21	---	---	---	---	14.0	9.5	18.0	15.5	17.5	14.5	17.5	14.0
22	---	---	9.0	---	13.0	10.5	17.5	15.0	17.5	15.5	18.0	13.5
23	---	---	9.0	6.0	13.5	10.0	18.5	16.0	20.0	17.0	17.0	13.5
24	---	---	8.0	7.0	13.5	9.5	18.5	15.0	19.5	17.0	17.0	13.5
25	---	---	11.0	7.5	13.0	9.5	19.0	15.5	21.0	17.0	16.5	13.5
26	---	---	10.5	7.5	11.0	7.5	19.0	16.0	21.0	17.5	15.5	12.0
27	---	---	10.5	6.5	12.5	9.5	20.0	16.5	21.0	18.0	15.0	11.5
28	---	---	9.0	5.5	14.5	9.5	21.5	17.5	21.0	18.0	14.0	10.5
29	---	---	8.0	6.5	16.0	11.5	22.0	19.0	19.5	17.5	13.0	9.5
30	---	---	9.5	5.5	16.5	13.0	22.5	19.0	18.5	17.5	13.0	10.0
31	---	---	10.5	6.0	---	---	22.0	18.5	18.5	17.5	---	---
MONTH	---	---	---	---	16.5	5.0	22.5	10.0	22.0	13.5	20.5	9.5

WILLAMETTE RIVER BASIN

69

14185800 MIDDLE SANTIAM RIVER NEAR CASCADIA, OREG.

LOCATION.--Lat 44°30'55", long 122°22'15", in NE¼ sec.19, T.12 S., R.4 E., Linn County, temperature recorder at gaging station on right bank, 5.6 mi (9.0 km) downstream from Bear Creek, 10 mi (16 km) northeast of Cascadia, and at mile 17.5 (28.2 km).

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1974.

Water temperatures: August 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 19.5°C July 29, 30, Aug. 3, 4; minimum, 2.0°C Jan. 5-11.

Period of record:

Water temperatures: Maximum, 21.5°C Aug. 8, 1972; minimum, 0.5°C Dec. 23, 24, 1965.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 31...	1100	1140	8.5	7.8	10.5	33	24	166	96
DEC. 05...	1315	940	5.1	8.1	11.6	47	4	20	4
JAN. 16...	1200	5850	5.0	7.7	--	25	150	120	12
APR. 09...	1430	1090	4.5	--	12.0	30	10	20	0
MAY 22...	1130	760	7.0	--	9.8	34	3	80	10
JULY 10...	1450	270	11.7	7.7	8.7	31	6	40	0
AUG. 22...	1340	76	14.8	8.1	8.9	54	5	18	--

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 31...	1140	8.9	3.6	.7	1.6	.4	15	0	3.0	.6

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
OCT. 31...	.1	.00	26	80.0	.04	12	0	.01	1	0

DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED CORALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
OCT. 31...	0	0	0	2	30	2	0	30	30	.0

WILLAMETTE RIVER BASIN

14185800 MIDDLE SANTIAM RIVER NEAR CASCADIA, OREG.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	9.5	8.0	5.5	5.5	5.5	4.0	5.0	5.0	4.5	4.0
2	11.0	10.0	8.0	7.0	5.5	5.5	4.5	4.0	5.0	5.0	4.0	3.5
3	10.0	9.5	7.0	6.5	5.5	5.5	4.0	3.5	5.0	5.0	4.0	3.5
4	10.0	9.5	6.5	5.0	5.5	5.5	3.5	3.0	5.0	4.0	4.0	3.5
5	10.0	9.5	5.5	5.0	5.5	5.5	3.0	2.0	4.5	4.0	4.0	4.0
6	10.5	10.0	5.5	5.0	5.5	5.5	2.0	2.0	4.5	4.0	4.5	4.0
7	10.5	10.0	6.0	5.5	5.5	5.5	2.0	2.0	4.0	4.0	4.5	4.0
8	10.0	9.5	6.5	6.0	5.5	5.5	2.0	2.0	4.5	4.0	4.0	3.5
9	9.5	9.0	7.0	6.5	5.5	5.5	2.0	2.0	4.5	4.5	4.5	4.0
10	9.5	9.0	7.0	7.0	5.5	5.5	2.0	2.0	4.5	4.0	4.5	4.5
11	10.5	9.5	7.0	7.0	5.5	5.5	3.5	2.0	4.5	4.5	4.5	4.5
12	10.5	10.0	7.0	7.0	5.5	5.0	3.5	3.5	4.5	4.5	4.5	4.0
13	11.0	10.5	7.0	7.0	5.0	5.0	4.0	3.5	4.5	4.5	4.0	3.5
14	11.0	10.5	7.0	7.0	5.0	5.0	5.0	4.0	4.5	4.0	4.0	4.0
15	10.5	10.0	7.0	7.0	5.5	5.0	5.5	5.0	4.5	4.5	4.5	4.0
16	10.0	10.0	7.0	7.0	5.5	5.5	5.5	5.0	4.5	4.5	4.5	4.5
17	10.0	10.0	7.0	7.0	5.5	5.5	5.0	5.0	4.5	4.5	5.0	4.5
18	10.5	10.0	7.0	6.0	5.5	5.5	5.5	5.0	4.5	4.0	5.0	4.5
19	10.0	10.0	6.0	6.0	5.5	5.5	5.5	5.5	4.5	4.5	5.0	4.5
20	10.5	10.0	6.0	5.0	5.5	5.5	5.5	5.0	4.5	4.5	4.5	4.0
21	10.5	10.5	5.0	5.0	5.5	5.5	5.0	4.5	4.5	4.5	5.0	4.5
22	10.5	10.5	5.5	5.0	5.5	5.5	4.5	4.0	4.5	4.0	5.0	4.5
23	10.5	10.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.0	5.0	4.5
24	10.5	9.5	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.0	5.5	4.5
25	9.5	9.5	5.5	5.0	5.5	5.5	4.5	4.5	4.5	4.5	5.5	5.0
26	9.5	8.5	5.5	5.0	5.5	5.0	4.5	4.5	4.5	3.5	5.5	5.0
27	9.0	8.5	5.5	5.5	5.5	5.5	4.5	4.0	4.0	3.5	5.5	5.5
28	9.5	9.0	5.5	5.5	6.0	5.5	4.5	4.5	4.0	4.0	5.5	5.5
29	9.5	9.0	5.5	5.5	6.0	6.0	5.0	4.5	---	---	5.5	5.0
30	9.0	9.0	5.5	5.5	6.0	6.0	5.0	4.5	---	---	5.5	5.5
31	9.5	9.0	---	---	6.0	5.5	5.0	4.5	---	---	5.5	5.0
MONTH	12.0	8.5	9.5	5.0	6.0	5.0	5.5	2.0	5.0	3.5	5.5	3.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	5.0	7.0	6.0	10.0	7.0	14.0	10.5	19.0	16.5	19.0	16.5
2	5.0	4.5	7.0	5.5	10.0	7.0	12.0	10.0	19.0	16.5	17.0	16.0
3	5.0	4.5	8.0	6.0	9.0	7.0	13.5	10.5	19.5	17.0	18.0	16.0
4	5.0	5.0	8.5	6.0	9.0	7.0	13.5	11.0	19.5	18.0	18.5	15.5
5	5.0	5.0	8.5	6.0	7.0	6.5	13.0	11.5	19.0	18.0	15.5	13.5
6	5.5	5.0	8.0	6.5	7.0	6.5	13.0	10.5	18.5	16.5	16.0	14.0
7	6.0	5.5	8.0	6.0	7.0	6.0	13.0	11.0	17.0	15.0	15.5	14.0
8	6.0	5.5	8.0	6.5	9.0	6.0	13.0	11.5	16.5	14.5	15.5	14.5
9	5.5	4.5	7.0	6.0	10.0	6.5	12.0	10.5	17.0	14.5	15.0	14.0
10	5.0	4.5	6.0	5.5	10.5	7.0	11.0	10.0	18.0	15.5	14.0	13.0
11	5.0	5.0	6.5	6.0	10.5	8.0	11.0	10.5	18.0	15.5	13.5	11.5
12	5.0	4.5	6.0	5.5	10.5	8.0	13.5	10.0	16.5	15.0	13.5	11.5
13	5.5	4.5	5.5	5.0	11.0	8.0	14.5	11.0	15.0	13.5	13.0	11.0
14	6.0	5.0	5.5	5.0	10.5	8.5	15.0	13.0	15.5	13.0	13.5	11.0
15	6.0	5.5	5.0	5.0	10.5	8.5	14.5	13.0	16.0	14.0	13.5	11.5
16	6.5	5.5	5.5	4.5	11.0	8.5	13.0	11.0	16.5	14.5	13.5	11.5
17	6.5	5.5	5.5	5.0	11.5	8.5	13.0	12.0	17.0	15.0	13.5	11.5
18	6.5	6.0	5.5	5.5	11.5	9.0	15.5	12.0	16.5	14.5	14.0	11.5
19	6.0	5.5	6.5	5.5	11.0	9.0	16.5	14.0	14.5	13.5	14.0	12.0
20	6.0	5.5	6.5	6.0	11.0	9.0	16.5	14.0	14.5	13.0	14.0	12.0
21	7.0	5.5	8.0	5.5	12.0	9.0	16.5	14.5	15.5	13.5	14.0	12.0
22	7.0	6.0	8.0	7.0	12.0	9.5	16.5	14.5	15.5	14.5	14.0	12.0
23	6.0	5.5	8.5	6.5	11.5	9.5	17.0	14.5	17.0	15.5	14.0	12.0
24	6.5	5.5	8.5	6.5	11.5	9.0	17.0	14.5	17.0	15.5	13.5	11.5
25	6.5	5.5	9.0	6.5	11.5	9.0	17.0	14.5	18.0	15.5	13.0	11.5
26	6.0	5.0	9.0	7.0	10.0	8.5	17.0	15.0	18.5	16.0	13.0	11.5
27	6.0	5.5	9.0	6.5	11.0	9.5	18.0	15.5	18.5	16.5	11.5	10.5
28	6.5	6.0	8.5	6.0	13.0	9.5	19.0	16.5	19.0	16.5	11.0	9.5
29	8.0	5.5	8.5	6.5	14.0	10.5	19.5	18.0	19.0	16.5	10.5	9.5
30	7.0	6.0	8.5	6.0	14.5	11.0	19.5	17.0	18.0	16.5	10.5	10.0
31	---	---	9.5	6.5	---	---	19.0	17.0	18.5	16.5	---	---
MONTH	8.0	4.5	9.5	4.5	14.5	6.0	19.5	10.0	19.5	13.0	19.0	9.5

14185900 QUARTZVILLE CREEK NEAR CASCADIA, OREG.

LOCATION.--Lat 44°32'25", long 122°26'05", in NW¼ sec.10, T.12 S., R.3 E., Linn County, temperature recorder at gaging station on right bank, 80 ft (24 m) downstream from Panther Creek, 10 mi (16 km) north of Cascadia, and at mile 6.6 (10.6 km).

DRAINAGE AREA.--99.2 mi² (256.9 km²).

PERIOD OF RECORD.--Water temperatures: August 1963 to November 1964, October 1965 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 23.5°C July 30; minimum, freezing point Jan. 4-11.

Period of record:

Water temperatures: Maximum, 25.5°C Aug. 10, 11, 1971; minimum, freezing point on several days in 1969, 1972, and 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	8.0	6.0	5.5	5.0	3.0	1.5	5.0	4.5	4.5	3.5
2	9.5	8.0	6.0	5.5	5.5	5.0	1.5	0.5	5.0	4.0	4.5	3.0
3	9.5	7.0	5.5	4.5	5.0	4.5	1.0	0.5	5.5	4.0	3.5	3.0
4	9.5	7.5	4.5	3.5	5.0	4.5	0.5	0.0	5.0	3.5	3.5	2.5
5	9.5	7.5	4.5	3.5	5.0	4.5	0.0	0.0	4.5	3.5	4.0	3.5
6	10.0	9.0	5.0	4.0	5.0	4.5	0.0	0.0	4.0	3.0	5.0	4.0
7	9.5	8.0	6.0	5.0	5.5	5.0	0.0	0.0	4.0	3.0	4.0	2.5
8	9.0	7.5	6.0	5.5	5.0	4.5	0.5	0.0	4.5	3.0	4.5	2.5
9	9.0	7.0	7.0	6.0	5.0	4.5	0.0	0.0	4.5	3.0	5.5	3.5
10	9.0	7.0	7.5	7.0	5.0	4.5	0.0	0.0	4.5	3.0	5.0	4.0
11	10.0	8.5	7.5	7.0	5.0	4.5	1.0	0.0	4.5	3.0	5.0	4.0
12	10.5	9.5	7.0	6.5	5.0	3.5	1.5	1.0	4.5	4.0	4.5	3.0
13	11.0	10.0	6.5	6.0	4.5	3.5	4.0	1.5	4.5	4.0	4.5	3.0
14	10.5	9.0	6.0	5.5	4.5	4.5	5.0	4.0	4.5	3.0	5.0	3.5
15	10.0	9.0	7.0	6.0	5.5	4.5	5.5	5.0	5.0	3.5	6.0	4.0
16	10.5	9.0	7.0	6.0	5.5	5.5	5.5	5.0	4.5	4.0	5.0	4.5
17	10.5	9.0	6.0	5.5	5.5	5.0	5.0	4.5	5.0	4.0	5.5	4.5
18	10.5	9.0	5.5	5.0	5.0	4.5	6.0	4.5	4.5	3.0	---	---
19	10.0	9.5	5.5	4.5	5.5	4.5	5.5	4.5	4.5	4.0	---	---
20	10.5	10.0	5.0	3.5	5.5	5.5	4.5	4.0	4.5	4.0	---	---
21	10.5	9.5	4.5	3.5	5.5	5.0	4.0	3.5	4.5	3.0	---	---
22	10.0	9.0	5.0	3.5	5.0	4.5	4.0	3.0	3.5	3.0	---	---
23	10.0	9.0	4.5	4.0	5.5	4.5	4.5	3.5	4.5	3.0	---	---
24	9.0	8.5	5.0	4.5	6.0	4.5	5.0	4.0	5.0	3.0	---	---
25	8.5	7.5	4.5	4.5	5.0	4.0	5.0	4.5	4.5	4.0	---	---
26	8.5	6.5	5.0	4.0	5.0	4.0	4.5	4.0	4.5	2.5	---	---
27	9.0	7.0	5.0	4.5	5.5	5.0	4.0	3.0	4.0	2.5	---	---
28	9.0	8.5	5.5	4.5	5.0	4.5	4.5	4.0	4.0	3.0	---	---
29	9.0	8.0	5.0	4.5	5.5	4.5	5.0	4.5	---	---	---	---
30	9.0	8.0	5.5	5.0	4.5	4.0	5.0	4.5	---	---	---	---
31	9.5	8.5	---	---	4.5	3.0	5.0	4.5	---	---	---	---
MONTH	11.0	6.5	8.0	3.5	6.0	3.0	6.0	0.0	5.5	2.5	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	6.0	5.0	12.0	6.5	14.5	11.5	22.5	18.5	20.5	18.0
2	---	---	8.5	4.5	11.0	6.5	15.0	10.5	22.5	18.5	20.0	17.5
3	---	---	9.5	5.0	10.5	7.0	16.5	11.0	23.0	18.5	19.5	17.5
4	---	---	10.0	4.5	8.5	6.5	16.0	12.5	23.0	19.5	18.0	17.0
5	---	---	10.0	5.5	6.5	6.0	15.0	12.5	22.0	19.5	18.5	15.0
6	---	---	9.0	5.5	8.0	6.0	15.0	11.5	21.0	18.0	18.5	15.5
7	---	---	9.0	5.5	9.0	5.5	15.0	11.5	20.0	16.0	18.5	15.5
8	---	---	9.5	6.0	11.0	5.5	15.5	13.0	20.0	15.5	18.0	16.5
9	---	---	6.5	5.5	12.0	6.5	13.5	11.0	20.5	16.0	17.5	16.0
10	6.0	---	6.5	5.0	13.0	7.0	12.5	10.5	20.5	16.5	16.5	15.0
11	6.0	5.5	6.5	5.5	12.0	7.5	14.0	10.0	20.5	16.5	16.5	13.5
12	6.5	4.5	6.0	4.5	13.0	7.5	15.5	10.5	19.0	16.0	15.5	13.5
13	7.5	3.5	6.5	4.0	13.5	8.0	17.0	11.5	17.0	15.0	15.5	12.5
14	8.5	4.5	5.5	4.0	13.0	8.0	17.5	13.0	18.0	14.0	16.0	12.5
15	6.5	5.5	5.5	4.0	11.5	8.5	16.0	13.5	18.5	14.5	16.0	13.0
16	9.0	5.0	6.0	3.5	13.5	9.0	15.0	12.0	19.5	15.0	16.0	13.0
17	9.0	5.0	7.5	4.0	14.5	9.0	14.5	13.5	19.5	16.0	16.5	13.5
18	7.0	6.0	6.0	5.0	14.0	9.5	17.0	13.5	18.0	15.5	16.5	13.5
19	6.0	5.0	6.5	5.0	12.5	10.0	19.0	15.0	15.5	14.5	17.0	14.0
20	7.0	5.0	7.0	5.5	14.0	9.0	19.5	15.5	17.0	14.0	17.0	14.5
21	9.5	5.0	9.5	4.5	15.0	9.5	19.5	16.0	17.5	13.5	17.0	14.5
22	7.5	6.0	8.5	6.5	13.0	10.5	19.0	15.5	18.5	15.5	17.0	14.5
23	---	5.0	7.0	5.5	14.5	10.0	20.0	16.5	19.5	16.5	17.0	14.5
24	7.5	6.0	7.5	6.5	14.5	9.5	20.0	16.0	20.0	16.5	16.5	14.0
25	6.5	4.5	10.0	6.5	13.0	9.5	20.0	15.5	20.5	16.5	16.5	14.0
26	6.0	4.0	10.5	7.0	11.5	8.5	20.5	16.5	21.0	17.0	15.5	14.0
27	6.0	5.0	10.5	6.0	13.0	10.0	21.5	17.0	20.5	17.5	14.0	12.0
28	7.5	5.0	9.0	5.0	15.5	10.0	22.0	18.0	21.0	18.0	14.0	12.0
29	9.5	4.5	7.0	6.0	17.5	11.5	23.0	19.5	21.0	18.5	14.0	11.5
30	8.0	5.5	10.5	5.0	17.5	12.5	23.5	19.5	19.5	18.0	13.5	11.5
31	---	---	11.5	6.0	---	---	22.5	18.5	20.0	18.0	---	---
MONTH	---	---	11.5	3.5	17.5	5.5	23.5	10.0	23.0	13.5	20.5	11.5

WILLAMETTE RIVER BASIN

14187200 SOUTH SANTIAM RIVER NEAR FOSTER, OREG.

LOCATION.--Lat 44°24'45", long 122°41'15", in SE 1/4 sec.28, T.13 S., R.1 E., Linn County, temperature recorder at gaging station on left bank, 0.6 mi (1.0 km) downstream from Wiley Creek, and at mile 37.0 (59.5 km).

DRAINAGE AREA.--557 mi² (1,443 km²).

PERIOD OF RECORD.--Water temperatures: July 1973 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 14.5°C July 29, Aug. 9, 10; minimum, 3.0°C Jan. 7, 12, 13.

Period of record:

Water temperatures: Maximum, 14.5°C July 29, Aug. 9, 10, 1974; minimum, 3.0°C Jan. 7, 12, 13, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.5	8.5	---	---	6.0	5.5	6.0	6.0	6.5	5.0
2	---	---	8.5	8.5	---	---	6.0	5.5	6.0	5.5	5.5	4.5
3	---	---	8.5	8.0	---	---	5.5	5.0	6.0	5.5	5.5	4.5
4	---	---	8.5	7.5	6.0	6.0	5.0	3.5	5.5	5.5	5.5	5.0
5	---	---	7.5	7.0	6.5	6.0	3.5	3.5	5.5	5.5	5.5	5.0
6	---	---	7.5	7.0	6.5	6.0	3.5	3.5	5.5	5.0	5.5	4.5
7	---	---	7.5	7.5	7.0	6.5	3.5	3.0	5.5	5.0	5.5	4.5
8	---	---	7.5	7.5	7.0	6.5	3.5	3.5	5.0	5.0	5.5	4.0
9	---	---	8.0	---	6.5	5.5	3.5	3.5	5.0	4.5	6.5	5.0
10	---	---	---	---	6.5	6.5	3.5	3.5	5.5	5.0	6.5	5.5
11	---	---	---	---	6.5	6.5	3.5	3.5	5.0	5.0	6.5	5.5
12	---	---	---	---	6.5	6.5	3.0	3.0	5.0	5.0	5.5	5.5
13	---	---	7.5	7.5	6.5	6.5	4.5	3.0	5.0	5.0	6.0	4.5
14	---	---	7.5	7.0	6.5	6.5	5.0	4.5	6.0	5.0	6.0	6.0
15	---	---	8.0	7.5	6.5	6.5	6.5	5.5	6.0	6.0	7.0	6.0
16	---	---	8.0	7.5	7.0	6.5	6.5	6.0	6.0	6.0	8.0	6.5
17	---	---	7.0	7.0	7.0	7.0	6.5	5.5	5.5	5.5	7.5	6.5
18	---	---	7.0	7.0	7.0	6.5	7.0	6.0	6.0	5.5	6.5	6.0
19	---	---	7.0	7.0	6.5	5.5	7.0	6.5	6.0	6.0	7.5	6.0
20	---	---	7.0	7.0	7.0	6.5	6.5	6.0	6.0	5.5	7.0	6.0
21	---	---	7.0	7.0	7.0	7.0	6.0	5.5	6.0	5.5	6.0	5.0
22	---	---	7.0	7.0	7.0	7.0	5.5	5.0	5.5	5.0	6.0	5.0
23	---	---	7.0	7.0	7.0	6.5	5.5	5.5	5.5	5.0	6.0	5.5
24	---	---	---	---	7.0	6.0	5.5	5.5	6.0	5.0	8.5	5.5
25	---	---	---	---	6.5	6.5	5.5	5.5	6.0	6.0	8.0	7.5
26	---	---	---	---	6.5	6.5	5.5	5.5	6.0	6.0	7.5	7.5
27	---	---	---	---	6.5	6.5	5.5	5.5	5.5	5.0	7.5	7.5
28	---	---	---	---	6.5	6.5	5.5	5.5	5.0	5.0	7.5	7.0
29	---	---	---	---	6.5	6.5	5.5	5.5	---	---	7.0	7.0
30	---	---	---	---	6.5	6.5	5.5	5.5	---	---	7.0	7.0
31	---	---	---	---	6.5	6.0	6.0	5.0	---	---	7.0	7.0
MONTH	---	---	---	---	7.0	5.5	7.0	3.0	6.0	4.5	8.5	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	8.5	7.5	10.5	9.5	12.0	11.0	14.0	12.0	13.0	12.0
2	7.0	6.5	9.5	7.0	10.5	10.0	12.5	11.0	14.0	12.0	13.0	12.0
3	6.5	6.5	10.5	7.5	10.5	10.0	12.5	10.5	14.0	12.0	12.5	12.0
4	6.5	6.5	10.5	8.0	10.5	9.5	12.5	11.0	14.0	12.0	13.0	12.0
5	6.5	6.5	11.0	9.0	10.5	9.5	12.0	11.0	13.5	12.0	13.0	12.0
6	6.5	6.5	11.0	9.5	9.5	8.0	12.5	11.0	14.0	12.0	13.0	12.0
7	6.5	6.5	11.0	9.5	10.0	8.0	12.0	11.0	14.0	12.0	12.5	11.5
8	6.5	6.5	10.5	9.0	11.0	8.5	12.5	11.0	14.0	12.0	12.5	12.0
9	6.5	6.0	9.5	8.5	11.0	9.0	11.5	11.0	14.5	12.0	12.5	12.0
10	7.0	5.5	9.5	8.5	11.0	10.0	12.5	11.0	14.5	12.0	12.5	12.0
11	7.0	6.0	9.5	8.5	11.5	10.5	12.5	11.5	14.0	12.5	12.5	11.5
12	7.5	5.0	9.0	8.0	11.5	10.5	13.0	11.0	14.0	12.5	13.0	11.5
13	8.5	5.0	9.0	8.0	12.0	10.5	13.5	11.0	13.0	12.0	12.0	11.0
14	9.5	6.0	9.0	7.5	11.0	10.5	13.5	11.5	13.5	12.0	13.0	11.5
15	7.5	6.5	8.5	7.5	11.0	10.0	13.0	11.5	13.5	12.0	12.0	11.5
16	9.5	6.0	9.0	7.5	11.5	10.0	13.0	11.0	14.0	12.0	12.0	11.5
17	9.0	6.0	8.5	7.0	12.5	10.5	13.0	11.5	14.0	12.0	12.0	11.5
18	8.0	7.0	8.5	7.5	11.5	10.5	12.0	11.5	13.5	12.5	12.0	11.0
19	7.5	6.5	9.0	7.5	11.5	10.5	13.0	11.5	12.5	12.5	11.5	11.0
20	8.0	7.0	10.5	7.5	11.5	10.5	13.5	11.5	14.0	12.0	11.5	11.0
21	9.5	7.0	10.0	8.0	12.5	10.5	14.0	11.5	14.0	12.0	11.5	10.5
22	9.0	7.5	9.5	8.5	11.5	10.5	13.5	11.0	13.5	12.5	11.5	11.0
23	8.0	7.0	10.0	8.5	12.0	10.5	13.5	11.5	14.0	12.5	11.5	11.0
24	8.0	7.0	10.0	9.0	12.0	10.5	14.0	11.5	14.0	12.5	11.5	10.5
25	9.0	7.0	11.0	9.0	12.0	10.5	14.0	11.0	14.0	12.0	11.5	10.5
26	8.5	7.0	11.0	9.5	11.5	10.5	14.0	11.5	14.0	12.0	11.5	10.5
27	8.0	7.0	11.0	9.5	11.5	10.5	14.0	11.5	14.0	12.0	11.5	10.5
28	9.0	6.5	10.5	9.0	12.5	10.5	14.0	12.0	14.0	12.5	11.5	10.5
29	10.5	7.0	10.5	9.0	13.0	11.0	14.5	12.0	13.0	12.0	11.5	10.5
30	9.5	8.0	9.5	8.5	13.0	11.5	14.0	12.0	13.0	12.5	11.5	11.0
31	---	---	10.0	9.0	---	---	14.0	12.0	13.0	12.5	---	---
MONTH	10.5	5.0	11.0	7.0	13.0	8.0	14.5	10.5	14.5	12.0	13.0	10.5

14187500 SOUTH SANTIAM RIVER AT WATERLOO, OREG.

LOCATION.--Lat 44°29'55", long 122°49'20", in SW¼NW¼ sec.28, T.12 S., R.1 W., Linn County, temperature recorder at gaging station on left bank, 600 ft (183 m) downstream from highway bridge at Waterloo, 2.1 mi (3.4 km) upstream from Hamilton Creek, and at mile 23.3 (37.5 km).

DRAINAGE AREA.--640 mi² (1,658 km²).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 19.0°C July 29, 30; minimum, 2.0°C Jan. 8-11.

Period of record:

Water temperatures: Maximum, 26.0°C Aug. 4, 1966; minimum, 1.5°C Dec. 18-20, 1965.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	10.0	9.0	7.0	6.5	5.0	4.5	5.0	4.5	5.5	4.5
2	13.0	10.0	9.5	8.5	7.0	6.5	4.5	4.0	5.0	4.5	5.0	4.0
3	13.0	10.5	9.0	8.0	7.0	6.5	4.5	4.0	4.5	4.0	5.0	4.0
4	12.5	10.0	8.5	8.0	6.5	6.0	4.0	3.0	5.0	4.5	5.0	4.5
5	12.5	10.0	8.0	8.0	6.5	6.0	3.5	3.0	5.0	4.0	5.0	4.5
6	11.5	10.5	8.5	7.5	6.5	6.5	3.0	2.5	5.0	3.5	5.0	4.0
7	12.0	9.5	8.5	8.0	7.0	6.5	3.0	2.5	5.0	4.0	5.0	4.0
8	12.0	10.0	8.5	8.5	6.5	6.0	3.0	2.0	4.5	4.0	5.5	4.0
9	12.0	9.0	9.0	8.0	6.0	5.5	3.0	2.0	4.5	4.0	6.0	4.5
10	12.0	9.0	8.5	8.0	6.0	5.5	3.0	2.0	4.5	4.0	5.5	5.0
11	11.5	10.0	8.5	8.0	6.0	6.0	2.5	2.0	4.5	4.0	6.0	5.0
12	11.0	10.0	8.5	8.0	6.0	6.0	3.5	2.5	4.5	4.0	5.5	4.5
13	11.5	10.0	8.0	7.5	6.0	6.0	3.5	3.0	4.5	4.0	5.5	4.0
14	11.5	9.5	7.5	7.5	6.0	6.0	4.0	3.5	5.0	4.5	5.0	4.5
15	12.0	9.0	8.0	8.0	6.5	6.0	5.5	4.0	5.0	4.5	6.0	5.0
16	11.5	9.5	8.0	7.5	6.5	6.5	5.5	5.5	5.0	4.5	6.0	5.5
17	11.5	9.0	7.5	7.5	6.5	6.5	5.5	5.0	5.0	4.5	6.0	5.0
18	12.0	9.0	7.5	7.0	6.5	6.0	5.5	5.0	5.0	4.5	6.0	5.0
19	10.5	9.5	7.5	7.0	6.0	5.5	5.5	5.0	5.0	4.5	6.5	5.0
20	11.0	10.0	7.5	7.5	6.5	6.0	5.0	4.5	5.0	4.5	6.5	5.0
21	10.5	10.0	7.5	7.0	7.0	6.5	4.5	4.0	5.0	4.5	6.5	5.0
22	11.0	9.5	7.5	7.0	6.0	6.0	4.0	4.0	5.0	4.0	5.5	5.0
23	10.5	9.5	7.5	7.5	6.0	6.0	4.5	4.0	5.0	4.0	5.5	5.5
24	10.5	9.0	7.5	7.0	6.0	5.5	4.5	4.0	5.5	4.0	---	---
25	10.5	9.5	7.0	7.0	6.0	5.5	4.5	4.5	5.5	5.0	---	---
26	10.5	9.0	7.0	7.0	5.5	5.5	4.5	4.0	5.0	4.5	7.0	6.0
27	10.5	9.0	7.5	7.0	5.5	5.5	4.5	4.0	4.5	4.5	---	---
28	10.5	9.5	7.5	7.0	6.0	5.5	4.5	4.5	4.5	4.5	---	---
29	10.5	9.0	7.0	7.0	6.0	5.5	4.5	4.5	---	---	---	---
30	10.5	9.5	7.0	6.5	5.5	5.5	4.5	4.5	---	---	---	---
31	10.5	9.0	---	---	5.5	5.0	5.0	4.5	---	---	---	---
MONTH	13.0	9.0	10.0	6.5	7.0	5.0	5.5	2.0	5.5	3.5	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.5	7.0	12.0	7.5	15.5	12.0	18.0	16.0	16.0	13.0
2	---	---	10.0	7.0	12.0	7.5	15.0	11.0	18.0	16.0	16.0	13.5
3	---	---	11.0	6.5	11.0	8.0	16.5	11.5	18.5	16.0	15.5	13.0
4	---	---	12.0	6.5	9.5	8.5	16.0	13.0	18.5	16.0	14.5	12.5
5	---	---	12.0	7.0	9.5	8.5	15.0	13.0	17.5	15.5	16.0	12.5
6	---	---	11.0	7.5	9.0	7.5	15.0	11.5	17.0	15.5	16.0	12.5
7	---	---	11.5	7.5	10.0	7.0	15.0	13.0	17.5	15.0	16.0	12.5
8	---	---	11.0	8.0	12.0	7.0	14.5	12.5	18.0	15.0	15.5	13.0
9	---	---	9.0	7.5	12.0	7.5	13.0	11.5	18.5	15.5	14.5	13.0
10	---	---	9.5	7.5	13.0	8.0	13.5	11.5	18.5	16.0	15.5	12.0
11	---	---	9.0	7.5	12.5	8.5	15.0	12.5	18.0	16.0	15.0	11.5
12	---	---	9.0	7.5	13.0	9.0	16.5	12.0	17.0	15.0	15.0	11.5
13	---	---	9.5	6.5	13.0	9.0	17.0	13.0	16.0	14.5	15.0	11.5
14	---	---	10.0	7.0	10.5	9.5	17.0	14.0	17.0	13.5	16.0	11.0
15	---	---	9.0	6.5	11.0	9.5	16.0	14.0	17.5	15.0	15.0	11.0
16	9.5	---	9.0	7.0	13.0	9.5	15.0	13.0	17.5	15.0	15.0	11.5
17	9.0	6.5	8.5	6.5	14.5	9.5	15.5	14.5	17.5	15.5	15.0	11.0
18	8.0	7.0	8.0	6.0	14.0	10.0	14.5	14.0	17.0	14.5	15.0	11.0
19	8.0	6.5	8.5	7.0	11.5	10.0	16.0	13.0	14.5	13.5	14.5	11.0
20	8.5	7.5	10.0	6.5	13.5	10.0	18.0	14.0	16.5	13.0	14.5	11.0
21	10.0	7.0	10.0	7.0	14.5	9.5	18.0	15.5	17.5	14.5	14.5	11.0
22	8.5	7.0	9.0	6.5	12.5	10.5	17.5	15.0	17.5	15.5	14.5	11.5
23	8.5	6.5	9.5	6.5	14.5	10.0	17.5	15.5	18.0	16.0	14.5	11.0
24	9.0	6.5	9.5	7.0	15.0	10.5	18.0	14.5	18.0	15.5	14.0	11.0
25	9.5	6.5	10.5	8.0	13.0	10.5	18.5	15.5	18.5	15.5	14.0	11.0
26	9.0	7.0	11.0	8.0	12.5	10.5	18.5	15.5	18.5	16.0	13.5	11.0
27	8.5	7.0	11.0	7.5	13.5	11.0	18.5	15.5	18.5	16.0	13.5	10.0
28	9.0	6.5	10.5	7.0	16.0	10.5	18.5	16.0	18.5	16.0	13.5	10.5
29	11.0	6.5	9.0	7.5	17.0	11.5	19.0	16.0	17.5	15.0	13.5	10.5
30	10.0	7.0	10.5	7.5	17.0	13.0	19.0	16.5	15.0	13.5	13.5	10.5
31	---	---	11.5	6.5	---	---	18.0	16.0	14.5	13.0	---	---
MONTH	---	---	12.0	6.0	17.0	7.0	19.0	11.0	18.5	13.0	16.0	10.0

WILLAMETTE RIVER BASIN

14188800 THOMAS CREEK NEAR SCIO, OREG.

LOCATION.--Lat 44°42'40", long 122°45'45", in SE¼ sec.11, T.10 S., R.1 W., Linn County, temperature recorder at gaging station on left bank, 4.2 mi (6.8 km) east of Scio, and at mile 14.6 (23.5 km).

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.0°C July 30 to Aug. 1, Aug. 3-5; minimum, 1.5°C Jan. 5-12.

Period of record:

Water temperatures: Maximum, 28.0°C Aug. 16, 1967, Aug. 10, 11, 1971; minimum, freezing point Feb. 2, 3, 1972.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	9.5	8.0	8.0	8.0	6.0	5.0	6.0	5.5	5.5	5.5
2	11.0	10.0	8.0	6.0	8.0	8.0	5.0	4.0	6.0	5.5	5.5	5.0
3	10.0	9.0	6.5	5.5	8.0	8.0	4.0	3.0	5.5	5.0	5.5	5.0
4	9.0	9.0	6.5	6.5	8.0	7.0	3.0	3.0	5.5	5.5	5.5	5.0
5	9.5	9.0	6.5	6.5	8.0	7.0	3.0	1.5	5.5	5.5	5.5	5.0
6	10.0	9.5	8.0	6.5	8.5	8.0	1.5	1.5	5.5	5.0	5.0	5.0
7	10.0	9.5	8.0	8.0	8.5	8.0	1.5	1.5	5.0	4.5	5.0	4.5
8	10.0	9.5	8.5	8.0	8.0	8.0	1.5	1.5	5.0	4.5	4.5	4.5
9	9.5	9.0	9.5	8.5	8.0	7.0	1.5	1.5	5.0	4.5	5.0	4.5
10	9.0	8.5	10.0	9.5	8.0	7.0	1.5	1.5	5.0	5.0	5.5	5.0
11	10.0	9.0	10.0	10.0	8.0	8.0	1.5	1.5	5.0	5.0	5.5	5.5
12	10.5	10.0	10.0	9.0	8.0	8.0	3.0	1.5	5.5	5.0	5.5	5.5
13	11.0	10.5	9.0	8.5	8.0	7.0	5.0	3.0	5.5	5.0	5.5	5.0
14	11.5	11.0	8.5	8.5	8.0	8.0	6.0	5.0	5.5	5.0	5.5	5.0
15	11.5	11.0	9.0	8.5	8.5	8.0	7.0	6.0	6.0	5.5	6.0	5.5
16	11.0	11.0	9.0	8.5	8.5	8.5	7.0	6.5	6.0	5.5	6.0	5.5
17	11.0	11.0	8.5	8.5	8.5	8.5	6.5	6.0	5.5	5.5	6.0	5.5
18	11.5	11.0	8.5	8.0	8.5	8.0	7.0	6.0	6.0	5.5	6.0	5.5
19	11.5	11.0	8.0	7.0	8.0	8.0	7.0	6.0	6.0	5.5	6.0	5.5
20	11.5	11.5	8.5	8.0	9.0	8.0	6.0	5.5	5.5	5.5	6.0	5.5
21	11.5	11.5	8.5	8.0	9.0	8.5	5.5	5.0	5.5	5.5	6.0	5.5
22	11.5	10.5	8.5	8.5	8.5	8.0	5.5	5.0	5.5	5.0	6.0	5.5
23	11.0	10.5	8.5	8.5	8.0	8.0	6.0	5.5	5.0	5.0	6.0	5.5
24	10.5	10.0	8.5	8.5	8.5	7.0	6.0	5.5	5.0	5.0	6.5	6.0
25	10.0	9.5	8.5	8.5	8.5	6.5	6.0	6.0	5.5	5.5	6.5	6.5
26	9.5	8.5	8.5	8.5	6.5	6.0	6.0	5.5	6.0	5.5	7.0	6.5
27	9.5	9.0	8.5	8.5	7.0	6.5	5.5	5.5	5.5	5.5	7.0	7.0
28	10.0	9.5	8.5	8.0	7.0	7.0	6.0	5.5	5.5	5.5	7.0	6.5
29	10.0	9.5	8.0	8.0	7.0	7.0	6.0	5.5	---	---	6.5	6.0
30	9.5	9.5	8.0	8.0	7.0	6.5	6.0	5.5	---	---	7.0	6.5
31	10.0	9.5	---	---	6.5	6.0	6.0	6.0	---	---	7.0	6.5
MONTH	12.0	8.5	10.0	5.5	9.0	6.0	7.0	1.5	6.0	4.5	7.0	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.5	10.0	9.5	14.0	13.0	19.5	17.0	22.0	21.0	---	---
2	6.5	6.5	10.0	9.5	14.0	13.5	17.0	16.0	21.5	21.0	---	---
3	6.5	6.5	10.5	10.0	14.0	14.0	17.0	16.0	22.0	21.0	---	---
4	6.5	6.5	11.5	10.5	14.0	13.5	18.5	17.0	22.0	21.0	---	---
5	7.0	6.5	13.0	11.5	14.0	13.0	18.5	17.0	22.0	21.0	---	---
6	7.0	7.0	13.0	12.0	13.0	12.0	17.0	16.0	21.0	20.0	---	---
7	7.0	7.0	13.0	12.0	12.0	11.5	17.0	16.5	20.0	19.0	---	---
8	7.0	7.0	13.0	12.0	13.0	12.0	17.0	17.0	19.5	18.5	---	---
9	7.0	7.0	12.0	11.5	14.0	13.0	17.0	15.5	18.5	18.0	---	---
10	7.0	7.0	11.5	10.5	15.5	14.0	15.5	15.0	19.5	18.5	---	---
11	7.0	7.0	10.5	10.5	16.0	15.0	15.0	15.0	19.5	19.0	---	---
12	7.0	6.5	10.5	10.0	17.0	16.0	16.0	15.0	19.0	18.5	19.5	15.0
13	7.0	6.0	10.0	9.0	18.0	17.0	16.5	15.5	18.5	16.5	20.0	13.5
14	8.5	7.0	9.0	9.0	18.0	16.5	18.0	16.5	16.5	16.0	20.0	14.0
15	8.5	8.0	9.0	8.5	16.5	16.0	18.0	18.0	17.0	16.5	20.0	14.0
16	8.5	7.0	8.5	8.0	16.5	15.5	18.0	16.5	18.5	17.0	19.5	14.0
17	8.5	8.0	8.5	8.5	18.5	16.5	16.5	16.5	18.5	18.0	19.0	13.5
18	8.5	8.5	8.5	8.5	18.5	18.0	16.5	16.0	18.5	18.0	19.5	14.0
19	8.5	8.0	9.5	8.5	18.0	17.0	16.5	16.5	18.5	16.5	20.0	14.5
20	8.5	8.0	10.0	9.5	17.0	16.0	17.0	16.5	16.5	16.0	21.0	15.5
21	9.5	8.0	11.0	10.0	18.0	16.5	18.0	17.0	16.0	16.0	20.5	15.5
22	9.5	9.0	11.0	11.0	18.0	17.0	18.0	18.0	17.0	16.0	20.5	15.5
23	9.0	8.5	11.0	10.5	17.0	16.0	18.0	18.0	18.0	17.0	20.5	15.0
24	9.0	8.5	11.0	10.5	16.5	16.5	18.0	18.0	18.5	18.5	20.0	14.5
25	9.0	8.5	12.0	11.0	16.5	15.5	18.5	18.0	19.0	18.5	19.5	14.5
26	9.0	8.5	13.5	12.0	15.5	14.5	19.0	18.5	19.0	18.5	17.5	14.0
27	8.5	8.5	13.5	13.0	15.0	14.5	19.0	19.0	19.5	19.0	16.5	12.0
28	8.5	8.5	13.5	13.0	16.0	15.0	20.0	19.0	19.5	19.0	16.0	11.0
29	10.0	8.5	13.0	12.0	18.5	16.0	21.0	20.0	19.5	19.5	16.0	11.0
30	10.0	10.0	12.0	11.0	20.0	18.5	22.0	21.0	---	---	16.0	11.0
31	---	---	13.0	12.0	---	---	22.0	21.0	---	---	---	---
MONTH	10.0	6.0	13.5	8.0	20.0	11.5	22.0	15.0	22.0	16.0	---	---

WILLAMETTE RIVER BASIN

75

14189000 SANTIAM RIVER AT JEFFERSON, OREG.

LOCATION.--Lat 44°42'55", long 123°00'40", in SE¼ sec.11, T.10 S., R.3 W., Marion County, temperature recorder at gaging station on right bank, 350 ft (106 m) upstream from Southern Pacific railroad bridge at Jefferson, 2.1 mi (3.4 km) downstream from confluence of North and South Santiam Rivers, and at mile 9.62 (15.47 km).

DRAINAGE AREA.--1,790 mi² (4,640 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 14.5°C Oct. 1; minimum recorded, 3.0°C Feb. 2, 4.

Period of record:

Water temperatures: Maximum, 23.5°C Aug. 8, 1971, Aug. 1, 1973; minimum, 1.0°C Jan. 26, 1969.

REMARKS.--No records available Mar. 21 to Sept. 30, recorder malfunction.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	12.5	8.5	7.5	7.0	6.0	---	---	4.5	3.5	5.0	4.0
2	13.5	11.0	8.0	7.5	6.5	6.0	---	---	4.0	3.0	5.0	3.5
3	13.0	10.5	7.5	7.5	6.5	6.0	---	---	4.5	3.5	5.0	3.5
4	13.0	10.5	9.0	7.5	6.0	5.5	---	---	4.0	3.0	6.0	5.0
5	13.0	11.0	8.5	8.5	6.0	5.5	---	---	4.5	3.5	6.0	5.5
6	13.5	12.0	9.0	8.5	6.5	6.0	---	---	4.5	3.5	6.5	5.5
7	13.0	10.5	9.0	9.0	6.5	6.0	---	---	4.0	4.0	5.5	4.0
8	12.5	10.5	9.0	8.5	6.0	5.0	---	---	5.0	4.0	5.5	4.0
9	12.0	10.5	9.0	8.5	5.5	5.0	---	---	4.5	4.0	5.5	4.5
10	12.5	11.0	8.5	8.0	5.5	5.0	---	---	5.5	4.5	7.0	5.5
11	13.0	12.0	8.0	7.5	6.0	5.5	---	---	5.5	4.5	6.0	5.0
12	13.0	12.0	8.0	7.5	6.0	5.5	---	---	5.5	4.5	6.5	4.5
13	13.5	12.0	8.5	7.5	5.5	5.0	---	---	5.0	4.5	6.5	4.5
14	13.5	12.0	8.5	7.5	5.5	5.5	---	---	5.5	4.5	6.5	4.0
15	13.0	11.5	7.5	7.0	6.0	5.5	---	---	5.0	4.5	7.0	4.5
16	13.5	12.0	7.5	6.5	6.5	6.0	---	---	5.0	4.5	7.0	5.0
17	13.5	11.5	7.5	6.5	6.5	6.0	---	---	5.0	3.5	7.0	4.5
18	13.5	11.5	7.0	7.0	6.0	5.5	6.5	5.5	4.5	3.5	8.0	5.5
19	13.5	12.0	7.0	6.5	5.5	5.5	6.5	5.0	5.0	3.5	7.5	5.5
20	13.0	12.0	7.0	6.5	7.0	5.5	4.5	3.5	5.5	4.0	7.0	6.0
21	13.0	12.0	7.0	6.5	7.0	6.5	4.0	3.5	5.5	4.5	---	---
22	13.0	11.0	7.0	6.5	6.5	6.0	4.5	3.5	4.5	3.5	---	---
23	12.5	11.5	7.0	6.5	6.0	5.5	4.5	3.5	5.0	4.0	---	---
24	12.5	11.0	---	---	6.0	5.5	4.0	3.5	5.0	4.0	---	---
25	12.5	10.0	---	---	5.5	5.0	4.5	4.0	5.0	4.0	---	---
26	12.0	11.5	---	---	6.0	5.0	4.5	4.0	4.5	3.5	---	---
27	12.5	10.5	7.0	6.5	5.5	5.0	5.0	4.5	5.0	4.5	---	---
28	12.5	11.5	7.0	6.0	---	---	5.0	4.5	5.0	4.0	---	---
29	11.5	10.5	6.5	5.5	---	---	4.5	4.0	---	---	---	---
30	11.5	9.0	6.5	6.0	---	---	4.5	3.5	---	---	---	---
31	9.5	7.5	---	---	---	---	4.5	4.0	---	---	---	---
MONTH	14.5	7.5	9.0	5.5	7.0	5.0	---	---	5.5	3.0	---	---

WILLAMETTE RIVER BASIN

14191000 WILLAMETTE RIVER AT SALEM, OREG.

LOCATION.--Lat 44°56'40", long 123°02'30", in SW¼ sec.22, T.7 S., R.3 W., Marion County, at bridge on State Highway 22, 300 ft (91 m) downstream from gaging station at Salem, and at mile 84.16 (135.41 km).

DRAINAGE AREA.--7,280 mi² (18,900 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August to December 1910, August 1911 to August 1912, February 1951 to September 1974.
Water temperatures: February 1951 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 23.0°C July 31, Aug. 1; minimum, 1.0°C Jan. 6-12.

Period of record:

Water temperatures: Maximum, 25.5°C July 23, 1959; minimum, freezing point on several days in 1956.

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 06...	24200	15	60	7.8	1.6	3.7	.8	27	0	5.1	3.7
JAN. 29...	68400	15	80	4.6	1.6	3.1	.6	19	0	2.8	2.2
MAY 14...	20900	14	80	4.6	1.5	3.3	.5	22	0	3.2	2.7
JUNE 26...	15200	16	50	5.4	1.7	4.2	.6	22	0	5.3	3.8

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
NOV. 06...	.0	.30	.06	52	3400	.07	26	4	.3	7.1	59
JAN. 29...	.2	.30	.09	41	7570	.06	18	2	.3	7.9	46
MAY 14...	.0	.23	--	42	2370	.06	18	0	.3	7.2	52
JUNE 26...	.1	.41	--	50	2050	.07	20	2	.4	7.9	60

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDEO GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDEO GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDEO GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
JAN. 29...	40	46	<.4	1.4	.5	.9	.7	1.0	.01	.01

WILLAMETTE RIVER BASIN

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14191000 WILLAMETTE RIVER AT SALEM, OREG.--Continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	15.5	12.0	10.5	8.0	8.0	5.5	4.5	6.0	6.0	---	---
2	15.5	15.0	10.5	10.0	8.0	8.0	4.5	4.0	6.0	6.0	---	---
3	15.0	14.5	10.0	9.5	8.0	8.0	4.0	3.5	6.0	6.0	---	---
4	14.5	14.0	9.5	9.5	8.0	8.0	3.5	3.0	6.0	6.0	---	---
5	14.0	14.0	9.5	9.0	8.0	7.0	3.0	1.5	6.0	6.0	---	---
6	14.0	14.0	9.0	8.5	7.0	7.0	2.0	1.0	6.0	6.0	---	---
7	14.0	13.5	9.0	8.5	8.0	8.0	1.0	1.0	6.0	6.0	---	---
8	13.5	13.5	9.0	9.0	8.0	8.0	1.0	1.0	6.0	6.0	---	---
9	13.5	13.5	9.5	9.0	8.0	7.0	1.0	1.0	6.0	6.0	---	---
10	13.5	13.5	9.5	9.5	7.0	7.0	1.0	1.0	6.0	6.0	---	---
11	13.5	13.5	10.0	9.5	7.0	7.0	1.0	1.0	6.0	6.0	---	---
12	13.5	13.5	10.0	10.0	7.0	6.5	1.5	1.0	6.0	6.0	---	---
13	14.0	14.0	10.0	9.5	6.5	6.5	2.0	1.5	6.0	6.0	---	---
14	14.5	14.0	9.5	9.0	6.5	6.5	4.0	1.5	6.0	6.0	---	---
15	14.5	14.5	9.0	9.0	6.5	6.5	5.5	4.0	6.5	6.0	---	---
16	14.5	14.5	9.0	9.0	7.0	6.5	6.0	5.5	6.5	6.5	---	---
17	14.5	14.5	9.0	9.0	7.0	7.0	---	---	6.5	6.5	---	---
18	14.5	14.0	9.0	9.0	7.0	7.0	---	---	6.5	6.5	---	---
19	14.0	13.5	9.0	8.5	7.0	7.0	---	---	6.5	6.5	---	---
20	13.5	13.5	8.5	8.5	7.0	6.5	---	---	6.5	6.5	---	---
21	13.5	13.5	8.5	8.5	7.0	6.5	---	---	6.5	6.5	---	---
22	13.5	13.5	8.5	8.5	6.5	6.5	5.5	5.5	6.5	6.5	---	---
23	13.5	13.0	9.5	8.5	6.5	6.5	5.5	5.5	6.5	6.0	---	---
24	13.0	13.0	8.5	8.5	6.5	6.5	5.5	5.5	6.0	6.0	---	---
25	13.0	12.0	8.5	8.5	7.0	6.5	5.5	5.5	6.0	6.0	---	---
26	12.0	12.0	8.5	8.0	6.5	6.5	5.5	5.5	6.0	6.0	---	---
27	12.0	11.5	8.5	8.0	6.5	6.5	6.0	5.5	6.0	6.0	---	---
28	12.0	11.5	8.0	8.0	6.5	6.5	6.0	6.0	6.0	6.0	---	---
29	12.0	12.0	8.0	8.0	6.5	6.5	6.0	6.0	---	---	---	---
30	12.0	12.0	8.0	8.0	6.5	6.5	6.0	6.0	---	---	---	---
31	12.0	12.0	---	---	6.5	5.5	6.0	6.0	---	---	---	---
MONTH	15.5	11.5	12.0	8.0	8.0	5.5	6.0	1.0	6.5	6.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	23.0	21.5	18.0	17.0
2	---	---	---	---	---	---	---	---	22.5	21.0	18.5	17.5
3	---	---	---	---	---	---	---	---	22.0	21.0	18.5	18.0
4	---	---	---	---	---	---	---	---	22.0	21.0	18.0	17.5
5	---	---	---	---	---	---	17.5	12.5	21.5	20.5	18.0	17.0
6	---	---	---	---	---	---	17.0	16.0	21.0	20.0	18.5	17.0
7	---	---	---	---	---	---	17.0	15.5	20.5	19.0	18.5	17.5
8	---	---	---	---	---	---	16.5	15.0	20.0	19.0	18.5	18.0
9	---	---	---	---	---	---	16.0	14.5	20.0	19.0	18.0	17.5
10	---	---	---	---	---	---	15.0	14.0	20.5	19.5	17.5	17.0
11	---	---	---	---	---	---	15.5	14.5	20.5	19.0	17.0	16.0
12	---	---	---	---	---	---	16.5	14.5	20.0	19.0	17.0	16.0
13	---	---	---	---	---	---	17.5	15.5	19.0	18.0	17.0	16.0
14	---	---	---	---	---	---	18.5	17.0	18.5	17.0	17.0	16.0
15	---	---	---	---	---	---	18.5	17.5	18.5	17.5	17.5	16.0
16	---	---	---	---	---	---	18.5	17.5	19.0	17.5	17.5	16.0
17	---	---	---	---	---	---	17.5	17.0	19.0	17.5	17.5	16.5
18	---	---	---	---	---	---	17.0	16.5	19.0	18.0	17.0	16.0
19	---	---	---	---	---	---	17.5	16.0	18.0	17.0	17.0	16.0
20	---	---	---	---	---	---	19.0	17.0	17.0	16.0	17.5	16.5
21	---	---	---	---	---	---	19.5	18.0	17.0	15.5	17.0	16.5
22	---	---	---	---	---	---	20.0	19.0	18.5	16.5	17.5	16.0
23	---	---	---	---	---	---	20.0	19.0	19.0	17.5	17.5	16.0
24	---	---	---	---	---	---	20.5	19.0	19.5	18.0	17.0	16.0
25	---	---	---	---	---	---	20.5	19.5	20.5	18.5	17.0	16.0
26	---	---	---	---	---	---	20.5	19.5	20.5	19.5	16.5	16.0
27	---	---	---	---	---	---	21.5	20.0	21.0	20.0	16.0	15.0
28	---	---	---	---	---	---	21.5	20.5	20.5	19.5	15.0	14.5
29	---	---	---	---	---	---	22.5	20.5	20.5	19.5	15.0	14.0
30	---	---	---	---	---	---	22.5	21.5	20.0	18.5	15.0	14.5
31	---	---	---	---	---	---	23.0	21.5	18.5	17.5	---	---
MONTH	---	---	---	---	---	---	23.0	12.5	23.0	15.5	18.5	14.0

WILLAMETTE RIVER BASIN

14211000 CLACKAMAS RIVER NEAR CLACKAMAS, OREG.

LOCATION.--Lat 45°23'36", long 122°31'54", in NE¼ sec.14, T.2 S., R.2 E., Clackamas County, temperature recorder at gaging station on left bank, 0.8 mi (1.3 km) upstream from Johnson Creek, 2.1 mi (3.4 km) southeast of Clackamas, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--930 mi² (2,408 km²) at gage, 936 mi² (2,424 km²) at Gladstone Bridge 3.6 mi (5.8 km) downstream, where high-flow discharge measurements are made.

PERIOD OF RECORD.--Water temperatures: May 1963 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 17.0°C July 14; minimum, 0.5°C Jan. 6-11.

Period of record:

Water temperatures: Maximum, 22.0°C Aug. 13, 14, 1967; minimum, 0.5°C Jan. 6-11, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	8.5	7.5	5.5	5.5	4.0	3.5	---	---	---	---
2	13.0	11.0	7.5	6.5	5.5	5.0	3.5	3.0	---	---	---	---
3	12.0	10.5	6.5	6.5	5.5	5.5	3.0	2.0	---	---	---	---
4	12.0	10.0	6.5	6.0	5.5	5.0	2.0	1.5	---	---	---	---
5	12.0	10.5	5.5	5.5	5.0	5.0	1.5	1.0	---	---	---	---
6	12.0	11.0	6.0	5.5	5.5	5.5	1.0	0.5	---	---	---	---
7	11.5	10.0	6.0	5.5	5.5	5.5	0.5	0.5	---	---	---	---
8	11.0	10.5	6.0	5.5	5.5	5.0	1.0	0.5	---	---	---	---
9	11.0	10.5	6.0	5.5	5.0	5.0	1.0	0.5	---	---	---	---
10	11.0	10.5	6.0	5.5	5.0	4.5	1.0	0.5	---	---	---	---
11	10.5	10.5	6.5	6.0	5.5	5.0	1.0	0.5	---	---	---	---
12	11.0	10.0	6.5	6.0	5.0	5.0	1.5	1.0	---	---	---	---
13	11.0	10.5	6.5	6.0	5.0	5.0	2.5	1.5	---	---	---	---
14	11.0	10.5	6.0	6.0	5.0	5.0	3.5	2.5	---	---	---	---
15	11.5	9.5	6.0	6.0	5.5	5.0	---	---	---	---	---	---
16	11.5	11.0	6.0	6.0	5.5	5.5	---	---	---	---	---	---
17	11.0	10.0	6.0	5.5	5.5	5.0	---	---	---	---	---	---
18	11.0	10.0	5.5	5.5	5.0	5.0	---	---	---	---	---	---
19	11.0	10.0	5.5	5.0	5.0	5.0	---	---	---	---	---	---
20	11.0	10.5	5.5	5.0	5.5	5.0	---	---	---	---	---	---
21	11.0	10.5	5.5	5.0	5.5	5.0	---	---	---	---	---	---
22	10.5	9.5	5.0	5.0	5.0	5.0	---	---	---	---	---	---
23	10.0	9.5	5.0	5.0	5.0	5.0	---	---	---	---	---	---
24	10.0	9.0	5.0	5.0	5.0	4.5	---	---	---	---	---	---
25	10.0	9.0	5.0	5.0	5.0	4.5	---	---	---	---	---	---
26	9.0	8.0	5.5	5.0	4.5	4.5	---	---	---	---	---	---
27	10.0	8.5	5.5	5.0	5.0	4.5	---	---	---	---	---	---
28	9.5	9.0	5.5	5.5	5.0	4.5	---	---	---	---	---	---
29	9.0	8.5	5.5	5.5	4.5	4.5	---	---	---	---	---	---
30	9.0	8.0	5.5	5.0	4.5	4.5	---	---	---	---	---	---
31	9.0	8.0	---	---	4.5	4.0	---	---	---	---	---	---
MONTH	13.0	8.0	8.5	5.0	5.5	4.0	---	---	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	11.5	10.5	14.0	13.5	---	---	---	---
2	---	---	---	---	11.5	10.0	15.0	14.0	---	---	---	---
3	---	---	---	---	11.0	10.5	14.5	13.0	---	---	---	---
4	---	---	---	---	11.0	10.5	15.5	14.0	---	---	---	---
5	---	---	---	---	11.0	10.5	---	---	---	---	---	---
6	---	---	---	---	10.5	10.0	15.0	13.5	---	---	---	---
7	---	---	---	---	10.5	10.0	15.0	15.0	---	---	---	---
8	---	---	---	---	11.5	10.0	15.5	14.0	---	---	---	---
9	---	---	---	---	12.0	10.0	14.5	13.5	---	---	---	---
10	---	---	8.5	8.0	12.5	10.5	15.0	13.5	---	---	---	---
11	---	---	8.5	7.5	12.5	11.0	15.0	13.0	---	---	---	---
12	---	---	8.0	7.5	13.0	11.0	16.5	13.0	---	---	---	---
13	---	---	8.5	7.5	13.5	11.5	16.0	13.0	---	---	---	---
14	---	---	8.5	7.5	12.5	11.5	17.0	15.5	---	---	---	---
15	---	---	8.5	7.5	12.5	11.5	---	---	---	---	---	---
16	---	---	8.0	7.5	13.0	12.0	---	---	---	---	---	---
17	---	---	8.5	7.5	14.0	12.0	---	---	---	---	---	---
18	---	---	8.5	8.0	13.0	12.0	---	---	---	---	---	---
19	---	---	9.5	8.0	13.5	12.0	---	---	---	---	---	---
20	---	---	9.0	8.5	14.5	13.0	---	---	---	---	---	---
21	---	---	10.0	8.5	15.0	12.5	---	---	---	---	---	---
22	---	---	10.0	9.5	14.0	12.5	---	---	---	---	---	---
23	---	---	9.5	9.0	15.0	13.0	---	---	---	---	---	---
24	---	---	9.5	9.5	16.0	12.5	---	---	---	---	---	---
25	---	---	10.0	9.5	13.5	13.0	---	---	---	---	---	---
26	---	---	10.0	10.0	13.5	12.0	---	---	---	---	---	---
27	---	---	11.0	10.0	12.5	12.5	---	---	---	---	---	---
28	---	---	11.0	9.5	15.0	12.5	---	---	---	---	---	---
29	---	---	10.5	9.5	16.5	12.5	---	---	---	---	---	---
30	---	---	11.0	9.5	16.5	13.0	---	---	---	---	---	---
31	---	---	11.5	9.5	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	16.5	10.0	---	---	---	---	---	---

14211805 WILLAMETTE RIVER ABOVE ST. JOHNS BRIDGE, AT PORTLAND, OREG.

LOCATION.--Lat 45°34'54", long 122°38'09", in NW¼SW¼ sec.12, T.1 N., R.1 W., Multnomah County, temperature recorder on left bank, on U.S. Corps of Engineers dock, 0.4 mi (0.6 km) upstream from St. Johns Bridge in North Portland, and at mile 6.4 (10.3 km).

DRAINAGE AREA.--11,450 mi² (29,700 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 24.5°C Aug. 4-7; minimum, 1.0°C Jan. 7-12.

Period of record:

Water temperatures: Maximum, 25.5°C July 29, 1973; minimum, 1.0°C Jan. 7-12, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	7.5	7.5	6.5	6.0	7.0	7.0	6.5	6.0
2	17.0	16.5	---	---	7.5	7.5	6.0	4.5	7.0	7.0	6.0	6.0
3	17.0	16.0	---	---	8.0	8.0	4.5	3.5	7.0	6.5	6.5	6.0
4	17.0	16.0	---	---	7.5	7.5	3.5	3.0	6.5	6.5	6.0	6.0
5	16.5	16.0	---	---	7.5	7.5	3.0	2.0	6.5	6.5	6.0	6.0
6	17.0	16.0	9.0	9.0	7.5	7.0	2.0	1.5	6.5	6.5	6.5	6.0
7	16.0	15.5	9.0	8.0	7.5	7.0	1.5	1.0	6.5	6.0	6.5	6.0
8	15.5	15.0	8.5	8.0	7.5	7.5	1.0	1.0	6.0	6.0	6.5	6.0
9	---	---	8.0	7.5	7.5	7.5	1.0	1.0	6.0	5.5	6.0	6.0
10	---	---	8.0	7.5	7.5	7.0	1.0	1.0	5.5	5.5	6.0	6.0
11	---	---	8.5	8.0	7.0	6.5	1.0	1.0	5.5	5.5	6.5	6.0
12	---	---	8.5	8.5	6.5	6.5	1.5	1.0	5.5	5.5	7.5	6.5
13	---	---	8.5	8.5	7.0	6.5	2.0	1.5	5.5	5.5	7.5	7.5
14	---	---	8.5	8.0	7.0	7.0	3.5	2.0	6.0	5.5	7.5	7.0
15	---	---	8.0	7.5	7.0	7.0	5.5	3.5	6.0	6.0	7.0	7.0
16	---	---	8.0	7.5	7.5	7.0	7.0	6.0	6.5	6.0	7.5	7.0
17	---	---	8.0	7.5	8.0	7.5	7.5	7.0	6.5	6.5	8.5	7.5
18	---	---	8.0	7.5	8.0	8.0	7.5	7.5	7.0	6.5	8.5	8.5
19	---	---	7.5	7.0	8.0	7.5	7.5	7.5	7.0	6.5	8.5	8.5
20	---	---	7.0	7.0	7.5	7.5	7.5	7.0	6.5	6.5	8.5	8.5
21	---	---	7.0	7.0	7.5	7.5	7.0	6.5	6.5	6.5	8.5	8.5
22	---	---	7.0	6.5	8.0	7.5	6.5	5.5	6.5	6.5	8.5	8.5
23	---	---	7.0	6.5	8.0	8.0	5.5	5.5	6.5	6.5	8.5	8.5
24	---	---	6.5	6.5	8.0	7.5	6.0	5.5	6.5	6.0	8.5	8.5
25	---	---	7.0	6.5	7.5	7.5	6.5	6.0	6.0	6.0	8.5	8.5
26	---	---	7.0	7.0	7.5	7.0	6.5	6.5	6.5	6.0	9.0	8.5
27	---	---	7.0	7.0	7.0	7.0	6.5	6.5	6.5	6.5	9.5	9.0
28	---	---	7.5	7.0	7.0	6.5	6.5	6.5	7.0	6.5	9.5	9.5
29	---	---	7.5	7.5	7.0	7.0	6.5	6.5	---	---	9.5	9.0
30	---	---	8.0	7.5	7.0	7.0	6.5	6.5	---	---	9.0	9.0
31	---	---	---	---	7.0	6.5	7.0	6.5	---	---	9.0	9.0
MONTH	---	---	9.0	6.5	8.0	6.5	7.5	1.0	7.0	5.5	9.5	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	11.5	11.0	14.5	14.0	17.0	17.0	23.5	22.5	21.5	20.5
2	8.5	8.5	11.5	11.0	14.5	13.5	17.0	17.0	24.0	23.0	21.5	21.0
3	8.5	8.0	12.0	11.5	14.0	13.5	17.5	17.0	24.0	23.0	21.0	21.0
4	8.5	8.0	12.5	12.0	14.5	14.0	18.0	17.0	24.5	23.0	21.5	21.0
5	8.0	8.0	13.5	12.0	14.5	14.5	18.5	18.0	24.5	23.0	22.0	21.0
6	8.5	8.5	13.0	12.5	14.5	13.5	18.5	18.5	24.5	23.5	22.0	21.0
7	8.5	8.5	13.5	13.0	13.5	13.0	19.0	19.0	24.5	23.5	21.5	21.0
8	9.0	8.5	14.0	13.0	13.0	12.0	19.0	19.0	24.0	23.5	21.0	20.5
9	9.0	9.0	14.0	14.0	13.0	12.0	19.0	18.5	24.0	23.0	20.5	20.0
10	9.0	9.0	14.0	13.5	13.5	12.5	18.5	18.5	24.0	23.5	20.5	20.0
11	9.0	8.5	13.5	13.5	14.5	13.0	18.5	18.5	23.5	23.0	20.5	19.5
12	9.0	8.5	13.5	12.5	15.5	13.5	18.5	18.5	23.0	22.5	19.5	19.5
13	9.0	8.5	12.5	11.5	16.0	15.0	18.5	18.0	22.5	22.5	19.5	19.5
14	9.5	9.0	11.5	11.0	16.0	16.0	19.0	18.0	22.5	22.0	19.5	19.0
15	9.5	9.0	11.5	11.0	17.0	16.0	19.0	18.0	23.0	21.5	19.5	19.0
16	10.0	9.5	11.5	11.0	17.0	16.0	18.5	18.0	22.5	21.5	19.5	18.5
17	10.5	10.0	11.0	10.5	16.5	16.0	18.0	18.0	22.0	21.5	20.0	19.0
18	10.5	10.5	11.0	10.5	16.0	16.0	18.5	18.0	21.5	21.0	20.0	18.5
19	10.5	10.5	10.5	10.5	16.0	15.5	19.0	18.0	21.0	21.0	19.5	18.5
20	10.5	10.5	10.5	10.5	16.5	15.5	19.5	18.5	21.0	20.5	19.5	18.5
21	11.0	10.5	11.0	10.5	16.5	16.5	20.0	19.0	21.0	20.0	19.0	18.5
22	11.5	11.0	11.0	11.0	17.5	16.5	20.5	19.0	20.5	20.0	19.5	18.5
23	11.5	11.0	12.0	11.0	17.5	17.0	20.0	19.5	21.0	19.5	19.5	18.5
24	11.5	11.0	12.5	12.0	17.0	17.0	20.5	19.5	20.5	19.5	19.5	18.5
25	11.5	11.0	13.0	12.5	17.0	16.5	20.5	20.0	21.0	19.5	19.5	18.0
26	11.0	11.0	13.0	12.5	17.0	16.5	21.0	20.0	21.0	20.0	19.0	18.5
27	11.0	11.0	13.5	12.5	17.0	16.5	21.5	20.5	20.5	20.0	19.0	18.5
28	11.0	11.0	13.5	13.0	17.0	16.5	22.0	21.0	21.5	20.0	18.5	18.0
29	11.5	11.0	14.0	13.5	17.0	16.5	22.5	21.5	21.0	20.0	18.5	18.0
30	11.5	11.0	14.5	14.0	17.5	17.0	22.5	21.5	21.0	20.5	18.0	17.5
31	---	---	14.5	14.0	---	---	23.5	22.0	21.0	20.5	---	---
MONTH	11.5	8.0	14.5	10.5	17.5	12.0	23.5	17.0	24.5	19.5	22.0	17.5

COLUMBIA RIVER MAIN STEM

14222910 COLUMBIA RIVER AT KALAMA, WASH.

LOCATION.--Lat 46°01'13", long 122°51'30", in NW¼ sec.7, T.6 N., R.1 W., Cowlitz County, temperature recorder on right bank at dock of Dow Chemical Company, 1.0 mi (1.6 km) northwest of Kalama, and at mile 74.3 (119.5 km).

DRAINAGE AREA.--254,000 mi² (657,900 km²), approximately.

PERIOD OF RECORD.--Water temperatures: September 1968 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.5°C July 30 to Aug. 2, Aug. 29-31, Sept. 2, 3; minimum, freezing point Jan. 10-14.

Period of record:

Water temperatures: Maximum, 22.5°C Aug. 10-13, 1971, July 28 to Aug. 1, 1973; minimum, freezing point Jan. 10-14, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.0	12.5	8.0	8.0	5.0	4.5	---	---	5.0	5.0
2	---	---	12.5	12.0	8.0	8.0	4.5	3.5	---	---	5.0	5.0
3	17.5	17.0	12.5	11.5	8.0	8.0	3.5	3.0	---	---	5.0	4.5
4	17.0	16.5	11.5	11.0	8.0	7.5	3.0	2.5	---	---	5.0	4.5
5	17.0	16.5	11.5	10.5	7.5	7.5	2.5	2.0	---	---	5.0	4.5
6	17.0	16.0	11.0	10.5	7.5	7.0	2.0	1.5	---	---	5.0	5.0
7	16.5	16.0	10.5	10.0	7.5	7.0	1.5	1.0	---	---	5.0	5.0
8	16.5	16.0	11.0	10.0	7.5	7.0	1.0	0.5	---	---	5.0	5.0
9	16.5	15.5	10.5	9.5	7.0	6.5	1.0	0.5	---	---	5.0	5.0
10	16.0	15.5	10.0	9.5	7.0	6.5	0.5	0.0	---	---	5.0	5.0
11	16.0	15.5	10.5	9.5	6.5	6.5	0.5	0.0	---	---	5.5	5.0
12	16.0	15.5	10.5	10.0	6.5	6.5	0.5	0.0	4.0	4.0	5.5	5.5
13	16.0	15.5	10.0	10.0	6.5	6.5	0.0	0.0	4.0	4.0	5.5	5.5
14	15.5	15.0	10.0	9.5	6.5	6.5	1.0	0.0	4.5	4.0	5.5	5.5
15	15.5	15.0	9.5	9.5	6.5	6.5	2.5	1.5	4.5	4.5	5.5	5.5
16	15.5	15.0	9.5	9.5	7.0	6.5	3.0	2.5	4.5	4.5	5.5	5.5
17	15.5	15.5	9.5	9.0	7.0	6.5	3.0	2.5	4.5	4.5	6.0	5.5
18	16.0	15.5	9.0	8.5	7.0	6.5	2.5	2.5	4.5	4.5	6.0	6.0
19	16.0	15.5	8.5	8.5	6.5	6.5	2.5	2.0	4.5	4.5	6.5	6.0
20	16.0	15.0	8.5	8.5	6.5	6.0	2.0	2.0	4.5	4.5	6.5	6.0
21	15.5	15.0	8.5	8.0	6.0	6.0	2.0	2.0	4.5	4.5	6.5	6.5
22	15.5	15.0	8.5	8.0	6.0	6.0	2.0	2.0	4.5	4.5	6.5	6.5
23	15.5	14.5	8.0	8.0	6.5	6.0	3.0	2.0	4.5	4.5	6.5	6.5
24	15.5	14.0	8.0	8.0	6.0	6.0	3.5	2.5	4.5	4.0	7.0	6.5
25	15.0	14.0	8.0	8.0	6.0	5.5	---	---	5.0	4.5	7.0	7.0
26	14.5	14.0	8.0	7.5	6.0	5.5	---	---	5.0	4.5	7.0	7.0
27	14.5	13.5	8.0	7.5	5.5	5.0	---	---	5.0	4.5	7.0	7.0
28	14.0	13.5	8.0	8.0	5.5	5.0	---	---	5.0	5.0	7.0	7.0
29	14.0	13.5	8.0	8.0	5.0	5.0	---	---	---	---	7.5	7.0
30	14.0	13.5	8.0	8.0	5.0	5.0	---	---	---	---	7.5	7.5
31	14.0	13.0	---	---	5.0	5.0	---	---	---	---	7.5	7.5
MONTH	17.5	13.0	13.0	7.5	8.0	5.0	---	---	---	---	7.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.5	10.5	10.5	14.5	14.0	16.5	16.5	21.5	21.5	21.0	20.5
2	7.5	7.5	10.5	10.0	14.5	14.5	16.5	16.0	21.5	20.5	21.5	21.0
3	7.5	7.5	11.0	10.5	14.5	14.0	16.5	16.0	21.0	20.5	21.5	21.0
4	7.5	7.5	11.5	11.0	14.0	14.0	17.0	16.5	21.0	20.5	20.5	20.0
5	7.5	7.5	11.5	11.5	14.0	14.0	17.0	16.5	21.0	20.0	21.0	20.0
6	7.5	7.5	12.0	11.5	13.5	13.5	17.0	16.5	21.0	21.0	21.0	20.5
7	8.0	7.5	12.5	12.0	13.5	13.5	17.0	16.5	21.0	20.5	21.0	20.5
8	---	---	12.5	12.0	13.5	13.0	17.0	17.0	20.5	20.5	21.0	20.5
9	---	---	12.5	12.0	13.5	13.5	17.0	17.0	20.5	20.0	21.0	20.5
10	---	---	12.0	12.0	14.0	13.5	17.0	17.0	20.5	20.0	20.5	20.0
11	---	---	12.0	12.0	14.0	13.5	17.0	17.0	20.5	20.5	20.5	20.0
12	---	---	12.0	12.0	14.5	14.0	17.5	17.0	20.5	20.5	20.5	19.5
13	---	---	12.0	12.0	14.5	14.0	17.5	17.0	20.5	20.0	20.5	19.5
14	---	---	12.0	12.0	14.5	14.5	18.0	17.5	20.0	19.5	20.0	19.5
15	---	---	12.0	11.5	14.5	14.5	18.0	17.5	20.0	19.5	20.0	19.5
16	---	---	11.5	11.0	15.0	14.5	18.0	17.5	20.0	19.5	20.0	19.5
17	---	---	11.5	11.0	15.0	14.5	18.5	17.5	20.0	20.0	20.0	19.5
18	---	---	11.5	11.5	15.5	15.0	18.0	17.5	20.0	20.0	20.5	20.0
19	---	---	11.5	11.0	15.5	15.0	18.0	17.5	20.0	19.5	21.0	20.0
20	---	---	11.5	11.0	16.0	15.5	18.5	18.0	20.0	19.5	21.0	20.0
21	---	---	11.5	11.0	16.0	15.5	19.0	18.5	19.5	19.0	20.5	20.0
22	---	---	12.0	11.5	16.0	15.5	19.0	19.0	20.0	19.0	20.0	19.5
23	---	---	12.0	11.5	16.0	15.0	19.0	19.0	19.5	19.0	20.0	19.5
24	---	---	12.0	11.5	15.5	15.0	19.0	19.0	20.5	19.5	19.5	19.5
25	---	---	12.0	12.0	15.5	15.0	19.0	19.0	20.5	19.5	19.5	19.5
26	---	---	12.5	12.0	15.0	15.0	19.5	19.0	20.5	20.0	19.5	19.0
27	---	---	13.0	12.5	15.5	15.0	20.0	19.5	21.0	20.5	19.5	19.0
28	---	---	13.5	13.0	16.0	15.0	20.5	20.0	21.0	20.5	19.0	18.5
29	---	---	13.5	13.0	16.5	15.5	20.5	20.0	21.5	21.0	19.0	18.5
30	---	---	13.5	13.0	16.5	16.0	21.5	20.5	21.5	21.0	18.5	18.0
31	---	---	14.0	13.5	---	---	21.5	21.0	21.5	20.5	---	---
MONTH	---	---	14.0	10.0	16.5	13.0	21.5	16.0	21.5	19.0	21.5	18.0

14223600 KALAMA RIVER ABOVE SPENCER CREEK, NEAR KALAMA, WASH.

LOCATION.--Lat 46°02'51", long 122°50'11", in SE 1/4 sec. 32, T. 7 N., R. 1 W., Cowlitz County, on right bank at Modrow Road Bridge, 2.1 mi (3.4 km) north of Kalama city limits, 0.6 mi (1.0 km) upstream from Spencer Creek, and at mile 2.8 (4.5 km).

DRAINAGE AREA.--202 mi² (325 km²), approximately.

PERIOD OF RECORD.--Water temperatures: May to November 1970, July 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 18.0°C July 30, 31, Aug. 29; minimum recorded, 3.5°C Feb. 20, 27.

Period of record:

Water temperatures: Maximum, 21.0°C July 4, 1970; minimum, freezing point Dec. 7-13, 1972, Jan. 9, 1973.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	5.0	6.0	4.5
2	---	---	---	---	---	---	---	---	---	---	6.0	4.0
3	---	---	---	---	---	---	---	---	---	---	5.0	4.0
4	---	---	---	---	---	---	---	---	---	---	5.5	5.0
5	---	---	---	---	---	---	---	---	---	---	5.5	5.0
6	---	---	---	---	---	---	---	---	---	---	5.0	4.0
7	---	---	---	---	---	---	---	---	---	---	5.0	4.0
8	---	---	---	---	---	---	---	---	---	---	5.0	4.0
9	---	---	---	---	---	---	---	---	---	---	6.0	4.5
10	---	---	---	---	---	---	---	---	---	---	6.0	5.5
11	---	---	---	---	---	---	---	---	---	---	6.5	4.5
12	---	---	---	---	---	---	---	---	---	---	6.5	4.5
13	---	---	---	---	---	---	---	---	6.0	4.0	5.5	4.0
14	---	---	---	---	---	---	---	---	6.0	4.0	5.5	4.0
15	---	---	---	---	---	---	---	---	6.5	4.0	6.5	4.5
16	---	---	---	---	---	---	---	---	6.5	4.0	6.5	5.5
17	---	---	---	---	---	---	---	---	6.0	4.0	6.5	4.5
18	---	---	---	---	---	---	---	---	6.0	4.0	7.0	4.0
19	---	---	---	---	---	---	---	---	6.0	4.0	7.0	4.5
20	---	---	---	---	---	---	---	---	6.0	3.5	6.5	4.5
21	---	---	---	---	---	---	---	---	6.0	4.0	6.5	4.5
22	---	---	---	---	---	---	---	---	5.0	4.0	6.5	6.0
23	---	---	---	---	---	---	---	---	6.0	4.0	7.5	5.5
24	---	---	---	---	---	---	---	---	6.0	4.0	7.0	5.5
25	---	---	---	---	---	---	---	---	6.5	4.0	7.0	6.0
26	---	---	---	---	---	---	---	---	6.0	4.0	7.5	6.0
27	---	---	---	---	---	---	---	---	5.5	3.5	7.5	6.5
28	---	---	---	---	---	---	---	---	5.5	4.0	6.5	5.0
29	---	---	---	---	---	---	---	---	---	---	7.0	4.5
30	---	---	---	---	---	---	---	---	---	---	7.0	6.0
31	---	---	---	---	---	---	---	---	---	---	6.5	4.5
MONTH	---	---	---	---	---	---	---	---	---	---	7.5	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	4.5	8.0	6.5	11.5	10.0	13.5	11.0	15.0	14.5	17.5	13.0
2	6.5	5.5	7.5	6.5	11.5	9.0	12.5	9.0	---	---	16.0	13.0
3	6.5	4.0	9.0	7.0	10.5	9.0	14.0	9.5	---	---	15.5	13.0
4	6.5	5.0	10.0	8.0	9.0	8.0	14.5	12.5	---	---	15.0	12.5
5	7.0	5.5	10.0	9.0	8.5	7.0	13.0	11.5	---	---	15.5	12.0
6	7.0	5.5	10.5	8.5	8.5	6.5	13.0	11.0	---	---	15.5	12.5
7	7.0	5.5	9.0	8.0	9.5	6.5	14.5	11.5	---	---	15.5	12.0
8	7.0	5.5	9.5	8.0	11.0	8.0	13.5	12.0	---	---	15.5	12.0
9	7.0	6.0	9.0	7.5	11.0	9.0	11.5	11.0	17.0	13.5	15.0	11.5
10	6.5	5.5	8.0	7.0	12.0	9.0	12.5	9.5	16.0	11.5	13.5	11.0
11	7.5	6.0	8.5	7.0	12.0	9.0	12.0	9.5	15.5	13.5	13.5	11.5
12	6.5	4.0	8.0	7.0	12.0	9.0	12.5	10.5	14.5	11.5	13.0	11.0
13	8.0	4.5	7.0	6.0	12.5	10.5	14.0	11.5	13.0	10.5	12.5	10.5
14	9.0	6.5	8.0	6.0	12.5	9.0	15.0	12.0	14.0	11.0	12.5	10.5
15	9.0	6.5	7.0	6.5	12.0	9.0	14.0	12.0	15.5	10.5	13.5	12.0
16	8.0	6.5	7.5	4.5	13.0	9.5	12.0	11.0	16.0	12.0	13.0	11.5
17	8.5	6.0	7.5	6.5	13.0	12.0	12.0	11.0	14.5	13.0	13.0	11.5
18	9.0	7.0	7.5	6.5	13.0	11.5	12.0	11.0	14.0	11.0	13.0	12.0
19	7.5	6.5	8.0	6.0	13.0	11.5	14.0	11.5	13.0	10.5	13.0	12.0
20	7.5	6.0	8.0	7.0	12.5	10.5	14.0	12.0	13.0	10.5	13.0	12.0
21	8.5	6.5	9.5	7.0	13.0	11.5	14.0	12.5	14.5	9.5	13.5	12.0
22	9.0	7.5	9.5	8.5	13.0	11.5	14.0	12.0	14.5	11.0	13.0	12.0
23	7.5	6.5	9.0	8.0	12.5	11.0	14.5	12.0	14.0	11.0	13.0	12.0
24	7.5	6.5	8.5	8.0	13.0	11.0	15.0	13.0	16.0	11.5	13.0	12.0
25	7.0	6.0	9.5	8.0	12.0	9.0	15.5	13.5	17.0	12.0	12.5	11.5
26	7.0	6.0	9.5	8.0	10.0	9.0	16.0	13.5	16.5	12.0	12.5	12.0
27	7.5	6.5	9.5	7.0	11.0	9.0	17.0	13.5	16.0	12.0	12.0	11.0
28	7.5	6.5	10.0	8.0	13.5	9.0	17.5	14.0	17.5	12.5	11.0	10.0
29	9.0	7.0	10.0	8.0	15.0	12.0	17.5	14.5	18.0	13.0	10.5	9.5
30	9.5	7.5	9.5	8.0	15.5	13.0	18.0	14.5	16.0	13.0	10.5	9.5
31	---	---	10.5	8.5	---	---	18.0	14.5	15.5	13.0	---	---
MONTH	9.5	4.0	10.5	4.5	15.5	6.5	18.0	9.0	---	---	17.5	9.5

14245295 COLUMBIA RIVER AT RAINIER, OREG.

LOCATION.--Lat 46°06'02", long 122°57'47", in SE¼SW¼ sec.8, T.7 N., R.2 W., Columbia County, temperature recorder on left bank 1.2 mi (1.9 km) downstream from Nice Creek, 500 ft (152 m) upstream from Interstate bridge, and at mile 66.1 (106.4 km).

DRAINAGE AREA.--256,700 mi² (664,500 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.5°C Aug. 1-4; minimum, freezing point Jan. 9-13.

Period of record:

Water temperatures: Maximum, 22.5°C July 30 to Aug. 2, Aug. 8, 10, 12, 1973, Aug. 1-4, 1974; minimum, freezing point Jan. 9-13, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.0	12.5	7.5	7.5	6.0	5.5	---	---	---	---
2	---	---	12.5	11.5	7.5	7.5	5.5	4.5	---	---	---	---
3	---	---	11.5	11.0	7.5	7.5	4.5	3.5	---	---	---	---
4	---	---	11.0	10.5	7.5	7.0	3.0	2.5	---	---	---	---
5	---	---	10.5	10.5	7.5	7.0	2.5	1.5	---	---	---	---
6	---	---	10.0	10.0	7.0	7.0	1.5	1.0	---	---	---	---
7	---	---	10.0	10.0	7.0	7.0	1.0	0.5	---	---	---	---
8	---	---	10.0	10.0	7.0	6.5	0.5	0.5	---	---	6.5	6.0
9	16.0	15.5	10.5	10.0	6.5	6.5	0.5	0.0	---	---	6.5	6.0
10	15.5	15.5	10.0	10.0	6.5	6.5	0.0	0.0	---	---	6.5	6.5
11	15.5	15.5	9.5	9.0	6.5	6.5	0.0	0.0	---	---	6.5	6.0
12	15.5	15.5	9.5	9.0	6.5	6.5	0.0	0.0	---	---	6.5	6.5
13	15.5	15.0	9.0	9.0	6.5	6.5	0.5	0.0	---	---	6.5	6.5
14	15.5	15.0	9.0	9.0	6.5	6.5	1.5	0.5	---	---	7.0	6.5
15	15.0	15.0	9.0	8.5	6.5	6.5	2.5	1.5	---	---	7.0	7.0
16	15.5	15.0	8.5	8.0	7.0	6.5	4.0	2.5	---	---	7.0	7.0
17	15.5	15.0	8.0	8.0	7.0	7.0	5.0	4.0	---	---	7.5	7.0
18	15.5	15.0	8.0	8.0	7.0	7.0	5.5	5.0	---	---	8.0	7.5
19	15.5	15.0	8.0	7.5	7.5	7.0	5.5	5.0	---	---	8.0	7.5
20	15.0	15.0	7.5	7.5	7.0	7.0	5.0	4.0	---	---	8.0	7.5
21	15.5	15.0	7.5	7.0	7.0	7.0	5.0	4.5	---	---	8.0	7.5
22	15.0	14.5	7.0	7.0	7.0	7.0	5.0	4.5	---	---	8.0	7.5
23	15.0	14.5	7.0	7.0	7.0	7.0	5.5	5.0	---	---	8.0	8.0
24	14.5	14.0	7.0	6.5	7.5	7.0	5.5	5.0	---	---	8.5	8.0
25	14.0	14.0	7.0	7.0	7.0	6.5	5.5	5.0	---	---	8.5	8.0
26	14.0	14.0	7.0	7.0	6.5	6.5	5.0	5.0	---	---	8.5	8.0
27	14.0	13.5	7.0	7.0	6.5	6.5	5.5	4.5	---	---	8.5	8.0
28	14.0	13.5	7.5	7.0	6.5	6.0	4.5	4.5	---	---	8.5	8.5
29	13.5	13.5	7.5	7.0	6.0	6.0	4.5	4.0	---	---	8.5	8.5
30	13.5	13.0	7.5	7.0	6.0	6.0	---	---	---	---	9.0	8.5
31	13.0	13.0	---	---	6.5	6.0	---	---	---	---	9.0	8.5
MONTH	---	---	13.0	6.5	7.5	6.0	6.0	0.0	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	11.5	11.0	15.0	14.5	17.5	17.0	22.5	21.5	21.5	20.5
2	9.0	9.0	11.5	11.0	15.5	15.0	17.0	17.0	22.5	21.5	21.5	20.0
3	9.0	8.5	11.5	11.0	15.0	15.0	17.5	17.0	22.5	21.0	22.0	20.5
4	8.5	8.5	12.0	11.5	15.0	14.5	17.5	17.0	22.5	21.0	21.5	20.0
5	9.0	8.5	12.5	12.0	14.5	14.5	17.5	17.0	22.0	21.0	21.5	20.0
6	9.0	8.5	12.5	12.5	14.5	14.5	17.5	17.0	22.0	21.5	21.5	20.0
7	9.0	8.5	13.0	12.5	15.0	14.5	18.0	17.0	22.0	21.0	21.5	20.0
8	9.0	9.0	13.0	12.5	14.5	14.0	18.0	17.5	22.0	20.5	21.5	20.0
9	9.0	9.0	13.0	13.0	14.5	14.0	18.0	17.5	21.5	20.5	21.5	19.5
10	9.0	9.0	13.0	13.0	14.5	14.0	18.0	17.5	21.5	20.5	21.0	19.5
11	9.0	9.0	13.0	13.0	15.0	14.0	18.0	17.5	22.0	20.0	21.0	20.0
12	9.0	9.0	13.5	13.0	15.0	14.5	18.0	17.5	22.0	20.5	20.5	19.5
13	9.5	8.5	13.0	13.0	15.5	15.0	18.5	17.5	21.5	20.0	20.5	19.5
14	9.5	9.0	13.0	12.5	15.5	15.5	19.0	18.0	21.5	20.0	20.5	19.5
15	10.0	9.5	12.5	12.0	15.5	15.0	19.0	18.0	21.0	20.0	20.0	19.5
16	10.0	9.5	12.0	12.0	16.0	15.5	18.5	18.0	21.5	20.0	20.0	19.0
17	10.0	9.5	12.0	12.0	16.5	15.5	18.5	17.5	21.5	19.5	20.0	19.0
18	10.5	10.0	12.0	12.0	16.5	16.0	18.5	18.0	21.0	20.0	21.0	19.5
19	10.5	10.0	12.0	12.0	16.5	16.0	18.5	18.0	21.0	20.0	21.0	20.0
20	10.5	10.0	12.0	11.5	17.0	16.5	19.0	18.0	21.0	19.5	21.0	20.0
21	10.5	10.0	12.5	12.0	17.0	16.5	19.5	19.0	20.0	19.5	21.5	19.5
22	11.0	10.5	12.5	12.0	17.0	16.5	19.5	19.0	20.0	19.5	20.5	19.5
23	11.0	11.0	12.5	12.0	16.5	16.0	20.0	19.0	20.0	19.5	20.5	19.5
24	11.0	11.0	12.5	12.0	16.5	16.0	20.0	19.0	20.5	19.5	20.0	19.5
25	11.0	11.0	13.0	12.5	16.5	16.0	20.5	19.5	21.0	19.5	20.5	19.5
26	11.0	11.0	13.0	12.5	16.0	16.0	20.5	19.5	21.5	19.5	19.5	19.0
27	11.0	11.0	14.0	13.0	16.0	15.5	21.0	20.0	21.0	20.0	20.0	19.0
28	11.0	11.0	14.0	13.5	17.0	16.0	21.5	20.0	21.5	20.0	19.5	18.5
29	11.5	11.0	14.0	13.5	17.0	16.0	22.0	20.5	22.0	20.5	19.0	18.5
30	11.5	11.0	14.0	13.5	17.5	16.5	22.0	21.0	22.0	21.0	18.5	18.0
31	---	---	14.5	14.0	---	---	22.0	21.0	22.0	20.5	---	---
MONTH	11.5	8.5	14.5	11.0	17.5	14.0	22.0	17.0	22.5	19.5	22.0	18.0

14247295 COLUMBIA RIVER AT WAUNA, OREG.

LOCATION.--Lat 46°09'40", long 123°24'30", in SE¼ sec.22, T.8 N., R.6 W., Clatsop County, temperature recorder at gaging station on left bank, at northwest end of Crown-Zellerbach wood-pulp processing plant at Wauna, and at mile 41.0 (66.0 km).

DRAINAGE AREA.--257,000 mi² (665,600 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.5°C July 31 to Aug. 5, Aug. 7, 9; 0.5°C Jan. 11, 12.

Period of record:

Water temperatures: Maximum, 22.5°C July 29, 1973; minimum, 0.5°C Jan. 11, 12, 1974.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	13.0	12.0	7.5	7.5	6.0	5.5	5.5	5.5	5.5	5.5
2	17.5	16.5	12.5	11.5	8.0	7.5	5.5	5.0	5.5	5.5	5.5	5.5
3	17.5	16.5	12.5	11.0	8.5	7.5	5.0	4.0	5.5	5.5	5.5	5.5
4	17.5	16.5	12.0	10.5	8.5	7.5	4.0	3.5	5.5	5.5	5.5	5.5
5	16.5	16.0	10.5	10.0	8.5	7.5	3.5	2.5	5.5	5.5	5.5	5.5
6	16.0	15.5	10.0	10.0	8.0	7.5	2.5	2.0	5.5	5.0	5.5	5.5
7	15.5	15.0	10.0	9.5	8.0	7.0	2.5	2.0	5.5	5.0	5.5	5.5
8	15.5	15.0	9.5	9.5	8.0	7.0	2.0	1.5	5.0	5.0	5.5	5.5
9	16.0	15.0	9.5	9.5	7.0	6.5	1.5	1.0	5.0	5.0	5.5	5.5
10	16.0	15.0	9.5	9.5	7.0	6.5	1.0	1.0	5.5	5.0	6.0	6.0
11	15.5	15.0	9.5	9.5	7.0	6.5	1.0	0.5	5.0	4.5	6.0	6.0
12	15.0	15.0	9.5	9.0	8.0	6.5	1.0	0.5	5.0	4.5	6.0	6.0
13	15.5	14.5	9.5	9.0	8.0	6.5	1.5	1.0	5.0	4.5	6.0	6.0
14	15.5	14.5	10.0	9.0	7.0	6.5	2.0	1.0	5.0	4.5	6.0	6.0
15	15.5	14.5	9.0	9.0	7.0	6.5	2.5	2.0	5.0	4.5	6.5	6.0
16	15.5	14.5	9.0	8.5	7.0	6.5	4.0	2.5	5.0	5.0	6.5	6.5
17	15.5	14.5	8.5	8.0	7.0	7.0	4.5	4.0	5.0	5.0	6.5	6.5
18	15.5	14.5	8.0	8.0	7.0	7.0	5.0	4.5	5.0	5.0	7.0	6.5
19	15.5	14.5	8.0	8.0	7.0	7.0	5.0	5.0	5.0	5.0	7.5	7.0
20	15.0	14.5	8.0	7.5	7.5	7.0	5.0	5.0	5.0	5.0	7.5	7.0
21	15.0	14.5	7.5	7.5	7.0	7.0	5.0	4.5	5.5	5.0	7.5	7.0
22	14.5	14.5	7.5	7.0	7.0	7.0	4.5	4.5	5.5	5.0	7.5	7.5
23	14.5	14.0	8.0	7.0	7.0	7.0	4.5	4.5	5.5	5.0	7.5	7.5
24	14.5	14.0	8.5	7.0	7.0	7.0	4.5	4.5	5.5	5.0	7.5	7.5
25	14.5	13.5	7.5	7.0	7.0	7.0	5.0	4.5	5.5	5.0	8.5	7.5
26	14.0	13.5	7.5	7.0	7.0	6.5	5.0	4.5	5.5	5.0	8.0	8.0
27	13.5	13.5	7.5	7.0	6.5	6.5	5.0	4.5	5.5	5.0	8.5	8.0
28	14.5	13.0	7.5	7.0	6.5	6.0	5.0	5.0	5.5	5.0	8.0	8.0
29	14.0	13.0	7.5	7.5	6.0	6.0	5.0	5.0	---	---	8.5	8.0
30	13.5	13.0	7.5	7.5	6.0	6.0	5.0	5.0	---	---	8.5	8.5
31	13.5	12.5	---	---	6.0	6.0	5.5	5.0	---	---	8.5	8.5
MONTH	18.0	12.5	13.0	7.0	8.5	6.0	6.0	0.5	5.5	4.5	8.5	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.5	11.5	11.0	15.0	14.0	17.0	17.0	21.5	21.0	21.0	21.0
2	8.5	8.5	11.5	11.0	15.0	14.5	17.0	16.5	21.5	21.0	21.0	21.0
3	8.5	8.5	11.5	11.0	15.0	15.0	17.0	16.5	21.5	21.0	21.0	20.5
4	8.5	8.5	12.0	11.5	15.0	14.5	17.0	17.0	21.5	21.0	20.5	20.5
5	8.5	8.5	12.0	11.5	14.5	14.5	17.0	17.0	21.5	21.0	20.5	20.5
6	8.5	8.5	12.5	12.0	14.5	14.5	17.5	17.0	21.0	21.0	20.5	20.5
7	8.5	8.5	12.5	12.5	14.5	14.0	17.5	17.0	21.5	21.0	20.5	20.5
8	9.0	8.5	13.0	12.5	14.5	14.5	17.5	17.5	21.0	21.0	21.0	20.5
9	9.0	8.5	13.0	12.5	14.5	14.0	17.5	17.5	21.5	21.0	20.5	20.5
10	9.0	8.5	12.5	12.5	14.5	14.5	17.5	17.0	21.0	21.0	20.5	20.5
11	9.0	9.0	13.0	12.5	15.0	14.5	17.5	17.0	21.0	20.5	20.5	20.0
12	9.0	9.0	13.0	12.5	15.0	14.5	17.5	17.5	21.0	20.5	20.5	20.0
13	9.0	9.0	13.0	12.5	15.0	15.0	18.0	17.5	21.0	20.5	20.0	20.0
14	9.5	9.0	13.0	12.5	15.5	15.0	18.0	17.5	20.5	20.5	20.0	19.5
15	9.5	9.0	13.0	12.5	15.5	15.0	18.5	18.0	20.5	20.5	20.0	20.0
16	10.0	9.5	12.5	12.0	16.0	15.5	18.0	18.0	20.5	20.0	20.0	20.0
17	10.0	9.5	12.0	12.0	16.0	15.5	18.0	18.0	20.5	20.0	20.0	20.0
18	10.0	10.0	12.0	12.0	16.5	16.0	18.0	18.0	20.0	20.0	20.0	20.0
19	10.0	10.0	12.5	12.0	16.5	16.0	18.5	17.5	20.0	20.0	20.0	20.0
20	10.5	10.0	12.5	12.0	16.5	16.0	18.5	18.0	20.0	20.0	20.0	20.0
21	10.5	10.0	12.5	12.0	17.0	16.5	18.5	18.5	20.0	20.0	20.5	20.0
22	11.0	10.5	12.5	12.0	16.5	16.5	19.0	18.5	20.0	20.0	20.5	20.0
23	11.0	10.5	12.5	12.5	16.5	16.5	19.0	19.0	20.0	20.0	20.0	20.0
24	10.5	10.5	12.5	12.5	16.5	16.0	19.0	19.0	20.0	20.0	20.0	20.0
25	11.0	10.5	12.5	12.5	16.5	16.0	19.5	19.0	20.5	20.0	20.0	19.5
26	11.0	10.5	13.0	12.5	16.0	16.0	20.0	19.0	20.5	20.0	19.5	19.5
27	11.0	10.5	13.5	13.0	16.0	16.0	20.0	19.5	21.0	20.5	19.5	19.0
28	11.0	10.5	14.0	13.0	16.5	16.0	20.5	20.0	21.0	20.5	19.5	19.0
29	11.0	11.0	14.0	13.5	17.0	16.0	21.0	20.0	21.0	20.5	19.0	19.0
30	11.5	11.0	14.0	13.5	17.0	16.5	21.0	20.5	21.0	21.0	19.0	18.5
31	---	---	14.5	13.5	---	---	21.5	21.0	21.0	21.0	---	---
MONTH	11.5	8.5	14.5	11.0	17.0	14.0	21.5	16.5	21.5	20.0	21.0	18.5

COLUMBIA RIVER MAIN STEM

14247400 COLUMBIA RIVER AT BRADWOOD, OREG.

LOCATION.--Lat 46°11'45", long 123°25'50", in SW 1/4 sec. 9, T. 8 N., R. 6 W., Clatsop County, and at mile 38.9 (62.6 km).

DRAINAGE AREA.--257,100 mi² (665,900 km²).

PERIOD OF RECORD.--April to September 1974.

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
APR. 24...	16	16	4.7	6.9	1.5	72	0	13	3.5	.7	.27
MAY 08...	15	16	4.3	5.6	1.3	67	0	12	2.8	.3	.21
22...	14	--	--	--	--	56	0	10	2.5	--	.13
JUNE 06...	13	--	--	--	--	59	0	9.7	2.6	--	.08
19...	10	--	--	--	--	51	0	7.5	1.3	--	.17
JULY 02...	8.9	--	--	--	--	49	0	8.4	2.5	--	.08
17...	8.3	13	3.5	3.7	2.8	53	0	9.1	2.2	.1	--
AUG. 01...	6.9	--	--	--	--	57	0	8.1	2.3	--	.01
22...	6.0	--	--	--	--	--	--	--	--	--	.03
28...	--	--	--	--	--	--	--	--	--	--	--
SEP. 18...	6.1	--	--	--	--	--	--	--	--	--	.03
25...	8.0	18	8.6	5.6	1.3	--	--	--	--	.2	.06

DATE	TOTAL KJEL- DAHL GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 140 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
APR. 24...	.02	--	--	.24	.11	2.9	106	.14	59	0
MAY 08...	.31	--	--	.52	.08	--	97	.13	58	3
22...	.20	.04	.16	.33	.09	2.1	84	.11	--	--
JUNE 06...	.73	.71	.02	.81	.06	3.8	79	.11	--	--
19...	.67	.00	.74	.84	.03	3.1	62	.08	--	--
JULY 02...	.47	.45	.02	.55	.05	2.3	62	.08	--	--
17...	--	--	--	--	.05	2.6	--	.09	47	3
AUG. 01...	.51	.46	.05	.52	.07	3.0	69	.09	--	--
22...	.37	.23	.14	.40	.05	2.9	72	.10	--	--
28...	--	--	--	--	--	--	--	--	--	--
SEP. 18...	.22	.19	.03	.25	.03	2.6	87	.12	--	--
25...	.38	.23	.15	.44	.06	4.4	88	.12	80	--

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PH (UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREPTO- COCCI (COL- ONIES PER 100 ML)	TEMPER- ATURE (DEG C)	OIL AND GREASE (MG/L)	ALKAL- INITY AS CAC03 (MG/L)
APR. 24...	10	11.4	6.4	--	7	360	72	10.0	0	59
MAY 08...	10	11.6	6.7	--	5	160	50	12.0	--	55
22...	--	11.7	7.1	8	--	33	17	11.0	0	46
JUNE 06...	--	9.8	7.1	4	--	>250	15	11.5	1	48
19...	--	10.1	7.2	14	--	38	25	12.7	--	42
JULY 02...	--	10.0	7.3	11	--	300	8	16.0	--	40
17...	--	8.7	7.9	--	--	204	24	16.8	1	43
AUG. 01...	--	7.9	8.1	8	--	144	41	21.0	0	47
22...	--	8.8	7.9	8	--	164	13	19.0	1	--
28...	--	8.9	7.8	--	--	176	41	20.0	--	--
SEP. 18...	--	8.8	7.6	8	--	400	3	19.5	4	--
25...	--	8.6	--	18	--	500	4	19.0	0	--

COLUMBIA RIVER MAIN STEM

85

14247400 COLUMBIA RIVER AT BRADWOOD, OREG.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON (FF) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
APR. 24...	2	2	--	<10	--	30	--	<50	<10	--	1500	--
MAY 08...	0	1	2	<10	40	0	0	<50	20	560	1700	25
22...	--	1	--	<10	--	0	--	--	10	--	880	--
JUNE 06...	--	1	--	10	--	0	--	--	10	--	63	--
19...	--	2	--	<10	--	0	--	--	<10	--	1100	--
JULY 02...	--	1	--	<10	--	0	--	--	10	--	1500	--
AUG. 01...	--	1	--	<10	--	0	--	--	20	--	630	--
22...	--	2	--	<10	--	0	--	--	<10	--	390	--
SEP. 18...	--	2	--	<10	--	0	--	--	<10	--	110	--
25...	--	1	--	<10	--	0	--	--	<10	--	270	--

DATE	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)
APR. 24...	<100	--	50	--	40	1	0	--	--	--	--	--
MAY 08...	<100	50	50	50	110	0	1	--	--	--	--	--
22...	<100	--	--	--	40	--	0	--	14	3.8	5.1	1.3
JUNE 06...	<100	--	--	--	190	--	0	--	14	3.8	4.9	1.2
19...	<100	--	--	--	40	--	1	.0	12	3.2	3.9	1.1
JULY 02...	<100	--	--	--	40	--	0	.0	12	3.4	4.1	1.2
AUG. 01...	<100	--	--	--	30	--	1	--	13	3.9	3.8	.9
22...	<100	--	--	--	30	--	1	.6	--	--	--	--
SEP. 18...	<100	--	--	--	10	--	0	.0	--	--	--	--
25...	<100	--	--	--	10	--	0	.0	--	--	--	--

14248600 COLUMBIA RIVER AT ALTOONA, WASH.

LOCATION.--Lat 46°15'55", long 123°39'13", in SW¼ sec.15, T.19 N., R.8 W., Wahkiakum County, temperature recorder on right bank, on Bumblebee Canning Company dock, at Altoona, and at mile 27.3 (43.9 km).

DRAINAGE AREA.--258,000 mi² (668,200 km²), approximately.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.0°C Aug. 1-3; minimum, 0.5°C Jan. 11, 12.

Period of record:

Water temperatures: Maximum, 22.0°C Aug. 2, 1973, Aug. 1-3, 1974; minimum, 0.5°C Jan. 11, 12, 1974.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	17.0	13.0	12.5	8.0	7.5	6.0	6.0	5.0	5.0	5.0	5.0
2	17.5	17.0	12.5	12.5	8.0	7.5	6.0	5.0	5.5	5.0	5.5	5.0
3	17.5	17.0	12.0	11.5	8.0	7.5	5.0	4.5	5.5	5.0	5.0	5.0
4	17.5	16.5	11.5	11.0	7.5	7.5	4.5	3.5	5.0	5.0	5.0	5.0
5	17.0	16.5	11.0	10.5	7.5	7.5	3.5	3.0	5.0	5.0	5.0	5.0
6	16.5	16.0	10.5	10.5	7.5	7.5	3.0	2.5	5.0	5.0	5.0	5.0
7	16.0	15.5	10.5	10.0	7.5	7.5	2.5	2.0	5.0	5.0	5.0	5.0
8	15.5	15.0	10.0	10.0	7.5	7.5	2.0	1.5	5.0	4.5	5.0	5.0
9	15.5	15.0	10.0	10.0	7.5	7.0	1.5	1.5	5.0	4.5	5.5	5.0
10	15.5	15.0	10.0	10.0	7.0	7.0	1.5	1.0	5.0	4.5	5.5	5.5
11	15.0	15.0	10.0	10.0	7.0	7.0	1.0	0.5	4.5	4.5	5.5	5.5
12	15.0	15.0	10.0	9.5	7.0	6.5	1.0	0.5	4.5	4.5	6.0	5.5
13	15.0	15.0	9.5	9.5	6.5	6.5	1.5	1.0	4.5	4.5	6.5	5.5
14	15.0	15.0	9.5	9.0	6.5	6.5	2.0	1.5	4.5	4.5	6.0	6.0
15	15.0	14.5	9.5	9.0	7.0	7.0	3.0	2.0	5.0	4.5	6.0	6.0
16	15.5	15.0	9.0	9.0	7.0	7.0	4.0	2.5	5.0	4.5	6.0	6.0
17	15.5	14.5	9.0	8.5	7.5	7.0	4.5	4.0	5.0	4.5	6.0	6.0
18	15.0	15.0	8.5	8.5	7.5	7.5	4.5	4.5	4.5	4.5	6.5	6.0
19	15.0	15.0	8.5	8.0	7.5	7.0	4.5	4.5	5.0	4.5	7.0	6.5
20	15.0	15.0	8.0	8.0	7.5	7.0	4.5	4.0	5.0	5.0	7.0	6.5
21	15.0	15.0	8.0	8.0	7.0	7.0	4.0	3.5	5.0	5.0	7.0	7.0
22	15.0	14.5	8.0	7.5	7.0	7.0	3.5	3.5	5.0	4.5	7.0	7.0
23	15.0	14.5	7.5	7.5	7.0	7.0	4.0	3.5	5.0	4.5	7.5	7.0
24	14.5	14.5	7.5	7.5	7.0	7.0	4.0	4.0	5.0	4.5	7.5	7.0
25	14.5	14.0	7.5	7.5	7.0	7.0	4.5	4.0	5.0	4.5	7.5	7.0
26	14.0	14.0	7.5	7.5	7.0	6.5	4.5	4.5	5.0	4.5	7.5	7.5
27	14.0	14.0	7.5	7.5	6.5	6.5	4.5	4.5	5.0	5.0	7.5	7.5
28	14.0	13.5	8.0	7.5	6.5	6.5	4.5	4.5	5.0	5.0	8.0	7.5
29	14.0	13.5	8.0	7.5	6.5	6.0	5.0	4.5	---	---	8.0	7.5
30	13.5	13.5	8.0	7.5	6.0	6.0	5.0	5.0	---	---	8.0	7.5
31	13.5	13.0	---	---	6.0	6.0	5.0	5.0	---	---	8.0	7.5
MONTH	17.5	13.0	13.0	7.5	8.0	6.0	6.0	0.5	5.5	4.5	8.0	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	11.0	10.5	14.5	13.5	16.5	16.0	22.0	21.0	22.0	21.0
2	8.0	8.0	11.0	10.5	14.5	14.0	16.5	16.0	22.0	21.0	21.5	21.0
3	8.0	8.0	11.0	10.5	14.5	14.5	16.5	16.0	22.0	21.0	21.0	20.5
4	8.0	7.5	11.5	11.0	14.5	14.0	16.5	16.0	21.5	21.0	21.0	20.5
5	8.0	7.5	11.5	11.5	14.0	14.0	16.5	16.5	21.5	21.0	21.0	20.0
6	8.0	8.0	12.5	11.5	14.0	13.5	16.5	16.5	21.5	20.5	21.0	20.5
7	8.0	8.0	12.5	12.0	14.0	13.5	17.0	16.5	21.5	20.5	21.0	20.0
8	8.0	8.0	12.5	12.0	14.0	13.5	17.0	16.5	21.5	20.5	20.5	20.0
9	8.0	8.0	12.5	12.5	14.0	13.5	17.0	16.5	21.5	20.5	20.5	20.0
10	8.0	8.0	12.5	12.0	14.5	13.5	17.0	16.5	21.5	20.5	20.5	19.0
11	8.5	8.0	12.5	12.0	14.5	14.0	17.0	16.5	21.0	20.0	20.5	19.5
12	8.5	8.0	12.5	12.0	15.0	14.0	17.5	16.5	20.5	20.0	20.5	19.5
13	9.0	8.0	12.5	12.0	15.0	14.5	18.0	16.5	21.0	20.0	20.5	19.5
14	9.0	8.5	12.5	12.0	15.0	14.5	17.5	17.0	20.5	20.5	20.5	20.0
15	9.0	8.5	12.0	12.0	15.0	14.5	18.0	17.5	20.5	20.0	20.5	---
16	9.5	9.0	12.0	11.5	15.0	14.5	17.5	17.5	20.5	20.0	---	---
17	9.5	9.0	11.5	11.5	15.5	14.5	17.5	17.5	20.0	20.0	---	---
18	9.5	9.5	11.5	11.5	15.5	15.0	17.5	17.5	20.0	19.5	---	---
19	9.5	9.5	11.5	11.5	16.0	15.5	18.5	17.5	20.0	19.5	---	---
20	9.5	9.5	12.0	11.5	16.0	15.5	18.5	17.5	20.0	19.5	---	---
21	10.0	9.5	12.0	11.5	16.5	15.5	18.5	18.0	20.5	19.5	---	---
22	10.0	10.0	11.5	11.5	16.0	16.0	18.5	18.0	20.0	20.0	---	---
23	10.0	10.0	12.0	11.5	16.0	15.5	19.0	18.5	20.0	19.5	---	---
24	10.0	10.0	12.0	12.0	16.0	15.5	19.0	18.5	20.5	19.5	---	---
25	10.0	10.0	12.0	12.0	15.5	15.0	19.5	18.5	21.0	19.5	---	---
26	10.5	10.0	12.5	12.0	15.0	15.0	20.0	19.0	21.0	20.0	---	---
27	10.0	10.0	13.0	12.0	15.5	15.0	20.5	19.5	21.0	20.5	---	---
28	10.5	10.0	13.5	12.5	16.0	15.0	21.0	19.5	20.5	20.5	---	---
29	11.0	10.0	13.5	13.0	16.5	15.5	20.5	20.0	21.0	20.5	---	---
30	11.0	10.5	13.5	13.0	16.5	16.0	21.0	20.5	21.0	20.5	---	---
31	---	---	14.0	13.0	---	---	21.5	21.0	21.0	20.5	---	---
MONTH	11.0	7.5	14.0	10.5	16.5	13.5	21.5	16.0	22.0	19.5	---	---

14248700 BEAR CREEK NEAR SVENSEN, OREG.

LOCATION.--Lat 46°06'48", long 123°37'55", in NE 1/4 sec. 11, T. 7 N., R. 8 W., Clatsop County, temperature recorder at gaging station on right bank, 0.5 mi (0.8 km) upstream from Astoria Reservoir Dam, 3.8 mi (6.1 km) southeast of Svensen, and at mile 5.4 (8.7 km).

DRAINAGE AREA.--3.33 mi² (8.62 km²).

PERIOD OF RECORD.--Water temperatures: August 1965 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 12.0°C on several days July to September; minimum, 3.5°C Jan. 6.

Period of record:

Water temperatures: Maximum, 18.5°C Aug. 22, 1967; minimum, 1.0°C Dec. 8-11, 1972, Jan. 9, 1973.

REMARKS.--Recorder stopped Feb. 4-10, June 1-11, Aug. 4-15; range in temperature, 5.5°C to 6.5°C, 7.0°C to 10.5°C, and 9.5°C to 11.5°C, respectively.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	9.0	6.5	8.0	7.0	5.5	5.0	6.5	6.5	5.5	5.5
2	9.5	6.5	6.5	6.0	7.0	7.0	5.0	5.0	6.5	6.5	5.5	5.0
3	10.5	9.5	6.5	5.5	7.0	7.0	5.0	4.5	6.5	6.5	5.5	5.0
4	10.5	9.0	6.0	5.5	7.0	7.0	4.5	4.5	---	---	6.0	5.5
5	10.5	9.5	5.5	5.5	8.0	7.0	4.5	4.0	---	---	6.0	5.5
6	10.5	9.0	6.0	5.5	8.5	8.0	4.0	3.5	---	---	5.5	5.0
7	9.5	9.0	6.5	6.0	8.5	7.0	4.5	4.0	---	---	5.5	5.0
8	9.0	8.0	7.0	6.5	7.0	6.5	4.5	4.0	---	---	5.5	4.5
9	8.0	6.5	9.0	7.0	7.0	6.5	4.5	4.0	---	---	6.5	5.5
10	8.0	6.5	9.0	8.5	8.0	7.0	5.0	4.0	---	---	7.0	6.5
11	8.0	7.0	9.0	8.5	8.0	7.0	5.0	4.5	6.5	6.0	7.0	6.5
12	8.0	8.0	8.5	8.0	7.0	7.0	5.5	4.5	6.5	6.0	7.0	5.5
13	8.5	8.0	8.0	7.0	7.0	6.5	5.5	5.5	6.5	6.0	6.5	5.5
14	9.0	8.5	7.0	7.0	7.0	7.0	6.0	5.5	6.5	6.0	7.0	6.0
15	9.0	8.0	8.0	7.0	8.0	7.0	6.5	6.0	6.5	6.5	8.0	7.0
16	9.0	9.0	8.0	6.5	8.0	8.0	6.5	6.5	6.5	6.0	8.0	7.0
17	9.0	8.5	6.5	6.0	8.0	7.0	6.5	6.0	6.0	6.0	7.0	6.5
18	8.5	8.0	6.0	5.5	7.0	7.0	6.0	6.0	6.5	6.0	8.0	6.0
19	9.0	8.5	6.5	5.5	7.0	7.0	6.5	6.0	6.5	5.5	8.0	6.5
20	9.5	9.0	6.5	6.0	8.5	7.0	6.0	6.0	6.0	5.5	7.0	6.0
21	9.5	8.5	6.5	6.0	8.0	8.0	6.5	5.5	6.0	5.5	7.0	6.0
22	8.5	8.5	6.0	5.5	8.0	7.0	6.5	6.5	5.5	5.0	7.0	7.0
23	8.5	8.5	6.5	6.0	8.0	7.0	6.5	6.5	5.5	5.0	8.0	6.5
24	8.5	8.5	6.5	6.0	8.0	7.0	7.0	6.5	6.0	5.5	8.0	6.0
25	8.5	8.0	6.5	6.5	7.0	6.5	6.5	6.5	6.0	5.5	8.0	7.0
26	8.5	7.0	6.5	6.5	6.5	6.5	6.5	6.0	6.0	5.5	8.5	8.0
27	9.0	8.5	8.0	6.5	7.0	6.5	6.5	6.5	5.5	5.5	8.5	8.0
28	9.0	8.5	8.0	6.5	7.0	6.5	6.5	6.5	5.5	5.5	8.0	7.0
29	8.5	8.0	6.5	6.5	6.5	5.5	6.5	6.5	---	---	8.0	7.0
30	9.0	8.5	8.0	6.5	6.5	6.0	6.5	6.5	---	---	8.0	7.0
31	9.5	8.5	---	---	6.5	6.0	6.5	6.5	---	---	7.0	6.5
MONTH	10.5	6.5	9.0	5.5	8.5	5.5	7.0	3.5	---	---	8.5	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	7.0	6.5	---	---	10.0	9.0	12.0	10.0	11.5	10.0
2	7.0	6.5	8.0	6.5	---	---	9.5	9.0	11.5	10.0	11.5	11.0
3	7.0	6.5	8.5	6.5	---	---	10.5	8.5	11.5	10.0	11.5	11.0
4	7.0	6.5	9.5	6.0	---	---	10.5	9.5	---	---	11.0	10.5
5	7.0	6.5	9.0	6.5	---	---	9.5	9.0	---	---	10.5	10.0
6	7.0	6.0	9.0	8.0	---	---	9.0	9.0	---	---	11.0	10.0
7	8.0	6.0	8.5	8.0	---	---	10.0	8.5	---	---	11.0	9.5
8	7.0	6.5	8.5	7.0	---	---	10.0	9.0	---	---	11.0	10.5
9	7.0	6.5	8.0	6.5	---	---	10.0	9.5	---	---	11.0	10.5
10	7.0	6.0	8.0	6.5	---	---	10.0	9.5	---	---	11.0	10.0
11	7.0	6.0	8.0	7.0	---	---	9.5	9.0	---	---	10.5	9.5
12	7.0	6.0	7.0	6.5	11.0	9.5	10.0	9.0	---	---	10.5	9.5
13	8.0	5.5	6.5	6.0	11.0	9.0	10.5	8.5	---	---	11.0	10.0
14	8.5	6.5	7.0	6.0	10.0	9.0	10.5	9.0	---	---	11.0	10.0
15	8.0	6.5	6.5	6.0	9.5	9.0	9.5	8.5	---	---	11.0	10.0
16	8.5	6.0	6.5	6.0	10.5	9.0	9.5	9.0	10.5	9.0	10.5	9.0
17	9.0	6.5	7.0	5.5	11.0	8.5	10.5	9.5	10.5	9.5	11.0	9.5
18	7.0	6.5	7.0	6.5	10.5	9.0	10.0	10.0	10.0	9.5	11.0	10.0
19	7.0	6.5	7.0	6.5	10.5	9.0	10.5	9.5	10.0	9.5	12.0	10.5
20	8.0	6.5	8.0	6.5	10.5	9.0	11.0	9.0	10.0	9.5	12.0	11.0
21	8.5	6.5	8.5	6.5	10.5	8.5	11.0	9.5	10.5	9.0	12.0	11.0
22	8.0	6.5	8.0	7.0	10.0	9.0	10.5	9.5	10.5	10.0	11.5	10.5
23	7.0	6.0	8.0	7.0	10.0	8.5	10.0	10.0	10.5	10.0	11.5	10.5
24	6.5	6.0	8.5	8.0	10.0	8.0	10.5	9.5	11.0	10.0	12.0	11.5
25	7.0	5.5	9.0	8.5	9.5	8.5	11.0	9.5	11.5	10.0	12.0	10.0
26	7.0	6.0	8.5	8.0	9.0	8.0	11.5	9.5	11.5	10.0	11.0	10.0
27	7.0	6.5	9.0	6.5	9.5	9.0	11.5	10.0	11.5	10.5	10.0	9.5
28	8.0	6.5	9.0	7.0	10.5	8.5	12.0	10.5	11.5	10.5	10.0	9.0
29	9.5	6.5	8.0	8.0	11.5	9.0	12.0	10.5	11.5	10.5	9.5	8.0
30	8.0	6.5	8.5	7.0	11.5	10.0	12.0	10.0	11.0	10.5	11.0	8.5
31	---	---	9.5	6.5	---	---	12.0	10.5	10.5	10.0	---	---
MONTH	9.5	5.5	9.5	5.5	---	---	12.0	8.5	---	---	12.0	8.0

14303600 NESTUCCA RIVER NEAR BEAVER, OREG.

LOCATION.--Lat 45°16'00", long 123°50'45", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.3 S., R.10 W., Tillamook County, temperature recorder at gaging station on right bank, 150 ft (46 m) upstream from Saling Creek, 1.2 mi (1.9 km) southwest of Beaver, and at mile 13.5 (21.7 km).

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 20.0°C July 30; minimum, 3.5°C Jan. 6-10.

Period of record:

Water temperatures: Maximum, 24.0°C July 1-3, 1967; minimum, 1.0°C sometime during period Dec. 28, 1968, to Feb. 8, 1969.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	9.0	8.5	7.0	7.0	7.0	6.5	8.5	8.5	5.5	5.5
2	11.5	10.5	8.5	7.0	7.0	7.0	6.5	5.5	8.5	8.5	5.5	5.5
3	11.0	10.0	7.0	6.5	7.0	7.0	5.5	5.0	8.5	8.5	5.5	5.5
4	10.5	10.0	6.5	6.5	7.0	7.0	5.0	4.5	8.5	8.0	5.5	5.5
5	10.5	10.0	6.5	6.5	8.0	7.0	4.5	4.0	8.0	8.0	5.5	5.5
6	10.5	10.5	6.5	6.5	8.0	8.0	4.0	3.5	8.0	8.0	5.5	5.0
7	10.5	10.0	6.5	6.0	8.0	8.0	4.0	3.5	8.0	7.0	5.0	4.5
8	10.0	10.0	6.5	6.0	8.0	7.0	4.0	3.5	7.0	6.5	4.5	4.5
9	10.0	9.0	7.0	6.5	7.0	6.5	3.5	3.5	7.0	6.5	5.0	4.5
10	9.5	9.5	8.5	7.0	7.0	6.5	4.0	3.5	7.0	6.5	5.5	5.0
11	10.0	9.5	8.5	8.5	7.0	7.0	4.0	4.0	6.5	6.5	5.5	5.0
12	10.5	10.0	8.5	8.0	7.0	7.0	6.0	4.0	6.5	6.0	5.5	5.0
13	10.5	10.5	8.0	7.0	7.0	7.0	6.5	6.0	6.0	6.0	5.0	4.5
14	11.0	10.5	7.0	7.0	7.0	7.0	8.0	6.5	6.0	5.5	5.5	5.0
15	11.0	10.5	7.0	7.0	8.0	7.0	8.0	8.0	6.0	6.0	6.0	5.5
16	11.0	10.5	7.0	7.0	8.0	8.0	8.0	8.0	6.0	6.0	6.0	6.0
17	11.0	10.5	7.0	6.5	8.0	8.0	8.0	8.0	6.0	5.5	6.0	5.5
18	10.5	10.0	6.5	6.0	8.0	8.0	8.5	8.0	6.0	5.5	6.0	5.5
19	10.5	10.0	6.0	6.0	8.0	8.0	8.5	8.5	6.0	5.5	6.0	5.5
20	10.5	10.0	6.0	6.0	9.0	8.0	8.5	8.5	6.0	5.5	6.0	5.5
21	10.5	10.0	6.0	6.0	9.0	8.5	8.5	8.0	6.0	5.5	6.0	5.5
22	10.0	10.0	6.0	6.0	8.5	8.5	8.5	8.0	5.5	5.5	6.0	5.5
23	10.0	10.0	6.0	6.0	8.5	8.5	9.0	8.5	5.5	5.5	6.5	5.5
24	10.0	10.0	6.0	6.0	9.0	8.5	9.0	9.0	5.5	5.5	6.0	5.5
25	10.0	10.0	6.5	6.0	8.5	8.5	9.0	8.5	6.0	5.5	6.5	6.0
26	10.0	9.5	7.0	6.5	8.5	8.5	8.5	8.0	6.0	5.5	6.5	6.0
27	10.0	9.5	7.0	7.0	9.0	8.5	8.5	8.0	5.5	5.5	6.5	6.5
28	9.5	9.5	7.0	7.0	9.0	8.5	8.5	8.5	5.5	5.5	6.5	6.0
29	9.5	9.5	7.0	7.0	8.5	8.5	8.5	8.5	---	---	6.0	6.0
30	9.5	9.5	7.0	7.0	8.5	8.0	8.5	8.5	---	---	6.0	6.0
31	9.5	9.0	---	---	8.0	7.0	8.5	8.5	---	---	6.0	5.5
MONTH	12.0	9.0	9.0	6.0	9.0	6.5	9.0	3.5	8.5	5.5	6.5	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	10.0	9.5	13.5	11.0	17.0	16.0	19.5	18.0	19.0	17.0
2	6.0	5.5	9.5	9.0	13.0	12.0	16.0	15.0	19.0	17.0	18.5	18.0
3	6.0	5.5	10.5	9.0	12.0	12.0	17.0	15.0	19.0	17.0	18.5	18.0
4	6.0	6.0	11.5	10.0	12.0	11.5	17.0	16.5	19.0	17.0	18.0	16.5
5	6.5	6.0	11.5	11.0	11.5	11.0	16.5	16.0	18.5	17.0	18.0	16.5
6	6.5	6.0	11.5	11.0	11.0	10.5	16.0	15.0	18.0	15.5	18.5	16.5
7	6.5	6.0	11.5	11.0	10.5	10.0	16.5	15.0	16.5	15.5	18.0	16.5
8	6.5	6.5	12.0	11.0	11.5	10.0	16.5	16.0	18.0	16.0	17.0	16.5
9	6.5	6.5	11.5	10.5	11.0	11.0	16.0	15.0	18.5	16.0	16.5	16.0
10	6.5	6.5	10.5	10.0	14.0	12.0	15.0	14.5	18.5	16.5	17.0	16.0
11	6.5	6.5	10.0	10.0	14.0	13.0	15.5	14.5	18.0	17.0	16.5	15.0
12	6.5	6.5	10.0	9.5	14.5	13.5	16.0	15.0	17.0	16.0	16.0	14.5
13	6.5	6.0	9.5	9.0	14.5	13.5	18.0	15.0	16.0	15.0	16.0	14.5
14	7.0	6.5	9.0	9.0	14.5	14.0	17.0	16.0	15.5	15.0	16.0	15.0
15	7.0	6.5	9.0	8.5	15.0	14.0	16.0	15.0	16.5	15.0	16.0	15.0
16	7.0	6.5	8.5	8.0	16.5	14.5	15.5	14.5	17.0	15.5	16.5	15.0
17	7.0	6.5	8.5	8.0	18.0	15.5	15.0	14.5	17.0	16.5	16.5	15.0
18	7.0	7.0	8.0	8.0	17.0	16.0	14.5	14.5	17.0	15.5	16.5	15.0
19	7.0	6.5	8.5	8.0	16.5	16.0	15.0	14.0	16.0	15.5	17.0	15.5
20	7.0	6.5	9.5	8.5	18.0	15.5	16.5	14.5	15.5	15.0	16.5	15.5
21	8.5	6.5	10.5	9.0	18.0	16.0	16.5	16.0	16.5	15.0	16.0	15.5
22	9.0	8.5	10.0	9.5	17.0	16.5	16.0	15.5	16.5	16.0	16.5	15.5
23	8.5	8.0	9.5	9.5	16.5	14.5	18.0	15.0	16.5	16.0	16.5	15.0
24	8.5	8.0	9.5	9.5	16.5	14.5	18.5	16.0	19.0	16.5	16.0	15.0
25	8.5	8.0	10.5	9.5	16.0	14.5	19.0	16.0	19.5	17.0	16.0	15.5
26	8.5	8.0	10.5	10.0	14.5	14.0	19.0	16.5	19.5	18.0	15.5	15.0
27	8.5	8.5	12.0	10.5	14.5	14.0	19.0	17.0	19.0	18.0	15.0	13.5
28	9.0	8.5	12.0	11.0	16.5	14.0	19.0	17.0	19.0	18.0	14.0	13.0
29	10.5	8.5	11.5	10.5	19.0	15.0	19.5	18.0	18.5	18.0	13.5	13.0
30	10.5	10.0	11.0	10.0	18.5	17.0	20.0	18.5	18.0	17.0	13.5	13.0
31	---	---	12.0	10.5	---	---	19.5	18.0	18.0	17.0	---	---
MONTH	10.5	5.5	12.0	8.0	19.0	10.0	20.0	14.0	19.5	15.0	19.0	13.0

14306030 YAUQUINA RIVER NEAR CHITWOOD, OREG.

LOCATION.--Lat 44°39'29", long 123°50'15", in NE¼SW¼ sec.31, T.10 S., R.9 W., Lincoln County, on left bank 200 ft (60 m) below Thornton Creek and 1.1 mi (1.8 km) west of Chitwood.

DRAINAGE AREA.--71.0 mi² (183.9 km²).

PERIOD OF RECORD.--Sediment records: October 1972 to September 1974 (discontinued).

EXTREMES.--1973-74:

Sediment concentrations: Maximum daily, 461 mg/l Jan. 15; minimum daily, 0 mg/l May 8, June 4.

Sediment discharge: Maximum daily, 5,340 tons (4,840 tonnes) Jan. 16; minimum daily, 0.00 tons (0.00 tonnes) May 8, June 4.

Period of record:

Sediment concentrations: Maximum daily, 461 mg/l Jan. 15, 1974; minimum daily, 0 mg/l May 8, June 4, 1974.

Sediment discharge: Maximum daily, 5,340 tons (4,840 tonnes) Jan. 16, 1974; minimum daily, 0.00 tons (0.00 tonnes) May 8, June 4, 1974.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13	5	.18	452	63	91	756	39	80
2	13	5	.18	204	10	5.5	574	31	48
3	12	5	.16	141	6	2.3	483	26	34
4	11	5	.15	220	10	5.9	429	20	23
5	11	5	.15	301	19	15	405	23	25
6	20	5	.27	244	7	4.6	384	18	19
7	33	5	.45	212	5	2.9	807	63	137
8	30	5	.41	258	4	2.8	898	42	102
9	27	5	.36	1360	271	1350	674	23	42
10	22	5	.30	1060	105	301	523	18	25
11	20	5	.27	1030	64	178	448	16	19
12	20	5	.27	1230	50	166	526	20	28
13	18	5	.24	1490	80	322	1230	91	307
14	18	5	.24	1510	70	285	1250	58	196
15	17	5	.23	3490	325	3790	1220	47	155
16	17	3	.14	4420	334	4610	1470	67	266
17	16	2	.09	1730	106	495	1740	94	442
18	16	2	.09	1000	62	167	1490	63	253
19	15	4	.16	681	50	92	1040	42	118
20	18	3	.15	713	46	89	965	39	102
21	33	4	.36	1340	196	752	1470	68	270
22	34	6	.55	1350	55	200	1250	43	145
23	37	5	.50	1100	45	134	1060	32	92
24	48	7	.91	1130	48	146	981	49	130
25	48	6	.78	1200	48	156	1120	49	148
26	42	6	.68	1280	35	121	914	30	74
27	36	6	.58	1180	50	159	1090	50	147
28	48	4	.52	1440	68	264	1550	85	356
29	61	7	1.2	1430	66	255	1350	50	182
30	50	6	.81	1010	49	134	1170	40	126
31	278	40	53	--	--	--	914	34	84
TOTAL	1082	--	64.38	34206	--	14296.0	30181	--	4175
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	709	30	57	1250	75	253	1690	92	420
2	574	19	29	1050	53	150	1590	83	356
3	477	19	24	807	38	83	1240	70	234
4	402	13	14	774	34	71	1010	53	145
5	355	14	13	781	35	74	1720	86	399
6	313	10	8.5	684	33	61	2200	82	487
7	281	8	6.1	557	32	48	1270	82	281
8	252	8	5.4	461	29	36	856	53	122
9	228	8	4.9	399	24	26	638	43	74
10	210	7	4.0	355	16	15	516	37	52
11	192	8	4.1	316	13	11	445	28	34
12	223	17	10	295	12	9.6	510	38	52
13	695	10	19	264	12	8.6	752	54	110
14	1320	180	642	255	22	15	1050	70	198
15	3280	461	4150	264	29	21	1420	80	307
16	4300	442	5340	483	72	94	1070	41	118
17	3090	265	2210	818	85	188	781	34	72
18	1670	160	721	879	65	154	606	28	46
19	1510	114	465	1870	236	1190	496	46	62
20	1130	80	244	1270	120	411	417	23	26
21	815	66	145	921	66	164	358	22	21
22	656	54	96	770	44	91	310	16	13
23	602	42	68	695	40	75	275	10	7.4
24	624	33	56	613	26	43	247	16	11
25	649	31	54	564	24	37	228	11	6.8
26	778	44	92	727	60	118	207	13	7.3
27	957	58	150	1100	90	267	202	8	4.4
28	1200	60	194	1800	215	1040	423	77	88
29	993	24	64	--	--	--	606	62	101
30	856	20	46	--	--	--	910	113	278
31	993	29	78	--	--	--	989	100	267
TOTAL	30334	--	15014.0	21022	--	4754.2	25032	--	4399.9

14306030 YAOQUINA RIVER NEAR CHITWOOD, OREG.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

APRIL				MAY				JUNE			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	807	82	179	107	10	2.9	77	2	.42		
2	818	64	141	107	5	1.4	73	2	.39		
3	917	38	94	97	3	.79	69	2	.37		
4	860	49	114	90	6	1.5	107	0	0		
5	727	43	84	88	4	.95	192	11	5.7		
6	624	45	76	84	4	.91	171	10	4.6		
7	571	38	59	79	3	.64	151	7	2.9		
8	523	28	40	75	0	0	130	7	2.5		
9	526	17	24	71	1	.19	117	7	2.2		
10	533	16	23	79	1	.21	107	7	2.0		
11	674	52	95	102	2	.55	100	6	1.6		
12	811	42	92	104	3	.84	95	6	1.5		
13	663	31	55	88	1	.24	86	7	1.6		
14	526	24	34	107	2	.58	81	11	2.4		
15	432	20	23	143	6	2.3	77	11	2.3		
16	363	10	9.8	189	7	3.6	73	11	2.2		
17	316	8	6.8	225	10	6.1	69	11	2.0		
18	275	22	16	225	6	3.6	65	11	1.9		
19	244	25	16	200	4	2.2	63	11	1.9		
20	231	28	17	177	1	.48	59	11	1.8		
21	205	28	15	154	1	.42	55	11	1.6		
22	189	28	14	141	1	.38	53	11	1.6		
23	177	21	10	130	2	.70	51	11	1.5		
24	165	22	9.8	133	1	.36	48	11	1.4		
25	151	14	5.7	125	2	.68	51	11	1.5		
26	143	26	10	112	1	.30	59	11	1.8		
27	133	18	6.5	104	2	.56	59	11	1.8		
28	122	12	4.0	97	2	.52	51	11	1.5		
29	114	20	6.2	93	2	.50	45	11	1.3		
30	109	15	4.4	88	2	.48	41	11	1.2		
31	--	--	--	81	2	.44	--	--	--		
TOTAL	12949	--	1284.2	3695	--	35.32	2475	--	55.48		
JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	40	11	1.2	17	3	.14	9.7	3	.08		
2	38	11	1.1	16	3	.13	9.0	3	.07		
3	37	11	1.1	16	3	.13	9.0	3	.07		
4	35	11	1.0	15	3	.12	8.4	3	.07		
5	35	11	1.0	15	3	.12	8.4	3	.07		
6	34	11	1.0	14	3	.11	7.3	3	.06		
7	33	11	.98	14	3	.11	6.8	3	.06		
8	40	11	1.2	14	3	.11	6.4	3	.05		
9	59	11	1.8	14	3	.11	9.0	3	.07		
10	48	11	1.4	13	3	.11	9.7	3	.08		
11	40	11	1.2	12	3	.10	9.0	3	.07		
12	37	11	1.1	12	3	.10	6.8	3	.06		
13	33	11	.98	12	3	.10	5.9	3	.05		
14	30	11	.89	13	3	.11	5.4	3	.04		
15	30	11	.89	13	3	.11	5.0	3	.04		
16	30	11	.89	12	3	.10	5.4	3	.04		
17	45	11	1.3	12	3	.10	5.0	3	.04		
18	45	11	1.3	11	3	.09	5.0	3	.04		
19	37	11	1.1	12	3	.10	5.0	3	.04		
20	30	11	.89	12	3	.10	5.0	3	.04		
21	27	11	.80	12	3	.10	5.0	3	.04		
22	26	11	.77	10	3	.08	4.5	3	.04		
23	25	11	.74	9.7	3	.08	4.5	3	.04		
24	23	11	.68	10	3	.08	4.2	3	.03		
25	23	11	.68	9.7	3	.08	3.8	3	.03		
26	22	11	.65	9.0	3	.07	3.4	3	.03		
27	21	11	.62	8.4	3	.07	3.4	3	.03		
28	20	11	.59	8.4	3	.07	3.4	3	.03		
29	20	11	.59	8.4	3	.07	3.8	3	.03		
30	19	11	.56	9.7	3	.08	4.2	3	.03		
31	18	11	.53	10	3	.08	--	--	--		
TOTAL	1000	--	29.53	374.3	--	3.06	181.4	--	1.47		
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									162531.7		
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									44112.54		

14306500 ALSEA RIVER NEAR TIDEWATER, OREG.

LOCATION.--Lat 44°23'10", long 123°49'50", in NW¼NW¼ sec.6, T.14 S., R.9 W., Lincoln County, on right bank 0.9 mi (1.4 km) downstream from Grass Creek, 2.5 mi (4.0 km) upstream from Scott Creek, 3.8 mi (6.1 km) southeast of Tidewater, and at mile 21.0 (33.8 km).

DRAINAGE AREA.--334 mi² (865 km²).

PERIOD OF RECORD.--Sediment records: October 1972 to September 1974 (discontinued).

EXTREMES.--1973-74:

Sediment concentrations: Maximum daily, 572 mg/l Nov. 16; minimum daily, 0 mg/l March 26.

Sediment discharge: Maximum daily, 47,000 tons (42,600 tonnes) Jan. 16; minimum daily, 0.00 tons (0.00 tonnes) March 26.

Period of record:

Sediment concentrations: Maximum daily, 572 mg/l Nov. 16, 1973; minimum daily, 0 mg/l March 26, 1974.

Sediment discharge: Maximum daily, 47,000 tons (42,600 tonnes) Jan. 16, 1974; minimum daily, 0.00 tons (0.00 tonnes) March 26, 1974.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	147	5	2.0	1580	63	269	4790	12	155
2	137	5	1.8	859	18	42	3910	51	538
3	131	5	1.8	615	6	10	3560	28	269
4	124	5	1.7	1190	15	48	3210	14	121
5	119	5	1.6	1610	18	78	2860	17	131
6	150	5	2.0	1400	6	23	2710	17	124
7	258	5	3.5	1340	7	25	6220	36	605
8	206	5	2.8	1480	8	32	5260	36	511
9	174	5	2.3	9520	90	2310	3880	28	293
10	155	5	2.1	5960	58	933	3130	22	186
11	145	5	2.0	5770	30	467	2860	26	201
12	146	5	2.0	7650	42	868	4740	40	512
13	140	5	1.9	8350	36	812	10100	100	2760
14	133	5	1.8	8520	34	782	8260	34	758
15	127	5	1.7	20100	393	27300	7250	26	509
16	123	5	1.7	20700	572	34200	8610	56	1300
17	120	5	1.6	8830	250	5960	10600	78	2230
18	117	5	1.6	5330	100	1440	8310	38	853
19	114	5	1.5	3730	18	181	5790	9	141
20	122	5	1.6	4160	16	180	8090	26	568
21	205	7	3.9	6930	53	1040	14900	80	3220
22	218	8	4.7	6200	11	184	9350	14	353
23	210	6	3.4	5040	18	245	7760	7	147
24	257	8	5.6	5280	15	214	6150	12	199
25	381	9	9.3	5760	42	653	5890	12	191
26	340	8	7.3	6310	52	886	4730	3	38
27	273	7	5.2	6020	58	982	5180	22	308
28	282	11	8.4	7440	61	1310	7350	72	1430
29	327	1	0.88	7920	40	855	6830	70	1290
30	286	10	7.7	6140	52	862	6030	37	602
31	708	43	82	--	--	--	4820	26	338
TOTAL	6375	--	177.38	181734	--	83191	193130	--	20881
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3890	25	263	6900	178	3390	9580	64	1660
2	3230	26	227	5370	34	493	9430	95	2420
3	2730	24	177	4150	38	426	6820	42	773
4	2350	16	102	4210	40	455	5300	39	558
5	2070	13	73	4040	11	120	6410	60	1040
6	1830	11	54	3400	37	340	7800	72	1520
7	1640	8	35	2880	14	109	5450	6	88
8	1500	8	32	2490	52	350	4150	12	134
9	1380	18	67	2190	26	154	3320	26	233
10	1270	6	21	1950	18	95	2890	32	250
11	1190	8	26	1770	10	48	2810	40	303
12	1720	15	70	1690	20	91	3690	8	80
13	8060	261	6010	1560	16	67	4240	13	149
14	10700	230	6860	1800	12	58	5600	22	333
15	26900	569	44600	1910	6	31	7070	96	1830
16	31000	547	47000	4510	62	755	5290	32	457
17	18300	280	13800	5480	95	1410	4170	70	788
18	10600	165	4720	5650	28	427	3350	9	81
19	9140	125	3080	10300	127	3850	2820	14	107
20	6420	114	1980	6550	21	371	2420	12	78
21	4740	80	1020	5080	28	384	2110	11	63
22	3830	20	207	4380	12	142	1880	11	56
23	3310	100	894	3760	3	30	1690	2	9.1
24	2970	26	208	3230	2	17	1540	2	8.3
25	2930	30	237	2960	16	128	1480	6	24
26	3430	110	1020	3980	125	1340	1360	0	0
27	3420	25	231	4880	115	1520	1420	3	12
28	3390	29	265	10700	131	3840	4400	31	368
29	3120	18	152	--	--	--	4890	6	79
30	3080	15	125	--	--	--	6130	22	364
31	5030	275	3900	--	--	--	5700	7	108
TOTAL	185170	--	137456	117770	--	20441	135210	--	13973.4

14306500 ALSEA RIVER NEAR TIDEWATER, OREG.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4850	28	367	716	5	9.7	404	5	5.5
2	5250	31	439	707	5	9.5	398	5	5.4
3	5060	18	246	671	5	9.1	378	5	5.1
4	4250	22	252	640	5	8.6	418	5	5.6
5	3610	13	127	620	5	8.4	810	5	11
6	3230	10	87	599	5	8.1	604	5	8.2
7	2920	7	55	580	5	7.8	541	5	7.3
8	2620	4	28	560	5	7.6	490	5	6.6
9	2590	7	49	545	5	7.4	455	5	6.1
10	2410	2	13	552	5	7.5	427	5	5.8
11	2570	5	35	587	5	7.9	404	5	5.5
12	2650	5	36	599	5	8.1	388	5	5.2
13	2310	5	31	545	5	7.4	368	5	5.0
14	2040	5	28	628	5	8.5	358	5	4.8
15	1820	5	25	758	5	10	355	5	4.8
16	1650	5	22	855	5	12	342	5	4.6
17	1500	5	20	865	5	12	326	5	4.4
18	1400	5	19	801	5	11	314	5	4.2
19	1290	5	17	730	5	9.9	302	5	4.1
20	1240	5	17	680	5	9.2	299	5	4.0
21	1140	5	15	628	5	8.5	290	5	3.9
22	1080	5	15	595	5	8.0	281	5	3.8
23	1060	5	14	576	5	7.8	281	5	3.8
24	1040	5	14	560	5	7.6	270	5	3.6
25	953	5	13	545	5	7.4	278	5	3.8
26	896	5	12	515	5	7.0	311	5	4.2
27	855	5	12	490	5	6.6	302	5	4.1
28	816	5	11	468	5	6.3	293	5	4.0
29	777	5	10	455	5	6.1	264	5	3.6
30	744	5	10	437	5	5.9	248	5	3.3
31	--	--	--	427	5	5.8	--	--	--
TOTAL	64621	--	2039	18934	--	256.7	11199	--	151.3
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	237	3	1.9	146	3	1.2	111	3	.90
2	237	3	1.9	140	3	1.1	107	3	.87
3	229	3	1.9	138	3	1.1	103	3	.83
4	224	3	1.8	134	3	1.1	95	3	.77
5	219	3	1.8	134	3	1.1	95	3	.77
6	224	3	1.8	132	3	1.1	95	3	.77
7	214	3	1.7	128	3	1.0	91	3	.74
8	253	3	2.0	126	3	1.0	89	3	.72
9	332	3	2.7	126	3	1.0	97	3	.79
10	358	3	2.9	124	3	1.0	107	3	.87
11	284	3	2.3	118	3	.96	101	3	.82
12	253	3	2.0	116	3	.94	91	3	.74
13	232	3	1.9	126	3	1.0	82	3	.66
14	216	3	1.7	122	3	.99	78	3	.63
15	209	3	1.7	124	3	1.0	76	3	.62
16	209	3	1.7	120	3	.97	76	3	.62
17	287	3	2.3	116	3	.94	76	3	.62
18	342	3	2.8	113	3	.92	75	3	.61
19	284	3	2.3	113	3	.92	71	3	.58
20	250	3	2.0	120	3	.97	69	3	.56
21	227	3	1.8	120	3	.97	69	3	.56
22	209	3	1.7	113	3	.92	69	3	.56
23	197	3	1.6	111	3	.90	68	3	.55
24	190	3	1.5	109	3	.88	66	3	.53
25	183	3	1.5	107	3	.87	64	3	.52
26	178	3	1.4	103	3	.83	62	3	.50
27	173	3	1.4	97	3	.79	62	3	.50
28	166	3	1.3	93	3	.75	65	3	.53
29	162	3	1.3	93	3	.75	68	3	.55
30	159	3	1.3	99	3	.80	68	3	.55
31	151	3	1.2	105	3	.85	--	--	--
TOTAL	7088	--	57.1	3666	--	29.62	2446	--	19.84
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									927343
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									278673.34

14307620 SIUSLAW RIVER NEAR MAPLETON, OREG.

LOCATION.—Lat 44°03'45", long 123°52'55", in SW 1/4 sec. 27, T.17 S., R.10 W., Lane County, at gaging station on right bank 250 ft (76 m) upstream from Shoemaker Creek, 2.5 mi (4.0 km) northwest of Mapleton, and at mile 23.7 (38.1 km).

DRAINAGE AREA.—588 mi² (1,523 km²).

PERIOD OF RECORD.—Water temperatures: November 1967 to September 1974.

Sediment records: November 1967 to September 1974.

EXTREMES.—1973-74:

Water temperatures: Maximum, 25.0°C July 31 to Aug. 2, Aug. 25, 26; minimum, 0.5°C Jan. 10, 11.

Sediment concentrations: Maximum daily, 1,260 mg/l Jan. 16; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 157,000 tons (142,000 tonnes) Jan. 16; minimum daily, 0.22 ton (0.20 tonnes) Sept. 24-27, 30.

Period of record:

Water temperatures: Maximum, 27.0°C July 16, 17, 1972, July 28, 1973; minimum, freezing point Dec. 8-17, 1972.

Sediment concentrations: Maximum daily, 1,260 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days each year.

Sediment discharge: Maximum daily, 157,000 tons (142,000 tonnes) Jan. 16, 1974; minimum daily, 0.21 ton (0.19 tonnes) Oct. 14, 1970.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	11.5	10.0	9.0	9.0	7.0	6.0	8.5	8.5	7.0	6.5
2	14.0	12.0	10.0	8.5	9.0	9.0	6.0	5.0	8.5	8.0	6.5	6.5
3	13.5	12.0	8.5	8.0	9.0	9.0	5.0	4.5	8.0	8.0	6.5	6.5
4	13.0	11.5	8.0	8.0	9.0	8.5	4.5	3.5	8.0	8.0	7.0	6.5
5	13.0	11.5	8.0	7.0	8.5	8.0	3.5	2.0	8.0	8.0	7.0	7.0
6	13.0	12.0	8.0	7.0	9.0	8.5	2.0	2.0	8.0	7.0	7.0	6.5
7	12.0	11.5	8.5	8.0	9.0	9.0	2.0	1.5	7.0	6.0	6.5	6.5
8	12.0	11.5	9.0	8.5	9.0	8.5	1.5	1.5	6.0	6.0	6.5	6.0
9	13.5	11.5	10.0	9.0	8.5	8.0	1.5	1.0	6.5	6.0	7.0	6.5
10	12.0	11.5	10.5	10.0	8.0	7.0	1.0	0.5	6.5	6.5	7.0	7.0
11	13.5	12.0	10.5	10.5	7.0	7.0	1.0	0.5	7.0	6.5	8.0	7.0
12	13.5	13.0	10.5	10.5	8.0	7.0	3.5	1.0	7.0	6.5	8.0	6.5
13	14.0	13.5	10.5	10.0	8.0	7.0	5.5	3.5	6.5	6.5	6.5	6.0
14	15.5	14.0	10.5	10.0	8.0	8.0	6.5	5.5	6.5	6.5	7.0	6.5
15	14.5	13.5	10.5	10.0	8.5	8.0	7.0	6.5	7.0	6.5	8.5	7.0
16	15.0	13.5	10.0	10.0	8.5	8.5	7.0	7.0	7.0	6.5	8.5	8.5
17	15.0	13.5	10.0	9.5	9.0	8.5	7.0	7.0	6.5	6.5	9.0	8.5
18	15.0	13.5	9.5	9.0	9.0	8.5	7.0	7.0	7.0	6.5	8.5	8.0
19	14.5	14.0	9.0	8.5	8.5	8.0	7.0	7.0	7.0	7.0	9.0	8.0
20	14.5	14.0	8.5	8.5	8.5	8.0	7.0	6.5	7.0	7.0	8.5	8.0
21	14.0	13.5	9.0	8.5	9.0	8.5	6.5	6.5	7.0	6.5	8.5	7.0
22	13.5	12.0	9.0	8.5	8.5	8.5	6.5	6.5	6.5	6.0	8.5	7.0
23	13.0	12.0	9.0	8.5	8.5	8.5	6.0	6.5	6.5	6.0	9.0	7.0
24	13.0	11.5	9.0	8.5	8.5	8.5	8.0	8.0	6.5	6.0	9.0	8.0
25	12.0	11.0	9.0	8.5	8.5	8.0	8.0	8.0	7.0	6.5	9.0	8.5
26	11.0	10.5	9.0	8.5	8.5	8.0	8.0	8.0	7.0	6.5	9.5	9.0
27	11.5	10.5	9.0	9.0	8.5	8.0	8.0	8.0	6.5	6.5	9.5	9.0
28	12.0	11.5	9.5	9.0	8.5	8.5	8.5	8.0	7.0	6.5	9.0	8.5
29	12.0	11.0	9.0	9.0	8.5	8.5	8.5	8.5	---	---	9.0	8.5
30	11.5	11.0	9.0	9.0	8.5	8.0	8.5	8.5	---	---	9.0	8.5
31	12.0	11.5	---	---	8.0	7.0	8.5	8.5	---	---	8.5	8.0
MONTH	15.5	10.5	11.5	7.0	9.0	7.0	8.5	0.5	8.5	6.0	9.5	6.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	13.0	12.0	20.0	15.5	23.0	19.5	25.0	21.5	20.0	18.0
2	8.5	8.0	13.5	11.0	20.0	16.5	19.5	16.5	25.0	21.5	20.5	19.5
3	8.5	8.0	14.5	11.5	19.5	17.0	21.5	17.0	24.5	21.0	21.0	19.0
4	8.5	8.0	15.5	13.0	18.0	15.0	21.5	19.5	24.5	21.0	20.0	19.0
5	8.5	8.5	16.5	14.0	15.0	14.0	20.5	19.5	24.0	21.0	21.5	18.5
6	8.5	8.0	14.0	14.5	15.0	14.5	20.0	17.0	23.5	20.0	23.0	20.0
7	9.0	8.5	16.5	14.5	16.5	13.5	20.0	17.0	22.0	19.0	23.0	20.0
8	9.0	9.0	17.0	14.5	18.5	14.5	19.0	17.0	22.0	19.0	21.0	20.0
9	9.0	8.5	16.0	14.5	20.0	15.5	18.5	15.5	23.5	20.0	20.5	20.0
10	9.0	8.5	14.5	13.5	21.5	17.0	16.5	15.0	24.0	21.0	20.5	18.5
11	9.5	9.0	14.5	13.5	21.5	18.0	18.0	15.0	23.0	20.5	20.5	18.0
12	9.5	8.5	14.5	13.5	21.0	18.0	20.0	16.0	21.5	19.0	20.0	16.5
13	10.5	9.0	13.5	12.0	20.5	16.5	21.0	17.0	19.0	18.0	19.5	16.0
14	10.5	9.5	13.0	11.5	18.0	16.5	21.0	18.5	20.0	16.5	20.0	16.5
15	10.5	9.5	12.0	11.0	18.0	15.0	19.5	18.0	21.0	18.5	20.5	17.0
16	10.5	9.0	11.5	11.0	20.0	15.5	19.0	17.0	21.5	19.0	20.5	17.0
17	10.5	9.5	11.0	10.5	20.5	16.5	18.0	17.0	21.0	20.0	20.5	16.5
18	10.5	10.0	11.5	11.0	21.5	18.0	17.0	16.0	20.0	19.5	20.5	16.5
19	10.5	10.0	11.5	11.0	20.5	16.5	20.0	16.0	19.5	18.0	20.5	16.5
20	11.0	10.0	13.0	11.0	20.5	15.5	22.0	18.0	20.0	16.5	20.0	16.5
21	13.0	11.0	13.5	11.5	21.0	17.0	22.0	19.0	21.0	19.0	19.5	16.0
22	12.0	11.0	13.5	12.0	21.0	18.5	22.0	19.0	22.0	20.0	19.5	16.0
23	11.0	10.0	13.5	11.5	20.0	16.0	23.0	19.0	22.0	20.5	20.5	16.5
24	11.0	10.0	13.5	12.0	20.5	16.0	23.5	19.5	24.0	21.0	20.0	16.5
25	11.5	10.0	16.0	13.0	20.5	17.0	24.5	20.5	25.0	21.5	19.5	16.5
26	12.0	11.0	18.0	15.0	18.0	15.5	24.0	21.0	25.0	22.0	18.5	16.0
27	11.5	11.0	18.5	15.5	16.0	15.0	24.0	21.5	24.0	22.0	17.0	14.5
28	12.0	11.0	18.0	15.0	20.5	15.0	24.5	20.5	22.0	20.0	17.0	14.0
29	14.0	11.0	16.5	14.5	23.0	18.0	24.0	21.0	20.0	18.5	16.5	14.0
30	13.5	13.0	16.5	13.0	23.5	20.5	24.5	20.5	18.5	18.0	17.0	14.0
31	---	---	19.0	14.0	---	---	25.0	22.0	18.0	18.0	---	---
MONTH	14.0	8.0	19.0	10.5	23.5	13.5	25.0	15.0	25.0	16.5	23.0	14.0

SIUSLAW RIVER BASIN

14307620 SIUSLAW RIVER NEAR MAPLETON, OREG.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	200	7	3.8	1370	22	81	7830	9	190
2	187	4	2.0	942	6	15	6070	36	590
3	173	3	1.4	728	3	5.9	5230	14	198
4	165	4	1.8	1290	14	49	4610	28	349
5	157	5	2.1	2300	13	81	4040	12	131
6	170	6	2.8	2380	18	116	3760	11	112
7	234	7	4.4	2540	19	130	10000	21	572
8	203	6	3.3	2580	30	274	8960	15	363
9	187	5	2.5	10500	168	4720	6310	20	341
10	176	4	1.9	7140	72	1390	4730	22	281
11	168	5	2.3	6710	42	761	4020	25	271
12	162	3	1.3	9240	197	4990	5080	59	1070
13	159	5	2.1	10400	120	3370	11200	120	3630
14	154	2	.83	10200	82	2260	11400	56	1720
15	149	2	.80	20200	349	23100	11400	50	1540
16	144	2	.78	23700	214	14700	12800	50	1730
17	144	2	.78	12100	88	2870	15700	110	4660
18	144	1	.39	7030	37	702	12800	102	3530
19	139	3	1.1	4550	16	197	8990	21	510
20	157	4	1.7	5480	36	533	13200	123	6670
21	269	5	3.6	9070	29	710	22700	232	15700
22	282	5	3.8	9270	55	1380	14400	50	1940
23	273	5	3.7	7570	51	1040	12100	35	1140
24	295	3	2.4	7720	26	542	9470	29	742
25	445	6	7.2	8320	48	1080	8790	40	949
26	409	4	4.4	8830	32	763	7290	43	846
27	340	2	1.8	9020	18	438	9590	57	1620
28	345	2	1.9	10000	20	540	13100	68	2480
29	374	9	9.1	12900	67	2360	12400	29	971
30	331	4	3.6	10500	19	539	10600	35	1000
31	600	26	57	--	--	--	7930	25	535
TOTAL	7335	--	136.58	234580	--	69736.9	296500	--	56381

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6130	26	430	9190	95	2360	12200	85	2800
2	4880	25	329	7890	65	1380	12100	52	1700
3	4200	13	147	6120	35	578	9540	43	1110
4	3580	23	222	5600	16	242	7470	40	807
5	3130	14	118	5070	17	233	8850	75	2040
6	2740	17	126	4540	22	270	11600	84	2630
7	2430	10	66	3880	20	210	8500	44	1010
8	2220	5	30	3390	16	146	6360	30	515
9	2040	9	50	3020	12	98	5040	36	490
10	1890	8	41	2740	6	44	4270	18	208
11	1780	7	34	2500	6	41	3950	17	181
12	2100	19	108	2340	8	51	5350	18	260
13	6830	121	2440	2210	16	95	6360	21	361
14	13500	230	9510	2330	18	113	11800	112	4000
15	36400	869	87300	2610	13	92	14400	70	2790
16	45900	1260	157000	7210	53	1130	9570	37	956
17	34000	596	58800	9190	73	1810	6900	19	354
18	19500	210	11100	10500	127	4780	5400	14	204
19	14600	140	5520	17900	335	17000	4480	10	121
20	10500	120	3400	11000	144	4460	3810	8	82
21	7510	63	1280	8220	55	1220	3300	10	89
22	5920	56	895	6860	70	1300	2910	8	63
23	4900	51	675	6180	30	501	2580	4	28
24	4190	38	430	5380	17	247	2350	5	32
25	3950	32	341	4830	18	235	2240	5	30
26	4070	29	319	6030	38	619	2070	5	28
27	4070	36	396	8370	20	452	2140	6	35
28	4140	34	380	12800	169	5990	5680	44	711
29	4110	18	200	--	--	--	7860	42	891
30	4270	13	150	--	--	--	11700	61	2060
31	6640	66	1320	--	--	--	10600	51	1460
TOTAL	272120	--	343157	177900	--	45697	211380	--	28046

14307620 SIUSLAW RIVER NEAR MAPLETON, OREG.—Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8490	24	550	1100	3	8.9	580	8	13
2	7900	18	384	1070	3	8.7	554	8	12
3	8020	13	282	1030	3	8.3	538	7	10
4	6870	15	278	995	4	11	717	10	19
5	5640	21	320	957	6	16	1020	12	33
6	4830	16	209	920	4	9.9	844	8	18
7	4170	18	203	891	5	12	752	5	10
8	3680	20	199	857	6	14	679	4	7.3
9	3620	30	293	828	9	20	623	7	12
10	3300	13	116	828	5	11	582	5	7.9
11	3330	14	126	918	6	15	545	4	5.9
12	3250	11	97	925	12	30	514	3	4.2
13	2930	9	71	835	9	20	492	5	6.6
14	2630	11	78	899	14	34	477	6	7.7
15	2380	10	64	1020	8	22	470	9	11
16	2180	9	53	1270	10	34	460	4	5.0
17	2030	13	71	1340	9	33	444	5	6.0
18	1900	7	36	1230	10	33	425	4	4.6
19	1780	11	53	1130	6	18	400	4	4.3
20	1720	7	33	1030	6	17	399	4	4.3
21	1610	16	70	942	7	18	386	3	3.1
22	1530	5	21	874	7	17	370	2	2.0
23	1510	13	53	836	7	16	367	1	.99
24	1510	6	24	807	7	15	349	1	.94
25	1430	8	31	782	7	15	355	2	1.9
26	1370	7	26	737	6	12	376	1	1.0
27	1300	10	35	700	6	11	395	1	1.1
28	1240	6	20	668	6	11	385	3	3.1
29	1190	6	19	644	6	10	349	2	1.9
30	1140	8	25	625	6	10	323	1	.87
31	--	--	--	602	6	9.8	--	--	--
TOTAL	94480	--	3840	28290	--	520.6	15170	--	218.70

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	303	5	4.1	182	6	2.9	131	1	.35
2	297	5	4.0	176	6	2.9	136	1	.37
3	287	5	3.9	173	6	2.8	131	1	.35
4	278	5	3.8	168	6	2.7	126	1	.34
5	273	5	3.7	165	6	2.7	124	1	.33
6	277	5	3.7	159	6	2.6	121	1	.33
7	270	5	3.6	154	6	2.5	116	1	.31
8	313	5	4.2	151	6	2.4	114	1	.31
9	390	5	5.3	149	6	2.4	116	1	.31
10	460	5	6.2	146	6	2.4	121	1	.33
11	395	5	5.3	141	6	2.3	119	1	.32
12	332	5	4.5	139	6	2.3	111	1	.30
13	301	5	4.1	139	6	2.3	107	1	.29
14	276	5	3.7	144	6	2.3	100	1	.27
15	262	5	3.5	146	6	2.4	100	1	.27
16	258	5	3.5	141	6	2.3	96	1	.26
17	390	8	8.4	136	6	2.2	98	1	.26
18	554	3	4.5	134	6	2.2	96	1	.26
19	435	2	2.3	139	6	2.3	93	1	.25
20	370	2	2.0	141	6	2.3	89	1	.24
21	322	2	1.7	144	6	2.3	87	1	.23
22	286	2	1.5	144	6	2.3	87	1	.23
23	265	2	1.4	136	6	2.2	85	1	.23
24	248	2	1.3	134	6	2.2	83	1	.22
25	234	2	1.3	131	6	2.1	83	1	.22
26	223	2	1.2	126	6	2.0	83	1	.22
27	213	2	1.2	121	6	2.0	83	1	.22
28	206	2	1.1	116	6	1.9	96	1	.26
29	200	2	1.1	116	6	1.9	91	1	.25
30	190	2	1.0	119	6	1.9	81	1	.22
31	190	2	1.0	128	6	2.1	--	--	--
TOTAL	9298	--	98.1	4438	--	72.1	3104	--	8.35

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

1354595

547912.33

UMPOUA RIVER BASIN

14308600 SOUTH UMPOUA RIVER AT DAYS CREEK, OREG.

LOCATION.--Lat 42°58'03", long 123°09'59", in NW¼ sec.15, T.30 S., R.4 W., Douglas County, temperature recorder on left bank, 0.3 mi (0.5 km) above Days Creek, at town of Days Creek.

DRAINAGE AREA.--641 mi² (1,660 km²).

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1974.
Turbidity: November 1972 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 19.5°C June 18; minimum, 0.5°C Jan. 6-11.
Turbidity: Maximum, 900 JTU Jan. 16; minimum, 0 JTU on many days.

Period of record:

Water temperatures: Maximum, 28.5°C Aug. 6-9, 1972; minimum, freezing point Dec. 8, 10-14, 17, 18, 1972.
Turbidity: Maximum, 900 JTU Jan. 16, 1974; minimum, 0 JTU on many days each year.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.0	9.5	8.5	6.5	6.5	4.5	3.0	---	---	5.5	---
2	15.5	12.5	9.5	8.5	6.5	6.5	3.0	2.0	---	---	5.5	4.5
3	14.5	12.0	8.5	7.5	6.5	6.0	2.0	2.0	---	---	5.0	4.0
4	13.5	11.5	7.5	7.0	6.5	6.0	2.0	1.0	---	---	5.0	4.5
5	13.5	12.0	7.5	7.0	6.5	6.0	1.0	1.0	---	---	5.5	5.0
6	13.0	12.5	12.0	6.0	6.5	6.5	1.0	0.5	---	---	5.5	4.5
7	13.5	12.0	6.0	5.5	7.0	6.5	0.5	0.5	---	---	5.0	4.0
8	13.0	11.5	9.0	6.0	7.0	6.5	0.5	0.5	4.0	3.0	4.5	3.5
9	13.0	11.5	8.0	7.0	7.0	6.0	0.5	0.5	4.0	3.0	5.0	3.5
10	13.0	11.0	8.0	7.5	6.0	6.0	0.5	0.5	4.5	3.5	5.5	4.5
11	13.0	11.0	8.0	8.0	6.5	6.0	1.0	0.5	4.5	3.5	6.5	5.5
12	14.0	12.5	8.0	7.5	6.5	6.0	1.5	1.0	4.5	4.0	6.0	5.5
13	14.0	12.5	7.5	7.0	6.0	5.5	4.0	1.5	4.5	3.5	5.5	4.5
14	13.5	12.0	6.5	6.5	6.0	5.5	6.0	4.0	5.5	4.5	6.0	5.0
15	13.5	12.0	7.0	6.5	6.0	6.0	6.5	6.0	5.0	4.5	7.5	5.5
16	13.5	11.5	7.5	7.0	6.5	6.0	7.0	6.5	5.0	5.0	7.0	6.0
17	13.0	11.5	7.0	6.5	6.5	6.5	---	---	5.0	4.5	7.0	6.0
18	13.0	11.5	6.5	6.0	6.5	6.0	---	---	5.0	4.5	7.0	6.0
19	13.0	11.5	6.0	5.5	6.0	5.5	---	---	5.5	5.0	7.0	6.0
20	12.5	11.5	5.5	5.5	6.5	6.0	---	---	5.5	5.0	7.0	6.0
21	12.5	11.0	5.5	5.5	6.5	6.5	---	---	5.5	5.0	7.0	5.5
22	11.5	11.0	5.5	5.5	6.0	6.0	---	---	---	---	7.0	6.0
23	10.5	10.0	5.5	5.5	6.0	5.5	---	---	---	---	7.0	6.0
24	10.5	9.5	6.0	5.5	6.0	6.0	---	---	---	---	7.5	6.0
25	10.5	9.5	6.0	6.0	6.0	5.5	---	---	---	---	8.5	7.0
26	10.0	8.5	6.0	5.5	5.5	5.0	---	---	---	---	8.0	7.0
27	10.0	9.0	6.0	6.0	5.5	5.0	---	---	---	---	8.0	7.0
28	9.5	8.5	6.5	6.0	6.0	5.5	---	---	---	---	7.0	6.0
29	10.0	8.5	6.5	6.5	6.0	5.5	---	---	---	---	7.0	6.5
30	10.0	8.5	7.0	6.5	5.5	5.0	---	---	---	---	7.0	6.5
31	9.5	9.0	---	---	5.0	4.5	---	---	---	---	6.5	5.5
MONTH	16.0	8.5	12.0	5.5	7.0	4.5	---	---	---	---	8.5	3.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	12.0	10.5	15.5	12.0	---	---	---	---	---	---
2	6.5	5.5	11.5	9.5	16.0	13.5	---	---	---	---	---	---
3	7.0	5.5	11.5	9.5	15.5	13.5	---	---	---	---	---	---
4	7.5	6.0	12.5	9.5	14.0	12.0	---	---	---	---	---	---
5	8.0	7.0	13.5	10.5	11.5	10.0	---	---	---	---	---	---
6	7.5	7.0	13.0	11.5	12.5	9.5	---	---	---	---	---	---
7	8.0	6.5	12.5	11.0	13.0	11.0	---	---	---	---	---	---
8	8.0	7.5	12.5	11.0	14.0	11.0	---	---	---	---	---	---
9	8.0	7.0	12.0	10.5	15.5	12.0	---	---	---	---	---	---
10	7.5	6.5	12.0	9.0	17.0	13.5	---	---	---	---	---	---
11	7.5	7.0	12.5	10.5	18.0	15.0	---	---	---	---	---	---
12	8.0	6.5	12.0	11.0	17.5	15.5	---	---	---	---	---	---
13	8.0	6.5	11.0	9.5	18.5	15.0	---	---	---	---	---	---
14	8.5	7.0	10.0	9.0	16.5	15.5	---	---	---	---	---	---
15	9.0	8.0	9.5	8.0	16.0	15.0	---	---	---	---	---	---
16	9.5	7.5	9.0	8.0	16.0	14.5	---	---	---	---	---	---
17	9.5	8.5	8.5	7.0	18.0	14.0	---	---	---	---	---	---
18	9.5	8.0	9.5	7.0	19.5	16.5	---	---	---	---	---	---
19	8.5	7.5	9.5	8.0	19.0	17.0	---	---	---	---	---	---
20	9.5	7.5	12.0	8.5	19.0	16.0	---	---	---	---	---	---
21	11.0	8.0	11.0	10.0	---	---	---	---	---	---	---	---
22	11.0	9.5	11.0	9.0	---	---	---	---	---	---	---	---
23	10.0	8.5	13.0	10.5	---	---	---	---	---	---	---	---
24	9.5	8.0	13.5	11.0	---	---	---	---	---	---	---	---
25	9.5	8.0	16.5	13.0	---	---	---	---	---	---	---	---
26	10.0	8.0	15.0	13.5	---	---	---	---	---	---	---	---
27	9.0	7.5	14.0	13.0	---	---	---	---	---	---	---	---
28	11.0	8.5	13.0	11.5	---	---	---	---	---	---	---	---
29	12.5	10.0	12.5	10.5	---	---	---	---	---	---	---	---
30	13.0	11.0	13.5	10.5	---	---	---	---	---	---	---	---
31	---	---	14.5	11.0	---	---	---	---	---	---	---	---
MONTH	13.0	5.5	16.5	7.0	---	---	---	---	---	---	---	---

UMPQUA RIVER BASIN

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14308600 SOUTH UMPQUA RIVER AT DAYS CREEK, OREG.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1	0	0	35	2	15	30	15	20	5	4	4
2	1	0	0	15	7	9	15	8	10	4	3	4
3	1	0	0	7	5	6	8	6	7	6	4	4
4	0	0	0	5	4	4	6	5	6	65	3	10
5	0	0	0	85	5	40	5	5	6	180	25	100
6	1	0	0	80	40	60	5	4	5	130	7	60
7	1	0	0	---	---	---	20	4	10	60	3	15
8	50	0	6	---	---	---	15	8	10	25	1	6
9	100	15	---	---	---	---	8	6	7	40	1	6
10	75	3	40	45	30	35	6	4	5	15	1	7
11	55	3	25	35	25	30	4	3	4	25	1	3
12	45	2	20	120	25	45	5	3	3	5	1	2
13	40	1	25	20	15	20	7	6	6	85	6	45
14	50	9	30	20	15	15	7	7	7	320	35	120
15	45	7	25	20	15	15	7	6	6	650	80	230
16	85	20	55	15	15	15	6	5	6	900	210	550
17	80	10	40	15	10	10	10	5	7	310	120	190
18	55	15	35	10	9	9	10	6	7	190	55	75
19	55	5	25	9	8	8	6	4	5	110	50	65
20	55	1	15	9	7	8	5	4	4	100	60	80
21	65	20	45	10	9	10	5	4	4	60	35	45
22	50	9	20	10	10	10	5	3	4	35	25	30
23	10	7	9	10	10	10	3	3	3	30	20	25
24	9	7	9	15	10	15	3	3	3	25	15	20
25	9	6	8	15	15	15	4	3	4	25	15	20
26	15	4	5	20	15	15	4	3	4	25	20	20
27	4	3	3	15	10	15	4	3	3	20	15	20
28	20	2	5	95	10	20	9	4	8	20	15	15
29	35	2	8	35	10	25	20	8	15	15	10	15
30	5	3	3	30	20	25	10	7	9	15	10	10
31	10	3	3	---	---	---	7	5	6	45	10	15
MONTH	100	0	15	120	2	20	30	3	6	900	1	60

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	65	30	45	100	45	55	100	15	40	4	3	3
2	30	15	20	50	25	35	45	15	25	3	2	3
3	20	10	15	25	15	20	15	10	15	2	2	2
4	25	10	20	15	15	15	15	9	10	2	2	2
5	25	15	15	15	15	15	10	7	8	3	2	2
6	20	10	10	60	20	40	9	6	7	4	2	4
7	25	10	15	30	15	20	6	5	6	6	1	5
8	15	10	10	20	10	15	6	4	5	10	4	5
9	15	9	10	15	10	10	5	4	4	5	3	4
10	15	9	10	10	10	10	75	4	7	4	2	3
11	15	8	10	10	10	10	4	3	4	2	2	2
12	10	8	9	55	10	35	4	3	4	2	1	2
13	15	8	10	35	20	25	4	3	4	2	1	1
14	10	9	10	140	20	55	4	3	3	2	1	1
15	15	10	10	190	35	85	65	3	6	3	1	2
16	20	10	15	50	25	30	180	3	15	6	2	3
17	20	15	15	35	15	25	4	3	3	7	4	4
18	90	15	45	15	9	15	20	2	5	8	4	5
19	120	50	85	10	7	8	5	4	5	5	4	4
20	50	25	35	7	5	6	9	4	5	4	3	4
21	30	25	25	5	5	5	8	4	4	3	3	3
22	25	20	20	5	4	5	5	4	4	3	2	2
23	20	15	15	5	4	4	6	3	4	2	2	2
24	15	10	10	5	4	4	10	5	6	2	1	2
25	15	10	10	8	3	5	5	4	4	2	1	1
26	35	10	20	4	3	3	4	3	4	3	2	2
27	20	10	15	4	3	3	4	3	4	3	2	3
28	100	1	65	15	4	9	4	3	3	3	2	3
29	---	---	---	25	15	15	3	3	3	2	1	2
30	---	---	---	70	25	45	3	3	3	1	1	1
31	---	---	---	50	15	20	---	---	---	1	1	1
MONTH	120	1	20	190	3	20	180	2	7	10	1	2

UMPQUA RIVER BASIN

14308600 SOUTH UMPQUA RIVER AT DAYS CREEK, OREG.—Continued

TURBIDITY (JTU) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1	1	1	4	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1
5	9	1	5	1	1	1	1	1	1	1	1	1
6	8	1	5	1	1	1	1	1	1	1	1	1
7	4	2	3	1	1	1	1	1	1	1	1	1
8	2	1	2	1	1	1	1	1	1	1	1	1
9	1	1	1	6	1	2	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	7	1	1
11	2	1	1	1	1	1	1	1	1	1	1	1
12	2	1	1	1	1	1	1	1	1	1	1	1
13	4	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1
15	2	1	1	1	1	1	1	1	1	1	1	1
16	2	1	1	1	1	1	1	1	1	1	1	1
17	2	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1
19	2	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1
22	3	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1
24	4	1	1	1	1	1	1	1	1	1	1	1
25	3	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1
27	3	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1
29	2	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1
31	---	---	---	1	1	1	1	1	1	---	---	---
MONTH	9	1	1	6	1	1	1	1	1	7	1	1

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
JULY 15...	15	50	11	2.9	2.1	1.9	44	0	8.0	4.8	.1
AUG. 29...	9.2	40	14	3.3	7.7	1.3	56	--	9.2	11	.1

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PH (UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JULY 15...	.00	.01	68	.09	39	3	.1	7.6	158	22.0
AUG. 29...	.05	.09	84	.11	49	3	.5	--	142	--

UMPQUA RIVER BASIN

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14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.

LOCATION.--Lat 43°13'20", long 123°24'45", in NW¼ sec.16, T.27 S., R.6 W., Douglas County, on left bank, 3.7 mi (6.0 km) west of Roseburg, and at mile 117.7 (189.4 km).

DRAINAGE AREA.--1,798 mi² (4,657 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1974.

Specific conductance: October 1970 to September 1974.

PH: August 1971 to September 1974.

Dissolved oxygen: October 1970 to September 1974.

Water temperatures: October 1970 to September 1974.

Turbidity: March to September 1974.

EXTREMES.--1973-74:

Specific conductance: Maximum recorded, 225 micromhos/cm Sept. 30; minimum recorded, 49 micromhos/cm Mar. 15.

PH: Maximum recorded, 9.0 units Aug. 13-16; minimum recorded, 5.6 units Oct. 23.

Dissolved oxygen: Maximum recorded, 14.8 mg/l Dec. 27, Feb. 6-8; minimum recorded, 2.2 mg/l Aug. 31.

Water temperatures: Maximum recorded, 29.5°C July 30, 31; minimum, freezing point Jan. 9.

Turbidity: Maximum recorded, 130 JTU April 25; minimum recorded, 0 JTU June 30, July 3, 4, 24, 27, 29, 30.

Period of record:

Specific conductance: Maximum, 423 micromhos/cm Sept. 18, 1971; minimum, 41 micromhos/cm Mar. 2, 3, 1972.

PH: Maximum, 10.0 units Sept. 8, 9, 1971; minimum, 5.0 units Sept. 29, 1971.

Dissolved oxygen: Maximum, 15.7 mg/l Oct. 26, 1971; minimum, 2.2 mg/l Aug. 31, 1974.

Water temperature: Maximum, 30.5°C July 20-22, 1971; minimum, freezing point Dec. 14, 16, 1972, Jan. 9, 1974.

Turbidity: Maximum recorded, 130 JTU Apr. 25, 1974; minimum recorded, 0 JTU June 30, July 3, 4, 24, 27, 29, 30, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAP- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED NITR- ATE (N) (MG/L)	TOTAL NITR- ATE (N) (MG/L)	DIS- SOLVED NITR- ATE (N) (MG/L)	DIS- SOLVED NITR- ATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
OCT. 30...	--	13	4.7	57	0	1.2	1.2	.01	1.2	.39	.03
NOV. 26...F16000		6.3	3.0	36	0	.15	.18	.00	.15	.69	.17
DEC. 27...E7000		7.9	3.5	41	0	.09	.10	.01	.08	.45	.10
FEB. 04...F5930		7.6	3.3	41	0	.12	.16	.00	.12	.27	.10
19...E17000		7.2	3.0	35	0	.07	.07	.01	.06	.45	.19
MAR. 20...E7300		6.9	3.0	37	0	.02	.07	.01	.01	.29	.17
APR. 17...E3030		8.3	3.5	42	--	.07	.07	.00	.07	.09	.05
MAY 21...E1470		10	4.3	54	--	.05	--	--	--	.26	.08
JUNE 25...F620		10	3.5	47	--	.04	.13	.00	.04	.36	.15
JULY 24...165		13	5.8	67	--	.18	.22	.01	.17	.35	.13
AUG. 22...126		19	6.7	79	--	1.2	1.2	.05	1.2	1.4	.26
SEP. 19...E76		17	7.4	84	--	.37	.93	--	--	1.1	.54
	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TEMPER- ATURE (DEG C)	PH (UNITS)	ALKA- LITY AS CAC03 (MG/L)	
OCT. 30...	.36	1.6	.19	52	5	--	.67	11.7	7.9	47	
NOV. 26...	.52	.87	.13	24	0	116	.16	7.5	7.0	30	
DEC. 27...	.35	.55	.05	34	1	40	.05	7.4	7.2	34	
FEB. 04...	.17	.43	.07	33	0	77	.10	6.7	7.0	34	
19...	.26	.52	.32	30	2	74	.10	6.5	7.3	29	
MAR. 20...	.12	.36	.06	30	0	56	.08	8.2	7.4	30	
APR. 17...	.04	.16	.03	35	1	63	.09	11.0	7.3	34	
MAY 21...	.18	.37	.09	43	0	78	.11	13.5	7.1	44	
JUNE 25...	.21	.49	.11	39	1	55	.07	20.3	7.3	39	
JULY 24...	.22	.57	.18	56	1	93	.13	23.3	7.1	55	
AUG. 22...	1.1	2.6	.04	75	10	121	.16	23.0	7.3	65	
SEP. 19...	.56	2.0	.58	73	4	111	.15	21.0	6.9	69	

UMPQUA RIVER BASIN

14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PFR 100 ML)
OCT. 30...	1330	130	--	--
NOV. 12...	1330	--	--	4600
26...	1230	71	12.7	--
28...	1130	--	11.5	2700
DEC. 27...	1330	78	--	--
JAN. 09...	1300	--	--	1400
FEB. 04...	1230	81	12.7	3800
19...	1300	70	13.2	--
MAR. 20...	1100	72	12.7	600
APR. 17...	1230	84	--	1700
MAY 21...	1400	100	--	--
29...	1300	--	--	22600
JUNE 25...	1300	103	8.7	500
JULY 24...	1200	143	--	6500
AUG. 22...	1300	193	--	9500
SEP. 19...	1100	209	7.0	15200

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	ENDRIN (UG/L)	DI- ELDRIN (UG/L)	HEPTA- CHLOR (UG/L)
NOV. 12...	.00	.00	.00	.00	.00	.00	.00
JAN. 09...	.00	.00	.00	.00	.00	.01	.00
FEB. 19...	.00	.00	.00	.00	.00	.00	.00
APR. 17...	.00	.00	.00	.00	.00	.00	.00
JUNE 25...	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCR (UG/L)
NOV. 12...	.00	.00	.0	.00	.00	.00	.0
JAN. 09...	.00	.00	.0	.00	.00	.00	.0
FEB. 19...	.00	.00	.0	.00	.00	.00	.0
APR. 17...	.00	.00	.0	.00	.00	.00	.0
JUNE 25...	.00	.00	.0	.00	.00	.00	.0

UMPQUA RIVER BASIN

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14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) + WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	138	132	61	50	---	---	---	---	64	59
2	183	174	138	132	67	53	---	---	---	---	65	62
3	179	169	134	120	72	54	---	---	---	---	70	65
4	175	168	120	113	74	55	---	---	---	---	75	70
5	176	170	---	---	74	56	---	---	73	69	---	---
6	177	171	117	62	73	56	---	---	75	64	---	---
7	178	170	71	58	79	57	---	---	76	68	69	63
8	178	172	86	56	60	56	---	---	80	76	71	66
9	178	162	---	---	64	53	---	---	83	78	75	67
10	178	170	---	---	58	55	80	71	84	81	80	57
11	182	174	---	---	---	---	78	61	85	84	83	80
12	186	174	67	57	---	---	62	61	87	84	84	72
13	188	179	67	57	70	63	63	---	87	84	72	63
14	190	181	70	59	69	64	---	---	90	71	70	60
15	193	183	68	58	71	69	---	---	92	90	61	49
16	196	185	61	52	73	72	---	---	93	91	61	55
17	198	182	---	---	74	64	---	---	88	75	63	55
18	198	188	---	---	68	63	---	---	79	73	64	57
19	201	194	---	---	73	68	---	---	75	54	67	60
20	204	191	---	---	78	74	---	---	63	56	75	68
21	198	192	81	58	75	62	---	---	70	61	78	71
22	196	169	76	58	67	60	---	---	70	68	78	60
23	194	171	80	60	73	68	---	---	74	71	81	75
24	186	161	80	61	80	73	---	---	77	73	83	77
25	159	132	82	64	80	74	---	---	79	60	85	80
26	134	123	81	64	77	74	---	---	81	72	86	79
27	126	116	---	---	82	75	---	---	74	69	86	80
28	127	121	---	---	---	---	---	---	74	58	90	72
29	136	124	71	57	---	---	---	---	---	---	70	58
30	134	115	62	53	---	---	---	---	---	---	67	55
31	139	129	---	---	---	---	---	---	---	---	65	55
MONTH	204	115	---	---	82	50	---	---	93	54	90	49
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	72	62	104	97	88	81	119	115	164	159	202	190
2	66	62	97	89	90	83	121	115	170	144	200	186
3	77	65	93	90	91	85	123	115	171	151	199	189
4	---	---	95	91	88	86	124	117	172	110	203	193
5	---	---	96	92	88	85	125	118	173	118	205	191
6	71	60	96	91	87	79	127	121	177	158	205	191
7	71	63	93	86	84	76	130	125	180	168	205	191
8	79	67	88	82	84	77	132	127	182	169	204	191
9	79	76	86	84	87	80	136	130	184	170	203	198
10	79	76	86	83	90	82	138	132	184	170	207	193
11	82	70	90	86	92	88	139	133	185	171	206	193
12	82	76	94	86	92	84	141	134	188	177	205	191
13	76	72	96	76	90	82	144	135	192	177	207	192
14	78	74	100	97	88	86	145	135	192	177	210	195
15	82	77	102	100	88	83	144	139	192	178	211	195
16	82	74	103	100	85	81	148	142	192	178	209	195
17	85	74	106	102	87	80	150	142	194	180	210	195
18	87	83	107	103	88	82	150	144	193	185	210	194
19	86	70	107	102	92	88	151	144	194	185	210	194
20	85	83	106	103	93	86	152	143	197	184	212	196
21	87	84	108	105	92	85	154	144	197	184	213	197
22	89	86	108	104	95	91	157	147	196	192	213	197
23	92	88	107	102	97	92	157	150	199	189	213	198
24	92	84	106	101	100	94	159	151	200	186	215	199
25	96	92	103	96	106	99	159	152	200	185	215	200
26	97	77	99	93	108	105	161	152	198	184	217	205
27	78	75	95	87	109	106	161	152	197	184	219	207
28	78	74	88	79	111	105	161	152	198	184	220	208
29	102	77	80	76	112	105	161	154	198	187	222	210
30	103	101	84	77	114	108	164	155	199	191	225	213
31	---	---	85	79	---	---	165	155	202	191	---	---
MONTH	103	60	108	76	114	76	165	115	202	110	225	186

UMPUA RIVER BASIN

14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.—Continued

PM (UNITS) - WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.8	---	7.2	6.7	6.8	6.4	---	---	---	---	6.8	6.7
2	7.9	6.8	7.0	6.7	6.7	6.5	---	---	---	---	6.8	6.7
3	7.9	6.8	6.9	6.7	6.8	6.5	---	---	---	---	6.8	6.7
4	7.9	6.9	6.4	6.5	6.8	6.5	---	---	7.4	---	6.8	6.7
5	7.9	6.4	7.3	6.2	6.7	6.5	---	---	7.5	7.3	---	---
6	7.7	6.4	6.4	6.2	6.9	6.3	---	---	7.4	7.3	7.2	7.0
7	8.0	6.4	6.5	6.1	6.7	6.4	---	---	7.5	7.3	7.2	7.0
8	7.9	6.4	6.5	6.4	6.7	6.5	---	---	7.5	7.4	7.1	6.9
9	8.0	6.6	6.4	6.3	6.4	6.7	---	---	7.5	7.4	7.2	7.0
10	8.0	7.0	6.4	6.3	6.4	6.7	7.3	6.7	7.5	7.4	7.1	6.7
11	8.2	7.0	6.4	6.4	---	---	---	---	7.5	7.4	7.2	7.1
12	8.0	6.4	6.5	6.3	---	---	---	---	7.5	7.4	7.2	7.1
13	8.1	6.4	6.5	6.4	7.3	7.2	---	---	7.5	7.4	7.2	7.1
14	7.9	6.4	6.5	6.4	7.4	7.2	---	---	7.6	6.7	7.3	7.0
15	7.9	6.4	6.5	6.3	7.4	7.2	---	---	7.6	7.4	7.2	6.9
16	8.3	6.4	6.9	6.4	7.4	7.3	---	---	7.5	7.4	7.1	7.0
17	8.2	7.0	6.7	6.3	7.4	7.3	---	---	7.5	7.4	7.3	7.1
18	8.1	7.0	6.5	6.3	7.4	7.3	---	---	7.6	7.3	7.3	7.1
19	7.9	6.4	6.4	6.4	7.4	7.2	---	---	7.3	6.4	7.4	7.1
20	8.0	6.8	6.4	6.5	7.4	7.4	---	---	7.0	6.9	7.4	7.1
21	7.2	6.8	6.4	6.5	7.4	7.3	---	---	7.1	6.9	7.4	7.2
22	7.3	6.8	6.4	6.4	7.4	7.3	---	---	7.1	6.9	7.5	6.8
23	7.1	6.6	6.4	6.4	7.4	7.3	---	---	7.0	6.9	7.4	7.2
24	7.0	6.3	6.4	6.3	7.4	7.3	---	---	7.1	6.9	7.5	7.2
25	7.6	6.4	6.7	6.4	7.4	7.4	---	---	7.0	6.4	7.5	7.3
26	7.1	6.7	7.1	6.5	7.4	7.3	---	---	7.0	6.9	7.4	7.2
27	7.0	6.3	---	---	7.4	7.3	---	---	7.1	6.8	7.5	7.4
28	7.0	6.2	---	---	---	---	---	---	6.9	6.7	7.5	7.3
29	7.1	6.0	6.7	6.4	---	---	---	---	---	---	7.5	7.1
30	7.2	6.5	6.4	6.5	---	---	---	---	---	---	7.3	7.1
31	7.1	6.6	---	---	---	---	---	---	---	---	7.4	7.1
MONTH	8.3	5.6	7.4	6.4	7.4	6.3	---	---	7.6	6.4	7.5	6.7

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.3	7.2	7.4	7.0	6.3	7.4	7.9	7.0	8.2	6.6	8.2	7.0
2	7.4	7.2	7.4	7.1	6.3	7.3	8.0	6.9	8.2	6.6	8.8	7.1
3	7.4	7.1	7.4	7.1	6.3	7.3	8.1	7.0	8.3	6.6	8.5	7.1
4	---	---	7.5	7.1	7.3	7.3	8.2	6.9	8.3	6.7	8.4	7.2
5	---	---	7.4	7.1	7.4	7.3	8.2	6.9	8.3	6.6	8.9	7.3
6	7.5	6.9	7.4	7.1	7.4	7.3	8.1	6.8	8.0	6.7	8.8	7.1
7	7.3	6.8	7.4	7.1	7.4	7.3	8.1	6.8	8.0	6.3	8.7	7.1
8	7.3	7.0	7.5	7.2	8.0	7.3	8.0	6.9	8.0	6.3	8.7	7.0
9	7.3	7.2	7.4	7.2	8.1	7.3	8.0	6.8	8.0	6.1	7.8	6.9
10	7.3	7.2	7.4	7.2	8.1	7.3	8.0	6.8	7.9	---	8.5	6.8
11	7.3	6.8	7.7	7.3	7.6	7.3	8.1	6.4	---	---	8.5	6.8
12	7.4	7.1	7.4	7.3	7.6	6.6	8.1	6.9	---	---	8.5	6.8
13	7.2	7.1	7.7	6.4	7.6	6.6	8.2	6.9	9.0	---	8.3	6.6
14	7.2	7.0	7.4	7.4	7.0	6.6	8.2	6.8	9.0	7.2	8.1	6.5
15	7.2	7.0	7.4	7.3	7.3	6.7	8.1	6.8	9.0	7.2	8.2	6.5
16	7.3	7.0	7.7	7.3	7.4	6.7	8.2	6.8	9.0	7.1	8.3	6.6
17	7.6	6.4	7.6	7.2	7.5	6.7	8.2	6.8	8.9	7.0	8.3	6.6
18	7.2	7.0	7.4	7.1	7.5	6.7	8.1	6.8	8.4	7.0	8.3	6.6
19	7.2	6.8	7.4	7.0	7.2	6.6	8.2	6.8	8.6	7.0	8.3	6.6
20	7.2	7.0	7.5	6.4	7.6	6.4	8.2	6.8	8.6	7.0	8.3	6.6
21	7.2	7.0	7.3	6.8	7.5	6.4	8.2	6.8	8.6	6.9	8.3	6.6
22	7.2	7.1	7.4	6.8	7.3	6.4	8.1	6.8	7.8	7.0	8.3	6.7
23	7.3	7.0	7.5	6.4	7.6	6.4	7.9	6.7	8.6	7.0	8.2	6.6
24	7.2	6.6	7.6	6.4	7.7	7.2	8.0	6.7	8.6	7.0	8.2	6.6
25	7.2	7.0	7.4	7.0	7.5	7.2	8.0	6.6	8.7	7.0	8.1	6.6
26	---	---	7.4	7.0	7.4	7.1	8.0	6.5	8.8	7.0	8.2	6.6
27	---	---	7.4	7.0	7.5	7.2	8.1	6.6	8.4	6.9	8.2	6.7
28	---	---	7.4	7.1	8.0	7.2	8.1	6.6	8.4	7.0	8.0	6.7
29	---	---	8.1	7.0	8.0	7.2	8.0	6.6	8.3	7.0	8.0	6.7
30	7.3	6.4	8.2	7.4	8.0	7.1	8.1	6.6	7.9	6.9	8.0	6.9
31	---	---	8.3	7.4	---	---	8.2	6.6	8.0	7.0	---	---
MONTH	7.6	6.6	8.3	6.4	8.3	6.6	8.2	6.5	9.0	6.1	8.9	6.5

UMPQUA RIVER BASIN

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14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.8	---	10.8	9.6	8.7	9.0	13.9	13.3	13.6	---	---	---
2	12.8	9.0	10.6	9.3	8.9	9.1	14.3	13.7	14.1	---	---	---
3	13.0	9.4	10.9	9.7	9.2	9.4	14.4	14.0	14.3	---	---	---
4	13.2	9.4	11.2	9.6	9.2	9.4	14.4	13.8	14.1	---	---	---
5	13.4	9.8	11.5	---	---	---	13.9	13.6	13.8	---	---	---
6	12.7	9.9	11.1	9.4	8.8	9.5	13.9	13.6	13.8	---	---	---
7	12.3	9.1	10.5	10.5	---	---	14.0	13.7	13.8	---	---	---
8	12.0	8.9	10.3	10.9	10.5	10.7	14.0	13.5	13.8	---	---	---
9	11.9	8.9	10.1	10.8	10.4	10.6	14.0	13.8	13.9	13.3	---	13.1
10	11.2	8.4	9.8	11.3	10.8	11.1	14.0	13.9	13.9	13.4	13.2	13.3
11	11.4	8.5	9.9	11.3	11.0	11.2	---	---	---	13.5	13.1	13.3
12	10.8	7.9	9.2	11.2	10.2	10.9	---	---	---	13.2	12.9	13.1
13	10.9	7.7	9.1	11.5	11.3	11.4	---	---	---	13.2	12.5	12.8
14	11.1	7.7	9.2	11.8	11.6	11.7	---	---	---	12.7	12.1	12.4
15	11.0	7.6	9.1	11.9	11.5	11.7	---	---	---	12.3	12.1	12.2
16	12.7	7.3	9.6	11.7	11.6	11.6	---	---	---	---	---	---
17	12.6	7.2	9.7	11.8	11.8	11.8	---	---	---	---	---	---
18	12.4	6.7	9.6	12.0	11.4	12.0	---	---	---	---	---	---
19	11.2	6.4	8.8	12.1	11.8	12.0	---	---	---	---	---	---
20	11.6	6.5	9.0	12.3	12.0	12.2	---	---	---	---	---	---
21	8.8	7.1	8.0	12.4	12.1	12.2	13.5	13.1	13.3	---	---	---
22	11.9	6.4	8.4	12.4	12.1	12.3	13.4	13.2	13.3	---	---	---
23	14.1	10.1	12.3	12.5	12.1	12.3	13.7	13.2	13.6	---	---	---
24	13.9	12.1	12.5	12.5	12.1	12.3	13.7	12.9	13.4	---	---	---
25	13.0	9.8	11.4	12.8	12.3	12.6	13.5	13.0	13.3	---	---	---
26	11.8	9.7	10.7	12.8	12.1	12.5	13.4	13.0	13.2	---	---	---
27	---	---	---	---	---	---	14.8	12.7	13.1	---	---	---
28	---	---	---	12.8	---	---	---	---	---	---	---	---
29	---	---	---	12.8	11.6	11.9	---	---	---	---	---	---
30	11.8	---	10.4	13.3	12.4	13.0	---	---	---	---	---	---
31	9.6	8.6	9.3	---	---	---	---	---	---	---	---	---
MONTH	14.1	6.4	10.1	13.3	8.7	11.3	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.0	12.8	12.9	12.6	12.1	12.3	11.6	10.6	11.1
2	---	---	---	13.0	12.8	12.9	12.5	12.2	12.4	11.5	10.7	11.1
3	---	---	---	13.2	12.9	13.0	12.9	11.8	12.4	11.8	10.9	11.3
4	14.6	---	14.2	13.1	12.8	13.0	---	---	---	11.6	10.7	11.1
5	14.6	14.2	14.4	---	12.8	12.9	11.6	---	---	11.4	10.5	10.9
6	14.8	14.3	14.6	13.4	---	13.2	10.1	9.5	9.8	11.1	9.8	10.4
7	14.8	14.5	14.7	13.5	13.3	13.4	10.4	9.4	9.9	11.0	9.7	10.3
8	14.8	14.6	14.7	13.5	13.2	13.3	10.3	9.2	9.8	10.7	9.6	10.1
9	14.7	14.3	14.6	13.3	13.2	13.3	10.2	9.6	9.8	11.2	9.8	10.5
10	14.4	14.1	14.3	13.2	13.0	13.1	10.0	9.7	9.9	11.4	10.4	11.0
11	14.2	14.0	14.1	12.9	12.7	12.8	10.0	9.7	9.8	11.6	10.5	11.1
12	14.0	13.8	13.9	12.7	12.5	12.6	10.0	9.6	9.8	11.4	10.6	11.0
13	14.1	13.8	14.0	13.1	12.7	12.9	9.9	9.3	9.6	11.5	10.5	10.9
14	14.0	13.7	13.9	13.0	12.6	12.8	9.5	9.0	9.3	11.6	10.5	11.0
15	13.6	13.3	13.5	12.9	12.5	12.7	9.2	8.7	8.8	12.1	11.3	11.7
16	13.4	13.2	13.3	12.5	12.2	12.3	8.7	8.1	8.5	12.3	11.6	12.0
17	13.5	13.2	13.4	12.4	12.3	12.4	9.8	7.9	8.9	12.1	11.3	11.9
18	13.4	13.0	13.2	12.5	12.3	12.4	10.0	9.9	10.0	12.3	11.6	11.9
19	13.4	12.2	12.7	12.2	11.8	12.0	10.5	10.2	10.4	12.7	11.9	12.3
20	12.8	12.5	12.7	12.0	11.0	11.7	10.8	10.5	10.6	12.8	11.7	12.4
21	12.9	12.6	12.7	11.9	11.6	11.7	11.0	10.2	10.8	12.2	10.4	11.5
22	13.1	12.7	12.9	11.9	11.5	11.7	10.8	10.4	10.6	11.2	10.0	10.7
23	13.1	12.4	13.0	11.9	11.6	11.7	11.4	10.5	10.8	12.8	10.4	11.6
24	13.0	12.7	12.9	11.8	11.3	11.6	11.0	10.7	10.9	12.7	11.3	12.0
25	13.2	12.5	12.7	11.6	11.2	11.3	11.3	10.8	11.0	12.0	11.0	11.4
26	13.2	13.0	13.1	11.4	10.8	11.1	11.9	11.0	11.4	11.7	10.4	11.0
27	13.3	13.0	13.2	11.1	10.6	10.8	12.1	11.2	11.6	11.4	9.8	10.5
28	13.1	12.7	12.9	11.6	10.9	11.1	12.1	11.2	11.7	11.3	9.8	10.5
29	---	---	---	12.1	11.7	11.9	12.0	11.3	11.6	11.0	9.5	10.0
30	---	---	---	12.3	11.9	12.0	12.2	11.0	11.6	11.0	9.6	10.2
31	---	---	---	12.6	12.2	12.4	---	---	---	10.7	9.4	10.0
MONTH	14.8	12.2	13.6	13.5	10.6	12.4	12.9	7.9	10.5	12.8	9.4	11.1

UMPUA RIVER BASIN

14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.—Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	9.1	9.8	10.1	8.1	9.0	9.6	4.4	7.0	9.3	3.2	5.9
2	10.4	9.1	9.8	10.4	8.3	9.3	9.7	4.3	6.9	11.1	3.8	7.3
3	10.5	9.0	9.8	9.9	8.0	9.0	10.1	4.2	7.0	10.4	4.0	6.9
4	9.7	8.9	9.2	10.3	8.4	9.2	10.2	4.4	7.2	10.4	4.2	7.0
5	9.9	9.1	9.4	10.0	7.9	8.8	10.0	4.6	7.3	11.9	4.7	8.0
6	10.2	9.4	9.7	9.7	7.6	8.7	11.0	4.6	7.1	12.0	4.0	7.9
7	10.4	9.5	10.0	10.4	7.9	9.0	11.4	3.5	7.1	11.9	4.5	8.0
8	10.4	9.6	10.1	9.5	7.3	8.3	10.9	3.3	6.8	11.9	4.6	8.0
9	10.6	9.5	10.0	9.6	7.3	8.4	10.3	2.5	6.2	8.8	4.7	6.6
10	10.3	9.3	9.8	10.1	8.0	9.1	---	---	---	11.1	4.4	7.5
11	9.8	9.0	9.5	10.3	7.9	9.2	---	---	---	11.2	4.6	7.7
12	9.8	8.7	9.3	10.4	7.9	9.1	---	---	---	11.2	5.0	7.9
13	9.7	8.7	9.2	10.3	7.5	8.8	12.0	---	7.7	11.0	4.9	7.8
14	9.4	8.5	9.0	10.2	7.2	8.6	12.0	3.7	8.0	10.9	4.9	7.6
15	9.2	8.3	8.8	10.0	6.6	8.4	11.4	3.5	7.5	10.7	4.7	7.5
16	9.4	8.4	8.9	10.2	6.7	8.3	11.0	3.2	7.1	10.8	4.9	7.6
17	9.2	8.2	8.7	10.2	6.2	8.1	---	---	---	11.2	4.8	7.7
18	9.5	8.1	8.7	9.9	6.3	8.0	---	---	---	11.5	4.8	8.0
19	9.2	8.2	8.7	10.0	6.2	8.0	---	---	---	12.7	5.1	8.6
20	9.4	8.2	8.4	9.9	6.2	7.9	---	---	---	12.6	4.2	8.2
21	9.5	8.3	8.8	9.7	5.8	7.8	---	---	---	12.6	4.3	8.3
22	9.0	8.0	8.4	9.6	5.6	7.5	---	---	---	12.2	4.7	8.4
23	9.7	8.1	8.9	8.6	5.0	6.7	10.4	3.3	6.7	12.4	4.9	8.5
24	10.0	8.5	9.3	9.0	5.0	6.4	10.7	3.4	7.0	12.1	4.8	8.4
25	9.9	8.5	9.2	9.3	4.8	7.0	11.0	3.2	6.9	11.7	4.9	8.0
26	10.3	9.0	9.7	9.4	4.8	7.0	10.8	3.2	6.9	11.3	4.9	7.7
27	10.5	9.1	9.8	9.3	4.6	7.0	10.6	2.9	6.6	11.4	5.3	8.0
28	10.4	9.0	9.7	9.5	4.7	7.0	10.2	2.6	6.4	11.5	5.7	8.3
29	10.4	8.9	9.6	9.1	4.4	6.7	8.2	2.6	5.2	11.8	5.8	8.6
30	10.2	8.5	9.3	9.4	4.4	6.8	7.5	2.6	4.7	11.4	6.0	8.6
31	---	---	---	9.6	4.2	6.8	8.9	2.2	5.2	---	---	---
MONTH	10.6	8.0	9.3	10.4	4.2	8.1	---	---	---	12.7	3.2	7.8

TEMPERATURE (DEG. C) OF WATER. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	---	11.5	10.5	8.5	7.5	---	---	---	---	7.0	6.5
2	17.0	15.5	10.5	10.0	8.0	7.0	---	---	---	---	7.0	6.5
3	16.5	14.5	10.0	9.0	7.5	5.5	---	---	---	---	6.5	6.0
4	16.0	14.0	9.0	8.5	7.5	6.0	---	---	7.0	---	7.0	6.0
5	15.5	14.0	---	---	7.5	6.0	---	---	6.5	6.0	---	---
6	15.5	14.5	8.5	6.0	7.5	5.5	---	---	6.5	5.5	7.0	---
7	15.5	14.0	8.5	6.0	9.0	6.0	---	---	5.5	4.5	6.5	6.0
8	15.0	14.0	9.0	8.0	8.0	6.0	---	---	5.0	4.5	6.5	5.5
9	15.0	13.5	19.5	9.0	7.5	5.5	0.5	0.0	6.0	5.0	6.5	6.0
10	15.0	13.0	10.5	9.0	7.5	4.5	0.5	0.5	6.0	5.5	7.0	6.5
11	15.0	12.5	11.0	9.0	---	---	1.0	0.5	6.0	5.5	8.0	7.0
12	15.5	14.0	10.5	9.0	8.0	---	2.5	1.0	6.5	5.5	8.5	7.5
13	16.0	14.5	10.0	9.0	7.5	7.5	5.5	2.0	6.0	5.5	7.5	6.5
14	16.5	15.0	9.0	8.0	8.0	7.5	7.5	5.5	6.5	6.0	8.0	6.5
15	16.0	14.5	10.0	8.0	8.5	8.0	8.0	7.5	7.5	6.5	9.0	7.5
16	16.0	14.0	10.0	8.0	8.5	8.5	---	---	7.5	7.0	9.0	8.5
17	15.5	12.0	9.5	6.5	9.0	8.5	---	---	7.0	6.5	9.0	8.5
18	15.5	14.0	7.5	5.5	8.5	8.0	---	---	7.0	6.5	9.0	8.0
19	15.0	14.5	6.0	5.0	8.0	7.5	---	---	7.0	6.5	9.0	8.5
20	15.5	14.5	7.0	4.5	8.5	7.5	---	---	6.5	6.5	9.5	8.5
21	15.5	14.5	7.5	6.0	9.0	8.5	---	---	6.5	6.5	9.5	8.5
22	15.0	14.0	7.5	5.5	8.5	8.5	---	---	6.5	6.0	10.0	9.0
23	14.5	13.5	7.5	5.5	8.5	8.0	---	---	6.5	6.0	10.0	8.5
24	13.5	12.5	7.5	6.0	8.5	8.0	---	---	7.0	6.5	10.5	8.5
25	13.5	12.0	8.0	5.5	8.5	8.0	---	---	7.0	6.5	11.0	9.5
26	13.5	12.0	8.0	7.0	7.5	7.0	---	---	7.0	6.5	11.0	10.0
27	12.5	11.5	---	---	8.5	7.5	---	---	6.5	6.0	10.0	9.5
28	13.0	11.5	9.0	---	---	---	---	---	7.0	6.5	10.0	9.0
29	12.5	11.5	9.0	8.5	---	---	---	---	---	---	9.5	9.0
30	11.5	11.0	8.5	8.0	---	---	---	---	---	---	9.5	8.5
31	12.0	11.0	---	---	---	---	---	---	---	---	8.5	7.5
MONTH	14.5	11.0	11.5	4.5	9.0	4.5	---	---	7.5	4.5	11.0	5.5

14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.--Continued

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	15.0	14.0	19.0	16.0	23.0	21.5	29.0	26.0	24.5	22.5
2	8.5	7.5	15.0	13.5	20.0	17.0	23.0	20.5	28.5	25.5	25.0	23.0
3	8.5	8.0	15.0	13.0	20.0	17.5	24.0	20.5	29.0	25.5	24.5	22.5
4	---	---	15.5	13.5	19.5	17.5	25.0	21.5	28.5	26.0	23.5	22.0
5	10.0	---	15.5	14.5	17.5	16.0	24.0	22.0	27.5	26.0	24.5	21.5
6	10.0	9.5	17.0	15.5	16.0	15.5	24.0	21.5	27.5	25.0	24.5	22.0
7	10.5	9.5	17.0	15.5	15.5	14.5	23.0	21.0	26.5	24.0	24.0	22.0
8	10.5	10.0	16.5	15.0	17.0	14.5	22.5	20.5	26.0	23.5	24.0	22.0
9	10.0	9.5	16.0	14.5	16.5	15.5	21.0	20.0	26.5	23.5	23.0	22.0
10	10.0	9.5	15.5	14.0	20.0	16.5	21.0	19.0	26.5	24.0	23.0	21.0
11	10.0	9.5	15.5	14.0	19.5	16.0	21.5	19.0	26.0	24.0	23.0	20.5
12	10.5	9.0	15.0	14.5	22.0	19.0	23.0	19.0	25.0	23.0	22.5	20.5
13	11.0	9.0	14.5	13.5	22.5	20.5	24.5	20.0	24.5	22.0	22.5	20.0
14	11.5	9.5	14.0	13.0	22.0	19.5	25.0	20.5	25.0	22.0	22.5	20.0
15	11.5	10.0	13.5	12.5	19.0	16.0	24.5	21.5	25.0	22.5	22.0	20.0
16	12.0	10.0	13.0	12.0	19.0	17.5	24.0	21.5	25.0	22.5	22.0	20.0
17	12.5	10.5	12.5	11.5	21.0	18.0	24.0	22.0	25.0	23.0	22.0	20.0
18	12.0	11.0	12.0	11.5	22.0	19.5	24.0	22.5	24.0	22.5	22.5	20.0
19	11.0	10.5	12.0	11.5	21.5	20.0	25.0	22.0	23.0	21.5	23.0	20.5
20	11.5	10.5	13.5	11.5	21.5	19.0	26.0	22.0	24.0	21.0	23.0	20.5
21	13.0	10.5	14.5	13.0	22.5	20.5	26.5	23.0	24.0	21.5	23.0	20.5
22	12.5	12.0	15.5	13.5	22.5	20.5	26.5	23.0	23.5	22.0	23.0	21.0
23	13.0	11.5	15.5	13.5	21.5	20.0	25.0	23.0	25.0	22.5	23.0	21.0
24	13.0	11.5	16.5	14.5	21.5	20.0	25.5	22.5	25.5	23.0	23.0	21.0
25	13.0	11.0	13.0	12.5	21.0	19.0	25.0	23.0	26.0	23.5	23.0	21.0
26	13.0	11.0	19.5	17.5	20.0	16.5	26.0	23.0	26.5	24.0	22.0	20.5
27	12.5	12.0	21.0	16.0	21.0	19.0	27.5	24.0	26.5	24.0	21.0	19.0
28	13.5	12.0	18.5	17.0	22.5	20.0	26.5	25.0	26.0	24.0	20.5	18.5
29	14.0	12.0	17.0	15.5	23.5	20.5	26.5	26.0	25.5	23.5	20.5	18.5
30	15.5	13.5	16.5	14.5	25.5	22.0	27.5	26.0	24.5	23.0	20.5	18.5
31	---	---	17.5	15.0	---	---	24.5	26.5	24.5	23.0	---	---
MONTH	15.5	7.5	19.5	11.5	27.5	14.5	27.5	19.0	29.0	21.0	25.0	18.5

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

UMPUA RIVER BASIN

14312260 SOUTH UMPQUA RIVER NEAR ROSEBURG, OREG.—Continued

TURBIDITY (JTU) • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20	15	20	2	1	2	2	1	1	2	1	1
2	20	15	15	1	1	1	2	1	1	2	1	2
3	20	15	15	1	0	0	2	1	2	2	1	2
4	20	10	15	1	0	0	2	1	1	2	1	2
5	---	---	---	---	---	---	1	1	1	2	2	2
6	---	---	---	---	---	---	3	1	2	2	1	2
7	---	---	---	---	---	---	2	1	2	2	1	2
8	---	---	---	---	---	---	2	1	2	2	1	2
9	---	---	---	---	---	---	2	1	1	2	1	2
10	---	---	---	---	---	---	1	1	1	2	1	2
11	---	---	2	---	---	---	1	1	1	2	1	2
12	2	1	1	1	1	1	1	1	1	2	1	1
13	2	1	1	1	1	1	1	1	1	2	1	2
14	1	1	1	1	1	1	2	1	1	2	1	1
15	3	2	2	2	1	1	2	1	1	2	1	1
16	3	2	3	1	1	1	2	1	1	1	1	1
17	---	---	---	1	1	1	2	1	2	2	1	1
18	---	---	---	1	1	1	2	1	1	2	1	1
19	---	---	---	1	1	1	2	1	1	2	1	1
20	---	---	---	1	1	1	2	1	1	2	1	1
21	---	---	---	3	1	1	2	1	2	1	1	1
22	---	---	---	1	1	1	2	2	2	1	1	1
23	---	---	---	1	1	1	2	1	2	1	1	1
24	---	---	---	2	0	1	2	1	1	2	1	1
25	---	---	2	2	1	1	2	1	1	1	1	1
26	2	1	2	3	1	2	2	1	1	2	1	1
27	2	1	2	2	0	1	2	1	1	1	1	1
28	2	1	1	2	1	1	2	1	1	1	1	1
29	2	1	1	2	0	1	2	1	2	1	1	1
30	1	0	1	1	0	1	2	1	2	2	1	1
31	---	---	---	2	1	1	2	1	2	---	---	---
MONTH	---	---	---	---	---	---	3	1	1	2	1	1

14319500 NORTH UMPQUA RIVER AT WINCHESTER, OREG.

LOCATION.--Lat 43°16'20", long 123°24'40", in NW 1/4 sec.33, T.26 S., R.6 W., Douglas County, on left bank 400 ft (122 m) downstream from county bridge, 3.0 mi (4.8 km) west of Winchester, and at mile 1.8 (2.9 km).

DRAINAGE AREA.--1,344 mi² (3,480 km²).

PERIOD OF RECORD.--Chemical analyses: August 1967 to June 1969.

Water temperatures: January 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 19.5°C June 29, but may have been higher in July; minimum, freezing point Jan. 6, 7.

Period of record:

Water temperatures: Maximum, 26.5°C Aug. 10, 1972; minimum, freezing point Jan. 6, 1971, Dec. 8-16, 1972, Jan. 6, 7, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.0	9.5	8.5	7.5	7.5	5.5	4.0	7.0	6.5	6.0	5.5
2	14.5	13.0	9.0	8.0	7.5	7.0	4.0	2.5	6.5	6.5	6.5	6.0
3	13.5	12.0	8.0	6.5	7.0	6.5	2.5	2.0	6.5	5.5	6.0	5.5
4	13.0	11.5	6.5	6.5	6.5	6.0	2.0	1.5	6.5	6.0	6.0	5.5
5	12.5	11.5	6.0	5.5	6.5	6.0	1.5	0.5	6.5	5.5	6.5	5.5
6	12.5	11.5	7.5	6.0	7.0	6.5	1.0	0.0	5.5	5.0	6.5	6.0
7	12.5	11.0	7.5	7.0	8.0	7.0	0.5	0.0	5.0	4.5	6.0	5.5
8	12.0	11.0	8.5	7.0	7.5	7.0	0.5	0.5	5.0	4.5	6.0	5.0
9	12.5	11.0	9.0	8.5	7.0	6.0	0.5	0.5	5.5	5.0	6.0	5.0
10	12.0	11.0	9.0	9.0	6.0	6.0	0.5	0.5	5.5	5.0	6.5	6.0
11	12.0	11.0	9.5	9.0	7.0	6.0	0.5	0.5	5.5	5.0	7.5	6.0
12	12.5	11.5	9.0	8.5	7.0	6.5	---	---	5.5	5.0	7.5	6.5
13	13.5	12.0	8.5	8.0	6.5	6.0	---	---	5.5	4.5	6.5	5.5
14	13.5	12.0	8.0	7.5	6.5	6.0	---	---	6.5	5.5	7.0	6.0
15	13.5	12.0	8.5	8.0	7.0	6.5	---	---	6.5	6.0	8.0	6.5
16	13.0	11.5	8.5	7.5	7.0	7.0	---	---	6.5	6.0	8.0	7.5
17	12.5	11.0	8.0	7.5	7.5	7.0	---	---	6.0	6.0	7.5	7.0
18	12.5	11.0	7.0	6.5	7.5	6.5	---	---	6.5	6.0	7.5	7.0
19	11.5	11.5	6.5	6.0	6.5	6.0	---	---	6.5	6.5	8.0	7.0
20	12.0	11.0	6.5	6.0	7.5	6.5	---	---	6.5	6.0	8.0	7.0
21	12.0	11.5	6.5	6.0	7.5	7.0	---	---	6.5	6.0	8.0	6.5
22	11.5	11.0	6.5	6.5	7.0	7.0	---	---	6.0	5.5	8.5	7.0
23	11.0	10.5	6.5	6.5	7.0	6.5	---	---	6.0	5.0	8.0	7.0
24	10.5	10.0	6.5	5.5	7.0	6.5	---	---	6.0	5.0	8.5	7.0
25	10.0	9.0	6.5	6.5	7.0	6.0	---	---	6.5	6.0	9.0	7.5
26	9.5	9.0	6.5	6.5	6.0	6.0	---	---	6.5	6.5	9.0	8.0
27	10.0	9.0	7.0	6.5	6.0	6.0	---	---	6.5	5.5	8.5	8.0
28	10.0	9.0	7.5	7.0	6.0	6.0	---	---	6.5	5.5	8.5	7.5
29	9.5	9.0	7.5	7.0	6.0	6.0	---	---	---	---	8.0	7.5
30	9.5	9.0	7.5	7.5	---	---	---	---	---	---	8.0	7.5
31	10.0	9.5	---	---	---	---	7.5	6.5	---	---	7.5	7.0
MONTH	15.0	9.0	9.5	5.5	8.0	6.0	---	---	7.0	4.5	9.0	5.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	12.5	11.0	15.0	12.5	---	---	---	---	---	---
2	7.5	7.0	12.0	9.5	15.5	13.5	---	---	---	---	---	---
3	8.0	7.0	12.5	10.0	15.0	13.5	---	---	---	---	---	---
4	8.5	7.0	13.0	10.0	13.0	12.5	---	---	---	---	---	---
5	8.5	8.0	13.5	11.0	12.5	10.5	---	---	---	---	---	---
6	8.5	8.0	13.5	12.0	12.0	10.0	---	---	---	---	---	---
7	9.0	7.5	13.0	11.5	13.0	10.5	---	---	---	---	---	---
8	9.0	8.5	12.5	11.0	13.5	11.0	17.0	16.5	---	---	---	---
9	8.5	8.0	12.0	11.0	14.5	12.0	---	---	---	---	---	---
10	8.0	7.5	11.0	10.0	16.0	13.0	16.0	14.5	---	---	---	---
11	8.5	7.5	12.0	10.5	16.0	14.0	16.5	15.0	---	---	---	---
12	9.0	7.0	12.0	10.5	16.0	14.5	18.0	16.0	---	---	---	---
13	9.0	7.5	11.0	9.5	16.5	14.5	---	---	---	---	---	---
14	9.5	8.0	10.5	9.5	15.5	13.5	---	---	---	---	---	---
15	10.0	8.5	9.5	8.5	15.0	13.0	---	---	---	---	---	---
16	10.0	8.0	10.0	8.5	15.0	13.0	---	---	---	---	---	---
17	10.5	8.5	9.0	8.0	16.5	14.0	---	---	---	---	---	---
18	10.0	9.5	9.5	8.0	17.5	15.0	---	---	---	---	---	---
19	9.5	8.5	10.0	8.0	17.0	14.5	---	---	---	---	---	---
20	9.5	8.0	11.5	9.0	15.5	14.0	---	---	---	---	---	---
21	11.0	8.5	12.0	10.5	17.0	14.5	---	---	---	---	---	---
22	11.0	10.0	12.0	10.5	17.0	15.0	---	---	---	---	---	---
23	10.0	9.5	13.5	10.5	17.0	14.0	---	---	---	---	---	---
24	11.0	9.0	14.5	12.0	17.5	15.5	---	---	---	---	18.0	16.5
25	10.5	9.0	16.0	13.0	---	---	---	---	---	---	18.0	16.0
26	10.5	9.0	16.0	14.5	15.5	14.0	---	---	---	---	17.5	15.5
27	10.0	9.0	15.5	13.5	16.0	13.5	---	---	---	---	16.0	14.5
28	11.0	8.5	14.5	12.5	18.0	15.0	---	---	---	---	15.5	14.0
29	12.5	10.0	13.0	11.5	19.5	17.0	---	---	---	---	15.5	13.5
30	13.0	11.0	13.0	10.5	---	---	---	---	---	---	15.0	13.5
31	---	---	14.0	11.5	---	---	---	---	---	---	---	---
MONTH	13.0	7.0	16.0	8.0	19.5	10.0	---	---	---	---	---	---

14321000 UMPQUA RIVER NEAR ELKTON, OREG.

LOCATION.--Lat 43°35'10", long 123°33'30", in NW¼ sec.8, T.23 S., R.7 W., Douglas County, on right bank 3.5 mi (5.6 km) south of Elkton, 1.9 mi (3.1 km) upstream from Mehl Creek, and at mile 36.9 (91.6 km).

DRAINAGE AREA.--3,683 mi² (9,539 km²).

PERIOD OF RECORD.--Chemical analyses: December 1965 to September 1974.

Water temperatures: April 1971 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 27.0°C July 31, Aug. 1; minimum, freezing point Jan. 7, 8, 11, 12 and probably Jan. 9, 10.

Period of record:

Water temperatures: Maximum 30.0°C July 14, 1971; minimum, freezing point Jan. 7, 8, 11, 12 and probably Jan. 9, 10, 1974.

WATER QUALITY DATA. WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 04....	1010	18	9.0	2.8	6.6	1.3	46	0	5.0	8.0	.1
NOV. 08....	19900	15	6.7	2.5	4.3	.8	30	0	6.1	4.9	.1
JAN. 03....	13000	17	6.5	2.6	12	1.4	37	0	4.1	8.5	.1
FEB. 27....	24450	15	6.1	2.6	4.0	1.1	35	0	3.2	2.4	.1
APR. 15....	10200	18	6.5	2.3	4.1	.8	32	0	3.5	5.8	.1
24....	7910	--	--	--	--	--	--	--	--	--	--
MAY 24....	4850	18	7.4	2.4	4.6	.6	37	--	4.0	5.1	.3
JUNE 18....	5610	16	5.4	1.7	2.8	.7	27	--	2.4	1.8	.0
JULY 17....	1950	--	--	--	--	--	--	--	--	--	--
AUG. 20....	1230	18	6.5	2.2	5.4	1.0	38	--	2.4	3.3	.1
SEP. 19....	1080	21	6.2	2.4	4.5	1.2	38	--	3.2	2.7	.1

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-F T)
OCT. 04....	.03	.76	.44	.32	.79	.11	--	--	202	.10
NOV. 08....	.17	.90	.65	.25	1.1	.13	--	--	3120	.08
JAN. 03....	.10	--	--	.35	--	.04	--	--	2600	.10
FEB. 27....	.21	.74	.47	.27	.95	.16	--	--	3500	.07
APR. 15....	.08	.64	.37	.27	.72	.03	--	--	1570	.08
24....	--	--	--	--	--	--	2.2	--	--	--
MAY 24....	.02	.16	--	--	.18	.05	--	57	746	.08
JUNE 18....	.03	.10	--	--	.13	.07	--	52	788	.07
JULY 17....	--	--	--	--	--	--	1.5	--	--	--
AUG. 20....	.03	.25	--	--	.28	.04	--	136	452	.19
SEP. 19....	.01	.16	--	--	.17	.08	--	51	149	.07

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TUR- BID- ITY (JTU)	PH (UNITS)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	SUS- PENDEU SEDI- MENT (MG/L)	SUS- PENDEU SEDI- MENT CHARGE (T/DAY)	TEMPER- ATURE (DEG C)	ALKA- LITY AS CACO ₃ (MG/L)
OCT. 04....	34	0	--	7.6	--	--	--	--	17.0	38
NOV. 08....	27	2	--	7.3	--	--	--	--	8.0	25
JAN. 03....	27	0	--	7.6	--	--	--	--	3.5	30
FEB. 27....	26	0	--	7.1	--	--	--	--	6.5	29
APR. 15....	26	0	--	6.9	--	--	--	--	11.0	26
24....	--	--	--	--	--	--	16	342	11.0	--
MAY 24....	28	0	2	6.7	6	1	--	--	14.5	30
JUNE 18....	20	0	1	6.8	2	2	10	151	18.0	22
JULY 17....	--	--	--	7.1	3	2	10	53	20.5	--
AUG. 20....	25	0	1	6.7	2	5	10	33	19.5	31
SEP. 19....	25	0	1	6.9	2	3	6	17	21.0	31

14321000 UMPQUA RIVER NEAR ELKTON, OREG.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
APR. 24...	5	1	2	<10	0	0	1	<50	10	10	30
JULY 17...	3	3	2	<10	0	0	0	<50	3	20	20

DATE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
APR. 24...	320	3	<100	80	80	40	800	2	1	.0	.0
JULY 17...	3400	5	<100	20	40	10	160	0	0	.0	.3

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	11.0	10.5	8.5	8.5	7.0	5.5	7.0	7.0	6.5	6.5
2	17.0	16.0	10.5	9.5	8.5	8.0	5.5	4.5	7.0	6.5	6.5	6.5
3	16.5	15.5	9.5	9.0	8.0	9.0	4.0	3.0	6.5	6.5	6.5	6.0
4	16.0	15.0	9.0	8.5	8.0	7.5	3.0	2.0	6.5	6.5	6.0	6.0
5	15.5	15.0	8.5	6.5	7.5	7.5	2.0	1.5	6.5	6.0	6.5	6.0
6	15.5	15.0	7.5	6.0	7.5	7.5	1.5	0.5	6.0	5.5	7.0	6.5
7	15.0	14.0	8.0	7.5	9.0	7.5	0.5	0.0	5.5	5.0	6.5	6.0
8	14.5	14.0	8.5	8.0	9.0	8.5	---	0.0	5.0	4.5	6.0	5.5
9	14.0	13.5	10.0	8.5	8.5	8.0	---	---	5.0	4.5	6.0	5.5
10	14.0	13.5	10.5	10.0	8.0	7.5	---	---	5.5	4.5	6.5	6.0
11	14.5	13.5	10.5	10.5	7.5	7.0	0.0	0.0	5.5	5.0	7.0	6.0
12	15.0	14.5	10.5	10.5	7.5	7.5	0.5	0.0	5.5	5.5	7.5	7.0
13	15.5	14.5	10.5	9.5	7.5	7.5	3.0	0.5	5.5	5.0	7.5	6.0
14	15.5	15.0	9.5	8.5	7.5	7.5	6.5	3.5	5.5	5.5	6.5	6.0
15	15.5	14.5	9.5	9.0	8.0	7.5	8.0	6.5	6.5	5.5	7.5	6.5
16	15.0	14.5	9.5	9.5	8.5	8.0	8.0	8.0	6.5	6.0	8.5	7.5
17	15.0	14.5	9.5	9.0	8.5	8.5	8.0	7.5	6.5	6.0	8.0	8.0
18	15.0	14.5	8.5	8.0	8.5	8.5	7.5	7.5	6.5	6.0	8.0	7.5
19	15.0	15.0	8.0	7.5	8.5	7.5	8.0	7.5	6.5	6.5	8.0	7.5
20	15.0	14.5	7.5	7.5	8.0	7.5	7.5	6.5	6.5	6.0	8.5	7.5
21	15.0	14.5	7.5	7.5	8.5	8.0	6.5	5.5	6.5	6.0	9.0	7.5
22	14.5	13.5	8.0	7.5	8.5	8.5	5.5	5.5	6.0	6.0	9.0	7.5
23	13.5	12.5	8.0	7.5	8.5	8.0	6.0	5.5	6.0	5.5	9.0	8.0
24	12.5	12.0	8.0	7.5	8.0	8.0	6.5	6.0	6.5	5.5	9.0	8.0
25	12.5	12.0	8.0	7.5	8.0	7.5	6.5	6.0	6.5	6.0	10.0	8.5
26	12.0	11.5	8.0	7.5	7.5	7.5	6.5	6.0	6.5	6.5	10.0	9.0
27	12.0	11.0	8.0	7.5	7.5	7.0	6.5	6.0	6.5	6.0	10.0	9.0
28	12.0	11.5	8.5	8.0	8.0	7.5	6.5	6.0	6.0	6.0	9.0	8.5
29	11.5	11.5	8.5	8.5	8.0	8.0	6.5	6.0	---	---	9.0	8.5
30	11.5	11.0	8.5	8.5	8.0	7.5	6.5	6.0	---	---	8.5	8.0
31	11.5	11.0	---	---	7.5	7.0	7.0	6.5	---	---	8.0	7.5
MONTH	18.0	11.0	11.0	6.0	9.0	7.0	8.0	0.0	7.0	4.5	10.0	5.5

UMPQUA RIVER BASIN

14321000 UMPQUA RIVER NEAR ELKTON, OREG.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	13.5	13.0	17.0	15.0	21.5	20.0	27.0	25.0	22.5	21.5
2	8.0	7.5	13.5	12.5	18.0	16.0	21.0	19.5	26.5	24.5	22.5	21.5
3	8.0	7.5	14.0	12.5	18.0	17.0	21.5	19.5	26.5	24.5	22.5	21.5
4	8.5	7.5	14.5	13.0	17.0	16.0	22.0	20.0	26.0	24.5	22.5	21.0
5	9.0	8.5	15.0	14.0	16.0	15.0	21.0	20.0	25.5	24.0	22.0	20.5
6	9.0	8.5	15.5	14.5	15.0	13.0	20.5	19.5	25.0	23.5	22.5	21.0
7	9.5	8.5	15.5	15.0	14.0	12.5	20.0	19.0	24.5	22.5	22.5	21.0
8	9.5	9.0	15.5	14.5	15.0	13.5	19.5	18.5	24.0	22.0	22.0	21.5
9	9.5	9.0	14.5	13.5	16.0	14.5	18.5	17.5	24.0	22.5	22.0	21.0
10	9.0	8.5	14.0	13.0	17.5	15.5	18.5	17.0	24.5	22.5	21.5	20.0
11	9.5	8.5	13.5	13.5	18.5	17.0	19.0	17.0	24.0	22.5	21.0	19.5
12	9.5	8.0	14.0	13.0	19.5	18.0	19.5	17.0	23.5	22.0	21.0	19.5
13	10.0	8.0	13.0	12.5	19.0	18.0	21.0	18.5	22.5	21.5	20.5	19.0
14	10.0	9.0	12.5	12.0	18.5	17.0	21.5	19.5	22.5	20.5	20.5	19.0
15	10.5	9.5	12.5	11.5	17.5	16.5	24.0	19.0	22.5	21.0	20.5	19.0
16	11.0	9.5	12.0	11.0	17.5	16.5	20.5	19.5	23.0	21.0	20.5	19.0
17	11.0	10.0	11.5	11.0	18.5	17.0	20.5	19.5	22.5	21.5	20.5	19.0
18	11.0	10.5	11.0	10.5	19.5	17.5	20.5	20.0	22.0	21.0	20.5	19.0
19	10.5	10.5	11.0	10.5	18.5	17.5	21.5	19.5	21.0	20.0	20.5	19.0
20	10.5	10.0	12.0	10.5	19.0	16.5	23.0	20.0	21.0	19.5	20.5	19.5
21	11.0	10.0	12.5	11.5	19.5	17.5	23.5	21.0	21.5	19.5	20.5	19.5
22	11.0	10.5	13.5	12.5	19.0	18.0	24.0	21.0	22.5	20.5	20.5	19.5
23	11.5	10.5	14.5	12.5	19.5	17.0	---	21.0	22.5	21.0	20.5	19.0
24	12.0	10.5	15.5	14.0	19.5	17.5	24.0	---	23.5	21.5	20.5	19.0
25	12.0	11.0	17.0	14.5	18.5	17.5	24.0	22.0	24.0	22.0	20.5	19.5
26	12.0	11.5	19.5	16.0	17.5	17.0	24.0	22.5	24.5	22.5	20.0	19.0
27	12.0	11.5	18.5	17.0	17.5	17.0	24.5	22.5	24.5	23.0	19.5	18.0
28	12.0	11.0	17.5	16.5	19.0	16.0	25.5	23.0	24.0	22.5	18.5	17.5
29	13.0	11.0	16.5	15.0	21.0	18.0	25.5	24.0	23.0	22.0	18.5	17.0
30	13.5	12.5	15.5	14.0	22.0	20.0	26.5	24.0	22.5	21.5	18.0	17.0
31	---	---	16.0	14.0	---	---	27.0	25.0	22.0	21.5	---	---
MONTH	13.5	7.5	18.5	10.5	22.0	12.5	27.0	17.0	27.0	19.5	22.5	17.0

14324500 WEST FORK MILLICOMA RIVER NEAR ALLEGANY, OREG.

LOCATION.--Lat 43°28'35", long 124°03'20", in SW 1/4 sec.19, T.24 S., R.11 W., Coos County, at gaging station on left bank at highway bridge, 40 ft (12 m) upstream from Daggett Creek, 3.8 mi (6.1 km) north of Allegany, and at mile 6.82 (10.97 km).

DRAINAGE AREA.--46.9 mi² (121.5 km²).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1974.

Water temperatures: October 1972 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 25.5°C July 25; minimum, freezing point Jan. 6-11.

Period of record:

Water temperatures: Maximum, 25.5°C July 25, 1974; minimum, freezing point Dec. 8-16, 1972, Jan. 6-11, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 15...	10	6.2	70	4.4	1.4	4.8	.8	21	0	3.2	4.6
NOV. 26...	1080	9.0	40	3.5	.8	4.4	.5	10	0	2.7	5.9
JAN. 25...	262	9.6	130	3.3	.8	7.7	.7	10	0	4.5	6.7
APR. 04...	574	9.5	70	1.7	.6	3.8	.5	9	0	2.0	3.4
MAY 13...	61	7.7	180	3.1	.9	3.8	.6	14	0	2.9	4.3
JUNE 24...	28	7.1	50	3.3	.8	4.7	.6	16	0	2.9	5.7
AUG. 08...	7.2	6.0	980	5.3	1.5	5.2	1.0	20	--	1.8	5.1
SEP. 20...	2.9	6.1	80	3.9	1.2	5.7	.9	21	--	2.4	6.5

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT. 15...	.0	.08	36	1.05	.05	17	0	.5	7.0	53	12.0
NOV. 26...	.1	.52	34	99.1	.05	12	4	.6	7.6	39	8.5
JAN. 25...	.2	.40	40	28.3	.05	12	3	1.0	6.9	37	7.0
APR. 04...	.0	.33	27	41.4	.04	7	0	.6	7.3	35	8.3
MAY 13...	.0	.30	32	5.27	.04	11	0	.5	7.4	37	11.0
JUNE 24...	.2	.13	34	2.59	.05	12	0	.6	7.6	42	18.5
AUG. 08...	.1	.03	37	.73	.05	19	3	.5	--	51	16.0
SEP. 20...	.1	.05	38	.30	.05	15	0	.6	--	55	16.0

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)
OCT. 13...	0930	8.2	11.5	10	2
18...	0900	8.2	15.0	10	2
26...	0900	50	--	15	3
DEC. 27...	1115	1080	--	15	2
JAN. 19...	1820	1140	7.5	20	3
FEB. 25...	1800	383	9.0	10	2
APR. 29...	1600	90	16.0	15	2
MAY 09...	1305	52	14.0	10	2
15...	1115	100	10.0	10	2
22...	1315	96	14.0	15	3
29...	1300	52	15.0	20	5
JUNE 05...	1200	235	13.0	25	7
12...	1300	62	20.0	15	5
27...	1530	30	16.0	25	6
JULY 03...	1330	22	20.0	20	5
12...	1900	22	21.0	15	4
AUG. 02...	1000	12	20.0	10	4
08...	1130	7.8	17.0	10	3
14...	1000	6.2	16.5	15	3
23...	0900	5.0	18.0	10	4
30...	1100	4.1	16.5	15	2
SEP. 04...	1030	3.9	17.0	20	4
12...	1130	3.6	16.5	20	3
18...	1400	3.2	18.0	25	4

COOS RIVER BASIN

14324500 WEST FORK MILLIGOMA RIVER NEAR ALLEGANY, OREG.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.5	10.5	9.0	9.0	8.0	7.0	4.5	8.0	7.0	7.0	6.5
2	12.5	10.0	9.0	7.5	9.0	7.5	4.5	4.0	8.0	6.5	7.0	6.0
3	12.0	9.5	7.0	6.0	8.5	8.0	4.0	3.0	7.5	6.5	6.5	5.5
4	11.5	8.5	8.0	6.5	8.5	7.0	3.0	2.0	7.5	6.5	7.5	6.0
5	12.0	9.5	8.0	7.5	8.5	7.0	2.0	1.0	7.0	5.5	8.0	7.0
6	12.5	11.5	9.0	8.0	9.0	8.0	1.0	0.0	6.0	5.0	7.5	6.5
7	12.0	10.5	9.0	8.0	10.0	9.0	0.5	0.0	5.5	4.5	6.5	5.0
8	11.5	10.0	10.0	8.5	8.5	7.5	0.5	0.0	6.0	4.5	6.5	4.5
9	12.0	10.5	10.5	9.5	7.5	6.5	0.5	0.0	6.0	5.0	8.0	6.0
10	12.0	10.0	10.5	10.0	7.5	6.5	0.0	0.0	6.0	4.5	8.0	7.0
11	13.0	11.0	10.5	10.0	8.0	7.0	0.5	0.0	7.0	6.0	9.0	7.5
12	14.0	12.0	10.0	9.0	8.0	7.5	4.0	0.5	7.5	6.5	7.5	6.0
13	14.0	11.5	9.5	9.0	8.5	7.5	7.0	4.5	7.0	5.5	6.5	5.5
14	13.5	11.5	9.5	8.5	9.0	8.0	8.5	7.0	7.5	6.5	8.0	6.0
15	13.5	11.5	10.0	9.0	9.0	8.0	9.0	8.5	8.0	6.5	---	7.5
16	13.0	11.5	10.0	9.0	9.5	8.5	9.0	8.5	7.5	6.5	---	---
17	13.0	11.5	9.0	8.5	9.5	9.0	8.5	7.5	7.0	6.5	---	---
18	13.5	11.5	8.5	7.0	9.0	7.5	9.5	7.5	8.0	6.5	---	---
19	14.0	12.0	7.5	6.5	8.5	7.0	9.0	7.5	8.0	7.0	---	---
20	14.5	12.5	8.0	7.5	9.5	8.5	7.5	6.0	7.5	6.5	---	---
21	14.0	12.5	8.5	7.0	9.5	8.5	6.5	5.5	7.5	6.0	---	---
22	14.0	12.0	8.0	7.5	9.0	8.0	7.5	6.0	6.5	5.0	---	---
23	13.0	11.5	8.5	7.5	9.0	8.5	8.0	7.0	6.5	5.5	---	---
24	12.0	10.5	8.5	7.5	9.5	8.5	7.5	6.0	7.0	5.5	---	---
25	11.0	10.0	8.5	8.0	9.0	7.0	7.5	6.5	8.0	6.5	---	---
26	10.0	8.5	8.5	7.5	8.5	7.0	7.5	6.5	7.5	5.5	---	---
27	10.5	8.0	9.5	8.0	9.0	8.0	7.5	6.5	7.0	6.0	---	---
28	11.0	10.0	9.5	8.5	9.0	8.0	8.0	7.0	7.0	6.5	---	---
29	11.0	10.0	9.5	8.5	9.0	8.0	8.0	7.0	---	---	---	---
30	10.0	8.5	9.0	8.5	8.0	7.5	8.0	7.0	---	---	---	---
31	11.0	9.5	---	---	8.0	6.5	8.0	7.5	---	---	---	---
MONTH	14.5	8.0	10.5	6.0	10.0	6.5	9.5	0.0	8.0	4.5	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	19.5	16.5	23.0	18.5	21.0	16.5
2	---	---	---	---	---	---	21.5	14.5	---	---	20.0	18.0
3	---	---	---	---	---	---	22.5	15.0	---	---	21.0	17.5
4	---	---	---	---	---	---	22.5	17.0	---	---	19.5	17.0
5	---	---	---	---	---	---	20.5	17.5	---	---	20.5	17.0
6	---	---	---	---	---	---	19.5	16.0	---	---	21.0	17.0
7	---	---	---	---	---	---	17.5	15.0	---	---	20.0	17.5
8	---	---	---	---	---	---	18.0	14.5	22.0	16.0	19.5	18.0
9	---	---	---	---	---	---	16.0	15.0	23.0	17.0	19.5	18.5
10	---	---	---	---	---	---	16.0	13.5	23.0	18.0	20.0	17.5
11	---	---	---	---	---	---	18.5	13.5	22.5	18.0	19.0	16.0
12	---	---	---	---	---	---	21.0	14.0	21.0	16.5	18.0	15.0
13	---	---	13.0	---	---	---	22.5	14.5	18.5	16.0	18.0	15.0
14	---	---	11.5	10.0	---	---	21.5	16.5	21.0	15.0	18.5	16.0
15	---	---	11.0	9.5	---	---	19.5	16.0	21.5	16.0	18.5	16.5
16	---	---	9.5	8.0	---	---	18.0	15.5	21.5	16.0	19.0	16.5
17	---	---	9.0	7.5	---	---	18.0	16.0	19.5	17.0	18.0	16.0
18	---	---	10.5	8.0	---	---	18.5	16.5	19.0	16.5	18.5	15.5
19	---	---	10.0	9.0	---	---	22.0	16.0	19.0	16.5	19.0	16.0
20	---	---	12.0	9.5	---	---	24.5	17.0	21.0	15.5	18.5	15.5
21	---	---	12.0	10.0	---	---	23.5	18.0	21.0	16.0	17.5	15.5
22	---	---	12.0	10.0	---	---	23.5	17.0	22.5	17.5	18.0	16.0
23	---	---	13.5	10.5	---	---	25.0	18.5	23.0	18.5	18.0	15.5
24	---	---	14.5	11.5	20.5	---	24.5	17.0	23.0	19.0	18.0	15.5
25	---	---	---	13.5	17.0	15.0	25.5	18.0	23.5	18.5	17.5	16.0
26	---	---	---	---	15.5	12.5	24.0	17.5	23.0	19.5	17.0	15.5
27	---	---	---	---	17.0	14.0	24.5	18.5	22.5	19.5	16.0	14.5
28	---	---	---	---	21.0	12.5	24.0	18.0	21.5	18.5	15.0	13.0
29	---	---	---	---	24.0	15.5	24.0	19.0	18.5	17.5	15.0	13.0
30	---	---	---	---	23.5	18.0	23.5	18.5	17.5	15.5	13.5	13.5
31	---	---	---	---	---	---	24.5	19.0	18.0	17.0	---	---
MONTH	---	---	---	---	---	---	25.5	13.5	23.5	15.0	21.0	13.0

COQUILLE RIVER BASIN

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14324700 SOUTH FORK COQUILLE RIVER NEAR ILLAHE, OREG.

LOCATION.--Lat 42°43'30", long 124°00'40", in NW¼ sec.16, T.33 S., R.11 W., Coos County, in Siskiyou National Forest, on left bank, 1.0 mi (1.6 km) downstream from Lockhart Creek, 7.0 mi (11.3 km) north of Illahe, and at mile 85.1 (136.9 km).

DRAINAGE AREA.--40.6 mi² (65.3 km²), at measuring section 1.2 mi (1.9 km) upstream from gage.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 22.0°C July 29-31; minimum, 0.5°C Jan. 7, 9-11.

Period of record:

Water temperatures: Maximum, 23.5°C July 16, 17, 1972; minimum, freezing point Dec. 5-16, 1972.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	6.5	6.5	6.5	6.0	5.5	4.0	5.5	5.0	4.0	4.0
2	10.5	9.0	6.5	5.5	6.5	6.0	4.0	3.5	5.0	5.0	4.0	3.5
3	10.0	8.5	5.5	5.0	6.5	6.0	3.5	3.5	5.0	4.5	4.5	4.0
4	10.5	9.0	5.0	4.0	6.0	5.5	3.5	3.0	5.0	4.5	4.5	4.5
5	10.0	9.0	5.5	3.5	6.5	6.0	3.0	1.5	4.5	4.5	5.0	4.5
6	10.0	9.5	6.0	5.5	7.0	6.5	1.5	1.0	4.5	4.0	5.0	4.0
7	10.0	8.5	6.5	6.0	7.0	7.0	1.0	0.5	4.0	3.5	4.0	3.5
8	9.5	8.5	8.0	6.5	7.0	6.5	1.0	1.0	4.5	4.0	4.0	3.0
9	9.5	8.0	8.5	8.0	6.5	6.0	1.0	0.5	4.5	4.0	4.5	4.0
10	9.5	8.0	8.5	8.5	6.0	5.5	0.5	0.5	4.5	4.0	5.0	4.5
11	9.5	8.5	8.5	8.5	6.0	6.0	1.5	0.5	4.5	4.0	5.0	4.5
12	11.0	9.5	8.5	8.0	6.0	4.0	3.5	1.5	4.5	4.5	4.5	3.5
13	10.5	9.0	8.0	6.5	5.0	4.0	5.0	3.5	4.5	4.0	4.0	3.5
14	10.0	9.0	7.0	6.5	5.5	5.0	6.5	5.0	5.0	4.5	4.5	4.0
15	10.0	8.5	7.0	7.0	6.0	5.5	6.5	6.5	5.5	5.0	5.5	4.5
16	9.5	8.0	7.0	7.0	6.5	6.0	6.5	6.0	5.5	4.0	5.5	5.0
17	9.5	8.0	7.0	6.5	6.5	6.5	6.5	6.0	4.5	4.0	6.0	5.0
18	9.5	8.5	6.5	6.0	6.5	6.0	6.5	6.0	5.0	4.5	6.0	5.0
19	9.5	8.5	6.0	6.0	6.5	6.0	6.5	6.0	5.0	5.0	6.0	4.5
20	10.0	9.5	6.0	5.5	7.0	6.5	6.0	5.0	5.0	4.5	6.0	5.0
21	10.0	9.5	5.5	5.0	7.0	6.5	5.0	4.5	5.0	3.5	6.0	4.5
22	9.5	9.0	6.0	5.5	6.5	6.5	5.0	4.5	4.0	3.5	5.5	4.5
23	9.5	8.5	6.0	5.5	6.5	6.5	5.0	5.0	4.0	3.5	6.0	5.0
24	8.5	8.0	5.5	5.5	7.0	6.5	5.0	4.5	4.5	4.0	6.0	5.0
25	8.0	7.0	5.5	5.5	7.0	6.0	5.0	5.0	4.5	4.5	6.5	6.0
26	7.0	6.0	5.5	5.5	6.5	6.0	5.0	4.0	4.5	3.0	6.5	6.0
27	7.0	6.0	6.0	5.0	6.5	6.0	5.0	4.5	4.0	3.5	6.5	6.0
28	8.0	7.0	6.5	6.0	6.5	6.0	5.0	5.0	4.0	3.5	6.0	5.5
29	7.0	6.5	6.5	6.0	6.5	6.0	5.0	5.0	---	---	6.0	5.5
30	6.5	6.0	6.5	6.0	6.0	5.5	5.5	5.0	---	---	6.0	5.5
31	6.5	6.0	---	---	6.0	5.5	5.5	5.5	---	---	5.5	5.5
MONTH	11.5	6.0	8.5	3.5	7.0	4.0	6.5	0.5	5.5	3.0	6.5	3.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.5	9.5	8.5	15.0	10.5	18.0	16.0	21.5	18.5	18.0	16.0
2	5.5	5.0	10.5	6.5	15.5	11.0	18.5	15.0	21.0	18.0	18.0	16.0
3	6.0	5.0	11.0	7.0	15.5	12.0	19.0	15.0	21.0	18.0	18.0	16.5
4	6.5	5.0	12.0	8.0	14.5	11.5	19.0	15.0	21.0	18.0	17.0	15.5
5	6.5	6.0	13.5	9.0	11.5	11.0	17.0	15.5	21.0	18.5	16.5	15.5
6	6.0	5.5	14.0	10.0	12.0	11.0	17.0	14.0	20.0	17.0	16.5	15.0
7	6.5	5.5	13.0	10.5	14.0	10.0	16.0	14.5	19.0	16.0	16.5	15.5
8	6.5	6.0	14.0	10.5	15.0	10.0	15.0	14.0	18.5	15.5	16.5	15.5
9	6.0	5.5	11.5	10.0	16.0	11.0	14.0	13.0	19.5	16.0	16.5	15.5
10	6.0	5.5	11.5	9.0	17.0	12.0	13.5	12.0	19.5	16.0	15.5	14.5
11	6.0	5.5	11.0	9.5	18.0	13.5	14.5	11.5	19.5	16.5	15.0	14.0
12	6.5	5.0	10.5	8.5	18.5	14.5	16.0	12.0	18.5	16.0	15.0	14.0
13	7.0	5.0	10.0	7.0	18.0	14.0	18.0	13.5	18.0	15.5	15.0	13.5
14	8.0	5.5	9.0	8.0	17.0	14.5	18.5	14.0	17.0	15.0	14.5	13.0
15	8.0	6.5	8.5	6.5	17.0	14.0	16.5	14.5	17.0	15.0	15.0	13.0
16	8.5	5.5	7.0	5.5	16.5	14.5	15.5	14.0	18.0	15.0	14.5	13.0
17	8.0	6.5	6.5	5.5	18.0	13.5	15.5	14.5	18.0	15.0	14.5	13.5
18	8.0	6.5	6.5	6.0	18.0	14.5	18.0	15.0	16.5	15.0	15.0	13.5
19	7.0	6.0	7.0	5.5	16.5	14.0	19.5	15.5	15.5	14.5	15.0	14.0
20	8.0	6.5	8.5	6.5	16.5	12.0	20.0	16.0	16.5	14.0	15.0	14.0
21	10.5	7.0	10.5	8.5	17.0	13.5	19.5	16.0	17.0	14.0	15.0	14.0
22	9.5	7.0	10.0	8.0	16.5	14.0	19.5	15.5	18.5	15.0	15.0	14.0
23	8.0	6.0	10.5	8.5	16.0	12.0	19.5	16.0	18.5	16.5	15.0	14.0
24	7.0	5.5	11.0	9.0	16.0	12.0	19.5	16.0	18.5	16.0	15.0	14.5
25	8.0	5.5	14.5	10.0	15.5	13.5	20.0	16.5	19.0	16.5	14.5	13.5
26	7.0	6.0	15.5	11.5	14.0	12.0	20.5	17.0	19.0	17.0	14.5	13.5
27	8.0	6.5	14.5	11.5	16.5	13.5	21.0	18.0	19.0	17.0	13.5	12.0
28	9.5	6.0	13.0	10.5	17.0	13.0	21.5	18.0	19.0	16.5	12.0	11.5
29	11.0	7.0	12.0	10.0	20.0	15.0	22.0	19.0	18.5	17.0	12.0	11.5
30	10.5	9.0	13.5	9.0	20.0	17.0	22.0	18.5	18.0	17.0	12.0	11.0
31	---	---	14.5	9.5	---	---	22.0	19.0	18.5	17.0	---	---
MONTH	11.0	5.0	15.5	5.5	20.0	10.0	22.0	11.5	21.5	14.0	18.0	11.0

ROGUE RIVER BASIN

14330000 ROGUE RIVER BELOW PROSPECT, OREG.

LOCATION.--Lat 42°43'50", long 122°20'55", in SE 1/4 sec. 6, T.33 S., R.3 E., Jackson County, temperature recorder at gaging station on right bank 500 ft (152 m) downstream from Prospect No. 1 powerplant, 2.0 mi (3.2 km) southwest of Prospect, 2.1 mi (3.4 km) upstream from South Fork Rogue River, and at mile 169.4 (272.6 km).

DRAINAGE AREA.--379 mi² (982 km²).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 13.0°C Aug. 26-31; minimum, 0.5°C on several days in January.

Period of record:

Water temperatures: Maximum, 15.0°C July 5, 1970; minimum, freezing point Jan. 1, 2, 4, 5, 1970, Mar. 1, 1971.

REMARKS.--Recorder stopped Jan. 30 to Feb. 24; range in temperature, 2.0°C to 5.0°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	11.0	---	---	5.0	3.0	4.5	1.0	---	---	4.5	4.5
2	11.5	9.5	---	---	5.0	4.5	4.0	2.0	---	---	4.5	3.5
3	10.5	8.0	---	---	5.0	4.0	3.0	0.5	---	---	4.0	3.5
4	9.5	7.0	---	---	5.0	4.5	4.0	0.5	---	---	4.5	4.0
5	9.5	6.5	---	---	5.0	5.0	4.0	3.0	---	---	4.5	4.5
6	10.0	9.0	---	---	5.5	5.0	4.0	0.5	---	---	4.5	4.5
7	10.5	10.0	---	---	5.5	4.5	4.5	0.5	---	---	4.5	4.5
8	10.5	9.0	---	---	5.5	3.0	4.5	1.0	---	---	5.0	3.0
9	10.0	9.0	---	---	5.5	2.0	4.5	0.5	---	---	5.0	3.5
10	10.0	8.0	---	---	5.0	5.0	4.0	0.5	---	---	5.0	4.0
11	9.5	8.0	---	---	5.5	5.5	4.0	2.0	---	---	5.5	5.0
12	10.0	8.0	---	---	5.5	5.0	3.0	3.0	---	---	6.0	5.0
13	10.5	8.5	---	---	4.5	3.5	3.0	0.5	---	---	5.0	4.5
14	10.5	8.5	---	---	5.0	4.0	3.5	3.0	---	---	5.0	4.5
15	10.5	8.5	---	---	5.0	4.5	4.0	3.5	---	---	5.0	3.0
16	10.0	7.0	---	---	5.0	5.0	4.5	4.0	---	---	5.0	5.0
17	9.5	6.5	---	---	5.5	5.0	5.0	2.0	---	---	5.5	4.0
18	9.5	6.5	---	---	5.5	3.0	5.5	4.5	---	---	5.5	3.5
19	9.5	6.5	---	---	5.5	4.0	5.5	5.0	---	---	5.5	3.5
20	9.5	9.0	---	---	5.5	5.5	5.0	3.0	---	---	6.0	3.5
21	10.0	9.0	---	---	5.5	5.5	4.5	3.0	---	---	6.0	4.0
22	10.5	10.0	---	---	5.5	5.0	4.5	3.5	---	---	6.0	4.0
23	10.5	10.0	---	---	5.5	5.0	5.5	4.0	---	---	6.0	4.0
24	10.0	10.0	---	---	5.5	5.5	5.0	2.0	---	---	6.0	4.0
25	10.0	9.0	---	---	5.5	4.5	4.5	2.0	4.5	3.5	6.0	5.0
26	9.0	7.0	---	---	5.0	4.0	4.5	3.0	5.0	4.5	6.5	5.0
27	9.0	---	---	---	5.5	5.0	4.5	3.0	4.5	4.0	7.0	6.0
28	---	---	---	---	5.0	5.0	4.5	4.0	4.5	4.5	6.0	4.5
29	---	8.0	4.5	4.0	5.0	4.5	5.0	3.0	---	---	6.0	5.5
30	---	---	5.0	4.5	5.0	4.0	---	---	---	---	6.5	6.0
31	---	---	---	---	5.0	4.5	---	---	---	---	6.5	5.5
MONTH	11.5	6.5	---	---	5.5	2.0	5.5	0.5	---	---	7.0	3.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.5	7.0	4.5	9.0	4.5	11.0	8.5	11.0	8.5	12.5	10.0
2	6.0	5.0	7.0	4.0	9.5	4.5	10.0	6.5	11.5	8.5	12.5	10.0
3	6.0	5.0	7.0	4.0	9.0	5.0	10.0	6.5	11.0	8.0	12.5	10.0
4	6.5	4.5	7.0	4.0	9.0	6.0	10.5	7.0	11.0	8.5	12.0	9.5
5	6.0	5.5	7.0	4.0	7.0	6.0	10.5	8.5	11.0	9.5	11.5	9.0
6	6.0	5.0	8.0	4.0	8.0	5.5	10.0	8.5	10.5	9.0	11.5	9.0
7	7.0	5.0	7.0	3.5	8.5	4.5	10.0	7.0	11.0	8.5	11.5	9.0
8	7.0	5.5	7.0	3.5	9.0	4.0	9.5	8.0	10.5	8.0	11.0	8.5
9	6.0	4.5	7.0	4.0	9.5	4.5	9.5	6.5	10.0	6.5	10.5	9.0
10	6.0	5.0	6.5	4.0	9.5	4.5	9.5	8.0	10.0	8.0	11.0	8.5
11	6.0	5.5	6.0	4.0	9.0	4.0	9.0	6.0	10.5	8.0	10.0	8.0
12	5.5	4.5	6.5	4.5	8.5	4.0	9.0	6.0	10.5	8.0	10.0	7.5
13	6.0	3.5	6.5	4.5	8.5	4.0	10.0	6.5	10.0	8.0	9.5	7.5
14	6.0	3.5	6.0	4.5	9.0	4.0	9.5	7.0	10.0	7.0	10.0	7.0
15	6.0	5.0	6.0	4.0	9.0	4.5	9.0	6.5	10.5	8.5	9.5	7.0
16	5.5	4.0	5.5	3.5	8.5	5.5	9.5	7.0	10.0	7.0	10.0	7.5
17	6.5	4.0	5.0	4.5	9.5	5.0	10.0	8.0	10.0	8.5	10.5	7.5
18	6.5	5.0	5.5	4.5	9.5	5.5	10.0	8.0	10.0	8.5	10.5	8.0
19	5.5	4.5	6.0	5.0	9.5	6.5	11.0	8.5	9.5	9.0	10.5	8.0
20	6.0	5.0	6.5	5.0	8.0	4.5	11.0	8.0	10.0	7.5	10.5	8.0
21	6.5	4.5	7.0	5.5	9.5	5.5	11.0	8.0	11.0	8.0	10.5	8.0
22	7.0	5.0	6.5	4.5	9.5	6.0	11.0	9.0	11.5	9.0	10.5	8.0
23	6.5	5.0	8.0	6.0	10.0	7.0	10.5	7.0	12.0	9.5	10.5	8.5
24	6.5	5.0	8.0	5.0	10.0	6.5	10.5	8.0	12.0	9.5	10.5	8.0
25	6.0	4.5	9.0	5.0	10.0	7.0	10.5	8.0	12.5	9.5	10.0	8.0
26	6.0	4.5	9.5	4.5	8.5	5.0	10.5	8.5	13.0	10.0	9.5	7.5
27	5.5	4.5	9.0	4.5	9.0	6.0	11.0	8.0	13.0	10.0	8.0	6.5
28	6.5	5.0	9.0	4.5	10.0	6.5	11.0	8.0	13.0	10.5	8.0	6.0
29	8.0	4.5	8.5	4.5	10.5	6.5	11.0	8.5	13.0	10.5	8.5	6.5
30	7.0	4.5	8.5	4.0	11.0	8.0	11.5	8.5	13.0	10.5	8.5	6.5
31	---	---	8.5	4.5	---	---	11.0	8.5	13.0	10.5	---	---
MONTH	8.0	3.5	9.5	3.5	11.0	4.0	11.5	6.0	13.0	6.5	12.5	6.0

14334700 SOUTH FORK ROGUE RIVER SOUTH OF PROSPECT, OREG.

LOCATION.--Lat 42°42'45", long 122°30'20", in NW¼SE¼ sec.7, T.33 S., R.3 E., Jackson County, temperature recorder at gaging station on right bank, 2.8 mi (4.5 km) southwest of Prospect, and at mile 2.4 (3.9 km).

DRAINAGE AREA.--246 mi² (396 km²).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 15.5°C July 28 to Aug. 3; minimum, 2.0°C Jan. 6, 7, 9, 10, Mar. 2, 8.

Period of record:

Water temperatures: Maximum, 18.0°C Aug. 12, 13, 1971; minimum, 0.5°C Dec. 9-15, 1972.

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	9.0	8.0	5.5	5.5	5.0	4.0	4.5	4.5	3.5	3.5
2	10.0	9.0	8.0	6.5	5.5	5.5	4.0	3.5	4.5	4.0	3.5	2.0
3	9.0	9.0	6.5	6.5	5.5	5.5	3.5	3.5	4.0	4.0	3.5	3.5
4	9.0	8.5	6.5	6.5	5.5	5.0	3.5	3.5	4.0	4.0	4.0	3.5
5	9.0	8.5	6.5	5.5	5.5	5.0	3.5	3.0	4.0	4.0	4.0	4.0
6	9.0	9.0	6.0	5.5	5.5	5.5	3.0	2.0	4.0	3.0	4.0	4.0
7	9.0	9.0	6.5	6.0	5.5	5.5	3.0	2.0	4.0	3.5	4.0	4.0
8	9.0	9.0	6.5	6.5	5.5	5.0	3.0	3.0	4.0	4.0	4.0	2.0
9	9.0	8.5	7.0	6.5	5.5	5.0	3.0	2.0	4.0	4.0	4.5	3.0
10	9.0	8.5	7.0	7.0	5.0	5.0	3.0	2.0	4.0	4.0	4.5	4.0
11	9.0	9.0	7.0	7.0	5.5	5.0	3.5	3.0	4.0	4.0	5.0	4.5
12	9.5	9.0	7.0	7.0	5.5	5.5	4.5	3.5	4.0	4.0	5.0	4.5
13	9.5	9.0	6.5	6.5	5.5	5.0	4.5	4.5	4.0	4.0	5.0	4.0
14	9.0	9.0	6.5	6.0	5.5	5.0	5.0	4.5	4.0	3.5	5.0	4.5
15	9.0	9.0	6.5	6.0	5.5	5.5	5.0	5.0	4.0	4.0	5.5	4.5
16	9.0	9.0	6.5	6.5	5.5	5.5	5.0	5.0	4.0	4.0	5.5	5.5
17	9.0	9.0	6.5	6.5	5.5	5.5	5.0	5.0	4.0	4.0	6.0	5.5
18	9.0	8.5	6.5	6.0	5.5	5.5	5.5	5.0	4.0	3.5	5.5	4.5
19	9.0	9.0	6.0	5.5	5.5	5.5	5.5	5.5	3.5	3.5	5.5	4.5
20	10.0	9.0	5.5	5.5	5.5	5.5	5.5	5.0	3.5	3.5	5.5	4.5
21	10.0	10.0	5.5	5.5	5.5	5.5	5.0	4.5	3.5	3.5	5.5	4.5
22	10.0	9.0	5.5	5.5	5.5	5.5	4.5	4.0	3.5	3.5	5.5	4.5
23	9.0	9.0	5.5	5.5	5.5	5.5	4.5	4.0	3.5	3.0	5.5	4.5
24	9.0	8.5	5.5	5.5	5.5	5.5	4.5	4.0	4.0	3.5	5.5	4.5
25	9.0	8.0	5.5	5.5	5.5	5.0	4.5	4.5	4.5	4.0	6.0	5.5
26	8.0	7.0	5.5	5.5	5.0	4.5	4.5	4.0	4.5	4.0	5.5	5.0
27	8.0	8.0	5.5	5.5	5.0	5.0	4.0	4.0	4.0	3.5	5.5	5.5
28	8.5	8.0	5.5	5.5	5.0	5.0	4.5	4.0	4.0	3.5	5.5	4.5
29	8.5	8.0	5.5	5.5	5.0	5.0	4.5	4.0	---	---	6.0	5.0
30	8.0	8.0	5.5	5.5	5.0	5.0	4.5	4.0	---	---	6.0	5.5
31	9.0	8.0	---	---	5.0	5.0	4.5	4.5	---	---	6.0	5.5
MONTH	11.0	7.0	9.0	5.5	5.5	4.5	5.5	2.0	4.5	3.0	6.0	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	7.0	6.0	10.0	7.0	13.5	10.5	15.5	13.0	14.5	12.0
2	5.5	5.5	6.5	4.5	9.5	7.0	12.0	9.5	15.5	13.0	14.0	12.0
3	6.0	5.5	6.5	4.5	9.5	7.0	13.5	10.0	15.5	13.0	13.5	12.0
4	6.0	5.0	7.0	4.5	9.0	7.0	13.5	10.0	15.0	13.0	13.5	11.0
5	5.5	5.5	8.0	5.0	7.0	6.0	13.0	10.5	15.0	13.0	13.0	10.5
6	5.5	5.0	8.5	6.0	7.0	6.0	13.0	10.0	15.0	12.0	12.0	10.5
7	5.5	4.5	8.5	6.0	8.0	5.5	12.0	9.5	14.5	11.0	12.0	10.5
8	5.5	5.0	8.0	5.5	9.0	6.0	11.5	10.5	14.0	10.5	12.0	11.0
9	5.5	---	8.0	5.0	9.5	6.0	11.5	9.5	14.0	11.0	12.0	11.0
10	---	---	6.5	5.5	10.0	7.0	11.5	10.0	14.5	11.5	12.0	11.0
11	---	---	7.0	6.0	10.0	8.0	11.0	9.0	14.5	11.5	12.0	10.0
12	---	---	7.0	6.0	10.0	8.0	12.0	8.5	14.0	11.0	11.0	10.0
13	---	---	6.5	5.0	10.0	8.0	13.0	8.5	13.5	10.5	11.0	10.0
14	---	---	6.5	5.5	10.0	8.0	13.0	10.0	13.0	10.5	11.0	9.5
15	---	---	6.5	5.0	10.0	8.0	12.0	10.5	13.0	10.5	11.0	9.5
16	---	4.5	5.0	5.0	11.0	9.0	11.5	9.0	13.0	11.0	11.5	10.0
17	---	---	5.0	4.5	11.5	9.5	12.0	11.0	14.0	11.5	11.5	10.0
18	---	---	6.0	5.5	11.5	9.5	14.0	11.0	14.0	11.5	11.5	10.5
19	---	---	6.5	5.5	11.5	10.0	14.5	11.0	12.0	11.0	12.5	8.5
20	---	---	8.0	5.5	11.5	9.0	14.5	11.0	12.0	9.0	12.5	8.5
21	---	---	9.0	5.5	11.5	9.5	14.5	11.0	12.0	10.0	12.5	9.0
22	6.0	6.0	9.0	6.0	11.5	9.5	14.5	11.0	13.5	11.0	12.5	9.0
23	6.0	5.0	9.0	6.5	11.5	10.0	14.5	10.5	14.0	11.5	12.5	9.5
24	6.0	5.0	10.0	7.0	11.5	9.5	15.0	11.5	14.0	11.5	12.5	9.0
25	5.5	4.5	10.0	8.0	12.0	10.5	15.0	11.5	14.0	11.5	12.0	9.0
26	5.5	4.5	10.0	8.0	11.0	8.5	15.0	13.0	14.5	12.0	11.0	8.0
27	4.5	4.5	9.5	7.0	12.0	9.5	15.0	13.0	14.5	12.0	10.5	7.0
28	---	---	9.0	6.5	13.5	9.5	15.5	13.0	14.5	12.0	10.5	6.5
29	---	---	9.5	7.0	13.5	10.0	15.5	13.5	14.5	12.0	10.5	7.0
30	8.0	5.5	9.0	6.0	13.5	10.5	15.5	13.0	14.5	13.0	10.5	7.0
31	---	---	9.5	6.5	---	---	15.5	13.0	14.5	13.0	---	---
MONTH	---	---	10.0	4.5	13.5	5.5	15.5	8.5	15.5	9.0	14.5	6.5

14335075 ROGUE RIVER AT MCLEOD, OREG.

LOCATION.--Lat 42°39'35", long 122°41'30", in SW 1/4 sec. 34, T. 33 S., R. 1 E., Jackson County, on right bank 0.3 mi (0.5 km) upstream from mouth of Big Butte Creek, 0.1 (0.2 km) southwest of McLeod, and at mile 155.6 (250.4 km).

DRAINAGE AREA.--690 mi² (1,787 km²), approximately.

PERIOD OF RECORD.--Turbidity: May 1973 to September 1974.

EXTREMES.--1972-73:

Turbidity: Maximum recorded, 95 JTU May 30; minimum recorded, 0 JTU on many days.

1973-74:

Turbidity: Maximum, 550 JTU Jan. 15; minimum, 0 JTU on many days.

Period of record:

Turbidity: Maximum, 550 JTU Jan. 15, 1974; minimum, 0 JTU on many days.

REMARKS.--Turbidity peak of May 30, 1973 caused by opening of diversion tunnel at Lost Creek dam site. Maximum for Nov. 5, 1973 may have been higher, meter set on 0-100 JTU scale.

TURBIDITY (JTU) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	2	1	2
10	---	---	---	---	---	---	---	---	---	2	1	2
11	---	---	---	---	---	---	---	---	---	2	1	2
12	---	---	---	---	---	---	---	---	---	3	1	2
13	---	---	---	---	---	---	---	---	---	2	1	2
14	---	---	---	---	---	---	---	---	---	2	2	2
15	---	---	---	---	---	---	---	---	---	3	2	2
16	---	---	---	---	---	---	---	---	---	4	2	3
17	---	---	---	---	---	---	---	---	---	3	2	3
18	---	---	---	---	---	---	---	---	---	6	2	3
19	---	---	---	---	---	---	---	---	---	10	2	4
20	---	---	---	---	---	---	---	---	---	4	2	2
21	---	---	---	---	---	---	---	---	---	10	2	2
22	---	---	---	---	---	---	---	---	---	9	1	4
23	---	---	---	---	---	---	---	---	---	15	3	4
24	---	---	---	---	---	---	---	---	---	30	3	15
25	---	---	---	---	---	---	---	---	---	25	3	8
26	---	---	---	---	---	---	---	---	---	3	2	2
27	---	---	---	---	---	---	---	---	---	2	1	1
28	---	---	---	---	---	---	---	---	---	2	1	1
29	---	---	---	---	---	---	---	---	---	1	1	1
30	---	---	---	---	---	---	---	---	---	95	1	15
31	---	---	---	---	---	---	---	---	---	20	5	10
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25	4	10	1	0	1	0	0	0	4	2	3
2	6	2	4	1	0	1	1	0	0	3	2	2
3	3	2	2	1	0	1	1	0	1	2	1	2
4	2	2	2	1	0	1	1	0	1	2	1	2
5	2	2	2	1	0	1	1	0	1	2	2	2
6	2	1	2	1	0	1	2	1	1	2	2	2
7	2	1	1	1	0	1	2	1	1	9	2	2
8	2	1	1	1	0	1	4	1	2	3	2	2
9	2	1	1	1	0	1	2	1	2	3	2	2
10	2	1	1	1	0	0	3	1	2	6	2	2
11	2	1	1	1	0	0	2	1	2	3	2	2
12	1	1	1	0	0	0	2	1	2	3	2	3
13	1	1	1	1	0	0	2	1	1	9	3	4
14	2	1	1	0	0	0	2	1	1	6	3	4
15	1	1	1	0	0	0	1	1	1	4	3	3
16	1	1	1	0	0	0	1	1	1	3	2	2
17	2	1	1	0	0	0	2	1	1	6	2	3
18	2	1	1	1	0	0	2	1	1	5	2	3
19	2	0	1	1	0	0	1	0	1	4	3	3
20	1	0	1	1	0	1	1	1	1	4	3	3
21	1	0	1	1	0	1	4	1	1	4	3	3
22	1	1	1	1	0	1	2	1	1	3	3	3
23	1	1	1	1	0	1	2	0	1	3	2	3
24	1	0	1	1	0	1	1	0	1	4	3	3
25	1	0	1	0	0	0	2	0	1	7	4	5
26	1	0	1	1	0	0	2	1	1	4	3	4
27	1	0	1	1	0	0	2	1	1	5	2	3
28	1	0	1	1	0	0	2	0	1	3	2	2
29	1	0	1	1	0	0	2	1	2	3	2	2
30	1	1	1	1	0	0	2	0	2	2	2	2
31	---	---	---	1	0	0	4	2	2	---	---	---
MONTH	25	0	1	1	0	0	4	0	1	9	1	2

ROGUE RIVER BASIN

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14335075 ROGUE RIVER AT MCLEOD, OREG.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3	2	2	15	4	8	20	8	15	20	1	10
2	3	2	2	6	3	4	10	3	8	30	7	15
3	3	2	3	6	2	3	10	1	7	20	2	10
4	3	2	3	10	2	3	10	4	8	35	3	15
5	6	2	3	100	8	---	7	1	4	25	10	15
6	3	2	2	150	40	80	4	0	2	---	---	---
7	2	1	2	35	20	25	25	2	10	---	---	---
8	2	1	2	---	---	---	10	0	---	---	---	---
9	3	1	2	---	---	---	10	0	---	---	---	---
10	2	2	2	---	---	---	15	6	8	---	---	---
11	3	1	2	---	---	---	6	2	4	30	2	---
12	2	1	1	---	---	---	40	0	8	7	2	---
13	2	0	1	---	---	---	15	4	9	160	3	---
14	2	0	1	---	---	---	8	2	5	240	6	70
15	2	0	1	---	---	---	5	0	---	550	90	190
16	2	0	1	---	---	---	7	1	3	140	15	65
17	2	0	1	---	---	---	25	2	7	85	35	55
18	2	0	1	---	---	---	9	0	6	40	3	---
19	2	1	1	10	4	---	10	1	5	10	2	---
20	2	1	1	10	4	---	4	0	2	8	2	---
21	10	0	4	15	5	---	3	0	1	4	2	---
22	15	4	10	9	4	---	3	1	2	4	2	---
23	10	5	7	10	5	---	3	0	---	2	2	---
24	10	4	5	9	5	---	2	0	---	2	2	2
25	30	3	7	9	6	---	6	0	3	2	2	2
26	5	3	3	9	4	---	7	0	3	2	2	2
27	5	3	3	10	3	---	2	0	1	2	2	2
28	6	2	4	6	2	4	3	0	2	2	2	2
29	10	3	4	20	4	15	7	0	---	3	1	2
30	10	2	4	35	15	25	8	1	6	25	1	3
31	20	2	6	---	---	---	10	3	7	1	1	1
MONTH	30	0	2	---	---	---	40	0	5	550	1	---

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1	1	1	20	5	10	40	10	20	7	4	5
2	1	1	1	7	5	6	15	10	10	5	3	4
3	1	1	1	5	3	4	10	7	8	3	2	2
4	1	1	1	4	3	4	10	6	7	3	2	3
5	7	1	---	4	3	3	10	5	7	4	2	3
6	15	1	6	8	4	6	6	4	5	8	4	6
7	10	1	5	6	4	4	4	3	4	10	6	8
8	10	1	4	5	2	4	6	3	3	8	6	7
9	8	1	3	5	2	3	7	4	4	9	5	7
10	10	1	4	4	1	2	20	2	8	6	4	5
11	8	1	3	9	2	4	10	2	4	4	3	4
12	4	1	3	10	5	7	7	2	3	4	3	4
13	7	1	4	9	4	6	3	1	2	4	3	3
14	3	0	0	45	7	20	2	1	2	3	2	3
15	2	1	1	40	15	25	2	1	2	3	2	3
16	15	1	5	15	10	10	2	1	2	3	2	2
17	4	1	2	10	9	9	3	1	2	3	2	2
18	30	1	15	15	8	10	2	2	2	2	1	2
19	35	8	20	15	7	9	6	2	3	2	1	2
20	10	1	6	9	6	7	3	1	2	3	1	2
21	20	3	9	8	5	6	2	1	1	2	1	2
22	15	2	6	5	4	5	2	1	2	2	0	1
23	8	1	3	5	3	4	8	2	3	2	1	1
24	5	1	2	4	2	3	4	2	3	2	1	1
25	7	1	---	4	2	3	4	2	3	9	1	3
26	10	3	7	6	3	4	3	2	3	20	3	8
27	9	3	5	10	3	4	3	1	2	7	4	6
28	15	3	9	45	8	15	2	1	1	---	---	---
29	---	---	---	40	7	15	3	1	2	---	---	---
30	---	---	---	50	20	30	5	2	3	---	---	---
31	---	---	---	20	10	15	---	---	---	---	---	---
MONTH	35	0	4	50	1	8	40	1	4	20	0	3

ROGUE RIVER BASIN

14335075 ROGUE RIVER AT MCLEOD, OREG.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1	1	1	3	0	1	0	0	0
2	---	---	---	1	1	1	1	0	0	0	0	0
3	---	---	---	1	1	1	1	0	0	0	0	0
4	---	---	---	1	0	0	0	0	0	0	0	0
5	---	---	---	1	1	1	1	0	0	0	0	0
6	---	---	---	1	0	0	0	0	0	1	0	0
7	---	---	---	1	1	1	0	0	0	1	0	0
8	---	---	---	1	1	1	0	0	0	2	0	0
9	---	---	---	1	0	0	1	0	0	0	0	0
10	---	---	---	1	0	1	0	0	0	0	0	0
11	---	---	---	1	0	0	0	0	0	1	0	0
12	---	---	---	1	1	1	2	0	0	1	0	0
13	---	---	---	1	1	1	0	0	0	0	0	0
14	---	---	---	1	0	0	0	0	0	2	0	0
15	---	---	---	1	0	0	1	0	0	1	0	0
16	---	---	---	1	0	0	0	0	0	0	0	0
17	---	---	---	2	1	2	2	0	0	1	0	0
18	10	6	8	2	2	2	0	0	0	2	0	0
19	10	7	8	2	2	2	5	0	0	0	0	0
20	9	5	6	3	2	2	1	0	0	1	0	0
21	5	4	5	4	1	2	0	0	0	0	0	0
22	5	4	4	2	1	1	0	0	0	0	0	0
23	4	3	4	2	1	1	2	0	0	1	0	0
24	3	3	3	2	1	1	0	0	0	1	0	0
25	3	3	3	2	1	1	0	0	0	2	0	0
26	15	0	2	2	0	1	0	0	0	0	0	0
27	1	1	1	2	1	1	0	0	0	1	0	0
28	1	1	1	2	0	1	0	0	0	1	0	0
29	10	1	1	15	0	2	0	0	0	1	0	0
30	1	0	1	15	1	3	0	0	0	0	0	0
31	---	---	---	3	0	1	0	0	0	---	---	---
MONTH	---	---	---	15	0	1	5	0	0	2	0	0

14337500 BIG BUTTE CREEK NEAR MCLEOD, OREG.

LOCATION.--Lat 42°39'05", long 122°41'25", in NE 1/4 sec. 3, T.34 S., R.1 E., Jackson County, temperature recorder at gaging station on right bank, 225 ft (69 m) upstream from county road bridge, 0.9 mi (1.4 km) south of McLeod, and at mile 0.64 (1.03 km).

DRAINAGE AREA.--245 mi² (394 km²).

PERIOD OF RECORD.--Water temperatures: August 1970 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 23.0°C Aug. 3, 4; minimum recorded, 1.0°C Jan. 6-8, 10, 11.

Period of record:

Water temperatures: Maximum, 24.0°C June 27, July 15-17, 1973; minimum, freezing point Feb. 28 to Mar. 2, 1971, Feb. 2, 1972.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	10.0	10.0	8.0	---	---	---	---	6.5	6.0	5.0	4.0
2	11.5	8.0	8.0	6.5	---	---	---	---	6.0	4.5	4.5	3.5
3	11.5	7.0	8.0	6.0	---	---	---	---	5.5	4.5	5.5	3.5
4	11.5	8.0	7.0	6.0	---	---	3.0	---	6.0	5.0	5.5	4.0
5	11.0	8.0	7.0	5.0	---	---	3.5	2.0	5.5	4.5	6.0	5.5
6	11.0	9.5	8.5	7.0	---	---	2.0	1.0	5.0	3.5	6.0	4.5
7	11.5	9.5	8.5	7.0	---	---	2.0	1.0	5.5	3.5	5.5	4.0
8	10.5	8.0	10.0	8.5	---	---	2.0	1.0	6.0	4.0	5.5	2.0
9	11.0	8.0	10.5	10.0	---	---	2.0	1.5	6.0	4.5	6.5	4.0
10	11.0	8.0	10.5	10.0	---	---	2.0	1.0	6.0	4.5	6.5	5.0
11	11.5	8.5	11.0	10.5	---	---	3.5	1.0	6.0	4.5	7.0	6.0
12	13.0	10.0	10.5	9.0	---	---	4.5	3.5	6.0	4.5	7.0	6.0
13	12.0	9.0	9.0	7.0	---	---	4.0	1.5	5.5	3.5	6.5	5.0
14	12.0	9.5	8.0	7.0	---	---	5.5	4.0	6.5	5.0	7.0	6.0
15	11.5	9.0	9.0	8.0	---	---	6.5	5.5	6.5	5.5	9.5	6.5
16	11.5	8.5	9.0	8.5	---	---	6.5	6.0	6.5	5.5	9.0	6.5
17	11.5	8.5	8.5	7.0	---	---	6.5	6.0	6.0	5.0	9.0	7.0
18	11.5	8.5	7.0	6.0	---	---	8.0	6.5	6.0	5.0	8.5	5.5
19	10.5	9.0	6.0	5.0	---	---	7.0	6.5	6.0	5.0	9.0	5.5
20	13.5	10.5	7.0	6.0	---	---	6.5	5.5	6.0	4.5	8.5	5.5
21	13.0	11.0	---	---	---	---	5.5	4.5	5.5	4.5	8.5	5.5
22	11.0	10.5	---	---	---	---	6.0	5.0	5.5	4.0	8.5	5.5
23	11.0	10.0	---	---	---	---	6.0	5.0	5.5	4.0	8.5	5.0
24	11.0	9.5	---	---	---	---	6.0	5.0	6.5	4.0	9.5	5.5
25	10.0	9.0	---	---	---	---	6.5	6.0	7.0	6.0	10.0	8.5
26	10.0	8.0	---	---	---	---	6.5	5.5	6.5	5.0	9.0	7.0
27	10.0	7.0	---	---	---	---	6.0	5.5	6.0	4.5	9.0	8.0
28	9.5	8.5	---	---	---	---	6.5	5.5	6.0	4.0	9.0	6.5
29	9.5	8.5	---	---	---	---	6.0	4.5	---	---	9.0	8.0
30	9.5	7.0	---	---	---	---	6.0	4.5	---	---	9.0	8.0
31	10.5	8.5	---	---	---	---	6.5	6.0	---	---	8.0	6.0
MONTH	13.5	7.0	---	---	---	---	8.0	1.0	7.0	3.5	10.0	2.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	6.5	13.5	10.5	18.5	11.5	19.5	14.5	22.0	16.5	20.0	15.0
2	8.0	6.0	13.5	9.0	18.5	12.0	18.5	12.0	22.0	16.5	20.0	15.0
3	8.5	6.0	13.5	9.0	18.0	13.0	20.0	13.5	23.0	16.5	19.5	15.0
4	9.5	5.5	14.5	9.5	15.0	13.0	20.0	14.0	23.0	17.0	19.0	14.0
5	9.0	8.0	15.5	10.5	13.5	12.0	19.0	14.5	19.5	17.0	18.5	13.5
6	8.5	7.0	15.5	11.5	16.0	11.0	18.0	14.0	21.0	15.5	18.5	13.5
7	10.0	6.0	15.0	11.5	16.0	10.5	16.0	13.0	20.0	14.5	18.5	14.0
8	10.0	8.0	16.0	12.0	17.0	10.5	15.0	13.5	19.5	13.5	18.0	13.0
9	8.5	6.5	13.0	10.5	18.5	11.5	18.0	11.5	20.0	14.0	17.0	13.5
10	9.0	6.5	13.5	10.5	19.5	13.0	16.0	13.5	21.0	15.0	18.0	14.0
11	9.0	8.0	14.5	10.5	19.0	14.0	17.0	11.0	20.5	15.5	16.5	11.5
12	9.5	6.0	13.5	10.5	20.0	14.5	19.0	13.0	20.0	14.5	16.0	11.5
13	10.0	6.0	11.5	9.0	20.0	14.5	18.5	13.5	20.5	13.5	16.0	11.0
14	10.5	6.5	11.5	9.0	21.0	15.0	18.5	13.0	21.0	15.0	15.5	10.5
15	10.0	8.0	11.0	9.0	19.0	15.0	19.0	13.0	20.5	15.5	15.5	10.5
16	10.5	6.0	10.5	8.5	18.5	14.0	19.0	13.5	20.0	14.0	16.0	10.5
17	11.0	8.0	10.0	7.0	20.5	13.5	19.0	15.5	20.0	16.0	16.0	11.0
18	10.5	8.0	10.0	8.0	21.0	15.5	16.0	14.0	21.0	15.5	16.5	11.0
19	9.0	6.5	10.5	8.0	19.0	14.5	15.0	13.0	22.0	17.0	16.0	11.0
20	11.0	8.0	13.0	8.5	19.0	12.0	18.0	11.0	22.0	16.5	16.5	11.0
21	11.5	7.0	12.0	9.0	20.0	13.5	18.5	12.0	22.0	16.5	16.5	11.0
22	11.5	9.5	14.5	9.0	20.0	14.5	19.5	14.0	21.0	15.5	16.5	11.0
23	10.5	8.5	14.0	10.0	19.5	15.0	21.0	14.5	20.5	15.5	17.0	11.0
24	9.5	7.0	16.0	10.0	20.0	14.0	21.5	15.0	20.0	14.5	16.5	11.0
25	10.5	6.5	18.0	12.0	18.0	14.5	21.5	15.0	20.5	15.0	16.0	11.0
26	9.0	6.5	18.0	13.0	16.5	13.0	21.5	16.0	20.5	15.5	15.0	10.5
27	9.5	7.0	16.5	13.0	19.0	13.0	21.5	16.0	20.5	15.5	13.5	9.0
28	12.0	7.0	15.5	11.0	19.5	13.5	22.0	16.0	20.5	15.5	13.5	8.5
29	13.5	9.0	15.5	10.5	21.0	14.5	22.0	17.0	21.0	16.0	14.0	9.0
30	14.0	10.5	15.5	10.0	21.0	15.5	22.0	17.0	21.0	16.0	14.0	9.5
31	---	---	17.0	10.5	---	---	22.0	17.0	20.5	15.5	---	---
MONTH	14.0	5.5	18.0	7.0	21.0	10.5	22.0	11.0	23.0	13.5	20.0	8.5

14337600 ROGUE RIVER NEAR MCLEOD, OREG.

LOCATION.--Lat 42°39'20", long 122°42'50", in SW¼ sec.33, T.33 S., R.1 E., Jackson County, temperature recorder at gaging station on left bank at Obsolete J Ranch, 1.3 mi (2.1 km) downstream from Butte Creek, 1.6 mi (2.6 km) southwest of McLeod, and at mile 154.0 (247.7 km).

DRAINAGE AREA.--938 mi² (2,429 km²).

PERIOD OF RECORD.--Water temperatures: August 1970 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 16.5°C June 30, July 1, 21, July 29 to Aug. 1; minimum, 1.0°C Dec. 13.

Period of record:

Water temperatures: Maximum, 18.0°C July 17, 18, Aug. 7, 1973; minimum, 0.5°C Jan. 3-5, 14, 15, 1971.

REMARKS.--Recorder stopped Nov. 3-7; range in temperature, 6.0°C to 8.0°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	9.0	8.0	4.5	4.5	4.0	3.5	5.0	5.0	5.5	5.0
2	10.5	10.0	8.0	---	5.0	4.5	3.5	2.0	5.0	4.0	5.5	5.0
3	10.0	9.0	---	---	4.5	4.5	2.0	2.0	4.5	4.0	5.0	5.0
4	9.5	9.0	---	---	4.5	4.5	2.0	2.0	5.5	5.0	5.5	5.0
5	9.5	9.5	---	---	4.5	4.5	2.0	2.0	5.5	4.0	6.0	5.5
6	9.5	9.5	---	---	4.5	4.5	2.0	1.5	5.0	4.0	6.0	6.0
7	10.0	9.5	---	---	4.5	4.5	2.0	1.5	4.0	4.0	6.0	5.0
8	10.0	9.5	9.0	---	4.5	4.5	3.5	3.0	4.0	3.5	6.0	4.5
9	9.5	9.0	9.0	9.0	4.5	4.5	4.0	3.0	3.5	3.5	6.0	5.0
10	9.5	9.0	9.0	8.5	4.5	4.0	4.0	3.0	3.5	3.5	6.0	5.5
11	9.5	9.0	8.5	8.5	4.0	3.5	3.5	3.0	3.5	3.5	7.0	6.0
12	9.0	8.5	8.5	8.0	3.5	2.0	3.5	3.0	3.5	3.5	7.0	6.0
13	9.5	8.5	8.0	7.0	3.5	1.0	3.5	3.0	4.5	1.5	6.0	5.5
14	9.5	9.0	7.0	7.0	3.5	3.5	3.5	3.0	5.0	2.0	6.0	6.0
15	9.5	9.0	7.0	6.5	3.5	3.5	3.5	3.0	6.0	5.5	7.0	5.5
16	9.0	8.5	6.5	6.0	3.5	3.5	3.5	3.0	6.5	6.0	7.0	6.0
17	9.0	8.5	6.0	5.5	3.5	3.5	4.5	3.5	6.5	6.0	7.0	6.0
18	9.5	9.0	5.5	5.5	4.0	3.5	5.5	4.5	6.5	6.5	7.0	5.5
19	10.0	9.0	5.0	4.5	4.0	3.5	5.5	4.5	6.5	6.5	7.0	5.5
20	10.0	9.5	4.5	4.5	4.0	3.5	5.0	4.0	6.5	6.0	7.0	6.0
21	10.0	10.0	4.5	4.5	4.5	4.0	4.5	4.0	6.5	6.5	7.0	6.0
22	10.0	10.0	4.5	4.5	4.5	4.5	4.5	4.0	6.5	6.0	7.0	6.0
23	10.0	10.0	4.5	4.5	5.0	4.5	5.0	4.5	6.5	5.5	7.0	6.0
24	10.0	9.0	4.5	4.5	5.5	5.0	4.5	4.5	6.5	5.5	8.0	6.0
25	9.0	9.0	4.5	4.5	5.5	4.5	4.5	4.5	7.0	6.5	8.5	7.0
26	9.0	8.5	4.5	4.5	4.5	4.5	5.0	4.5	7.0	6.5	8.5	7.0
27	9.0	8.5	4.5	4.5	4.5	4.5	5.0	4.5	6.5	6.0	7.0	6.5
28	9.0	8.5	4.5	4.5	4.5	4.5	5.0	4.5	6.0	5.5	8.0	6.0
29	8.5	8.0	4.5	4.5	4.5	4.5	5.0	4.0	---	---	6.5	6.0
30	8.5	8.5	4.5	4.0	4.5	4.0	5.0	4.0	---	---	6.5	6.0
31	9.0	8.5	---	---	4.0	4.0	5.0	5.0	---	---	6.5	5.5
MONTH	11.0	8.0	9.0	---	5.5	1.0	5.5	1.5	7.0	1.5	8.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	5.5	10.5	9.5	12.0	10.5	16.5	15.5	16.5	15.5	14.5	13.0
2	6.0	5.5	10.0	8.5	12.0	11.0	16.0	14.5	16.0	15.0	14.0	13.0
3	6.5	5.5	10.0	8.5	12.0	11.0	15.0	13.5	16.0	15.0	14.0	13.0
4	7.0	5.5	10.0	9.0	11.5	11.0	15.0	14.0	16.0	15.0	14.0	12.0
5	7.0	6.5	10.0	9.0	10.5	10.0	15.5	14.5	16.0	15.0	13.5	12.0
6	7.0	6.5	10.5	9.5	11.0	9.5	15.5	14.0	15.5	14.5	13.0	11.5
7	8.0	6.0	10.5	9.0	11.0	10.0	15.0	14.0	15.5	14.5	12.0	11.0
8	8.0	7.0	10.0	9.0	11.5	10.5	14.5	14.0	15.0	14.0	12.0	11.0
9	8.0	6.0	10.0	9.0	12.0	10.5	14.0	13.0	14.5	13.5	12.0	11.0
10	8.5	7.0	9.5	8.5	13.0	11.5	14.5	13.5	15.0	14.0	12.0	11.0
11	8.5	8.0	9.5	9.0	13.0	11.5	14.0	13.0	15.0	14.0	12.0	10.5
12	8.5	6.5	10.0	9.0	13.0	11.5	14.5	13.0	15.0	14.0	11.0	10.0
13	8.5	6.5	9.5	8.0	13.0	11.5	15.0	13.5	14.5	13.5	11.0	10.0
14	9.0	7.0	9.5	8.5	13.0	11.5	15.5	14.5	14.5	13.5	11.0	9.5
15	9.0	8.0	9.5	8.5	13.5	12.0	15.5	15.0	14.5	14.0	10.5	9.5
16	8.5	6.5	9.0	8.0	13.5	12.0	15.5	14.5	14.5	13.0	10.0	9.0
17	9.0	8.0	8.5	7.0	14.0	13.0	15.0	14.5	13.5	12.0	10.0	9.0
18	9.5	8.5	8.5	8.0	14.5	13.5	15.5	14.0	13.0	12.0	10.5	9.5
19	8.5	7.0	9.0	8.5	14.5	13.0	16.0	15.0	13.5	12.0	11.0	10.0
20	9.0	8.0	10.0	9.0	13.5	11.5	16.0	15.0	12.0	11.0	11.0	8.5
21	9.5	8.0	10.0	9.0	14.5	13.0	16.5	15.0	13.0	11.0	11.0	8.5
22	10.0	9.5	11.0	9.0	15.0	13.5	16.0	15.0	13.5	12.0	11.5	8.5
23	10.0	9.0	11.0	10.0	15.0	14.0	15.5	14.5	13.5	13.0	11.5	8.5
24	9.0	8.0	11.0	10.0	15.0	14.0	15.5	14.5	14.0	13.0	11.5	8.5
25	9.0	8.0	13.0	11.5	15.0	14.0	16.0	14.5	14.0	13.0	11.0	8.5
26	9.0	8.0	13.0	11.5	14.0	12.0	16.0	15.0	14.0	13.5	10.5	8.5
27	8.5	8.0	13.0	11.5	14.5	13.5	16.0	15.0	14.5	13.5	9.5	7.5
28	10.0	8.0	12.0	11.0	15.5	14.0	16.0	15.0	14.5	13.5	9.5	6.5
29	10.0	9.0	11.0	10.0	15.5	14.5	16.5	15.5	14.0	13.0	9.5	7.0
30	10.5	9.0	11.0	9.5	16.5	15.0	16.5	15.5	14.0	13.0	9.5	7.0
31	---	---	11.5	10.0	---	---	16.5	15.5	14.0	13.0	---	---
MONTH	10.5	5.5	13.0	7.0	16.5	9.5	16.5	13.0	16.5	11.0	14.5	6.5

14337800 ELK CREEK NEAR CASCADE GORGE, OREG.

LOCATION.--Lat 42°46'25", long 122°40'15", in NW¼ sec.23, T.32 S., R.1 E., Jackson County, temperature recorder at gaging station on right bank 0.1 mi (0.2 km) downstream from Sugarpine Creek, 6.5 mi (10.5 km) northwest of Cascade Gorge, and at mile 10.7 (17.2 km).

DRAINAGE AREA.--78.8 mi² (204.1 km²).

PERIOD OF RECORD.--Water temperatures: July 1973 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 26.5°C July 29-31, Aug. 2, 3; minimum recorded, 1.5°C Jan. 21.

Period of record:

Water temperatures: Maximum recorded, 28.5°C July 29, 30, 1973; minimum recorded, 1.5°C Jan. 21, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	9.5	9.0	6.0	---	---	---	---	4.0	3.5	5.5	5.0
2	13.5	7.5	7.0	5.0	---	---	---	---	4.0	3.5	5.0	5.0
3	14.5	7.5	7.0	4.5	---	---	---	---	4.0	3.5	5.5	5.0
4	14.0	7.5	7.0	3.5	---	---	---	---	4.0	4.0	5.5	5.0
5	13.0	8.5	7.0	3.5	---	---	---	---	4.0	3.5	5.5	5.0
6	13.0	10.5	---	---	---	---	---	---	4.0	3.5	5.5	5.0
7	12.5	10.0	---	---	---	---	---	---	4.5	3.5	5.5	5.0
8	12.0	8.0	---	---	---	---	---	---	4.5	4.0	5.5	4.5
9	13.0	7.5	---	---	---	---	---	---	5.0	4.0	6.0	5.0
10	12.0	7.5	---	---	---	---	---	---	5.0	4.0	6.0	5.0
11	13.0	8.5	---	---	---	---	---	---	5.0	4.0	5.5	5.5
12	15.0	10.5	---	---	---	---	---	---	4.5	4.5	5.5	5.5
13	14.5	9.0	---	---	---	---	---	---	5.0	4.0	5.5	5.5
14	14.0	9.5	---	---	---	---	---	---	5.0	4.5	5.5	5.5
15	13.5	8.5	---	---	---	---	---	---	5.5	4.5	6.0	5.5
16	13.0	8.5	---	---	---	---	---	---	5.0	5.0	6.0	5.5
17	13.5	8.0	---	---	---	---	---	---	5.0	5.0	6.0	5.5
18	14.0	8.5	---	---	---	---	---	---	5.0	4.5	6.0	5.5
19	11.0	8.5	---	---	---	---	2.5	2.0	5.5	5.0	6.5	5.5
20	14.0	11.0	---	---	---	---	2.0	2.0	5.5	5.0	6.5	5.5
21	12.0	10.5	---	---	---	---	2.0	1.5	5.0	5.0	6.5	5.5
22	10.5	10.0	---	---	---	---	2.5	2.0	5.0	5.0	6.5	5.5
23	10.5	9.5	---	---	---	---	2.5	2.5	5.0	4.5	6.5	5.5
24	10.0	8.0	---	---	---	---	2.5	2.5	5.5	5.0	7.0	5.5
25	10.0	7.0	---	---	---	---	3.0	2.5	5.5	5.0	6.5	6.0
26	10.5	7.0	---	---	---	---	3.0	2.5	5.0	5.0	6.5	6.0
27	10.5	6.0	---	---	---	---	3.0	3.0	5.0	5.0	6.5	6.0
28	9.5	7.5	---	---	---	---	3.5	3.0	5.5	5.0	6.0	5.5
29	10.5	7.0	---	---	---	---	3.5	3.0	---	---	6.5	6.0
30	10.0	6.0	---	---	---	---	3.5	3.0	---	---	6.0	6.0
31	10.0	8.0	---	---	---	---	3.5	3.5	---	---	6.0	6.0
MONTH	15.0	6.0	---	---	---	---	---	---	5.5	3.5	7.0	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	8.0	6.5	---	---	21.0	15.0	26.0	17.0	23.5	15.5
2	6.0	6.0	8.0	6.5	---	---	20.5	12.0	26.5	17.0	23.5	15.5
3	6.5	6.0	8.5	6.5	---	---	22.0	13.0	26.5	17.5	24.0	15.0
4	7.0	6.0	10.0	6.5	---	---	21.5	13.5	26.0	18.5	23.0	14.5
5	6.5	6.0	10.0	7.0	---	---	21.5	14.5	22.0	18.5	22.5	13.5
6	6.5	6.0	8.5	7.0	---	---	21.0	13.5	25.0	17.0	23.0	14.0
7	7.0	6.0	8.5	7.0	---	---	18.0	12.5	23.5	14.5	22.5	14.0
8	6.5	6.0	9.5	7.0	---	---	17.5	14.0	23.0	13.5	21.0	13.5
9	7.0	6.0	7.5	7.0	---	---	18.5	12.0	24.0	14.0	20.5	14.5
10	7.0	6.0	8.0	7.0	---	---	17.5	12.5	24.0	15.0	20.5	13.5
11	6.5	6.5	8.5	7.0	---	---	18.0	11.5	24.0	15.0	20.0	11.5
12	7.0	6.0	8.0	7.0	---	---	20.5	11.5	23.0	14.0	19.0	11.5
13	7.5	6.0	7.5	6.5	20.0	13.0	21.5	12.5	22.0	13.0	19.0	11.5
14	7.5	6.0	7.5	6.5	20.5	13.0	22.5	14.0	22.0	12.5	19.0	10.5
15	7.0	6.5	7.0	6.5	17.5	12.5	21.5	15.0	22.0	12.5	19.0	11.0
16	8.0	6.0	7.0	6.5	18.5	12.0	21.5	13.0	22.0	13.5	19.0	11.5
17	7.5	6.5	7.0	6.0	20.5	12.5	20.0	16.0	23.0	14.0	19.5	11.5
18	7.0	6.5	7.5	6.5	21.5	14.0	23.0	15.5	19.0	14.5	20.0	12.0
19	7.0	6.5	7.5	6.5	17.0	14.0	24.5	17.0	18.0	13.0	20.0	12.0
20	7.5	6.5	8.0	6.5	20.0	11.5	24.5	16.0	20.5	11.0	20.0	12.0
21	8.0	6.5	8.0	6.5	21.5	12.5	24.0	16.5	22.0	12.0	20.0	12.5
22	8.0	6.5	9.5	6.5	20.0	13.5	23.0	15.0	22.0	14.0	19.5	12.5
23	7.5	6.5	8.5	7.0	20.5	14.0	24.0	14.5	23.0	14.5	20.0	12.5
24	7.5	6.0	8.5	7.0	21.0	12.5	24.0	15.0	23.0	14.0	19.5	12.5
25	7.5	6.0	---	---	18.5	13.0	25.0	15.0	23.5	14.5	19.0	12.0
26	7.0	6.0	---	---	18.0	10.5	25.0	16.0	25.0	15.0	19.0	11.5
27	7.5	6.5	---	---	20.5	13.0	25.0	17.0	24.5	15.5	17.5	9.5
28	8.5	6.5	---	---	21.0	12.5	26.0	17.0	24.0	15.5	17.5	9.0
29	9.5	6.5	---	---	22.5	14.0	26.5	18.0	24.5	16.0	18.0	9.5
30	8.5	6.5	---	---	23.0	16.0	26.5	17.5	24.5	16.0	18.0	9.5
31	---	---	---	---	---	---	26.5	17.5	24.5	16.0	---	---
MONTH	9.5	6.0	---	---	---	---	26.5	11.5	26.5	11.0	24.0	9.0

14338000 ELK CREEK NEAR TRAIL, OREG.

LOCATION.--Lat 42°39'50", long 122°44'50", in SW¼ sec.30, T.33 S., R.1 E., Jackson County, on right bank 3.3 mi (5.3 km) northeast of Trail and at mile 0.4 (0.6 km).

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--Water temperature: June 1973 to September 1974.
Turbidity: January 1973 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 29.5°C July 29, 30; minimum, 0.5°C Jan. 10-12.
Turbidity: Maximum, 470 JTU Jan. 14; minimum, 0 JTU on many days.

Period of record:

Water temperatures: Maximum, 29.5°C July 29, 30, 1974; minimum, 0.5°C Jan. 10-12, 1974.
Turbidity: Maximum, 470 JTU Jan. 14, 1974; minimum, 0 JTU on many days.

REMARKS.--Turbidity maximum values Nov. 5, 6 may have been higher, part of each day only was recorded.

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.0	10.5	9.0	7.0	6.5	---	---	6.0	5.0	6.0	4.5
2	15.0	11.0	9.0	7.0	7.5	6.0	---	---	6.0	5.5	5.5	4.0
3	15.0	10.5	7.5	6.0	7.0	6.0	---	---	6.0	4.0	6.0	4.0
4	15.0	10.5	7.5	7.0	6.0	5.0	3.0	---	6.0	3.5	5.5	4.0
5	14.5	11.0	7.0	5.5	7.0	6.0	2.5	1.5	6.0	4.5	6.0	5.0
6	14.0	12.5	8.5	6.5	7.5	6.5	1.5	1.0	6.0	4.0	5.5	4.5
7	14.0	11.5	8.0	7.5	8.0	7.0	1.0	1.0	5.5	2.0	6.0	4.0
8	13.5	10.5	9.5	8.0	7.5	6.5	1.0	1.0	5.0	2.0	6.5	3.5
9	14.0	10.0	9.5	9.0	6.5	5.5	1.5	1.0	5.5	2.5	7.5	3.5
10	13.5	10.0	9.5	9.0	6.0	5.5	1.0	0.5	6.0	2.5	7.0	4.0
11	14.5	10.5	10.0	9.5	7.0	6.0	0.5	0.5	6.0	3.0	7.0	5.5
12	16.0	12.5	9.5	8.5	6.5	5.5	2.0	0.5	6.0	3.0	6.5	5.5
13	15.5	11.5	8.5	7.0	6.0	5.0	3.0	2.0	6.5	3.0	6.0	4.0
14	15.0	11.5	7.5	7.0	7.0	6.0	5.5	3.5	5.0	3.0	5.5	5.0
15	15.0	11.0	8.5	7.5	7.5	6.5	6.5	5.5	6.5	4.5	8.0	5.5
16	15.0	10.5	8.5	8.0	7.5	6.0	7.5	6.5	6.0	5.0	7.0	6.0
17	15.0	11.0	7.5	7.0	7.5	7.0	7.0	7.0	6.0	4.5	8.5	6.0
18	15.0	11.0	7.5	6.5	7.0	6.5	7.0	6.0	5.5	3.5	8.5	4.5
19	14.0	11.0	6.5	5.0	7.5	6.0	7.0	6.0	6.5	5.0	9.0	4.5
20	15.5	12.5	6.5	6.0	8.0	7.0	6.5	5.0	6.0	5.0	9.0	4.5
21	15.0	13.0	6.0	5.5	7.5	7.0	5.5	4.0	5.5	5.0	9.5	4.5
22	13.0	12.0	6.5	5.5	7.0	6.5	4.5	3.5	6.0	4.5	9.0	4.5
23	12.0	11.5	6.5	5.5	7.0	6.5	5.5	4.0	6.5	4.0	9.5	4.0
24	12.0	11.0	6.5	5.5	7.5	6.5	5.0	4.0	7.5	4.0	10.0	4.5
25	11.0	10.0	6.5	5.5	7.5	6.0	5.0	3.5	7.0	5.5	10.0	6.5
26	11.0	9.5	6.5	6.0	7.0	5.5	5.5	4.5	6.5	5.0	9.0	5.5
27	11.0	8.5	6.5	6.0	7.0	7.0	5.0	4.0	6.0	4.5	8.0	7.0
28	11.0	10.0	7.0	6.5	---	---	4.5	4.0	6.0	5.0	7.5	5.5
29	10.5	9.0	7.5	6.5	---	---	6.0	4.5	---	---	7.0	6.0
30	10.5	8.5	7.5	7.0	---	---	5.5	3.5	---	---	8.5	7.0
31	10.5	9.5	---	---	---	---	6.0	4.0	---	---	7.5	6.5
MONTH	16.5	8.5	10.5	5.0	8.0	5.0	7.5	0.5	7.5	2.0	10.0	3.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	13.5	8.5	19.5	11.5	24.5	18.0	28.0	20.0	27.5	20.0
2	8.0	6.5	13.5	7.0	19.0	12.5	23.5	15.0	29.0	20.0	26.5	20.5
3	9.0	6.5	14.0	7.0	18.5	13.0	25.5	16.5	29.0	20.5	26.5	19.5
4	10.5	6.5	15.0	8.0	16.0	13.0	25.0	17.0	29.0	21.5	25.5	18.5
5	8.5	6.5	16.0	9.0	13.5	11.5	23.5	18.0	24.5	21.5	25.5	18.0
6	8.5	6.0	16.0	10.0	17.5	10.5	23.5	17.0	27.5	19.5	25.5	18.0
7	10.5	5.5	14.5	9.5	17.5	10.0	21.0	15.5	25.5	17.5	24.5	18.0
8	8.5	6.5	16.0	9.5	18.5	10.5	20.0	17.0	25.0	16.5	24.0	17.5
9	9.5	6.0	12.5	8.5	20.0	12.0	22.0	15.0	26.0	17.0	24.0	18.5
10	9.5	6.0	12.5	8.5	21.5	13.5	20.5	16.0	26.5	18.0	24.0	18.0
11	8.0	7.0	14.0	9.0	21.0	15.0	21.5	14.0	26.5	18.0	22.5	16.0
12	10.5	5.0	13.5	9.5	22.5	15.5	24.0	15.0	25.0	17.0	22.0	16.0
13	11.0	4.5	12.0	7.0	23.0	16.5	25.0	16.0	24.0	16.0	22.0	15.5
14	11.0	5.5	12.0	8.5	23.5	16.5	26.0	17.5	24.5	15.5	22.0	15.0
15	9.0	7.0	11.0	7.5	21.0	16.0	25.0	18.0	24.5	16.0	22.0	15.5
16	12.0	5.5	10.0	7.0	21.0	15.0	24.0	16.0	24.5	16.5	22.5	15.5
17	11.5	6.5	9.5	6.5	23.5	15.5	24.0	18.5	25.0	17.0	22.5	16.0
18	10.0	7.5	11.5	7.0	24.5	17.5	27.0	18.5	21.5	16.0	23.0	16.0
19	9.0	6.0	10.5	7.5	21.5	17.0	27.5	19.0	20.5	14.0	23.0	16.5
20	11.5	7.0	13.5	8.0	22.0	14.0	27.5	19.5	---	---	23.0	16.0
21	13.0	6.0	12.5	8.0	24.0	16.0	27.5	19.5	---	---	23.0	16.5
22	12.5	8.5	15.5	8.5	23.5	17.0	26.0	18.5	---	---	22.5	17.0
23	10.5	7.0	14.0	10.0	23.5	17.0	27.0	18.0	26.5	---	22.5	16.5
24	10.5	6.5	17.0	10.0	24.0	16.0	27.0	18.0	27.0	18.5	22.0	16.5
25	11.5	6.0	19.5	12.5	20.5	17.0	27.5	18.0	27.0	19.0	21.5	16.0
26	9.0	6.0	19.0	12.5	21.0	13.5	27.5	19.0	27.5	19.5	20.5	15.5
27	11.0	6.5	18.5	12.0	24.0	16.0	28.0	20.0	27.0	20.0	19.5	13.5
28	14.5	7.5	15.5	10.5	24.5	16.5	28.5	20.0	27.5	20.0	19.0	13.5
29	15.0	8.0	16.5	10.0	26.5	17.5	29.5	21.5	27.5	20.5	19.0	14.0
30	15.0	9.0	16.5	9.0	27.0	19.5	29.5	20.5	27.5	21.0	19.5	13.5
31	---	---	18.0	10.0	---	---	29.0	20.5	28.0	20.5	---	---
MONTH	15.0	4.5	19.5	6.5	27.0	10.0	29.5	14.0	29.0	14.0	27.5	13.5

14338000 ELK CREEK NEAR TRAIL, OREG.—Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2	1	1	30	2	10	40	20	30	15	7	7
2	2	1	1	10	5	7	20	15	15	7	6	6
3	2	1	1	6	3	3	20	5	---	6	6	6
4	2	1	1	3	2	2	15	9	10	5	3	4
5	2	1	1	100	2	---	9	8	8	3	3	3
6	2	1	1	220	35	---	8	7	7	3	3	3
7	2	1	1	35	15	20	70	8	35	3	3	3
8	2	1	1	130	15	---	25	15	20	3	3	3
9	2	1	1	30	15	20	15	9	10	3	2	2
10	2	1	1	20	10	15	45	7	10	3	2	2
11	2	1	1	35	15	20	10	7	8	2	2	2
12	2	1	2	---	---	---	40	7	10	15	2	5
13	2	1	2	30	15	20	40	10	20	260	20	110
14	2	2	2	35	15	25	20	15	15	470	35	160
15	3	2	2	30	15	20	15	10	10	400	70	170
16	2	2	2	15	10	15	10	10	10	430	55	100
17	2	2	2	10	8	9	55	10	25	---	---	---
18	2	2	2	8	6	7	15	10	15	---	---	---
19	2	2	2	7	6	6	10	9	9	---	---	---
20	2	2	2	15	0	9	15	9	10	---	---	---
21	55	0	10	15	10	10	20	10	15	---	---	---
22	50	20	30	10	10	10	10	8	9	---	---	---
23	35	10	20	20	8	10	9	7	7	---	---	---
24	25	10	15	---	---	---	10	6	7	---	---	---
25	15	2	5	---	---	---	15	7	9	---	---	---
26	7	3	4	---	---	---	7	7	7	---	---	---
27	3	2	2	---	---	---	20	7	10	---	---	---
28	2	2	2	20	20	20	25	15	15	---	---	---
29	10	3	7	55	20	40	45	15	25	---	---	---
30	7	3	4	130	40	60	15	10	10	25	15	20
31	3	2	2	---	---	---	10	8	9	240	20	75
MONTH	55	0	4	220	0	---	70	5	15	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	150	45	70	85	30	45	---	---	---	15	9	10
2	60	20	30	40	20	30	---	---	---	30	10	15
3	20	15	15	20	15	20	---	---	---	10	10	10
4	15	10	15	20	15	15	---	---	---	15	9	10
5	25	15	20	25	15	20	---	---	---	15	9	10
6	20	15	15	40	20	30	---	---	---	20	10	15
7	15	10	15	20	15	15	---	---	---	25	15	20
8	15	10	15	15	10	15	---	---	---	20	10	15
9	20	10	15	15	10	15	15	10	15	20	10	15
10	25	10	15	15	10	15	15	10	10	10	9	10
11	20	10	15	20	15	15	20	10	15	10	7	9
12	20	15	15	70	20	35	25	10	15	9	7	7
13	40	10	15	25	20	20	15	10	10	8	6	7
14	15	10	15	190	25	80	15	10	10	9	5	6
15	35	9	10	140	45	75	10	9	10	---	5	---
16	110	20	45	65	30	45	10	8	9	7	5	6
17	25	15	20	30	20	25	25	9	10	9	6	7
18	110	15	45	25	15	20	60	10	20	7	6	7
19	130	35	65	15	10	15	40	9	15	7	6	6
20	30	20	25	15	10	10	90	10	20	7	5	6
21	20	15	20	10	9	9	15	10	10	6	5	5
22	20	15	15	20	9	10	10	9	10	5	5	5
23	15	10	15	10	8	9	80	10	15	5	4	5
24	15	10	10	10	8	9	15	10	15	5	4	4
25	30	10	15	10	9	10	20	10	15	---	---	---
26	40	15	25	15	8	10	30	9	15	---	---	---
27	30	15	20	85	10	20	20	8	10	---	---	---
28	150	20	55	70	25	40	9	7	8	---	---	---
29	---	---	---	40	25	30	8	7	7	---	---	---
30	---	---	---	---	---	---	20	8	10	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	150	9	25	190	8	25	---	---	---	---	---	---

14338000 ELK CREEK NEAR TRAIL, OREG.—Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2	2	2	2	2	2	3	1	1
2	---	---	---	2	2	2	3	2	2	1	1	1
3	---	---	---	2	2	2	3	2	2	1	1	1
4	---	---	---	2	2	2	2	2	2	1	1	1
5	---	---	---	2	2	2	2	2	2	1	1	1
6	---	---	---	2	2	2	3	2	2	1	1	1
7	---	---	---	2	2	2	3	2	2	1	1	1
8	---	---	---	2	2	2	3	2	2	2	1	1
9	---	---	---	2	2	2	3	2	2	1	1	1
10	4	1	3	2	2	2	3	2	3	2	1	1
11	3	3	3	2	2	2	3	2	3	3	1	1
12	6	3	4	2	2	2	3	2	2	2	1	1
13	5	3	4	2	2	2	3	2	3	25	1	2
14	4	3	3	3	2	2	3	3	3	2	1	1
15	3	3	3	2	2	2	3	3	3	2	1	1
16	4	3	3	3	2	2	---	---	---	3	1	2
17	3	3	3	3	2	2	---	---	---	2	2	2
18	4	3	3	2	2	2	---	---	---	2	1	2
19	3	3	3	2	2	2	---	---	---	2	1	2
20	3	3	3	3	2	2	---	---	---	2	2	2
21	3	2	3	2	2	2	---	---	---	3	2	2
22	3	2	3	2	2	2	---	---	---	2	2	2
23	3	3	3	2	2	2	---	---	---	3	2	2
24	3	2	3	3	2	2	---	---	---	3	2	2
25	3	2	3	3	2	2	---	---	---	3	2	2
26	3	2	3	2	2	2	---	---	---	3	2	2
27	2	2	2	2	2	2	---	---	---	4	1	2
28	3	2	2	2	2	2	2	1	1	3	1	1
29	2	2	2	2	2	2	1	1	1	8	1	3
30	2	2	2	30	2	3	3	1	1	6	1	2
31	---	---	---	7	1	2	2	1	1	---	---	---
MONTH	---	---	---	30	1	2	---	---	---	25	1	1

14339000 ROGUE RIVER AT DODGE BRIDGE, NEAR EAGLE POINT, OREG.

LOCATION.--Lat 42°31'30", long 122°50'30", in SE¼ sec.17, T.35 S., R.1 W., Jackson County, on right bank 50 ft (15 m) upstream from Dodge Bridge, 0.7 mi (1.1 km) downstream from Reese Creek, 4.3 mi (6.9 km) northwest of Eagle Point, and at mile 138.61 (223.02 km).

DRAINAGE AREA.--1,215 mi² (3,147 km²).

PERIOD OF RECORD.--Water temperatures: August 1973 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 19.0°C July 29-31, Aug. 2, 3; minimum, freezing point Jan. 6-8, 10, 11.

Period of record:

Water temperatures: Maximum, 19.0°C Aug. 13-15, 1973, July 29-31, Aug. 2, 3, 1974; minimum, freezing point Jan. 6-8, 10, 11, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.5	6.5	6.5	6.0	4.0	2.5	5.5	5.0	5.0	3.5
2	---	---	6.5	5.0	6.0	5.5	2.0	1.5	5.0	4.0	4.5	3.5
3	---	---	5.5	4.0	6.0	5.0	2.5	1.5	4.5	3.5	5.0	3.5
4	---	---	5.5	4.5	5.5	4.5	1.5	1.0	5.5	4.5	5.0	4.0
5	---	---	5.5	4.0	6.0	5.0	1.5	1.0	5.0	4.0	5.5	4.5
6	---	---	6.5	5.5	6.0	5.5	1.0	0.0	4.0	3.0	5.5	4.5
7	---	---	6.0	5.5	7.0	6.0	1.0	0.0	4.5	3.0	5.0	4.0
8	---	---	7.5	6.5	6.5	5.5	1.5	0.0	5.0	3.0	5.0	3.0
9	---	---	8.0	7.0	5.5	4.5	1.5	0.5	5.0	3.5	5.5	3.5
10	---	---	8.0	7.5	5.0	4.5	1.5	0.0	5.0	4.0	6.0	4.5
11	---	---	8.0	7.5	6.0	4.5	2.0	0.0	5.5	4.0	6.0	5.5
12	---	---	8.0	7.0	5.5	5.0	3.0	2.0	5.0	4.5	6.0	5.5
13	---	---	7.0	6.0	5.0	4.0	4.0	1.5	5.0	4.0	5.5	4.5
14	---	---	6.0	5.5	5.5	4.5	5.0	3.5	6.0	4.5	6.0	5.5
15	---	---	7.0	6.0	6.0	5.0	6.0	5.5	5.5	5.0	7.5	5.5
16	---	---	7.0	6.5	6.0	5.0	6.0	5.5	5.5	5.0	7.0	6.0
17	---	---	6.5	6.0	6.5	6.0	5.5	5.0	5.5	4.5	8.0	6.5
18	10.0	---	6.0	5.0	6.0	5.0	6.5	5.5	5.0	4.5	7.0	5.5
19	9.0	7.5	5.0	4.5	5.5	4.5	6.0	5.5	5.5	4.5	7.5	5.5
20	10.0	8.0	5.0	4.5	6.5	5.5	5.5	4.5	5.0	4.0	7.5	5.5
21	9.5	9.0	5.0	4.5	6.0	5.5	4.5	3.5	5.0	4.0	7.5	5.5
22	8.5	8.0	5.0	4.5	5.5	5.0	5.0	4.0	5.0	3.5	7.5	5.5
23	8.5	7.5	5.0	4.5	5.5	5.0	5.0	4.0	5.0	3.5	7.5	5.5
24	8.0	7.0	5.0	4.5	6.0	5.5	5.0	4.5	6.0	4.0	8.0	6.0
25	7.0	6.0	5.0	5.0	6.0	5.0	5.5	4.5	6.0	5.5	8.5	7.0
26	7.0	6.0	5.0	4.5	5.0	4.5	5.0	4.5	6.0	5.0	8.0	6.5
27	7.5	5.5	5.5	5.0	5.5	5.0	4.5	4.5	5.0	4.0	7.5	6.5
28	7.5	6.0	6.5	5.5	5.5	5.5	5.5	4.5	5.0	4.0	7.0	6.0
29	7.5	6.0	6.5	6.0	6.0	5.5	5.0	4.0	---	---	7.5	6.0
30	7.5	5.5	6.5	6.5	5.5	4.5	5.5	4.5	---	---	7.5	6.5
31	7.5	6.0	---	---	5.0	4.5	6.0	5.0	---	---	6.5	5.5
MONTH	---	---	8.0	4.0	7.0	4.0	6.5	0.0	6.0	3.0	8.5	3.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.0	10.5	9.0	13.0	9.5	15.5	13.0	18.5	15.0	17.0	14.0
2	7.0	5.5	10.0	7.5	12.5	10.0	14.5	11.0	19.0	15.0	17.0	13.5
3	7.0	5.5	10.5	7.5	12.0	10.0	15.5	11.5	19.0	15.0	16.5	13.5
4	8.0	5.5	11.0	8.0	11.0	9.0	15.5	12.0	18.5	15.5	16.0	13.0
5	7.5	7.0	11.5	9.0	9.0	8.0	15.5	12.5	17.5	15.5	15.5	12.5
6	7.5	6.0	11.5	9.5	10.5	7.0	14.5	12.0	17.5	13.5	15.5	12.0
7	8.5	6.0	10.5	9.0	10.5	8.0	13.0	11.5	17.0	13.5	15.5	12.0
8	8.0	7.0	10.5	9.0	11.5	8.5	13.0	11.5	16.5	12.5	15.0	12.0
9	7.5	6.5	10.0	8.5	12.5	9.5	14.0	10.0	16.5	13.0	14.5	12.0
10	8.0	6.0	9.5	7.5	13.5	10.0	13.0	11.0	17.0	13.5	15.0	12.0
11	7.5	7.0	10.0	8.0	13.0	10.5	14.0	10.0	17.5	13.5	14.0	11.0
12	8.5	5.5	10.0	8.0	13.0	10.5	14.5	10.5	16.5	13.0	13.5	10.5
13	8.5	6.0	8.5	7.0	13.0	10.5	15.5	11.5	15.5	12.0	13.5	10.0
14	8.5	6.5	9.5	7.0	13.5	11.0	16.5	12.5	15.5	11.5	13.0	9.5
15	8.5	7.0	8.5	7.0	13.0	11.0	16.0	13.0	15.5	11.5	13.5	10.0
16	9.0	6.0	8.0	6.0	12.5	10.0	15.5	12.0	15.5	12.0	13.5	10.0
17	9.0	7.0	7.5	5.5	14.0	10.5	15.5	13.0	16.5	12.5	14.0	10.5
18	9.0	7.0	8.0	6.0	14.5	11.5	16.5	13.0	14.5	12.5	14.0	10.5
19	7.5	6.0	8.5	6.5	13.0	10.5	17.5	13.5	13.0	11.5	14.0	10.5
20	9.0	6.5	10.5	7.0	12.5	9.0	18.0	14.5	14.5	10.0	14.0	10.5
21	10.0	7.0	10.0	7.5	14.5	10.5	18.0	14.5	14.5	10.5	14.0	10.5
22	10.5	8.5	11.0	8.0	15.0	11.5	17.0	14.0	16.0	12.0	14.0	11.0
23	9.0	7.0	11.0	9.0	15.0	11.5	17.0	13.5	16.5	13.0	14.0	11.0
24	8.5	6.5	12.0	8.5	15.0	11.5	17.5	13.5	16.5	13.0	14.0	10.0
25	9.0	6.0	13.5	10.0	13.5	11.5	18.0	14.0	16.5	13.0	13.5	10.5
26	7.5	6.0	13.0	10.5	12.5	9.5	18.0	14.0	17.0	13.5	13.0	10.0
27	8.0	6.5	12.0	10.0	14.5	10.0	18.0	14.5	17.0	13.5	12.5	9.0
28	10.5	6.5	11.0	9.0	15.0	11.5	18.5	14.5	17.0	13.5	11.5	8.5
29	11.0	8.5	11.0	8.0	16.0	12.0	19.0	15.0	17.5	14.0	11.5	8.5
30	11.5	9.0	11.0	8.0	16.5	13.0	19.0	15.5	17.0	14.0	11.5	8.5
31	---	---	12.0	8.5	---	---	19.0	15.0	17.5	14.0	---	---
MONTH	11.5	5.5	13.5	5.5	16.5	7.0	19.0	10.0	19.0	10.0	17.0	8.5

14359000 ROGUE RIVER AT RAYGOLD, NEAR CENTRAL POINT, OREG.

LOCATION.--Lat 42°26'15", long 122°59'10", in SW¼ sec.18, T.36 S., R.2 W., Jackson County, on right bank at Raygold, 0.1 mi (0.2 km) downstream from Gold Ray Dam, 1.0 mi (1.6 km) downstream from Bear Creek, 5.6 mi (9.0 km) northwest of Central Point, and at mile 125.8 (202.4 km).

DRAINAGE AREA.--2,053 mi² (5,317 km²).

PERIOD OF RECORD.--Water temperatures: August 1973 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum, 21.0°C July 29-31, Aug. 3; minimum, freezing point Jan. 7.

Period of record:

Water temperatures: Maximum recorded, 21.5°C Aug. 15, 16, 1973; minimum, freezing point Jan. 7, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	9.5	8.5	6.5	6.0	5.0	3.0	6.5	5.5	5.5	4.0
2	13.5	12.0	8.5	7.0	6.0	5.5	3.0	2.0	5.5	4.5	5.5	4.5
3	12.5	11.0	7.5	6.5	6.0	5.0	3.0	2.0	5.0	4.0	5.0	3.5
4	12.0	10.5	7.0	6.0	5.5	4.5	2.5	1.5	5.5	4.5	5.5	4.0
5	12.0	11.0	7.0	6.0	5.5	4.5	2.0	1.5	5.5	4.0	6.0	5.0
6	11.5	11.0	7.5	6.5	6.5	5.5	1.5	0.5	4.5	3.5	6.0	5.0
7	12.0	10.5	7.5	7.0	7.5	6.5	1.5	0.0	4.5	3.0	5.0	4.0
8	12.0	10.5	8.5	7.0	7.5	6.0	1.5	0.5	5.5	3.5	5.5	3.0
9	11.0	10.0	9.0	8.5	6.0	5.0	2.0	1.0	5.5	4.0	5.5	3.5
10	11.5	10.0	9.0	8.5	5.5	4.5	1.5	0.5	5.5	4.0	6.0	4.5
11	11.5	10.5	9.5	8.5	6.0	4.5	1.5	0.5	6.0	4.5	6.5	6.0
12	13.0	11.0	9.0	8.0	6.0	5.5	3.5	1.5	5.5	5.0	6.5	6.0
13	13.0	11.5	8.0	7.0	5.5	4.5	4.0	2.5	5.5	4.0	6.0	5.0
14	13.0	11.5	7.0	6.5	6.0	5.0	6.0	4.0	6.5	5.0	6.5	6.0
15	12.5	11.5	7.5	6.5	6.5	5.5	6.5	6.0	6.0	5.5	8.0	6.0
16	12.5	11.0	7.5	7.5	6.5	5.5	6.5	6.0	6.5	5.5	8.0	7.0
17	12.0	11.0	7.5	6.5	7.0	6.5	6.5	5.5	6.0	5.0	9.0	7.0
18	12.0	11.0	6.5	6.0	6.5	6.0	7.0	6.0	5.5	5.0	8.0	6.0
19	12.0	10.5	6.0	4.5	6.0	5.0	7.0	6.5	6.0	5.0	8.0	6.0
20	12.5	11.0	5.5	5.0	6.5	6.0	6.0	5.0	5.5	4.5	8.0	6.5
21	12.5	12.0	5.5	5.0	7.0	6.5	5.0	4.0	5.5	5.0	8.0	6.0
22	11.5	11.0	5.5	5.0	6.0	5.5	5.5	4.0	5.0	3.5	8.5	6.0
23	11.0	10.0	5.0	5.0	6.0	5.5	5.5	4.5	5.5	4.0	8.5	6.0
24	10.5	9.5	5.5	5.0	6.5	6.0	5.0	4.5	6.0	4.0	8.5	6.5
25	9.5	8.5	5.5	5.0	6.5	5.5	5.5	5.0	7.0	6.0	9.5	7.5
26	8.5	8.0	5.5	5.0	5.5	5.0	6.0	5.0	6.5	5.5	8.5	7.0
27	9.0	7.5	6.0	5.0	6.5	5.5	5.5	5.0	5.5	4.5	8.0	7.0
28	9.0	8.5	6.5	6.0	6.5	6.0	6.0	5.0	5.5	4.0	7.5	6.5
29	9.0	7.5	7.0	6.5	6.5	6.0	5.5	4.5	---	---	8.0	6.5
30	9.0	7.5	7.0	6.5	6.0	5.0	6.0	4.5	---	---	8.0	7.0
31	9.5	8.0	---	---	5.5	5.0	6.5	5.5	---	---	7.0	5.5
MONTH	14.5	7.5	9.5	4.5	7.5	4.5	7.0	0.0	7.0	3.0	9.5	3.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	12.0	10.0	13.5	10.0	17.5	15.0	20.5	18.0	19.0	17.5
2	7.5	6.0	11.5	8.5	13.5	10.5	16.5	13.5	20.5	18.0	19.0	17.0
3	8.0	6.0	11.5	8.5	13.0	10.5	17.0	13.5	21.0	18.0	18.5	16.5
4	8.5	6.0	12.5	9.0	12.0	10.0	17.5	14.5	20.5	18.5	18.5	16.5
5	8.5	7.5	13.0	9.5	10.0	8.5	17.5	14.5	20.5	18.0	18.0	15.5
6	8.5	6.5	13.0	10.5	10.5	7.5	16.5	14.5	19.5	16.5	17.5	15.5
7	9.0	6.5	12.5	10.0	11.5	8.0	15.5	14.0	19.0	16.5	17.5	15.5
8	9.0	8.0	12.5	10.0	12.0	8.5	14.5	13.0	18.0	15.5	17.0	14.5
9	8.5	7.0	11.5	9.0	13.5	9.5	15.5	12.5	18.5	15.5	17.0	15.0
10	9.0	6.5	11.5	8.0	14.0	10.0	15.5	13.0	19.0	16.0	17.0	15.0
11	8.5	7.5	12.0	9.0	13.5	11.0	15.5	12.5	19.0	16.5	16.5	14.0
12	9.0	6.0	11.0	9.0	14.0	10.5	16.5	12.5	18.5	16.0	16.0	13.5
13	9.5	6.5	10.0	7.5	---	---	17.5	14.0	17.5	15.0	15.5	13.0
14	10.0	7.0	10.5	7.5	---	---	18.0	15.0	17.0	14.5	15.0	12.5
15	9.0	8.0	10.0	8.0	---	---	18.0	15.0	17.5	14.5	15.0	13.0
16	10.0	6.5	9.0	7.0	---	---	17.0	15.0	17.5	15.0	15.5	13.0
17	10.0	8.0	8.5	6.5	---	---	18.0	15.0	18.0	15.5	15.5	13.5
18	9.5	8.0	9.0	6.5	---	---	19.0	15.0	17.5	15.5	16.0	13.5
19	8.5	6.5	9.0	7.0	---	---	19.5	16.0	15.5	14.0	16.0	14.0
20	10.0	7.5	11.5	7.5	---	---	20.0	17.0	16.0	13.0	16.0	14.0
21	11.5	8.0	10.5	8.5	---	---	20.0	17.0	16.5	13.5	15.5	13.5
22	11.5	9.0	12.0	8.5	---	---	19.5	16.5	17.5	14.5	15.5	14.0
23	10.0	8.0	12.0	10.0	---	---	19.0	16.0	18.5	16.0	16.0	13.5
24	9.5	7.5	13.0	9.5	16.5	---	19.5	16.0	18.5	15.5	15.5	13.5
25	10.0	6.5	14.5	11.0	15.5	13.5	20.0	16.5	18.5	16.0	15.5	13.5
26	9.0	7.0	14.5	11.5	14.5	11.5	20.0	17.0	19.0	16.5	15.0	13.5
27	9.5	7.0	13.5	11.0	16.0	12.0	19.5	17.5	19.0	17.0	13.5	---
28	11.5	7.0	12.0	9.5	17.0	13.5	20.5	17.0	19.0	17.0	---	---
29	12.5	9.5	12.0	8.5	18.0	14.5	21.0	18.0	19.0	17.0	---	---
30	13.0	10.0	12.0	8.5	18.5	15.5	21.0	18.0	19.5	17.5	---	---
31	---	---	13.0	9.0	---	---	21.0	18.0	19.5	17.5	---	---
MONTH	13.0	6.0	14.5	6.5	---	---	21.0	12.5	21.0	13.0	19.0	12.5

14361500 ROGUE RIVER AT GRANTS PASS, OREG.

LOCATION.--Lat 42°25'50", long 123°19'00", in NW¼ sec.20, T.36 S., R.5 W., Josephine County, on right bank at city of Grants Pass filter plant, 0.6 mi (1.0 km) upstream from bridge on State Highway 99 at Grants Pass, and at mile 101.8 (163.8 km).

DRAINAGE AREA.--2,459 mi² (6,369 km²).

PERIOD OF RECORD.--Water temperatures: August 1973 to September 1974.

EXTREMES.--1973-1974:

Water temperatures: Maximum, 21.0°C July 30 to Aug. 1, Aug. 3-5, minimum, 0.5°C Jan. 7,8,11.

Period of record:

Water temperatures: Maximum recorded, 23.0°C Aug. 15, 1973; minimum, 0.5°C Jan. 7,8,11, 1974.

TEMPERATURE (DEG. C) OF WATER * WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	8.5	7.5	7.0	5.5	4.0	6.5	6.0	5.5	4.5
2	---	---	9.0	8.0	7.0	6.5	4.0	2.5	6.0	5.0	5.5	5.0
3	---	---	8.0	7.0	6.5	6.0	2.5	2.0	5.5	4.5	5.5	4.5
4	---	---	7.5	6.0	6.5	5.5	2.5	2.0	5.5	4.5	5.5	5.0
5	---	---	6.5	6.0	6.0	5.5	2.0	1.5	5.5	5.0	6.5	5.5
6	---	---	7.5	6.0	7.0	6.0	1.5	1.0	5.0	4.0	6.5	5.5
7	---	---	7.5	7.0	8.0	7.0	1.0	0.5	4.5	4.0	5.5	5.0
8	---	---	9.0	7.0	8.0	7.0	1.0	0.5	4.5	4.0	5.0	4.5
9	---	---	9.5	9.0	7.0	6.0	1.0	1.0	5.5	4.5	5.5	5.0
10	---	---	9.5	9.0	6.0	5.5	1.0	1.0	5.5	5.0	6.0	5.5
11	---	---	10.0	9.0	6.5	5.5	1.0	0.5	5.5	5.0	7.0	6.0
12	---	---	10.0	9.0	6.5	6.5	3.0	1.0	5.5	5.5	7.0	6.5
13	---	---	9.0	7.5	6.5	5.5	4.0	3.0	5.5	5.0	6.5	6.0
14	---	---	7.5	7.0	6.5	6.0	6.0	4.0	6.0	5.5	7.0	6.5
15	---	---	8.0	7.5	6.5	6.5	7.0	6.0	6.5	6.0	8.0	7.0
16	---	---	8.5	8.0	6.5	6.5	7.0	6.5	6.5	6.0	8.5	8.0
17	---	---	8.0	7.0	7.5	6.5	7.0	6.0	6.5	5.5	9.0	8.0
18	---	---	7.0	6.5	7.5	7.0	7.5	6.5	6.0	5.5	9.0	7.5
19	---	---	6.5	5.5	6.5	6.0	7.5	6.5	6.0	5.5	8.0	7.0
20	---	---	6.0	5.5	7.0	6.5	6.5	5.5	6.0	5.0	8.5	7.5
21	---	---	6.0	6.0	7.0	7.0	5.5	4.5	5.5	5.5	8.5	7.5
22	---	---	6.0	6.0	7.0	6.5	5.5	4.5	5.5	4.5	8.5	7.5
23	11.0	10.5	6.0	5.5	6.5	6.5	5.5	5.0	5.5	5.0	8.5	7.5
24	10.0	9.5	6.0	5.5	7.0	6.5	5.0	5.0	6.0	5.0	9.0	8.0
25	9.5	9.0	6.0	6.0	7.0	6.0	5.5	5.0	7.0	6.0	9.5	9.0
26	9.0	8.0	6.0	6.0	6.0	5.5	6.0	5.5	7.0	6.0	9.5	8.5
27	9.0	7.5	6.5	6.0	6.5	6.0	6.0	5.5	6.0	5.5	9.0	8.0
28	9.5	8.0	7.5	6.5	6.5	6.5	5.5	5.0	6.0	5.0	8.5	7.5
29	9.0	8.0	7.5	6.5	6.5	6.5	5.5	5.0	---	---	8.5	7.5
30	9.0	7.5	7.5	7.5	6.5	5.5	5.5	4.5	---	---	8.5	8.0
31	9.5	7.5	---	---	5.5	5.5	6.5	5.5	---	---	8.0	6.5
MONTH	---	---	10.0	5.5	8.0	5.5	7.5	0.5	7.0	4.0	9.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	13.0	12.0	14.0	12.5	18.5	17.5	21.0	20.0	20.5	19.0
2	8.5	7.0	12.0	11.0	14.5	14.0	17.5	16.0	20.5	20.5	20.0	18.5
3	8.0	7.0	11.5	11.0	14.5	13.5	17.5	15.5	21.0	20.5	19.5	18.0
4	9.0	7.5	12.0	11.5	14.0	12.0	18.0	16.0	21.0	21.0	19.0	17.5
5	9.5	8.5	13.0	12.0	12.0	10.5	18.5	17.0	21.0	20.0	19.0	17.5
6	9.0	8.0	13.5	13.0	11.0	10.0	18.0	16.5	20.0	18.5	18.5	17.0
7	9.5	7.5	13.5	12.5	12.0	11.0	17.0	15.5	19.0	18.0	18.0	16.5
8	9.5	8.5	13.0	12.0	12.5	12.0	15.5	14.5	19.0	17.5	17.5	16.0
9	8.5	8.0	13.0	11.5	13.5	12.5	14.5	14.0	18.5	17.5	17.5	16.0
10	9.0	8.0	11.5	10.0	14.5	13.5	16.0	14.0	19.0	17.5	17.5	16.0
11	9.5	8.5	12.0	11.0	15.0	14.5	16.0	14.5	19.5	18.0	17.0	15.5
12	9.0	7.5	12.0	11.0	15.0	14.5	16.0	14.5	19.0	17.5	16.5	15.0
13	9.5	8.5	11.0	10.0	15.0	15.0	17.5	15.0	18.5	17.0	16.0	14.5
14	10.0	9.0	10.0	10.0	15.5	15.0	18.0	16.0	17.5	16.5	15.5	14.0
15	10.0	9.5	10.5	10.0	15.5	14.5	18.5	17.0	17.5	16.5	15.5	14.0
16	9.5	8.5	10.0	9.0	15.0	13.0	18.0	17.0	18.5	16.5	15.5	14.0
17	10.5	9.5	9.5	8.0	14.5	13.0	18.0	17.0	17.5	16.5	16.0	14.5
18	10.5	9.0	9.0	8.0	16.0	14.5	19.0	17.5	17.0	16.0	16.0	14.5
19	9.0	8.0	9.5	9.0	16.5	16.0	19.5	18.0	16.5	15.5	16.5	15.0
20	10.0	8.5	11.0	9.0	14.5	13.5	20.0	19.0	16.0	14.5	16.5	15.0
21	11.0	9.5	11.5	11.0	15.0	13.5	20.5	19.5	16.0	14.5	16.5	15.0
22	11.5	11.0	12.0	10.5	16.5	15.0	20.0	19.0	17.0	15.0	16.5	15.0
23	11.5	9.5	13.0	12.0	16.5	15.5	19.5	19.0	18.0	16.0	16.5	15.0
24	10.0	9.0	13.0	12.0	16.5	15.5	19.5	18.5	18.5	17.0	16.5	15.0
25	9.5	8.5	15.0	13.0	16.0	15.5	19.5	18.5	18.5	17.5	16.5	15.0
26	9.5	9.0	15.5	15.0	15.5	14.5	20.0	19.0	19.0	17.5	16.0	14.5
27	9.5	8.5	15.0	14.0	15.5	14.0	20.0	19.5	19.5	18.0	15.5	14.0
28	10.5	9.5	14.0	12.5	17.0	15.0	20.5	19.5	20.0	18.5	14.5	13.0
29	12.0	10.5	12.5	12.0	18.0	16.0	20.5	20.0	20.0	18.5	14.0	13.0
30	13.0	12.0	12.5	12.0	19.0	17.0	21.0	20.5	20.0	18.5	14.0	12.5
31	---	---	13.0	12.0	---	---	21.0	20.5	20.5	19.0	---	---
MONTH	13.0	7.0	15.5	8.0	19.0	10.0	21.0	14.0	21.0	14.5	20.5	12.5

14362000 APPLEGATE RIVER NEAR COPPER, OREG.

LOCATION.--Lat 42°03'30", long 123°06'50", in SE¼ sec.25, T.40 S., R.4 W., Jackson County, on right bank 0.2 mi (0.3 km) downstream from French Gulch, 1.2 mi (1.9 km) downstream from Squaw Creek, 2.6 mi (4.2 km) northeast of Copper, and at mile 46.3 (74.5 km).

DRAINAGE AREA.--223 mi² (578 km²).

PERIOD OF RECORD.--Turbidity: February 1973 to September 1974.

EXTREMES.--1973-74:

Turbidity: Maximum recorded, 1,000 JTU Jan. 15 (meter inundated), Mar. 30; minimum, 0 JTU on many days.

Period of record:

Turbidity: Maximum recorded, 1,000 JTU Jan. 15, 1974 (meter inundated), Mar. 30, 1974; minimum, 0 JTU on many days.

REMARKS.--Turbidity maximum values Oct. 23 and Nov. 5 may have been higher, meter set on low scale; maximum values Jan. 15 and Mar. 30 may have also been higher, above range of meter.

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2	0	1	2	0	1	---	---	---	1	1	1
2	1	0	0	0	0	0	---	---	---	1	1	1
3	1	0	0	0	0	0	---	---	---	1	1	2
4	60	0	15	6	0	1	---	---	---	2	1	1
5	2	0	1	100	4	60	---	---	---	2	1	1
6	2	0	1	---	---	---	---	---	---	1	1	1
7	2	0	1	---	---	---	---	---	---	2	1	1
8	1	0	0	---	---	---	---	---	---	2	1	1
9	1	0	0	---	---	---	---	---	---	1	1	1
10	2	0	1	---	---	---	---	---	---	2	1	1
11	2	0	1	---	---	---	---	---	---	2	1	1
12	3	1	1	---	---	---	---	---	---	30	1	7
13	9	0	2	---	---	---	---	---	---	100	1	35
14	2	1	2	---	---	---	---	---	---	900	1	240
15	15	0	4	---	---	---	---	---	---	1000	---	---
16	15	0	2	---	---	---	---	---	---	---	---	---
17	1	0	0	---	---	---	---	---	---	---	---	---
18	1	0	0	---	---	---	10	1	4	---	---	---
19	2	0	0	---	---	---	1	1	1	---	---	---
20	0	0	0	---	---	---	40	1	10	---	---	---
21	70	1	20	---	---	---	50	10	25	---	---	---
22	90	20	45	---	---	---	15	1	4	---	---	---
23	100	70	---	---	---	---	1	1	1	---	---	---
24	9	3	5	---	---	---	10	1	1	---	---	---
25	4	2	2	---	---	---	1	1	1	---	---	---
26	2	1	2	---	---	---	1	1	1	---	---	---
27	2	0	1	---	---	---	1	1	1	---	---	---
28	8	0	2	---	---	---	1	1	1	---	---	---
29	10	0	2	---	---	---	20	1	5	---	---	---
30	1	0	0	---	---	---	1	1	1	---	---	---
31	1	0	0	---	---	---	1	1	1	---	---	---
MONTH	100	0	3	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	420	120	210	40	10	20
2	---	---	---	---	---	---	220	85	140	120	15	30
3	---	---	---	---	---	---	160	55	95	120	10	25
4	---	---	---	---	---	---	120	50	65	25	10	15
5	---	---	---	---	---	---	65	15	50	70	15	25
6	---	---	---	---	---	---	55	25	35	70	25	45
7	---	---	---	---	---	---	30	20	25	170	5	65
8	---	---	---	---	---	---	35	20	25	120	10	70
9	---	---	---	---	---	---	25	15	20	150	30	55
10	---	---	---	---	---	---	20	15	20	60	15	---
11	---	---	---	---	---	---	20	10	15	45	15	30
12	---	---	---	---	---	---	20	10	15	45	15	25
13	---	---	---	---	---	---	15	10	10	30	15	20
14	---	---	---	160	55	80	15	10	10	25	15	20
15	---	---	---	95	10	55	10	9	10	20	10	15
16	490	1	100	270	15	65	10	8	9	15	9	10
17	500	1	120	140	20	60	15	8	10	20	8	10
18	550	15	170	65	30	40	15	10	15	15	7	9
19	280	60	120	35	20	30	25	8	10	9	6	8
20	65	20	35	30	15	20	10	7	9	15	6	8
21	25	15	20	490	15	65	10	7	8	80	6	10
22	30	10	15	500	15	85	15	8	10	15	7	10
23	45	4	10	170	15	35	10	8	9	20	8	10
24	20	6	10	470	15	70	10	7	8	25	7	15
25	25	7	15	550	25	110	10	6	8	65	10	25
26	---	---	---	490	25	70	9	6	7	140	20	40
27	---	---	---	700	25	180	8	5	6	110	3	45
28	---	---	---	850	45	190	7	5	6	70	25	35
29	---	---	---	850	55	420	9	5	7	35	15	25
30	---	---	---	1000	270	---	25	7	10	25	10	20
31	---	---	---	800	160	290	---	---	---	55	15	20
MONTH	---	---	---	---	---	---	420	5	30	170	3	25

TURBIDITY (JTU) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

ROGUE RIVER BASIN

14366000 APPLEGATE RIVER NEAR APPLEGATE, OREG.

LOCATION.--Lat 42°14'30", long 123°08'20", in NE¼ sec.26, T.38 S., R.4 W., Jackson County, on left bank 0.9 mi (1.4 km) downstream from Keeler Creek, 1.8 mi (2.9 km) southeast of Applegate, and at mile 26.7 (43.0 km).

DRAINAGE AREA.--483 mi² (1,251 km²).

PERIOD OF RECORD.--Water temperatures: August 1973 to September 1974.

EXTREMES.--1973-1974:

Water temperatures: Maximum, 28.0°C July 29, 30, Aug. 3, 4; minimum recorded, 1.0°C Jan. 11.

Period of record:

Water temperatures: Maximum 28.0°C July 29, 30, Aug. 3, 4, 1974; minimum recorded, 1.0°C Jan. 11, 1974.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.0	10.5	8.0	6.5	6.0	---	---	6.5	5.5	6.0	5.0
2	14.0	11.0	8.0	6.5	6.0	5.5	---	---	5.5	4.5	6.5	5.5
3	14.0	10.5	8.0	6.0	6.5	5.5	---	---	5.5	3.5	6.0	5.0
4	14.0	11.0	7.5	5.0	6.5	5.5	---	---	6.5	4.5	7.5	5.5
5	14.0	11.5	7.0	6.0	7.0	6.0	---	---	6.0	4.0	7.0	6.0
6	14.5	12.5	7.0	6.5	8.0	6.5	---	---	5.0	2.5	6.5	5.5
7	15.0	12.5	8.0	6.5	8.0	7.0	---	---	5.5	3.0	5.5	4.0
8	13.5	11.5	8.0	7.5	7.0	5.5	---	---	6.0	3.5	6.5	3.5
9	14.0	11.5	8.5	8.0	5.5	4.5	---	---	6.5	3.5	6.0	4.0
10	13.5	11.0	9.0	7.5	6.0	4.5	---	---	6.0	3.5	7.5	5.0
11	14.0	11.5	9.0	8.5	7.0	5.5	3.0	1.0	6.5	4.0	7.0	6.0
12	15.0	12.5	8.5	7.5	6.5	5.0	4.5	3.0	6.0	4.0	7.0	6.0
13	14.5	12.5	7.5	6.5	5.5	5.0	6.0	4.5	5.5	3.5	7.0	5.0
14	14.5	12.5	7.5	6.0	6.5	5.5	7.0	5.5	7.0	5.0	9.0	6.5
15	14.0	12.0	8.5	7.0	7.0	6.0	7.5	7.0	7.5	5.5	9.0	7.0
16	14.0	11.5	8.0	7.5	7.5	6.0	7.5	7.0	7.0	6.0	9.0	7.0
17	14.0	11.5	7.0	6.0	7.5	6.0	7.0	7.0	6.0	5.0	8.0	7.0
18	14.0	12.0	6.0	5.5	6.0	5.0	8.0	7.0	6.5	5.5	8.5	5.5
19	13.5	11.5	5.5	4.5	6.5	5.0	7.5	7.0	6.5	5.5	8.5	6.0
20	15.5	13.0	6.5	5.0	7.5	6.5	7.0	5.5	6.0	4.0	8.5	5.5
21	15.0	12.0	6.0	5.0	6.5	6.0	5.5	5.0	5.5	4.5	8.5	5.5
22	12.0	10.0	6.5	5.0	6.5	6.0	6.0	4.5	5.5	3.5	8.5	5.5
23	10.0	9.0	6.0	5.0	6.5	6.0	6.0	5.0	5.5	3.5	8.5	5.5
24	10.0	8.5	6.0	5.5	7.5	6.0	6.0	4.5	7.0	4.0	8.5	5.5
25	10.5	8.0	6.5	5.5	7.5	2.0	6.5	5.0	8.0	5.5	5.5	5.5
26	10.0	6.5	6.0	5.0	3.0	2.0	6.0	5.0	6.5	5.5	8.0	5.5
27	10.5	7.0	7.5	6.0	3.0	1.5	6.0	5.0	6.0	4.5	8.0	7.0
28	10.0	8.0	8.5	7.0	2.5	1.5	6.0	5.0	6.0	5.0	8.0	6.0
29	10.5	7.5	7.5	7.0	---	---	5.5	4.0	---	---	7.5	6.5
30	10.0	6.5	7.0	6.5	---	---	5.5	4.5	---	---	7.5	6.5
31	11.0	7.0	---	---	---	---	7.0	5.5	---	---	7.0	5.5
MONTH	15.5	6.5	10.5	4.5	8.0	1.5	---	---	8.0	2.5	9.0	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	9.0	9.0	13.5	13.5	20.5	17.0	26.5	20.5	24.0	19.5
2	8.0	6.0	9.0	7.5	14.5	13.5	20.5	18.0	27.0	20.0	24.0	19.5
3	8.5	6.0	8.5	7.5	14.5	11.0	20.0	18.0	28.0	21.0	23.0	19.0
4	10.0	5.5	8.5	8.5	13.5	10.5	22.5	16.5	28.0	22.0	23.0	18.5
5	10.0	7.5	9.0	8.5	12.0	11.0	22.5	17.0	25.0	22.0	23.0	18.0
6	9.0	6.5	9.0	8.5	12.0	11.0	20.0	17.0	25.5	19.0	23.0	18.5
7	9.0	5.5	9.0	9.0	13.5	11.0	20.0	20.0	24.0	19.0	22.0	18.5
8	9.0	7.0	9.0	8.5	14.5	9.5	20.0	16.5	23.5	17.5	21.0	16.5
9	8.5	7.0	9.5	9.0	16.0	11.5	18.0	17.0	24.5	17.5	21.5	17.5
10	9.0	6.0	11.5	8.5	17.0	11.5	19.0	16.0	24.5	18.5	21.5	18.0
11	9.0	9.0	12.5	8.0	17.0	13.5	18.0	18.0	24.5	19.0	20.5	16.0
12	9.5	6.5	11.5	8.5	16.0	14.5	19.5	18.0	23.0	18.5	20.0	15.5
13	8.0	5.5	11.0	7.0	14.5	13.0	19.5	15.5	22.5	17.0	19.5	15.0
14	10.5	6.5	11.0	7.5	14.5	13.0	22.5	16.0	23.0	17.0	19.0	15.0
15	10.5	8.0	9.5	7.5	17.0	14.5	22.5	17.5	23.0	17.0	19.5	15.0
16	11.0	8.0	8.5	6.5	16.5	12.5	19.5	17.5	23.5	18.0	20.0	15.5
17	11.0	8.0	7.5	7.0	18.0	13.0	22.0	18.0	23.0	17.5	20.0	16.0
18	10.0	7.5	7.5	7.0	19.0	14.5	24.5	18.0	21.0	17.5	20.5	16.0
19	9.0	6.5	7.5	7.5	18.5	13.5	24.5	24.5	20.5	17.0	21.0	16.5
20	10.5	9.0	11.0	7.5	18.0	12.0	24.5	20.5	21.5	15.5	20.5	16.5
21	11.0	7.0	12.5	11.0	18.5	13.0	25.0	19.0	21.5	16.0	20.5	16.5
22	11.0	9.5	12.5	12.0	18.5	16.5	24.0	18.5	23.0	17.5	20.5	16.5
23	9.5	7.5	12.5	9.5	17.0	15.0	23.5	21.0	23.5	18.0	20.5	16.5
24	8.5	7.0	14.0	9.5	16.5	15.0	25.0	23.5	23.0	17.5	20.5	16.5
25	7.5	7.0	15.0	11.0	15.5	15.5	25.0	24.5	23.5	18.5	20.0	16.0
26	9.5	6.5	14.5	14.5	17.0	15.0	25.0	24.5	24.5	19.5	19.0	16.0
27	11.0	6.5	14.5	12.0	20.0	14.0	25.0	20.5	24.0	19.0	17.5	14.0
28	11.0	9.5	12.5	12.5	20.0	20.0	27.5	20.0	24.5	19.5	17.5	13.5
29	11.0	9.0	12.5	9.0	22.0	16.0	28.0	21.0	24.5	20.0	17.5	14.0
30	9.0	9.0	13.0	9.0	21.5	19.0	28.0	21.0	24.5	20.5	18.0	14.0
31	---	---	14.0	10.5	---	---	27.5	21.0	24.5	20.5	---	---
MONTH	11.0	5.5	15.0	6.5	22.0	9.5	28.0	15.5	28.0	15.5	24.0	13.5

LOCATION.--Lat 42°29'50", long 123°29'15", in SE¼ sec.26, T.35 S., R.7 W., Josephine County, on left bank at Robertson Bridge, 3.4 mi (5.5 km) upstream from Jumpoff Joe Creek, 3.7 mi (6.0 km) southwest of Merlin, and at mile 86.8 (139.7 km).

PERIOD OF RECORD.--Water temperatures: February to September 1974.

EXTREMES.--February to September 1974:

Water temperatures: Maximum recorded, 23.0°C Aug. 29, Sept. 1; minimum recorded, 3.5°C Feb. 22.

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	4.5	4.0
2	---	---	---	---	---	---	---	---	---	---	4.5	4.5
3	---	---	---	---	---	---	---	---	---	---	5.0	4.0
4	---	---	---	---	---	---	---	---	---	---	5.5	4.5
5	---	---	---	---	---	---	---	---	---	---	6.0	5.0
6	---	---	---	---	---	---	---	---	---	---	5.5	4.5
7	---	---	---	---	---	---	---	---	---	---	5.0	4.0
8	---	---	---	---	---	---	---	---	---	---	5.0	4.0
9	---	---	---	---	---	---	---	---	---	---	5.0	4.5
10	---	---	---	---	---	---	---	---	---	---	5.5	5.0
11	---	---	---	---	---	---	---	---	---	---	7.0	5.5
12	---	---	---	---	---	---	---	---	---	---	6.5	6.0
13	---	---	---	---	---	---	---	---	---	---	6.0	5.5
14	---	---	---	---	---	---	---	---	---	---	7.0	6.0
15	---	---	---	---	---	---	---	---	---	---	7.5	6.5
16	---	---	---	---	---	---	---	---	---	---	7.5	7.5
17	---	---	---	---	---	---	---	---	---	---	8.5	7.0
18	---	---	---	---	---	---	---	---	---	---	8.5	7.0
19	---	---	---	---	---	---	---	---	---	---	8.0	6.5
20	---	---	---	---	---	---	---	---	---	---	8.0	7.0
21	---	---	---	---	---	---	---	---	5.0	---	8.0	7.0
22	---	---	---	---	---	---	---	---	4.5	3.5	8.5	7.0
23	---	---	---	---	---	---	---	---	5.0	4.0	---	---
24	---	---	---	---	---	---	---	---	5.0	4.0	---	---
25	---	---	---	---	---	---	---	---	6.0	5.0	---	---
26	---	---	---	---	---	---	---	---	6.0	5.0	---	---
27	---	---	---	---	---	---	---	---	5.0	4.5	---	---
28	---	---	---	---	---	---	---	---	5.5	4.5	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	16.0	11.5	---	---	---	---	23.0	19.0
2	---	---	---	---	16.5	12.5	---	---	---	---	22.5	19.0
3	---	---	---	---	15.5	13.0	---	---	---	---	22.0	18.5
4	---	---	---	---	13.5	12.5	---	---	---	---	21.5	18.5
5	---	---	---	---	12.0	11.0	---	---	---	---	21.0	18.0
6	---	---	---	---	11.5	10.0	---	---	---	---	21.0	17.5
7	---	---	---	---	13.0	10.0	---	---	---	---	20.0	17.5
8	---	---	---	---	13.5	10.5	---	---	---	---	20.0	16.5
9	---	---	---	---	15.0	11.0	---	---	---	---	19.5	16.5
10	---	---	---	---	---	12.0	---	---	---	---	19.5	16.5
11	---	---	---	---	---	---	---	---	---	---	19.5	16.0
12	---	---	---	---	---	---	---	---	---	---	19.0	15.5
13	---	---	---	---	---	---	---	---	---	---	18.5	15.0
14	---	---	---	---	---	---	---	---	---	---	18.0	14.5
15	---	---	---	---	---	---	---	---	---	---	18.0	14.5
16	---	---	---	---	---	---	---	---	21.0	---	18.0	14.5
17												

ROGUE RIVER BASIN

14372250 ROGUE RIVER AT MARIAL, OREG.

LOCATION.--Lat 42°43'00", long 123°53'05", in NW¼SE¼ sec.9, T.33 S., R.10 W., Curry County, on right bank 0.2 mi (0.3 km) downstream from Mule Creek and at mile 48.2 (77.6 km).

DRAINAGE AREA.--3,812 mi² (9,873 km²).

PERIOD OF RECORD.--Water temperatures: June to September 1974.

EXTREMES.--June to September 1974:

Water temperatures: Maximum, 27.0°C July 29, minimum recorded, 15.0°C Sept. 30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	20.5	19.0	25.0	24.5	22.5	22.0
2	---	---	---	---	---	---	20.0	18.5	24.5	24.0	22.5	22.0
3	---	---	---	---	---	---	20.0	18.0	24.5	24.0	22.5	21.5
4	---	---	---	---	---	---	20.5	18.0	25.5	24.5	22.0	21.0
5	---	---	---	---	---	---	21.0	19.0	25.0	24.5	21.5	21.0
6	---	---	---	---	---	---	21.0	19.0	24.5	23.5	21.0	20.5
7	---	---	---	---	---	---	19.5	18.5	23.5	22.5	21.0	20.0
8	---	---	---	---	---	---	18.5	17.5	23.0	22.0	20.5	19.5
9	---	---	---	---	---	---	17.5	16.5	22.0	21.5	20.0	19.0
10	---	---	---	---	---	---	16.5	15.5	22.0	21.5	19.5	18.5
11	---	---	---	---	---	---	18.0	15.5	22.0	22.0	19.0	18.5
12	---	---	---	---	---	---	19.0	16.0	22.0	21.5	19.0	18.0
13	---	---	---	---	---	---	20.0	17.0	21.5	21.0	18.5	18.0
14	---	---	---	---	16.5	16.0	20.5	18.0	21.0	20.5	18.0	17.0
15	---	---	---	---	17.0	16.5	21.0	18.5	21.0	20.5	18.0	17.0
16	---	---	---	---	17.0	15.5	20.0	19.0	21.0	21.0	18.0	17.0
17	---	---	---	---	16.0	15.5	20.5	19.0	21.0	20.5	18.0	17.0
18	---	---	---	---	17.0	16.0	21.5	19.0	20.5	19.5	18.0	17.5
19	---	---	---	---	18.0	16.5	23.5	20.5	19.5	19.0	18.0	17.5
20	---	---	---	---	17.0	16.5	23.5	21.0	19.5	18.5	18.5	17.5
21	---	---	---	---	16.5	16.0	23.5	21.5	20.0	19.5	18.5	17.5
22	---	---	---	---	17.0	16.0	23.5	21.5	20.0	19.5	18.5	18.0
23	---	---	---	---	18.0	16.0	23.5	21.5	20.5	20.0	18.5	18.0
24	---	---	---	---	18.5	17.0	24.0	21.5	21.0	20.5	18.5	18.0
25	---	---	---	---	18.0	16.5	24.5	21.0	21.5	21.0	18.5	17.5
26	---	---	---	---	17.0	16.0	24.5	21.5	22.5	21.5	18.5	17.0
27	---	---	---	---	18.0	16.0	24.5	22.5	22.5	22.0	17.5	16.5
28	---	---	---	---	18.5	16.5	26.0	23.0	23.0	21.5	16.5	16.0
29	---	---	---	---	19.0	17.5	27.0	23.5	22.0	21.5	16.5	15.5
30	---	---	---	---	21.0	19.0	26.5	23.5	22.0	21.5	16.0	15.0
31	---	---	---	---	---	---	25.0	24.0	22.5	21.5	---	---
MONTH	---	---	---	---	---	---	27.0	15.5	25.5	18.5	22.5	15.0

14372300 ROGUE RIVER NEAR AGNESS, OREG.

LOCATION.--Lat 42°34'50", long 124°03'30", in NE¼NW¼ sec.6, T.35 S., R.11 W., Curry County, at gaging station on left bank, 0.8 mi (1.3 km) upstream from Shasta Costa Creek, 1.5 mi (2.4 km) north of Agness, 2.6 mi (4.2 km) upstream from Illinois River, and at mile 29.7 (47.8 km).

DRAINAGE AREA.--3,939 mi² (10,202 km²).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.

Water temperatures: October 1960 to September 1974.

EXTREMES.--1973-74:

Water temperatures: Maximum recorded, 24.5°C Aug. 6; minimum, 4.0°C Jan. 7-12.

Period of record:

Water temperatures: Maximum, 26.5°C on several days in 1962; minimum, 1.0°C Jan. 22-25, 1962, Dec. 9-16, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (%102) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED FLUOR- IDE (F) (MG/L)
OCT. 17...	1110	26	110	11	4.1	14	1.4	60	0	4.6	3.5	.1
NOV. 27...	11700	19	80	9.4	4.0	4.6	.8	50	0	3.3	2.3	.1
JAN. 25...	11600	21	1500	13	4.9	8.8	1.4	54	0	4.2	1.8	.1
APR. 02...	45000	17	10	8.0	3.2	12	.9	48	0	4.6	2.9	.1
MAY 14...	6000	20	1000	6.6	3.3	3.7	.5	46	0	3.6	1.3	.0
JUNE 25...	3770	21	70	8.3	2.8	3.8	.8	43	0	2.8	2.0	.2
AUG. 06...	1730	28	30	10	3.6	5.5	1.4	54	--	4.6	3.4	.1
SEP. 18...	1520	26	370	9.8	3.6	8.2	1.7	58	--	3.5	2.2	.1

DATE	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	PH (UNITS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT. 17...	.02	.10	94	282	.13	44	0	.9	8.0	111	13.0
NOV. 27...	.14	.06	70	2210	.10	41	0	.3	7.8	94	9.0
JAN. 28...	.53	.09	86	2690	.12	43	8	.5	7.5	102	7.0
APR. 02...	.05	.47	73	8870	.10	33	0	.9	7.5	83	8.3
MAY 14...	.04	--	65	1050	.09	35	0	.3	7.8	84	12.0
JUNE 25...	.04	--	63	641	.09	32	0	.3	8.1	79	18.0
AUG. 06...	.01	.10	83	388	.11	40	0	.4	--	97	23.0
SEP. 18...	.00	.11	86	353	.12	39	0	.6	--	105	17.2

ROGUE RIVER BASIN

14372300 ROGUE RIVER NEAR AGNESS, OREG.—Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	16.5	11.0	11.0	9.5	9.0	8.5	8.0	---	---	---	---
2	16.5	16.0	11.0	10.5	9.5	9.0	8.0	6.0	---	---	---	---
3	16.0	15.0	10.5	10.0	9.5	9.0	6.0	5.5	---	---	---	---
4	15.0	14.5	10.0	9.5	9.0	9.0	5.5	5.5	---	---	---	---
5	14.5	14.0	9.5	8.5	9.0	9.0	5.5	5.0	---	---	---	---
6	14.0	14.0	9.0	8.5	9.5	9.0	5.0	4.5	---	---	---	---
7	14.5	14.0	9.0	9.0	10.0	9.0	4.5	4.0	---	---	---	---
8	14.0	13.5	9.0	8.5	10.0	10.0	4.5	4.0	---	---	---	---
9	13.5	13.5	9.5	9.0	10.0	9.0	4.0	4.0	---	---	---	---
10	13.5	13.5	10.0	9.5	9.0	9.0	4.0	4.0	---	---	---	---
11	13.5	13.0	10.0	10.0	9.0	9.0	4.0	4.0	---	---	---	---
12	13.5	13.0	10.0	10.0	9.0	9.0	5.5	4.0	---	---	---	---
13	13.5	13.5	10.0	9.5	9.0	9.0	6.5	5.5	---	---	---	---
14	13.5	13.5	9.5	9.5	9.0	9.0	8.5	6.5	---	---	---	---
15	13.5	13.5	9.5	9.5	9.0	9.0	9.0	8.0	---	---	---	---
16	13.5	13.0	9.5	9.5	9.0	9.0	9.0	8.5	---	---	---	---
17	13.5	13.0	9.5	9.5	9.0	9.0	8.5	8.5	---	---	---	---
18	14.0	13.5	9.5	8.5	9.0	9.0	---	---	---	---	---	---
19	13.5	13.5	8.5	8.5	9.0	9.0	---	---	---	---	---	---
20	13.5	13.5	8.5	8.5	9.5	9.0	---	---	---	---	---	---
21	14.0	13.5	8.5	8.5	9.5	9.5	---	---	---	---	---	---
22	14.0	13.5	8.5	8.5	9.5	9.5	---	---	---	---	---	---
23	13.5	13.5	8.5	8.5	9.5	9.5	---	---	---	---	---	---
24	13.5	13.5	8.5	8.5	9.5	9.5	---	---	---	---	---	---
25	13.5	12.0	8.5	8.5	9.5	9.0	---	---	---	---	---	---
26	12.0	11.0	8.5	8.5	9.0	9.0	---	---	---	---	---	---
27	11.0	11.0	8.5	8.5	9.0	9.0	---	---	---	---	---	---
28	11.0	11.0	9.0	8.5	9.0	9.0	---	---	---	---	---	---
29	11.0	11.0	9.0	9.0	9.0	9.0	---	---	---	---	---	---
30	11.0	11.0	9.5	9.0	9.0	9.0	---	---	---	---	---	---
31	11.0	11.0	---	---	9.0	8.5	---	---	---	---	---	---
MONTH	16.5	11.0	11.0	8.5	10.0	8.5	---	---	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	20.5	20.0	---	---	23.0	21.0
2	---	---	---	---	---	---	---	---	---	---	23.0	21.0
3	---	---	---	---	18.0	16.5	---	---	---	---	23.0	21.5
4	---	---	---	---	16.5	16.0	---	---	---	---	22.0	21.0
5	---	---	---	---	16.0	16.0	---	---	---	---	22.0	20.5
6	---	---	---	---	16.0	16.0	---	---	24.5	23.0	21.5	20.5
7	---	---	---	---	16.0	15.5	---	---	23.5	22.0	21.0	20.0
8	---	---	---	---	15.5	15.5	---	---	23.5	21.5	20.5	20.0
9	---	---	---	---	16.0	15.5	---	---	23.5	21.0	20.5	19.5
10	---	---	---	---	17.0	15.5	---	---	23.5	21.0	19.5	18.0
11	---	---	---	---	18.0	16.5	---	---	23.5	21.0	19.5	18.0
12	---	---	---	---	18.5	17.0	---	---	23.0	21.0	19.0	18.0
13	---	---	---	---	18.5	17.0	---	---	22.0	20.5	19.0	18.0
14	---	---	---	---	18.5	17.0	---	---	22.0	20.5	19.0	17.0
15	---	---	---	---	18.5	17.0	---	---	21.5	20.0	18.5	17.0
16	---	---	---	---	18.0	17.0	---	---	22.0	20.5	18.0	16.5
17	---	---	---	---	18.0	16.5	---	---	21.5	19.5	18.0	16.5
18	---	---	---	---	18.0	16.5	---	---	20.5	19.5	19.0	17.0
19	---	---	---	---	18.5	17.0	---	---	20.5	18.5	19.0	18.0
20	---	---	---	---	18.5	17.0	---	---	20.0	18.0	19.0	18.0
21	---	---	---	---	18.0	17.0	---	---	20.0	18.5	---	---
22	---	---	---	---	18.5	16.5	---	---	20.5	19.0	---	---
23	---	---	---	---	18.5	16.5	---	---	20.5	19.5	---	---
24	---	---	---	---	19.0	18.0	---	---	21.0	19.5	---	---
25	---	---	---	---	18.5	18.0	---	---	21.5	20.0	---	---
26	---	---	---	---	18.5	16.5	---	---	21.5	20.5	---	---
27	---	---	---	---	18.5	16.5	---	---	23.0	20.5	---	---
28	---	---	---	---	18.5	17.0	---	---	22.0	21.0	---	---
29	---	---	---	---	20.0	18.0	---	---	22.0	21.0	---	---
30	---	---	---	---	20.5	19.0	---	---	22.0	20.5	---	---
31	---	---	---	---	---	---	---	---	22.0	21.0	---	---
MONTH	---	---	---	---	20.5	15.5	---	---	24.5	18.0	---	---

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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JOHN DAY RIVER BASIN

14048000 - JOHN DAY R AT MCDONALD FERRY, OREG.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	ENDRIN (UG/L)	DI- ELDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
APR. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00

14048000 - JOHN DAY R AT MCDONALD FERRY, OREG.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHLOR- DANE (UG/L)	PAPA- THION (UG/L)	METHYL PARA- THION (UG/L)	MALA- THION (UG/L)	DI- AZINON (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
APR. 18...	.0	.00	.00	.00	.00	.02	.00	.00	.0

14048000 - JOHN DAY R AT MCDONALD FERRY, OREG.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALDRIN IN BOTTOM DE- POSIT (UG/KG)	DDD IN BOTTOM DE- POSIT (UG/KG)	DDT IN BOTTOM DE- POSIT (UG/KG)	ENDRIN IN BOTTOM DE- POSIT (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSIT (UG/KG)	LINDANE IN BOTTOM DE- POSIT (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSIT (UG/KG)	PCB IN BOTTOM DE- POSIT (UG/KG)
APR. 18...	.0	.0	.0	.0	.0	.0	.0	0	0

MALHEUR AND HARNEY LAKES BASIN

DATE	ALDRIN IN BOTTOM DE- POSIT (UG/KG)	DDD IN BOTTOM DE- POSIT (UG/KG)	DDE IN BOTTOM DE- POSIT (UG/KG)	DDT IN BOTTOM DE- POSIT (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSIT (UG/KG)	ENDRIN IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSIT (UG/KG)	HEPTA- CHLOR EPOXIDE IN ROT- TOM DE- POSIT (UG/KG)	LINDANE IN BOTTOM DE- POSIT (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSIT (UG/KG)
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10402000 - MALHEUR LAKE OUTLET AT NARROWS, OREG. (LAT 43 16 55 LONG 118 57 50)

OCT., 1973 17...	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
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431910118492500 - MALHEUR LAKE, OREG. (SITE 12) (LAT 43 19 10 LONG 118 49 25)

OCT., 1973 17...	.0	.0	.8	.0	.0	.0	.0	.0	.0	0
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432045118424000 - MALHEUR LAKE, OREG. (SITE 9) (LAT 43 20 45 LONG 118 42 40)

OCT., 1973 16...	.0	.0	.4	.0	.0	.0	.0	.0	.0	0
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DATE	PCB IN BOTTOM DE- POSIT (UG/KG)	TOTAL ARSENIC IN BOTTOM DE- POSIT (UG/G)	TOTAL BARIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL COBALT IN BOTTOM DE- POSIT (UG/G)	TOTAL COPPER IN BOTTOM DE- POSIT (UG/G)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL ALUMI- NUM IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)
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10402000 - MALHEUR LAKE OUTLET AT NARROWS, OREG. (LAT 43 16 55 LONG 118 57 50)

OCT., 1973 17...	0	3	50	1	10	10	10	10000	.0
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431910118492500 - MALHEUR LAKE, OREG. (SITE 12) (LAT 43 19 10 LONG 118 49 25)

OCT., 1973 17...	0	4	80	3	21	17	17	29000	.0
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432045118424000 - MALHEUR LAKE, OREG. (SITE 9) (LAT 43 20 45 LONG 118 42 40)

OCT., 1973 16...	0	2	100	3	12	79	30	5200	.0
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DESCHUTES RIVER BASIN

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO ₂) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
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14092110 - DESCHUTES RIVER BLW ROUND BUTTE DAM (LAT 44 36 26 LONG 121 16 32)

JULY, 1974 30... 4570	31		10	140	7.8	4.9	10	2.0	69	3.6	1.9	.1
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14092700 - DESCHUTES RIVER NR WARM SPRINGS OREG (LAT 44 45 40 LONG 121 13 38)

JULY, 1974 30... 4600	30		0	40	8.3	5.4	9.0	2.0	70	3.1	1.9	.1
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14092870 - SHITIKE CREEK AT WATER SUPPLY DIVERSTION (LAT 44 47 02 LONG 121 20 00)

JULY, 1974 30... 130	21		0	40	3.2	1.0	2.9	.9	22	1.1	1.7	.1
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14097110 - SKOOKUM CREEK NEAR WARM SPRINGS, OREG. (LAT 44 55 16 LONG 121 05 16)

MAY, 1974 09... .71	47	--		1100	5.7	1.8	18	1.3	62	3.6	3.1	.3
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DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)
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14092110 - DESCHUTES RIVER BLW ROUND BUTTE DAM (LAT 44 36 26 LONG 121 16 32)

JULY, 1974 30... .13	96	40	0	.11	2	0	0	0	140	7.0	13.0
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14092700 - DESCHUTES RIVER NR WARM SPRINGS OREG (LAT 44 45 40 LONG 121 13 38)

JULY, 1974 30... .11	95	43	0	.10	2	0	0	0	140	7.4	13.0
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14092870 - SHITIKE CREEK AT WATER SUPPLY DIVERSTION (LAT 44 47 02 LONG 121 20 00)

JULY, 1974 30... .19	44	12	0	.01	1	0	0	10	55	6.5	16.0
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14097110 - SKOOKUM CREEK NEAR WARM SPRINGS, OREG. (LAT 44 55 16 LONG 121 05 16)

MAY, 1974 09... .03	113	22	0	--	29	--	--	--	116	7.6	11.0
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DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)
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14096820 - COYOTE CREEK NEAR SIMNASHO, OREG. (LAT 44 57 08 LONG 121 23 40.01)

FEB., 1973 06... .90	28	12	.03
MAR. 05... 2.9	43	14	.11
APR. 03... .40	24	16	.02
MAY 02... .03	19	4	.00
JAN., 1974 14... 150	76	264	107

14096830 - BEAVER CR NR SIMNASHO, OREG. (LAT 44 57 08 LONG 121 23 40)

MAR., 1973 05... 52	24	4	.56
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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DESCHUTES RIVER BASIN

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED CALCIUM (CA) (MG/L)	DIS- SOLVED MAGNESIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)
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445808121191700 - HAPPY VALLEY RESERVOIR (LAT 44 58 08 LONG 121 19 17.01)

SEP.. 1974 17...	.5	31	--	--	15	5.3	9.2	1.3	99	1.6	1.6	
DATE	DEPTH (FT)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOSPHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CARBONATE HARD- NESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH	TEMPERATURE (DEG C)	ALKALINITY AS CACO ₃ (MG/L)	PERCENT SODIUM

445808121191700 - HAPPY VALLEY RESERVOIR (LAT 44 58 08 LONG 121 19 17.01)

SEP.. 1974 17...	.2	.24	.04	115	59	0	270	7.9	18.5	81	25
DATE	DEPTH (FT)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TEMPERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PH	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	ALKALINITY AS CACO ₃ (MG/L)	PERCENT SODIUM

444757121455100 - LONG LAKE (LAT 44 47 57 LONG 121 45 51.01)

SEP.. 1974 12...	.5	6	13.0	7.2	6.5	1.9	10
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444800121440500 - TROUT LAKE (LAT 44 48 00 LONG 121 44 05.01)

SEP.. 1974 17...	.5	36	14.2	6.1	7.8	18	38
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445036121442000 - BLUE LAKE (LAT 44 50 36 LONG 121 44 20.01)

SEP.. 1974 18...	.5	5	15.1	5.8	7.7	.6	10
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444512121460200 - HAPVY LAKE (LAT 44 45 12 LONG 121 46 02.01)

SEP.. 1974 18...	.5	16	14.8	6.1	7.3	7.7	21
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444613121463800 - BRITENBUSH LAKE (LAT 44 46 13 LONG 121 46 38.01)

SEP.. 1974 11...	.5	7	12.8	7.3	6.6	3.8	14
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444626121464400 - GIBSON LAKE (LAT 44 46 26 LONG 121 46 44.01)

SEP.. 1974 13...	.5	3	11.0	7.1	6.9	.5	7
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444634121463600 - SPOON LAKE (LAT 44 46 34 LONG 121 46 36.01)

SEP.. 1974 12...	.5	3	9.0	6.2	5.8	.5	8
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444735121433100 - BOULDER LAKE (LAT 44 47 35 LONG 121 43 31.01)

SEP.. 1974 18...	.5	16	14.8	5.9	7.4	7.5	25
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444742121444800 - ISLAND LAKE (LAT 44 47 42 LONG 121 44 48.01)

SEP.. 1974 17...	.5	39	12.2	6.0	7.8	21	47
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444749121452900 - DARK LAKE (LAT 44 47 49 LONG 121 45 29.01)

SEP.. 1974 12...	.5	10	14.2	6.5	6.9	3.5	15
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DESCHUTES RIVER BASIN

	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SUS- PENDE SEDI- MENT MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
DATE			

14092460 - CAMPRELL CREEK NR WARMSPRINGS, OREG. (LAT 44 42 53 LONG 121 13 32)

JUNE, 1973			
07...	21	185	10
JULY, 1974			
30...	15	32	1.3

14096840 - QUARTZ CREEK NEAR SIMNASHO, OREG. (LAT 44 57 08 LONG 121 23 40.02)

JAN., 1974			
14...	200	2170	1170

14097100 - WARM SPRINGS RIVER AT KAHNEETA HOT SPRINGS, OREG. (LAT 44 51 24 LONG 121 08 55)

JAN., 1974			
14...	1910	412	2130
15...	4610	917	11400

MIDDLE WILLAMETTE RIVER BASIN

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
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451514123202300 - RAINBOW LAKE (LAT 45 15 14 LONG 123 20 23)

AUG., 1974											
23...	1.0	21	0	0	10	2.9	5.6	.4	50	2.1	4.3

452041123052000 - TILIKUM LAKE (LAT 45 20 41 LONG 123 05 20)

AUG., 1974											
21...	1.0	12	40	20	5.8	2.0	4.9	1.1	30	2.8	3.3

DATE	DEPTH (FT)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (MG/L)	PH (UNITS)	TEMPER- ATURE (DEG C)	ALKA- LITY AS CAC03 (MG/L)	PERCENT SODIUM
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451514123202300 - RAINBOW LAKE (LAT 45 15 14 LONG 123 20 23)

AUG., 1974											
23...	.0	.01	.03	71	37	0	97	8.0	16.0	41	25

452041123052000 - TILIKUM LAKE (LAT 45 20 41 LONG 123 05 20)

AUG., 1974											
21...	.0	2.2	.00	56	23	0	72	7.8	22.8	25	31

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (MG/L)	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	HARD- NESS (CA, MG) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
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450614123032500 - AQUATIC GARDENS (LAT 45 06 14 LONG 123 03 25)

AUG., 1974								
22...	1.0	21.0	238	7.2	21	13	110	151

451814123212200 - HASKINS CREEK RESERVOIR (LAT 45 18 14 LONG 123 21 22)

AUG., 1974								
29...	1.0	20.5	57	7.5	5.6	1.6	21	47

451835123243000 - MCGUIRE RES (LAT 45 18 35 LONG 123 24 30)

AUG., 1974								
29...	1.0	22.8	41	7.2	3.8	1.3	15	33

452650123234000 - BARNEY RES (LAT 45 26 50 LONG 123 23 40)

AUG., 1974								
28...	1.0	22.2	53	7.5	4.8	1.9	20	42

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOWER WILLAMETTE RIVER BASIN

DATE	DEPTH (FT)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
452831123031700 - WALTERS RES (LAT 45 28 31 LONG 123 03 17)											
JULY, 1974 31...	1.0	.2	10	0	9.5	3.0	4.4	.9	39	1.5	2.2
453042122483400 - COMMONWEALTH LAKE (LAT 45 30 42 LONG 122 48 34)											
AUG., 1974 16...	1.0	39	160	0	15	6.6	8.8	2.0	75	8.4	6.7
DATE	DEPTH (FT)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	ALKA- LITY AS CAC03 (MG/L)	PERCENT SODIUM
452831123031700 - WALTERS RES (LAT 45 28 31 LONG 123 03 17)											
JULY, 1974 31...	.0	2.2	.01	51	36	4	105	10.0	27.0	32	20
453042122483400 - COMMONWEALTH LAKE (LAT 45 30 42 LONG 122 48 34)											
AUG., 1974 16...	.1	1.0	.08	128	65	3	175	9.1	20.0	62	22
DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)			
453314122262000 - BLUE LAKE NR TROUTDALE (LAT 45 33 14 LONG 122 26 20)											
SEP., 1974 06...	1.0	21.1	141	6.9	14	5.2	56	92			
453346122243800 - COMPANY LAKE (LAT 45 33 46 LONG 122 24 38)											
SEP., 1974 06...	1.0	24.4	848	8.5	43	6.9	140	523			
453427122364400 - WHITTAKER POND (LAT 45 34 27 LONG 122 36 44)											
SEP., 1974 11...	1.0	19.0	262	8.3	28	8.9	110	188			
453608122421800 - UNNAMED LAKE NO 13 MULT (LAT 45 36 08 LONG 122 42 18)											
SEP., 1974 10...	1.0	20.2	347	8.4	38	15	160	222			
453614122413700 - FORCE LAKE (LAT 45 36 14 LONG 122 41 37)											
SEP., 1974 10...	1.0	19.0	595	9.6	31	16	140	507			
453653122440500 - SMITH LAKE (LAT 45 36 53 LONG 122 44 05)											
SEP., 1974 09...	1.0	19.9	187	9.3	19	5.9	72	226			
453156122515700 - TANASBROOK LAKE (LAT 45 31 56 LONG 122 51 57)											
AUG., 1974 27...	1.0	23.0	15500	8.2	1800	120	5000	12100			
453301122272000 - FAIRVIEW LAKE (LAT 45 33 01 LONG 122 27 20)											
SEP., 1974 11...	1.0	21.3	188	9.0	19	7.7	79	119			

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LOWER WILLAMETTE RIVER BASIN

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
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453658122443200 - BYBEE LAKE (LAT 45 36 58 LONG 122 44 32)

SEP.. 1974								
10...	1.0	21.0	256	7.5	27	8.8	100	188

454246123050200 - RUMP RES (LAT 45 42 46 LONG 123 05 02)

JULY. 1974								
31...	1.0	24.0	31	7.6	2.4	.9	10	26

454430122481000 - STURGEON LAKE (LAT 45 44 30 LONG 122 48 10)

SEP.. 1974								
04...	1.0	20.1	112	7.5	9.8	3.0	37	76

SANDY RIVER BASIN

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
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452738121504000 - BULL RUN LAKE (LAT 45 27 38 LONG 121 50 40)

SEP.. 1974								
12...	1.0	15.0	15	6.9	1.3	.4	5	16

453430122082000 - WAHKEENA POND (LAT 45 34 30 LONG 122 08 20)

SEP.. 1974								
27...	1.0	16.4	69	8.2	6.1	2.5	26	45

HOOD RIVER BASIN

DATE	DEPTH (FT)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
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453A30121403000 - GREEN POINT RES UPPER (LAT 45 38 30 LONG 121 40 30)

SEP.. 1974								
30...	2.0	16.0	30	7.3	1.9	1.2	10	28

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

BEAR CREEK BASIN

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAP- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
14248700 - BEAR CREEK NEAR SVENSEN, OREG. (LAT 46 06 48 LONG 123 37 55)												
OCT., 1973												
05... 18		31	110	10	7.8	2.4	6.5	2.0	35	0	5.1	9.9
APR., 1974												
05... 32		36	70	0	4.5	1.8	6.4	1.4	23	0	3.6	4.7
JUNE												
20... 10		10	50	0	4.7	2.3	5.6	1.5	31	0	4.4	4.4

14248810 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 1 (LAT 46 06 15 LONG 123 35 55)

OCT., 1973												
05...	.50	30	50	10	11	3.8	7.4	2.1	38	0	16	5.3
APR., 1974												
05...	4.9	26	50	0	5.5	2.3	7.3	1.3	25	0	8.9	5.5
JUNE												
20...	2.5	32	260	20	5.7	2.4	5.3	1.3	28	0	8.3	4.3

14248830 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 3 (LAT 46 06 55 LONG 123 37 25)

OCT., 1973												
05...	.89	25	200	70	8.6	3.0	7.0	1.6	31	0	12	5.1
APR., 1974												
05...	13	21	70	0	3.9	1.6	6.4	1.0	17	0	6.1	4.1
JUNE												
20...	1.4	31	30	0	6.9	3.3	5.8	1.8	36	0	10	4.3

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (P04) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS PER DAY	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	TEMPER- ATURE (DEG C)	PH (UNITS)	ALKAL- INITY AS CAC03 (MG/L)
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14248700 - BEAR CREEK NEAR SVENSEN, OREG. (LAT 46 06 48 LONG 123 37 55)

OCT., 1973												
05...	.1	.12	.34	83	4.03	29	1	--	--	10.5	7.4	29
APR., 1974												
05...	.1	.11	.09	70	6.16	19	0	--	--	17.0	7.5	19
JUNE												
20...	.0	.04	.03	48	1.39	21	0	--	--	8.5	7.7	25

14248810 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 1 (LAT 46 06 15 LONG 123 35 55)

OCT., 1973												
05...	.1	.04	.43	95	.13	43	12	--	--	8.5	7.8	31
APR., 1974												
05...	.1	.03	.12	70	.94	23	3	--	--	18.0	7.6	21
JUNE												
20...	.0	.04	.21	74	.51	24	1	--	--	14.0	7.7	23

14248830 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 3 (LAT 46 06 55 LONG 123 37 25)

OCT., 1973												
05...	.1	.01	.25	78	.19	34	8	--	--	9.0	7.4	25
APR., 1974												
05...	.1	.04	.09	53	1.92	16	2	--	--	17.3	7.3	14
JUNE												
20...	.0	.05	.18	81	.31	31	1	--	--	--	7.8	30

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
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14248700 - BEAR CREEK NEAR SVENSEN, OREG. (LAT 46 06 48 LONG 123 37 55)

OCT., 1973				
05... 1325	18	10.5	6	.29
APR., 1974				
05... 1045	32	17.0	10	.88
JUNE				
20... 1100	10	8.5	6	.17

14248810 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 1 (LAT 46 06 15 LONG 123 35 55)

OCT., 1973				
05... 1400	.50	8.5	1	.00
APR., 1974				
05... 1130	4.9	18.0	22	.29
JUNE				
20... 1330	2.5	14.0	6	.04

14248830 - WATERWORKS CREEK NR SVENSEN OREGON SITE NO 3 (LAT 46 06 55 LONG 123 37 25)

OCT., 1973				
05... 1510	.89	9.0	8	.02
APR., 1974				
05... 1230	13	17.3	12	.43
JUNE				
20... 1245	1.4	--	6	.02

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

NORTH COAST BASIN

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
14303748 - SALMON RIVER NEAR OTIS, OREG. (LAT 45 01 25 LONG 123 56 43)												
APR.. 1974												
03... 1000		11	100	0	5.1	1.0	4.4	.3	18	0	2.1	4.1
AUG.												
21... 60		18	180	10	4.0	2.9	12	2.7	21	0	7.0	18
14303968 - DRIFT CREEK NEAR CUTLER CITY, OREG. (LAT 44 55 00 LONG 123 58 45)												
AUG.. 1974												
21... 45		12	20	0	9.0	1.9	6.0	.2	33	0	4.0	5.0
14306038 - DEPOT CREEK NEAR TOLEDO, OREG. (LAT 44 09 13 LONG 123 57 05)												
AUG.. 1974												
21... 4.0		20	370	0	5.8	2.3	9.5	1.4	27	0	7.1	9.5
14306041 - THEIL CREEK NEAR SOUTH BEACH, OREG. (LAT 44 33 50 LONG 124 04 10)												
AUG.. 1974												
21... 3.0		15	520	0	3.4	1.9	15	1.0	18	0	5.0	21
14306044 - BEAVER CREEK NEAR ONA, OREG. (LAT 44 30 36 LONG 124 00 40)												
AUG.. 1974												
21... 12		12	160	0	4.4	1.6	8.2	1.1	21	0	3.0	8.4
21... 12		12	160	0	4.4	1.6	8.2	1.1	21	0	3.0	8.4
14306500 - ALSEA RIVER NEAR TIDEWATER, OREG. (LAT 44 23 10 LONG 123 49 50)												
AUG.. 1974												
21... 116		12	40	0	4.6	1.7	4.8	.8	29	0	2.4	4.2
14306820 - DRIFT CREEK NEAR WALDPORT, OREG. (LAT 44 27 44 LONG 123 57 42)												
AUG.. 1974												
22... 40		12	40	0	4.0	1.9	7.6	.9	25	0	2.4	6.1
14306875 - YACHATS RIVER NEAR YACHATS, OREG. (LAT 44 17 55 LONG 124 03 25)												
APR.. 1974												
04... 700		12	60	0	2.7	.9	4.7	.6	14	0	1.5	5.3
AUG.												
22... 30		14	80	0	4.6	2.7	6.6	.7	27	0	2.8	6.3
14305500 - SILETZ RIVER AT SILETZ, OREG. (LAT 44 42 55 LONG 123 53 10)												
APR.. 1974												
03... 4280		9.7	120	0	3.4	.7	3.4	.4	12	0	1.4	3.3
AUG.												
21... 168		14	50	0	7.4	2.2	5.9	.5	34	0	5.3	4.5
14306000 - EUCHRE CREEK NEAR SILETZ, OREG. (LAT 44 46 50 LONG 123 54 20)												
AUG.. 1974												
21... 15		12	20	0	5.3	1.9	5.5	.4	32	0	2.8	3.3
14306010 - ROCKY CREEK NEAR DEPOE BAY, OREG. (LAT 44 46 45 LONG 123 04 10)												
AUG.. 1974												
22... 1.5		12	40	0	4.1	1.0	4.0	.6	23	0	2.3	3.2
14306016 - MOLOCK CREEK NEAR BEVERLY BEACH, OREG. (LAT 44 42 05 LONG 124 03 30)												
AUG.. 1974												
21... 1.0		22	170	0	4.0	2.4	13	1.5	20	0	6.3	19
14306030 - YAQUINA RIVER NEAR CHITWOOD, OREG. (LAT 44 39 29 LONG 123 50 15)												
APR.. 1974												
04... 860		12	160	0	4.0	.9	5.3	.7	14	0	1.8	4.3
AUG.												
21... 14		12	150	0	4.8	1.6	7.8	1.7	29	0	2.5	6.4
14306032 - ELK CREEK NEAR ELK CITY, OREG. (LAT 44 36 20 LONG 123 51 01)												
AUG.. 1974												
21... 15		7.5	110	0	4.4	1.2	8.2	1.1	28	0	2.5	5.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

NORTH COAST BASIN

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	TEMPER- ATURE (DEG C)	PH (UNITS)	ALKA- LITY AS CAC03 (MG/L)
14303748 - SALMON RIVER NEAR OTIS, OREG. (LAT 45 01 25 LONG 123 56 43)												
APR.. 1974												
03...	.0	.33	.06	39	105	17	0	--	--	7.0	--	15
AUG.												
21...	.0	.06	.03	75	12.1	22	5	0	40	13.5	7.5	17
14303968 - DRIFT CREEK NEAR CUTLER CITY, OREG. (LAT 44 55 00 LONG 123 58 45)												
AUG.. 1974												
21...	.0	.04	.03	55	6.68	30	3	--	--	14.0	7.0	27
14306038 - DEPOT CREEK NEAR TOLEDO, OREG. (LAT 44 09 13 LONG 123 57 05)												
AUG.. 1974												
21...	.0	.23	.06	70	.76	24	2	--	--	15.5	6.9	22
14306041 - THFIL CREEK NEAR SOUTH BEACH, OREG. (LAT 44 33 50 LONG 124 04 10)												
AUG.. 1974												
21...	.0	.18	.03	73	.59	16	2	--	--	16.0	6.5	15
14306044 - BEAVER CREEK NEAR OMA, OREG. (LAT 44 30 36 LONG 124 00 40)												
AUG.. 1974												
21...	.0	.29	.03	51	1.65	18	0	--	--	16.0	6.5	17
21...	.0	.29	.03	51	1.65	18	0	--	--	16.0	6.5	17
14306500 - ALSEA RIVER NEAR TIDEWATER, OREG. (LAT 44 23 10 LONG 123 49 50)												
AUG.. 1974												
21...	.1	.05	.06	45	14.1	18	0	--	--	19.0	7.1	24
14306820 - DRIFT CREEK NEAR WALDPORT, OREG. (LAT 44 27 44 LONG 123 57 42)												
AUG.. 1974												
22...	.0	.11	.00	48	5.18	18	0	0	20	15.5	6.9	21
14306875 - YACHATS RIVER NEAR YACHATS, OREG. (LAT 44 17 55 LONG 124 03 25)												
APR.. 1974												
04...	.0	.34	.09	36	68.0	10	0	--	--	7.5	6.8	11
AUG.												
22...	.0	.10	.03	52	4.21	23	0	0	30	14.0	6.9	22
14305500 - SILETZ RIVER AT SILETZ, OREG. (LAT 44 42 55 LONG 123 53 10)												
APR.. 1974												
03...	.0	.32	.06	30	347	11	2	--	--	8.0	6.7	10
AUG.												
21...	.1	.18	.09	58	26.3	28	0	--	--	16.5	6.8	28
14306000 - EUCHRE CREEK NEAR SILETZ, OREG. (LAT 44 46 50 LONG 123 54 20)												
AUG.. 1974												
21...	.0	.01	.03	47	1.90	21	0	--	--	14.0	7.1	26
14306010 - ROCKY CREEK NEAR DEPOE BAY, OREG. (LAT 44 46 45 LONG 123 04 10)												
AUG.. 1974												
22...	.0	.03	.03	39	.16	14	0	--	--	13.5	6.8	19
14306016 - MOLOCK CREEK NEAR BEVERLY BEACH, OREG. (LAT 44 42 05 LONG 124 03 30)												
AUG.. 1974												
21...	.0	.11	.03	79	.21	20	3	0	50	13.0	6.4	16
14306030 - YAQUINA RIVER NEAR CHITWOOD, OREG. (LAT 44 39 29 LONG 123 50 15)												
APR.. 1974												
04...	.0	.90	.09	40	92.9	14	2	--	--	8.0	6.8	11
AUG.												
21...	.0	.18	.03	52	1.97	19	0	--	--	17.5	6.8	24
14306032 - ELK CREEK NEAR ELK CITY, OREG. (LAT 44 36 20 LONG 123 51 01)												
AUG.. 1974												
21...	.0	.08	.03	44	1.78	16	0	--	--	19.0	7.6	23

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

NORTH COAST BASIN

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
14301500 - WILSON RIVER NEAR TILLAMOOK, OREG. (LAT 45 28 35 LONG 123 43 20)					
NOV., 1973					
09...	1400	9210	9.5	294	7310
14303748 - SALMON RIVER NEAR OTIS, OREG. (LAT 45 01 25 LONG 123 56 43)					
NOV., 1973					
16...	0915	2950	8.5	116	924
14303968 - DRIFT CREEK NEAR CUTLER CITY, OREG. (LAT 44 55 00 LONG 123 58 45)					
NOV., 1973					
09...	1550	1650	10.5	382	1700
14305500 - SILETZ RIVER AT SILETZ, OREG. (LAT 44 42 55 LONG 123 53 10)					
OCT., 1973					
12...	1420	2900	9.0	64	501
NOV.					
09...	1715	12000	9.5	221	7160
12...	1700	7560	9.5	102	2080
FEB., 1974					
13...	1125	1320	6.0	5	18

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