

Data on Surface-Water Quality and Quantity, Truckee River System, Nevada and California, 1979-81

By Richard J. La Camera, Ray J. Hoffman, Jon O. Nowlin,
Lawrence H. Smith, and Suzanne M. Lima

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DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information
write to:

U.S. Geological Survey
Room 227, Federal Building
705 North Plaza Street
Carson City, NV 89701

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CONVERSION FACTORS, ABBREVIATIONS, SYMBOLS, AND ACRONYMS

"Inch-pound" units of measure used in this report may be converted to International System (metric) units by using the following factors:

<i>Multiply</i>	<i>By</i>	<i>To obtain</i>
Cubic feet per second (ft ³ /s)	0.02832	Cubic meters per second (m ³ /s)
Feet (ft)	0.3048	Meters (m)
Feet per second (ft/s)	0.3048	Meters per second (m/s)
Miles (mi)	1.609	Kilometers (km)
Miles per hour (mi/hr)	1.609	Kilometers per hour (km/hr)
Square feet (ft ²)	0.09290	Square meters (m ²)

For temperature, degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) by using the formula °F = [(1.8)(°C)] + 32.

Symbols, acronyms, and additional abbreviations used in this report are as follows:

BOD = biochemical oxygen demand	MM = millimeters
CACO ₃ = calcium carbonate	MM OF HG = Millimeters of mercury
DEG C, °C = degrees Celsius	N = nitrogen
DO = dissolved oxygen	NH ₄ = ammonium
G/KG = grams per kilogram	NO ₂ = nitrite
g/L = grams per liter	NO ₃ = nitrate
HG = mercury	NTU = nephelometric turbidity units
HgCl ₂ = mercuric chloride	UG/G = micrograms per gram
HNO ₃ = nitric acid	UG/KG = micrograms per kilogram
kg = kilograms	UG/L, ug/L = micrograms per liter
MG/KG = milligrams per kilogram	UM, um = micrometers
MG/L = milligrams per liter	USGS = United States Geological Survey
MICROMHOS = micromhos per centimeter at 25°C	WATSTORE = National Water Data Storage and Retrieval System of the U.S. Geological Survey
ML, mL = milliliters	

ALTITUDE DATUM

The term "National Geodetic Vertical Datum of 1929" replaces the formerly used term "mean sea level" to describe the datum for altitude measurements. The geodetic datum is derived from a general adjustment of the first-order leveling networks of both the United States and Canada. For convenience in this report, the datum also is referred to as "sea level."

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ABSTRACT

Selected hydrologic data were collected between May 1979 and October 1981 at 59 sites on the Truckee River, 10 sites on selected tributaries and smaller diversions, and 9 sites on the Truckee Canal. The data were collected in support of the water-quality and hydrologic-investigation components of the Truckee-Carson River-Quality Assessment by the U.S. Geological Survey.

This report contains information based on: (1) four water-quality studies during which data were collected nearly simultaneously at several sites over a 24-hour period; (2) analyses of phytoplankton samples to supplement other biological data collected during the synoptic studies; (3) an investigation of surface and intragravel water quality to determine the suitability of the river as a spawning habitat for Lahontan cutthroat trout; (4) records from 10 water-temperature recorders; (5) 14 dye-tracer studies; (6) 5 gas-tracer reaeration studies; (7) traveltime calculations derived from results of the dye and reaeration studies; and (8) discharge and associated channel-geometry measurements at 46 miscellaneous sites on the river, selected tributaries, and the canal.

INTRODUCTION

Purpose and Scope

The purpose of this report is to present, in tabular form, the physical, chemical, and biological data collected as part of the Truckee-Carson River-Quality Assessment (Nowlin and others, 1980), in support of mathematical streamflow modeling, mathematical water-quality modeling, and a detailed investigation of trout-spawning habitats in the Truckee River system.

In scope, this report includes data collected from seven types of field investigations during the period from May 1979 to October 1981: (1) Synoptic water-quality studies (approximately simultaneous data collection at several sites), consisting of diel measurements (a series of measurements made over a 24-hour period), to obtain data for water-quality modeling; (2) analyses of phytoplankton samples to supplement synoptic water-quality data; (3) evaluation of trout-spawning habitats in the Truckee River; (4) daily monitoring of water temperature for the water-quality modeling and trout-habitat studies; (5) dye-tracer studies to determine traveltimes for flow and water-quality modeling;

(6) gas-tracer reaeration studies to quantify reaeration capacities of typical reaches in the Truckee River; and (7) measurements of discharge and characterizations of channel geometry for flow and water-quality modeling.

Data-collection dates are summarized herein, by data category, in the list of tables (pages *iv-v*). Almost all of the data listed in this report were collected between May 1979 and October 1980. Only limited supplemental information was obtained in 1981 (table 32).

Data collection was limited to 78 sites in the Truckee River basin and on the Truckee Canal, generally during seasonal high- and low-flow periods.

Acknowledgments

The authors appreciate the assistance of many people in collecting data for the Truckee-Carson River-Quality Assessment.

Geological Survey personnel from California who disrupted their schedules to assist in the data collection included Wendell Ayers, William M. Brown III, Kristin D. Evenson, Rick T. Iwatsubo, Gail L. Keeter, Gerald L. Rockwell, Timothy G. Rowe, John Shay, Stephen K. Sorenson, Gregory F. Susich, Ann L. Tabor, and Gregory G. Tom. Michael P. Schroeder and Johnson J. S. Yee, from the Geological Survey Central Laboratory in Arvada, Colo., and the Geological Survey District Office in Hawaii, respectively, also participated in the data-collection activities.

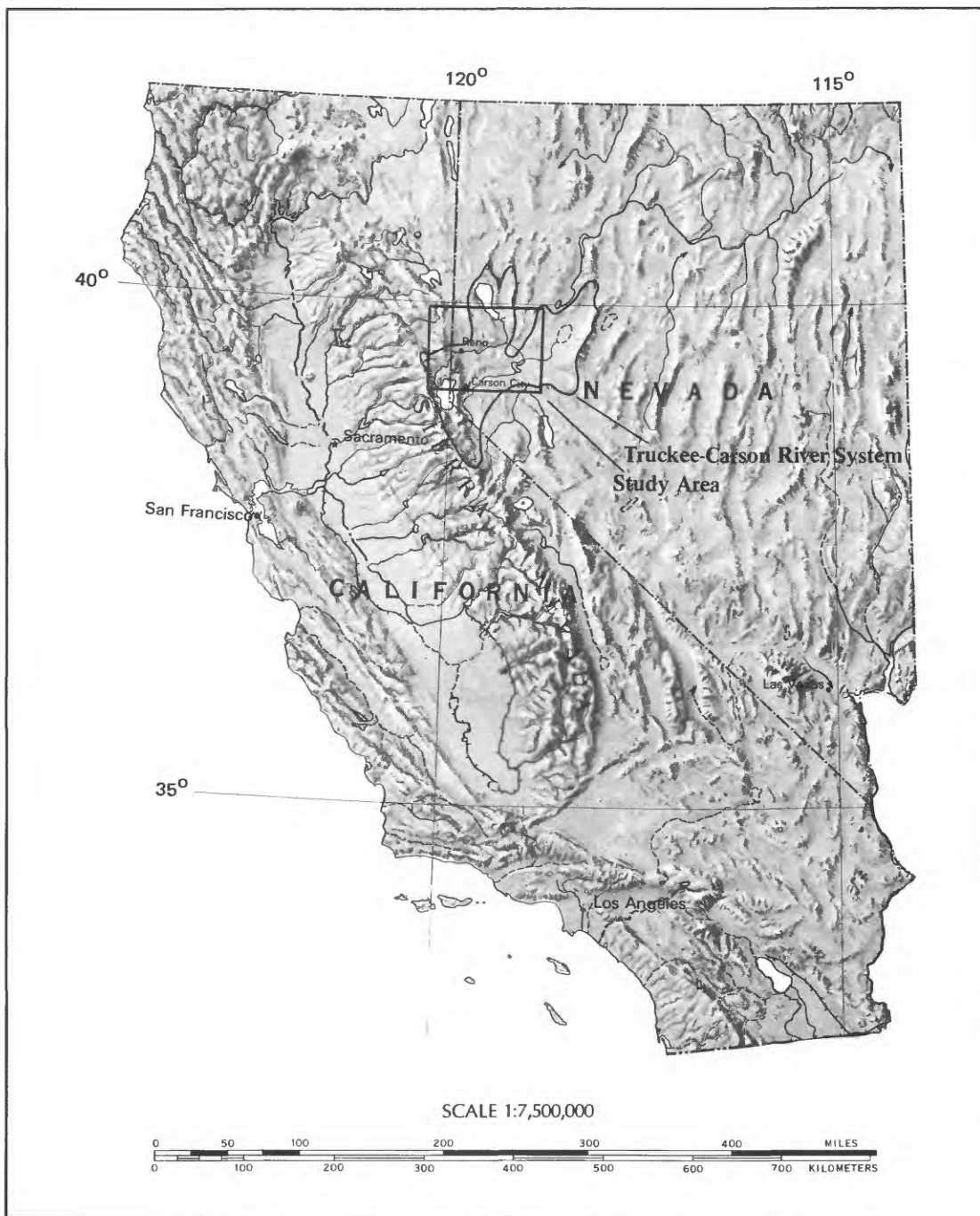
Geological Survey personnel from Nevada who aided in the field work were Rose Aquino, Freddy E. Arteaga, Leo A. Bohner, Kathy A. Bolduc, Robert E. Bostic, Sherwood B. Browning, Rita L. Carman, Michael Crambes, Cheryl Y. Edwards, George Fry, Kerry T. Garcia, Marta W. Garcia, Linda J. Giraudo, Patrick A. Glancy, Rosemary Hunter, Terry Katzer, Susan J. Mathews, Dana Mitchell, Robert N. Pennington, Alan M. Preissler, Kenneth Pringle, Valerie L. Schacher, Margaret K. Silva, Jon Sjoberg, Robert R. Squires, Jan M. Surface, Thomas B. Tucker, A. S. Van Denburgh, Stephen J. Walmsley, and David B. Wood.

Additional assistance during the synoptic studies was provided by Richard Goldfarb, Mark Henne, and Neil Ingraham of the Desert Research Institute, University of Nevada, Reno.

Special thanks and credit go to Mary O. Regan and Thomas K. Edwards of the Geological Survey in California and Idaho, respectively, whose involvement in all phases of preparation and execution of the field work was invaluable.

DESCRIPTION OF THE STUDY AREA

The study area included: (1) the 116-mile length of the Truckee River from its outlet at Lake Tahoe to Marble Bluff Dam (approximately 4 miles above its terminous at Pyramid Lake); (2) selected tributaries to the river; and (3) the 31-mile length of the Truckee Canal (figure 1).



Base from U.S. Department of Interior, Geological Survey,
National Atlas Of The United States, 1:7,500,000, 1970

FIGURE 1.--Location of the study area for field data collection.

Streamflow in the river is derived primarily from snowmelt in its headwaters on the east slope of the Sierra Nevada. Flow in the river system is largely regulated by a control structure at the outlet from Lake Tahoe and by five reservoirs on tributaries in the upper portion of the basin. Flow decreases downstream due to numerous agricultural, municipal, and power-generation diversions. The largest of these is the Truckee Canal which diverts water from the Truckee River at Derby Dam to Lahontan Reservoir in the Carson River basin for irrigation near Fallon. Agricultural diversions and returns, releases from the canal, and ground-water inflow are the major influences on streamflow in the river below Derby Dam.

Water quality generally deteriorates with increasing distance from the outlet of Lake Tahoe due to urban runoff, agricultural waste-water returns, inputs of treated municipal wastes, and ground-water inflow.

A hydrologic description of the study area is given by Brown and others (in press). For the dye and reaeration studies in this report, the Truckee River system conceptually was divided into four components: the "upper reach," from Truckee, Calif., to Vista, Nev.; the "middle reach," from the mouth of Steamboat Creek (0.13 mile above Vista) to Derby Dam; the "lower reach," from Derby Dam to Marble Bluff Dam; and the Truckee Canal.

DATA-COLLECTION SITES

The objectives of the river-quality assessment required extensive data collection within the Truckee River system. Most data were collected on the river itself, with a more limited amount obtained on selected tributaries and diversions. This report includes data from 59 sites on the Truckee River, 10 sites on selected tributaries and smaller diversions, and 9 sites on the Truckee Canal. Figure 2 (see fold-out in back) shows the approximate locations of the sites included in this report.

Table 1 provides a complete listing of the data-collection sites in downstream order. The site number assigned may be used to determine the approximate location by referring to figure 2, and it serves as an index for all sites found in the tables of hydrologic data. The eight-digit Geological Survey identification numbers in table 1 are those used for site identification in other Geological Survey reports and for data retrieval from the WATSTORE data system.

The data types listed for each site provide an overview of the information available and a guide to the appropriate table(s) where specific information may be found in this report.

TABLE 1.—Index to data-collection sites

Local designation: Based on the rectangular subdivision of lands as referenced to the Mount Diablo base line and meridian. Designations listed are abbreviations of the full designation. For example, NENW07, 15N, 17E indicates that the site is in the northeast quarter of the northwest quarter of section 7, Township 15 North, Range 17 East.

River mile: For Truckee River, mileage above the spillway at Marble Bluff Dam (a minus river mile indicates distance below the spillway); for Truckee Canal, mileage above weir and control gates to drop flume into Lahontan Reservoir.

Altitude: Expressed as feet above sea level. Altitudes reported to 0.01 foot are surveyed gage datums; all others are rounded to nearest foot. For Truckee River sites above river mile 57.0, altitudes are interpolated from largest-scale topographic maps available in 1980. For river sites below river mile 57.0, altitudes are for approximate water surfaces based on U.S. Geological Survey channel surveys, September to December 1980. For Truckee Canal sites, altitudes are for approximate water surfaces during irrigation season.

Data types: A, non-synoptic sites prior to synoptic studies (table 3); S, synoptic studies (table 4); P, phytoplankton taxa and cell counts (tables 5-8); H, study of trout-spawning habitat (table 9); T, daily measurements of water temperature (table 10); D, dye study (tables 11-23) and traveltime summaries (tables 29-32); R, reaeration study (tables 24-28) and traveltime summaries (tables 33, 34); Q, miscellaneous water-discharge and channel-geometry data (tables 35, 36).

Site number (see figure 2)	USGS identi- fication number	Site name	Site location		River mile	Altitude (feet)	Data types	Remarks
			Latitude longitude	Local designation				
				<u>Truckee River Basin Sites</u>				
1	10337500	Truckee River at Tahoe City	390959 1200836	NENW07, 15N, 17E	116.20	6,216.59	A	Sampled near cableway at USGS gage
2	10337850	Squaw Creek at Squaw Valley Road at Squaw Valley	391225 1201232	SENN28, 16N, 16E	--	6,200	A	Sampled from first road bridge upstream from Highway 89
3	10338500	Donner Creek at Donner Lake near Truckee	391925 1201400	SWNN17, 17N, 16E	--	5,930	AQ	Data type (A) collected near road bridge just upstream from USGS gage; see table 35 for site information, data type (Q)
4	10339010	Truckee River at State Highway 267 at Truckee	391936 1201100	NENE15, 17N, 16E	100.86	5,783	AD	Data type (A) collected at highway bridge; dye injections (D) from downstream side of bridge
5	10339400	Martis Creek near Truckee	391942 1200659	NENW17, 17N, 17E	--	5,740	A	Sampled at cableway near USGS gage
6	10339498	Truckee River at old U.S. Highway 40 Bridge below Truckee	392111 1200717	NESW05, 17N, 17E	96.17	5,629	ADQ	Data types (A) and (D) collected off right bank just upstream from road bridge; see table 35 for site information, data type (Q)
7	10340500	Prosser Creek below Prosser Creek Dam	392222 1200756	NWNE31, 18N, 17E	--	5,602.31	A	Sampled 100-200 feet above USGS gage
8	10340900	Truckee River at Interstate 80 above Little Truckee River	392237 1200610	SWSW28, 18N, 17E	92.35	5,509	T	Thermograph (T) on right bank bridge abutment
9	10344500	Little Truckee River below Boca Dam	392310 1200540	NENW28, 18N, 17E	--	5,500	AT	All data collected 100 feet above USGS gage
10	10344505	Truckee River at Boca bridge	392307 1200512	NENE28, 18N, 17E	91.24	5,472	AD	All data collected from downstream side of road bridge
11	10346000	Truckee River at Farad	392541 1200159	SENE12, 18N, 17E	81.89	5,153.21	PT	Data type (P) collected from cableway below USGS gage; thermograph (T) on left bank 400 feet above gage
12	--	Truckee River below Farad	392600 1200133	SWSW07, 18N, 18E	81.28	5,129	D	Sampled off left bank 0.80 mile below USGS gage in 1979 and 0.61 mile below gage in 1980
13	10347050	Truckee River at Crystal Peak Park at Verdi	393050 1195942	SENE18, 19N, 18E	74.30	4,852	SP	Sampled from old U.S. Highway 40 bridge 0.45 mile above State fish hatchery
14	10347336	Truckee River near Verdi	393110 1195819	NENE17, 19N, 18E	72.00	4,794	HT	Data type (H) collected near picnic area about 1,000 feet below old U.S. Highway 40 bridge near Viking Metals Plant; thermograph (T) on left bank bridge abutment
14A	10347337	Truckee River intragravel site near Verdi	393110 1195819	NENE17, 19N, 18E	72.00	4,794	H	Sampled near picnic area about 1,000 feet below old U.S. Highway 40 bridge
15	10347690	Truckee River at Mayberry Drive	393024 1195317	SWSE18, 19N, 19E	65.70	4,611	SPDQ	Data types (S), (P), and (D) collected from downstream side of bridge; see table 35 for site information, data type (Q)

TABLE 1.--Index to data-collection sites--Continued

Site number (see figure 2)	USGS identifi- cation number	Site name	Site location			River mile	Altitude (feet)	Data types	Remarks
			Latitude longitude	Local designation					
Truckee River Basin Sites--Continued									
16	10348200	Truckee River near Sparks	393103 1194427	NWNE16, 19N, 20E	56.12	4,384	SPHTDQ	Data types (S) and (P) collected from McCarran Blvd. bridge 150 feet below USGS gage; data type (H) collected 0.54 mile below bridge; data types (T) and (D) collected at gage; data type (Q) location--see table 35	
16A	10348201	Truckee River intragravel site near Sparks	393048 1194356	SWNW15, 19N, 20E	55.58	4,379	H	Sampled 0.54 mile below McCarran Blvd. bridge	
17	--	Truckee River at University farms	393052 1194320	SWNE15, 19N, 20E	54.85	4,375	Q	Measurement location--see table 35	
18	--	Truckee River above North Truckee drain	393113 1194237	SWSW11, 19N, 20E	54.01	4,372	Q	Measurement location--see table 35	
19	10348300	North Truckee drain at Kleppe Lane near Sparks	393130 1194218	NESW11, 19N, 20E	--	4,375	SPQ	Data types (S) and (P) collected from Kleppe Lane bridge 0.26 mile above confluence with Truckee River; data type (Q) location--see table 35	
20	10349980	Steamboat Creek at Kimlick Lane near Reno	393047 1194241	SWNW14, 19N, 20E	--	4,375	SPQ	Data types (S) and (P) collected from road bridge 0.75 mile above confluence with Truckee River; data type (Q) location--see table 35	
21	10349989	Reno-Sparks Sewage Treatment Plant outfall near Reno	393107 1194213	NWNE14, 19N, 20E	--	4,374	SD	Samples collected and dye injected at outfall on Steamboat Creek 675 feet above confluence with Truckee River	
22	10350000	Truckee River at Vista	393104 1194059	NWNE13, 19N, 20E	52.23	4,368.59	SPD	Data types (S) and (P) collected from cableway at USGS gage; data type (D) collected off left bank at gage	
23	10350050	Truckee River at Lockwood	393036 1193852	SESE17, 19N, 21E	50.05	4,345	SPTDRQ	Data types (S), (P), (D), and (R) collected from bridge at Lockwood; thermograph (T) on left bank approximately 1,000 feet below bridge; data type (Q) location--see table 35	
24	--	Truckee River at upper bridge near Mustang	393048 1193708	NESW15, 19N, 21E	48.25	4,316	RQ	Data type (R) collected from upstream bridge near Mustang Ranch; data type (Q) location--see table 35	
25	10350157	Truckee River at McCarran diversion dam	393158 1193553	NENW11, 19N, 21E	46.40	4,305	R	Sampled off left bank immediately above dam	
26	--	Truckee River below McCarran diversion dam	393200 1193550	NWNE11, 19N, 21E	46.35	4,300	R	Sampled approximately 250 feet below dam	
27	10350200	Truckee River at Patrick	393249 1193459	SWNW01, 19N, 21E	44.92	4,279	SPDRQ	Data types (S), (P), (D), and (R) collected from road bridge on McCarran Ranch; data type (Q) location--see table 35	
28	--	Truckee River at McCarran Ranch	393249 1193435	NWNE01, 19N, 21E	44.58	4,275	Q	Measurement location--see table 35	
29	10350345	Truckee River at Hill diversion dam	393346 1193226	NENW32, 20N, 22E	42.02	4,258	R	Near gravel plant above Tracy; sampled off left bank immediately above dam	
30	--	Truckee River below Hill diversion dam	393344 1193225	NENW32, 20N, 22E	42.00	4,254	RQ	Data type (R) collected approximately 100 feet below dam; data type (Q) location--see table 35	
31	--	Truckee River at Tracy diversion dam	393353 1193120	NENW33, 20N, 22E	40.76	4,247	RQ	About 700 feet upstream from Tracy Power Plant; data type (R) collected off left bank immediately above dam; data type (Q) location--see table 35	
32	--	Truckee River below Tracy diversion dam	393353 1193115	NENW33, 20N, 22E	40.73	4,244	R	Sampled approximately 150 feet below dam	

TABLE 1.—Index to data-collection sites—Continued

Site number (see figure 2)	USGS identi- fication number	Site name	Site location		River mile	Altitude (feet)	Data types	Remarks
			Latitude longitude	Local designation				
Truckee River Basin Sites--Continued								
33	10350400	Truckee River below Tracy	393352 1193112	NWNE33, 20N, 22E	40.62	4,243	SPDR	All data collected from road bridge at Tracy Power Plant
34	10350500	Truckee River at Clark	393354 1192909	SESW26, 20N, 22E	38.60	4,229	SPRQ	Data types (S), (P), and (R) collected off road bridge to Eagle Picher Plant; data type (Q) location--see table 35
35	--	Truckee River below Clark	393419 1192810	SWNW25, 20N, 22E	37.21	4,213	Q	Measurement location--see table 35
36	10351000	Truckee River at Derby Dam	393508 1192654	NESW19, 20N, 23E	34.88	4,204	SPTDR	All data collected off upstream side of dam near center gates
37	10351600	Truckee River below Derby Dam	393507 1192628	NWSE19, 20N, 23E	34.49	4,187	SPQ	Data types (S) and (P) collected at USGS gage 0.39 mile below Derby Dam; data type (Q) location--see table 35
38	--	Truckee River above Orchard	393511 1192339	NWSW22, 20N, 23E	31.81	4,148	Q	Measurement location--see table 35
39	10351619	Truckee River at Painted Rock bridge	393528 1192159	NWNE23, 20N, 23E	29.97	4,117	SPDQ	Data types (S), (P), and (D) collected from road bridge at Painted Rock; data type (Q) location--see table 35
40	--	Truckee River below Gregory-Monte diversion dam	393553 1192034	SESE13, 20N, 23E	28.50	4,096	Q	Measurement location--see table 35
41	--	Truckee River below Pierson diversion dam	393648 1191816	NESE08, 20N, 24E	25.93	4,071	Q	Measurement location--see table 35
42	--	Truckee River above Proctor diversion dam	393739 1191656	NWSW03, 20N, 24E	24.12	4,053	Q	Measurement location--see table 35
43	10351646	Herman Ditch return at Wadsworth	393755 1191658	SWNW03, 20N, 24E	--	4,050	SP	Irrigation return flow sampled 50 feet above confluence with Truckee River approximately 150 feet above old U.S. Highway 40 bridge
44	10351648	Truckee River at old U.S. Highway 40 bridge at Wadsworth	393755 1191654	SWNW03, 20N, 24E	23.69	4,047	SPDR	Data types (S) and (P) collected from highway bridge; data type (D) collected 25 feet below bridge; data type (R) collected at railroad bridge approximately 100 feet below highway bridge
45	10351650	Truckee River at Wadsworth	393823 1191655	SWSW34, 21N, 24E	23.11	4,037.90	T	Thermograph (T) on right bank at USGS gage
46	--	Truckee River at Fellnagle diversion dam at Wadsworth	393838 1191727	SWNE33, 21N, 24E	22.55	4,041	R	0.56 mile below USGS gage at Wadsworth; sampled off left bank immediately above dam
47	--	Truckee River below Fellnagle diversion dam at Wadsworth	393837 1191725	NWSE33, 21N, 24E	22.53	4,038	RQ	Data type (R) collected approximately 100 feet below dam; data type (Q) location--see table 35
48	--	Truckee River below Cerosola Ranch near Wadsworth	393927 1191640	NWSW27, 21N, 24E	21.31	4,024	Q	Measurement location--see table 35
49	--	Truckee River at S Bar S diversion dam	394010 1191623	SWSE22, 21N, 24E	19.84	4,013	RQ	Data type (R) collected off left bank immediately above S Bar S (Gardella) diversion dam; data type (Q) location--see table 35
50	--	Truckee River below S Bar S diversion dam	394027 1191615	SWNE22, 21N, 24E	19.54	4,007	Q	Measurement location--see table 35
51	--	Truckee River at S Bar S Ranch	394129 1191707	SENE16, 21N, 24E	17.82	3,990	DQ	Data type (D) collected off left bank at irrigation pump; data type (Q) location--see table 35
52	10351684	Truckee River below S Bar S Ranch	394146 1191759	SWSW09, 21N, 24E	16.75	3,983	HQ	Data type (H) collected 0.25 mile below S Bar S (Gardella) diversion return to river; data type (Q) location--see table 35

TABLE 1.--Index to data-collection sites--Continued

Site number (see figure 2)	USGS identi- fication number	Site name	Site location		River mile	Altitude (feet)	Data types	Remarks
			Latitude longitude	Local designation				
Truckee River Basin Sites--Continued								
52A	10351685	Truckee River intragravel site below S Bar S Ranch	394146 1191759	SWSW09, 21N, 24E	16.75	3,983	H	Sampled 0.25 mile below S Bar S (Gardella) diversion return to river
53	--	Truckee River at river mile 15.8	394223 1191819	NENE08, 21N, 24E	15.82	3,976	R	Sampled off left bank
54	--	Truckee River at river mile 15.4	394239 1191835	SWSE05, 21N, 24E	15.43	3,947	Q	Measurement location--see table 35
55	--	Truckee River at river mile 13.8	394345 1191908	NWSW32, 22N, 24E	13.79	3,964	Q	Measurement location--see table 35
56	10351690	Truckee River at Dead Ox Wash near Nixon	394414 1191924	NENE31, 22N, 24E	13.18	3,960	SPHDRQ	Data types (S), (P), (D), and (R) collected near lone cottonwood tree on left bank 1.12 miles below Numana Hatchery; data type (H) collected 0.27 mile farther downstream; data type (Q) location--see table 35
56A	10351691	Truckee River intragravel site at Dead Ox Wash near Nixon	394414 1191924	NENE31, 22N, 24E	13.18	3,960	H	Sampled at same location as for site 56
57	--	Truckee River at river mile 12.0	394459 1191939	NWNE30, 22N, 24E	11.99	3,954	Q	Measurement location--see table 35
58	--	Truckee River at river mile 11.0	394541 1192001	SENW19, 22N, 24E	11.02	3,948	Q	Measurement location--see table 35
59	10351725	Truckee River at Numana Dam near Nixon	394723 1192054	SWNE12, 22N, 23E	8.21	3,920	DQ	Data type (D) collected off left bank approximately 500 feet below dam; data type (Q) location--see table 35
60	--	Truckee River at Little Nixon bridge	394828 1192047	SWNE01, 22N, 23E	5.73	3,899	Q	Measurement location--see table 35
61	--	Truckee River below Little Nixon	394854 1192047	SWSE36, 23N, 23E	5.09	3,894	Q	Measurement location--see table 35
62	10351750	Truckee River at State Highway 447 at Nixon	394945 1192136	SESE26, 23N, 23E	3.22	3,877	SPDQ	Data types (S), (P), and (D) collected from upstream side of highway bridge; data type (Q) location--see table 35
63	10351775	Truckee River at Marble Bluff Dam	395120 1192332	SESW15, 23N, 23E	.00	3,855	SPTD	All data collected off left or right wing wall of dam, depending on flow conditions
64	10351778	Truckee River fishway at Marble Bluff Dam	395119 1192335	SWSW15, 23N, 23E	-.07	3,845	PQ	Data type (P) collected from road bridge 375 feet below diversion from Truckee River; data type (Q) location--see table 35
65	10351780	Truckee River below Marble Bluff Dam	395111 1192344	NWNW22, 23N, 23E	-.05	3,835	DQ	Data type (D) collected off left bank 275 feet below dam; data type (Q) location--see table 35
Truckee Canal Sites								
66	--	Truckee Canal at Derby Dam	393511 1192655	NWSW19, 20N, 23E	31.42	4,201	DQ	Data type (D) collected from downstream side of canal gates; data type (Q) location--see table 36
67	--	Truckee Canal at Pyramid Check Dam near Wadsworth	393538 1192047	SWSE13, 20N, 23E	25.38	4,196	D	Sampled at upstream side of check dam
68	10351300	Truckee Canal auxiliary gage near Wadsworth	393624 1191815	NENE17, 20N, 24E	22.54	4,190	D	Sampled at gage below end of tunnel #3
69	10351320	Truckee Canal at U.S. Highway 95A near Fernley	393528 1191457	NENE23, 20N, 24E	18.23	4,190	SPDQ	Data types (S), (P) and (D) collected off left bank at diversion gate TC-4, approximately 150 feet above highway bridge. Exceptions were dye samples in 1981, taken from upstream side of Fernley Check Dam (0.21 mile below bridge). Data type (Q) location--see table 36
70	--	Truckee Canal at Anderson Check Dam near Fernley	393454 1191154	SWSE20, 20N, 25E	15.07	4,186	DQ	Data type (D) collected from upstream side of check dam; data type (Q) location--see table 36

TABLE 1.--Index to data-collection sites--Continued

Site number (see figure 2)	USGS identi- fication number	Site name	Site location		River mile	Altitude (feet)	Data types	Remarks
			Latitude longitude	Local designation				
Truckee Canal Sites--Continued								
71	10351367	Truckee Canal at Allendale Check Dam near Fernley	393447 1190739	SESW24, 20N, 25E	11.07	4,181	SPDQ	Data types (S), (P), and (D) collected from upstream side of check dam; data type (Q) location--see table 36
72	--	Truckee Canal at Mason Check Dam near Hazen	393221 1190426	NESW04, 19N, 26E	6.39	4,179	DQ	Data type (D) collected from footbridge at check dam; data type (Q) location--see table 36
73	--	Truckee Canal at Bango Check Dam near Hazen	393014 1190241	NENE22, 19N, 26E	3.25	4,177	PDQ	Data type (P) collected from footbridge 1.23 miles above check dam; data type (D) collected from upstream side of check dam; data type (Q) location--see table 36
74	10351590	Truckee Canal at U.S. Highway 50 above Lahontan Reservoir	392809 1190400	SENE33, 19N, 26E	0.44	4,170	SPTDQ	Data types (S) and (P) collected from downstream side of highway bridge at high flows and at rock riffle 150 feet downstream at low flows; thermograph (T) on right bank approximately 300 feet below bridge; data type (D) collected under bridge; data type (Q) location--see table 36

METHODS, MATERIALS, AND LABORATORY ANALYSES

The methods and the materials used for data-collection activities are summarized in table 2.

Suspended-sediment and particle-size determinations were made at the Geological Survey Sediment Laboratory in Sacramento, Calif. Most of the chemical analyses of water samples were determined at the Geological Survey Central Laboratory in Arvada, Colo. BOD, turbidity, and Rhodamine WT dye analyses, however, were determined by Geological Survey personnel in the field or at the laboratory in Carson City. Phytoplankton identifications and cell counts were determined by Susswasser Laboratory, Paso Robles, Calif.; all other biological analyses were made at the Geological Survey Central Laboratory in Atlanta, Ga.

More detailed discussions of the individual data-collection activities are given in the following sections.

Data Collection Prior to the Synoptic Studies

Immediately before the synoptic studies of June and August 1980, water-quality and water-quantity data were collected throughout the river system to provide both background information and an indication of whether steady-state conditions prevailed during the synoptic investigations. All methods employed were consistent with those used in the synoptics.

Antecedent data were collected only during the 1980 sampling program, and included information for nine nonsynoptic sites in the "upper reach." Analyses from the nonsynoptic sites are presented in table 3, whereas the data from antecedent sampling at regular synoptic sites are included with the diel data for those stations in table 4.

Synoptic Studies

The synoptic data sets (table 4) were collected to assist in calibration and verification of a water-quality transport model. The synoptic studies were made during two seasons: (1) Spring high flows, when water quality is critical to fishery interests, and (2) late summer low flows, when extremes in water quality are likely to occur. Sampling consisted of diel measurements at 17 to 22 sites in June and August of 1979 and 1980. Cross-sectional measurements of dye concentrations, determined during the dye studies, and a reconnaissance survey of water temperature, specific conductance, and dissolved oxygen in May 1980 indicated that grab samples near the centroid of flow were sufficiently representative of the total flow at each station for dissolved water-quality characteristics.

All water samples were chilled to 4°C or less and placed in the dark immediately after collection. BOD determinations, and filtration of water samples that required such treatment, were started at a centralized field laboratory less than 6 hours after sample collection. Samples to be analyzed by the Geological Survey Central Laboratories were shipped within 24 hours of collection.

TABLE 2.--Methods and materials used for water-data acquisition

Determination	Collection method ^a	Sample treatment and preservation	Analytical method
<u>Field measurements</u>			
Discharge	--	--	Rating curve or current-meter measurement; see Corbett and others (1943)
Temperature	1	--	Calibrated mercury thermometer or electronic meter with thermistor probe
Dissolved oxygen (DO)	1	--	Modified Winkler method or dissolved-oxygen meter calibrated onsite using air-calibration chamber in water (Skougstad and others, 1979)
Specific conductance	1	None	Standard meters and probes
pH	1	None	Standard meters and probes
Alkalinity	1	None	Electrometric titration with standardized sulfuric acid solution using standard meters and probes
<u>Laboratory measurements</u>			
		--	Methods according to Skougstad and others (1979) except where noted
Turbidity	2	None	Nephelometric turbidimeter
Dissolved solids	2	Field filtration through pre-rinsed 0.45- μ m pore-size membrane filter	Gravimetric (evaporation at 180°C)
Nitrogen and phosphorus species		Prior to June 1980, chilled to $\leq 4^{\circ}\text{C}$; June-August 1980, added HgCl_2 and chilled to $\leq 4^{\circ}\text{C}$	--
Total	2	Same as above	--
Dissolved	2	Field filtration through pre-rinsed 0.45- μ m pore-size membrane filter and treated as above	--
Total in bottom material	3	Chilled to $\leq 4^{\circ}\text{C}$	--
Carbon		Chilled to $\leq 4^{\circ}\text{C}$; glass container for water samples, plastic container for bottom material	Goerlitz and Brown, 1972, pages 4-6
Total organic	2	Same as above	--
Total organic in bottom material	--	--	Calculated difference between inorganic and organic-plus-inorganic determinations
Total inorganic in bottom material	3	Same as above	--
Total organic plus inorganic in bottom material	3	Same as above	--
Trace elements		Acidified to pH <2 with HNO_3 in acid-rinsed plastic bottle (except bottom-material samples)	--
Total	4	Same as above	--
Suspended	--	--	Calculated difference between total and dissolved determinations
Dissolved	4	Field filtration through pre-rinsed 0.45- μ m pore-size membrane filter and treated as above	--
Total in bottom material	3	Chilled to $\leq 4^{\circ}\text{C}$ in plastic container	--
Sediment			Guy, 1969, pages 11, 12, 47-51
Suspended, concentration	4	None	Gravimetric (evaporation at 110°C)
Bed material, size	3	None	Sieves
Biochemical oxygen demand (BOD)	2	Standard BOD bottle (300 mL) stored in dark at $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$	Stamer and others, 1979; John K. Stamer, U.S. Geological Survey, written communication, 1979; Jon O. Nowlin, U.S. Geological Survey, written communication, 1980

TABLE 2.—Methods and materials used for water-data acquisition--Continued

Determination	Collection method ^a	Sample treatment and preservation	Analytical method
Biological		--	Greeson and others, 1977
Chlorophyll	2	Laboratory filtration through glass fiber filter, filter frozen prior to analysis	--
Seston	2	Same as above	--
Algal growth potential	2	Laboratory filtration through pre-rinsed 0.22-um pore-size membrane filter and chilled to $\leq 4^{\circ}\text{C}$	--
Phytoplankton taxa and cell counts	2	Added 1 mL Lugol's Solution per 100 mL sample	Taxa by inverted-microscope method; filamentous algae cell-counts determined by dividing average filament length by length of component cell
Other substances			
Rhodamine WT	5	Glass container, chilled and stored in dark	Wilson, 1968
Ethylene	6	Formalin solution added in glass container with no air space and chilled to $\leq 4^{\circ}\text{C}$	Schultz and others, 1976

^a Collection methods:

1. Onsite determination. Samples for modified Winkler analysis of dissolved oxygen were transferred from standard DO and BOD samplers (American Public Health Association, 1980, pages 389, 934) to 300-mL BOD bottles using submerged orifices to prevent reaeration of sample. Exceptions were in June 1979, when synoptic measurements of pH and dissolved oxygen ("fixed" onsite) were made in a centralized field laboratory.

2. Grab sample collected at mid-depth near the centroid of flow using standard DO and BOD samplers (American Public Health Association, 1980, pages 389, 934). Exceptions were turbidity, nitrogen species, and phosphorus species for analysis in the trout spawning study, which were discharge-integrated samples or collected from intragravel pipes. Samples for BOD analysis were transferred to standard 300-mL BOD bottles using submerged orifices to prevent reaeration.

3. Sample collected using McNeil-Ahneil sampler (Ray J. Hoffman, U.S. Geological Survey, written communication, 1984).

4. Discharge-integrated sample using standard suspended-sediment techniques (Guy and Norman, 1970).

5. Samples collected near centroid of flow using one or more of: pumped flow-through apparatus, grab sample, or automatic sampler.

6. Grab sample at mid-depth near centroid of flow using 60-mL version of a standard DO sampler (American Public Health Association, 1980, page 389). Ethylene sample bottles were capped while submerged in sampler.

Phytoplankton Taxa and Cell Counts

Water samples for phytoplankton analyses were collected to provide an indication of primary productivity in the river system, and to aid in the interpretation of data on suspended chlorophyll- a , which were to be incorporated into the water-quality model. A preservative was added to the samples immediately after collection. Organisms were identified and counted, to the species level whenever possible, by using appropriate taxonomic keys. The results of the phytoplankton analyses are presented in tables 5-8.

Trout-Spawning Habitat

In February-March 1980, an intensive investigation at selected sites in the Truckee River was made in cooperation with the U.S. Fish and Wildlife Service to evaluate the suitability of the river as a spawning habitat for the Lahontan cutthroat trout. Surface water, streambed material, and intragravel water were analyzed in an attempt to answer fundamental questions concerning the quality of the river in relation to the survival of incubating salmonid eggs. The data collected during the egg study are presented in table 9.

Sampling methods, including the use of an intragravel sampler developed for this study, are described by Hoffman and Scopettone (1984). Further details regarding the sampler will be presented in a forthcoming report (Ray J. Hoffman, U.S. Geological Survey, written communication, 1984).

Daily Water Temperatures

Digital thermographs were installed at 10 locations throughout the river system to provide information for both the spawning-habitat study and the water-quality model. Daily maximum, minimum, and mean water temperatures for these sites are listed in table 10. Other daily temperature information from regularly maintained Geological Survey thermographs on the Truckee River are not included in this report but may be found in the annual water-data reports for Nevada (U.S. Geological Survey, 1980, 1982).

Dye Studies

The data in tables 11-23 were collected during 12 dye studies made from May 1979 through September 1980 to define travel times under various flow conditions. The information in tables 16 and 19 was collected during extreme high flows that occurred after warm rains fell on the upper basin snowpack. Data for the Truckee Canal in table 21 are for a downstream continuation of a dye study initiated at the Reno-Sparks Sewage Treatment Plant in the "middle reach" (table 14). Two supplemental dye studies were done on the Truckee Canal in October 1981 to further define travel time characteristics for high flows greater than 500 ft³/s. Summary data for these supplemental studies are included in table 32; however, individual concentrations such as those listed for earlier studies in tables 11-23 are not available because the fluorometer was not calibrated to absolute concentrations of Rhodamine WT dye for the 1981 studies.

Instantaneous injections of concentrated Rhodamine WT solution (160 grams of dye per liter of solution) were made with a tipping bucket near the centroid of flow. In tables 11-23, the dye volumes injected are reported to the nearest half liter and streamflows are reported for the period when dye was present, on the basis of (1) data from instantaneous measurements and (2) mean discharges derived from nearby gages.

Sample times are corrected for any lag time through a flow-through apparatus when appropriate. All dye concentrations reported were determined after first subtracting any background fluorescence; the determinations were generally made within 1 week of collection. Beginning in January 1980, acquisition of a fluorometer with increased sensitivity allowed laboratory determination of concentrations to the nearest 0.1 microgram per liter.

Reaeration Studies

Five gas-tracer reaeration studies were made on the Truckee River to obtain data for water-quality modeling. Ethylene and Rhodamine WT concentrations from these studies are listed in tables 24-28.

Except for injection techniques, dye data for the reaeration studies were collected and analyzed using the methods described above. For the reaeration studies, however, dye was injected continuously at a constant rate over a specific length of time. Concurrently, ethylene was injected into the river using flat, passive-plate diffusers. Gas sampling was performed according to methods described by Rathbun and Grant (1978), with a formalin preservative added by syringe through Teflon¹ lined septums on the gas-sample bottles. Determinations of ethylene concentrations were generally made within 4-6 weeks of sample collection.

Discharges and water temperatures shown in tables 24-28 are based on means of instantaneous measurements, or extrapolations and interpolations from nearby gages or thermographs.

Summaries of Traveltime Data

Tables 29-32 summarize traveltime information determined from the 14 dye studies, and tables 33 and 34 summarize traveltime information based on the five reaeration studies. The cumulative traveltimes since injection, the durations of dye-cloud presence, and the peak and average dye concentrations were derived from graphical analyses of the raw data according to the methods described by Kilpatrick and others (1970).

¹ The use of trade names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

Discharge Measurements and Associated
Channel-Geometry Data at Miscellaneous Sites

Listed in tables 35 and 36 are discharges and associated channel-geometry measurements for 36 sites on the Truckee River, 3 on tributaries to the river, and 7 sites on the Truckee Canal. These measurements were made to obtain discharge data in support of the water-quality, traveltime, and reaeration studies and to obtain channel-geometry data for the mathematical models.

River miles, altitudes, and cross-section locations given in tables 35 and 36 are specific to the cross sections used for the discharge and channel-geometry measurements, and thus may differ from the data in table 1. Cross sections used for stream gaging are commonly selected at the discretion of the hydrographer and may vary from measurement to measurement at the same general location; therefore, the channel-geometry data for a gaging station may not be directly comparable between measurements.

To further define channel-geometry characteristics for the Truckee River below river mile 56.00, a number of fixed cross sections were established for discharge measurements. These sites are noted in the remarks for table 35.

Not included in the tables are the routine stream-discharge measurements performed at Geological Survey continual-record gaging stations. These data were collected at approximately monthly intervals and are available at Geological Survey offices in Carson City, Nev., and Sacramento, Calif.

HYDROLOGIC DATA

TABLE 3.--Data from non-synoptic sites prior to
synoptic studies of June and August 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	TUR- BID- ITY (NTU)
Site 1 - TRUCKEE RIVER AT TAHOE CITY											
JUN, 1980											
02...	0900	69	10.5	600	9.0	8.1	89	104	52	8.2	---
AUG											
08...	0845	335	---	606	18.5	7.8	104	87	58	8.2	.95
Site 2 - SQUAW CREEK AT SQUAW VALLEY ROAD AT SQUAW VALLEY											
AUG, 1980											
08...	1000	---	---	606	12.0	7.8	103	60	43	8.6	3.5
Site 3 - DONNER CREEK AT DONNER LAKE NEAR TRUCKEE											
JUN, 1980											
02...	1100	67	9.5	607	11.0	8.4	95	84	60	7.1	---
AUG											
08...	1105	2.0	23.5	613	20.0	7.3	100	80	47	8.1	.70
Site 4 - TRUCKEE RIVER AT STATE HIGHWAY 267 AT TRUCKEE											
JUN, 1980											
02...	1400	---	13.0	609	9.0	8.8	95	65	47	7.1	---
AUG											
08...	1245	---	---	607	18.0	7.7	101	89	61	8.6	2.7
Site 5 - MARTIS CREEK NEAR TRUCKEE											
JUN, 1980											
02...	1215	91	10.0	608	12.0	7.1	83	90	73	7.2	---
Site 6 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE BELOW TRUCKEE											
JUN, 1980											
02...	1445	---	9.0	613	9.0	7.7	83	82	59	8.1	---
AUG											
08...	1330	---	---	619	18.5	7.6	100	103	66	7.8	---
Site 7 - PROSSER CREEK BELOW PROSSER CREEK DAM											
JUN, 1980											
02...	1600	550	13.0	615	9.0	8.5	90	51	46	8.1	---
AUG											
08...	1455	12	---	620	19.2	9.8	129	45	37	9.3	---
Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM											
JUN, 1980											
02...	1655	852	9.5	617	8.0	9.4	98	65	48	7.3	---
AUG											
08...	1600	96	30.0	622	11.5	8.9	99	54	43	7.4	---
Site 10 - TRUCKEE RIVER AT BOCA BRIDGE											
JUN, 1980											
02...	1700	---	9.5	617	8.0	9.4	98	64	74	7.2	7.3
AUG											
08...	1645	---	28.0	622	18.5	7.7	101	91	60	7.6	---

TABLE 3.--Data from non-synoptic sites prior to
synoptic studies of June and August 1980--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
Site 1 - TRUCKEE RIVER AT TAHOE CITY										
JUN, 1980										
02...	0900	.52	.07	.45	.02	.01	.01	.54	.04	—
AUG										
08...	0845	.33	.06	.27	.00	.00	.00	.33	.00	.03
Site 2 - SQUAW CREEK AT SQUAW VALLEY ROAD AT SQUAW VALLEY										
AUG, 1980										
08...	1000	.19	.04	.15	.00	.00	.00	.19	.01	.03
Site 3 - DONNER CREEK AT DONNER LAKE NEAR TRUCKEE										
JUN, 1980										
02...	1100	.98	.00	.98	.01	.00	.01	.99	.01	.01
AUG										
08...	1105	.40	.05	.35	.00	.00	.00	.40	.00	.03
Site 4 - TRUCKEE RIVER AT STATE HIGHWAY 267 AT TRUCKEE										
JUN, 1980										
02...	1400	.32	.09	.23	.03	.01	.02	.35	.00	.01
AUG										
08...	1245	.42	.03	.39	.00	.00	.00	.42	.00	.03
Site 5 - MARTIS CREEK NEAR TRUCKEE										
JUN, 1980										
02...	1215	.89	.04	.85	.04	.01	.03	.93	.04	.08
Site 6 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE BELOW TRUCKEE										
JUN, 1980										
02...	1445	.57	.00	.57	.04	.01	.03	.61	.04	—
AUG										
08...	1330	.27	.08	.19	.05	.00	.05	.32	.01	.03
Site 7 - PROSSER CREEK BELOW PROSSER CREEK DAM										
JUN, 1980										
02...	1600	.32	.00	.32	.01	.01	.00	.33	.05	—
AUG										
08...	1455	.26	.04	.22	.01	.00	.01	.27	.01	.03
Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM										
JUN, 1980										
02...	1655	.37	.04	.33	.07	.01	.06	.44	.01	.03
AUG										
08...	1600	.26	.06	.20	.00	.00	.00	.26	.01	.03
Site 10 - TRUCKEE RIVER AT BOCA BRIDGE										
AUG, 1980										
08...	1645	.45	.04	.41	.02	.00	.02	.47	.01	.03

TABLE 3.—Data from non-synoptic sites prior to
synoptic studies of June and August 1980—Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
Site 1 - TRUCKEE RIVER AT TAHOE CITY										
JUN, 1980										
02...	0900	.46	.08	.38	.03	.01	.02	.49	.00	.01
AUG										
08...	0845	--	.08	--	.00	.00	.00	--	.00	.03
Site 2 - SQUAW CREEK AT SQUAW VALLEY ROAD AT SQUAW VALLEY										
AUG, 1980										
08...	1000	--	.03	--	.02	.01	.01	--	.01	.04
Site 3 - DONNER CREEK AT DONNER LAKE NEAR TRUCKEE										
JUN, 1980										
02...	1100	1.0	.00	1.0	--	.00	--	--	.01	.01
AUG										
08...	1105	--	.05	--	.00	.00	.00	--	.00	.03
Site 4 - TRUCKEE RIVER AT STATE HIGHWAY 267 AT TRUCKEE										
AUG, 1980										
08...	1245	.43	.04	.39	.01	.01	.00	.44	.02	.03
Site 6 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE BELOW TRUCKEE										
AUG, 1980										
08...	1330	--	.03	--	.03	.01	.02	--	.01	.03
Site 7 - PROSSER CREEK BELOW PROSSER CREEK DAM										
AUG, 1980										
08...	1455	--	.03	--	.02	.01	.01	--	.00	.03
Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM										
AUG, 1980										
08...	1600	--	.06	--	.01	.01	.00	--	--	.03
Site 10 - TRUCKEE RIVER AT BOCA BRIDGE										
JUN, 1980										
02...	1700	.63	.13	.50	--	.01	--	--	--	.02
AUG										
08...	1645	.40	.03	.37	.02	.01	.01	.42	.00	.03

TABLE 3.--Data from non-synoptic sites prior to
synoptic studies of June and August 1980--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5 DAY (MG/L)	20 DAY (MG/L)	ULTIMATE (MG/L)	DECAY RATE	DECAY RATE	TOTAL BOD			NITROGENOUS BOD	
						BASE E, PER DAY AT 20°C	BASE 10, PER DAY AT 20°C	5 DAY (MG/L)	20 DAY (MG/L)	ULTIMATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTIMATE (MG/L)
Site 1 - TRUCKEE RIVER AT TAHOE CITY												
JUN, 1980												
02...	0900	1.0	.4	1.3	2.0	.05	.02	--	--	4.2	--	2.2
AUG												
08...	0845	--	--	--	--	--	--	.4	1.0	1.5	--	--
Site 2 - SQUAW CREEK AT SQUAW VALLEY ROAD AT SQUAW VALLEY												
AUG, 1980												
08...	1000	--	.4	1.4	2.7	.04	.02	.3	1.1	3.2	--	--
Site 3 - DONNER CREEK AT DONNER LAKE NEAR TRUCKEE												
JUN, 1980												
02...	1100	.22	.9	2.0	2.2	.11	.05	.8	1.8	2.3	--	--
Site 4 - TRUCKEE RIVER AT STATE HIGHWAY 267 AT TRUCKEE												
JUN, 1980												
02...	1400	.26	1.0	1.9	2.0	.15	.06	.6	1.2	1.4	--	--
Site 5 - MARTIS CREEK NEAR TRUCKEE												
JUN, 1980												
02...	1215	--	1.4	2.7	3.0	.13	.06	1.6	2.9	3.1	--	--
Site 6 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE BELOW TRUCKEE												
JUN, 1980												
02...	1445	.82	1.5	2.2	2.2	.23	.10	.6	1.4	1.6	--	--
AUG												
08...	1330	.14	.6	1.7	2.5	.06	.03	.5	1.6	2.9	--	--
Site 7 - PROSSER CREEK BELOW PROSSER CREEK DAM												
JUN, 1980												
02...	1600	1.5	.5	.8	.9	.16	.07	.5	1.1	1.2	--	--
AUG												
08...	1455	--	.8	2.0	2.5	.08	.03	1.0	2.6	3.4	--	--
Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM												
JUN, 1980												
02...	1655	.62	.6	1.7	2.3	.07	.03	--	--	3.5	--	1.2
AUG												
08...	1600	--	--	--	--	--	--	.5	.9	1.0	--	--
Site 10 - TRUCKEE RIVER AT BOCA BRIDGE												
JUN, 1980												
02...	1700	.61	.8	1.9	2.4	.09	.04	.8	1.5	1.6	--	--
AUG												
08...	1645	--	.5	1.4	2.3	.05	.02	--	--	--	--	--

TABLE 3.--Data from non-synoptic sites prior to
synoptic studies of June and August 1980--Continued

DATE	TIME	CHLORO- PHYLL <i>a</i> , SUS- PENDE (UG/L)	CHLORO- PHYLL <i>b</i> , SUS- PENDE (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
Site 1 - TRUCKEE RIVER AT TAHOE CITY							
JUN, 1980							
02...	0900	.084	<.086	35710	298	295	.4
AUG							
08...	0845	.103	<.170	38840	614	610	--
Site 2 - SQUAW CREEK AT SQUAW VALLEY ROAD AT SQUAW VALLEY							
AUG, 1980							
08...	1000	.140	<.139	14290	484	482	--
Site 3 - DONNER CREEK AT DONNER LAKE NEAR TRUCKEE							
JUN, 1980							
02...	1100	.157	<.081	25480	282	278	.4
AUG							
08...	1105	.137	<.193	43800	637	631	--
Site 4 - TRUCKEE RIVER AT STATE HIGHWAY 267 AT TRUCKEE							
JUN, 1980							
02...	1400	.708	.091	7062	352	347	--
AUG							
08...	1245	.175	<.173	28570	637	632	--
Site 5 - MARTIS CREEK NEAR TRUCKEE							
JUN, 1980							
02...	1215	1.14	<.078	3509	295	291	--
Site 6 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE BELOW TRUCKEE							
AUG, 1980							
08...	1330	<.199	<.196	--	614	609	--
Site 7 - PROSSER CREEK BELOW PROSSER CREEK DAM							
JUN, 1980							
02...	1600	.842	.173	--	--	--	.3
AUG							
08...	1455	.303	.200	17751	615	609	--
Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM							
JUN, 1980							
02...	1655	.451	<.093	6652	287	284	.5
AUG							
08...	1600	.338	<.223	17750	624	618	--
Site 10 - TRUCKEE RIVER AT BOCA BRIDGE							
AUG, 1980							
08...	1645	.263	<.200	34220	631	622	--

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980

Site 13 - TRUCKEE RIVER AT CRYSTAL PEAK PARK AT VERDI

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1980												
02...	1825	--	10.0	631	8.0	7.7	79	72	51	7.2	--	--
04...	0930	--	6.5	636	8.5	9.9	101	70	--	--	--	--
05...	0930	a1590	10.5	636	8.5	9.7	104	64	--	7.2	--	--
05...	1140	--	14.0	636	9.0	9.7	100	66	--	7.6	--	8.0
05...	1415	--	13.5	636	10.0	9.5	100	65	--	7.7	--	--
05...	1615	--	16.0	636	11.0	9.4	101	64	--	7.6	--	--
05...	1800	--	14.0	636	11.0	9.4	101	65	--	7.7	--	--
05...	1930	--	9.5	636	10.5	9.3	99	63	--	7.5	--	9.0
05...	2220	--	8.5	636	10.0	9.4	99	62	--	--	--	--
06...	0005	--	5.5	636	9.5	9.5	99	64	--	7.5	--	8.0
06...	0215	--	5.5	637	9.0	9.5	98	61	--	7.4	--	--
06...	0410	--	2.0	637	9.0	--	--	62	--	7.4	--	11
06...	0610	--	4.0	637	8.5	9.8	100	62	--	7.5	--	--
06...	0905	--	12.0	638	8.5	9.9	101	64	--	7.7	--	8.0
06...	1110	--	14.5	638	9.5	9.6	100	65	--	7.8	--	--
06...	1305	--	17.5	638	11.0	9.3	100	66	--	7.9	--	5.0
AUG, 1980												
11...	1005	--	29.0	638	15.0	10.8	127	89	70	8.0	--	3.3
13...	1005	a410	21.5	636	14.0	8.6	99	103	--	7.8	--	--
13...	1155	--	28.0	635	16.5	8.6	105	102	--	8.3	--	4.7
13...	1345	--	29.5	636	20.0	8.8	114	102	--	8.6	--	--
13...	1522	--	26.0	635	20.5	8.6	114	102	--	8.5	--	2.0
13...	1715	--	24.5	635	20.0	8.2	107	103	--	8.4	--	--
13...	1930	--	18.5	634	17.5	7.7	98	101	--	8.2	--	1.5
13...	2115	--	--	635	17.5	7.8	98	102	--	8.0	--	--
13...	2325	--	15.0	635	15.5	7.7	93	102	--	7.9	--	1.7
14...	0115	--	14.0	635	--	8.0	--	101	--	7.8	--	--
14...	0320	--	11.0	635	14.0	8.2	95	101	--	7.8	--	3.6
14...	0515	--	13.5	635	13.5	8.4	96	102	--	7.8	--	--
14...	0730	--	14.5	635	12.5	8.7	98	102	--	7.8	--	3.2
14...	0925	--	18.5	635	13.0	9.0	103	102	--	8.0	--	--
14...	1120	--	19.5	635	15.0	9.2	109	101	--	8.3	--	3.9

^a Average streamflow estimated for the synoptic sampling period.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 13 - TRUCKEE RIVER AT CRYSTAL PEAK PARK AT VERDI--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1980										
02...	1825	--	.00	--	--	.01	--	--	.00	.02
05...	1140	--	.09	--	.08	.01	.07	--	.03	.04
05...	1930	--	.10	--	.14	.01	.13	--	.03	--
06...	0410	--	.09	--	.09	.01	.08	--	.02	.01
06...	1305	--	.09	--	.08	.01	.07	--	.03	--
AUG, 1980										
11...	1005	.54	--	--	.01	.01	.00	.55	.01	.04
13...	1155	.42	.07	.35	.00	--	--	.42	.01	.05
13...	2325	.79	.01	.78	.00	.01	.00	.79	.00	.04

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1980										
02...	1825	.46	.00	.46	.13	.01	.12	.59	.00	.01
05...	1140	.36	.06	.30	.05	.00	.05	.41	.03	.03
05...	1615	.49	.17	.32	.10	.00	.10	.59	.03	--
05...	1930	.31	.10	.21	.04	.01	.03	.35	.03	.02
06...	0005	.69	.10	.59	--	.00	--	--	--	.02
06...	0410	.45	.10	.35	.07	.00	.07	.52	.01	.01
06...	0905	.30	.08	.22	.08	.00	.08	.38	.01	--
06...	1305	.39	.04	.35	.07	.00	.07	.46	.01	.01
AUG, 1980										
11...	1005	.35	.01	.34	.00	.00	.00	.35	.01	.02
13...	1155	--	.03	--	.00	.02	.00	--	.00	.06
13...	1522	.49	.01	.48	.00	.02	.00	.49	.00	.04
13...	1930	.36	.07	.29	.00	.00	.00	.36	.01	.02
13...	2325	.66	.02	.64	.00	.00	.00	.66	--	.03
14...	0320	.42	.05	.37	.00	.02	.00	.42	.01	.05
14...	0730	.50	.04	.46	.00	.01	.00	.50	.01	.05
14...	1120	.36	.02	.34	.01	.02	.00	.37	.00	.04

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 13 - TRUCKEE RIVER AT CRYSTAL PEAK PARK AT VERDI--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E,	DECAY RATE, BASE 10,	TOTAL BOD			NITROGENOUS BOD	
						PER DAY AT 20°C	PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1980												
02...	1825	1.0	.7	1.2	1.2	.19	.08	.7	1.4	1.5	--	--
05...	1615	.48	1.2	2.2	2.3	.15	.06	.9	2.0	2.4	--	--
05...	1930	.55	.9	1.8	1.9	.14	.06	.9	1.8	1.9	--	--
06...	0005	--	.3	.8	.9	.09	.04	.8	1.8	2.1	--	--
06...	0410	.52	.6	1.2	1.4	.11	.05	.5	1.2	1.4	--	--
06...	0905	1.0	.7	1.4	1.6	.11	.05	.6	1.3	1.4	--	--
06...	1305	1.0	.7	1.6	1.8	.10	.04	.5	1.5	2.0	--	--
AUG, 1980												
11...	1005	.52	.6	1.7	2.3	.07	.03	.8	2.4	3.0	--	--
13...	1155	.22	1.1	2.0	2.1	.15	.06	.9	1.8	2.0	--	--
13...	1522	--	.7	1.4	1.6	.13	.06	1.1	2.1	2.3	--	--
13...	1930	--	.9	1.6	1.7	.15	.06	.7	1.4	1.5	--	--
13...	2325	.06	.8	1.6	1.8	.13	.06	.9	1.7	1.9	--	--
14...	0320	--	.8	1.5	1.6	.14	.06	.6	1.2	1.3	--	--
14...	0730	--	--	--	--	--	--	1.3	2.2	2.3	--	--
14...	1120	.45	.9	1.6	1.7	.14	.06	.1	1.8	2.0	--	--

DATE	TIME	CHLORO- PHYLL a, SUS- PENDED (UG/L)	CHLORO- PHYLL b, SUS- PENDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
JUN, 1980								
02...	1825	.381	.069	7874	283	280	--	.4
05...	1140	.979	.251	2043	280	278	635	--
06...	0005	.641	.129	6240	274	270	407	.8
AUG, 1980								
11...	1005	.275	--	25450	639	632	--	--
13...	1155	.185	<.183	32430	677	671	301	2.3
13...	1522	--	--	--	--	--	200	--
13...	1930	--	--	--	--	--	176	--
13...	2325	<.170	--	--	662	654	175	--
14...	0320	--	--	--	--	--	229	--
14...	0730	--	--	--	--	--	168	--
14...	1120	--	--	--	--	--	203	--

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	ALKA- LITY MG/L AS CaCO ₃	TUR- BID- ITY (NTU)
JUN, 1980												
02...	1930	—	10.5	637	9.0	8.3	86	76	59	7.3	—	—
05...	1050	a1900	12.1	642	9.0	9.8	101	69	—	7.4	—	—
05...	1300	—	15.5	642	10.0	9.8	103	68	—	7.6	—	7.0
05...	1520	—	16.0	642	10.0	9.3	98	64	—	7.9	—	—
05...	1710	—	15.0	642	11.5	—	—	66	—	7.8	—	5.0
05...	1840	—	12.5	643	11.5	9.3	101	67	—	7.7	—	—
05...	2020	—	11.0	643	11.0	9.2	99	66	—	7.6	—	8.0
05...	2315	—	7.0	644	10.0	9.3	98	65	—	7.3	—	—
06...	0125	—	7.0	643	9.5	9.4	98	62	—	7.3	—	10
06...	0315	—	3.5	642	9.0	9.6	99	64	—	7.4	—	—
06...	0520	—	2.0	643	9.0	9.5	98	63	—	7.4	—	11
06...	0805	—	9.0	644	9.0	9.9	102	68	—	7.7	—	9.0
06...	1020	—	16.0	644	9.5	9.8	102	69	—	7.8	—	—
06...	1205	—	15.0	644	10.0	9.7	103	69	—	7.9	—	8.0
AUG, 1980												
11...	1120	—	31.5	644	17.5	11.8	139	111	75	8.8	—	4.0
13...	1105	a340	26.5	641	17.0	9.6	118	107	—	8.8	—	—
13...	1300	—	30.0	640	18.5	9.7	123	107	—	9.1	—	2.9
13...	1426	—	33.5	642	18.5	—	—	106	—	9.2	—	—
13...	1600	—	27.5	640	19.5	9.6	122	106	—	9.2	—	2.5
13...	1752	—	—	640	19.0	9.0	115	105	—	9.2	—	—
13...	2015	—	23.5	640	18.5	7.7	98	108	—	8.6	—	1.7
13...	2200	—	21.5	640	18.0	7.6	95	108	—	8.0	—	—
14...	0015	—	20.0	641	18.0	7.6	95	114	—	7.9	—	—
14...	0200	—	16.5	640	17.0	7.8	96	114	—	7.8	—	—
14...	0405	—	11.5	640	16.0	8.0	96	105	—	7.8	—	4.7
14...	0600	—	10.0	640	15.0	8.0	95	119	—	7.8	—	—
14...	0815	—	14.0	640	15.0	8.8	104	118	—	8.0	—	3.4
14...	1005	—	22.0	640	15.0	9.6	112	105	—	8.6	—	—
14...	1200	—	22.0	640	15.5	9.8	116	107	—	9.0	—	5.4

^a Average streamflow estimated for the synoptic sampling period.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1980										
02...	1930	.35	.00	.35	.03	.01	.02	.38	—	.02
05...	1300	.30	—	—	.07	.01	.06	.37	.03	.03
05...	2020	—	.10	—	.15	.01	.14	—	.03	.05
06...	0520	.45	.10	.35	.11	.01	.10	.56	.03	.02
06...	1205	.40	.10	.30	.02	.01	.01	.42	.04	—
AUG, 1980										
11...	1120	.56	.01	.55	.00	.00	.00	.56	.01	.04
13...	1300	—	.06	—	.00	.00	.00	—	.02	.04
14...	0015	.86	.08	.78	.00	.02	.00	.86	.02	.05
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1980										
02...	1930	.30	.00	.30	.05	.00	.05	.35	.02	.01
05...	1300	—	.10	—	—	.01	—	—	—	.02
05...	1710	.41	.10	.31	—	.00	—	—	.03	.01
05...	2020	.33	.12	.21	—	.00	—	—	.01	.01
06...	0125	.64	.12	.52	.13	.00	.13	.77	—	.01
06...	0520	.38	.08	.30	.07	.00	.07	.45	.01	.01
06...	0805	.31	.06	.25	—	.00	—	—	—	.00
06...	1205	.38	.06	.30	.03	.00	.03	.41	.03	.01
AUG, 1980										
11...	1120	.34	—	—	.00	.00	.00	.34	.03	.02
13...	1300	.46	.00	.46	.00	.01	.00	.46	.00	.04
13...	1600	.41	.04	.37	.00	.01	.00	.41	.01	.05
13...	2015	—	—	—	.00	.00	.00	—	.01	.03
14...	0015	.49	—	—	.00	.00	.00	.49	.01	.04
14...	0405	.39	.01	.38	.00	.01	.00	.39	.04	.05
14...	0815	.38	.03	.35	.00	.01	.00	.38	.02	.05
14...	1200	—	.04	—	.00	.02	.00	—	.00	.08

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE 10, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1980												
02...	1930	.24	.9	1.8	1.9	.13	.06	.8	1.5	1.6	—	—
05...	1300	.03	.8	1.7	1.8	.12	.05	.6	1.7	2.4	—	—
05...	1710	1.2	.6	1.5	2.0	.07	.03	1.0	2.1	2.3	—	—
05...	2020	—	.7	1.5	1.7	.11	.05	.8	1.7	1.9	—	—
06...	0125	—	.6	1.6	2.2	.06	.03	.8	1.6	1.8	—	—
06...	0520	.52	.6	1.4	2.0	.07	.03	.5	1.5	2.0	—	—
06...	0805	—	.6	1.6	2.2	.06	.03	.7	1.5	1.7	—	—
06...	1205	—	.6	1.4	1.6	.09	.04	.7	1.7	2.1	—	—
AUG, 1980												
11...	1120	.52	.8	1.8	2.2	.08	.03	1.0	2.2	2.6	—	—
13...	1300	—	1.1	2.0	2.0	.15	.06	1.1	2.4	2.8	—	—
13...	1600	—	1.2	2.4	2.6	.12	.05	1.1	2.1	2.3	—	—
13...	2015	—	1.4	2.3	2.4	.17	.07	2.1	3.2	3.3	—	—
14...	0015	—	1.3	2.6	2.8	.13	.06	1.0	1.8	2.0	—	—
14...	0405	—	1.0	1.7	1.8	.16	.07	1.2	2.0	2.0	—	—
14...	0815	.22	1.3	2.6	2.9	.12	.05	1.5	2.7	2.8	—	—
14...	1200	.10	1.0	1.9	2.0	.14	.06	1.1	2.1	2.3	—	—
		DATE	TIME	CHLORO- PHYLL a, SUS- PENDED (UG/L)	CHLORO- PHYLL b, SUS- PENDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
JUN, 1980												
02...	1930			1.12	.165	—	—	—	—	.4		
05...	1300			—	—	—	—	—	539	.8		
06...	0125			—	—	—	—	—	492	.6		
AUG, 1980												
11...	1120			.270	—	29630	623	615	—	—		
13...	1300			.252	—	31750	687	679	184	2.1		
13...	1600			—	—	—	—	—	198	—		
13...	2015			—	—	—	—	—	196	—		
14...	0015			.150	—	46670	667	660	190	2.4		
14...	0405			—	—	—	—	—	222	—		
14...	0815			—	—	—	—	—	245	—		
14...	1200			—	—	—	—	—	235	—		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 16 - TRUCKEE RIVER NEAR SPARKS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0545	370	15.0	649	14.0	8.6	98	102	--	--	28	--
06...	0900	400	21.0	649	14.5	8.7	100	92	--	--	--	--
06...	1130	415	24.5	649	16.0	8.6	101	91	--	8.4	--	--
06...	1350	410	28.0	648	17.5	8.5	104	90	--	--	28	--
06...	1555	390	28.0	647	18.5	8.5	100	88	--	--	27	--
06...	1815	385	25.5	647	18.5	7.6	95	89	--	--	--	--
06...	2045	350	21.5	648	17.0	7.4	92	88	--	--	27	--
07...	0530	320	14.0	652	12.0	--	--	93	--	--	--	--
07...	0720	340	11.5	652	12.0	--	--	90	--	--	28	--
07...	0955	380	16.0	652	11.5	8.8	95	91	--	--	--	--
07...	1150	380	18.0	653	14.5	9.4	106	88	--	--	28	--
07...	1345	365	20.5	652	15.5	9.2	107	88	--	--	--	--
07...	1530	345	22.0	652	16.5	8.9	106	87	--	--	28	--
07...	1810	330	22.0	651	17.0	8.6	104	88	--	--	--	--
07...	2010	315	18.0	652	16.0	8.1	95	85	--	--	28	--
AUG, 1979												
06...	1800	#155	--	651	24.0	8.2	114	122	76	8.9	54	--
07...	1700	#145	--	#650	21.5	7.6	100	120	83	8.8	60	--
08...	0800	#165	19.5	#653	17.0	7.8	94	143	--	7.5	--	--
08...	0950	#170	24.0	#653	18.5	8.4	104	130	--	8.3	56	--
08...	1200	#170	28.0	#652	20.5	8.8	113	129	--	8.2	52	--
08...	1405	#155	28.5	#651	22.5	9.2	123	120	--	9.0	--	--
08...	1550	#150	31.0	#651	23.5	8.8	122	124	--	9.1	53	--
08...	1800	#145	28.5	#651	22.5	7.5	100	125	--	9.0	--	--
08...	2000	#145	26.5	#652	22.0	7.2	96	123	--	9.0	--	--
08...	2200	#145	23.0	#653	21.0	6.4	84	128	--	8.4	--	--
08...	2400	#145	20.5	#653	21.0	6.4	84	132	--	8.0	--	--
09...	0200	#160	18.5	#654	20.0	6.6	85	132	--	7.9	--	--
09...	0400	#155	14.0	#654	19.0	6.8	85	128	--	7.8	--	--
09...	0600	#160	13.5	#654	18.0	7.0	86	126	--	7.9	--	--
09...	0800	#160	18.5	#654	18.0	7.5	93	116	--	7.8	56	--
JUN, 1980												
03...	1100	1940	13.5	645	9.0	10.4	106	76	62	8.1	--	--
05...	1000	1870	11.0	647	8.0	9.4	93	76	--	8.2	--	--
05...	1420	1840	17.0	647	12.0	9.2	100	69	--	7.9	--	--
05...	1655	1840	16.0	647	--	9.2	--	78	--	8.0	--	16
05...	1855	1780	17.5	647	12.5	--	--	71	--	8.1	--	--
05...	2110	1770	10.5	648	11.0	9.4	100	72	--	7.8	--	--
05...	2245	1770	6.5	648	10.0	9.4	97	76	--	7.8	--	--
06...	0055	1770	5.0	648	10.0	9.8	101	78	--	7.7	--	12
06...	0235	1750	3.5	648	10.0	10.0	103	76	--	7.7	--	--
06...	0525	1750	3.5	648	9.0	10.4	105	76	--	7.6	--	12
06...	0730	1750	3.5	649	9.0	10.0	101	76	--	7.8	--	--
06...	0910	1750	--	649	10.5	10.1	106	76	--	7.8	--	--
06...	1045	1750	13.5	649	10.5	10.2	107	76	--	7.8	--	--
06...	1315	1750	19.0	649	11.0	9.2	98	76	--	8.0	--	8.0
AUG, 1980												
11...	1500	150	33.5	648	22.0	11.2	149	121	84	8.8	--	7.4
13...	1000	150	--	#648	17.0	9.0	108	126	--	8.2	--	--
13...	1200	145	21.0	#646	18.5	9.5	117	126	--	8.3	--	3.5
13...	1400	150	33.5	#647	20.5	9.7	126	126	--	8.5	--	--
13...	1600	150	33.0	#645	21.5	9.4	125	124	--	8.8	--	2.8
13...	1800	145	30.0	#645	21.0	8.8	116	124	--	8.9	--	--
13...	2000	150	24.0	#645	20.0	7.5	96	126	--	8.9	--	2.3
13...	2200	150	23.0	#645	19.0	6.8	86	126	--	8.6	--	--
13...	2400	150	16.0	#646	18.0	6.9	85	126	--	8.4	--	3.5
14...	0200	150	15.0	#645	16.5	7.0	82	127	--	8.1	--	--
14...	0400	155	8.5	#645	16.0	7.3	87	130	--	7.7	--	5.6
14...	0545	165	9.5	#645	15.0	7.4	86	127	--	7.6	--	--
14...	0800	165	14.0	#645	14.5	8.2	95	128	--	7.6	--	6.3
14...	1000	165	20.0	#645	16.0	9.2	110	127	--	8.0	--	--
14...	1145	165	26.0	#645	17.0	9.5	114	126	--	8.2	--	4.0

Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 16 - TRUCKEE RIVER NEAR SPARKS--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0545	.36	.00	.36	.02	.00	.02	.38	.02	.02
06...	1130	—	.03	—	.02	.02	.00	—	.01	.03
06...	1350	.37	.04	.33	.02	.02	.00	.39	.03	.03
06...	1555	.37	.02	.35	.01	.02	.00	.38	.02	.03
06...	2045	.39	.04	.35	.00	.00	.00	.39	.00	.03
07...	0720	.28	.01	.27	.02	.02	.00	.30	.01	.02
07...	1150	.26	.01	.25	.03	.00	.03	.29	.02	.02
07...	1530	.34	.05	.29	.01	.02	.00	.35	.05	.02
07...	2010	.48	.03	.45	.01	.02	.00	.49	.05	.04
AUG, 1979										
06...	1800	.30	.01	.29	.02	.00	.02	.32	.02	.07
07...	1700	.68	.03	.65	.02	.02	.00	.70	—	—
JUN, 1980										
03...	1100	.37	.07	.30	.05	.00	.05	.42	.05	.04
05...	2110	.48	.15	.33	.18	.01	.17	.66	—	.06
06...	0525	—	.09	—	—	.01	—	—	.06	.04
06...	1315	.44	.12	.32	.34	.01	.33	.78	—	.05
AUG, 1980										
11...	1500	.46	.02	.44	.00	.00	.00	.46	.02	.03
13...	1200	—	.08	—	.00	.00	.00	—	.02	.07
13...	2400	.58	.04	.54	.01	.02	.00	.59	.01	.07
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL SOLVED (MG/L AS P)
AUG, 1979										
06...	1800	.30	.01	.29	.01	.01	.00	.31	.03	.03
07...	1700	.65	.02	.63	.00	.00	.00	.65	.07	.06
08...	0800	.10	.00	.10	.06	.01	.05	.16	.08	.06
08...	1200	.16	.03	.13	.04	.00	.04	.20	.03	.10
08...	1550	.21	.09	.12	.03	.00	.03	.24	.13	—
08...	2000	.22	.00	.22	.03	.01	.02	.25	.07	.03
08...	2400	.55	.00	.55	.03	.00	.03	.58	.04	.03
09...	0400	.38	.01	.37	.05	.00	.05	.43	.07	.02
09...	0800	.10	.03	.07	.04	.00	.04	.14	.04	.01
JUN, 1980										
05...	1420	.48	.15	.33	.11	.00	.11	.59	.01	.02
05...	1655	.53	.17	.36	.27	.00	.27	.80	.07	.04
05...	2110	.32	.16	.16	.16	.00	.16	.48	.05	—
06...	0055	.52	.12	.40	.25	.01	.24	.77	.04	.03
06...	0525	—	.12	—	.29	.00	.29	—	—	.01
06...	0910	.58	.12	.46	.36	.00	.36	.94	.04	.06
06...	1315	.48	—	—	.27	.00	.27	.75	.05	.02
AUG, 1980										
11...	1500	.47	.05	.42	.00	.00	.00	.47	.02	.03
13...	1200	.49	.03	.46	.00	.02	.00	.49	.01	.07
13...	1600	.30	.03	.27	.00	.02	.00	.30	—	.10
13...	2000	.39	.01	.38	.00	.01	.00	.39	.02	.04
13...	2400	.41	.06	.35	.00	.02	.00	.41	.01	.04
14...	0400	.46	—	—	.01	.02	.00	.47	.04	.08
14...	0800	.41	.01	.40	.00	.01	.00	.41	.01	.04
14...	1145	.27	.04	.23	.00	.02	.00	.27	.01	.06

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 16 - TRUCKEE RIVER NEAR SPARKS--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY	DECAY	TOTAL BOD			NITROGENOUS BOD	
						RATE, BASE E, PER DAY AT 20°C	RATE, BASE 10, PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0545	—	1.0	2.4	2.9	.08	.03	.9	2.0	2.3	—	—
06...	0900	—	.8	2.1	2.8	.07	.03	1.1	2.6	3.2	—	—
06...	1130	.15	1.6	2.9	3.1	.14	.06	1.4	3.2	3.7	—	—
06...	1350	—	1.7	3.1	3.3	.15	.06	1.6	2.9	3.1	—	—
06...	1555	—	1.4	2.6	2.8	.15	.06	1.5	2.9	3.1	—	—
06...	1815	2.4	1.1	2.2	2.5	.12	.05	1.0	2.2	2.7	—	—
06...	2045	2.3	1.2	2.9	3.8	.07	.03	—	—	—	—	—
07...	0530	2.3	1.3	2.1	2.2	.17	.07	1.3	2.5	2.7	—	—
07...	0955	1.9	1.2	2.2	2.3	.15	.06	1.2	2.4	2.6	—	—
07...	1345	2.2	1.1	1.8	1.9	.17	.07	1.2	2.4	2.5	—	—
07...	1810	1.9	.9	2.3	2.9	.08	.03	1.0	2.0	2.2	—	—
07...	2010	1.6	1.2	2.1	2.2	.17	.07	1.1	2.0	2.1	—	—
AUG, 1979												
06...	1800	.48	1.8	3.0	3.1	.18	.08	1.6	2.7	2.7	—	—
07...	1700	—	1.9	3.9	4.4	.11	.05	2.5	4.0	4.2	—	—
08...	0800	.32	1.6	2.4	2.5	.21	.09	1.5	2.7	2.8	—	—
08...	1200	—	1.7	2.2	2.2	.28	.12	—	—	—	—	—
08...	1550	.21	1.6	2.0	2.0	.32	.14	1.8	2.7	2.7	—	—
08...	2000	—	1.8	2.4	2.4	.26	.11	—	—	—	—	—
08...	2400	—	.8	2.2	3.2	.06	.03	1.1	2.5	2.9	—	—
09...	0400	—	1.0	2.0	2.3	.11	.05	—	—	—	—	—
09...	0800	—	1.1	2.2	2.4	.12	.05	1.4	2.6	2.8	—	—
JUN, 1980												
03...	1100	—	1.1	2.4	2.8	.10	.04	1.1	2.0	2.1	—	—
05...	1420	—	.7	1.7	2.2	.08	.03	1.2	2.3	2.4	—	—
05...	1655	.49	.8	1.5	1.6	.13	.06	1.2	2.4	2.8	—	—
05...	2110	—	.5	1.2	1.4	.09	.04	.8	1.8	2.1	—	—
06...	0055	—	.5	1.3	1.6	.08	.03	.8	1.7	1.8	—	—
06...	0525	—	.5	1.2	1.5	.08	.03	.5	1.6	2.4	—	—
06...	0910	.49	.9	2.2	2.9	.07	.03	.7	2.0	2.9	—	—
06...	1315	—	.9	2.0	2.2	.10	.04	.6	1.6	2.0	—	—
AUG, 1980												
11...	1500	.07	1.6	2.9	3.0	.15	.06	.9	2.3	2.9	—	—
13...	1200	.27	1.3	2.3	2.4	.15	.06	1.4	2.8	3.1	—	—
13...	1600	—	1.1	2.3	2.5	.12	.05	1.3	2.6	3.0	—	—
13...	2000	.04	1.5	2.4	2.5	.18	.08	2.0	3.2	3.3	—	—
13...	2400	.51	1.2	1.9	1.9	.19	.08	1.2	2.4	2.6	—	—
14...	0400	.23	1.3	2.4	2.6	.14	.06	1.3	2.4	2.6	—	—
14...	0800	.51	1.2	2.1	2.3	.15	.06	1.9	3.2	3.3	—	—
14...	1145	—	1.5	2.8	3.0	.14	.06	1.3	2.3	2.5	—	—
DATE	TIME	CHLORO- PHYLL α , SUS- PENDE		CHLORO- PHYLL β , SUS- PENDE		BIOMASS/ CHLORO- PHYLL RATIO		SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML.)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)	
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UNITS)	(UNITS)					
AUG, 1979												
06...	1800	.708	<.209	12710	434	425	—	—	—	—		
07...	1700	1.31	.117	6107	409	401	—	—	—	—		
08...	0800	1.95	.209	8205	388	372	—	—	—	—		
08...	1200	.963	.048	11420	362	351	365	—	—	—		
08...	1550	.263	<.181	49430	373	360	265	2.6	—	—		
08...	2000	1.21	.095	4132	361	356	—	—	—	—		
08...	2400	.724	<.238	12430	379	370	330	—	—	—		
09...	0400	2.36	.266	5085	378	366	—	4.0	—	—		
09...	0800	.709	.090	16930	367	355	484	—	—	—		
JUN, 1980												
03...	1100	5.46	<.112	2198	347	335	—	.4	—	—		
05...	1420	1.43	.270	—	—	—	—	.5	—	—		
06...	0055	—	—	—	—	—	—	413	—	—		
AUG, 1980												
11...	1500	.714	<.252	8403	637	631	—	—	—	—		
13...	1200	—	—	—	—	—	419	1.4	—	—		
13...	1600	—	—	—	—	—	478	—	—	—		
13...	2000	—	—	—	—	—	302	—	—	—		
13...	2400	.179	—	44690	670	662	405	1.6	—	—		
14...	0400	—	—	—	—	—	330	—	—	—		
14...	0800	—	—	—	—	—	361	—	—	—		
14...	1145	—	—	—	—	—	454	—	—	—		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	SPE- CIFIC CON- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0545	#40	14.0	650	17.0	5.0	60	385	--	--	140	--
06...	0755	#45	19.0	650	16.0	6.6	78	348	--	--	--	--
06...	1000	#45	22.5	650	16.5	8.2	98	340	--	--	130	--
06...	1155	#40	22.5	650	18.0	--	--	--	--	8.5	129	--
06...	1335	#40	--	650	19.5	11.4	144	321	--	--	120	--
06...	1525	#40	26.5	650	21.0	--	--	327	--	--	--	--
06...	1720	#40	27.5	650	22.0	10.4	139	342	--	--	130	--
06...	1910	#40	24.0	650	21.0	9.2	121	345	--	--	--	--
06...	2035	#40	17.5	650	20.0	7.6	97	348	--	--	130	--
07...	0535	#40	8.0	650	14.5	5.6	64	369	--	--	140	--
07...	0720	#40	10.5	650	13.5	5.8	65	355	--	--	--	--
07...	0925	#40	15.5	650	14.0	8.1	92	345	--	--	130	--
07...	1125	#40	18.0	650	15.0	10.8	126	320	--	--	--	--
07...	1325	#40	18.5	650	17.0	11.4	137	309	--	--	120	--
07...	1515	#40	20.0	650	18.5	12.2	152	310	--	--	--	--
07...	1720	#35	20.0	650	19.5	11.0	139	328	--	--	--	--
07...	1915	#35	16.0	650	19.0	9.7	121	303	--	--	--	--
07...	2050	#35	13.0	650	18.0	7.7	96	336	--	--	--	--
AUG, 1979												
06...	1600	48	--	651	24.0	11.1	154	332	239	8.5	142	--
07...	1800	48	--	#650	20.5	8.2	106	340	241	8.3	174	--
08...	0900	51	19.5	#652	17.0	6.2	75	396	--	7.7	155	--
08...	1050	51	24.0	#652	18.0	8.5	105	361	--	7.6	--	--
08...	1250	51	28.0	#651	20.5	9.8	126	342	--	7.9	136	--
08...	1445	51	33.0	#650	22.0	11.0	147	328	--	8.9	--	--
08...	1650	51	28.5	#650	22.5	9.6	128	337	--	8.7	132	--
08...	1900	51	28.0	#650	21.5	7.8	104	357	--	8.5	--	--
08...	2045	52	24.5	#651	21.0	7.0	92	358	--	8.4	--	--
08...	2240	52	21.0	#652	21.0	5.6	74	340	--	8.1	--	--
09...	0100	51	18.5	#652	20.0	4.4	56	364	--	7.9	--	--
09...	0230	50	15.5	#652	19.0	4.6	56	382	--	7.8	--	--
09...	0440	50	14.0	#653	18.5	4.6	57	368	--	7.8	--	--
09...	0640	49	15.0	#653	18.0	4.8	59	374	--	7.8	--	--
JUN, 1980												
03...	1130	46	16.0	645	12.0	10.8	117	357	264	8.0	--	--
05...	1020	50	13.0	645	11.5	8.1	84	--	--	8.0	--	--
05...	1250	51	13.0	645	14.0	9.7	111	357	--	8.3	--	30
05...	1510	50	16.0	645	15.0	10.3	120	347	--	8.4	--	--
05...	1645	48	18.5	645	17.0	9.6	116	344	--	8.4	--	45
05...	1825	48	13.0	646	--	8.7	--	391	--	8.4	--	--
05...	2025	47	8.0	647	13.5	7.9	89	381	--	8.2	--	51
05...	2235	44	8.0	647	--	7.2	--	--	--	8.2	--	--
06...	0040	46	6.5	648	11.5	--	--	402	--	8.0	--	44
06...	0300	47	4.5	648	10.5	--	--	390	--	7.9	--	--
06...	0410	45	2.0	647	9.5	7.5	77	377	--	7.9	--	61
06...	0805	47	10.5	649	10.0	8.0	82	406	--	7.8	--	31
06...	1010	46	--	650	10.5	9.4	98	406	--	8.3	--	--
06...	1135	48	13.5	648	12.5	9.8	108	389	--	8.4	--	52
AUG, 1980												
11...	1530	36	32.0	648	21.5	11.9	157	370	243	8.7	--	25
13...	1100	33	22.5	#648	16.0	8.9	105	307	--	7.9	--	--
13...	1230	38	26.0	#648	18.5	10.4	128	299	--	8.2	--	32
13...	1430	39	31.5	#646	20.5	10.8	140	338	--	8.4	--	--
13...	1645	37	31.0	#646	22.0	10.7	143	345	--	8.5	--	--
13...	1830	37	27.5	#646	21.5	9.6	128	348	--	8.6	--	--
13...	2045	37	24.5	#646	20.0	7.3	94	365	--	8.2	--	--
13...	2230	39	17.5	#646	19.0	6.2	78	384	--	7.9	--	--
14...	0045	41	15.0	#646	17.5	5.6	68	370	--	7.8	--	36
14...	0245	41	12.0	#646	16.0	5.6	66	363	--	7.6	--	--
14...	0445	41	7.0	#646	15.0	5.7	66	359	--	7.6	--	16
14...	0615	41	7.0	#645	14.0	6.0	68	361	--	7.5	--	--
14...	0845	41	13.5	#646	13.5	6.9	78	352	--	7.5	--	26
14...	1030	41	21.5	#646	15.0	8.6	100	352	--	7.8	--	--
14...	1215	40	25.5	#646	16.5	10.4	124	335	--	8.0	--	--

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0545	1.3	.06	1.2	.41	.02	.39	1.7	.08	.14
06...	1000	.88	.04	.84	.30	.02	.28	1.2	.09	.13
06...	1155	.81	.06	.75	.32	.02	.30	1.1	.09	.14
06...	1335	1.1	.06	1.0	.32	.02	.30	1.4	.10	.12
06...	1720	.90	.05	.85	.27	.02	.25	1.2	.10	.14
06...	2035	1.1	.05	1.1	.30	.02	.28	1.4	.12	.15
07...	0535	.71	.05	.66	.38	.04	.34	1.1	.08	---
07...	0925	.73	.06	.67	.32	.04	.28	1.1	.10	.20
07...	1325	.78	.05	.73	.25	.02	.23	1.0	.10	.13
AUG, 1979										
06...	1600	.68	.05	.63	.23	.02	.21	.91	.07	.15
07...	1800	.58	.01	.57	.43	.02	.41	1.0	.07	.11
JUN, 1980										
03...	1130	.97	.10	.87	.39	.01	.38	1.4	.08	.18
05...	1250	.93	.10	.83	.38	.01	.37	1.3	.08	.17
05...	2025	.93	.12	.81	---	.03	---	---	.12	.20
06...	0410	1.4	.14	1.3	.41	.01	.40	1.8	.07	.07
06...	0805	.80	.00	.80	.43	.01	.42	1.2	.08	.14
AUG, 1980										
11...	1530	1.1	.11	.99	.49	.01	.48	1.6	.08	.10
13...	1230	.95	.12	.83	.34	.01	.33	1.3	.06	.17
14...	0045	.94	.06	.88	.53	.01	.52	1.5	.08	.11
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL SOLVED (MG/L AS P)
AUG, 1979										
06...	1600	.70	.01	.69	.24	.01	.23	.94	.08	.09
07...	1800	.55	.03	.52	.45	.01	.44	1.0	.07	.08
08...	0900	.41	.00	.41	.39	.01	.38	.80	.10	.09
08...	1250	.45	.03	.42	---	.01	---	---	.11	---
08...	1650	.45	.03	.42	.29	.01	.28	.74	.14	---
08...	2045	.44	.00	.44	.46	.01	.45	.90	.10	.09
09...	0100	.54	.00	.54	.47	.01	.46	1.0	.08	.08
09...	0440	.50	.03	.47	.47	.01	.46	.97	---	---
JUN, 1980										
05...	1250	.76	.10	.66	.38	.00	.38	1.1	.10	.14
05...	1645	1.3	.23	1.1	---	.01	---	---	.10	.14
05...	2025	---	.13	---	.60	.01	.59	---	.08	.11
06...	0040	.66	.13	.53	.26	.00	.26	.92	---	.11
06...	0410	1.0	.14	.86	.37	.01	.36	1.4	.07	.07
06...	0805	.70	.00	.70	---	.01	---	---	.05	.07
06...	1135	1.1	.13	.97	.63	.01	.62	1.7	.12	.08
AUG, 1980										
11...	1530	1.1	.14	.96	.52	.01	.51	1.6	.08	.11
13...	1230	.38	.04	.34	.37	.02	.35	.75	.04	.09
13...	1645	.87	.05	.82	.51	.02	.49	1.4	.06	.14
13...	2045	.53	.04	.49	.42	.01	.41	.95	.05	.09
14...	0045	.85	.01	.84	.54	.03	.51	1.4	.02	.08
14...	0445	.90	.07	.83	.45	.01	.44	1.4	.04	.09
14...	0845	1.0	.04	.96	.45	.01	.44	1.5	.04	.08
14...	1215	.53	.01	.52	.50	.04	.46	1.0	.00	.10

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0545	—	1.7	3.8	4.4	.10	.04	—	—	—	—	—
06...	1000	—	1.9	4.0	4.5	.11	.05	—	—	5.0	—	.5
06...	1335	—	1.9	4.2	5.0	.09	.04	—	—	5.0	—	.0
06...	2035	1.8	2.0	4.4	5.0	.10	.04	—	—	—	—	—
07...	0535	1.1	2.1	4.0	4.2	.14	.06	—	—	4.2	1.1	.0
07...	0925	2.1	1.5	3.1	3.5	.11	.05	—	—	4.4	1.5	.9
07...	1325	.84	1.5	3.4	4.0	.10	.04	—	—	5.3	.69	1.3
07...	1720	.23	1.6	3.2	3.5	.13	.06	—	—	5.8	.44	2.3
07...	2050	1.3	1.8	3.6	4.0	.12	.05	—	—	5.3	1.3	1.3
AUG, 1979												
06...	1600	.01	3.4	7.2	8.1	.11	.05	—	—	4.8	.09	—
07...	1800	.19	4.1	6.1	6.2	.22	.10	—	—	4.9	.31	—
08...	0900	.31	1.8	3.4	3.7	.14	.06	—	—	5.6	.27	1.9
08...	1650	—	2.5	4.4	4.6	.15	.06	—	—	4.4	—	—
08...	2045	—	1.7	3.2	3.4	.13	.06	—	—	—	—	—
09...	0100	—	1.5	3.2	3.6	.10	.04	—	—	4.5	.06	.9
09...	0440	—	1.4	3.4	4.3	.08	.03	—	—	—	—	—
JUN, 1980												
03...	1130	—	1.0	2.9	4.4	.05	.02	—	—	5.7	—	1.7
05...	1250	—	1.6	3.9	4.8	.08	.03	—	—	6.4	.00	1.6
05...	1645	.28	1.9	4.1	4.7	.10	.04	—	—	6.7	.08	2.0
05...	2025	—	1.6	3.3	3.7	.11	.05	—	—	5.8	—	2.1
06...	0040	.26	1.7	4.0	5.0	.08	.03	—	—	—	—	—
06...	0410	—	1.9	4.3	5.1	.10	.04	—	—	6.0	.03	.9
06...	0805	—	1.4	3.7	5.0	.07	.03	—	—	5.8	—	.8
06...	1135	—	1.6	3.5	4.1	.10	.04	—	—	5.1	.14	1.0
AUG, 1980												
11...	1530	.12	1.9	3.9	4.3	.12	.05	—	—	5.6	—	1.3
13...	1230	.07	1.7	3.6	4.0	.11	.05	—	—	4.9	.15	.9
13...	1645	—	1.8	3.8	4.4	.11	.05	—	—	5.1	—	.7
13...	2045	—	1.8	3.8	4.4	.11	.05	—	—	6.1	.14	1.7
14...	0045	—	1.6	3.4	3.8	.10	.04	—	—	5.8	.10	2.0
14...	0445	—	1.5	3.3	3.8	.10	.04	—	—	5.3	.27	1.5
14...	0845	.51	1.6	3.4	3.7	.11	.05	—	—	4.9	.51	1.2
14...	1215	.16	1.5	3.4	4.0	.10	.04	—	—	4.3	—	.3
DATE	TIME	CHLORO- PHYLL a, SUS- PENDE		CHLORO- PHYLL b, SUS- PENDE		BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
		(UG/L)	(UG/L)	(UG/L)	(UG/L)							
AUG, 1979												
06...	1600	1.24	.209	8871	434	423	—	—	—	—		
07...	1800	2.18	.351	7798	—	—	—	—	—	—		
08...	0900	3.89	.943	3599	380	366	—	—	—	—		
08...	1250	1.28	.193	10940	373	359	—	535	—	—		
08...	1650	1.47	.181	8844	377	364	—	—	11	—		
08...	2045	1.45	.238	5517	394	386	—	359	—	—		
09...	0100	1.69	.404	5325	310	301	—	—	—	—		
09...	0440	—	—	—	382	373	—	319	15	—		
JUN, 1980												
03...	1130	1.68	<.144	6548	505	494	—	—	15	—		
05...	1250	1.74	.136	3448	324	318	—	1453	13	—		
06...	0040	.848	.109	11790	608	598	—	2070	13	—		
AUG, 1980												
11...	1530	1.45	.382	7586	644	633	—	—	—	—		
13...	1230	1.01	.120	4951	635	630	—	1696	13	—		
13...	1645	—	—	—	—	—	—	1740	—	—		
13...	2045	—	—	—	—	—	—	1375	—	—		
14...	0045	.866	.197	13860	701	689	—	1847	12	—		
14...	0445	—	—	—	—	—	—	1472	—	—		
14...	0845	—	—	—	—	—	—	1838	—	—		
14...	1215	—	—	—	—	—	—	1610	—	—		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- ATION	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0655	#45	17.5	649	17.0	4.6	58	413	--	--	130	--
06...	0950	#50	21.5	649	17.5	5.8	71	383	--	--	--	--
06...	1230	#55	25.0	649	20.0	8.0	103	377	--	--	120	--
06...	1455	#55	27.0	648	23.0	8.6	116	352	--	--	--	--
06...	1645	#55	26.0	647	23.5	8.1	111	371	--	--	120	--
06...	1900	#55	24.0	647	23.0	7.6	103	374	--	--	--	--
06...	2120	#50	15.0	648	21.0	6.5	86	378	--	--	120	--
07...	0615	#40	10.0	652	14.0	5.5	62	400	--	--	130	--
07...	0815	#45	11.0	652	14.0	6.2	70	381	--	--	--	--
07...	1040	#50	14.5	652	14.5	8.0	92	359	--	--	--	--
07...	1250	#55	18.0	652	17.0	9.2	111	336	--	--	--	--
07...	1420	#55	20.0	652	18.0	10.2	126	339	--	--	--	--
07...	1630	#50	18.5	652	21.0	10.3	136	335	--	--	110	--
07...	1900	#45	15.5	651	22.0	9.6	128	351	--	--	--	--
07...	2050	#50	17.0	652	21.0	8.4	111	352	--	--	--	--
AUG, 1979												
06...	1920	37	--	#650	26.0	8.6	125	245	188	8.4	108	--
07...	1600	34	--	#650	23.5	8.3	114	270	184	8.1	110	--
08...	0815	37	23.0	#653	18.5	4.5	56	284	195	7.8	--	--
08...	1000	38	28.5	#653	19.0	5.0	62	285	--	7.9	--	--
08...	1200	41	--	#652	21.0	6.0	79	272	--	8.0	--	--
08...	1400	42	33.0	#651	24.0	7.4	103	276	--	8.1	--	--
08...	1600	42	32.5	#651	25.0	8.1	114	263	--	8.2	--	--
08...	1800	42	29.5	#651	25.0	8.2	115	268	--	8.2	--	--
08...	2000	42	22.5	#652	25.5	6.8	98	273	--	8.3	--	--
08...	2300	37	22.0	#652	24.0	5.2	72	276	--	8.2	--	--
09...	0025	35	18.5	#653	22.5	4.4	59	294	--	8.0	--	--
09...	0240	32	17.5	#652	21.5	4.0	53	289	--	7.8	--	--
09...	0600	31	14.0	#654	18.5	4.0	49	291	--	7.7	--	--
JUN, 1980												
03...	1000	170	16.0	644	11.0	9.1	97	493	319	7.8	--	--
05...	1145	165	16.0	647	11.5	7.7	83	538	--	8.0	--	--
05...	1230	165	16.0	647	11.5	--	--	529	--	7.9	--	--
05...	1630	150	18.0	647	16.0	8.8	104	500	--	8.1	--	51
05...	1840	150	17.5	647	17.0	8.7	105	519	--	8.2	--	--
05...	2025	150	11.5	648	16.0	--	--	483	--	8.2	--	53
05...	2220	145	6.5	648	16.0	7.8	92	515	--	8.2	--	--
06...	0025	145	5.0	648	14.5	7.1	82	504	--	8.1	--	35
06...	0220	140	3.5	648	13.0	6.7	75	500	--	8.0	--	--
06...	0440	140	4.5	648	11.0	6.7	71	480	--	7.8	--	52
06...	0715	135	4.5	649	10.0	8.0	82	487	--	7.8	--	--
06...	0850	135	15.0	649	10.5	8.1	85	474	--	7.8	--	43
06...	1030	145	--	649	10.5	8.2	86	455	--	7.8	--	--
06...	1300	125	19.0	649	13.0	8.8	98	458	--	8.0	--	35
AUG, 1980												
11...	1410	72	33.0	649	22.5	10.5	144	290	191	8.7	--	20
13...	1200	70	30.0	648	20.5	7.4	96	293	--	8.0	--	--
13...	1330	68	34.0	647	22.0	8.3	111	297	--	8.0	--	--
13...	1515	66	33.0	647	23.0	8.8	119	277	--	8.2	--	--
13...	1630	66	32.0	646	24.0	9.0	126	285	--	8.4	--	--
13...	1830	67	30.0	646	24.0	8.9	124	290	--	8.2	--	--
13...	2100	67	24.0	646	22.5	7.5	101	282	--	8.6	--	26
13...	2230	67	21.5	646	21.0	6.3	83	289	--	8.5	--	--
14...	0100	64	13.0	646	19.0	5.3	67	282	--	8.2	--	27
14...	0230	64	8.0	646	18.0	5.0	62	285	--	8.0	--	--
14...	0500	65	6.0	646	16.0	5.1	60	297	--	8.0	--	--
14...	0645	69	8.5	646	15.0	5.1	59	302	--	7.8	--	--
14...	0830	73	20.0	646	15.0	5.7	67	299	--	7.8	--	--
14...	1030	77	26.0	646	17.0	6.6	80	297	--	7.6	--	--
14...	1200	79	27.0	646	18.0	7.6	94	288	--	7.8	--	30

* Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0655	1.6	.08	1.5	.11	.06	.05	1.7	.24	.28
06...	1230	.98	.05	.93	.10	.04	.06	1.1	.20	.25
06...	1455	.97	.04	.93	.08	.02	.06	1.1	.19	.29
06...	1645	1.2	.03	1.2	.08	.04	.04	1.3	.23	.27
06...	2120	1.3	.06	1.2	.09	.06	.03	1.4	.25	.30
07...	0615	1.6	.10	1.5	.15	.06	.09	1.8	.24	.29
07...	1040	1.0	.07	.94	.14	.04	.10	1.1	.20	.24
07...	1630	1.2	.05	1.2	.08	.04	.04	1.3	.19	.25
07...	2050	1.1	.05	1.1	.09	.06	.03	1.2	.21	.26
AUG, 1979										
06...	1920	.60	.01	.59	.05	.02	.03	.65	.14	--
07...	1600	.82	.03	.79	.09	--	--	.91	.15	.19
JUN, 1980										
03...	1000	1.2	.14	1.1	--	.00	--	--	.17	.22
05...	1201	1.2	.07	1.1	.10	.02	.08	1.3	.19	.27
05...	1601	1.1	.04	1.1	.08	.01	.07	1.2	.18	.25
05...	2001	1.3	.03	1.3	.06	.01	.05	1.4	.18	.25
05...	2025	1.2	--	--	--	.01	--	--	.19	.29
06...	0001	1.2	.07	1.1	.09	.01	.08	1.3	.18	.25
06...	0025	1.2	.13	1.1	.08	.01	.07	1.3	.18	.26
06...	0401	1.2	.06	1.1	.10	.02	.08	1.3	.15	.22
06...	0440	1.3	.15	1.2	.15	.01	.14	1.5	.22	.23
06...	0801	1.6	.04	1.6	.10	.01	.09	1.7	.15	.20
06...	1201	1.2	.03	1.2	.09	.01	.08	1.3	.15	.19
06...	1300	1.1	.11	.99	.14	.01	.13	1.2	.18	.31
AUG, 1980										
11...	1410	1.1	.02	1.1	.08	.01	.07	1.2	.11	.12
13...	1330	1.6	.14	1.5	.13	--	--	1.7	.12	.19
13...	2100	2.7	.12	2.6	--	--	--	--	--	.18
14...	0100	2.2	.06	2.1	.11	.02	.09	2.3	.15	--
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
06...	1920	.63	.04	.59	.06	.00	.06	.69	.17	.17
07...	1600	.75	.01	.74	.10	.01	.09	.85	.17	.19
08...	0815	.79	.12	.67	.14	.02	.12	.93	.24	.24
08...	1200	.76	.09	.67	.12	.01	.11	.88	.21	.19
08...	1600	.58	.04	.54	.12	.01	.11	.70	.22	.25
08...	2000	.57	.06	.51	.06	.01	.05	.63	.20	.20
09...	0025	.66	.12	.54	.06	.02	.04	.72	.21	.22
09...	0600	.81	.16	.65	.11	.01	.10	.92	.20	.20
JUN, 1980										
03...	1000	.92	.10	.82	.14	.00	.14	1.1	.17	.18
05...	1230	1.3	.26	1.0	--	.02	--	--	.20	.19
05...	1630	1.0	.12	.88	.22	.00	.22	1.2	.18	.18
05...	2025	.91	.12	.79	.17	.01	.16	1.1	.19	.20
06...	0025	1.0	.15	.85	--	.01	--	--	--	--
06...	0440	1.0	--	--	.18	.01	.17	1.2	--	--
06...	0850	1.2	.15	1.1	.26	.01	.25	1.5	.16	--
06...	1300	1.1	.08	1.0	.13	.00	.13	1.2	.16	.14
AUG, 1980										
11...	1410	1.0	.03	.97	.11	.01	.10	1.1	.11	.13
13...	1330	1.1	.04	1.1	.12	.03	.09	1.2	.05	.13
13...	1630	1.1	.03	1.1	.08	.02	.06	1.2	.05	.15
13...	2100	1.2	.09	1.1	.07	.03	.04	1.3	.12	.19
14...	0100	1.1	.09	1.0	.09	.02	.07	1.2	.13	.17
14...	0830	.92	.07	.85	.09	.01	.08	1.0	.10	.15
14...	1200	1.9	.04	1.9	.09	.01	.08	2.0	.09	.13

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0655	--	2.1	5.4	7.5	.06	.03	--	--	10	--	2.5
06...	0950	--	2.4	6.4	9.3	.06	.03	--	--	--	--	--
06...	1230	--	3.2	8.0	10	.07	.03	--	--	10	--	.0
06...	1645	.30	4.0	9.0	11	.09	.04	--	--	--	--	--
06...	2120	.81	3.6	6.7	7.1	.14	.06	--	--	11	--	3.9
07...	0615	.82	3.8	7.0	7.5	.14	.06	--	--	--	--	--
07...	1040	.93	3.1	5.6	5.9	.15	.06	--	--	7.7	.64	1.8
07...	1420	1.2	3.2	5.9	6.3	.15	.06	--	--	6.1	1.6	--
07...	1900	.97	2.8	5.4	5.8	.13	.06	--	--	--	--	--
07...	2050	1.5	2.4	4.9	5.5	.12	.05	--	--	7.6	1.1	2.1
AUG, 1979												
06...	1920	--	3.8	9.4	12	.07	.03	3.6	6.8	7.2	--	--
07...	1600	--	5.0	7.9	8.0	.20	.09	5.2	8.7	9.0	--	--
08...	0815	.20	3.5	6.8	7.3	.13	.06	4.5	6.8	6.9	--	--
08...	1200	.04	3.1	5.7	6.0	.15	.06	--	--	--	--	--
08...	1600	--	--	--	--	--	--	3.3	5.8	6.1	--	--
08...	2000	--	2.8	5.2	5.6	.14	.06	--	--	--	--	--
09...	0025	.01	3.7	6.4	6.6	.16	.07	--	--	--	--	--
09...	0600	--	3.3	7.5	8.8	.09	.04	--	--	--	--	--
JUN, 1980												
03...	1000	.04	2.0	4.9	6.0	.08	.03	--	--	7.3	--	1.3
05...	1230	--	2.2	5.0	5.9	.09	.04	--	--	7.3	--	1.4
05...	1630	--	--	--	--	--	--	--	--	8.8	.48	--
05...	2025	--	2.0	4.1	4.6	.11	.05	--	--	7.1	--	2.5
06...	0025	--	2.2	4.8	5.6	.10	.04	--	--	7.1	.14	1.5
06...	0440	--	2.4	5.5	6.6	.09	.04	--	--	9.3	--	2.7
06...	0850	--	1.8	4.8	6.4	.07	.03	--	--	--	--	--
06...	1300	--	1.5	3.9	5.3	.07	.03	--	--	6.3	--	1.0
AUG, 1980												
11...	1410	.10	1.7	3.2	3.4	.14	.06	--	--	4.5	.15	1.1
13...	1330	--	2.6	4.7	4.9	.15	.06	--	--	6.5	--	1.6
13...	1630	--	2.5	4.9	5.4	.12	.05	--	--	8.1	--	2.7
13...	2100	.16	3.4	5.6	5.7	.18	.08	--	--	7.7	--	2.0
14...	0100	--	2.5	5.4	6.1	.11	.05	--	--	8.4	--	2.3
14...	0500	--	3.2	5.9	6.3	.14	.06	--	--	8.2	.16	1.9
14...	0830	.19	2.5	5.3	6.0	.11	.05	--	--	7.5	.16	1.5
14...	1200	.03	2.7	5.5	6.0	.12	.05	--	--	7.7	.01	1.7
DATE	TIME	CHLORO- PHYLL a, SUS- PENDE (UG/L)	CHLORO- PHYLL b, SUS- PENDE (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
06...	1920	2.12	.209	4245	428	419	--	--				
07...	1600	3.70	.468	2703	433	423	--	--				
08...	0815	3.01	.419	5648	400	383	--	--				
08...	1200	1.90	.241	6842	381	368	2908	--				
08...	1600	--	--	--	375	359	--	6.5				
08...	2000	1.21	.238	5785	377	370	1261	--				
09...	0025	1.45	.238	76550	392	281	--	--				
09...	0600	1.08	.090	13890	401	386	2345	3.6				
JUN, 1980												
03...	1000	.657	<.084	6088	295	291	--	--				
05...	1230	.947	.083	--	--	--	1590	4.4				
05...	1630	1.92	.160	--	--	--	--	--				
06...	0025	2.20	.094	4545	342	332	1246	5.6				
AUG, 1980												
11...	1410	1.65	.348	5455	641	632	--	--				
13...	1330	.892	.315	10090	693	684	1160	4.5				
13...	1630	--	--	--	--	--	1471	--				
14...	0100	2.60	.493	3846	680	670	2056	3.1				
14...	0500	--	--	--	--	--	1972	--				
14...	0830	--	--	--	--	--	1998	--				
14...	1200	--	--	--	--	--	1838	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 21 - RENO-SPARKS SEWAGE TREATMENT PLANT OUTFALL NEAR RENO

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0750	18	19.5	649	22.0	7.3	97	509	--	--	130	--
06...	1050	30	21.0	649	22.0	7.2	96	493	--	9.6	139	--
06...	1300	32	26.0	649	22.0	7.0	93	488	--	--	110	--
06...	1520	15	28.0	648	22.0	7.1	95	484	--	--	--	--
06...	1715	30	--	647	22.5	7.0	95	520	--	--	140	--
06...	2010	31	20.0	648	22.0	7.0	93	583	--	--	--	--
06...	2150	32	19.0	649	22.0	7.1	95	583	--	--	130	--
07...	0650	1	--	--	--	--	--	--	--	--	--	--
07...	0830	2	--	--	--	--	--	--	--	--	--	--
07...	1110	29	21.5	653	22.0	5.0	66	509	--	--	120	--
07...	1315	28	23.0	653	22.0	7.6	100	482	--	--	120	--
07...	1445	29	24.5	652	22.0	--	--	493	--	--	120	--
07...	1730	28	21.0	651	22.0	7.6	101	525	--	--	120	--
07...	1935	34	17.5	651	22.0	7.6	101	583	--	--	120	--
07...	2110	33	14.0	652	22.0	7.6	101	562	--	--	120	--
AUG, 1979												
06...	2030	21	--	652	26.0	6.8	98	520	314	7.9	181	--
07...	1445	34	--	650	25.5	7.2	102	450	271	8.0	120	--
08...	0900	23	23.0	652	24.5	6.7	93	500	281	8.0	--	--
08...	1030	31	25.5	653	25.0	6.6	93	495	--	8.0	--	--
08...	1230	34	31.0	652	25.0	6.4	90	495	--	8.0	--	--
08...	1430	33	--	651	25.5	6.5	94	490	--	7.8	--	--
08...	1630	32	28.0	651	26.0	6.4	93	510	307	7.7	--	--
08...	1830	28	27.0	651	25.5	6.3	91	515	--	7.7	--	--
08...	2030	31	22.5	652	25.0	6.6	93	530	358	7.9	--	--
08...	2335	32	21.0	652	24.0	6.6	92	530	--	7.8	--	--
09...	0115	31	15.0	652	24.0	6.5	90	520	282	7.8	--	--
09...	0355	31	13.0	654	24.0	6.6	92	510	--	7.8	--	--
09...	0640	32	12.0	654	24.0	6.8	94	500	278	7.8	--	--
JUN, 1980												
03...	0915	32	16.0	644	15.0	7.4	86	492	242	7.8	--	--
05...	1130	34	16.0	647	19.0	9.0	112	484	--	7.8	--	--
05...	1300	32	17.0	647	--	8.8	--	507	--	7.9	--	10
05...	1615	30	18.0	647	19.5	--	--	483	--	7.7	--	11
05...	1830	35	17.5	647	20.0	8.5	109	512	--	7.7	--	--
05...	2000	35	11.5	648	19.0	8.6	108	538	--	7.7	--	10
05...	2200	44	6.5	648	19.0	8.6	108	535	--	7.8	--	--
06...	0001	35	5.0	648	18.5	8.8	109	515	--	7.7	--	13
06...	0210	34	3.5	648	18.0	8.6	106	520	--	7.7	--	--
06...	0435	32	4.5	648	18.0	8.6	106	526	--	7.7	--	20
06...	0650	24	4.5	649	17.0	8.6	104	498	--	7.8	--	--
06...	0825	17	--	649	18.0	8.3	102	506	--	7.4	--	16
06...	1020	33	13.5	649	18.5	8.6	107	488	--	7.8	--	--
AUG, 1980												
11...	1300	35	34.0	648	24.0	9.0	125	544	267	7.8	--	15
13...	1030	36	25.0	648	24.0	8.5	118	540	--	7.6	--	--
13...	1245	37	35.0	648	24.5	8.4	117	525	--	7.5	--	7.8
13...	1445	33	35.0	646	24.5	7.4	103	541	--	7.7	--	--
13...	1600	35	35.0	646	25.0	7.2	102	562	--	7.7	--	--
13...	1800	36	31.0	645	24.5	7.4	102	594	--	7.7	--	--
13...	2015	36	26.0	646	24.0	7.4	103	599	--	7.6	--	9.4
13...	2200	36	23.0	646	23.5	7.4	101	614	--	7.7	--	--
13...	2400	40	20.0	645	23.0	7.5	103	610	--	7.6	--	--
14...	0200	37	8.5	646	22.5	7.6	101	621	--	7.7	--	--
14...	0430	34	9.5	645	22.0	7.7	103	573	--	7.7	--	11
14...	0600	19	8.0	645	22.0	7.5	100	579	--	7.7	--	--
14...	0800	25	19.0	646	22.0	7.4	99	568	--	7.8	--	9.2
14...	1000	36	27.0	646	22.0	7.6	101	536	--	7.6	--	--
14...	1130	37	27.0	646	23.0	7.4	101	541	--	7.6	--	14

* Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 21 - RENO-SPARKS SEWAGE TREATMENT PLANT OUTFALL NEAR RENO--Continued

DATE	TIME	NITRO- GEN, NH ₄ + TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0750	12	11	1.0	1.7	1.1	.60	14	5.4	6.2
06...	1050	12	11	1.0	2.9	2.3	.60	15	3.8	4.2
06...	1300	10	10	.00	3.9	3.1	.80	14	3.8	4.3
06...	1715	16	16	.00	2.6	2.2	.40	19	—	5.5
06...	2150	15	14	1.0	1.9	2.0	.00	17	6.1	6.8
07...	1110	11	11	.00	1.6	1.7	.00	13	5.6	6.9
07...	1315	11	10	1.0	1.5	1.8	.00	13	3.6	4.0
07...	1445	—	—	—	1.9	—	—	—	3.8	4.8
07...	1730	15	15	.00	1.7	1.7	.00	17	5.7	7.8
07...	1935	15	15	.00	2.1	2.1	.00	17	5.4	6.9
07...	2110	15	15	.00	2.5	2.5	.00	18	5.7	6.8
JUN, 1980										
03...	0915	—	12	—	.23	.20	.03	—	5.3	5.0
05...	2000	23	16	7.0	.67	.21	.46	24	—	6.8
06...	0001	19	15	4.0	.19	.17	.02	19	5.5	7.4
06...	0435	19	12	7.0	—	.38	—	—	5.5	5.4
AUG, 1980										
11...	1300	21	—	—	.14	.14	.00	21	4.3	4.4
13...	1245	16	—	—	.12	.12	.00	16	—	3.0
13...	2015	29	—	—	.12	.17	.00	29	4.0	6.3
13...	2400	15	—	—	.12	.13	.00	15	5.5	5.7
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
07...	1445	15	13	2.0	.17	.14	.03	15	2.0	1.9
08...	0900	16	14	2.0	.22	.19	.03	16	—	—
08...	1230	15	12	3.0	.16	.14	.02	15	3.7	4.4
08...	1630	19	16	3.0	.15	.14	.01	19	2.3	2.7
08...	2030	18	16	2.0	.17	.15	.02	16	3.9	4.2
09...	0115	16	14	2.0	.14	.15	.00	14	—	4.5
09...	0640	15	12	3.0	.15	.15	.00	12	3.9	3.9
JUN, 1980										
03...	0915	—	12	—	.33	.19	.14	—	4.3	4.6
05...	1300	—	12	—	.67	.42	.25	—	3.3	3.1
05...	1615	18	16	2.0	.56	.35	.21	19	3.5	3.5
05...	2000	17	16	1.0	.73	.22	.51	18	—	5.0
06...	0001	17	14	3.0	.22	.19	.03	17	—	6.9
06...	0435	16	14	2.0	.36	.20	.16	16	5.5	5.4
AUG, 1980										
11...	1300	16	—	—	.15	.14	.01	16	—	3.6
13...	1245	11	—	—	.11	.13	.00	11	1.6	2.1
13...	1600	19	—	—	.13	.18	.00	19	1.8	2.1
13...	2015	20	—	—	.11	.10	.01	20	3.9	4.1
13...	2400	16	—	—	.11	.18	.00	16	5.1	5.4
14...	0430	13	—	—	.10	.15	.00	13	5.4	5.6
14...	0800	12	—	—	.22	.20	.02	12	—	—
14...	1130	12	—	—	.14	.14	.00	12	1.1	2.6

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 21 - RENO-SPARKS SEWAGE TREATMENT PLANT OUTFALL NEAR RENO--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0750	--	3.2	8.7	13	.06	.03	--	--	88	4.2	75
06...	1050	--	--	--	--	--	--	--	--	75	1.3	--
06...	1300	1.7	6.9	19	30	.05	.02	--	--	71	1.6	41
06...	1715	--	3.1	9.6	18	.04	.02	--	--	89	2.8	71
06...	2150	--	4.6	15	37	.03	.01	--	--	81	1.8	44
07...	1110	.48	5.1	12	17	.07	.03	--	--	--	--	--
07...	1445	.92	4.7	14	23	.04	.02	--	--	80	2.8	57
07...	1935	1.1	4.8	15	27	.04	.02	--	--	92	2.4	65
07...	2110	.16	4.4	14	27	.04	.02	--	--	90	1.6	63
AUG, 1979												
06...	2030	.11	4.5	11	14	.08	.03	--	--	109	12	95
07...	1445	--	10	23	27	.09	.04	--	--	57	6.9	29
08...	0900	.29	8.2	25	46	.04	.02	--	--	98	2.0	51
08...	1230	.31	15	30	33	.13	.06	--	--	87	6.9	53
08...	1630	.53	6.3	18	47	.04	.02	--	--	65	5.2	18
08...	2030	.47	8.1	22	44	.05	.02	--	--	70	7.0	26
09...	0115	--	7.2	21	35	.04	.02	--	--	82	4.0	46
09...	0640	.27	4.9	10	12	.10	.04	--	--	83	4.7	71
JUN, 1980												
03...	0915	.25	11	27	34	.08	.03	--	--	57	9.3	23
05...	1300	.13	11	27	35	.08	.03	--	--	67	2.8	32
05...	1615	.83	9.9	24	32	.08	.03	--	--	--	--	--
05...	2000	.17	8.4	22	30	.06	.03	--	--	97	--	67
06...	0001	--	9.9	25	34	.07	.03	--	--	91	--	57
06...	0435	.01	10	29	43	.06	.03	--	--	98	2.4	55
06...	0825	--	14	31	36	.10	.04	--	--	89	--	53
AUG, 1980												
11...	1300	.42	8.3	21	28	.07	.03	--	--	69	13	40
13...	1245	.58	10	26	35	.06	.03	--	--	--	--	--
13...	1600	.32	9.8	24	31	.08	.03	--	--	--	--	--
13...	2015	.42	13	33	43	.07	.03	--	--	99	7.6	56
13...	2400	.77	13	33	45	.07	.03	--	--	--	--	--
14...	0430	.39	11	31	46	.05	.02	--	--	121	7.9	75
14...	0800	.35	10	26	35	.07	.03	--	--	104	7.1	69
14...	1130	.45	13	32	39	.08	.03	--	--	115	8.7	76
DATE	TIME	CHLORO- PHYLL a, SUS- PENDE		CHLORO- PHYLL b, SUS- PENDE		BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
		(UG/L)	(UG/L)	(UG/L)	(UG/L)							
AUG, 1979												
06...	2030	--	--	--	--	436	420	--	--	--		
07...	1445	2.61	.468	4981	423	410	--	--	--	--		
08...	0900	.531	.209	30130	379	363	--	--	--	--		
08...	1230	.874	.048	19450	361	344	--	--	--	--		
08...	1630	--	--	--	354	340	--	--	--	--		
08...	2030	<.246	<.224	<28460	279	272	--	--	--	--		
09...	0115	<.246	<.224	<40650	367	357	--	--	--	--		
09...	0640	--	--	--	--	--	--	--	54	--		
JUN, 1980												
03...	0915	--	--	--	--	--	--	--	140	--		
05...	1300	--	--	--	--	--	--	--	123	--		
AUG, 1980												
13...	1245	.337	.050	20770	672	665	--	--	--	--		
13...	2400	<.229	--	--	687	671	--	--	11	--		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 22 - TRUCKEE RIVER AT VISTA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0640	450	17.0	650	16.0	—	—	156	—	—	60	—
06...	0840	500	19.0	650	15.0	7.3	85	152	—	—	58	—
06...	1035	545	23.5	650	16.0	—	—	160	—	—	—	—
06...	1225	560	26.0	650	17.0	8.2	99	160	—	—	57	—
06...	1405	560	28.0	650	18.5	8.6	108	162	—	—	58	—
06...	1610	540	26.0	650	19.5	8.4	106	155	—	—	57	—
06...	1750	515	25.5	650	20.0	8.1	104	157	—	—	60	—
06...	1930	520	23.5	650	18.5	7.8	98	164	—	—	65	—
06...	2105	490	19.5	650	18.5	7.5	94	162	—	—	59	—
07...	0605	425	9.5	650	14.0	7.2	82	167	—	—	51	—
07...	0755	435	10.0	650	13.0	7.3	81	150	—	—	—	—
07...	1000	470	15.0	650	13.5	8.2	92	140	—	—	48	—
07...	1155	510	18.0	650	15.0	8.8	102	156	—	—	—	—
07...	1350	510	17.5	650	16.0	9.4	111	155	—	—	50	—
07...	1540	490	17.0	650	17.5	9.4	115	159	—	—	—	—
07...	1800	455	18.5	650	18.5	9.1	114	159	—	—	50	—
07...	1945	440	17.5	650	18.0	8.7	107	170	—	—	—	—
07...	2130	425	—	650	17.0	8.1	98	173	—	—	—	—
AUG, 1979												
08...	0825	280	24.5	653	18.5	6.2	76	246	—	7.8	—	—
08...	1000	285	25.0	653	19.0	6.6	82	244	—	7.8	—	—
08...	1215	290	29.0	652	20.5	7.5	96	240	—	7.9	68	—
08...	1400	285	30.0	651	22.0	7.2	96	244	—	7.9	—	—
08...	1610	280	29.0	651	24.0	8.2	114	253	145	8.3	70	—
08...	1805	270	25.5	651	24.5	8.0	111	244	—	8.4	—	—
08...	2020	270	26.0	652	24.0	7.0	96	245	145	8.3	—	—
08...	2215	265	23.0	653	23.0	6.6	89	250	—	7.9	—	—
09...	0015	260	15.5	653	21.0	6.0	78	250	153	7.8	—	—
09...	0205	260	13.5	654	20.5	5.8	74	222	—	7.5	—	—
09...	0415	265	—	654	18.5	5.4	67	226	152	7.5	—	—
09...	0610	270	14.5	654	18.5	5.8	71	251	—	—	—	—
09...	0755	270	17.0	654	19.0	5.8	72	252	152	7.4	—	—
JUN, 1980												
03...	1205	2130	15.0	645	10.0	10.0	80	121	81	7.5	—	—
05...	1125	2090	18.0	646	10.5	9.8	103	111	—	7.8	—	—
05...	1400	2060	19.5	646	12.0	9.8	107	107	—	8.1	—	13
05...	1535	2050	20.0	646	12.5	9.4	104	113	—	8.0	—	—
05...	1730	2020	16.5	646	12.0	9.6	105	106	—	8.0	—	15
05...	1900	2000	13.5	646	—	9.4	—	116	—	8.2	—	—
05...	2130	1990	9.0	646	11.0	8.9	95	120	—	8.1	—	19
05...	2305	1990	6.5	647	11.0	9.1	97	123	—	8.0	—	—
06...	0130	1990	6.0	647	10.0	9.5	99	121	—	7.9	—	12
06...	0330	1990	3.5	646	9.5	9.4	97	118	—	7.9	—	—
06...	0510	1990	4.5	648	9.0	9.4	95	115	—	7.5	—	11
06...	0855	1960	16.5	649	10.0	9.4	97	112	—	7.5	—	10
06...	1215	2050	16.5	647	12.5	9.8	108	114	—	8.1	—	12
AUG, 1980												
13...	0945	ø300	21.5	ø648	17.0	6.7	81	215	—	7.8	—	—
13...	1200	ø300	26.0	ø648	19.5	7.4	94	245	—	7.9	—	6.2
13...	1400	ø305	33.0	ø647	21.0	8.2	108	229	—	8.0	—	—
13...	1600	ø300	34.5	ø646	22.5	8.4	114	233	—	8.3	—	4.9
13...	1815	ø295	26.5	ø645	23.0	8.5	115	240	—	8.4	—	—
13...	2000	ø295	25.0	ø646	22.0	7.7	103	242	—	8.5	—	—
13...	2215	ø300	18.0	ø646	21.0	7.4	97	252	—	8.5	—	—
13...	2400	ø300	16.5	ø645	20.0	6.5	83	250	—	8.5	—	—
14...	0215	ø310	11.0	ø646	19.0	6.0	75	253	—	—	—	—
14...	0415	ø300	8.5	ø645	18.0	6.0	74	247	—	8.0	—	8.7
14...	0800	ø305	9.5	ø646	16.0	6.4	75	234	—	7.8	—	—
14...	1000	ø320	20.0	ø646	16.5	6.6	79	233	—	7.8	—	—
14...	1200	ø325	26.5	ø646	18.5	7.1	88	249	—	7.9	—	—

ø Estimated.

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 22 - TRUCKEE RIVER AT VISTA—Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0640	1.0	.52	.48	.13	.10	.03	1.1	.28	.39
06...	1035	.95	.54	.41	.15	.14	.01	1.1	.29	.35
06...	1225	.88	.53	.35	.25	.26	.00	1.1	.25	.34
06...	1405	.91	.52	.39	.29	.28	.01	1.2	.25	.31
06...	1610	.99	.61	.38	.28	.28	.00	1.3	.29	.35
06...	1750	1.2	.76	.44	.23	.25	.00	1.4	.32	.41
06...	1930	1.2	.84	.36	.18	.19	.00	1.4	.36	.43
06...	2105	1.3	.90	.40	.17	.18	.00	1.5	.39	.49
07...	0605	.57	.57	.00	.32	.12	.20	.89	.56	.52
07...	1000	.37	—	—	.08	.06	.02	.45	.04	.06
07...	1350	.98	.58	.40	.18	.14	.04	1.2	.30	.35
07...	1800	1.3	.78	.52	.26	.25	.01	1.6	.38	.53
JUN, 1980										
03...	1205	.72	.23	.49	—	—	—	—	.08	.11
05...	1400	.64	.26	.38	—	.01	—	—	.08	.16
05...	2130	.87	.30	.57	.10	.01	.09	.97	.10	.07
06...	0510	.70	.28	.42	.09	.02	.07	.79	.11	.14
06...	1215	.60	.25	.35	.07	.01	.06	.67	.07	.12
AUG, 1980										
13...	1200	—	1.30	—	.18	.03	.15	—	.45	.53
13...	2400	2.6	.89	1.7	.17	.06	.11	2.8	.62	.76
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS, (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
08...	0825	1.5	.97	.53	.16	.04	.12	1.7	.64	.82
08...	1215	1.8	1.4	.40	.18	.04	.14	2.0	.68	.72
08...	1610	1.8	1.5	.30	.19	.05	.14	2.0	.47	.97
08...	2020	2.1	1.7	.40	.18	.06	.12	2.3	.37	.42
09...	0015	2.1	1.8	.30	.18	.06	.12	2.3	.58	.57
09...	0415	2.0	1.7	.30	.21	.05	.16	2.2	.57	.60
09...	0755	1.9	1.5	.40	.18	.05	.13	2.1	.53	—
JUN, 1980										
03...	1205	—	—	—	.19	.04	.15	—	—	—
05...	1400	—	—	—	.30	.01	.29	—	.10	.08
05...	1730	.60	.42	.18	.33	.00	.33	.94	.08	.07
05...	2130	.74	.22	.52	.11	.01	.10	.85	.13	.10
06...	0130	.47	.35	.12	—	.01	—	—	.14	.11
06...	0510	.59	—	—	—	.02	—	—	.12	.11
06...	0855	—	.25	—	—	.00	—	—	.08	.06
06...	1215	.59	—	—	—	.01	—	—	.10	.07
AUG, 1980										
13...	1200	—	—	—	.18	.04	.14	—	.42	.42
13...	1600	—	—	—	.18	.07	.11	—	.18	.27
13...	2000	—	—	—	.12	.05	.07	—	.26	.29
13...	2400	—	—	—	—	.08	—	—	.61	.64
14...	0415	—	—	—	.15	.05	.10	—	.69	.72
14...	0800	—	—	—	.14	.04	.10	—	.42	.44
14...	1200	—	—	—	.17	.06	.11	—	.38	.47

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 22 - TRUCKEE RIVER AT VISTA--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0640	---	.9	2.1	2.6	.08	.03	---	---	---	---	---
06...	1035	---	.7	1.5	1.7	.12	.05	---	---	---	---	---
06...	1405	3.7	1.4	2.8	3.1	.12	.05	---	---	9.2	4.3	6.1
06...	1750	5.0	1.0	2.4	3.0	.09	.04	---	---	1.0	5.0	8.0
06...	2105	5.0	.7	1.6	1.9	.10	.04	---	---	8.8	8.0	6.9
07...	0605	2.6	1.9	3.0	3.1	.19	.08	---	---	8.2	4.0	5.2
07...	1000	2.6	.8	1.6	1.8	.12	.05	---	---	2.9	5.4	1.1
07...	1350	3.7	1.0	1.6	1.7	.17	.07	---	---	11	2.2	9.3
07...	1800	3.0	1.1	1.7	1.7	.22	.09	---	---	7.1	7.4	5.4
07...	2130	2.3	1.3	2.6	3.0	.11	.05	---	---	12	2.9	9.0
AUG, 1979												
08...	0825	.28	3.2	5.8	6.1	.15	.06	---	---	---	---	---
08...	1215	.02	3.0	5.7	6.0	.14	.06	---	---	---	---	---
08...	1610	---	3.2	6.1	6.5	.14	.06	---	---	---	---	---
08...	2020	---	3.0	5.7	6.1	.14	.06	---	---	---	---	---
09...	0015	---	2.9	5.8	6.3	.12	.05	---	---	---	---	---
09...	0415	---	2.9	5.8	6.3	.13	.06	---	---	---	---	---
09...	0755	---	2.5	4.7	5.0	.13	.06	---	---	---	---	---
JUN, 1980												
03...	1205	---	1.0	2.2	2.7	.09	.04	---	---	---	---	---
05...	1400	---	.9	2.2	2.7	.09	.04	---	---	---	---	---
05...	1730	---	1.1	2.3	2.7	.10	.04	---	---	---	---	---
05...	2130	---	1.3	2.5	2.7	.13	.06	---	---	---	---	---
06...	0130	---	.7	1.9	2.5	.07	.03	---	---	---	---	---
06...	0510	---	.8	2.0	2.4	.09	.04	---	---	---	---	---
06...	0855	---	.9	1.8	2.0	.12	.05	---	---	---	---	---
06...	1215	---	.8	1.9	2.2	.10	.04	---	---	---	---	---
AUG, 1980												
13...	1200	.13	3.2	6.3	6.9	.12	.05	---	---	---	---	---
13...	1600	---	2.9	5.7	6.1	.13	.06	---	---	---	---	---
13...	2000	.06	3.1	5.5	5.7	.16	.07	---	---	---	---	---
13...	2400	.08	3.5	6.7	7.3	.14	.06	---	---	---	---	---
14...	0415	.08	2.7	5.8	6.7	.10	.04	---	---	---	---	---
14...	0800	.33	2.8	5.2	5.4	.15	.06	---	---	---	---	---
14...	1200	.27	2.5	5.0	5.4	.13	.06	---	---	---	---	---
		CHLORO- PHYLL α , SUS- PENDEED (UG/L)	CHLORO- PHYLL β , SUS- PENDEED (UG/L)	BIOMASS/ PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
08...	0825	1.06	.105	14150	392	377	---	---				
08...	1215	.269	.048	59480	377	361	---	---				
08...	1610	.263	<.181	53230	370	356	---	---				
08...	2020	.614	.224	11400	307	300	---	---				
09...	0015	.368	.224	5435	374	372	---	---				
09...	0415	.731	<.207	13680	374	364	---	---				
09...	0755	.420	.181	3095	364	351	---	---				
JUN, 1980												
03...	1205	.339	<.087	11800	347	343	---	9.9	---			
05...	1400	---	---	---	---	---	458	7.8	---			
06...	0130	.565	.097	7080	302	298	483	12	---			
AUG, 1980												
13...	1200	---	---	---	---	---	1071	55	---			
13...	1600	---	---	---	---	---	692	---	---			
13...	2000	---	---	---	---	---	1162	---	---			
13...	2400	.364	<.207	90660	698	665	950	42	---			
14...	0415	---	---	---	---	---	1161	---	---			
14...	0800	---	---	---	---	---	1204	---	---			
14...	1200	---	---	---	---	---	1059	---	---			

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 23 - TRUCKEE RIVER AT LOCKWOOD

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0715	a470	19.5	650	17.0	7.0	96	169	—	7.8	62	—
06...	0915	—	21.5	650	16.5	7.7	92	156	—	7.9	60	—
06...	1115	540	24.5	650	17.0	8.2	99	152	—	7.9	57	—
06...	1310	—	27.0	650	18.0	8.6	106	162	—	8.1	56	—
06...	1455	—	28.5	650	19.0	8.2	102	163	—	7.8	56	—
06...	1640	—	28.0	650	19.5	8.0	101	161	—	—	—	—
06...	1835	—	26.5	650	19.5	7.8	99	165	—	8.3	56	—
06...	2005	—	23.5	650	19.0	7.3	91	161	—	8.3	56	—
06...	2150	—	19.0	650	18.5	7.2	90	163	—	8.3	56	—
07...	0655	—	11.0	650	15.0	7.2	90	174	—	—	52	—
07...	0820	—	12.5	650	14.5	7.7	88	168	—	—	—	—
07...	1055	—	17.0	650	15.0	9.0	105	145	—	—	48	—
07...	1230	—	19.5	650	15.5	9.3	108	144	—	—	—	—
07...	1430	—	22.0	650	17.0	9.4	113	158	—	—	51	—
07...	1610	—	19.0	650	17.5	9.2	112	157	—	—	—	—
07...	1845	—	16.5	650	18.0	8.7	107	160	—	—	49	—
07...	2020	—	16.0	650	17.5	7.9	96	160	—	—	—	—
07...	2215	—	12.0	650	17.0	7.6	92	166	—	—	—	—
AUG, 1979												
07...	1100	—	—	—	21.0	7.7	—	258	148	7.8	74	—
07...	2009	—	—	e650	22.0	6.6	88	230	140	7.7	—	—
08...	0900	a255	24.5	653	20.0	6.8	87	256	—	7.7	—	—
08...	1100	263	28.0	653	21.0	7.3	96	246	—	7.9	—	—
08...	1300	—	28.5	652	21.5	7.8	104	243	—	8.0	67	—
08...	1510	—	—	651	21.5	7.2	96	235	—	7.9	—	—
08...	1700	—	25.0	651	24.0	7.0	97	230	—	7.9	69	—
08...	1900	—	26.5	651	23.5	6.5	90	247	—	7.8	—	—
08...	2115	—	23.0	652	24.0	5.1	71	245	—	7.4	—	—
08...	2300	—	22.0	653	22.5	5.1	68	250	—	7.3	—	—
09...	0100	—	21.0	653	21.0	4.6	61	255	—	7.3	—	—
09...	0230	—	19.5	653	21.0	4.5	59	252	—	7.2	—	—
09...	0500	—	15.5	654	19.0	4.6	58	259	—	7.2	—	—
09...	0630	—	21.5	654	19.5	4.6	59	261	—	7.1	—	—
09...	0830	—	26.0	655	20.0	6.2	79	258	—	7.2	—	—
JUN, 1980												
05...	1010	a1990	15.0	e648	9.5	9.0	92	109	—	7.6	—	—
05...	1210	—	17.5	e648	10.5	9.4	98	109	—	7.7	—	—
05...	1350	—	17.0	e648	11.0	9.7	103	115	—	7.7	—	—
05...	1600	—	—	e648	11.0	9.6	102	121	—	7.8	—	21
05...	1805	—	17.0	e648	12.0	9.2	100	113	—	7.7	—	—
05...	2025	—	10.5	e648	12.0	9.2	100	113	—	7.7	—	17
05...	2215	—	10.5	e648	11.5	8.6	92	112	—	7.7	—	—
05...	2400	—	8.0	e647	11.5	8.8	95	109	—	7.6	—	12
06...	0420	—	4.0	e647	10.0	8.9	92	114	—	7.5	—	—
06...	0605	—	3.5	e647	10.0	9.3	96	114	—	7.5	—	—
06...	0755	—	6.5	e652	9.0	9.4	95	117	—	7.6	—	13
06...	1005	—	14.5	e653	10.0	9.4	97	102	—	7.6	—	—
06...	1200	—	17.0	e653	10.5	9.8	103	109	—	7.7	—	12
AUG, 1980												
11...	1620	—	35.0	e649	22.0	8.2	109	236	152	8.2	—	—
13...	1100	a285	24.5	e649	19.0	7.7	96	—	—	7.9	—	—
13...	1300	—	34.0	e649	20.5	8.0	104	234	—	8.0	—	5.3
13...	1445	—	36.0	e649	22.0	8.0	107	246	—	8.0	—	—
13...	1700	—	31.0	e647	22.0	7.4	99	234	—	8.1	—	7.4
13...	1845	—	31.0	e647	22.5	7.0	93	241	—	8.0	—	—
13...	2045	—	24.5	e647	22.0	6.4	85	244	—	7.9	—	—
14...	0100	—	19.0	e647	21.0	6.0	79	254	—	8.1	—	—
14...	0300	—	19.0	e647	20.0	6.1	78	252	—	8.1	—	—
14...	0500	—	9.0	e647	17.5	5.6	68	254	—	7.9	—	11
14...	0715	—	18.5	e647	18.0	6.0	74	250	—	7.8	—	—
14...	0900	—	20.0	e647	18.0	6.5	80	249	—	7.8	—	—
14...	1045	—	26.5	e647	18.0	7.5	93	253	—	7.8	—	—
14...	1245	—	33.0	e647	18.5	7.9	98	237	—	7.8	—	—

a Average streamflow estimated for the synoptic sampling period.

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 23 - TRUCKEE RIVER AT LOCKWOOD--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979									
06...	0715	1.3	.84	.46	.23	.14	.09	1.5	.44
06...	0915	.87	.47	.40	.17	.08	.09	1.0	.26
06...	1115	.81	.47	.44	.15	.08	.07	.96	.21
06...	1310	1.1	.57	.53	.21	.16	.05	1.3	.28
06...	1455	.95	.49	.46	.29	.23	.05	1.2	.24
06...	1640	.96	.50	.46	.33	.27	.06	1.3	.25
06...	1835	1.1	.60	.50	.33	.27	.06	1.5	.28
06...	2005	1.1	.70	.40	.31	.23	.08	1.4	.30
06...	2150	1.3	.83	.47	.27	.21	.06	1.6	.25
07...	0655	.62	.63	.00	.42	.04	.38	1.0	.55
07...	1055	.28	.11	.17	.14	.12	.02	.42	.08
07...	1430	1.3	.58	.72	.18	.14	.04	1.5	.36
07...	1845	1.3	.62	.68	.26	.04	.22	1.6	.29
AUG, 1979									
07...	1100	1.9	1.3	.60	.46	.33	.13	2.4	—
07...	2009	2.0	1.1	.90	.54	—	—	2.5	.30
JUN, 1980									
05...	1210	1.1	—	—	—	.02	—	—	.12
05...	2025	—	.36	—	—	.01	—	—	.09
06...	0420	.87	.39	.48	.21	.01	.20	1.1	.11
06...	1200	1.0	.26	.74	.51	.01	.50	1.5	.09
AUG, 1980									
11...	1620	1.8	1.20	.60	.38	.08	.30	2.2	.39
13...	1300	1.8	—	—	.33	.06	.27	2.1	.52
14...	0100	1.7	—	—	.45	.11	.34	2.2	.54

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORTHO, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
07...	2009	1.7	1.2	.50	.49	.15	.34	2.2	.28	.35
08...	0900	1.8	1.3	.50	.46	.15	.31	2.3	—	—
08...	1300	1.2	.79	.41	.43	.10	.33	1.6	.76	.79
08...	1700	1.6	.99	.61	.53	.14	.39	2.1	.57	—
08...	2115	1.6	1.2	.40	.60	.19	.41	2.2	.38	.41
09...	0100	1.6	1.3	.30	.58	.19	.39	2.2	.44	.48
09...	1500	1.9	1.5	.40	.55	.17	.38	2.5	.60	.59
09...	0830	1.5	1.2	.30	.56	.15	.41	2.1	.58	.60
JUN, 1980										
05...	1210	.58	.34	.24	.23	.01	.22	.81	.11	.09
05...	1600	—	.26	—	.23	.01	.22	—	.10	.08
05...	2025	.67	.39	.28	.27	.01	.26	.94	.12	.11
05...	2400	—	.37	—	—	.00	—	—	.13	.11
06...	0420	—	.32	—	.14	.01	.13	—	.13	.15
06...	0755	.59	.30	.29	—	.01	—	—	.13	.10
06...	1200	.59	.30	.29	.18	.01	.17	.77	.11	.10
AUG, 1980										
11...	1620	.99	.63	.36	.40	.09	.31	1.4	.38	.39
13...	1300	1.6	—	—	.35	—	—	2.0	.45	.54
13...	1700	—	—	—	.39	.12	.27	—	.28	.33
13...	2045	1.3	—	—	.45	.14	.31	1.8	.24	.30
14...	0100	1.7	.62	1.1	.46	—	—	2.2	.52	.53
14...	0500	—	—	—	—	.03	—	—	.13	.18
14...	0900	—	—	—	.31	.10	.21	—	.70	.74
14...	1245	—	—	—	.34	.10	.24	—	.36	.43

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 23 - TRUCKEE RIVER AT LOCKWOOD—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0715	—	1.6	3.8	4.7	.08	.03	—	—	9.1	1.1	4.4
06...	1115	—	1.2	2.5	2.8	.12	.05	—	—	9.0	.34	6.2
06...	1455	—	1.3	3.0	3.7	.08	.03	—	—	7.8	.29	4.1
06...	1835	1.6	1.6	3.2	3.5	.13	.06	—	—	9.6	.84	6.1
06...	2150	—	1.5	3.8	4.8	.07	.03	—	—	9.6	1.2	4.8
07...	0655	.95	2.1	3.9	4.1	.14	.06	—	—	9.9	1.2	5.8
07...	1055	1.4	1.9	3.2	3.3	.18	.08	—	—	3.6	1.4	.3
07...	1430	.82	1.6	3.4	3.8	.11	.05	—	—	7.8	1.2	4.0
07...	1845	.32	1.6	3.2	3.4	.12	.05	—	—	10	.72	6.6
07...	2215	1.7	1.3	2.7	3.0	.12	.05	—	—	12	1.6	9.0
AUG, 1979												
07...	2009	—	3.4	6.0	6.2	.16	.07	—	—	—	—	—
08...	0900	—	3.3	6.3	6.7	.14	.06	—	—	—	—	—
08...	1300	.11	2.6	4.5	4.6	.17	.07	—	—	—	—	—
08...	2115	.22	2.4	4.2	4.4	.16	.07	—	—	—	—	—
09...	0500	—	2.4	5.0	5.6	.11	.05	—	—	—	—	—
09...	0830	—	2.2	4.4	4.8	.12	.05	—	—	—	—	—
JUN, 1980												
05...	1210	—	.9	2.1	2.5	.09	.04	—	—	4.5	.54	2.0
05...	1600	—	1.1	2.0	2.1	.15	.06	—	—	4.0	.17	1.9
05...	2025	.35	1.2	2.7	3.0	.10	.04	—	—	3.9	.55	.9
05...	2400	.71	1.0	2.1	2.3	.11	.05	—	—	4.8	.92	2.5
06...	0420	—	—	—	—	—	—	—	—	3.3	—	—
06...	0755	—	.8	1.8	2.2	.08	.03	—	—	4.3	.02	2.1
06...	1200	.76	1.0	1.8	2.0	.14	.06	—	—	2.9	—	.9
AUG, 1980												
11...	1620	.05	1.6	3.3	3.6	.12	.05	—	—	10	4.5	6.4
13...	1300	.40	2.6	5.0	5.4	.13	.06	—	—	11	3.4	5.6
13...	1700	—	2.3	4.5	5.0	.12	.05	—	—	14	1.2	9.0
13...	2045	—	2.5	4.6	4.9	.14	.06	—	—	14	1.9	9.1
14...	0100	—	2.9	5.5	5.8	.14	.06	—	—	16	4.0	10
14...	0500	.02	2.9	5.4	5.7	.15	.06	—	—	18	5.9	12
14...	0900	.28	3.2	6.2	6.7	.13	.06	—	—	14	4.8	7.3
14...	1245	.01	2.8	5.4	5.8	.13	.06	—	—	—	—	—
DATE	TIME	CHLORO- PHYLL a, SUS- PENDED (UG/L)		CHLORO- PHYLL b, SUS- PENDED (UG/L)		BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
AUG, 1979												
07...	2009	2.39	.234	3766	421	412	—	—	—	—		
08...	0900	2.83	.209	3534	378	368	—	—	—	—		
08...	1300	2.71	.410	5166	374	360	724	—	—	—		
08...	1700	.525	.018	22860	369	357	559	54	—	—		
08...	2115	.982	.067	79430	389	311	549	—	—	—		
09...	0100	1.47	.112	6803	380	370	658	—	—	—		
09...	0500	.784	.169	16580	364	351	513	54	—	—		
09...	0830	1.37	.145	8029	371	360	650	—	—	—		
JUN, 1980												
05...	1210	1.28	.201	3906	293	288	355	9.2	—	—		
05...	2400	—	—	—	—	—	596	9.1	—	—		
AUG, 1980												
11...	1620	1.26	.266	7937	—	—	—	—	—	—		
13...	1300	—	—	—	—	—	1281	52	—	—		
13...	1700	—	—	—	—	—	951	—	—	—		
13...	2045	—	—	—	—	—	1016	—	—	—		
14...	0100	.519	<.197	19270	683	673	955	58	—	—		
14...	0500	—	—	—	—	—	1312	—	—	—		
14...	0900	—	—	—	—	—	1337	—	—	—		
14...	1245	—	—	—	—	—	1315	—	—	—		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 27 - TRUCKEE RIVER AT PATRICK

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0545	a455	15.5	650	16.5	7.5	89	173	--	7.2	62	--
06...	0715	--	18.0	650	16.0	7.0	82	184	--	7.4	59	--
06...	0948	--	19.0	650	18.0	7.6	94	175	--	7.9	66	--
06...	1120	--	24.5	650	20.5	8.2	106	166	--	8.0	61	--
06...	1355	--	--	650	19.0	8.4	105	159	--	--	--	--
06...	1520	--	26.0	650	19.0	8.7	109	158	--	8.5	53	--
06...	2055	--	14.5	650	18.0	7.6	94	161	--	8.0	55	--
07...	0600	--	7.5	650	15.5	7.2	84	166	--	--	48	--
07...	0720	--	10.0	650	15.0	7.0	81	153	--	--	--	--
07...	0945	--	12.5	650	15.5	8.0	93	171	--	--	48	--
07...	1120	--	13.5	650	16.0	8.6	101	169	--	--	--	--
07...	1350	--	16.0	650	17.5	9.1	108	151	--	--	--	--
07...	1520	--	19.0	650	17.5	9.2	112	148	--	--	48	--
07...	1745	--	18.0	650	18.0	8.8	109	155	--	--	50	--
07...	1920	--	15.0	650	16.5	8.4	100	155	--	--	50	--
07...	2030	--	12.5	650	16.0	8.0	94	157	--	--	--	--
AUG, 1979												
08...	0830	a260	27.0	#655	20.0	5.6	72	244	--	7.5	82	--
08...	1015	--	26.0	#655	20.0	6.9	88	253	157	7.8	86	--
08...	1300	--	28.0	#654	23.0	8.6	116	258	154	8.1	84	--
08...	1500	--	28.0	#653	24.0	9.0	125	255	148	8.5	83	--
08...	1700	--	--	#653	24.0	8.3	119	245	145	8.6	84	--
08...	1900	--	--	#653	23.0	7.1	96	242	148	8.2	84	--
08...	2100	--	26.0	656	21.5	5.8	77	229	--	7.7	83	--
09...	0045	--	23.0	655	21.0	4.9	64	230	--	7.6	80	--
09...	0300	--	20.5	655	20.5	4.5	57	230	--	7.6	82	--
09...	0555	--	21.0	656	20.0	4.8	61	242	--	7.5	82	--
JUN, 1980												
03...	1835	--	14.5	649	11.5	9.3	100	118	79	--	--	--
05...	1050	a1990	13.0	#648	10.0	9.0	93	111	--	7.6	--	--
05...	1250	--	16.5	#649	10.0	9.2	95	116	--	7.6	--	23
05...	1420	--	--	#648	--	9.4	--	114	--	7.7	--	--
05...	1645	--	18.0	#648	11.0	9.5	101	119	--	7.7	--	15
05...	1835	--	12.5	#648	11.0	9.2	98	116	--	7.7	--	--
05...	2120	--	9.0	#648	11.5	8.8	95	110	--	7.7	--	23
05...	2310	--	8.0	#649	11.5	8.7	94	112	--	7.6	--	--
06...	0120	--	8.0	#649	11.5	8.8	95	109	--	7.6	--	20
06...	0245	--	7.5	#648	11.0	8.8	94	110	--	7.6	--	--
06...	0515	--	2.5	#650	10.0	9.0	93	116	--	7.5	--	16
06...	0855	--	8.5	#651	10.0	9.4	97	111	--	7.6	--	13
06...	1100	--	14.0	#654	10.0	9.6	99	105	--	7.6	--	--
06...	1300	--	17.0	#654	11.0	9.7	103	108	--	7.7	--	10
AUG, 1980												
11...	1800	--	33.0	649	23.0	8.4	114	233	149	8.3	--	9.0
13...	1000	a280	23.5	#651	20.5	7.4	96	258	--	7.8	--	--
13...	1200	--	29.0	#651	22.0	8.2	109	257	--	8.1	--	7.4
13...	1400	--	29.0	#650	23.0	8.6	124	260	--	8.2	--	--
13...	1600	--	29.5	#649	24.0	9.2	128	253	--	8.5	--	7.0
13...	1800	--	27.0	#649	23.0	8.5	115	242	--	8.5	--	--
13...	2000	--	--	#649	21.5	7.4	99	243	--	8.0	--	--
13...	2200	--	23.5	#649	20.5	6.2	80	242	--	7.7	--	--
13...	2400	--	21.5	#648	19.5	5.8	73	241	--	7.7	--	--
14...	0200	--	--	#649	19.5	5.5	70	240	--	7.4	--	--
14...	0400	--	--	#648	18.5	5.4	68	240	--	7.4	--	6.8
14...	0600	--	15.5	#648	18.5	5.7	71	240	--	7.4	--	--
14...	0800	--	18.0	#649	18.0	6.0	73	259	--	7.6	--	--
14...	0945	--	23.5	#649	19.0	7.0	88	268	--	7.8	--	--
14...	1200	--	27.5	#649	20.5	8.3	108	268	--	8.2	--	--

^a Average streamflow estimated for the synoptic sampling period.^e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 27 - TRUCKEE RIVER AT PATRICK--Continued

DATE	TIME	NITRO- GEN, NH ₄ + TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0545	.90	.48	.42	.41	.19	.22	1.3	.37	.43
06...	0715	.90	.49	.41	.44	.21	.23	1.3	.39	.47
06...	0948	1.0	.57	.43	.45	.19	.26	1.5	.43	.51
06...	1120	.90	.51	.39	.41	.18	.23	1.3	.42	.50
06...	1520	.59	.24	.35	.28	.12	.16	.87	.24	.31
06...	2055	.73	.30	.43	.48	.21	.27	1.2	.28	.35
07...	0600	.41	.13	.28	.94	.06	.88	1.4	.62	.58
07...	0945	.68	.03	.65	1.1	.02	1.1	1.8	.42	.50
07...	1350	.50	.04	.46	.40	.02	.38	.90	.18	.21
07...	1520	.74	.04	.70	.16	.06	.10	.90	.11	.12
07...	1745	.75	.23	.52	.29	.04	.25	1.0	.33	.38
07...	1920	.78	.27	.51	.34	.02	.32	1.1	.37	.43
JUN, 1980										
03...	1835	.55	.27	.28	.01	.02	.00	.56	.04	.10
05...	1250	.60	.22	.38	.56	.01	.55	1.2	.10	.12
05...	2120	.61	.28	.33	.73	.03	.70	1.3	.07	.14
06...	0515	.63	.26	.37	.10	.01	.09	.73	.10	.12
06...	1300	.87	.13	.74	.10	.01	.09	.97	.05	.17
AUG, 1980										
11...	1800	1.4	.34	1.1	.66	.14	.52	2.1	.33	.41
13...	1200	2.1	1.00	1.1	.87	.23	.64	3.0	1.00	1.40
13...	2400	1.4	—	—	1.1	—	—	2.5	.20	.34
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL SOLVED (MG/L AS P)
AUG, 1979										
08...	0830	1.4	.89	.51	1.0	.32	.68	2.4	.91	.97
08...	1015	1.4	.94	.46	1.1	.31	.79	2.5	1.1	1.10
08...	1300	1.3	.72	.58	1.1	.29	.81	2.4	1.3	1.30
08...	1500	.95	.52	.43	1.1	.28	.82	2.1	1.3	1.30
08...	1700	.70	.39	.31	1.0	.23	.77	1.7	.93	.96
08...	1900	.72	.33	.39	.93	.21	.72	1.7	.75	.80
08...	2100	.87	.40	.47	1.0	.24	.76	1.9	.57	.62
09...	0045	.92	.44	.48	1.1	.28	.82	2.0	.52	.57
09...	0300	1.0	.53	.47	1.1	.32	.78	2.1	.40	.45
09...	0555	1.2	.60	.60	1.1	.33	.77	2.3	.47	.47
JUN, 1980										
03...	1835	.45	.25	.20	.02	.04	.00	.47	.05	.12
05...	1250	—	.22	—	.13	.01	.12	—	.08	.09
05...	1645	.66	.28	.38	.13	.01	.13	.79	.07	.06
05...	2120	.52	—	—	.47	.02	.45	1.0	.10	.09
06...	0120	.86	.36	.50	.21	.01	.20	1.1	.13	.11
06...	0515	—	.29	—	—	.01	—	—	.12	.12
06...	0855	.53	.26	.27	.24	.01	.23	.77	.13	.11
06...	1300	.59	.15	.44	.11	.01	.10	.70	.07	—
AUG, 1980										
11...	1800	1.4	.27	1.1	.64	.13	.51	2.0	.32	.37
13...	1200	—	—	—	—	.25	—	—	.90	.95
13...	1600	1.0	.53	.47	.90	—	—	1.9	.75	.77
13...	2000	—	—	—	.36	.10	.26	—	.32	.36
13...	2400	1.2	.54	.66	1.1	.28	.82	2.3	—	.35
14...	0400	1.1	.56	.54	1.0	.31	.69	2.1	.36	.39
14...	0800	1.2	—	—	.94	.25	.69	2.1	.55	.60
14...	1200	.92	—	—	.91	.22	.69	1.8	.66	.70

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 27 - TRUCKEE RIVER AT PATRICK--Continued

CARBONACEOUS BOD												
DATE	TIME	CARBONACEOUS BOD						TOTAL BOD			NITROGENOUS BOD	
		LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0545	.81	2.4	4.0	4.2	.17	.07	--	--	11	4.2	6.6
06...	0948	--	2.4	4.2	4.4	.16	.07	--	--	7.8	3.5	3.4
06...	1355	1.4	1.9	3.9	4.3	.12	.05	--	--	8.6	1.0	4.3
06...	1520	.30	1.9	4.0	4.6	.11	.05	--	--	9.6	4.1	5.0
06...	2055	.88	1.8	4.0	4.6	.10	.04	--	--	7.2	.36	2.6
07...	0600	.81	1.9	3.5	3.7	.15	.06	--	--	7.6	1.9	3.9
07...	0945	.54	2.1	4.3	4.7	.12	.05	--	--	9.5	1.8	4.8
07...	1350	2.0	1.2	2.5	2.8	.12	.05	--	--	5.9	1.6	3.1
07...	1745	2.2	1.4	2.2	2.2	.19	.08	--	--	7.2	1.2	5.0
07...	1920	1.9	1.3	2.3	2.4	.15	.06	--	--	6.8	1.1	4.4
07...	2030	1.4	1.3	3.0	3.4	.10	.04	--	--	6.6	1.2	3.2
AUG, 1979												
08...	1300	.28	2.9	5.2	5.4	.15	.06	--	--	--	--	--
08...	2100	.10	2.7	5.4	6.0	.12	.05	--	--	--	--	--
09...	0045	--	3.0	5.8	6.2	.13	.06	--	--	--	--	--
09...	0300	--	2.3	4.2	4.4	.14	.06	--	--	--	--	--
09...	0555	.28	2.6	5.1	5.5	.13	.06	--	--	--	--	--
JUN, 1980												
03...	1835	--	1.3	3.0	3.6	.09	.04	--	--	--	--	--
05...	1250	--	.7	1.9	2.8	.06	.03	--	--	--	--	--
05...	1645	--	.9	2.0	2.4	.09	.04	--	--	--	--	--
05...	2120	--	.9	2.0	2.5	.09	.04	--	--	--	--	--
06...	0120	--	.9	2.1	2.5	.09	.04	--	--	--	--	--
06...	0515	--	1.0	2.2	2.7	.09	.04	--	--	--	--	--
06...	0855	--	1.8	3.0	3.1	.18	.08	--	--	--	--	--
06...	1300	--	.9	2.1	2.4	.10	.04	--	--	--	--	--
AUG, 1980												
11...	1800	.14	2.0	3.9	4.2	.13	.06	--	--	--	--	--
13...	1200	.48	3.2	6.0	6.5	.14	.06	--	--	--	--	--
13...	1600	--	2.7	5.5	6.0	.12	.05	--	--	--	--	--
13...	2000	.14	2.1	4.1	4.5	.12	.05	--	--	--	--	--
13...	2400	.09	2.5	4.7	5.0	.14	.06	--	--	--	--	--
14...	0400	.15	2.9	5.1	5.3	.16	.07	--	--	--	--	--
14...	0800	.12	3.2	5.7	6.0	.15	.06	--	--	--	--	--
14...	1200	.16	3.2	6.0	6.3	.14	.06	--	--	--	--	--
		CHLORO- PHYLL a, SUS- PENDEED (UG/L)	CHLORO- PHYLL b, SUS- PENDEED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
08...	0830	2.12	.209	4245	372	363	--	--				
08...	1015	.525	<.181	26670	379	365	--	--				
08...	1300	1.58	.199	6962	350	339	--	--				
08...	1500	.919	.181	17410	376	360	--	--				
08...	1700	.525	.054	24760	376	363	--	--				
08...	1900	1.23	.090	10570	364	351	--	--				
08...	2100	.800	.076	5000	402	398	--	--				
09...	0045	.800	.095	7500	377	371	--	--				
09...	0300	1.38	.190	7246	498	488	--	--				
09...	0555	.784	.024	16580	394	381	--	--				
JUN, 1980												
03...	1835	.277	<.095	21660	298	292	--	17				
06...	0120	--	--	--	--	--	512	--				
AUG, 1980												
11...	1800	1.97	.416	5076	643	633	--	--				
13...	1200	1.35	.266	4444	674	668	1806	39				
13...	1600	--	--	--	--	--	1609	--				
13...	2000	--	--	--	--	--	1313	--				
13...	2400	.641	<.339	12480	681	673	1098	56				
14...	0400	--	--	--	--	--	1421	--				
14...	0800	--	--	--	--	--	1411	--				
14...	1200	--	--	--	--	--	1916	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 33 - TRUCKEE RIVER BELOW TRACY

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LILITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0520	420	13.0	655	18.5	6.3	78	162	--	7.6	56	--
06...	0740	415	21.0	655	18.0	7.3	89	172	--	7.6	56	--
06...	0920	425	27.0	655	18.5	7.2	89	173	--	7.8	60	--
06...	1140	460	31.0	655	19.5	8.1	101	181	--	8.2	61	--
06...	1320	500	29.0	655	20.0	8.3	106	183	--	8.5	61	--
06...	1545	505	26.0	655	20.5	9.0	115	174	--	8.7	61	--
06...	1720	480	25.0	655	20.5	8.6	110	164	--	8.7	57	--
06...	1935	505	20.0	655	19.0	8.1	104	163	--	8.4	56	--
06...	2020	500	17.0	655	19.0	7.9	94	164	--	8.3	54	--
07...	0525	435	7.0	650	16.0	6.6	78	162	--	--	48	--
07...	0745	415	12.5	650	16.0	7.1	84	167	--	--	--	--
07...	0920	420	12.5	650	16.0	7.5	88	166	--	--	49	--
07...	1150	425	15.5	650	17.0	9.2	111	169	--	--	--	--
07...	1320	445	17.0	650	17.5	9.2	112	171	--	--	53	--
07...	1545	470	17.0	650	18.5	9.7	117	171	--	--	--	--
07...	1720	470	17.5	650	18.5	9.4	118	165	--	--	48	--
07...	2000	450	12.5	650	17.0	8.8	106	159	--	--	--	--
07...	2100	440	10.0	650	16.5	8.4	100	149	--	--	47	--
JUN, 1980												
05...	1000	#2070	11.5	650	10.0	9.1	94	118	--	7.0	--	--
05...	1215	#2080	17.0	650	11.0	9.1	97	117	--	7.1	--	14
05...	1430	#2060	--	650	11.0	9.5	101	119	--	7.2	--	--
05...	1620	#2040	18.5	650	12.0	9.3	101	121	--	7.2	--	--
05...	1810	#2020	16.0	650	11.5	9.1	98	123	--	7.2	--	--
05...	2015	#1980	11.0	650	11.0	9.0	96	121	--	7.3	--	14
05...	2230	#1970	9.0	650	11.0	8.8	94	121	--	7.3	--	--
06...	0015	#1970	8.5	650	11.0	8.8	94	124	--	7.2	--	13
06...	0225	#1990	6.5	650	10.5	8.7	91	125	--	7.1	--	--
06...	0415	#1980	4.0	650	10.0	9.0	93	122	--	7.3	--	15
06...	0630	#1980	4.0	650	9.5	9.1	93	122	--	7.3	--	--
06...	0810	#1980	7.0	655	10.0	9.1	94	121	--	7.2	--	--
06...	1015	#1960	15.0	655	11.0	9.2	97	117	--	7.2	--	--
06...	1210	#2040	21.0	655	12.0	9.9	106	118	--	7.2	--	12

Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 33 - TRUCKEE RIVER BELOW TRACY--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0920	.89	.50	.39	.58	.25	.33	1.5	.39	.49
06...	1140	.98	.54	.44	.56	.25	.31	1.5	.44	.52
06...	1545	.63	.22	.41	.36	.16	.20	.99	.27	.34
06...	1935	.57	.19	.38	.36	.16	.20	.93	.26	.32
06...	2020	.61	.20	.41	.39	.16	.23	1.0	.27	.38
07...	0525	.20	.05	.15	.94	.04	.90	1.1	.32	.40
07...	0920	.38	.12	.26	.93	.08	.85	1.3	.38	.35
07...	1320	1.1	.42	.68	.58	.14	.44	1.7	.44	.51
07...	1720	.65	.20	.45	.42	.08	.34	1.1	.29	.34
07...	2100	.97	.03	.94	.28	.02	.26	1.3	.15	.52
JUN, 1980										
05...	1215	.50	.10	.40	.19	.03	.16	.69	.10	.11
06...	1210	1.2	.17	1.0	.12	.01	.11	1.3	.09	.18
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1980										
05...	1215	--	--	--	.18	.01	.17	--	.04	.07
05...	1620	.76	.28	.48	.49	.02	.47	1.3	.10	.11
05...	2015	.79	.29	.50	.30	.02	.28	1.1	.11	.08
06...	0015	.91	.32	.59	.13	.02	.11	1.0	.14	.12
06...	0415	.58	.25	.33	.23	.02	.21	.81	.14	.12
06...	0810	.33	.28	.05	.17	.01	.16	.50	.10	.11
06...	1210	.69	.14	.55	--	.02	--	--	.11	.12

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 33 - TRUCKEE RIVER BELOW TRACY—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0520	--	1.7	3.7	4.3	.10	.04	--	--	9.4	2.1	5.1
06...	0920	--	1.4	3.6	4.7	.07	.03	--	--	8.3	2.8	3.6
06...	1320	--	2.0	3.9	4.2	.13	.06	--	--	7.7	4.6	3.5
06...	1545	--	1.0	2.4	3.2	.07	.03	--	--	7.0	.04	3.8
06...	2020	--	1.6	3.7	4.4	.09	.04	--	--	9.0	5.2	4.6
07...	0525	.95	2.0	3.5	3.7	.15	.06	--	--	6.7	3.1	3.0
07...	0920	1.4	1.8	3.3	3.6	.14	.06	--	--	--	--	--
07...	1320	2.1	1.6	3.3	3.7	.11	.05	--	--	11	1.0	7.3
07...	1720	1.4	1.4	3.2	3.7	.10	.04	--	--	13	1.1	9.3
07...	2000	.10	1.6	3.2	3.5	.12	.05	--	--	5.2	.04	1.7
07...	2100	1.7	1.8	3.3	3.5	.15	.06	--	--	6.1	1.6	2.6
JUN, 1980												
05...	1215	--	.9	2.1	2.4	.10	.04	--	--	--	--	--
05...	1620	--	1.5	2.7	3.0	.14	.06	--	--	--	--	--
05...	2015	--	1.0	2.0	2.2	.12	.05	--	--	--	--	--
06...	0015	--	1.5	3.8	5.0	.08	.03	--	--	--	--	--
06...	0415	--	1.5	3.3	3.9	.10	.04	--	--	--	--	--
06...	0810	.29	1.1	2.1	2.3	.13	.06	--	--	--	--	--
06...	1210	.13	1.3	2.3	2.4	.14	.06	--	--	--	--	--
DATE	TIME	CHLORO- PHYLL α , SUS- PENDEDED (UG/L)	CHLORO- PHYLL β , SUS- PENDEDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
JUN, 1980												
05...	1215	--	--	--	--	--	412	--				
06...	0015	--	--	--	--	--	665	--				
06...	0415	.147	<.133	88440	1194	1181	--	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 34 - TRUCKEE RIVER AT CLARK

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
AUG, 1979												
08...	0930	a260	27.0	e654	21.0	5.7	75	241	--	7.8	82	--
08...	1200	--	30.0	e655	23.0	8.6	111	252	--	8.2	82	--
08...	1425	--	28.0	e654	23.0	9.1	123	252	--	8.4	84	--
08...	1630	--	29.5	e654	24.0	8.4	121	261	--	8.4	84	--
08...	1820	--	28.0	e654	23.0	7.8	105	268	--	8.3	86	--
08...	2035	--	28.0	e656	23.0	5.8	77	253	160	7.9	82	--
08...	2320	--	24.5	e655	22.5	4.6	61	243	154	7.7	80	--
09...	0215	--	21.0	e655	21.0	4.2	55	--	--	7.6	80	--
09...	0445	--	21.0	e655	20.0	3.8	48	242	152	7.5	82	--
09...	0740	--	--	e656	20.0	4.6	59	248	144	7.6	83	--
AUG, 1980												
12...	0835	--	24.8	e652	19.5	9.4	119	242	155	8.2	--	9.3
13...	1100	a275	31.0	e651	21.0	8.2	108	265	--	8.0	--	--
13...	1300	--	30.5	e651	23.5	8.8	120	257	--	8.3	--	3.9
13...	1500	--	--	e649	24.0	9.9	138	248	--	8.5	--	--
13...	1630	--	28.5	e649	24.5	9.7	137	254	--	8.6	--	5.3
13...	1845	--	26.5	e649	23.5	8.6	118	259	--	8.6	--	--
13...	2030	--	22.0	e647	22.0	7.4	99	261	--	8.2	--	3.4
13...	2230	--	--	e649	21.5	6.6	87	258	--	8.1	--	--
14...	0030	--	20.0	e650	20.0	6.0	77	249	--	7.6	--	3.0
14...	0230	--	18.0	e650	19.0	5.6	70	244	--	7.6	--	--
14...	0430	--	16.0	e649	18.0	5.2	64	248	--	7.4	--	7.3
14...	0630	--	12.5	e650	17.5	5.6	68	239	--	7.3	--	--
14...	0830	--	20.0	e649	17.5	6.5	79	252	--	7.6	--	--
14...	1015	--	24.5	e649	19.0	7.6	95	243	--	7.8	--	--
14...	1230	--	29.5	e649	21.0	8.8	116	264	--	8.2	--	--

^a Average streamflow estimated for the synoptic sampling period.^e Estimated.

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 34 - TRUCKEE RIVER AT CLARK—Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG, 1980										
12...	0835	1.4	.48	.92	1.1	.26	.84	2.5	.43	.48
13...	1300	1.4	.47	.93	1.0	.26	.74	2.4	.61	.69
14...	0030	1.1	—	—	.99	.20	.79	2.1	—	.75
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
08...	0930	.47	.10	.37	1.2	.23	.97	1.7	.56	.55
08...	1200	.46	.16	.30	1.3	.23	1.1	1.8	.43	.67
08...	1425	.61	.26	.35	1.4	.29	1.1	2.0	.49	.60
08...	1630	.66	.31	.35	1.4	.31	1.1	2.1	.60	—
08...	1820	.67	.32	.35	1.4	.33	1.1	2.1	.74	.79
08...	2035	.97	.23	.74	1.5	.32	1.2	2.5	.85	.94
08...	2320	.74	.28	.46	1.7	.28	1.4	2.4	.98	1.10
09...	0445	.57	.10	.47	1.1	.16	.94	1.7	.75	.81
09...	0740	.60	.14	.46	1.1	.18	.92	1.7	.63	.68
AUG, 1980										
12...	0835	1.1	.51	.59	1.1	.27	.83	2.2	.42	.43
13...	1300	1.2	.43	.77	—	—	—	—	.61	.71
13...	1630	—	.36	—	1.3	—	.45	—	.85	.88
13...	2030	1.2	.30	.90	1.2	.30	.90	2.4	.81	.86
14...	0030	.84	.19	.65	1.0	.21	.79	1.8	.60	.61
14...	0430	1.0	.28	.72	1.2	.26	.94	2.2	.49	.50
14...	0830	1.1	.38	.72	1.3	.33	.97	2.4	.34	.36
14...	1230	1.3	.49	.81	1.4	.34	1.1	2.7	.36	.40

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 34 - TRUCKEE RIVER AT CLARK—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
AUG, 1979												
08...	0930	.68	2.0	3.8	4.0	.14	.06	--	--	--	--	--
08...	1200	.22	2.3	3.8	3.9	.17	.07	--	--	--	--	--
08...	2035	--	4.0	6.8	7.1	.17	.07	--	--	--	--	--
08...	2320	--	3.5	5.8	6.0	.17	.07	--	--	--	--	--
09...	0445	--	2.4	4.5	4.8	.14	.06	--	--	--	--	--
09...	0740	--	3.3	5.8	6.0	.16	.07	--	--	--	--	--
AUG, 1980												
12...	0835	.04	2.2	5.0	5.9	.10	.04	--	--	--	--	--
13...	1300	--	2.4	4.8	5.2	.12	.05	--	--	--	--	--
13...	1630	--	2.0	4.2	4.7	.12	.05	--	--	--	--	--
13...	2030	--	2.9	5.8	6.3	.12	.05	--	--	--	--	--
14...	0030	.04	2.3	4.3	4.6	.14	.06	--	--	--	--	--
14...	0430	.22	2.4	4.2	4.4	.16	.07	--	--	--	--	--
14...	0830	.32	2.7	4.8	5.1	.16	.07	--	--	--	--	--
14...	1230	.19	2.8	5.2	5.6	.14	.06	--	--	--	--	--
		CHLORO- PHYLL a, SUS- PENDED (UG/L)	CHLORO- PHYLL b, SUS- PENDED (UG/L)	BIOMASS / CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
08...	0930	4.07	.838	1966	366	358	--	--				
08...	1200	.210	.018	66670	366	352	--	--				
08...	1425	.473	.018	31710	366	351	--	--				
08...	1630	.263	<.181	45630	373	361	--	53				
08...	1820	1.97	.269	6091	387	375	--	--				
08...	2035	.960	.228	11460	398	387	--	--				
08...	2320	1.34	.314	11190	400	385	--	--				
09...	0215	1.40	.285	8571	397	385	--	--				
09...	0445	1.84	.437	4348	407	399	--	43				
09...	0740	1.80	.380	5000	406	397	--	--				
AUG, 1980												
12...	0835	.794	.181	12590	663	653	--	--				
13...	1300	1.27	.420	5512	667	660	1900	39				
13...	1630	--	--	--	--	--	1671	--				
13...	2030	--	--	--	--	--	1678	--				
14...	0030	<.238	--	--	671	664	1799	25				
14...	0430	--	--	--	--	--	1813	--				
14...	0830	--	--	--	--	--	2233	--				
14...	1230	--	--	--	--	--	2640	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 36 - TRUCKEE RIVER AT DERBY DAM

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0645	a460	16.5	655	18.0	--	--	161	--	--	--	--
06...	0920	--	20.0	655	19.0	6.8	83	160	--	7.7	56	--
06...	1115	--	27.5	655	20.0	7.2	92	170	--	7.7	57	--
06...	1330	--	27.5	655	22.5	8.3	109	170	--	8.4	--	--
06...	1505	--	28.5	655	22.5	8.9	117	178	--	8.4	59	--
06...	1715	--	26.5	655	22.0	8.6	113	186	--	8.5	60	--
06...	1915	--	22.5	655	21.0	8.4	109	178	--	8.5	65	--
06...	2015	--	20.5	655	20.0	8.0	103	178	--	8.4	61	--
07...	0550	--	8.5	650	17.0	6.8	81	159	--	--	49	--
07...	0715	--	8.5	650	16.5	6.8	80	163	--	--	--	--
07...	0915	--	12.0	650	16.5	7.3	86	163	--	--	48	--
07...	1110	--	15.5	650	17.5	8.0	96	162	--	--	--	--
07...	1315	--	25.0	650	19.5	9.0	113	162	--	--	55	--
07...	1515	--	22.0	650	20.0	9.4	119	169	--	--	--	--
07...	1715	--	21.5	650	20.5	9.6	123	184	--	--	51	--
07...	1915	--	19.0	650	19.5	9.3	121	168	--	--	--	--
07...	2015	--	15.0	650	19.0	8.6	106	168	--	--	48	--
AUG, 1979												
08...	2235	--	23.0	e657	22.5	6.0	79	248	--	8.1	84	--
09...	0150	a260	21.5	e658	22.0	5.2	69	244	--	7.8	--	--
09...	0420	--	18.0	e658	21.0	4.5	59	242	--	7.7	84	--
09...	0635	--	18.0	e658	21.0	4.4	58	240	--	7.7	--	--
09...	1125	--	--	e657	22.0	7.4	99	--	--	7.9	--	--
09...	1225	--	31.0	e657	22.5	8.1	108	230	--	8.2	84	--
09...	1355	--	32.0	e656	23.5	9.2	128	230	--	8.5	--	--
09...	1615	--	31.5	e656	25.0	10.2	144	226	--	8.8	82	--
09...	1800	--	30.0	e655	24.5	9.1	126	223	--	8.8	--	--
09...	2000	--	24.5	e650	24.0	7.8	108	235	--	8.3	--	--
09...	2200	--	20.5	e655	24.5	6.4	89	237	--	8.2	--	--
09...	2400	--	20.5	e656	23.0	5.3	72	239	--	8.0	--	--
10...	0200	--	22.0	e656	23.0	4.6	62	239	--	7.8	--	--
10...	0400	--	21.0	e656	22.0	4.4	59	240	169	7.7	--	--
10...	0600	--	20.0	e657	22.0	4.4	59	242	--	7.8	--	--
10...	0800	--	--	e657	22.0	4.4	59	238	--	7.8	--	--
JUN, 1980												
03...	1745	--	15.5	651	12.0	9.6	104	119	81	--	--	--
05...	1100	a2040	15.5	650	10.5	9.2	96	119	--	7.1	--	--
05...	1325	--	15.5	650	11.0	9.4	100	120	--	6.8	--	--
05...	1515	--	17.5	650	11.0	--	--	116	--	7.1	--	--
05...	1700	--	15.5	650	11.5	9.2	99	120	--	7.0	--	15
05...	1900	--	14.5	650	11.5	8.9	96	123	--	7.2	--	--
05...	2115	--	11.0	650	10.5	8.8	92	122	--	7.4	--	20
05...	2315	--	11.0	650	10.5	--	--	122	--	7.3	--	--
06...	0110	--	8.5	650	10.0	8.7	90	125	--	7.4	--	--
06...	0310	--	5.0	650	10.0	8.7	90	126	--	7.3	--	--
06...	0515	--	3.5	655	10.0	8.6	89	125	--	7.3	--	20
06...	0715	--	6.0	655	10.0	8.8	90	122	--	7.2	--	--
06...	0900	--	11.0	655	11.0	8.9	94	117	--	7.2	--	22
06...	1100	--	15.5	655	11.5	9.2	98	118	--	7.2	--	--
06...	1300	--	20.5	655	13.0	9.4	103	115	--	7.3	--	20
AUG, 1980												
12...	0920	--	25.5	652	19.5	7.6	96	241	157	8.6	--	--
13...	1000	a270	24.5	e650	19.5	6.4	81	259	--	--	--	--
13...	1300	--	33.0	e650	22.0	7.1	95	256	--	8.3	--	--
13...	1400	--	32.5	e650	23.0	8.5	115	257	--	8.4	--	--
13...	1730	--	31.0	e650	23.0	9.0	122	257	--	8.8	--	--
13...	2130	--	24.0	e650	22.0	7.2	96	263	--	8.8	--	--
13...	2215	--	24.0	e650	22.0	6.6	88	264	--	8.6	--	--
14...	0100	--	22.0	e650	21.0	5.6	74	265	--	8.5	--	--
14...	0200	--	21.0	e650	20.5	5.6	73	272	--	8.5	--	--
14...	0415	--	19.0	e650	19.0	5.5	69	262	--	8.4	--	--
14...	0600	--	17.5	e650	19.0	5.5	69	259	--	8.4	--	--
14...	0930	--	23.5	e650	18.5	5.7	70	257	--	--	--	--
14...	1100	--	25.0	e650	19.0	7.1	89	256	--	8.4	--	--
14...	1145	--	26.0	e650	19.0	7.4	92	259	--	8.4	--	--

a Average streamflow estimated for the synoptic sampling period.
e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 36 - TRUCKEE RIVER AT DERBY DAM--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0645	.64	.19	.45	.54	.16	.38	1.2	.25	.37
06...	0920	.71	.23	.48	.59	.25	.34	1.3	.28	.37
06...	1115	.82	.29	.53	.63	.26	.37	1.5	.31	.39
06...	1330	.74	.33	.41	.63	.26	.37	1.4	.35	.43
06...	1505	.77	.34	.43	.65	.27	.38	1.4	.39	.49
06...	1715	.85	.33	.52	.64	.27	.37	1.5	.41	.51
06...	1915	.81	.29	.52	.61	.25	.36	1.4	.41	.49
06...	2015	.72	.26	.46	.59	.25	.34	1.3	.40	.50
07...	0550	.57	.00	.57	.75	.02	.73	1.3	.25	.29
07...	0915	.98	.01	.97	.82	.02	.80	1.8	.28	.33
07...	1315	.94	.17	.77	.72	.10	.62	1.7	.35	.40
07...	1715	1.1	.18	.92	.70	.18	.52	1.8	.41	.46
07...	2015	.43	.06	.37	.84	.02	.82	1.3	.17	.21
JUN, 1980										
03...	1745	1.6	.21	1.4	.17	.01	.16	1.8	.08	.12
05...	2115	.82	.19	.63	.17	.02	.15	.99	.08	—
06...	0515	1.5	—	—	.18	.03	.15	1.7	.14	.15
AUG, 1980										
13...	1300	1.8	.27	1.5	1.6	—	—	3.4	.41	.52
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
08...	2235	.55	.23	.32	1.4	.27	1.1	2.0	.70	.77
09...	0150	.68	.28	.40	1.4	.26	1.1	2.1	.86	.94
09...	0420	.55	.21	.34	1.4	.21	1.2	2.0	.89	.98
09...	1225	.63	.06	.57	1.1	.14	.96	1.7	.69	.70
09...	1615	.50	.01	.49	1.1	.15	.95	1.6	.52	.61
09...	2000	.55	.04	.51	1.2	.17	1.0	1.8	.47	.53
09...	2400	.71	.10	.61	1.3	.18	1.1	2.0	.48	.56
10...	0400	.47	.04	.43	1.3	.17	1.1	1.8	.53	.62
10...	0800	.42	.04	.38	1.2	.14	1.1	1.6	.53	.64
JUN, 1980										
03...	1745	—	—	—	—	.01	—	—	.09	.10
05...	1325	.62	—	—	.27	.01	.26	.89	.05	.10
05...	1700	—	.34	—	.13	.01	.12	—	.08	.07
05...	2115	.53	.22	.31	.19	.01	.18	.72	.08	.07
06...	0110	.57	.25	.32	.24	.02	.22	.81	.13	.11
06...	0515	.83	.23	.60	—	.03	—	—	.08	.11
06...	1300	.73	.26	.47	.61	.01	.60	1.3	.12	.11
AUG, 1980										
12...	0920	.74	.28	.46	1.0	.19	.81	1.7	.35	.37
13...	1300	.72	.12	.60	1.3	.27	1.0	2.0	.36	.44
13...	1730	1.0	.26	.74	1.4	.31	1.1	2.4	.56	.62
13...	2130	1.2	.34	.86	1.6	.39	1.2	2.8	.83	.88
14...	0100	1.1	.29	.81	1.5	.34	1.2	2.6	.90	.94
14...	0415	1.0	.20	.80	1.3	.26	1.0	2.3	.73	.77
14...	0930	1.6	.28	1.3	1.2	.24	.96	2.8	.43	.49
14...	1145	1.4	.24	1.2	1.3	.28	1.0	2.7	.40	.43

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 36 - TRUCKEE RIVER AT DERBY DAM--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0645	--	1.3	3.0	3.6	.09	.04	--	--	5.4	3.2	1.8
06...	0920	--	1.7	3.4	3.7	.12	.05	--	--	6.5	4.2	2.8
06...	1330	--	1.3	3.0	3.6	.09	.04	--	--	6.6	4.5	3.0
06...	1715	1.1	1.8	4.2	5.2	.08	.03	--	--	8.5	4.3	3.3
06...	2015	--	1.6	3.8	4.9	.08	.03	--	--	7.4	4.1	2.5
07...	0550	1.0	1.7	3.2	3.4	.14	.06	--	--	7.1	.90	3.7
07...	0915	1.3	1.8	3.1	3.2	.17	.07	--	--	4.6	3.9	1.4
07...	1315	1.9	1.7	3.0	3.1	.15	.06	--	--	6.6	1.5	3.5
07...	1715	1.6	1.8	3.4	3.7	.13	.06	--	--	7.5	3.7	3.8
07...	2015	1.9	1.6	3.0	3.2	.13	.06	--	--	9.4	1.4	6.2
AUG, 1979												
08...	2235	--	1.4	3.3	4.0	.09	.04	--	--	--	--	--
09...	0150	.11	2.0	3.8	4.0	.13	.06	--	--	--	--	--
09...	1225	.08	1.5	4.0	5.4	.07	.03	--	--	--	--	--
09...	1615	--	2.3	3.7	3.8	.18	.08	--	--	11	1.9	7.2
09...	2400	.27	1.6	3.5	3.9	.11	.05	--	--	4.5	.72	.6
10...	0400	.03	1.7	3.9	4.6	.09	.04	--	--	--	--	--
10...	0800	--	1.8	4.1	4.8	.09	.04	--	--	7.0	--	2.2
JUN, 1980												
03...	1745	--	1.8	3.1	3.2	.16	.07	--	--	3.2	--	--
05...	1325	--	1.1	2.2	2.4	.12	.05	--	--	4.8	--	2.4
05...	1700	.09	1.1	2.3	2.7	.10	.04	--	--	3.4	--	.7
05...	2115	.14	1.2	2.2	2.4	.13	.06	--	--	3.4	--	1.0
06...	0110	--	1.4	3.1	3.6	.09	.04	--	--	4.0	--	.4
06...	0515	.47	1.2	2.7	3.1	.09	.04	--	--	4.8	--	1.7
06...	0900	--	1.2	2.4	2.6	.12	.05	--	--	4.1	--	1.5
06...	1300	--	.9	2.1	2.5	.09	.04	--	--	3.2	--	.7
AUG, 1980												
12...	0920	--	1.8	3.9	4.4	.10	.04	--	--	6.6	2.9	2.2
13...	1300	.12	2.0	4.1	4.6	.11	.05	--	--	6.8	2.2	2.2
13...	1730	--	2.2	4.5	4.9	.12	.05	--	--	9.3	1.8	4.4
13...	2130	.16	3.2	6.2	6.7	.13	.06	--	--	8.7	2.2	2.0
14...	0100	.25	3.2	5.6	5.9	.15	.06	--	--	8.9	1.8	3.0
14...	0415	.31	3.6	5.9	6.0	.18	.08	--	--	9.1	2.0	3.1
14...	0930	.08	2.7	4.6	4.7	.17	.07	--	--	7.0	2.1	2.3
14...	1145	.19	2.7	5.0	5.3	.14	.06	--	--	6.8	1.5	1.5

DATE	TIME	CHLORO- PHYLL α , SUS - PENDEDED (UG/L)	CHLORO- PHYLL β , SUS - PENDEDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
AUG, 1979								
08...	2235	.652	.047	10740	364	357	1010	--
09...	0420	.672	<.241	17860	355	343	712	57
09...	1225	1.32	.181	7576	360	350	--	--
09...	1615	2.06	.269	4369	425	416	1144	--
09...	2000	1.66	.226	--	--	--	1175	--
09...	2400	1.29	.247	7752	433	423	--	--
10...	0400	1.15	.178	7826	419	410	--	40
10...	0800	2.06	.297	4854	417	407	1126	--
JUN, 1980								
03...	1745	1.00	.147	4000	258	254	--	--
05...	1325	.108	<.076	55560	309	303	478	10
06...	0110	1.50	.171	2667	359	355	526	11
AUG, 1980								
12...	0920	1.24	.283	8871	668	657	--	--
13...	1300	.997	.173	8024	662	654	3332	43
13...	1730	--	--	--	--	--	2114	--
13...	2130	--	--	--	--	--	2219	--
14...	0100	.677	<.358	13290	679	670	2173	43
14...	0415	--	--	--	--	--	2565	--
14...	0930	--	--	--	--	--	3261	--
14...	1145	--	--	--	--	--	2763	--

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 37 - TRUCKEE RIVER BELOW DERBY DAM

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, OF WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0800	70	20.0	660	18.5	--	--	152	--	--	--	--
06...	1000	65	24.0	660	19.5	8.3	104	166	--	7.9	56	--
06...	1145	65	27.5	660	21.0	8.6	110	159	--	--	--	--
06...	1410	75	26.0	660	22.0	8.2	108	175	--	--	--	--
06...	1540	90	28.0	660	22.5	8.2	108	178	--	--	--	--
06...	1750	105	27.0	660	22.0	7.8	103	182	--	--	--	--
06...	1950	110	20.5	660	20.5	7.4	95	177	--	--	53	--
06...	2035	105	18.5	660	20.0	7.1	90	175	--	--	--	--
07...	0620	90	8.5	660	15.0	7.6	86	170	--	--	49	--
07...	0745	85	12.0	660	15.5	8.1	93	167	--	--	--	--
07...	0945	75	14.0	660	17.0	8.2	98	164	--	--	49	--
07...	1135	70	16.0	660	18.0	--	--	162	--	--	--	--
07...	1345	65	22.5	660	19.5	8.2	103	167	--	--	51	--
07...	1545	65	20.5	660	19.5	9.0	113	171	--	--	--	--
07...	1745	80	21.0	660	19.5	8.5	106	169	--	--	--	--
07...	1945	90	16.0	660	18.5	8.0	98	168	--	--	--	--
07...	2045	95	14.0	660	18.0	7.6	93	171	--	--	53	--
AUG, 1979												
08...	2055	39	23.0	#655	23.0	6.3	85	239	154	8.3	--	--
08...	2355	39	18.5	#656	23.5	5.8	80	244	156	7.8	--	--
09...	0305	40	16.0	#657	21.5	5.6	75	246	--	7.7	--	--
09...	0535	40	15.0	#658	21.5	5.5	73	242	158	7.8	--	--
09...	0740	40	20.0	#658	21.0	6.4	84	244	161	7.8	--	--
09...	1200	40	30.0	#657	22.0	7.2	96	234	--	8.0	--	--
09...	1300	40	31.5	#657	22.5	7.4	99	225	--	8.2	84	--
09...	1415	40	32.0	#657	24.0	8.1	112	234	--	8.4	--	--
09...	1650	40	31.5	#656	24.5	8.2	114	232	--	8.7	83	--
09...	1830	40	30.0	#656	25.0	7.9	111	237	--	8.7	--	--
09...	2030	40	24.0	#656	24.5	7.0	97	237	156	8.6	--	--
09...	2230	40	20.0	#655	24.0	6.6	92	237	--	8.4	--	--
10...	0030	40	19.5	#656	24.0	6.2	86	239	157	8.0	--	--
10...	0230	39	22.5	#656	24.0	5.8	80	239	--	7.8	--	--
10...	0430	39	21.0	#657	23.0	5.8	78	240	182	7.8	--	--
10...	0630	39	20.0	#656	23.0	5.8	78	239	--	7.8	--	--
10...	0830	39	25.0	#657	22.5	6.0	80	238	--	7.8	--	--
JUN, 1980												
05...	1130	#1960	15.5	650	11.0	9.4	100	--	--	--	--	--
05...	1345	#1960	15.5	650	11.0	9.4	100	--	--	--	--	--
05...	1530	#1960	17.5	650	12.0	9.4	102	121	--	7.2	--	--
05...	1720	#1960	15.5	650	11.5	9.2	99	123	--	7.1	--	--
05...	1910	#1940	14.5	650	11.5	9.0	97	124	--	7.2	--	--
05...	2135	#1920	11.0	650	10.0	9.0	93	125	--	7.2	--	--
05...	2330	#1900	14.5	650	10.0	--	--	126	--	7.1	--	--
06...	0130	#1890	8.5	650	10.0	9.0	93	125	--	7.4	--	--
06...	0320	#1880	5.0	650	10.0	9.0	93	131	--	7.2	--	--
06...	0540	#1880	3.5	655	9.5	9.1	94	129	--	7.2	--	--
06...	0715	#1880	6.0	655	10.0	9.0	93	128	--	7.1	--	--
06...	0915	#1880	11.0	655	11.0	9.1	96	126	--	7.2	--	--
06...	1105	#1880	15.5	655	11.5	9.5	101	118	--	7.2	--	--
06...	1300	#1870	20.5	655	13.0	9.7	107	117	--	7.2	--	--

Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 37 - TRUCKEE RIVER BELOW DERBY DAM--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0800	—	.10	—	.60	.04	.56	—	.27	.30
06...	1000	.67	.19	.48	.60	.25	.35	1.3	.28	.36
06...	1145	.63	.23	.40	.63	.19	.44	1.3	.30	.35
06...	1540	.69	.23	.46	.73	.18	.55	1.4	.37	.45
06...	1950	.66	.12	.54	.75	.12	.63	1.4	.40	.47
07...	0620	.61	.01	.60	.69	.02	.67	1.3	.24	.29
07...	0945	.75	.03	.72	.74	.02	.72	1.5	.26	.32
07...	1345	.97	.23	.74	.60	.16	.44	1.6	.33	.37
07...	1745	.75	.23	.52	.63	.18	.45	1.4	.39	.44
07...	2045	.77	.19	.58	.62	.12	.50	1.4	.41	.47
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
08...	2055	.79	—	—	1.3	—	—	2.1	—	.51
08...	2355	.66	.19	.47	1.4	.23	1.2	2.1	.64	.70
09...	0535	.56	.23	.33	1.4	.21	1.2	2.0	.90	.94
09...	0740	.55	.14	.41	1.3	.18	1.1	1.9	.97	.99
09...	1300	.56	.06	.50	1.1	.13	.97	1.7	.73	1.00
09...	1650	.42	.06	.36	1.2	.14	1.1	1.6	.58	.64
09...	2030	.47	.07	.40	1.2	.16	1.0	1.7	.46	.51
10...	0030	.55	.12	.43	1.3	.17	1.1	1.9	.46	.51
10...	0430	.40	.12	.28	1.3	.18	1.1	1.7	.54	.61
10...	0830	.42	.07	.35	1.2	.15	1.1	1.6	.56	.66

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 37 - TRUCKEE RIVER BELOW DERBY DAM--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20C	DECAY RATE, BASE 10, PER DAY AT 20C	TOTAL BOD			NITROGENOUS BOD	
								5 DAY (MG/L)	20 DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0800	--	1.4	3.2	3.7	.10	.04	--	--	5.3	--	1.6
06...	1000	--	1.2	2.6	2.9	.10	.04	--	--	8.1	--	5.2
06...	1410	--	1.4	2.7	2.9	.13	.06	--	--	5.7	4.2	2.8
06...	1750	1.5	1.5	3.2	3.7	.10	.04	--	--	9.7	1.0	6.0
06...	2035	.95	2.2	4.5	5.0	.12	.05	--	--	8.7	4.0	3.7
07...	0620	1.8	1.5	3.2	3.6	.10	.04	--	--	5.0	1.5	1.4
07...	0945	1.2	1.9	3.3	3.4	.16	.07	--	--	5.1	1.5	1.7
07...	1345	1.3	1.5	3.0	3.4	.12	.05	--	--	8.3	1.1	4.9
07...	1745	2.4	1.3	2.6	2.9	.12	.05	--	--	9.7	.40	6.8
07...	2045	1.8	2.0	3.3	3.4	.18	.08	--	--	6.7	1.6	3.3
AUG, 1979												
08...	2055	--	1.2	2.6	3.0	.11	.05	--	--	--	--	--
08...	2355	--	1.9	3.7	4.0	.13	.06	--	--	--	--	--
09...	0535	--	1.5	3.5	4.4	.08	.03	--	--	--	--	--
09...	0740	--	1.8	3.9	4.5	.10	.04	--	--	--	--	--
09...	2030	.72	1.7	3.6	4.0	.11	.05	--	--	--	--	--
10...	0030	--	1.5	2.8	2.9	.14	.06	--	--	--	--	--
10...	0430	.10	1.8	3.5	3.8	.13	.06	--	--	--	--	--
10...	0830	.18	1.6	3.3	3.7	.12	.05	--	--	--	--	--
DATE	TIME	CHLORO- PHYLL a, SUS- PENDE	CHLORO- PHYLL b, SUS- PENDE	BIOMASS/ CHLORO- PHYLL RATIO	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
								(UG/L)	(UG/L)			
AUG, 1979												
08...	2055	.483	<.238	14490	362	355	--	--				
08...	2355	1.31	.234		--	--	--	--				
09...	0535	1.00	.285	9000	361	352	--	--				
09...	0740	.656	.054	22870	372	357	--	--				
09...	1300	.263	.018	38020	366	356	--	--				
09...	1650	2.03	.329	4434	425	416	--	44				
09...	2030	1.51	.206	6623	427	417	--	--				
10...	0030	1.47	.190	6803	432	422	--	--				
10...	0430	.509	.118	27500	419	405	--	48				
10...	0830	.933	.295	10720	428	418	--	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1980												
05...	1055	a1940	17.5	#652	10.5	--	--	127	--	7.5	--	--
05...	1245	--	14.0	#652	11.0	9.5	101	127	--	7.4	--	15
05...	1445	--	17.5	#652	12.5	--	--	122	--	7.7	--	--
05...	1655	--	20.5	#652	12.5	--	--	127	--	7.6	--	21
05...	1850	--	20.0	#652	12.0	9.4	102	128	--	7.8	--	--
05...	2050	--	13.0	#652	11.5	--	--	125	--	7.5	--	--
05...	2240	--	11.0	#652	10.5	9.3	97	129	--	8.0	--	--
06...	0045	--	9.0	#652	10.0	--	--	128	--	7.8	--	23
06...	0240	--	6.0	#652	10.0	9.1	94	130	--	7.7	--	--
06...	0500	--	7.5	#657	10.5	8.9	93	129	--	7.6	--	36
06...	0640	--	7.5	#657	11.0	9.2	96	125	--	7.4	--	--
06...	0900	--	14.5	#657	11.0	--	--	127	--	7.6	--	39
06...	1035	--	16.0	#657	11.5	9.3	98	134	--	7.3	--	--
06...	1235	--	21.0	#657	12.5	9.2	99	131	--	7.4	--	30
AUG, 1980												
12...	0940	--	28.0	654	20.0	9.4	120	246	156	8.4	--	6.0
13...	1115	a70	30.0	#650	21.5	9.2	123	264	--	8.5	--	--
13...	1200	--	32.0	#650	22.5	9.6	128	266	--	8.7	--	5.6
13...	1445	--	35.0	#650	24.5	9.9	138	259	--	9.0	--	--
13...	1600	--	34.0	#650	25.0	9.8	138	252	--	9.1	--	7.0
13...	1830	--	31.0	#650	24.0	8.3	115	257	--	9.0	--	--
13...	2000	--	25.0	653	23.0	7.3	99	258	--	9.0	--	6.6
13...	2245	--	22.0	653	20.0	6.6	85	264	--	8.6	--	--
13...	2400	--	21.0	#650	20.0	6.3	81	264	--	8.4	--	--
14...	0845	--	22.0	#650	18.0	7.7	95	270	--	8.2	--	--
14...	1030	--	27.0	#650	19.0	8.6	108	269	--	8.4	--	--
14...	1230	--	30.0	#650	21.0	9.7	128	268	--	8.6	--	--

^a Average streamflow estimated for the synoptic sampling period.

Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG, 1980										
12...	0940	1.1	.06	1.0	.97	.13	.84	2.1	.44	.49
13...	1200	2.1	.12	2.0	1.1	.12	.98	3.2	.50	.54
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1980										
05...	1245	.64	.22	.42	.23	.02	.21	.87	.12	.11
05...	1655	—	.23	—	.19	.01	.18	—	.11	.09
05...	2050	.50	.18	.32	.50	.02	.48	1.0	.12	.10
06...	0045	.37	.13	.24	.47	.03	.44	.84	.11	.10
06...	0500	.53	.23	.30	.39	.02	.37	.92	.14	.11
06...	0900	.54	.20	.34	.20	.02	.18	.74	.13	.10
06...	1235	—	.20	—	.29	.02	.27	—	.13	.13
AUG, 1980										
12...	0940	1.0	.06	.94	.98	.14	.84	2.0	.43	.44
13...	1200	.82	.04	.78	1.1	—	—	1.9	.45	.54
13...	1600	1.1	.10	1.0	.76	.08	.68	1.9	.45	.47
13...	2000	1.1	.05	1.1	.75	.11	.64	1.9	.31	.41
13...	2400	1.4	.06	1.3	1.1	.14	.96	2.5	.41	.48
14...	0845	1.7	.10	1.6	1.4	.24	1.2	3.1	.65	.68
14...	1230	1.5	.09	1.4	1.3	.19	1.1	2.8	.70	.73

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE--Continued

CARBONACEOUS BOD												
DATE	TIME	CARBONACEOUS BOD						TOTAL BOD			NITROGENOUS BOD	
		LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20C	DECAY RATE, BASE 10, PER DAY AT 20C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1980												
05...	1245	---	1.2	2.6	3.0	.10	.04	---	---	4.2	.08	1.2
05...	1655	---	1.3	2.3	2.4	.15	.06	---	---	3.1	.20	.7
05...	2050	.16	1.3	2.8	3.2	.10	.04	---	---	---	---	---
06...	0045	---	1.3	2.5	2.7	.13	.06	---	---	4.2	.55	1.5
06...	0500	---	1.4	2.5	2.7	.15	.06	---	---	4.3	---	1.6
06...	0900	---	.8	1.8	2.1	.09	.04	---	---	3.1	.19	1.0
06...	1235	---	1.0	2.3	2.8	.08	.03	---	---	3.5	---	.7
AUG, 1980												
12...	0940	---	1.8	3.7	4.0	.12	.05	---	---	6.9	---	2.9
13...	1200	---	2.8	5.1	5.4	.14	.06	---	---	6.7	.16	1.3
13...	1600	---	2.4	4.5	4.8	.14	.06	---	---	5.9	---	1.1
13...	2000	---	2.5	4.6	4.9	.14	.06	---	---	6.0	.06	1.1
13...	2400	---	2.3	4.0	4.1	.17	.07	---	---	7.7	.24	3.6
14...	0845	.31	2.3	4.3	4.5	.14	.06	---	---	8.8	.29	4.3
14...	1230	.18	2.5	4.7	5.1	.14	.06	---	---	---	---	---
		DATE	TIME	CHLORO- PHYLL α , SUS- PENDE	CHLORO- PHYLL β , SUS- PENDE	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALCAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
JUN, 1980												
05...	1245			.995	.179	5025	320	315	382	17		
05...	2050			1.50	.171	4000	361	355	---	---		
06...	0045			.578	.087	8651	283	278	516	20		
AUG, 1980												
12...	0940			2.95	.611	2712	658	650	---	---		
13...	1200			1.41	.460	6383	674	665	3001	29		
13...	2000			---	---	---	---	---	2815	---		
13...	2400			.641	.339	14040	679	670	1745	37		
14...	0845			---	---	---	---	---	3191	---		
14...	1230			---	---	---	---	---	2783	---		

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 43 - HERMAN DITCH RETURN AT WADSWORTH

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	ALKA- LINIT (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
AUG, 1980												
12...	1045	—	29.5	656	21.0	7.7	95	287	190	8.5	—	4.4
13...	1015	—	30.0	650	20.5	7.2	94	288	—	7.2	—	—
13...	1230	—	31.5	650	—	8.7	—	302	—	8.0	—	3.7
13...	1430	2.3	34.5	650	—	7.3	—	—	—	8.1	—	—
13...	1630	—	35.0	650	—	6.7	—	308	—	7.6	—	4.6
13...	1830	—	32.5	650	27.5	—	—	320	—	7.7	—	—
13...	2015	—	28.0	650	22.0	5.4	72	—	—	7.0	—	3.8
13...	2215	—	25.0	655	22.0	5.0	66	284	—	7.0	—	—
14...	0015	—	23.0	650	18.5	—	—	278	—	—	—	—
14...	0215	—	21.0	650	17.5	4.4	54	310	—	6.8	—	—
14...	0445	—	19.5	650	16.0	—	—	316	—	6.9	—	—
14...	0615	—	18.0	650	16.0	5.8	68	304	—	3.8	—	—
14...	0830	—	—	650	16.0	6.3	74	312	—	6.9	—	8.6
14...	1030	—	26.0	655	19.5	7.1	90	293	—	7.1	—	—
14...	1245	—	29.5	650	20.5	—	—	318	—	7.1	—	—

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG, 1980									
12...	1045	1.3	.02	1.3	.62	.09	.53	1.9	.53
13...	1230	1.9	.11	1.8	.20	.04	.16	2.1	.42
14...	0015	1.2	.11	1.1	.83	.08	.75	2.0	.53

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ ORGANIC SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, SOLVED (MG/L AS P)	PHOS- PHORUS, SOLVED (MG/L AS P)
AUG, 1980									
12...	1045	1.1	.04	1.1	.59	.08	.51	1.7	.50
13...	1230	—	.09	—	.20	.06	.14	—	.37
13...	1630	.97	.10	.87	.56	.12	.44	1.5	.35
13...	2015	.76	.12	.64	.29	.07	.22	1.1	.36
14...	0015	.77	.03	.74	.67	.10	.57	1.4	.30
14...	0445	1.2	.10	1.1	—	.16	—	—	.61
14...	0830	1.8	.07	1.7	.79	.11	.68	2.6	.52
14...	1245	1.2	.06	1.1	.51	.11	.40	1.7	.58

* Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 43 - HERMAN DITCH RETURN AT WADSWORTH--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY	DECAY	TOTAL BOD			NITROGENOUS BOD	
						RATE, BASE E, PER DAY AT 20°C	RATE, BASE 10, PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
AUG, 1980												
12...	1045	--	6.9	12	12	.17	.07	--	--	--	--	--
13...	1230	--	5.0	9.5	10	.14	.06	--	--	--	--	--
13...	1630	--	5.5	10	10	.14	.06	--	--	--	--	--
13...	2015	--	2.4	4.9	5.4	.11	.05	--	--	--	--	--
14...	0015	--	4.2	7.3	7.6	.16	.07	--	--	--	--	--
14...	0445	--	6.6	12	12	.16	.07	--	--	--	--	--
14...	0830	--	5.2	10	12	.13	.06	--	--	--	--	--
14...	1245	--	8.8	15	15	.17	.07	--	--	--	--	--

DATE	TIME	CHLORO-	CHLORO-	BIOMASS/	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO-	ALGAL
		PHYLL a, SUS- PENDED (UG/L)	PHYLL b, SUS- PENDED (UG/L)	CHLORO- PHYLL RATIO (UNITS)			PLANK- TON, TOTAL (CELLS PER ML)	GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
AUG, 1980								
12...	1045	.900	.171	10000	675	666	--	--
13...	1230	2.33	.611	3863	659	650	3841	8.1
13...	1630	--	--	--	--	--	3261	--
13...	2015	--	--	--	--	--	2354	--
14...	0015	.277	←.158	28880	686	678	1579	24
14...	0445	--	--	--	--	--	1453	--
14...	0830	--	--	--	--	--	2683	--
14...	1245	--	--	--	--	--	5326	--

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0530	e55	17.5	660	18.5	--	--	188	--	7.6	70	--
06...	0730	e60	18.0	660	18.0	--	--	190	--	7.8	70	--
06...	1000	e80	17.5	660	18.5	--	--	183	--	8.9	71	--
06...	1145	e90	20.0	660	20.0	--	--	183	--	9.5	69	--
06...	1400	e95	20.0	660	22.0	--	--	180	--	9.8	70	--
06...	1545	e95	18.0	660	24.0	--	--	157	--	10.1	68	--
06...	1745	e90	20.0	660	23.5	--	--	176	--	10.4	68	--
06...	1900	e90	23.0	660	22.5	--	--	181	--	10.4	68	--
06...	2045	e85	--	660	21.5	--	--	180	--	10.1	69	--
07...	0545	e70	--	665	15.5	--	--	152	--	--	67	--
07...	0715	e65	9.0	665	15.0	--	--	164	--	--	--	--
07...	0900	e65	11.0	665	15.5	--	--	174	--	--	--	--
07...	1100	e70	13.5	665	18.0	--	--	178	--	--	--	--
07...	1230	e75	13.0	665	19.5	--	--	166	--	--	65	--
07...	1500	e70	16.0	665	22.0	--	--	170	--	--	--	--
07...	1630	e70	17.5	665	22.5	--	--	173	--	--	63	--
07...	1800	e70	14.5	665	22.0	--	--	181	--	--	--	--
07...	1915	e65	14.0	665	21.0	--	--	160	--	--	63	--
AUG, 1979												
09...	0900	46	21.5	e658	21.0	5.0	66	265	--	7.8	--	--
09...	1045	41	25.5	e658	21.0	6.6	87	270	--	8.0	--	--
09...	1300	33	--	e658	21.5	8.8	117	278	--	8.3	--	--
09...	1500	27	30.5	e658	23.5	11.6	161	273	--	8.8	--	--
09...	1645	25	--	e657	25.0	11.8	166	250	--	9.0	--	--
09...	2115	26	--	661	26.0	10.0	141	260	--	9.3	102	--
09...	2345	31	22.0	660	25.0	8.0	111	263	--	9.2	102	--
10...	0200	31	21.5	660	24.0	5.4	68	250	--	8.8	103	--
10...	0400	31	21.0	661	22.5	4.1	53	249	159	8.3	105	--
10...	0600	31	--	661	22.0	3.4	45	254	--	7.9	107	--
10...	0730	34	24.0	661	22.0	3.6	47	254	--	7.8	107	--
10...	0900	38	--	662	23.0	4.8	64	259	--	7.8	107	--
JUN, 1980												
03...	1650	2060	18.0	654	11.0	9.9	104	119	91	--	--	--
05...	1000	2020	13.0	e654	11.0	9.6	101	111	--	7.4	--	--
05...	1200	2030	18.0	e654	11.5	--	--	116	--	7.3	--	--
05...	1410	2030	--	e654	12.0	--	--	148	--	7.4	--	--
05...	1620	2030	19.0	e654	13.0	--	--	132	--	7.7	--	22
05...	1805	2030	18.0	e654	13.0	9.2	101	124	--	7.7	--	--
05...	2015	2010	13.0	e654	12.0	9.2	99	128	--	7.7	--	41
05...	2200	2000	11.5	e654	--	9.2	--	130	--	7.6	--	--
06...	0010	1970	9.0	e654	11.0	9.2	97	127	--	7.7	--	35
06...	0200	1970	9.0	e654	10.5	9.3	97	125	--	7.6	--	--
06...	0420	1950	6.5	e659	10.5	9.2	95	125	--	7.6	--	34
06...	0615	1950	5.5	e659	10.5	9.2	95	129	--	7.6	--	--
06...	0815	1950	11.0	e659	11.5	9.3	98	125	--	7.6	--	--
06...	1000	1940	14.5	e659	12.0	9.3	99	127	--	7.6	--	--
06...	1200	1950	20.0	e659	13.0	9.2	100	136	--	7.6	--	24
AUG, 1980												
12...	1030	75	29.5	656	20.0	9.7	123	248	153	8.6	--	5.0
13...	1015	55	29.0	e650	20.0	7.7	99	259	--	--	--	--
13...	1215	60	31.5	e650	21.5	10.2	136	256	--	8.0	--	3.4
13...	1445	55	34.5	e650	24.5	13.1	182	256	--	8.8	--	--
13...	1615	55	35.0	e650	26.0	13.0	188	254	--	8.6	--	5.0
13...	1815	55	32.5	e650	26.0	11.8	171	257	--	8.7	--	--
13...	2000	50	28.0	e650	25.5	9.8	140	259	--	8.7	--	3.5
13...	2200	50	25.0	655	24.0	7.6	106	264	--	8.6	--	--
13...	2400	50	23.0	e650	22.0	5.8	77	--	--	8.0	--	--
14...	0200	50	21.0	e650	21.0	5.0	65	269	--	--	--	--
14...	0430	50	19.5	e650	19.5	5.1	64	270	--	--	--	4.7
14...	0600	55	18.0	e650	18.0	5.4	66	272	--	--	--	--
14...	0815	55	--	e650	18.0	6.0	74	274	--	--	--	5.9
14...	1015	60	26.0	655	18.5	8.0	99	274	--	--	--	--
14...	1230	60	29.5	e650	20.0	11.2	144	269	--	--	--	7.5

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- TOTAL (MG/L AS P)
JUN, 1979										
06...	0530	.54	.04	.50	.34	.12	.22	.88	.22	.29
06...	0730	.53	.05	.48	.34	.14	.20	.87	.24	.32
06...	1000	.51	.04	.47	.18	.12	.06	.69	.28	.36
06...	1145	.65	.06	.59	.10	.10	.00	.75	.28	.36
06...	1400	.51	.02	.49	.03	.04	.00	.54	.29	.37
06...	1545	.64	.02	.62	.05	.06	.00	.69	.29	.36
06...	1745	.50	.05	.45	.05	.06	.00	.55	.28	.34
06...	1900	.44	.04	.40	.04	.04	.00	.48	.27	.32
06...	2045	.72	.07	.65	.04	.04	.00	.76	.25	.32
07...	0545	.67	.09	.58	.16	.10	.06	.83	.14	.19
07...	0900	.87	.10	.77	.16	.10	.06	1.0	.19	.25
07...	1230	.49	.12	.37	.10	.06	.04	.59	.25	.33
07...	1630	.79	.01	.78	.05	.06	.00	.84	.28	.33
07...	1915	.66	.04	.62	.03	.04	.00	.69	.25	.30
JUN, 1980										
03...	1650	.51	.10	.41	.19	.03	.16	.70	--	.16
AUG, 1980										
12...	1030	1.4	.02	1.4	.44	.04	.40	1.8	.26	.30
13...	1215	1.1	.07	1.0	.36	.03	.33	1.5	.31	.40
13...	2400	1.2	.04	1.2	--	--	--	--	.24	.38
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
09...	0900	.27	.03	.24	.09	.01	.08	.36	.34	.45
09...	1300	.31	.03	.28	.04	.01	.03	.35	.36	--
09...	1645	.50	.03	.47	.01	.01	.00	.51	.35	.41
09...	2115	.39	.03	.36	.00	.01	.00	.39	.32	.43
09...	2345	.43	.04	.39	.00	.01	.00	.43	.40	.45
10...	0200	.40	.01	.39	.01	.01	.00	.41	.35	.45
10...	0400	.37	.01	.36	.03	.00	.03	.40	.33	.41
10...	0730	.33	.03	.30	.05	.01	.04	.38	.36	.44
10...	0900	.33	.00	.33	.04	.01	.03	.37	.36	.45
JUN, 1980										
03...	1650	.53	.13	.40	.13	.02	.11	.66	.08	.13
05...	1200	.89	.25	.64	.36	.02	.34	1.3	.08	.11
05...	1620	.49	.26	.23	.45	.02	.43	.94	.13	.12
05...	2015	.44	.13	.31	.19	.01	.18	.63	.11	.08
06...	0010	.74	--	--	.23	.04	.19	.97	.19	.19
06...	0420	.64	.15	.49	.24	.04	.20	.88	.11	.09
06...	0815	.60	.22	.38	.30	.02	.28	.90	.12	.11
06...	1200	--	.18	--	.28	.03	.25	--	.13	.12
AUG, 1980										
12...	1030	.94	.03	.91	.44	.04	.40	1.4	.25	.26
13...	1215	.79	.03	.76	.35	.06	.29	1.1	.22	.34
13...	1615	1.1	.03	1.1	--	.02	--	--	.23	.26
13...	2000	.59	.03	.56	.40	.07	.33	.99	.35	.39
13...	2400	.63	.02	.61	.47	.08	.39	1.1	.26	.36
14...	0430	.72	.06	.66	.60	.08	.52	1.3	.42	.45
14...	0815	.51	.06	.45	.50	.06	.44	1.0	.36	.38
14...	1230	.51	.02	.49	.40	.09	.31	.91	.27	.36

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0530	--	1.8	4.2	5.1	.09	.04	2.9	5.2	5.4	--	--
06...	0730	--	--	--	--	--	--	1.8	3.8	4.3	--	--
06...	1000	--	2.0	4.4	5.1	.10	.04	2.1	4.6	5.2	--	--
06...	1400	--	2.1	4.5	5.1	.10	.04	2.2	4.6	5.0	--	--
06...	1745	--	2.0	4.8	5.9	.09	.04	2.4	5.9	7.3	--	--
06...	2045	--	1.7	4.0	5.0	.08	.03	2.0	4.7	5.8	--	--
07...	0545	--	1.6	3.9	5.0	.08	.03	1.8	5.1	7.6	--	--
07...	0900	.45	2.2	4.5	5.0	.12	.05	2.9	5.1	5.3	--	--
07...	1230	--	--	--	--	--	--	3.5	7.4	8.4	--	--
07...	1630	1.3	3.0	4.7	4.8	.20	.09	3.3	5.6	5.8	--	--
07...	1915	1.2	2.4	4.4	4.8	.14	.06	3.1	4.8	4.9	--	--
AUG, 1979												
09...	0900	.30	1.6	2.8	2.9	.15	.06	--	--	--	--	--
09...	1645	.03	2.3	3.9	4.0	.16	.07	--	--	--	--	--
09...	2115	--	1.1	3.0	4.2	.06	.03	--	--	--	--	--
10...	0200	--	1.6	3.4	4.0	.10	.04	--	--	--	--	--
10...	0900	--	2.1	4.6	5.4	.10	.04	--	--	--	--	--
JUN, 1980												
03...	1650	--	1.7	2.8	2.9	.18	.08	--	--	2.6	--	--
05...	1200	--	1.1	2.3	2.5	.12	.05	--	--	3.4	--	.9
05...	1620	.50	1.2	2.2	2.3	.14	.06	--	--	--	--	--
05...	2015	.04	.9	2.2	2.6	.09	.04	--	--	4.0	.14	1.4
06...	0010	--	1.0	2.3	2.7	.10	.04	--	--	3.3	--	.6
06...	0420	--	--	--	--	--	--	--	--	3.0	--	--
06...	0815	.47	1.0	1.9	2.1	.13	.06	--	--	3.9	.14	1.8
06...	1200	.64	1.5	2.6	2.8	.16	.07	--	--	3.4	--	.6
AUG, 1980												
12...	1030	--	2.0	3.8	4.0	.14	.06	--	--	5.7	--	1.7
13...	1215	--	3.3	6.2	6.6	.14	.06	--	--	7.5	--	.9
13...	1615	--	3.2	6.4	7.0	.13	.06	--	--	8.0	--	1.0
13...	2000	--	2.9	6.0	6.2	.13	.06	--	--	7.4	--	1.2
13...	2400	.08	3.0	5.2	5.4	.15	.06	--	--	6.3	--	.9
14...	0430	--	2.0	3.6	3.8	.15	.06	--	--	6.4	.04	2.6
14...	0815	.10	2.2	4.1	4.4	.15	.06	--	--	6.0	.09	1.6
14...	1230	.02	2.7	4.9	5.1	.15	.06	--	--	6.1	--	1.0
		DATE	TIME	CHLORO- PHYLL a, SUS- PENDE (UG/L)	CHLORO- PHYLL b, SUS- PENDE (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
AUG, 1979												
	09...	0900		.446	.036	33630	353	338	--	--		
	09...	1300		.473	.090	29600	338	324	--	--		
	09...	1645		.914	.207	8753	412	404	--	42		
	09...	2115		1.05	.207	10480	423	412	--	--		
	09...	2345		4.20	1.23	2857	419	407	--	--		
	10...	0400		.836	.212	9569	420	412	--	--		
	10...	0730		1.15	.238	6087	423	416	--	--		
JUN, 1980												
	03...	1650		1.19	.222	5042	369	363	--	14		
	05...	1200		.930	.186	7527	367	360	666	12		
	05...	2015		1.47	.249	4762	311	304	--	--		
	06...	0010		.977	.153	7165	304	297	462	9.7		
AUG, 1980												
	12...	1030		2.36	1.04	3814	665	656	--	--		
	13...	1215		4.11	1.87	1946	664	656	3597	12		
	13...	1615		--	--	--	--	--	4236	--		
	13...	2000		--	--	--	--	--	2019	--		
	13...	2400		1.35	.769	6667	664	655	3025	20		
	14...	0430		--	--	--	--	--	2984	--		
	14...	0815		--	--	--	--	--	3255	--		
	14...	1230		--	--	--	--	--	3513	--		

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0700	a105	18.0	660	18.0	—	—	276	—	9.0	82	—
06...	0900	—	17.0	665	18.0	—	—	275	—	9.0	82	—
06...	1115	—	22.0	665	19.5	—	—	265	—	9.2	82	—
06...	1330	—	21.0	665	21.5	—	—	268	—	9.1	84	—
06...	1500	108	22.0	660	23.0	—	—	270	—	9.4	80	—
06...	1700	—	26.0	660	23.0	—	—	291	—	—	—	—
06...	1815	—	24.5	660	22.5	—	—	268	—	9.6	81	—
06...	2015	—	16.0	660	21.0	—	—	300	—	9.6	—	—
07...	0630	—	9.0	665	13.0	—	—	311	—	9.0	88	—
07...	0745	—	10.5	665	12.5	—	—	304	—	8.9	84	—
07...	0945	—	12.0	665	14.0	—	—	305	—	—	—	—
07...	1145	—	13.0	665	16.5	—	—	292	—	—	—	—
07...	1330	—	14.5	665	19.5	—	—	300	—	—	78	—
07...	1530	—	16.5	665	21.5	—	—	294	—	—	—	—
07...	1715	—	15.5	665	21.5	—	—	294	—	—	—	—
07...	1845	—	15.5	665	22.0	—	—	292	—	—	—	—
07...	2015	—	12.0	665	20.5	—	—	292	—	—	80	—
AUG, 1979												
09...	0945	a35	25.5	662	21.5	6.6	87	460	—	8.4	—	—
09...	1145	47	24.5	e662	23.5	8.4	115	458	—	8.4	—	—
09...	1400	—	29.5	e661	27.0	10.1	146	442	—	8.7	—	—
09...	1550	—	33.5	e661	28.0	10.4	153	442	—	8.8	—	—
09...	1700	—	33.5	e662	29.0	10.2	152	431	281	8.9	—	—
09...	1945	—	27.5	e660	28.0	8.4	123	456	—	8.8	—	—
09...	2200	—	18.0	e660	26.0	6.8	96	446	—	8.7	—	—
10...	0010	—	16.0	e661	25.5	5.7	80	453	287	8.5	—	—
10...	0200	—	13.5	e661	23.0	5.1	68	463	—	8.5	—	—
10...	0400	—	15.5	e661	20.0	4.6	58	477	—	8.2	—	—
10...	0610	—	19.0	e662	21.5	4.6	58	466	—	8.1	—	—
10...	0800	—	26.0	e662	21.5	5.0	63	460	—	8.2	—	—
JUN, 1980												
05...	1015	a2040	22.0	e660	11.5	9.2	99	124	—	7.7	—	—
05...	1205	—	20.0	e658	13.0	8.9	97	118	—	—	—	—
05...	1415	—	16.0	e658	13.5	8.9	98	124	—	7.4	—	—
05...	1615	—	16.5	e658	13.5	9.0	99	126	—	7.5	—	31
05...	1800	—	16.0	e658	13.5	—	—	129	—	—	—	—
05...	2000	—	14.5	e658	12.5	9.0	97	129	—	—	—	36
05...	2200	—	9.2	e659	11.5	—	—	124	—	—	—	—
05...	2400	—	7.5	e658	10.5	8.9	92	130	—	—	—	31
06...	0200	—	5.5	e659	10.0	9.0	92	133	—	—	—	—
06...	0400	—	2.0	e659	9.5	9.1	92	131	—	7.9	—	25
06...	0600	—	4.5	e659	9.5	9.3	94	127	—	8.0	—	—
06...	0800	—	11.0	e659	10.5	9.3	96	136	—	7.9	—	21
06...	1000	—	15.5	e660	12.0	9.4	100	134	—	8.0	—	—
06...	1200	—	17.5	e660	14.0	9.3	103	139	—	7.9	—	30
AUG, 1980												
12...	1125	—	30.5	—	20.5	9.4	—	369	201	7.7	—	3.6
13...	1000	a55	26.5	e660	19.5	7.2	89	—	—	—	—	—
13...	1200	—	31.0	e660	21.0	8.0	103	377	—	8.2	—	3.5
13...	1400	—	31.0	e57	23.5	10.0	137	—	—	8.6	—	—
13...	1600	—	32.0	e660	25.5	11.2	158	368	—	9.0	—	4.5
13...	1800	—	32.0	e55	26.0	11.0	155	387	—	9.1	—	—
13...	2000	—	25.0	e660	25.0	9.8	136	384	—	9.2	—	—
13...	2200	—	24.5	e660	23.5	8.0	110	380	—	9.3	—	—
13...	2400	—	23.5	e660	21.5	6.5	86	377	—	9.2	—	5.8
14...	0200	—	15.5	e660	20.5	5.5	70	385	—	8.9	—	—
14...	0400	—	8.5	e660	19.5	5.2	64	394	—	8.7	—	7.8
14...	0600	—	7.0	e660	18.5	4.8	59	398	—	8.4	—	—
14...	0800	—	22.0	e57	18.0	5.2	63	398	—	8.1	—	5.5
14...	1000	—	24.5	e660	18.5	6.4	79	404	—	8.0	—	—
14...	1200	—	30.0	e660	20.0	8.0	101	406	—	8.8	—	7.9

a Average streamflow estimated for the synoptic sampling period.

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0700	.60	.01	.59	.03	.02	.01	.63	.18	.29
06...	0900	.54	.04	.50	.02	.00	.02	.56	.19	.27
06...	1115	.46	.04	.42	.01	.00	.01	.47	.17	.27
06...	1330	.58	.02	.56	.02	.02	.00	.60	.14	.27
06...	1500	.56	.03	.53	.01	.00	.01	.57	.14	.22
06...	1700	.48	.03	.45	.01	.00	.01	.49	.15	.20
06...	1815	.52	.03	.49	.01	.02	.00	.53	.15	.22
06...	2015	—	.08	—	.01	.00	.01	—	.14	.22
07...	0630	.68	.05	.63	.00	.00	.00	.68	.18	.25
07...	0945	.73	.01	.72	.02	.02	.00	.75	.15	.18
07...	1330	.66	.04	.62	.01	.02	.00	.67	.19	.23
07...	1715	.59	.06	.53	.01	.00	.01	.60	.14	.18
07...	2015	.66	.03	.63	.00	.00	.00	.66	.15	.18
JUN, 1980										
05...	1205	.62	.10	.52	.25	.03	.22	.87	.10	.16
05...	2000	.77	.13	.64	.23	.02	.21	1.0	.12	—
06...	0400	.50	—	—	—	.03	—	—	.10	.14
06...	1200	.57	.10	.47	.25	.03	.22	.82	.13	.18
AUG, 1980										
12...	1125	—	.07	—	.01	.01	.00	—	.20	.24
13...	1200	.65	.09	.56	.00	.00	.00	.65	.20	.28
13...	2400	.79	—	—	.00	.00	.00	.79	.26	.34
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
09...	0945	.29	.07	.22	.00	.00	.00	.29	—	.23
09...	1400	.18	.00	.18	.00	.00	.00	.18	.22	.26
09...	1700	.34	.01	.33	.00	.00	.00	.34	.22	.21
10...	0010	.25	.01	.24	.00	.00	.00	.25	.21	.20
10...	0400	.27	.00	.27	.00	.01	.00	.27	.20	.23
10...	0800	.37	.01	.36	.01	.01	.00	.38	.21	.26
JUN, 1980										
05...	1205	—	.10	—	.25	.03	.22	—	.10	.10
05...	1615	.46	.18	.28	.28	.02	.26	.74	.14	.11
05...	2000	—	—	—	—	.02	—	—	.13	.12
05...	2400	.23	.10	.13	.21	.01	.20	.44	.11	.08
06...	0400	—	.10	—	—	.02	—	—	.11	.09
06...	0800	.57	.17	.40	.54	.02	.52	1.1	.11	.08
06...	1200	—	.13	—	—	.03	—	—	.08	.11
AUG, 1980										
12...	1125	.86	.05	.81	.00	.00	.00	.86	.19	.21
13...	1200	.58	.03	.55	.00	.01	.00	.58	.17	.22
13...	1600	.43	.00	.43	.00	.01	.00	.43	.14	.24
13...	2000	.61	.06	.55	.00	.02	.00	.61	.18	.28
13...	2400	.63	.05	.58	.00	.01	.00	.63	.21	.22
14...	0400	.77	.07	.70	.00	.01	.00	.77	.25	.26
14...	0800	.50	.03	.47	.00	.01	.00	.50	.22	.27
14...	1200	.48	.04	.44	.00	.02	.00	.48	.22	.25

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0700	--	4.2	8.6	9.6	.11	.05	3.8	7.9	8.8	--	--
06...	1115	--	3.5	6.4	6.7	.15	.06	1.8	4.6	5.8	--	--
06...	1330	--	1.8	4.7	6.1	.07	.03	2.9	6.0	6.6	--	--
06...	1700	.13	3.8	7.3	7.8	.14	.06	2.8	6.7	8.1	--	--
06...	2015	--	2.2	5.6	7.6	.07	.03	2.9	7.3	9.6	--	--
07...	0630	--	1.8	5.1	7.7	.05	.02	2.3	5.6	7.0	--	--
07...	0945	.41	3.1	4.6	4.7	.22	.10	3.2	6.7	7.6	--	--
07...	1330	.56	3.3	5.2	5.3	.20	.09	3.5	7.4	8.3	--	--
07...	1715	.82	2.8	4.8	5.0	.16	.07	2.9	5.2	5.4	--	--
07...	2015	.82	3.0	6.1	6.8	.11	.05	3.0	6.5	7.4	--	--
AUG, 1979												
09...	0945	--	2.0	3.9	4.3	.13	.06	--	--	--	--	--
09...	1400	.75	1.9	3.4	3.5	.16	.07	--	--	--	--	--
09...	1700	--	2.4	4.1	4.2	.17	.07	--	--	--	--	--
10...	0400	.10	1.8	3.0	3.1	.17	.07	--	--	--	--	--
JUN, 1980												
05...	1205	.02	1.6	3.4	3.8	.12	.05	--	--	--	--	--
05...	1615	.46	1.3	2.6	2.8	.13	.06	--	--	--	--	--
05...	2000	.45	1.1	2.2	2.4	.12	.09	--	--	--	--	--
05...	2400	.53	1.1	2.6	3.0	.09	.04	--	--	--	--	--
06...	0400	.44	.9	1.8	2.0	.11	.05	--	--	--	--	--
06...	0800	.22	1.2	2.3	2.5	.13	.06	--	--	--	--	--
06...	1200	.25	1.1	2.2	2.4	.12	.05	--	--	--	--	--
AUG, 1980												
12...	1125	--	2.3	4.7	5.2	.12	.05	--	--	--	--	--
13...	1200	--	2.4	4.5	4.8	.14	.06	--	--	--	--	--
13...	1600	--	2.9	5.6	6.0	.14	.06	--	--	--	--	--
13...	2000	--	3.0	5.4	5.7	.15	.06	--	--	--	--	--
13...	2400	--	3.2	6.2	6.7	.13	.06	--	--	--	--	--
14...	0400	--	3.2	5.6	5.8	.16	.07	--	--	--	--	--
14...	0800	--	3.0	5.5	5.9	.14	.06	--	--	--	--	--
14...	1200	.12	3.4	5.9	6.1	.16	.07	--	--	--	--	--
DATE	TIME	CHLORO- PHYLL <i>a</i> , SUS- PENDEDED (UG/L)	CHLORO- PHYLL <i>b</i> , SUS- PENDEDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
09...	0945	1.05	.181	10480	378	367	--	--				
09...	1400	1.37	.207	6569	363	354	--	--				
09...	1700	.525	.095	22860	413	401	--	--				
10...	0010	1.58	.190	7595	425	413	--	--				
10...	0400	1.92	.212	4688	446	437	--	--				
10...	0800	2.31	.297	6061	416	402	--	--				
JUN, 1980												
05...	1205	--	--	--	--	--	348	--				
05...	2400	--	--	--	--	--	426	--				
AUG, 1980												
12...	1125	.865	.305	9249	637	629	--	--				
13...	1200	1.24	.329	5645	671	664	3605	2.0				
13...	1600	--	--	--	--	--	4035	--				
13...	2000	--	--	--	--	--	3568	--				
13...	2400	.975	.344	9231	685	676	3353	2.6				
14...	0400	--	--	--	--	--	3154	--				
14...	0800	--	--	--	--	--	3295	--				
14...	1200	--	--	--	--	--	3893	--				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
07...	0540	α65	10.0	665	14.0	7.4	82	381	--	--	84	--
07...	0740	--	9.5	665	14.5	7.8	87	393	--	--	--	--
07...	0940	--	--	665	15.0	8.4	95	378	--	--	--	--
07...	1130	--	13.0	665	18.0	--	--	399	--	--	--	--
07...	1330	--	18.0	665	21.0	8.9	114	394	--	--	88	--
07...	1530	--	22.0	665	22.0	8.8	114	403	--	--	--	--
07...	1730	--	21.0	665	22.0	8.8	114	413	--	--	81	--
07...	1930	--	21.0	665	21.0	8.5	109	432	--	--	--	--
08...	0615	--	11.5	670	13.5	7.9	86	390	--	--	86	--
08...	0745	--	14.5	670	13.5	8.1	88	394	--	--	--	--
08...	0910	--	19.5	670	15.5	8.3	94	378	--	--	85	--
08...	1110	52	22.0	670	18.0	8.6	102	413	--	--	--	--
08...	1310	--	23.0	670	21.5	9.0	115	401	--	--	--	--
08...	1510	--	21.5	665	23.5	8.7	116	405	--	--	--	--
08...	1710	--	20.0	665	24.0	8.3	112	401	--	--	84	--
08...	1910	--	19.5	665	22.0	8.2	104	406	--	--	--	--
08...	2010	--	19.0	665	23.0	7.9	96	443	--	--	84	--
AUG, 1979												
09...	1005	α30	24.5	664	23.0	9.0	120	649	--	8.4	112	--
09...	1200	31	33.0	664	25.0	10.0	139	648	--	8.5	--	--
09...	1400	--	38.5	663	28.0	10.4	153	639	--	8.7	121	--
09...	1600	--	38.5	663	30.0	10.4	158	598	--	8.9	126	--
09...	1800	--	34.0	662	29.5	9.6	145	619	--	8.9	--	--
09...	2000	--	31.0	662	27.5	7.4	109	614	--	8.8	--	--
09...	2200	--	24.5	662	25.5	6.1	85	594	--	8.6	--	--
10...	0015	--	20.0	663	23.0	5.7	75	564	--	8.4	--	--
10...	0205	--	18.5	663	22.5	5.2	68	588	--	8.3	--	--
10...	0405	--	18.0	663	21.0	5.4	69	587	400	8.2	--	--
10...	0605	--	22.5	664	21.0	5.7	73	596	--	8.0	--	--
10...	0820	--	27.0	664	22.5	7.0	92	588	--	8.1	--	--
JUN, 1980												
03...	1605	--	16.5	657	11.0	9.9	104	135	90	--	--	--
05...	1000	α2050	14.0	661	11.0	9.5	99	--	--	7.7	--	--
05...	1200	--	13.0	659	12.0	9.5	101	--	--	7.7	--	27
05...	1400	--	16.0	659	12.5	9.3	100	135	--	7.7	--	--
05...	1550	--	17.0	659	14.0	9.2	102	141	--	7.7	--	30
05...	1755	--	19.0	659	14.0	9.1	101	142	--	7.8	--	--
05...	2000	--	14.0	659	13.0	9.0	98	140	--	7.8	--	--
05...	2200	--	12.0	660	12.0	8.9	95	142	--	7.8	--	--
05...	2355	--	10.0	659	11.5	9.1	96	140	--	7.9	--	--
06...	0200	--	10.0	660	11.0	9.3	97	138	--	7.8	--	--
06...	0400	--	9.5	660	10.0	9.4	96	145	--	7.8	--	52
06...	0555	--	5.5	660	10.0	9.5	97	143	--	7.8	--	--
06...	0755	--	11.0	660	11.0	9.6	100	141	--	7.9	--	40
06...	0955	--	14.0	661	11.0	9.7	101	145	--	7.7	--	--
06...	1150	--	19.0	661	12.0	9.6	102	142	--	7.7	--	33
AUG, 1980												
12...	1015	--	--	--	21.0	--	--	--	278	8.0	--	5.6
13...	1035	α45	28.5	660	21.5	8.4	109	477	--	8.4	--	--
13...	1245	--	--	660	24.0	9.0	123	490	--	8.4	--	3.4
13...	1430	--	32.5	660	25.5	9.2	130	502	--	8.5	--	--
13...	1645	--	32.5	660	26.5	9.1	128	505	--	8.5	--	3.2
13...	1830	--	30.0	660	25.0	8.4	117	520	--	8.5	--	--
13...	2045	--	26.0	660	23.0	6.4	85	528	--	8.3	--	7.5
13...	2230	--	22.5	660	21.0	6.1	78	520	--	8.3	--	--
14...	0030	--	19.5	660	20.0	6.0	76	527	--	8.1	--	6.6
14...	0245	--	--	660	19.0	5.9	73	529	--	8.0	--	--
14...	0445	--	18.5	660	18.5	6.0	73	521	--	7.9	--	3.5
14...	0645	--	18.0	660	18.0	6.2	76	532	--	7.8	--	--
14...	0830	--	23.0	660	18.0	7.3	89	528	--	8.0	--	6.0
14...	1030	--	25.0	660	19.5	8.4	105	530	--	8.3	--	--
14...	1200	--	28.5	660	21.0	9.2	118	525	--	8.4	--	7.2

α Average streamflow estimated for the synoptic sampling period.

e Estimated.

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON—Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
07...	0540	.48	.05	.43	.01	.02	.00	.49	.15	.18
07...	0940	.41	.04	.37	.02	.02	.00	.43	.15	.19
07...	1330	.64	.05	.59	.01	.02	.00	.65	.15	.18
07...	1730	.66	.01	.65	.01	.00	.01	.67	.14	.19
07...	1930	.48	.02	.46	.02	.02	.00	.50	.15	.16
08...	0615	.73	.01	.72	.01	.02	.00	.74	.14	.19
08...	0910	.49	.01	.48	.00	.00	.00	.49	.15	.19
08...	1710	.70	.06	.64	.02	.02	.00	.72	.17	—
08...	2010	.49	.03	.46	.02	.02	.00	.51	.16	.20
JUN, 1980										
03...	1605	—	—	—	.32	.04	.28	—	.23	—
05...	1200	.58	.04	.54	—	.03	—	—	.11	.16
05...	2000	.48	.10	.38	.37	.03	.34	.85	.13	.13
06...	0400	.63	—	—	.23	.02	.21	.86	.12	.16
06...	1150	.41	.04	.37	.28	.03	.25	.69	.10	.16
AUG, 1980										
12...	1015	.99	.02	.97	.00	.00	.00	.99	.23	.26
13...	1245	—	.02	—	.00	.00	.00	—	.20	.28
14...	0030	.92	.01	.91	.00	.02	.00	.92	.21	.27
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL DIS- SOLVED (MG/L AS P)
AUG, 1979										
09...	1200	.67	.01	.66	.03	.00	.03	.70	.18	—
09...	1600	.52	.00	.52	.03	.01	.02	.55	.10	.11
09...	2000	.48	.01	.47	.00	.00	.00	.48	.13	.16
10...	0015	.45	.01	.44	.00	.00	.00	.45	.13	.12
10...	0405	.32	.00	.32	.00	.00	.00	.32	.12	.14
10...	0820	.26	.01	.25	.00	.00	.00	.26	.10	.17
JUN, 1980										
03...	1605	.40	.16	.24	.30	.02	.28	.70	.17	.18
05...	1200	—	—	—	.34	.03	.31	—	.05	.09
05...	1550	.33	.13	.20	.24	.02	.22	.57	.14	.11
05...	2000	—	.04	—	.32	.03	.29	—	.13	.13
05...	2355	.40	.13	.27	.18	.02	.16	.58	.14	.14
06...	0400	.52	.04	.48	—	.02	—	—	.05	.09
06...	0755	.37	.12	.25	—	.02	—	—	.09	.08
06...	1150	—	.04	—	—	.03	—	—	.11	.09
AUG, 1980										
12...	1015	.71	.01	.70	.00	.00	.00	.71	.22	.23
13...	1245	—	.03	—	.00	.00	.00	—	.20	.23
13...	1645	.60	.04	.56	.00	.00	.00	.60	.12	.15
13...	2045	1.0	.07	.93	.00	.01	.00	1.0	.16	.20
14...	0030	.75	.01	.74	.00	.01	.00	.75	.19	.22
14...	0445	.71	.05	.66	.00	.02	.00	.71	.22	.25
14...	0830	.72	.03	.69	.00	.00	.00	.72	.21	.26
14...	1200	.86	.05	.81	.00	.02	.00	.86	.23	.26

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON—Continued

CARBONACEOUS BOD												
DATE	TIME							TOTAL BOD			NITROGENOUS BOD	
		LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
07...	0540	.19	2.9	5.1	5.3	.16	.07	2.2	4.8	5.6	—	—
07...	0940	1.2	1.9	3.7	4.0	.13	.06	1.8	3.7	4.1	—	—
07...	1330	1.4	2.4	4.2	4.4	.16	.07	2.4	5.4	6.2	—	—
07...	1730	.68	2.0	4.3	4.9	.10	.04	2.1	5.8	8.4	—	—
07...	1930	1.4	3.0	4.7	4.8	.20	.09	2.4	4.4	4.6	—	—
08...	0615	—	3.8	6.5	6.8	.17	.07	—	—	—	—	—
08...	1310	—	2.5	4.3	4.5	.16	.07	2.5	4.5	4.7	—	—
08...	1710	—	2.4	5.3	6.0	.11	.05	2.6	4.6	4.7	—	—
08...	2010	.69	2.6	4.0	4.1	.21	.09	2.8	4.8	4.9	—	—
AUG, 1979												
09...	1200	.80	2.2	3.3	3.4	.21	.09	—	—	—	—	—
09...	1600	—	2.4	4.2	4.3	.16	.07	—	—	—	—	—
09...	2000	—	1.6	3.5	4.0	.10	.04	—	—	—	—	—
10...	0015	—	1.8	3.3	3.5	.15	.06	—	—	—	—	—
10...	0405	—	1.8	2.8	2.8	.20	.09	—	—	—	—	—
10...	0820	—	1.2	3.0	3.7	.08	.03	—	—	—	—	—
JUN, 1980												
03...	1605	.19	1.8	3.1	3.2	.16	.07	1.9	3.2	3.3	—	—
05...	1200	.08	1.0	2.4	2.9	.09	.04	1.2	2.7	3.2	—	—
05...	1550	.49	1.1	2.6	3.1	.09	.04	—	—	—	—	—
05...	2000	—	1.0	2.5	3.6	.06	.03	1.4	3.6	4.9	—	—
05...	2355	—	1.3	2.7	3.1	.11	.05	1.4	3.0	3.3	—	—
06...	0400	.13	1.2	2.5	2.8	.12	.05	.7	1.9	2.5	—	—
06...	0755	—	.9	1.9	2.1	.11	.05	1.1	2.4	2.8	—	—
06...	1150	—	1.1	2.2	2.5	.11	.05	1.1	2.6	3.1	—	—
AUG, 1980												
12...	1015	—	1.3	3.3	4.2	.08	.03	—	—	4.7	—	.5
13...	1245	—	1.8	3.4	3.6	.14	.06	—	—	4.6	—	1.0
13...	1645	—	1.9	4.0	4.5	.11	.05	—	—	5.9	—	1.4
13...	2045	—	2.2	3.7	3.8	.17	.07	—	—	5.2	.15	1.4
14...	0030	—	2.1	4.0	4.3	.13	.06	—	—	—	—	—
14...	0445	—	1.5	3.3	4.0	.09	.04	—	—	4.7	.04	.7
14...	0830	.10	1.9	3.7	4.0	.13	.06	—	—	4.9	.04	.9
14...	1200	.58	1.9	3.9	4.4	.11	.05	—	—	5.2	—	.8

DATE	TIME	CHLORO- PHYLL α , SUS- PENDEDED (UG/L)	CHLORO- PHYLL β , SUS- PENDEDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
AUG, 1979								
09...	1200	1.50	.199	6667	367	357	--	--
09...	1600	2.29	.530	4367	425	415	--	9.6
09...	2000	2.76	.342	3261	--	--	--	--
10...	0015	2.23	.304	4484	--	--	--	--
10...	0405	2.01	.283	2985	403	397	--	3.1
10...	0820	2.51	.495	2789	431	424	--	--
JUN, 1980								
03...	1605	.168	<.087	35710	303	297	--	16
05...	1200	1.23	.202	5691	361	354	442	10
05...	2355	--	--	--	--	--	360	11
AUG, 1980								
12...	1015	1.44	.305	4861	672	665	--	--
13...	1245	.865	.305	10400	674	665	4433	1.9
13...	1645	--	--	--	--	--	4643	--
13...	2045	--	--	--	--	--	3522	--
14...	0030	.346	<.197	26010	668	659	4444	1.0
14...	0445	--	--	--	--	--	3930	--
14...	0830	--	--	--	--	--	4733	--
14...	1200	--	--	--	--	--	3892	--

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
07...	0640	a75	11.0	665	15.0	6.8	77	419	--	--	--	--
07...	0840	--	11.5	665	17.0	6.8	81	389	--	--	--	--
07...	1040	--	14.5	665	16.0	--	--	415	--	--	85	--
07...	1230	--	17.0	665	16.0	--	--	411	--	--	--	--
07...	1430	--	20.0	665	17.0	7.1	85	418	--	--	--	--
07...	1630	--	19.5	665	17.5	7.8	94	404	--	--	--	--
07...	1830	--	19.0	665	18.0	9.0	108	406	--	--	--	--
07...	2030	--	16.0	665	17.5	8.8	105	404	--	--	--	--
08...	0700	--	10.5	670	17.5	6.3	75	374	--	--	87	--
08...	0820	--	15.0	670	17.5	6.7	80	369	--	--	--	--
08...	1000	--	19.0	--	18.5	--	--	420	--	--	--	--
08...	1200	67	22.5	670	20.0	6.8	89	380	--	--	--	--
08...	1410	--	23.0	665	20.0	--	--	385	--	--	85	--
08...	1610	--	24.5	665	20.0	7.8	105	396	--	--	--	--
08...	1810	--	24.5	665	19.5	8.1	101	405	--	--	87	--
08...	2010	--	21.5	665	19.0	7.8	95	399	--	--	86	--
AUG, 1979												
09...	1030	a30	31.0	665	23.0	9.1	121	664	--	9.0	104	--
09...	1230	33	36.5	665	24.0	9.6	130	653	--	9.0	140	--
09...	1430	--	--	665	23.5	9.8	134	659	--	9.0	125	--
09...	1630	--	35.0	664	24.0	10.2	140	662	--	9.1	140	--
09...	1830	--	--	664	24.5	8.0	110	642	--	9.2	--	--
09...	2025	--	31.0	664	23.0	8.2	109	649	--	9.0	--	--
09...	2230	--	23.5	663	22.0	8.1	106	577	--	8.9	--	--
10...	0035	--	22.0	664	22.0	8.0	105	610	--	8.9	--	--
10...	0220	--	20.5	664	21.5	6.6	87	616	--	8.8	--	--
10...	0435	--	22.0	665	21.5	6.7	88	616	--	8.9	--	--
10...	0620	--	22.5	664	22.0	6.6	87	627	--	8.8	--	--
10...	0800	--	25.0	665	23.0	7.0	93	632	--	8.8	--	--
JUN, 1980												
02...	1505	--	17.0	660	13.5	9.9	109	136	98	7.8	--	--
05...	1050	a2060	17.0	661	12.0	9.3	99	--	--	7.6	--	--
05...	1300	--	16.0	660	12.0	9.2	98	--	--	7.6	--	27
05...	1420	--	16.0	659	13.0	9.3	101	138	--	7.8	--	--
05...	1635	--	17.5	659	14.0	9.1	101	140	--	7.7	--	33
05...	1830	--	17.0	660	15.0	8.8	100	137	--	7.8	--	--
05...	2040	--	13.5	660	13.0	8.7	95	142	--	7.7	--	48
05...	2250	--	10.5	660	12.0	8.6	91	145	--	7.8	--	--
06...	0045	--	10.0	660	10.5	8.8	91	145	--	7.8	--	29
06...	0235	--	9.0	660	10.0	9.0	92	148	--	7.8	--	--
06...	0430	--	9.0	660	9.0	9.2	92	146	--	7.7	--	29
06...	0615	--	6.0	660	9.0	9.4	94	149	--	7.8	--	--
06...	0840	--	16.0	661	12.0	9.3	99	145	--	7.7	--	31
06...	1020	--	18.5	662	12.5	9.4	101	147	--	7.7	--	--
06...	1230	--	19.0	662	13.0	9.4	102	148	--	7.7	--	30
AUG, 1980												
12...	0900	--	--	--	21.0	8.2	--	482	294	8.2	--	9.9
13...	1000	a45	26.0	662	21.0	5.2	66	--	--	8.1	--	--
13...	1200	--	29.0	660	21.0	5.7	73	514	--	8.1	--	6.8
13...	1400	--	31.5	#660	22.0	7.5	99	517	--	8.3	--	--
13...	1600	--	--	#660	22.0	8.8	116	511	--	8.4	--	4.5
13...	1800	--	31.5	#660	22.5	--	--	520	--	8.4	--	--
13...	2000	--	27.0	#660	--	10.4	--	528	--	8.5	--	8.4
13...	2200	--	25.5	#660	21.0	10.3	132	536	--	8.6	--	--
13...	2400	--	23.5	#660	21.0	8.0	103	--	--	8.6	--	6.1
14...	0200	--	21.5	658	20.0	7.5	95	551	--	8.5	--	--
14...	0400	--	20.5	#660	20.0	7.4	94	552	--	8.5	--	4.7
14...	0615	--	18.5	#660	19.5	--	--	--	--	8.3	--	--
14...	0800	--	22.5	#660	19.5	6.8	85	541	--	--	--	5.1
14...	1000	--	25.0	659	19.5	6.0	75	541	--	8.2	--	--
14...	1130	--	27.0	#660	19.5	5.6	70	557	--	8.1	--	--

a Average streamflow estimated for the synoptic sampling period.

b Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1979										
07...	0640	.59	.12	.47	.01	.02	.00	.60	.19	.23
07...	1040	.82	.11	.71	.01	.02	.00	.83	.19	.23
07...	1430	.88	.15	.73	.01	.02	.00	.89	.18	.24
07...	1830	.67	.06	.61	.00	.00	.00	.67	.16	.20
07...	2030	.56	.07	.49	.02	.00	.02	.58	.18	.22
08...	0700	.66	.16	.50	.01	.02	.00	.67	.20	.25
08...	1000	.57	.11	.46	.02	.02	.00	.59	.18	.24
08...	1410	.73	.12	.61	.02	.02	.00	.75	.18	.23
08...	1810	.64	.13	.51	.01	.02	.00	.65	.17	.20
08...	2010	.65	.06	.59	.01	.00	.01	.66	.17	.21
JUN, 1980										
03...	1505	.62	—	—	.23	.01	.22	.85	.10	.17
05...	1300	.54	—	—	—	.03	—	—	.11	.15
05...	2040	.67	—	—	.42	.03	.39	1.1	.12	.12
06...	1230	.51	—	—	.24	.03	.21	.75	.08	.15
AUG, 1980										
12...	0900	1.0	.04	.96	.00	.01	.00	1.0	.26	.23
13...	1200	.86	.11	.75	.00	.00	.00	.86	.25	.32
13...	2400	.74	.03	.71	.00	.02	.00	.74	.29	.35
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
09...	1230	.50	.01	.49	.00	.00	.00	.50	.23	.22
09...	1630	.45	.03	.42	.00	.00	.00	.45	.22	.25
09...	2025	.41	.00	.41	.00	.00	.00	.41	.22	.26
10...	0035	.39	.03	.36	.00	.00	.00	.39	.22	.26
10...	0435	.37	.00	.37	.01	.01	.00	.38	.18	.25
10...	0800	.44	.00	.44	.01	.01	.00	.45	.22	.26
JUN, 1980										
03...	1505	—	.35	—	—	.02	—	—	.10	.10
05...	1300	.42	—	—	.45	.03	.42	.87	.08	.09
05...	1635	.54	.20	.34	.90	.03	.87	1.4	.09	.11
05...	2040	.45	.29	.16	.38	.03	.35	.83	.13	.13
06...	0045	—	.22	—	—	.02	—	—	.14	.11
06...	0430	.41	.25	.16	.31	.02	.29	.72	.11	.10
06...	0840	.27	.10	.17	—	.02	—	—	.10	.08
06...	1230	—	—	—	.27	.03	.24	—	.11	.09
AUG, 1980										
12...	0900	.97	.06	.91	—	.01	—	—	.23	.24
13...	1200	.79	.05	.74	.00	.01	.00	.79	.21	.27
13...	1600	.86	.03	.83	.00	.00	.00	.86	.16	.21
13...	2000	.80	.03	.77	.00	.00	.00	.80	.22	.26
13...	2400	.38	.02	.36	.00	.00	.00	.38	.12	.18
14...	0400	.44	.02	.42	.00	.00	.00	.44	.22	.26
14...	0800	.95	.09	.86	.00	.01	.00	.95	.22	.27
14...	1130	.96	.10	.86	.00	.01	.00	.96	.21	.25

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM--Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
07...	0640	.65	2.2	4.1	4.4	.14	.06	3.4	6.3	6.7	---	---
07...	1040	.82	2.4	4.6	5.0	.13	.06	2.4	4.3	4.5	---	---
07...	1430	.84	2.8	4.4	4.6	.19	.08	2.7	4.5	4.6	---	---
07...	1830	.42	3.4	5.8	6.1	.16	.07	---	---	---	---	---
07...	2030	.54	2.7	5.0	5.3	.14	.06	3.3	4.7	4.8	---	---
08...	1410	---	2.7	4.6	4.7	.17	.07	3.2	4.9	5.0	---	---
08...	1810	.07	4.2	6.1	6.2	.22	.10	3.5	6.1	6.4	---	---
08...	2010	.17	3.4	5.6	5.7	.19	.08	2.8	4.9	5.1	---	---
AUG, 1979												
09...	1630	---	4.8	7.8	8.1	.18	.08	---	---	---	---	---
09...	2025	1.3	2.3	3.5	3.6	.20	.09	---	---	---	---	---
10...	0035	---	3.0	6.6	7.7	.10	.04	---	---	---	---	---
10...	0435	.16	3.6	5.2	5.2	.23	.10	---	---	---	---	---
10...	0800	---	3.1	4.8	4.9	.20	.09	---	---	---	---	---
JUN, 1980												
03...	1505	.03	1.9	3.2	3.3	.17	.07	2.5	4.3	4.5	---	---
05...	1300	---	.7	1.9	2.6	.07	.03	.9	2.3	3.0	---	---
05...	1635	---	.8	2.0	2.9	.06	.03	1.3	2.9	3.4	---	---
05...	2040	---	1.0	2.4	3.0	.08	.03	1.1	2.5	2.9	---	---
06...	0045	---	1.1	2.5	3.0	.09	.04	.8	2.4	3.5	---	---
06...	0430	.44	.9	2.0	2.3	.10	.04	.8	2.0	2.6	---	---
06...	0840	.44	.8	1.9	2.2	.10	.04	1.2	2.4	2.7	---	---
06...	1230	---	.9	2.1	2.5	.09	.04	.7	1.9	2.3	---	---
AUG, 1980												
12...	0900	---	1.0	2.9	4.5	.05	.02	1.7	3.5	3.9	---	---
13...	1200	---	1.7	3.3	3.6	.13	.06	2.0	4.3	4.9	---	---
13...	1600	---	1.7	3.1	3.3	.14	.06	2.1	3.9	4.1	---	---
13...	2000	---	1.8	3.4	3.7	.14	.06	2.4	4.1	4.2	---	---
13...	2400	.03	2.2	3.5	3.6	.19	.08	2.0	3.8	4.0	---	---
14...	0400	.22	1.4	2.8	3.1	.12	.05	2.2	3.9	4.1	---	---
14...	0800	.76	1.3	2.6	2.8	.13	.06	1.8	3.2	3.4	---	---
14...	1130	---	1.6	3.2	3.5	.13	.06	1.9	3.8	4.1	---	---
		CHLORO- PHYLL α, SUS- PENDE (UG/L)	CHLORO- PHYLL β, SUS- PENDE (UG/L)	BIOMASS / CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)				
AUG, 1979												
09...	1230	9.71	.326	1545	349	334	3973	---				
09...	1630	4.20	.323	2381	426	416	4844	3.9				
09...	2025	7.25	.414	1379	416	406	4885	---				
10...	0035	4.69	.372	2132	414	404	4599	---				
10...	0435	5.52	.283	1993	419	408	3351	2.8				
10...	0800	7.36	.495	1359	415	404	7262	---				
JUN, 1980												
03...	1505	1.01	<.130	7921	493	485	---	18				
05...	1300	.691	.089	7236	319	314	331	19				
06...	0045	.767	.088	9126	337	330	311	11				
AUG, 1980												
12...	0900	.769	.271	9103	681	674	---	---				
13...	1200	1.60	.260	5625	668	659	4197	6.8				
13...	1600	---	---	---	---	---	5193	---				
13...	2000	---	---	---	---	---	4245	---				
13...	2400	.658	.187	12160	662	654	3877	1.5				
14...	0400	---	---	---	---	---	3877	---				
14...	0800	---	---	---	---	---	5426	---				
14...	1130	---	---	---	---	---	3884	---				

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE, OF WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
06...	0635	a360	--	--	--	5.7	--	--	--	--	--	--
06...	0745	--	21.0	650	19.5	6.2	78	--	--	--	--	--
06...	0815	--	--	650	19.0	7.3	91	--	--	--	--	--
06...	0955	--	21.5	650	19.0	7.2	90	--	--	--	--	--
06...	1145	--	23.0	650	19.0	7.2	90	158	--	7.7	56	--
06...	1330	--	--	650	19.5	7.4	94	160	--	--	--	--
06...	1540	--	--	650	20.0	6.8	87	161	--	7.7	54	--
06...	1635	--	--	650	20.0	7.0	90	164	--	7.7	--	--
06...	1850	--	--	650	19.5	6.9	87	--	--	--	--	--
06...	1900	--	--	650	19.5	6.9	87	--	--	--	--	--
06...	2025	--	--	650	19.5	7.1	90	--	--	--	57	--
06...	2250	--	--	650	19.5	7.1	90	--	--	--	60	--
07...	0545	--	12.5	655	18.5	--	--	--	--	--	52	--
07...	0745	--	14.0	655	18.0	6.8	83	182	--	--	--	--
07...	0840	--	--	655	17.5	6.8	83	175	--	--	--	--
07...	0945	--	16.0	655	17.5	6.8	83	--	--	--	--	--
07...	1145	--	17.0	655	17.0	6.9	82	178	--	--	--	--
07...	1345	--	18.0	655	17.5	7.0	85	183	--	--	50	--
07...	1545	--	19.5	655	17.5	7.2	88	182	--	--	--	--
07...	1745	--	21.0	655	17.5	7.5	91	185	--	--	50	--
07...	1945	--	21.0	655	17.5	7.7	94	185	--	--	--	--
07...	2145	--	19.0	655	17.5	7.9	96	185	--	--	--	--
08...	1200	--	--	655	17.5	--	--	161	--	--	--	--
08...	1530	--	--	655	17.5	8.0	98	171	--	--	--	--
08...	1600	--	--	655	17.5	7.8	95	175	--	--	--	--
08...	1645	--	--	655	17.0	7.7	92	179	--	--	--	--
08...	1700	--	--	655	17.0	7.6	90	177	--	--	--	--
AUG, 1979												
09...	1000	a170	--	e657	23.0	6.4	85	241	--	8.3	83	--
09...	1200	--	29.0	e657	24.0	6.0	80	253	152	8.3	84	--
09...	1400	--	30.5	e656	24.0	5.9	81	252	--	8.1	84	--
09...	1600	--	31.0	e656	24.5	6.3	86	250	--	8.1	83	--
09...	1800	--	31.0	e655	24.5	7.0	96	252	162	8.2	83	--
09...	2000	--	28.5	e655	24.0	7.6	104	--	160	8.2	84	--
09...	2215	--	24.0	657	24.0	8.5	117	258	155	8.2	81	--
10...	0100	--	21.0	658	23.0	8.6	115	238	--	8.3	83	--
10...	0300	--	22.0	658	23.0	9.0	120	243	--	8.4	83	--
10...	0500	--	23.0	662	23.0	8.4	117	243	144	8.4	82	--
10...	0645	--	--	658	23.0	8.4	112	231	--	8.3	80	--
10...	0815	--	26.0	658	23.0	7.8	104	232	--	8.4	82	--
JUN, 1980												
05...	1005	a115	--	654	11.0	8.4	88	--	--	7.8	--	--
05...	1205	--	16.5	653	11.5	8.4	88	122	--	7.8	--	10
05...	1400	--	17.0	656	12.0	--	--	121	--	7.7	--	--
05...	1600	--	19.0	655	12.5	8.2	88	126	--	7.7	--	15
05...	1810	--	18.5	655	12.0	8.2	88	128	--	7.8	--	--
05...	2010	--	11.0	654	12.0	8.3	88	128	--	7.9	--	20
05...	2200	--	9.5	654	--	8.7	--	129	--	7.8	--	--
06...	0010	--	8.0	655	12.0	8.8	95	--	--	7.9	--	20
06...	0215	--	--	655	12.0	8.6	92	--	--	7.8	--	--
06...	0400	--	6.0	655	11.0	8.7	91	137	--	7.7	--	18
06...	0600	--	3.0	655	10.0	8.7	90	142	--	7.8	--	--
06...	0810	--	10.0	656	11.0	8.4	88	131	--	7.8	--	19
06...	1000	--	15.5	655	11.5	8.3	88	129	--	7.7	--	--
06...	1200	--	22.0	655	12.0	8.5	91	128	--	7.8	--	11
AUG, 1980												
13...	1130	a150	30.0	e650	22.0	6.4	85	238	--	7.4	--	--
13...	1400	--	33.5	e650	23.0	--	--	244	--	7.4	--	4.6
13...	1530	--	34.0	e650	23.0	6.8	92	244	--	7.3	--	--
13...	1730	--	33.5	e650	--	6.9	--	246	--	7.4	--	6.0
13...	1900	--	32.0	e650	23.0	6.9	93	248	--	7.3	--	--
13...	2100	--	25.5	e650	22.0	--	--	245	--	7.3	--	5.3
13...	2300	--	25.0	e650	21.5	6.9	92	238	--	7.3	--	--
14...	0100	--	23.0	e650	21.0	6.9	91	240	--	7.4	--	--
14...	0300	--	19.0	e650	21.0	7.0	92	243	--	--	--	--
14...	0530	--	19.0	e650	20.0	7.0	90	249	--	7.2	--	9.6
14...	0645	--	18.0	e650	20.0	7.0	90	244	--	7.2	--	--
14...	0930	--	28.0	e650	21.0	6.8	89	250	--	7.4	--	--
14...	1145	--	29.0	e650	21.0	6.6	87	251	--	7.5	--	--
14...	1330	--	30.0	e650	22.0	6.6	114	251	--	7.5	--	--

a Average streamflow estimated for the synoptic sampling period.

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
06...	0635	.74	.16	.58	.63	.19	.44	1.4	.40	.50
06...	0745	.72	.15	.57	.57	.19	.38	1.3	.36	.44
06...	0955	.52	.08	.44	.46	.14	.32	.98	.28	.35
06...	1330	.56	.09	.47	.53	.19	.34	1.1	.27	.35
06...	1850	.56	.12	.44	.63	.21	.42	1.2	.27	.32
06...	2250	.68	.20	.48	.75	.25	.50	1.4	.33	.42
07...	0545	.80	.03	.77	.89	.02	.87	1.7	.39	.47
07...	0945	.60	.07	.53	.69	.08	.61	1.3	.26	.31
07...	1345	.78	.02	.76	.57	.08	.49	1.4	.27	.31
07...	1745	.44	.01	.43	.53	.02	.51	.97	.27	.32
JUN, 1980										
05...	1205	.41	.12	.29	.25	.02	.23	.66	.11	.11
05...	2010	.53	.17	.36	.23	.03	.20	.76	.08	.11
06...	0010	.63	.15	.48	---	.03	---	---	.11	.14
06...	0400	1.1	.19	.91	.41	.02	.39	1.5	.11	.09
06...	1200	1.2	.15	1.1	.51	.02	.49	1.7	.11	---
AUG, 1980										
13...	1400	1.0	.22	.78	1.3	.23	1.1	2.3	.64	.70
14...	0100	1.1	.13	.97	.91	.11	.80	2.0	.41	.49
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- (MG/L AS N)	NITRO- GEN, NO ₂ SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG, 1979										
09...	1000	.43	.06	.37	1.3	.15	1.2	1.7	.47	.48
09...	1200	.62	.06	.56	1.4	.18	1.2	2.0	.56	.57
09...	1400	.49	.12	.37	1.4	.19	1.2	1.9	.66	.70
09...	1600	.61	.07	.54	1.4	.18	1.2	2.0	.77	.82
09...	1800	.82	.07	.75	1.5	.18	1.3	2.3	.84	.89
09...	2000	.74	.09	.65	1.4	.16	1.2	2.1	.90	.94
09...	2215	.46	.06	.40	1.3	.14	1.2	1.8	.89	.94
10...	0100	.37	.01	.36	1.1	.10	1.0	1.5	.78	.91
10...	0500	.37	.00	.37	.69	.05	.64	1.1	.35	.54
10...	0815	.38	.03	.35	1.1	.10	1.0	1.5	.59	.70
JUN, 1980										
05...	1205	---	.15	---	.27	.02	.25	---	.10	.08
05...	1600	.72	.26	.46	.23	.02	.21	.95	.11	.09
05...	2010	.38	.17	.21	.23	.03	.20	.61	.08	.08
06...	0010	---	---	---	.35	.03	.32	---	.10	.10
06...	0400	.53	---	---	.34	.02	.32	.87	.11	.12
06...	0810	---	.25	---	.23	.02	.21	---	.11	---
06...	1200	.64	.12	.52	.18	.02	.16	.82	.11	.09
AUG, 1980										
13...	1400	.89	.13	.76	1.5	.28	1.2	2.4	.57	.65
13...	1730	1.1	.10	1.0	1.4	---	---	2.5	.58	.60
13...	2100	.55	.09	.46	1.1	.17	.93	1.7	.44	.47
14...	0100	.50	.04	.46	---	.15	---	---	.27	.32
14...	0530	.71	.11	.60	1.3	.20	1.1	2.0	.36	.40
14...	0930	.92	.15	.77	1.6	.29	1.3	2.5	.57	.60
14...	1330	.82	.14	.68	1.6	.31	1.3	2.4	.78	.79

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 69 - TRUCKEE CANAL AT US 95A NEAR FERNLEY--Continued

CARBONACEOUS BOD												
DATE	TIME	CARBONACEOUS BOD						TOTAL BOD			NITROGENOUS BOD	
		LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
06...	0635	.72	2.1	4.0	4.3	.13	.06	--	--	6.4	.31	2.1
06...	0745	.52	1.8	3.4	3.6	.13	.06	--	--	10	3.8	6.4
06...	0955	--	1.6	3.3	3.7	.12	.05	--	--	--	--	--
06...	1145	--	1.3	2.5	2.7	.13	.06	--	--	5.7	--	3.0
06...	1330	--	1.5	3.2	3.5	.11	.05	--	--	5.8	--	2.3
06...	1540	--	1.1	2.3	2.6	.12	.05	--	--	4.6	5.2	2.0
06...	1850	--	1.3	3.0	3.7	.08	.03	--	--	6.3	2.3	2.6
06...	2025	.05	1.2	3.1	4.0	.07	.03	--	--	5.2	6.6	1.2
06...	2250	.41	1.1	2.8	3.8	.07	.03	--	--	9.5	2.1	5.7
07...	0545	1.0	1.6	3.2	3.4	.12	.05	--	--	5.0	2.3	1.6
07...	0745	--	1.1	2.7	3.4	.08	.03	--	--	5.7	--	2.3
07...	0945	.96	.9	2.4	3.5	.06	.03	--	--	5.4	2.0	1.9
07...	1145	1.4	1.9	3.3	3.5	.16	.07	--	--	5.3	4.5	1.8
07...	1545	1.8	1.5	2.6	2.7	.16	.07	--	--	6.8	3.6	4.1
07...	1945	1.7	1.4	2.7	2.8	.14	.06	--	--	3.8	1.8	1.0
AUG, 1979												
09...	1200	.07	2.5	4.5	4.8	.15	.06	--	--	--	--	--
09...	1600	--	1.9	4.2	4.9	.10	.04	--	--	--	--	--
09...	2000	--	1.5	3.3	4.0	.09	.04	--	--	--	--	--
09...	2215	.11	2.0	3.8	4.1	.13	.06	--	--	--	--	--
10...	0100	--	1.8	3.6	4.0	.11	.05	--	--	--	--	--
10...	0815	--	1.8	4.1	4.9	.09	.04	--	--	--	--	--
JUN, 1980												
05...	1205	--	.7	1.9	3.0	.06	.03	--	--	--	--	--
05...	1600	--	1.3	2.7	3.0	.12	.05	--	--	--	--	--
05...	2010	--	1.0	2.1	2.5	.10	.04	--	--	--	--	--
06...	0010	.38	.9	1.9	2.1	.12	.05	--	--	--	--	--
06...	0400	.36	1.1	2.8	3.9	.06	.03	--	--	--	--	--
06...	0810	--	.8	1.9	2.4	.08	.03	--	--	--	--	--
06...	1200	--	.8	1.9	2.4	.08	.03	--	--	--	--	--
AUG, 1980												
13...	1400	--	2.2	4.7	5.4	.10	.04	--	--	--	--	--
13...	1730	--	2.1	4.7	5.4	.10	.04	--	--	--	--	--
13...	2100	--	1.5	3.1	3.9	.10	.04	--	--	--	--	--
14...	0100	.23	1.5	3.1	3.6	.10	.04	--	--	--	--	--
14...	0530	.15	1.6	3.2	3.5	.12	.05	--	--	--	--	--
14...	0930	.60	1.7	3.3	3.6	.14	.06	--	--	--	--	--
14...	1330	.32	2.0	4.4	5.0	.10	.04	--	--	--	--	--

							PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
DATE	TIME	CHLORO- PHYLL a, SUS- PENDE (UG/L)	CHLORO- PHYLL b, SUS- PENDE (UG/L)	BIOMASS / CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)		
AUG, 1979								
09...	1000	1.23	.163	10570	365	352	--	--
09...	1200	.638	.036	26650	370	353	--	--
09...	1400	.656	<.181	18290	358	346	--	--
09...	1600	.525	<.181	20950	356	345	--	--
09...	1800	2.31	.226	--	--	--	--	--
09...	2000	1.72	.226	4651	457	449	--	--
09...	2215	3.99	.411	3008	455	443	--	--
10...	0100	1.92	.212	4688	430	421	--	--
10...	0500	--	--	--	--	--	--	20
10...	0815	3.79	.517	2639	428	418	--	--
JUN, 1980								
05...	1205	--	--	--	491	486	377	13
06...	0010	.791	.104	5057	294	290	348	12
AUG, 1980								
13...	1400	.987	.375	5066	658	653	3615	43
13...	1730	--	--	--	--	--	3223	--
13...	2100	--	--	--	--	--	2772	--
14...	0100	.352	<.201	22730	674	666	2819	33
14...	0530	--	--	--	--	--	2449	--
14...	0930	--	--	--	--	--	2449	--
14...	1330	--	--	--	--	--	3583	--

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

SITE 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH FIELD (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1980												
05...	1005	a100	21.0	654	12.0	8.8	95	126	---	7.6	---	---
05...	1230	---	19.5	653	13.0	8.8	97	132	---	7.6	---	15
05...	1450	---	18.5	652	14.0	9.0	102	134	---	7.6	---	---
05...	1645	---	21.5	652	14.0	9.0	102	134	---	7.6	---	14
05...	1900	---	17.5	652	14.0	9.1	103	129	---	7.7	---	---
05...	2125	---	11.0	652	13.0	9.1	101	126	---	7.8	---	---
05...	2400	---	9.5	652	13.0	9.1	101	124	---	7.8	---	---
06...	0215	---	9.0	653	12.5	9.1	100	125	---	7.6	---	17
06...	0450	---	6.0	653	12.0	8.9	97	126	---	7.8	---	---
06...	0740	---	11.0	654	11.5	8.8	94	126	---	7.6	---	---
06...	1005	---	20.0	654	12.0	8.8	95	130	---	7.6	---	16
AUG, 1980												
13...	1130	a70	29.0	654	23.0	7.9	107	233	---	---	---	---
13...	1330	---	30.5	653	24.0	8.5	118	231	---	---	---	4.9
13...	1530	---	31.5	653	24.0	9.4	131	225	---	8.1	---	---
13...	1715	---	31.0	652	23.5	9.6	132	228	---	8.4	---	7.5
13...	1830	---	29.5	652	23.0	9.7	131	232	---	8.6	---	---
13...	2115	---	24.0	652	22.5	9.8	132	236	---	8.4	---	---
13...	2315	---	22.5	653	22.0	9.4	125	232	---	7.8	---	---
14...	0115	---	20.0	653	21.5	9.0	117	240	---	8.0	---	---
14...	0300	---	19.0	652	21.5	8.5	113	240	---	8.0	---	---
14...	0500	---	18.0	652	21.0	8.2	108	234	---	8.0	---	---
14...	0649	---	18.5	652	21.0	7.8	103	229	---	8.0	---	---
14...	0915	---	22.5	652	21.0	8.0	105	236	---	8.2	---	---
14...	1030	---	26.0	652	21.5	8.3	111	242	---	8.4	---	---
14...	1230	---	27.5	652	22.0	9.2	123	240	---	8.6	---	8.5

^a Average streamflow estimated for the synoptic sampling period.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

SITE 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1980										
05...	1230	.37	.15	.22	--	.02	--	--	.08	--
05...	2125	.45	.12	.33	--	.03	--	--	.13	.12
06...	1005	.77	.18	.59	--	.02	--	--	.09	.16
AUG, 1980										
13...	1330	.69	.13	.56	--	--	--	--	.45	.53
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JUN, 1980										
05...	1230	--	--	--	.32	.01	.31	--	--	.09
05...	1645	.52	.25	.27	.40	.02	.38	.92	.11	.08
05...	2125	--	.13	--	.35	.03	.32	--	.10	.08
06...	0215	.42	.20	.22	.22	.02	.20	.64	.12	.09
06...	1005	.77	.17	.60	.33	.02	.31	1.1	.09	.10
AUG, 1980										
13...	1330	.55	.02	.53	1.3	.20	1.1	1.9	.39	.54
13...	1715	1.0	.02	.98	--	.05	--	--	--	--
14...	0115	.85	.00	.85	1.3	.17	1.1	2.2	.33	.39
14...	0500	.54	.05	.49	1.4	.20	1.2	1.9	.36	.39
14...	0915	.64	.07	.57	1.5	.24	1.3	2.1	.43	.46
14...	1230	.57	.03	.54	1.5	.26	1.2	2.1	.53	.56

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1980												
05...	1230	--	.8	1.7	2.1	.08	.03	--	--	--	--	--
05...	1645	--	1.0	2.3	2.7	.10	.04	--	--	--	--	--
05...	2125	--	.7	1.5	1.8	.12	.05	--	--	--	--	--
06...	0215	.49	.9	1.6	1.9	.12	.05	--	--	--	--	--
06...	0740	.68	.9	1.8	2.0	.12	.05	--	--	--	--	--
06...	1005	.39	.8	1.9	2.3	.09	.04	--	--	--	--	--
AUG, 1980												
13...	1330	--	2.8	5.2	5.4	.14	.06	--	--	--	--	--
13...	1715	--	2.4	4.3	4.6	.16	.07	--	--	--	--	--
13...	2115	--	2.7	4.7	4.9	.16	.07	--	--	--	--	--
14...	0115	.11	2.6	4.8	5.1	.14	.06	--	--	--	--	--
14...	0500	.50	2.0	3.8	4.1	.14	.06	--	--	--	--	--
14...	0915	.38	2.1	3.9	4.1	.14	.06	--	--	--	--	--
14...	1230	--	2.9	5.3	5.6	.14	.06	--	--	--	--	--

DATE	TIME	CHLORO- PHYLL α , SUS- PENDEDED (UG/L)	CHLORO- PHYLL β , SUS- PENDEDED (UG/L)	BIOMASS/ CHLORO- PHYLL RATIO (UNITS)	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
JUN, 1980								
05...	1230	--	--	--	--	--	582	--
AUG, 1980								
13...	1330	3.35	1.38	3881	666	653	6401	34
13...	1715	--	--	--	--	--	9652	--
13...	2115	--	--	--	--	--	8998	--
14...	0115	.794	.362	13850	658	647	11114	29
14...	0500	--	--	--	--	--	7369	--
14...	0915	--	--	--	--	--	7799	--
14...	1230	--	--	--	--	--	11317	--

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	TEMPER- ATURE, AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	PH (UNITS)	ALKA- LITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)
JUN, 1979												
07...	0650	a290	13.0	655	17.5	7.2	87	176	—	8.0	—	—
07...	0800	—	13.0	655	17.5	7.4	88	159	—	—	—	—
07...	0940	—	14.0	655	18.0	7.5	91	160	—	8.2	—	—
07...	1136	—	16.0	655	19.0	7.8	98	165	—	8.1	—	—
07...	1335	—	18.5	655	19.0	7.9	99	166	—	8.1	—	—
07...	1536	—	19.0	655	20.0	8.1	104	164	—	8.2	—	—
07...	1740	—	19.5	655	20.5	8.1	104	166	—	8.1	—	—
07...	1934	—	17.0	655	20.0	7.9	100	164	—	8.3	—	—
07...	2028	—	15.0	655	20.0	7.8	100	158	—	8.3	—	—
08...	0550	—	6.0	655	17.0	7.5	89	157	—	8.2	51	—
08...	0732	—	10.5	655	17.0	7.5	89	159	—	8.1	—	—
08...	0935	—	15.0	655	17.0	7.8	91	158	—	8.1	54	—
08...	1137	—	19.0	655	18.0	8.1	99	175	—	8.0	—	—
08...	1345	—	24.5	655	19.0	8.0	100	175	—	8.1	50	—
08...	1532	—	24.0	655	19.5	—	—	175	—	8.1	—	—
08...	1728	—	21.5	655	20.0	—	—	170	—	8.2	50	—
08...	1927	—	20.5	655	19.5	8.0	101	168	—	8.2	—	—
08...	2023	—	19.0	655	19.5	8.0	100	170	—	8.3	—	—
AUG, 1979												
09...	2035	a50	25.0	e657	24.5	10.1	140	238	—	9.3	—	—
09...	2225	—	23.0	e656	24.0	9.0	125	237	—	9.0	—	—
10...	0040	—	22.0	e657	23.5	8.8	122	234	—	9.2	87	—
10...	0320	—	24.0	e656	22.0	8.2	109	237	—	8.9	—	—
10...	0435	—	24.5	e658	22.0	7.7	103	239	155	8.9	86	—
10...	0620	—	22.0	e657	21.5	7.5	100	243	—	8.8	—	—
10...	0805	—	26.0	e658	21.0	8.7	114	261	—	8.9	92	—
10...	1000	—	31.0	e660	23.0	9.1	121	252	—	8.9	—	—
10...	1200	—	35.0	e660	24.5	10.8	148	252	—	8.9	—	—
10...	1400	—	38.0	e660	26.0	13.1	184	255	—	8.9	—	—
10...	1600	—	36.0	e660	28.0	14.1	207	245	—	9.1	—	—
10...	1800	—	37.0	e660	25.0	14.0	197	252	—	9.1	—	—
10...	2020	—	—	e660	24.5	—	—	253	—	9.3	—	—
JUN, 1980												
05...	1125	a90	18.5	653	13.5	9.8	110	136	—	8.3	—	—
05...	1345	—	20.0	652	14.0	10.0	114	137	—	8.2	—	17
05...	1550	—	22.0	652	15.0	10.2	119	136	—	8.2	—	—
05...	1755	—	19.0	653	15.0	10.2	119	136	—	8.4	—	15
05...	2005	—	16.0	652	14.0	9.5	108	130	—	8.4	—	—
05...	2240	—	11.5	653	13.5	9.3	104	125	—	8.1	—	14
06...	0105	—	10.0	653	13.0	9.2	102	126	—	8.4	—	—
06...	0335	—	9.5	653	12.5	—	—	126	—	8.4	—	—
06...	0620	—	9.0	654	12.0	9.2	99	126	—	8.4	—	—
06...	0850	—	17.0	654	13.0	9.7	107	125	—	8.4	—	—
06...	1200	—	23.0	655	15.0	10.2	117	132	—	8.5	—	—
AUG, 1980												
11...	1030	—	—	—	22.5	7.9	—	230	135	8.6	79	—
13...	1015	a20	27.0	653	18.5	8.5	105	220	—	8.4	—	—
13...	1230	—	35.0	654	23.0	11.2	151	214	—	—	—	3.2
13...	1430	—	—	653	25.0	13.0	183	210	—	—	—	—
13...	1630	—	35.5	653	26.0	14.2	203	218	—	9.0	—	4.5
13...	1800	—	33.0	652	26.0	14.2	206	220	—	9.2	—	—
13...	2030	—	25.0	652	23.0	10.5	142	226	—	9.2	—	4.6
13...	2215	—	23.5	652	21.0	8.8	116	222	—	8.1	—	—
13...	2400	—	19.5	653	20.0	—	—	220	—	8.2	—	3.9
14...	0215	—	—	653	20.0	8.4	108	218	—	8.5	—	—
14...	0400	—	19.5	652	19.5	8.2	104	212	—	8.4	—	5.1
14...	0600	—	17.5	652	19.0	7.8	98	218	—	8.2	—	—
14...	0815	—	20.5	652	19.0	7.8	98	212	—	8.5	—	—
14...	1000	—	24.5	652	20.0	9.2	118	212	—	9.0	—	—
14...	1130	—	27.5	652	21.5	10.9	143	220	—	9.0	—	4.9

a Average streamflow estimated for the synoptic sampling period.

e Estimated.

TABLE 4.--Data from synoptic studies, June and August, 1979 and 1980--Continued

Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN, 1979										
07...	1335	.47	.04	.43	.70	.14	.56	1.2	.27	.32
07...	1740	.58	.04	.54	.83	.16	.67	1.4	.33	.41
07...	2028	.66	.05	.61	.86	.16	.70	1.5	.38	.43
08...	0550	.55	.02	.53	.48	.06	.42	1.0	.24	.30
08...	0935	.60	.02	.58	.58	.08	.50	1.2	.25	.30
08...	1345	.60	.03	.57	.63	.12	.51	1.2	.25	.30
08...	1728	.58	.05	.53	.76	.18	.58	1.3	.30	.35
08...	2023	.63	.05	.58	.80	.14	.66	1.4	.35	.40
AUG, 1979										
10...	2020	.67	.01	.66	--	--	--	--	.66	.72
JUN, 1980										
05...	1345	.76	--	--	--	.02	--	--	.08	.12
05...	2240	--	--	--	.20	.02	.18	--	.13	.14
06...	1200	--	.09	--	--	.01	--	--	.08	.16
AUG, 1980										
11...	1030	.99	.02	.97	--	--	--	--	--	.37
13...	1230	1.5	.09	1.4	.48	.03	.45	2.0	.22	.29
DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, NH ₄ DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
AUG, 1979										
09...	2035	.39	.01	.38	.83	.07	.76	1.2	.56	--
10...	0040	.34	.00	.34	.73	.05	.68	1.1	.54	.63
10...	0435	.96	.01	.95	1.0	.09	.91	2.0	.59	.68
10...	0805	.40	.00	.40	.93	.12	.81	1.3	.48	.56
10...	1200	.79	.00	.79	.96	.23	.73	1.8	.68	.81
10...	1600	.48	.00	.48	.90	.18	.72	1.4	.75	.86
10...	2020	.64	.00	.64	.81	.11	.70	1.5	.68	.76
JUN, 1980										
05...	1345	.30	.04	.26	.36	.03	.33	.66	.10	.08
05...	1755	.46	.10	.36	.28	.02	.26	.74	.10	.08
05...	2240	.43	.04	.39	--	.02	--	--	.12	.10
06...	0335	.40	.12	.28	.29	.00	.29	.69	.15	.14
06...	1200	.51	.10	.41	.36	.01	.35	.87	.10	.08
AUG, 1980										
11...	1030	.79	.04	.75	.81	.08	.73	1.6	.24	.33
13...	1230	.56	.04	.52	.48	.04	.44	1.0	.18	.24
13...	1630	.56	.05	.51	.58	.05	.53	1.1	.24	.26
13...	2030	.62	.03	.59	.79	.07	.72	1.4	.32	.39
13...	2400	.76	.00	.76	.89	.09	.80	1.7	.27	.33
14...	0400	.80	.06	.74	1.0	.11	.89	1.8	.25	.29
14...	0815	.63	.03	.60	1.2	.13	1.1	1.8	.32	.35
14...	1130	.41	.03	.38	1.1	.12	.98	1.5	.34	.39

TABLE 4.—Data from synoptic studies, June and August, 1979 and 1980—Continued

Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR—Continued

CARBONACEOUS BOD												
DATE	TIME	LAGTIME AT 20°C (DAYS)	5-DAY (MG/L)	20-DAY (MG/L)	ULTI- MATE (MG/L)	DECAY RATE, BASE E, PER DAY AT 20°C	DECAY RATE, BASE 10, PER DAY AT 20°C	TOTAL BOD			NITROGENOUS BOD	
								5 DAY (MG/L)	20 DAY (MG/L)	ULTI- MATE (MG/L)	LAGTIME AT 20°C (DAYS)	ULTI- MATE (MG/L)
JUN, 1979												
07...	0650	.85	1.5	3.5	4.3	.09	.04	—	—	7.5	—	3.2
07...	0940	1.6	2.1	3.6	3.8	.17	.07	—	—	3.7	—	—
07...	1335	1.7	2.0	3.2	3.2	.20	.09	—	—	6.2	.51	3.0
07...	1740	.28	1.9	3.5	3.8	.14	.06	—	—	6.6	—	2.8
07...	2028	1.6	1.9	3.4	3.6	.16	.07	—	—	5.0	1.7	1.4
08...	0550	—	2.8	5.1	5.4	.15	.06	—	—	4.5	—	—
08...	0935	—	2.2	4.0	4.2	.15	.06	—	—	5.8	—	1.6
08...	1345	—	2.8	4.9	5.1	.15	.06	—	—	—	—	—
08...	1728	—	1.8	3.5	3.7	.13	.06	—	—	6.1	—	2.4
08...	2023	—	1.9	3.4	3.6	.15	.06	—	—	—	—	—
AUG, 1979												
09...	2035	—	2.7	5.4	5.9	.12	.05	—	—	—	—	—
10...	0435	—	1.7	3.9	4.6	.09	.04	—	—	—	—	—
10...	0805	—	2.4	5.3	6.1	.10	.04	—	—	—	—	—
10...	1200	—	3.5	6.3	6.6	.15	.06	—	—	—	—	—
10...	2020	—	3.2	6.6	7.3	.12	.05	—	—	—	—	—
JUN, 1980												
05...	1345	—	.8	1.8	2.1	.10	.04	1.3	2.7	2.9	—	—
05...	1755	.73	1.1	2.1	2.2	.15	.06	.9	2.2	2.7	—	—
05...	2240	—	1.2	2.4	2.6	.12	.05	1.1	2.4	2.8	—	—
06...	0335	.50	.9	1.9	2.1	.11	.05	1.1	2.5	3.1	—	—
06...	0850	—	1.1	2.2	2.4	.12	.05	.8	2.0	2.4	—	—
06...	1200	.04	1.1	2.2	2.4	.12	.05	1.2	2.4	2.6	—	—
AUG, 1980												
13...	1230	—	2.1	3.9	4.2	.14	.06	—	—	4.6	—	.4
13...	1630	—	1.8	3.4	3.6	.14	.06	—	—	5.2	—	1.6
13...	2030	—	2.1	3.7	3.8	.16	.07	—	—	5.1	—	1.3
13...	2400	—	2.1	3.4	3.5	.19	.08	—	—	4.6	.06	1.1
14...	0400	—	1.9	3.4	3.6	.16	.07	—	—	4.8	—	1.2
14...	0815	.20	2.5	4.1	4.2	.18	.08	—	—	5.1	.19	.9
14...	1130	.06	2.5	4.2	4.4	.17	.07	—	—	4.8	—	.4
DATE	TIME	CHLORO- PHYLL <i>a</i> , SUS- PENDE		CHLORO- PHYLL <i>b</i> , SUS- PENDE		BIOMASS/ CHLORO- PHYLL RATIO	SESTON DRY WEIGHT (MG/L)	SESTON ASH WEIGHT (MG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)		
		(UG/L)	(UG/L)	(UG/L)	(UG/L)							
AUG, 1979												
09...	2035	9.98	1.90	1603	449	433	—	—	—	—	—	
10...	0040	10.1	1.65	1089	427	416	17453	—	—	—	—	
10...	0435	16.0	2.28	563	450	441	12528	23	—	—	—	
10...	0805	11.4	1.55	1053	429	417	12389	—	—	—	—	
10...	1200	21.3	2.90	610	421	408	10287	—	—	—	—	
10...	1600	38.9	5.69	334	431	418	11759	36	—	—	—	
10...	2020	16.2	2.69	802	446	433	7900	—	—	—	—	
JUN, 1980												
05...	1345	1.71	.149	1754	289	286	1441	11	—	—	—	
06...	0335	.510	.087	9804	259	254	1006	10	—	—	—	
AUG, 1980												
11...	1030	1.05	.151	2857	—	—	—	14	—	—	—	
13...	1230	2.83	.466	2120	630	624	2338	16	—	—	—	
13...	1630	—	—	—	—	—	3871	—	—	—	—	
13...	2030	—	—	—	—	—	5391	—	—	—	—	
13...	2400	.159	—	69180	657	646	2846	25	—	—	—	
14...	0400	—	—	—	—	—	3964	—	—	—	—	
14...	0815	—	—	—	—	—	3912	—	—	—	—	
14...	1130	—	—	—	—	—	5312	—	—	—	—	

TABLE 5.--Phytoplankton taxa and cell counts, May 1979

[Phytoplankton cells per milliliter]

Taxa	May 9, 1979 (1030 hr)	Taxa	May 9, 1979 (0930 hr)
Site 11 - TRUCKEE RIVER AT FARAD		Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS	
CHLOROPHYTA (green algae)		CHLOROPHYTA (green algae)	
Chlorophyceae		Chlorophyceae	
<i>Actinastrum gracilimum</i>	1	<i>Actinastrum gracilimum</i>	2
<i>Arkistrodesmus falcatus</i>	7	<i>Arkistrodesmus falcatus</i>	15
Chlorophyta flagellate	9	Chlorophyta flagellate	10
<i>Closterium</i> sp.	1	<i>Coelastrum microsporum</i>	2
<i>Coelastrum microsporum</i>	2	<i>Elakathothrix gelatinosa</i>	2
<i>Cosmarium</i> sp.	1	<i>Golenkinia radiata</i>	2
<i>Golenkinia radiata</i>	6	<i>Scenedesmus bijuga</i>	3
<i>Pediastrum Boryanum</i>	1	<i>S. opoliensis</i>	1
<i>Scenedesmus bijuga</i>	4	<i>Tetrastrum staurogeniaeforme</i>	1
<i>S. opoliensis</i>	4		
<i>Schroederia setigera</i>	2	CHRYSTOPHYTA	
<i>Staurastrum seabaldi</i>	1	Bacillariophyceae (diatoms)	
CHRYSTOPHYTA		<i>Achnanthes lanceolata</i>	7
Bacillariophyceae (diatoms)		<i>A. minutissima</i>	1
<i>Achnanthes lanceolata</i>	6	<i>Cyclotella ocellata</i>	2
<i>A. minutissima</i>	8	<i>Cymbella sinuata</i>	3
<i>Asterionella formosa</i>	40	<i>Diatoma vulgare</i>	5
<i>Cocconeis placentula</i>	2	<i>Fragilaria construens</i>	88
<i>Cyclotella bodanica</i>	2	<i>F. vaucheriae</i>	45
<i>C. ocellata</i>	2	<i>Melosira varians</i>	2
<i>Cymatopleura solea</i>	1	<i>Navicula capitata</i>	1
<i>Cymbella cistula</i>	7	<i>N. salinarium</i>	25
<i>C. minuta</i>	26	<i>N. viridula</i>	7
<i>Diatoma hiemale</i>	5	<i>Nitzschia acicularis</i>	69
<i>D. vulgare</i>	10	<i>N. amphibia</i>	8
<i>Epithemia</i> sp.	2	<i>N. dissipata</i>	9
<i>Fragilaria construens</i>	18	<i>N. linearis</i>	2
<i>F. crotonensis</i>	3	<i>N. ovalis</i>	1
<i>F. vaucheriae</i>	46	<i>N. stagnorum</i>	36
<i>Gomphonema herculeana</i>	12	<i>Rhoicosphenia curvata</i>	3
<i>Hantzschia arcus</i>	2	<i>Rhopalodia</i> sp.	1
<i>Melosira granulata</i>	62	<i>Surirella ovata</i>	4
<i>M. varians</i>	15	<i>Synedra minuscula</i>	13
<i>Meridion circulare</i>	2	<i>S. ulna</i>	6
<i>Navicula exigua</i>	3	Chrysophyceae	
<i>N. radiosa</i>	9	Chrysophyta cyst	3
<i>N. salinarium</i>	8	CRYPTOPHYTA (cryptomonads)	
<i>Nitzschia amphibia</i>	5	Cryptophyceae	
<i>N. dissipata</i>	2	<i>Cryptomonas</i> sp.	7
<i>N. linearis</i>	8	CYANOPHYTA (blue-green algae)	
<i>N. palea</i>	5	Myxophyceae	
<i>Rhoicosphenia curvata</i>	1	<i>Anabaena</i> sp.	2
<i>Synedra cyclopus</i>	1	<i>Dactylococcopsis Smithii</i>	4
<i>S. ulna</i>	8	EUGLENOPHYTA (euglenoids)	
<i>Tabellaria fenestrata</i>	16	<i>Euglena</i> sp.	14
Chrysophyceae		Miscellaneous flagellates	41
Chrysophyta cyst	4		
<i>Dinobryon sertularia</i>	3		
<i>Synura uvella</i>	1		
CRYPTOPHYTA (cryptomonads)			
Cryptophyceae			
<i>Cryptomonas</i> sp.	5		
EUGLENOPHYTA (euglenoids)			
<i>Euglena</i> sp.	8		
<i>Phacus</i> sp.	5		
PYRRHOPHYTA (fire algae)			
Dinophyceae			
<i>Peridinium</i> sp.	3		
Miscellaneous flagellates	77		
		TOTAL	447
TOTAL	482		

TABLE 5.--Phytoplankton taxa and cell counts, May 1979--Continued

[Phytoplankton cells per milliliter]

Taxa	May 9, 1979 (1345 hr)	May 16, 1979 (1230 hr)	Taxa	May 10, 1979 (1030 hr)
Site 22 - TRUCKEE RIVER AT VISTA			Site 37 - TRUCKEE RIVER BELOW DERBY DAM	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Actinastrum gracilimum</i>	1	--	<i>Arkiastrodesmus falcatus</i>	4
<i>Dictyosphaerium</i> sp.	--	1	<i>Coelastrum microsporum</i>	1
<i>Pediastrum Boryanum</i>	1	--	<i>Scenedesmus bifugus</i>	2
<i>Scenedesmus opoliensis</i>	8	8	<i>S. dimorphus</i>	2
<i>Schroederia setigera</i>	1	2	<i>S. opoliensis</i>	4
<i>Spondylium planum</i>	--	3	<i>Schroederia setigera</i>	3
<i>Tetradron minimum</i>	1	1	<i>Tetradron minimum</i>	1
CHRYSOPHYTA			CHRYSOPHYTA	
Bacillariophyceae (diatoms)			Bacillariophyceae (diatoms)	
<i>Achnanthes lanceolata</i>	1	8	<i>Achnanthes lanceolata</i>	1
<i>A. minutissima</i>	2	9	<i>A. minutissima</i>	2
<i>Asterionella formosa</i>	6	72	<i>Asterionella formosa</i>	10
<i>Cocconeis placentula</i>	1	2	<i>Cocconeis placentula</i>	3
<i>Cyclotella ocellata</i>	1	10	<i>Cymbella cistula</i>	4
<i>Cymbella cistula</i>	--	24	<i>C. mexicana</i>	1
<i>C. mexicana</i>	1	--	<i>C. minuta</i>	17
<i>C. minuta</i>	5	--	<i>C. sinuata</i>	1
<i>C. sinuata</i>	1	8	<i>Diatoma vulgare</i>	10
<i>Diatoma vulgare</i>	5	18	<i>Epithemia</i> sp.	1
<i>Epithemia turgida</i>	--	2	<i>Fragilaria construens</i>	122
<i>Fragilaria construens</i>	42	54	<i>F. crotonensis</i>	4
<i>F. crotonensis</i>	11	--	<i>F. vaucheriae</i>	86
<i>F. vaucheriae</i>	27	8	<i>Gomphonema herculeana</i>	2
<i>Gomphonema herculeana</i>	--	2	<i>Melosira distans</i>	9
<i>Gomphonema parvulum</i>	--	3	<i>N. granulata</i>	13
<i>Gyrosigma</i> sp.	1	--	<i>N. granulata</i>	7
<i>Hantzschia arcus</i>	--	5	<i>N. varians</i>	2
<i>Melosira granulata</i>	5	--	<i>N. mutica</i>	2
<i>M. italica</i>	--	8	<i>N. salinarum</i>	17
<i>M. varians</i>	1	13	<i>N. viridula</i>	26
<i>Meridion circulare</i>	1	2	<i>Nitzschia acicularis</i>	11
<i>Navioula exigua</i>	6	3	<i>N. amphibia</i>	9
<i>N. viridula</i>	11	20	<i>N. dissipata</i>	6
<i>Nitzschia acicularis</i>	5	5	<i>N. filiformis</i>	3
<i>N. amphibia</i>	4	6	<i>N. ovalis</i>	2
<i>N. dissipata</i>	2	7	<i>N. palea</i>	7
<i>N. linearis</i>	2	4	<i>N. stagnorum</i>	17
<i>N. palea</i>	2	11	<i>Pinnularia borealis</i>	2
<i>N. stagnorum</i>	5	--	<i>P. sp.</i>	1
<i>Rhizosolenia curvata</i>	1	5	<i>Rhizosolenia curvata</i>	6
<i>Stephanodiscus</i> sp.	2	6	<i>Stephanodiscus</i> sp.	4
<i>Surirella ovata</i>	--	9	<i>Surirella ovata</i>	1
<i>Synedra amphiocephala</i>	2	--	<i>Synedra ulna</i>	8
<i>S. gattonii</i>	1	--	<i>S. sp.</i>	2
<i>S. ulna</i>	--	11	<i>Tabellaria fenestrata</i>	3
<i>S. sp.</i>	3	--	CRYPTOPHYTA (cryptomonads)	
<i>Tabellaria fenestrata</i>	2	16	Cryptophyceae	
Chrysophyceae			<i>Cryptomonas</i> sp.	1
Chrysophyta cyst	1	--	CYANOPHYTA (blue-green algae)	
CRYPTOPHYTA (cryptomonads)			Myxophyceae	
Cryptophyceae			<i>Dactylococcopsis Smithii</i>	2
<i>Cryptomonas</i> sp.	1	2	Miscellaneous flagellates	15
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Dactylococcopsis Smithii</i>	1	--		
<i>Merismopedia tenuissima</i>	1	--		
EUGLENOPHYTA (euglenoids)				
<i>Phacus</i> sp.	1	--		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Peridinium</i> sp.	1	--		
Miscellaneous flagellates	14	15		
TOTAL	191	383	TOTAL	457

TABLE 5.—Phytoplankton taxa and cell counts, May 1979—Continued

[Phytoplankton cells per milliliter]

Taxa	May 10, 1979 (1330 hr)	May 17, 1979 (1045 hr)	Taxa	May 17, 1979 (1500 hr)
Site 44 - TRUCKEE RIVER AT OLD US 40 BRIDGE AT WADSWORTH			Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Actinastrum gracilimum</i>	—	4	<i>Actinastrum gracilimum</i>	2
<i>Arkiastrodesmus falcatus</i>	8	4	<i>Arkiastrodesmus falcatus</i>	14
<i>Chlorophyta flagellate</i>	8	—	<i>Chlorophyta flagellate</i>	33
<i>Scenedesmus opoliensis</i>	—	16	<i>Golenkinia radiata</i>	2
<i>Tetradron minimum</i>	4	—	<i>Scenedesmus bijuga</i>	16
<i>Tetrastrum staurogeniaeforme</i>	—	4	<i>S. opoliensis</i>	8
CHRYSOPHYTA			<i>Schroederia setigera</i>	4
Bacillariophyceae (diatoms)			CHRYSOPHYTA	
<i>Achnanthes lanceolata</i>	8	—	Bacillariophyceae (diatoms)	
<i>A. minutissima</i>	4	7	<i>Achnanthes lanceolata</i>	16
<i>Asterionella formosa</i>	—	83	<i>A. minutissima</i>	6
<i>Cocconeis placentula</i>	4	—	<i>Asterionella formosa</i>	67
<i>Cyclotella ocellata</i>	4	14	<i>Cocconeis placentula</i>	4
<i>Cymatopleura solea</i>	4	4	<i>Cyclotella ocellata</i>	10
<i>Cymbella mexicana</i>	—	7	<i>Cymbella mexicana</i>	2
<i>C. minuta</i>	12	14	<i>C. minuta</i>	20
<i>Diatoma vulgare</i>	31	18	<i>Diatoma elongatum</i>	2
<i>Epithemia</i> sp.	—	7	<i>D. vulgare</i>	59
<i>Fragilaria construens</i>	1970	617	<i>Epithemia soraez</i>	2
<i>F. crotonensis</i>	—	36	<i>Fragilaria construens</i>	451
<i>F. vaucheriae</i>	967	530	<i>F. crotonensis</i>	30
<i>Gomphonema herculeana</i>	4	4	<i>Gomphonema herculeana</i>	2
<i>Gomphonema olivaceum</i>	—	4	<i>Gomphonema parvulum</i>	2
<i>Melosira granulata</i>	27	32	<i>Harmonia arcus</i>	2
<i>M. varians</i>	8	50	<i>Melosira granulata</i>	20
<i>Navicula decussis</i>	—	25	<i>M. varians</i>	12
<i>N. salinarum</i>	43	—	<i>Navicula cuspidata</i>	8
<i>N. secunda</i>	—	4	<i>N. decussis</i>	35
<i>N. viridula</i>	15	54	<i>N. inflexa</i>	22
<i>Nitzschia amphibia</i>	8	—	<i>N. placentula</i>	18
<i>N. acicularis</i>	8	7	<i>N. pupula</i>	4
<i>N. clausii</i>	12	—	<i>Nitzschia acicularis</i>	18
<i>N. dissipata</i>	4	4	<i>N. dissipata</i>	2
<i>N. palea</i>	12	18	<i>N. filiformis</i>	6
<i>N. stagnorum</i>	—	14	<i>N. gracilis</i>	12
<i>Rhoicosphenia curvata</i>	8	4	<i>N. palea</i>	22
<i>Rhopalodia</i> sp.	4	—	<i>Pinularia</i> sp.	4
<i>Stephanodiscus</i> sp.	—	7	<i>Rhoicosphenia curvata</i>	14
<i>Surirella ovata</i>	12	—	<i>Stephanodiscus</i> sp.	2
<i>Synedra ulna</i>	4	14	<i>Surirella ovalis</i>	2
<i>Tabellaria fenestrata</i>	4	4	<i>S. ovata</i>	4
CRYPTOPHYTA (cryptomonads)			<i>Synedra ulna</i>	12
Cryptophyceae			<i>Tabellaria fenestrata</i>	8
<i>Cryptomonas</i> sp.	—	7	Chrysophyceae	
CYANOPHYTA (blue-green algae)			Chrysophyta cyst	4
Myxophyceae			CRYPTOPHYTA (cryptomonads)	
<i>Merismopedia tenuissima</i>	4	—	Cryptophyceae	
Miscellaneous flagellates	—	36	<i>Cryptomonas</i> sp.	4
			CYANOPHYTA (blue-green algae)	
			Myxophyceae	
			<i>Merismopedia tenuissima</i>	2
			Miscellaneous flagellates	12
TOTAL	3201	1653	TOTAL	1001

[Phytoplankton cells per milliliter]

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TABLE 6.—Phytoplankton taxa and cell counts, August 1979

[Phytoplankton cells per milliliter]

Taxa	Aug. 8, 1979			Aug. 9, 1979		Taxa	August 8, 1979			Aug. 9, 1979	
	(1200 hr)	(1550 hr)	(2400 hr)	(0800 hr)			(1250 hr)	(2045 hr)	(0440 hr)		
Site 16 - TRUCKEE RIVER NEAR SPARKS						Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS					
CHLOROPHYTA (green algae)						CHLOROPHYTA (green algae)					
Chlorophyceae						Chlorophyceae					
<i>Actinastrum hantzschii</i>	4	—	—	—		<i>Ankistrodesmus falcatus</i>	4	—	1		
<i>Ankistrodesmus falcatus</i>	1	—	—	—		<i>Chodatella quadriseta</i>	—	1	—		
<i>Cosmarium</i> sp.	—	—	1	—		<i>Chlorophyta flagellate</i>	3	1	—		
<i>Scenedesmus abundans</i>	—	4	8	4		<i>Closterium</i> sp.	—	1	—		
<i>S. dimorphus</i>	—	4	8	4		<i>Coelastrum microsporum</i>	—	8	—		
<i>S. opoliensis</i>	—	—	4	12		<i>Cosmarium</i> sp.	—	1	—		
<i>S. quadricauda</i>	—	3	4	12		<i>Crucigenia quadrata</i>	—	12	—		
CHRYSOPHYTA						<i>Mougeotia</i> sp.	—	1	—		
Bacillariophyceae (diatoms)						<i>Oocystis</i> sp.	8	—	4		
<i>Achnanthes minutissima</i>	2	2	1	5		<i>Pandoria morum</i>	16	—	—		
<i>A. sp.</i>	—	—	—	1		<i>Pediastrum duplex</i>	—	24	—		
<i>Amphora</i> sp.	—	1	—	—		<i>Scenedesmus abundans</i>	4	—	—		
<i>Cocconeis placentula</i>	33	14	11	16		<i>S. dimorphus</i>	8	—	4		
<i>Cyclotella Meneghiniana</i>	10	7	7	10		<i>S. opoliensis</i>	8	6	—		
<i>C. stelligera</i>	—	1	—	—		<i>S. quadricauda</i>	—	2	—		
<i>C. ocellata</i>	2	1	4	2		<i>Stauroastrum</i> sp.	—	1	—		
<i>Cymatopleura solea</i>	1	—	—	—		<i>Tetradon minimum</i>	1	—	—		
<i>Cymbella cistula</i>	14	10	4	10		<i>Tetrastrum staurogeniaeforme</i>	—	—	1		
<i>C. mexicana</i>	1	—	—	—		CHRYSOPHYTA					
<i>C. minuta</i>	2	—	—	—		Bacillariophyceae (diatoms)					
<i>C. sinuata</i>	—	1	—	—		<i>Achnanthes lanceolata</i>	2	1	3		
<i>Diatoma vulgare</i>	4	2	2	3		<i>A. sp.</i>	—	—	2		
<i>Epithemia sorex</i>	—	1	1	—		<i>Cocconeis placentula</i>	128	40	38		
<i>Fragilaria construens</i>	27	31	109	148		<i>Cocconeis lacustris</i>	—	4	—		
<i>Gomphonema herculeana</i>	1	2	4	1		<i>Cyclotella bodanica</i>	—	—	1		
<i>Gomphonema parvulum</i>	—	—	—	2		<i>C. Meneghiniana</i>	29	16	12		
<i>G. ventricosum</i>	1	—	1	—		<i>Cymatopleura solea</i>	—	—	1		
<i>Melosira italica</i>	1	1	—	—		<i>Cymbella minuta</i>	—	—	2		
<i>M. varians</i>	1	1	7	4		<i>Diatoma vulgare</i>	65	25	28		
<i>Navicula decussis</i>	6	1	1	1		<i>Fragilaria construens</i>	—	30	23		
<i>N. heutleri</i>	16	10	6	16		<i>F. vaucheriae</i>	—	42	—		
<i>N. pupula</i>	—	2	2	1		<i>Gomphonema acuminatum</i>	—	—	1		
<i>N. salinarum</i>	109	60	65	104		<i>G. olivaceum</i>	19	—	—		
<i>N. tri-punctata</i>	6	2	6	10		<i>G. parvulum</i>	11	9	2		
<i>N. viridula</i>	3	6	1	8		<i>G. truncatum</i>	1	1	—		
<i>Nitzschia acicularis</i>	3	1	—	1		<i>Gyrodinium</i> sp.	1	—	—		
<i>N. amphibia</i>	19	17	13	13		<i>Melosira varians</i>	28	31	31		
<i>N. communis</i>	3	2	1	2		<i>Navicula capitata</i>	1	—	—		
<i>N. dissipata</i>	18	12	8	18		<i>N. graciloides</i>	4	4	3		
<i>N. linearis</i>	—	1	2	3		<i>N. heutleri</i>	—	1	—		
<i>N. palea</i>	49	33	28	54		<i>N. mutica</i>	—	1	2		
<i>N. sp.</i>	14	19	9	15		<i>N. pupula</i>	1	2	—		
<i>Rhoicosphenia curvata</i>	3	2	7	3		<i>N. salinarum</i>	13	4	7		
CYANOPHYTA (blue-green algae)						<i>N. tri-punctata</i>	8	2	7		
Myxophyceae						<i>N. viridula</i>	—	—	3		
<i>Merismopedia punctata</i>	—	1	—	—		<i>Nitzschia acicularis</i>	44	5	40		
<i>Oscillatoria</i> sp.	1	2	1	1		<i>N. amphibia</i>	5	4	14		
EUGLENOPHYTA (euglenoids)						<i>N. dissipata</i>	—	—	7		
<i>Euglena</i> sp.	1	—	—	—		<i>N. filiformis</i>	1	—	—		
Miscellaneous flagellates	6	2	3	—		<i>N. linearis</i>	6	—	5		
						<i>N. palea</i>	35	16	27		
TOTAL	365	265	330	484		<i>N. palaeacea</i>	—	—	1		
						<i>N. sublinearis</i>	—	—	2		
						<i>N. sp.</i>	13	4	4		
						<i>Rhoicosphenia curvata</i>	21	12	5		
						<i>Stephanodiscus hantzschii</i>	—	1	—		
						<i>Synedra ulna</i>	14	4	4		
						CRYPTOPHYTA (cryptomonade)					
						Cryptophyceae					
						<i>Cryptomonas</i> sp.	2	3	3		
						CYANOPHYTA (blue-green algae)					
						Myxophyceae					
						<i>Anabaena spiroides</i>	5	6	2		
						<i>A. sp.</i>	12	30	20		
						<i>Oscillatoria</i> sp.	2	2	2		
						EUGLENOPHYTA (Euglenoids)					
						<i>Euglena</i> sp.	—	—	2		
						Miscellaneous flagellates	12	1	5		
						TOTAL	535	359	319		

TABLE 6.--Phytoplankton taxa and cell counts, August 1979--Continued

[Phytoplankton cells per milliliter]

Aug. 8, 1979				Aug. 9, 1979		Aug. 8, 1979				Aug. 9, 1979		
Taxa	(1200 hr)	(2000 hr)	(0600 hr)	Taxa		(1300 hr)	(1700 hr)	(2115 hr)	(0100 hr)	(0500 hr)	(0830 hr)	
Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO						Site 23 - TRUCKEE RIVER AT LOCKWOOD						
CHLOROPHYTA (green algae)						CHLOROPHYTA (green algae)						
Chlorophyceae						Chlorophyceae						
<i>Actinastrum hantzschii</i>	16	—	—	<i>Arktistrodesmus faculatus</i>		4	3	2	—	5	—	
<i>Arktistrodesmus falcatus</i>	32	24	—	<i>Chodatella quadriseta</i>		—	—	—	1	—	—	
<i>Chodatella quadriseta</i>	7	11	—	<i>Closteriopsis longissima</i>		10	3	7	7	10	6	
<i>Chlorophyta flagellate</i>	18	18	—	<i>Closterium</i> sp.		—	—	—	—	—	1	
<i>Closteriopsis longissima</i>	69	63	76	<i>Coelastrum microsporum</i>		8	8	—	8	—	—	
<i>Coelastrum microsporum</i>	56	80	32	<i>Dictyosphaerium pulchellum</i>		—	—	8	—	—	—	
<i>Dictyosphaerium pulchellum</i>	56	56	—	<i>Macratinium pusillum</i>		—	4	—	4	—	—	
<i>Microactinium pusillum</i>	—	8	—	<i>Oocystis</i> sp.		—	1	4	1	4	—	
<i>Pediastrum duplex</i>	—	—	64	<i>Pediastrum boryanum</i>		16	—	—	—	—	—	
<i>P. tetras</i>	32	—	32	<i>P. tetras</i>		16	—	8	—	8	8	
<i>Scenedesmus abundans</i>	16	32	192	<i>Scenedesmus abundans</i>		4	6	—	14	20	16	
<i>S. dimorphus</i>	28	8	48	<i>S. dimorphus</i>		4	—	4	4	8	8	
<i>S. opoliensis</i>	64	18	64	<i>S. opoliensis</i>		12	6	—	—	8	12	
<i>S. quadricauda</i>	72	24	56	<i>S. quadricauda</i>		4	12	18	8	12	24	
<i>S. sp.</i>	8	4	16	<i>S. sp.</i>		16	12	—	4	—	—	
<i>Tetraedron caudatum</i>	—	—	4	<i>Tetraedron minimum</i>		1	6	2	2	—	1	
<i>T. minimum</i>	11	11	4	<i>T. trigonum</i>		—	—	1	—	—	—	
<i>Tetrastrum staurogeniaeforme</i>	4	5	4	<i>Tetrastrum staurogeniaeforme</i>		—	1	—	—	1	1	
<i>Treubaria setigerum</i>	—	2	—	<i>Ulothrix</i> sp.		—	—	1	—	—	—	
<i>Tetraedron trigonum</i>	—	2	—	<i>Staurostrum</i> sp.		—	—	—	—	—	1	
CHRYSTOPHYTA						CHRYSTOPHYTA						
Bacillariophyceae (diatoms)						Bacillariophyceae (diatoms)						
<i>Achnanthes lanceolata</i>	—	3	—	<i>Achnanthes lanceolata</i>		—	3	—	—	—	—	
<i>A. sp.</i>	7	—	—	<i>A. minutissima</i>		1	1	—	—	1	—	
<i>Amphora ovalis</i>	—	2	—	<i>A. sp.</i>		3	4	2	—	—	—	
<i>Cocconeis placentula</i>	90	39	48	<i>Amphipleura</i> sp.		—	—	1	—	—	—	
<i>Cocconeis lacustris</i>	83	98	92	<i>Cocconeis placentula</i>		13	12	15	14	12	12	
<i>Cyclotella meneghiniana</i>	50	68	40	<i>Cocconeis denarius</i>		7	5	2	3	1	—	
<i>Cymatopleura solea</i>	—	2	—	<i>C. sp.</i>		1	6	9	8	10	13	
<i>Cymbella</i> sp.	4	—	—	<i>Cyclotella bodanica</i>		—	—	—	1	—	—	
<i>Epithemia</i> sp.	—	3	4	<i>C. meneghiniana</i>		23	32	15	15	20	24	
<i>Eunotia</i> sp.	—	2	—	<i>C. ocellata</i>		19	10	27	14	10	11	
<i>Fragilaria construens</i>	790	185	977	<i>Cymatopleura solea</i>		2	—	—	—	—	—	
<i>F. vaucheriae</i>	—	13	—	<i>Cymbella cistula</i>		3	4	4	4	5	2	
<i>Gomphonema parvulum</i>	—	6	—	<i>C. minuta</i>		2	1	—	1	1	2	
<i>G. tergestinum</i>	4	—	4	<i>C. sinuata</i>		—	1	1	1	—	—	
<i>Melosira granulata</i>	54	20	44	<i>Diatoma vulgare</i>		1	4	1	—	4	5	
<i>M. varians</i>	7	3	16	<i>Eunotia</i> sp.		—	—	1	—	—	—	
<i>Navicula decussis</i>	—	3	4	<i>Fragilaria construens</i>		182	125	95	270	101	186	
<i>N. graciloides</i>	22	13	16	<i>Gomphonis herculeana</i>		—	—	2	2	1	1	
<i>N. mutica</i>	—	2	—	<i>Gomphonema angustatum</i>		—	3	8	—	—	—	
<i>N. pupula</i>	7	8	—	<i>G. parvulum</i>		2	3	3	6	9	5	
<i>N. salinarum</i>	7	15	4	<i>G. tergestinum</i>		—	1	2	4	—	—	
<i>N. tripunctata</i>	—	2	—	<i>G. ventricosum</i>		—	—	1	—	—	—	
<i>N. viridula</i>	—	—	4	<i>Melosira granulata</i>		5	—	12	2	31	11	
<i>Nitzschia acicularis</i>	61	29	32	<i>M. italica</i>		2	—	—	—	—	—	
<i>N. amphibia</i>	14	3	16	<i>M. varians</i>		3	1	9	16	16	14	
<i>N. communis</i>	4	6	—	<i>Navicula capitata</i>		—	—	1	1	—	—	
<i>N. dissipata</i>	—	2	—	<i>N. decussis</i>		2	1	—	—	—	—	
<i>N. filiformis</i>	4	—	—	<i>N. heufleri</i>		—	1	5	1	—	—	
<i>N. linearis</i>	—	2	—	<i>N. mutica</i>		50	56	42	56	53	54	
<i>N. palea</i>	51	21	24	<i>N. pupula</i>		14	6	8	15	12	28	
<i>N. sp.</i>	25	11	24	<i>N. salinarum</i>		50	46	40	30	44	60	
<i>Rhoicosphenia curvata</i>	7	10	4	<i>N. tripunctata</i>		2	1	1	—	—	1	
<i>Rhopalodia giberula</i>	—	3	—	<i>N. viridula</i>		—	—	3	—	2	4	
<i>Synedra ulna</i>	7	5	4	<i>Nitzschia acicularis</i>		16	8	1	2	7	4	
CRYPTOPHYTA						CRYPTOPHYTA						
Cryptophyceae (cryptomonads)						Cryptophyceae						
<i>Chroomonas</i> sp.	87	5	—	<i>N. amphibia</i>		23	31	14	24	12	18	
<i>Cryptomonas</i> sp.	25	18	—	<i>N. communis</i>		6	5	7	8	2	1	
CYANOPHYTA (blue-green algae)						CYANOPHYTA (blue-green algae)						
Myxophyceae						Myxophyceae						
<i>Anabaena</i> sp.	7	11	8	<i>N. dissipata</i>		9	10	6	16	5	8	
<i>Coelosphaerium Kuetsingianum</i>	168	—	—	<i>N. filiformis</i>		1	—	—	1	—	1	
<i>Dactylococcopsis Smithii</i>	7	3	—	<i>N. holistica</i>		—	—	—	8	—	—	
<i>Gomphosphaeria lacustris</i>	—	64	160	<i>N. linearis</i>		—	4	1	—	3	—	
<i>Merismopedia tenuissima</i>	672	160	64	<i>N. palea</i>		45	42	35	27	26	56	
<i>Oscillatoria</i> sp.	32	15	16	<i>N. sp.</i>		14	9	13	13	7	7	
<i>Rhaphidopsis mediterranea</i>	51	24	100	<i>Rhoicosphenia curvata</i>		10	9	6	4	17	6	
Miscellaneous flagellates	72	16	48	<i>Staurois</i> sp.		—	—	—	1	—	—	
TOTAL						TOTAL						
2908						724						
1261						559						
2345						549						
						658						
						513						
						650						

[Phytoplankton cells per milliliter]

Aug. 8, 1979					Aug. 9, 1979					Aug. 10, 1979					Aug. 9, 1979					Aug. 10, 1979				
Taxa					Taxa					Taxa					Taxa					Taxa				
(2235 hr)					(0420 hr) (1615 hr) (2000 hr)					(0800 hr)					(1230 hr) (1630 hr) (2025 hr)					(0035 hr) (0435 hr) (0800 hr)				
Site 36 - TRUCKEE RIVER AT DERBY DAM										Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM														
CHLOROPHYTA (green algae)										CHLOROPHYTA (green algae)														
Chlorophyceae										Chlorophyceae														
Arkiatodeasmus falcatius 21 6 27 16 11										Actinastrum Hantzschii — — — 15 — 48														
Chlamydomonas flagellate — 1 45 34 7										Arkiatodeasmus falcatius 191 141 180 124 158 180														
Chlorophyta unicell 4 7 10 — 5										Chlamydomonas flagellate 73 76 39 — 61 —														
Chodatella quadriseta — — 2 — —										Chlamydomonas flagellate — — — 5 6 6														
Closteriopsis longissima 9 5 4 16 23										Closteriopsis longissima 48 128 — 88 96 48														
Closterium sp. — 1 — — 2										Coelastrum microsporium — — 6 — —														
Coelastrum microsporium 8 16 36 — 60										Coelastrum microsporium 6 — — — —														
Cosmarium botrytis — — 2 — —										Cosmarium sp. — — — — —														
C. sp. 1 — — — —										Golenkinitia radiata 24 64 44 — 24 —														
Cruentigentic quadrate — — — — 4										Kirchneriella contorta 26 — 67 5 24 —														
C. tetrapedia — 5 — — —										Oocystis sp. 96 — 176 — —														
Dictyosphaerium pulchellum 12 — — — —										Pediastrum Boryanum — 80 96 — —														
Franseria Droscheri — 80 — — 24										P. duplex — — — 20 — —														
Gonium pectorate — — 2 — —										P. tetras 24 88 136 — 24 158														
Kirchneriella contorta — — 4 — —										Scenedesmus abundans — — — 64 — —														
Microcystis pusillum — — — — —										S. armatus 22 52 100 44 — 44														
Pediastrum Boryanum — 16 — — 32										S. bifuga 48 44 — — 24 —														
P. tetras — 16 — — 32										S. dimorphus 200 88 136 240 192 336														
Oocystis sp. 6 1 9 — —										S. opoliensis 90 44 66 32 — 66														
Scenedesmus abundans 18 34 36 8 36										S. quadricauda 12 20 24 88 108 432														
S. denticulatus — — 8 — —										S. sp. 79 59 34 60 54 62														
S. bifuga 4 4 — — —										Selenastrum minutum 62 146 146 76 127 90														
S. dimorphus 20 34 48 24 72										Tetradon caudatum 6 5 6 16 — —														
S. opoliensis 78 28 16 24 48										T. minimum — 5 — — 12 11														
S. quadricauda 6 4 32 38 12										T. trigonum — 5 11 11 12 11														
S. sp. 12 8 28 28 24										Tetradon staurogeniaeforme 22 16 6 32 24 50														
Sahroederia setigera — — 4 — —										Trebardia setigerum 6 — 6 5 6 —														
Staurostrum sp. — — — — 2										CHRYSTOPHYTA														
Tetradon caudatum — 1 6 2 —										Bacillariophyceae (diatoms)														
T. minimum 4 4 31 8 7										Cocconeis placentula 11 5 6 11 — 6														
T. trigonum 1 — 4 — —										Cyclotella Kuetzingiana 112 97 135 54 61 107														
Tetradon staurogeniaeforme 8 3 8 4 —										C. Meneghiniana 196 206 152 137 97 208														
CHRYSTOPHYTA										C. pseudostelligera — — — — 17														
Bacillariophyceae (diatoms)										Epithemia sorex 6 11 — — —														
Achnanthes lanceolata — — — 4 —										Fractilaria capuina — 325 — 465 — —														
A. minutissima — — — — 4										Melosira granularis 673 947 673 800 370 1,117														
Cocconeis placentula 30 22 47 26 16										Naviola pupula — — — — 6														
Cyclotella Bodanica 1 — — — —										Nitzschia acicularis 17 11 6 5 6 6														
C. Meneghiniana 127 115 379 321 319										N. amphibia 11 54 6 16 18 22														
C. ocellata 8 5 10 10 4										N. palea — — — — 11														
C. stelligera 1 2 — — —										N. stagnorum 56 70 84 11 18 28														
C. striata — 1 — — —										N. sp. — 16 — — —														
C. sp. — — — 4 —										Synedra ulna — — — — —														
Diatoma vulgare 10 1 2 4 9										Chrysophyceae														
Eunotia sp. 14 2 2 8 2										Mallomonas sp. — 11 — — —														
Fractilaria construens 94 43 33 — 76										CRYPTOPHYTA (cryptomonads)														
Gomphonema herculeana — — — 4 —										Cryptophyceae														
Gomphonema parvulum 10 5 4 10 5										Chroomonas sp. 208 216 1,072 1,071 830 3,013														
G. tergestinum 4 2 14 16 4										Cryptomonas sp. 17 249 73 141 48 297														
Melosira granulata sp. 8 9 — 6 2										CYANOPHYTA (blue-green algae)														
M. varians 3 4 4 — 2										Myxophyceae														
Naviola decussis — — 2 — —										Anabaena circinalis 965 476 168 114 303 258														
N. mutica 1 3 — — 4										A. sp. 132 43 90 16 42 17														
N. pupula 14 13 29 32 34										Marimnapedia tenuissima 96 608 720 256 — 96														
N. tripartita 3 — — — —										EUGLENOPHYTA (euglenoids)														
Naviola viridula 1 — — 4 —										Phacus sp. — — — — — 6														
Nitzschia acicularis 17 8 16 6 11										Miscellaneous flagellates 432 438 421 530 606 505														
N. amphibia 45 26 45 44 56										TOTAL 3973 4844 4885 4599 3351 7262														
N. communis 8 2 8 14 7																								
N. dissipata 4 1 10 6 5																								
N. linearis 1 — — 4 2																								
N. palea 26 22 16 24 36																								
N. sp. 13 5 6 8 13																								
Rhoicosphenia curvata — 3 2 6 5																								
Synedra nasutaria sp. — — 2 — —																								
S. ulna 1 — 4 2 2																								
Chrysophyceae																								
Dinobryon sp. — — 2 — —																								
Mallomonas sp. — — 2 — 2																								
CRYPTOPHYTA (cryptomonads)																								
Cryptophyceae																								
Chroomonas sp. 12 8 2 12 9																								
Cryptomonas sp. 12 8 33 26 20																								
CYANOPHYTA (blue-green algae)																								
Myxophyceae																								
Anabaena sp. 1 1 — 2 —																								
Coelosphaerium Kuetzingianum 180 — — 240 —																								
Comphosphaeria lacustris 64 24 — — —																								
Marimnapedia punctata — 24 16 — 16																								
M. tenuissima — — — 32 —																								
Oscillatoria sp. 4 — 4 — 9																								
EUGLENOPHYTA (euglenoids)																								
Euglena sp. — — 2 4 —																								
Miscellaneous flagellates 81 69 80 64 45																								
TOTAL 1010 712 1144 1175 1126																								

TABLE 6.--Phytoplankton taxa and cell counts, August 1979--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 10, 1979					
	(0040 hr)	(0435 hr)	(0805 hr)	(1200 hr)	(1600 hr)	(2020 hr)
Site 74 - TRUCKEE CANAL AT US 50 ABOVE LAHONTAN RESERVOIR						
CHLOROPHYTA (green algae)						
Chlorophyceae						
<i>Actinastrum Hantzschii</i>	80	32	56	88	--	--
<i>Arkistrodesmus falcatus</i>	119	111	241	101	46	--
<i>Chlamydomonas flagellate</i>	81	40	97	280	370	145
<i>Chlorophyta unicell</i>	105	76	86	255	231	159
<i>Chodatella quadriseta</i>	110	25	--	25	249	134
<i>Closteriopsis longissima</i>	62	58	97	162	85	44
<i>Coelastrum microsporum</i>	288	732	996	942	600	396
<i>Dictyosphaerium pulchellum</i>	592	432	144	44	100	44
<i>Elakototrix gelatinosa</i>	--	--	4	--	--	--
<i>Eudorina elegans</i>	--	--	--	96	--	--
<i>Franceia Droscheri</i>	--	--	--	4	--	--
<i>Gloeocystis vesiculosa</i>	--	128	--	--	--	--
<i>Kirchneriella contorta</i>	724	116	216	16	--	--
<i>Microactinium pusillum</i>	5696	2848	2244	1768	2720	1364
<i>Oocystis</i> sp.	67	111	54	--	11	70
<i>Pediastrum Boryanum</i>	160	112	224	224	112	352
<i>P. duplex</i>	--	112	64	64	64	112
<i>P. tetras</i>	40	88	--	88	56	120
<i>Scenedesmus abundans</i>	60	16	168	96	16	16
<i>S. armatus</i>	228	16	--	--	--	--
<i>S. bijuga</i>	152	84	60	104	146	194
<i>S. dimorphus</i>	420	120	248	548	272	100
<i>S. opoliensis</i>	1710	1352	1042	750	396	240
<i>S. quadricauda</i>	234	140	570	400	598	306
<i>S. sp.</i>	538	496	518	316	128	60
<i>Schroederia setigera</i>	10	4	22	14	7	7
<i>Selenastrum minutum</i>	95	273	539	107	377	111
CHRYSOPHYTA						
Bacillariophyceae (diatoms)						
<i>Achnanthes lanceolata</i>	--	--	4	4	--	--
<i>Cocconeis placentula</i>	14	4	7	11	7	7
<i>Cyclotella Meneghiniana</i>	4728	3858	3329	2880	4438	3464
<i>Cymatopleura solea</i>	5	--	--	--	--	--
<i>Fragilaria</i> sp.	--	25	29	--	11	18
<i>Gomphonema</i> sp.	--	4	--	--	--	--
<i>Melosira granulata</i>	86	100	93	205	50	86
<i>Navicula mutica</i>	5	--	--	--	4	--
<i>N. viridula</i>	--	7	25	14	14	--
<i>Nitzschia acicularis</i>	414	194	208	72	32	59
<i>N. amphibia</i>	29	4	14	7	7	--
<i>N. communis</i>	5	--	4	7	--	--
<i>N. holsatica</i>	38	--	11	--	--	--
<i>N. palea</i>	19	14	36	32	18	7
<i>N. stagnorum</i>	29	11	40	36	18	11
<i>N. spp.</i>	33	18	--	36	14	--
<i>Stephanodiscus astraea</i>	--	4	14	--	--	--
<i>Synedra ulna</i>	14	25	29	14	39	44
CRYPTOPHYTA (cryptomonads)						
Cryptophyceae						
<i>Chroomonas</i> sp.	62	58	18	57	11	18
<i>Cryptomonas</i> sp.	219	194	119	190	46	33
CYANOPHYTA (blue-green algae)						
Myxophyceae						
<i>Anabaena</i> sp.	5	--	--	--	--	4
<i>Aphanocapsa</i> sp.	5	7	32	29	28	22
<i>Coelosphaerium Kuetszingianum</i>	--	4	--	--	--	--
<i>Merismopedia punctata</i>	5	--	4	--	--	4
<i>N. tenuissima</i>	38	22	32	25	89	37
<i>Oscillatoria</i> sp.	5	4	4	--	--	--
EUGLENOPHYTA (euglenoids)						
<i>Euglena</i> sp.	--	--	11	--	--	--
<i>Phacus</i> sp.	--	--	--	--	--	4
Miscellaneous flagellates	124	449	636	176	349	108
TOTAL	17453	12528	12389	10287	11759	7900

TABLE 7.--Phytoplankton taxa and cell counts, June 1980

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1140 hr)	June 6, 1980 (0005 hr)	Taxa	June 5, 1980 (1300 hr)	June 6, 1980 (0125 hr)
Site 13 - TRUCKEE RIVER AT CRYSTAL PEAK PARK AT VERDI			Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE		
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)		
Chlorophyceae			Chlorophyceae		
<i>Arkestrodesmus falcatus</i>	--	1	<i>Carteria</i> sp.	32	20
<i>Carteria</i> sp.	165	25	<i>Elakatothrix gelatinosa</i>	2	--
<i>Eudorina elegans</i>	--	32	<i>Mougeotia</i> sp.	1	--
<i>Oocystis</i> sp.	--	1	<i>Oocystis</i> sp.	1	2
<i>Schroederia setigera</i>	8	8	<i>Schroederia setigera</i>	8	9
<i>Staurastrum sebaldi</i>	--	1	<i>Tetradon caudatum</i>	--	1
CHRYSTOPHYTA			<i>Ulothrix</i> sp.	1	--
Bacillariophyceae (diatoms)			CHRYSTOPHYTA		
<i>Achnanthes lanceolata</i>	--	1	Bacillariophyceae (diatoms)		
<i>A. minutissima</i>	17	18	<i>Achnanthes lanceolata</i>	1	4
<i>Asterionella formosa</i>	9	--	<i>A. minutissima</i>	13	13
<i>Cocconeis placentula</i>	2	1	<i>A. sp.</i>	2	--
<i>Cyclotella Bodanica</i>	2	--	<i>Asterionella formosa</i>	1	3
<i>C. Meneghiniana</i>	--	2	<i>Cocconeis placentula</i>	4	--
<i>Cymbella cistula</i>	14	3	<i>Cyclotella Bodanica</i>	1	1
<i>C. minuta</i>	18	12	<i>Cymbella cistula</i>	3	11
<i>C. sinuata</i>	--	1	<i>C. minuta</i>	46	14
<i>Diatoma hiemale</i>	--	2	<i>C. sinuata</i>	2	5
<i>D. vulgare</i>	11	1	<i>Diatoma hiemale</i>	2	1
<i>Fragilaria construens</i>	--	11	<i>D. vulgare</i>	--	2
<i>F. crotonensis</i>	--	1	<i>Fragilaria capucina</i>	4	4
<i>F. vaucheriae</i>	2	4	<i>F. construens</i>	2	8
<i>Gomphonema truncatum</i>	5	4	<i>F. crotonensis</i>	--	1
<i>Melosira italica</i>	3	6	<i>F. vaucheriae</i>	7	4
<i>M. varians</i>	2	--	<i>Gomphonema truncatum</i>	2	--
<i>Meridion circulare</i>	2	1	<i>G. parvulum</i>	3	--
<i>Navicula heufleri</i>	2	1	<i>G. parvulum</i>	--	2
<i>N. salinarum</i>	3	--	<i>Hantzschia arcus</i>	1	3
<i>N. viridula</i>	3	--	<i>Melosira granulata</i>	4	14
<i>Nitzschia acicularis</i>	8	7	<i>M. italica</i>	--	14
<i>N. communis</i>	--	1	<i>M. varians</i>	1	--
<i>N. dissipata</i>	--	1	<i>Meridion circulare</i>	2	1
<i>N. gracilis</i>	6	3	<i>Navicula peregrina</i>	--	1
<i>N. palea</i>	2	6	<i>N. rhynchocephala</i>	1	--
<i>N. sp.</i>	2	4	<i>N. tripartita</i>	3	1
<i>Surirella ovata</i>	2	--	<i>N. viridula</i>	2	3
<i>Tabellaria fenestrata</i>	9	6	<i>Nitzschia acicularis</i>	4	8
Chrysophyceae			<i>N. dissipata</i>	3	--
<i>Mallomonas akrokomos</i>	104	29	<i>N. gracilis</i>	3	--
CRYPTOPHYTA (cryptomonads)			<i>N. holsatica</i>	--	4
Cryptophyceae			<i>N. palea</i>	10	10
<i>Chroomonas</i> sp.	38	13	<i>N. sp.</i>	4	--
<i>Cryptomonas</i> sp.	28	4	<i>Rhoicosphenia curvata</i>	1	--
CYANOPHYTA (blue-green algae)			<i>Stephanodiscus Hantzschii</i>	1	4
Myxophyceae			<i>S. ovata</i>	1	1
<i>Aphanizomenon flos-aquae</i>	15	10	<i>Synedra cyclopum</i>	1	--
Immature cyanophyta trichome	5	6	<i>Tabellaria fenestrata</i>	18	18
<i>Oscillatoria</i> sp.	2	--	Chrysophyceae		
PYRRHOPHYTA (fire algae)			<i>Dinobryon</i> sp.	3	--
Dinophyceae			<i>Mallomonas akrokomos</i>	52	41
<i>Peridinium</i> sp.	2	4	CRYPTOPHYTA (cryptomonads)		
Miscellaneous flagellates	144	176	Cryptophyceae		
TOTAL	635	407	<i>Chroomonas</i> sp.	37	7
			<i>Cryptomonas</i> sp.	25	9
			CYANOPHYTA (blue-green algae)		
			Myxophyceae		
			<i>Aphanizomenon flos-aquae</i>	17	11
			<i>Dactylococcopsis Smithii</i>	1	1
			Immature cyanophyta trichome	6	11
			<i>Oscillatoria</i> sp.	2	1
			PYRRHOPHYTA (fire algae)		
			Dinophyceae		
			<i>Gymnodinium</i> sp.	1	--
			<i>Peridinium</i> sp.	--	4
			Miscellaneous flagellates	197	220
			TOTAL	539	492

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 13, 1980 (0930 hr)	Taxa	June 6, 1980 (0055 hr)
Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE		Site 16 - TRUCKEE RIVER NEAR SPARKS	
CHLOROPHYTA (green algae)		CHLOROPHYTA (green algae)	
Chlorophyceae		Chlorophyceae	
<i>Schroederia setigera</i>	2	<i>Cartera</i> sp.	55
<i>Ulothrix</i> sp.	1	<i>Oocystis</i> sp.	1
CHRYSOPHYTA		<i>Schroederia setigera</i>	1
Bacillariophyceae (diatoms)		<i>Ulothrix</i> sp.	1
<i>Achnanthes clerei</i>	1	CHRYSOPHYTA	
<i>A. lanceolata</i>	1	Bacillariophyceae (diatoms)	
<i>A. minutissima</i>	8	<i>Achnanthes lanceolata</i>	1
<i>A. sp.</i>	1	<i>A. minutissima</i>	16
<i>Asterionella formosa</i>	3	<i>Asterionella formosa</i>	15
<i>Cocconeis placentula</i>	10	<i>Cyclotella Bodanica</i>	2
<i>Cyclotella Bodanica</i>	3	<i>Cymbella cistula</i>	9
<i>C. Kuetzingiana</i>	1	<i>C. minuta</i>	28
<i>C. Meneghiniana</i>	3	<i>Diatoma vulgare</i>	4
<i>Cymbella cistula</i>	21	<i>Fragilaria capucina</i>	2
<i>C. minuta</i>	19	<i>F. construens</i>	22
<i>C. sinuata</i>	3	<i>F. raucheri</i>	13
<i>Diatoma hiemale</i>	1	<i>Gomphonema herculeana</i>	5
<i>D. vulgare</i>	12	<i>Gomphonema truncatum</i>	4
<i>Eunotia</i> sp.	1	<i>G. parvulum</i>	1
<i>Fragilaria crotonensis</i>	26	<i>Hantzschia arcus</i>	2
<i>F. vaucheriae</i>	12	<i>Melosira granulata</i>	7
<i>Gomphonema herculeana</i>	2	<i>M. italica</i>	10
<i>Gomphonema angustatum</i>	4	<i>Navicula hambergii</i>	1
<i>Hantzschia arcus</i>	2	<i>N. heufleri</i>	1
<i>Melosira granulata</i>	8	<i>N. salinarum</i>	8
<i>M. varians</i>	2	<i>N. tripunctata</i>	3
<i>Navicula heufleri</i>	2	<i>N. viridula</i>	3
<i>N. salinarum</i>	2	<i>Nitzschia amphibia</i>	2
<i>N. tripunctata</i>	1	<i>N. dissipata</i>	7
<i>N. viridula</i>	1	<i>N. palea</i>	13
<i>Nitzschia acicularis</i>	3	<i>N. sp.</i>	3
<i>N. amphibia</i>	1	<i>Rhoicosphenia curvata</i>	2
<i>N. communis</i>	1	<i>Stephanodiscus Hantzschii</i>	1
<i>N. dissipata</i>	2	<i>Synedra ulna</i>	1
<i>N. linearis</i>	1	<i>Tabellaria fenestrata</i>	9
<i>N. palea</i>	5	Chrysophyceae	
<i>N. sublinearis</i>	2	<i>Mallomonas akrokomos</i>	19
<i>N. sp.</i>	2	CRYPTOPHYTA (cryptomonads)	
<i>Rhoicosphenia curvata</i>	4	Cryptophyceae	
<i>Synedra radians</i>	2	<i>Chroomonas</i> sp.	8
<i>S. ulna</i>	2	<i>Cryptomonas</i> sp.	6
<i>Tabellaria fenestrata</i>	6	CYANOPHYTA (blue-green algae)	
Chrysophyceae		Myxophyceae	
Chrysophyta flagellates	1	<i>Aphanizomenon flos-aquae</i>	9
<i>Dinobryon sertularia</i>	4	Immature cyanophyta trichome	11
<i>Mallomonas</i> sp.	1	<i>Oscillatoria</i> sp.	2
CRYPTOPHYTA (cryptomonads)		PYRRHOPHYTA (fire algae)	
Cryptophyceae		Dinophyceae	
<i>Chroomonas</i> sp.	2	<i>Gymnodinium</i> sp.	1
<i>Cryptomonas</i> sp.	5	Miscellaneous flagellates	104
CYANOPHYTA (blue-green algae)			
Myxophyceae			
<i>Oscillatoria</i> sp.	4		
PYRRHOPHYTA (fire algae)			
Dinophyceae			
<i>Gymnodinium</i> sp.	1		
Miscellaneous flagellates	70		
TOTAL	272	TOTAL	413

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 13, 1980 (1035 hr)	Taxa	June 5, 1980 (1250 hr)	June 6, 1980 (0040 hr)
Site 16 - TRUCKEE RIVER NEAR SPARKS		Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS		
CHLOROPHYTA (green algae)		CHLOROPHYTA (green algae)		
Chlorophyceae		Chlorophyceae		
<i>Scenedesmus abundans</i>	4	Chlorophyta flagellates	24	7
<i>Schroederia setigera</i>	2	<i>Pandorina morum</i>	--	32
<i>Ulothrix</i> sp.	1	CHRYSOPHYTA (diatoms)		
<i>Zygnema</i> sp.	2	Bacillariophyceae		
CHRYSOPHYTA		<i>Achnanthes lanceolata</i>	--	7
Bacillariophyceae (diatoms)		<i>Cocconeis placentula</i>	5	11
<i>Achnanthes lanceolata</i>	2	<i>Cyclotella Meneghiniana</i>	17	11
<i>A. minutissima</i>	13	<i>Cymbella minuta</i>	--	2
<i>A. sp.</i>	2	<i>Diatoma vulgare</i>	43	5
<i>Asterionella formosa</i>	7	<i>Fragilaria capucina</i>	5	5
<i>Cocconeis placentula</i>	11	<i>F. construens</i>	1020	1780
<i>Cyclotella Bodanica</i>	1	<i>F. vaucheriae</i>	--	5
<i>C. Kuetzingiana</i>	2	<i>Gomphonema angustatum</i>	--	14
<i>C. Meneghiniana</i>	2	<i>Hantzschia arcus</i>	--	2
<i>C. ocellata</i>	2	<i>Melosira italica</i>	5	--
<i>Cymbella cistula</i>	26	<i>M. varians</i>	9	25
<i>C. meniscus</i>	2	<i>Navicula heufleri</i>	21	7
<i>C. minuta</i>	11	<i>N. peregrina</i>	2	2
<i>C. sinuata</i>	2	<i>N. pupula</i>	5	--
<i>Diatoma vulgare</i>	11	<i>N. salinarum</i>	38	5
<i>Epithemia sorax</i>	2	<i>N. tripunctata</i>	2	--
<i>Fragilaria construens</i>	9	<i>N. viridula</i>	26	25
<i>F. vaucheriae</i>	4	<i>Nitzschia acicularis</i>	9	9
<i>Gomphonema herculeana</i>	1	<i>N. commutata</i>	7	--
<i>Hantzschia arcus</i>	3	<i>N. dissipata</i>	12	2
<i>Melosira granulata</i>	5	<i>N. linearis</i>	12	2
<i>M. varians</i>	2	<i>N. palea</i>	59	23
<i>Navicula heufleri</i>	1	<i>N. sp.</i>	17	11
<i>N. salinarum</i>	2	<i>Rhoicosphenia curvata</i>	--	9
<i>N. tripunctata</i>	1	<i>Stephanodiscus Hantzschii</i>	9	--
<i>N. viridula</i>	4	<i>Surirella ovata</i>	2	5
<i>Nitzschia acicularis</i>	1	<i>Synedra ulna</i>	--	11
<i>N. amphibia</i>	1	CRYPTOPHYTA (cryptomonads)		
<i>N. dissipata</i>	2	Cryptophyceae		
<i>N. linearis</i>	1	<i>Chroomonas</i> sp.	24	2
<i>N. palea</i>	7	<i>Cryptomonas</i> sp.	24	--
<i>N. sublinearis</i>	1	CYANOPHYTA (blue-green algae)		
<i>N. sp.</i>	1	Myxophyceae		
<i>Rhoicosphenia curvata</i>	4	<i>Anabaena</i> sp.	2	2
<i>Stephanodiscus Hantzschii</i>	2	<i>Dactylococcopsis Smithii</i>	--	5
<i>Synedra ulna</i>	2	Miscellaneous flagellates	54	44
<i>Tabellaria fenestrata</i>	2			
Chrysophyceae		TOTAL	1453	2070
Chrysophyta flagellates	2			
<i>Dinobryon sertularia</i>	11			
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	2			
<i>Cryptomonas</i> sp.	4			
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Dactylococcopsis Smithii</i>	2			
Miscellaneous flagellates	39			
TOTAL	221			

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1230 hr)	June 6, 1980 (0025 hr)	Taxa	June 5, 1980 (1400 hr)	June 6, 1980 (0130 hr)
Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO			Site 22 - TRUCKEE RIVER AT VISTA		
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)		
Chlorophyceae			Chlorophyceae		
<i>Carteria</i> sp.	6	--	<i>Arkiastrodesmus falcatus</i>	--	1
Chlorophyta flagellates	12	16	<i>Carteria</i> sp.	49	38
<i>Closteropsis longissima</i>	--	2	<i>Kirchneriella subsolitaria</i>	--	4
<i>Coelastrum microsporum</i>	32	72	<i>Pediastrum tetras</i>	--	4
<i>Oocystis</i> sp.	12	--	<i>Scenedesmus opoliensis</i>	4	4
<i>Pediastrum Boryanum</i>	112	16	<i>S. quadricauda</i>	--	4
<i>P. tetras</i>	8	8	<i>Schroederia setigera</i>	--	2
<i>Scenedesmus abundans</i>	20	--	<i>Tetrastrum staurogeniaeforme</i>	1	--
<i>S. dimorphus</i>	8	--	<i>Ulothrix</i> sp.	--	1
<i>S. opoliensis</i>	32	40			
<i>S. quadricauda</i>	32	84	CHRYSOPHYTA		
<i>S. sp.</i>	8	--	Bacillariophyceae (diatoms)		
<i>Selenastrum minutum</i>	--	4	<i>Achnanthes lanceolata</i>	1	4
<i>Tetradrom minimum</i>	31	7	<i>A. minutissima</i>	14	9
<i>Tetrastrum staurogeniaeforme</i>	8	11	<i>Asterionella formosa</i>	3	1
CHRYSOPHYTA			<i>Cocconeis placentula</i>	2	3
Bacillariophyceae (diatoms)			<i>Coccinodiscus</i> sp.	1	--
<i>Achnanthes lanceolata</i>	4	7	<i>Cyclotella Meneghiniana</i>	8	6
<i>A. minutissima</i>	12	--	<i>Cymbella cistula</i>	8	9
<i>Amphora ovalis</i>	12	2	<i>C. mexicana</i>	--	1
<i>Caloneis amphibaena</i>	1	2	<i>C. minuta</i>	22	13
<i>Cocconeis placentula</i>	4	11	<i>C. sinuata</i>	--	1
<i>Cyclotella Meneghiniana</i>	43	65	<i>Diatoma vulgare</i>	1	2
<i>Cymbella cistula</i>	2	--	<i>Fragilaria construens</i>	37	37
<i>C. minuta</i>	6	2	<i>F. vaucheriae</i>	2	1
<i>Diatoma vulgare</i>	14	4	<i>Gomphonema herculeana</i>	1	--
<i>Fragilaria capucina</i>	4	9	<i>Gomphonema truncatum</i>	3	2
<i>F. construens</i>	581	439	<i>G. parvulum</i>	--	1
<i>F. vaucheriae</i>	--	22	<i>Hantzschia arcus</i>	1	3
<i>Gomphonema parvulum</i>	4	--	<i>Melosira granulata</i>	2	1
<i>Gyrodinium</i> sp.	--	2	<i>M. italica</i>	--	6
<i>Melosira granulata</i>	4	--	<i>M. varians</i>	--	1
<i>M. italica</i>	2	--	<i>Navicula graciloides</i>	1	2
<i>M. varians</i>	23	11	<i>N. heuffleri</i>	4	8
<i>Navicula graciloides</i>	4	4	<i>N. pupula</i>	1	1
<i>N. heuffleri</i>	25	42	<i>N. pygmaea</i>	--	1
<i>N. peregrina</i>	2	--	<i>N. salinarum</i>	4	4
<i>N. pupula</i>	1	--	<i>N. tripunctata</i>	2	--
<i>N. pygmaea</i>	2	2	<i>N. viridula</i>	2	2
<i>N. salinarum</i>	10	18	<i>Nitzschia acicularis</i>	8	--
<i>N. viridula</i>	4	18	<i>N. dissipata</i>	4	--
<i>Nitzschia acicularis</i>	25	--	<i>N. gracilis</i>	3	2
<i>N. amphibia</i>	--	2	<i>N. hololeuca</i>	--	6
<i>N. dissipata</i>	1	11	<i>N. palea</i>	8	9
<i>N. filiformis</i>	2	--	<i>N. tryblionella</i>	--	1
<i>N. hololeuca</i>	--	8	<i>N. sp.</i>	4	5
<i>N. linearis</i>	2	7	<i>Rhoicosphenia curvata</i>	2	2
<i>N. palea</i>	35	22	<i>Stephanodiscus Hantzschii</i>	2	3
<i>N. tryblionella</i>	6	7	<i>Surirella ovata</i>	1	1
<i>N. sp.</i>	10	--	<i>Synedra ulna</i>	1	1
<i>Pinnularia</i> sp.	--	4	<i>Tabellaria fenestrata</i>	4	8
<i>Rhoicosphenia curvata</i>	2	4	Chrysophyceae		
<i>Rhopalodia giberula</i>	4	--	<i>Mallomonas akrokomas</i>	38	27
<i>Stephanodiscus Hantzschii</i>	8	13	CRYPTOPHYTA (cryptomonads)		
<i>Surirella ovata</i>	3	4	Cryptophyceae		
<i>Synedra ulna</i>	20	13	<i>Chroomonas</i> sp.	16	13
Chrysophyceae			<i>Cryptomonas</i> sp.	17	9
<i>Mallomonas akrokomas</i>	--	2	CYANOPHYTA (blue-green algae)		
CRYPTOPHYTA (cryptomonads)			Myxophyceae		
Cryptophyceae			<i>Anabaena</i> sp.	1	2
<i>Chroomonas</i> sp.	96	36	<i>Aphanizomenon flos-aquae</i>	3	10
<i>Cryptomonas</i> sp.	49	31	<i>Immature cyanophyta trichome</i>	--	4
CYANOPHYTA (blue-green algae)			PYRRHOPHYTA (fire algae)		
Myxophyceae			Dinophyceae		
<i>Anabaena</i> sp.	--	4	<i>Ceratium hirundinella</i>	--	1
<i>Dactylococopsis Smithii</i>	2	--	Miscellaneous flagellates	172	202
<i>Immature cyanophyta trichome</i>	--	4			
<i>Meniscomedia tenuissima</i>	64	--			
<i>Oscillatoria</i> sp.	2	11			
Miscellaneous flagellates	174	143			
TOTAL	1,590	1,246			

[Phytoplankton cells per milliliter]

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TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 6, 1980 (0120 hr)	Taxa	June 13, 1980 (1000 hr)
Site 27 - TRUCKEE RIVER AT PATRICK		Site 27 - TRUCKEE RIVER AT PATRICK	
CHLOROPHYTA (green algae)		CHLOROPHYTA (green algae)	
Chlorophyceae		Chlorophyceae	
<i>Arkistrodesmus falcatus</i>	3	<i>Arkistrodesmus falcatus</i>	1
<i>Carteria</i> sp.	9	<i>Closteropsis longissima</i>	1
<i>Cosmarium</i> sp.	1	<i>Pediastrum tetras</i>	8
<i>Scenedesmus opoliensis</i>	2	<i>Scenedesmus dimorphus</i>	4
<i>Schroederia setigera</i>	3	<i>S. opoliensis</i>	16
<i>Tetrastrum staurogeniaeforme</i>	2	<i>Tetrastrum staurogeniaeforme</i>	5
CHRYSOPHYTA		<i>Ulothrix</i> sp.	1
Bacillariophyceae (diatoms)		<i>Zygnema</i> sp.	1
<i>Achnanthes lanceolata</i>	2	CHRYSOPHYTA	
<i>A. minutissima</i>	16	Bacillariophyceae (diatoms)	
<i>Asterionella formosa</i>	8	<i>Achnanthes clevei</i>	1
<i>Cocconeis placentula</i>	2	<i>A. lanceolata</i>	2
<i>Cocconeodiscus</i> sp.	1	<i>A. minutissima</i>	8
<i>Cyclotella Bodanica</i>	3	<i>Asterionella formosa</i>	5
<i>C. Meneghiniana</i>	4	<i>Cocconeis placentula</i>	5
<i>Cymbella cistula</i>	10	<i>Cocconeodiscus</i> sp.	4
<i>C. minuta</i>	23	<i>Cyclotella Kuetzingiana</i>	2
<i>Diatoma vulgare</i>	4	<i>C. Meneghiniana</i>	7
<i>Epithemia sorex</i>	1	<i>Cymbella cistula</i>	14
<i>E. turgida</i>	2	<i>C. minuta</i>	17
<i>Fragilaria capucina</i>	2	<i>Diatoma vulgare</i>	5
<i>F. construens</i>	47	<i>Fragilaria construens</i>	165
<i>F. vaucheriae</i>	3	<i>F. vaucheriae</i>	2
<i>Gomphonema herculeana</i>	1	<i>Gomphonema herculeana</i>	3
<i>Gomphonema truncatum</i>	3	<i>Gomphonema parvulum</i>	3
<i>G. ventricosum</i>	1	<i>Hantzschia arcus</i>	1
<i>Hantzschia arcus</i>	1	<i>Melosira granulata</i>	6
<i>Melosira granulata</i>	4	<i>M. varians</i>	9
<i>M. italica</i>	8	<i>Navicula heufleri</i>	4
<i>M. varians</i>	2	<i>N. salinarum</i>	5
<i>Navicula graciloides</i>	2	<i>N. tripunctata</i>	5
<i>N. heufleri</i>	5	<i>N. viridula</i>	5
<i>N. pupula</i>	2	<i>Nitzschia acicularis</i>	3
<i>N. pygmaea</i>	1	<i>N. dissipata</i>	4
<i>N. salinarum</i>	1	<i>N. palea</i>	14
<i>N. tripunctata</i>	1	<i>N. sublinearis</i>	1
<i>N. vanheurnkii</i>	1	<i>Rhoicosphenia curvata</i>	3
<i>N. viridula</i>	5	<i>Synedra ulna</i>	3
<i>Nitzschia acicularis</i>	5	<i>Tabellaria fenestrata</i>	3
<i>N. amphibia</i>	3	CRYPTOPHYTA (cryptomonads)	
<i>N. capitellata</i>	2	Cryptophyceae	
<i>N. dissipata</i>	6	<i>Chroomonas</i> sp.	5
<i>N. palea</i>	6	<i>Cryptomonas</i> sp.	4
<i>N. tryblionella</i>	1	Miscellaneous flagellates	120
<i>N. sp.</i>	3		
<i>Rhoicosphenia curvata</i>	2		
<i>Stephanodiscus Hantzschii</i>	4		
<i>Surirella ovata</i>	1		
<i>Synedra ulna</i>	1		
<i>Tabellaria fenestrata</i>	15		
Chrysophyceae			
<i>Mallomonas akrokomos</i>	38		
CRYPTOPHYTA (cryptomonads)			
Cryptophyceae			
<i>Chroomonas</i> sp.	17		
<i>Cryptomonas</i> sp.	9		
CYANOPHYTA (blue-green algae)			
Myxophyceae			
<i>Aphanizomenon flos-aquae</i>	5		
Immature cyanophyta trichome	5		
Miscellaneous flagellates	203		
TOTAL	512	TOTAL	475

[Phytoplankton cells per milliliter]

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TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1325 hr)	June 6, 1980 (0110 hr)	Taxa	June 12, 1980 (0850 hr)
Site 36 - TRUCKEE RIVER AT DERBY DAM			Site 37 - TRUCKEE RIVER BELOW DERBY DAM	
CHLOROPHYTA (green algae)		256	CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Arkistrodesmus falcatius</i>	2	--	<i>Schroederia setigera</i>	3
<i>Carteria</i> sp.	5	24	<i>Ulothrix</i> sp.	3
<i>Coelastrum microsporum</i>	8	--	<i>Zygnema</i> sp.	3
<i>Diatyosphaerium pulchellum</i>	--	12	CHRYSOPHYTA	
<i>Eudorina elegans</i>	--	16	Bacillariophyceae (diatoms)	
<i>Oocystis</i> sp.	2	1	<i>Achnanthes lanceolata</i>	3
<i>Pediastrum boryanum</i>	16	--	<i>A. minutissima</i>	5
<i>P. tetras</i>	4	--	<i>Asterionella formosa</i>	7
<i>Scenedesmus abundans</i>	--	4	<i>Cocconeis placentula</i>	2
<i>S. quadricauda</i>	6	14	<i>Cocconeis</i> sp.	7
<i>Schroederia setigera</i>	6	2	<i>Cyclotella Bodanica</i>	2
<i>Tetraedron minimum</i>	2	--	<i>C. Meneghiniana</i>	23
<i>Tetrastrum staurogeniaeforme</i>	1	1	<i>C. ocellata</i>	2
<i>Ulothrix</i> sp.	1	--	<i>Cymbella cistula</i>	16
CHRYSOPHYTA			<i>C. minuta</i>	12
Bacillariophyceae (diatoms)			<i>Diatoma vulgare</i>	7
<i>Achnanthes lanceolata</i>	1	2	<i>Fragilaria construens</i>	228
<i>A. minutissima</i>	23	17	<i>F. vaucheriae</i>	77
<i>Amphora ovalis</i>	1	1	<i>Melosira granulata</i>	3
<i>Asterionella formosa</i>	4	1	<i>M. varians</i>	7
<i>Cocconeis placentula</i>	--	1	<i>Navicula heufleri</i>	9
<i>Cocconeis</i> sp.	1	2	<i>N. salinarum</i>	9
<i>Cyclotella Bodanica</i>	1	1	<i>N. viridula</i>	19
<i>C. Meneghiniana</i>	2	7	<i>Nitzschia acicularis</i>	3
<i>Cymatopleura solea</i>	1	--	<i>N. amphibia</i>	5
<i>Cymbella cistula</i>	8	7	<i>N. dissipata</i>	3
<i>C. minuta</i>	22	24	<i>N. palea</i>	19
<i>Diatoma vulgare</i>	1	1	<i>N. sublinearis</i>	5
<i>Epithemia eozes</i>	1	--	<i>Rhoicosphenia curvata</i>	5
<i>Fragilaria construens</i>	22	52	<i>Surirella ovata</i>	3
<i>F. vaucheriae</i>	7	2	<i>Synedra ulna</i>	2
<i>Gomphonema herculeana</i>	--	1	<i>Tabellaria fenestrata</i>	12
<i>Gomphonema truncatum</i>	2	--	Chrysophyceae	
<i>Hantzschia arcus</i>	--	3	Chrysophyta flagellates	3
<i>Melosira granulata</i>	6	--	CRYPTOPHYTA (cryptomonads)	
<i>M. italica</i>	12	4	Cryptophyceae	
<i>M. varians</i>	--	3	<i>Chroomonas</i> sp.	7
<i>Meridion circulare</i>	1	--	<i>Cryptomonas</i> sp.	7
<i>Navicula graciloides</i>	--	1	CYANOPHYTA (blue-green algae)	
<i>N. heufleri</i>	2	3	Myxophyceae	
<i>N. pulula</i>	1	--	<i>Oscillatoria</i> sp.	3
<i>N. salinarum</i>	14	6	Miscellaneous flagellates	223
<i>N. tripointata</i>	1	2		
<i>N. varheurokii</i>	--	1		
<i>N. viridula</i>	7	7		
<i>Nitzschia acicularis</i>	3	1		
<i>N. dissipata</i>	10	18		
<i>N. gracilis</i>	4	--		
<i>N. hungarica</i>	--	1		
<i>N. linearis</i>	1	1		
<i>N. palea</i>	17	12		
<i>N. sublinearis</i>	1	--		
<i>N. sp.</i>	7	9		
<i>Rhoicosphenia curvata</i>	2	4		
<i>Rhopalodia gibberula</i>	--	1		
<i>Stephanodiscus Hantzschii</i>	4	4		
<i>Surirella ovata</i>	2	2		
<i>Synedra ulna</i>	2	2		
<i>Tabellaria fenestrata</i>	5	9		
Chrysophyceae				
<i>Mallomonas akrokomos</i>	20	28		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	7	24		
<i>Cryptomonas</i> sp.	9	6		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	1	--		
<i>Aphanizomenon flos-aquae</i>	6	12		
Immature cyanophyta trichome	9	7		
<i>Merismopedia tenuissima</i>	--	16		
<i>Oscillatoria</i> sp.	1	1		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Cymmodinium</i> sp.	2	--		
Miscellaneous flagellates	171	145		
TOTAL	478	526		
			TOTAL	747

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1245 hr)	June 6, 1980 (0045 hr)	Taxa	June 12, 1980 (1020 hr)
Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE			Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Arkilistrodesmus falcatius</i>	1	2	<i>Arkilistrodesmus falcatius</i>	1
<i>Carteria</i> sp.	2	11	<i>Scenedesmus quadricauda</i>	4
<i>Crucigenia tetrapedia</i>	2	—	<i>Schroederia setigera</i>	3
<i>Dictyosphaerium pulchellum</i>	—	16	<i>Selenastrum minutum</i>	3
<i>Eudorina elegans</i>	—	16	<i>Tetrastrum staurogeniaeforme</i>	1
<i>Scenedesmus dimorphus</i>	4	—		
<i>S. opoliensis</i>	4	8	CHRYSTOPHYTA	
<i>S. quadricauda</i>	—	2	Bacillariophyceae (diatoms)	
<i>Schroederia setigera</i>	4	3	<i>Achnanthes olerei</i>	1
<i>Selenastrum minutum</i>	1	—	<i>A. lanceolata</i>	1
<i>Tetrastrum minutum</i>	1	—	<i>A. minutissima</i>	10
<i>Tetrastrum staurogeniaeforme</i>	1	1	<i>Asterionella formosa</i>	13
<i>Ulothrix</i> sp.	2	1	<i>Cocconeis placentula</i>	4
CHRYSTOPHYTA			<i>Cyclotella Meneghiniana</i>	6
Bacillariophyceae (diatoms)			<i>Cymbella cistula</i>	28
<i>Achnanthes lanceolata</i>	1	2	<i>C. minuta</i>	7
<i>A. minutissima</i>	15	6	<i>Diatoma hiemale</i>	1
<i>Amphora ovalis</i>	2	—	<i>D. vulgare</i>	7
<i>Asterionella formosa</i>	7	4	<i>Fragilaria constrictuena</i>	198
<i>Caloneis amphishaena</i>	1	—	<i>F. vaucheriae</i>	3
<i>Cocconeis placentula</i>	1	3	<i>Gomphonema herculeana</i>	3
<i>Cocconeis discus</i>	2	1	<i>Hantzschia amara</i>	1
<i>Cyclotella Bodanica</i>	1	1	<i>Melosira granulata</i>	10
<i>C. Meneghiniana</i>	5	5	<i>M. varians</i>	6
<i>Cymbella cistula</i>	5	9	<i>Meridion circulare</i>	1
<i>C. mexicana</i>	1	—	<i>Navicula capitata</i>	3
<i>C. minuta</i>	33	16	<i>N. heufleri</i>	1
<i>C. sinuata</i>	1	—	<i>N. salinarum</i>	13
<i>Diatoma vulgare</i>	2	2	<i>N. tripunctata</i>	3
<i>Epithemia sorax</i>	1	—	<i>N. viridula</i>	12
<i>E. turgida</i>	1	—	<i>Nitzschia acicularis</i>	3
<i>Eunothia</i> sp.	1	—	<i>N. amphibia</i>	6
<i>Fragilaria constrictuena</i>	69	130	<i>N. dissipata</i>	9
<i>F. crotonensis</i>	11	—	<i>N. palea</i>	17
<i>F. vaucheriae</i>	2	3	<i>N. sublinearis</i>	1
<i>Gomphonema herculeana</i>	2	1	<i>N. sp.</i>	1
<i>Gomphonema constrictum</i>	2	2	<i>Rhoicosphenia curvata</i>	3
<i>G. parvulum</i>	1	1	<i>Synedra ulna</i>	3
<i>Hantzschia amara</i>	1	1	<i>Tabellaria fenestrata</i>	16
<i>Melosira granulata</i>	3	4	Chrysophyceae	
<i>M. italica</i>	8	—	Chrysophyta flagellates	3
<i>M. varians</i>	2	1	<i>Dinobryon sertularia</i>	3
<i>Meridion circulare</i>	1	—	CRYPTOPHYTA (cryptomonads)	
<i>Navicula graciloides</i>	2	—	Cryptophyceae	
<i>N. heufleri</i>	2	1	<i>Chroomonas</i> sp.	3
<i>N. salinarum</i>	10	8	<i>Cryptomonas</i> sp.	7
<i>N. tripunctata</i>	3	4	CYANOPHYTA (blue-green algae)	
<i>N. vanheurnkii</i>	—	1	Myxophyceae	
<i>N. viridula</i>	5	9	<i>Oscillatoria</i> sp.	6
<i>Nitzschia acicularis</i>	2	3	Miscellaneous flagellates	185
<i>N. amphibia</i>	—	3		
<i>N. capitata</i>	—	1		
<i>N. dissipata</i>	8	2		
<i>N. gracilis</i>	2	1		
<i>N. linearis</i>	1	—		
<i>N. palea</i>	10	8		
<i>N. tryblionella</i>	—	1		
<i>N. sp.</i>	2	5		
<i>Rhoicosphenia curvata</i>	2	—		
<i>Stephanodiscus Hantzschii</i>	2	2		
<i>Surirella ovata</i>	2	1		
<i>Synedra ulna</i>	2	3		
<i>Tabellaria fenestrata</i>	10	16		
Chrysophyceae				
<i>Mallomonas akrokomos</i>	15	16		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	4	6		
<i>Cryptomonas</i> sp.	5	10		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Aphanizomenon flos-aquae</i>	10	11		
Immature cyanophyta trichome	4	3		
<i>Oscillatoria</i> sp.	1	—		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Gymnodinium</i> sp.	2	—		
Miscellaneous flagellates	72	149		
TOTAL	382	516		
			TOTAL	610

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1200 hr)	June 6, 1980 (0010 hr)	Taxa	June 12, 1980 (1220 hr)
Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH			Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Arkilistrodesmus falcatus</i>	1	—	<i>Pediastrum tetras</i>	8
<i>Carteria</i> sp.	17	5	<i>Scenedesmus dimorphus</i>	8
<i>Oocystis</i> sp.	4	3	<i>S. quadricauda</i>	4
<i>Pediastrum Boryanum</i>	24	—	<i>Schroederia setigera</i>	5
<i>P. tetras</i>	—	4	<i>Tetrastrum staurogeniaeforme</i>	2
<i>Schroederia setigera</i>	4	1	<i>Zygnema</i> sp.	2
<i>Tetrastrum staurogeniaeforme</i>	2	—		
<i>Ulothrix</i> sp.	—	2	CHRYSTOPHYTA	
CHRYSTOPHYTA			Bacillariophyceae (diatoms)	
Bacillariophyceae (diatoms)			<i>Achnanthes lanceolata</i>	2
<i>Achnanthes lanceolata</i>	5	—	<i>A. minutissima</i>	3
<i>A. minutissima</i>	28	8	<i>Asterionella formosa</i>	6
<i>Amphora ovalis</i>	3	2	<i>Cocconeis placentula</i>	6
<i>Asterionella formosa</i>	—	7	<i>Coccinodiscus</i> sp.	3
<i>Cocconeis placentula</i>	1	2	<i>Cyclotella Bodanica</i>	2
<i>Cocconodiscus</i> sp.	1	—	<i>C. Meneghiniana</i>	14
<i>Cyclotella Meneghiniana</i>	3	3	<i>Cymbella cistula</i>	9
<i>Cymbella cistula</i>	13	6	<i>C. minuta</i>	24
<i>C. mexicana</i>	1	—	<i>C. sinuata</i>	3
<i>C. minuta</i>	45	26	<i>Diatoma vulgare</i>	9
<i>C. sinuata</i>	1	—	<i>Fragilaria construens</i>	171
<i>Diatoma vulgare</i>	—	5	<i>F. vaucheriae</i>	26
<i>Epithemia turgida</i>	1	—	<i>Gomphonema herculeana</i>	9
<i>Fragilaria construens</i>	180	132	<i>Melosira granulata</i>	20
<i>F. vaucheriae</i>	1	—	<i>M. varians</i>	21
<i>Gomphonema herculeana</i>	—	1	<i>Navicula decussis</i>	2
<i>Gomphonema constrictum</i>	1	3	<i>N. salinarum</i>	6
<i>Hantzschia arvens</i>	—	1	<i>N. tripunctata</i>	6
<i>Melosira granulata</i>	6	—	<i>N. viridula</i>	15
<i>M. italica</i>	8	—	<i>Nitzschia amphibia</i>	5
<i>M. varians</i>	6	—	<i>N. dissipata</i>	14
<i>Navicula graciloides</i>	1	1	<i>N. linearis</i>	2
<i>N. heufleri</i>	6	1	<i>N. palea</i>	24
<i>N. pupula</i>	1	—	<i>N. sublinearis</i>	2
<i>N. rhynchocephala</i>	—	1	<i>N. sp.</i>	5
<i>N. salinarum</i>	6	12	<i>Rhoicosphenia curvata</i>	5
<i>N. vanheurckii</i>	1	—	<i>Synedra ulna</i>	5
<i>N. viridula</i>	10	13	Chrysophyceae	
<i>Nitzschia acicularis</i>	5	3	Chrysophyta flagellates	3
<i>N. capitella</i>	4	—	<i>Dinobryon sertularia</i>	3
<i>N. communis</i>	3	—	CRYPTOPHYTA (cryptomonads)	
<i>N. dissipata</i>	13	15	Cryptophyceae	
<i>N. filiformis</i>	1	—	<i>Chroomonas</i> sp.	2
<i>N. gracilis</i>	3	5	<i>Cryptomonas</i> sp.	5
<i>N. linearis</i>	—	1	CYANOPHYTA (blue-green algae)	
<i>N. palea</i>	4	14	Myxophyceae	
<i>N. sublinearis</i>	1	—	<i>Oscillatoria</i> sp.	3
<i>N. sp.</i>	6	4	PYRRHOPHYTA (fire algae)	
<i>Rhoicosphenia curvata</i>	4	3	Dinophyceae	
<i>Stephanodiscus Hantzschii</i>	9	5	<i>Gymnodinium</i> sp.	2
<i>Surirella ovata</i>	4	7	Miscellaneous flagellates	183
<i>Synedra ulna</i>	1	1		
<i>Tabellaria fenestrata</i>	13	9	TOTAL	649
Chrysophyceae				
<i>Mallomonas akrokomos</i>	27	25		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	8	10		
<i>Cryptomonas</i> sp.	6	8		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	1	—		
<i>Aphanizomenon flos-aquae</i>	14	8		
Immature cyanophyta trichome	5	6		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Peridinium</i> sp.	1	—		
Miscellaneous flagellates	152	99		
TOTAL	666	462		

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1205 hr)	June 5, 1980 (2400 hr)	Taxa	June 12, 1980 (0830 hr)
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON			Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Ankistrodesmus falcatus</i>	2	—	<i>Ankistrodesmus falcatus</i>	6
<i>Chlorophyta flagellate</i>	4	—	<i>Pediastrum tetras</i>	16
<i>Oocystis</i> sp.	12	—	<i>Soenedesmus quadricauda</i>	8
<i>Pediastrum tetras</i>	4	8		
<i>Soenedesmus opoliensis</i>	—	—	CHRYSTOPHYTA	
<i>S. quadricauda</i>	—	8	Bacillariophyceae (diatoms)	
<i>Schroederia setigera</i>	2	3	<i>Achnanthes lanceolata</i>	4
<i>Tetraedron minimum</i>	1	—	<i>A. minutissima</i>	19
<i>Tetrastrum staurogeniaeforme</i>	—	2	<i>Amphora ovalis</i>	2
<i>Treubaria setigerum</i>	1	—	<i>Asterionella formosa</i>	21
CHRYSTOPHYTA			<i>Cocconeis placentula</i>	9
Bacillariophyceae (diatoms)			<i>Cocconeis discus</i> sp.	2
<i>Achnanthes curta</i>	2	5	<i>Cyclotella bodanica</i>	2
<i>A. lanceolata</i>	2	2	<i>C. Meneghiniana</i>	32
<i>A. minutissima</i>	15	18	<i>Cymbella cistula</i>	7
<i>Amphora ovalis</i>	1	1	<i>C. minuta</i>	13
<i>Asterionella formosa</i>	6	2	<i>Diatoma vulgare</i>	7
<i>Cocconeis placentula</i>	1	2	<i>Diploneis pseudoralis</i>	2
<i>Cocconeis discus</i> sp.	1	1	<i>Fragilaria construens</i>	344
<i>Cyclotella bodanica</i>	—	2	<i>F. vaucheriae</i>	9
<i>C. Meneghiniana</i>	5	2	<i>Gomphonema herculeana</i>	2
<i>Cymbella cistula</i>	2	4	<i>Gomphonema constrictum</i>	4
<i>C. mexicana</i>	1	—	<i>G. sp.</i>	2
<i>C. minuta</i>	20	14	<i>Melosira granulata</i>	7
<i>Diatoma vulgare</i>	2	1	<i>M. italica</i>	2
<i>Fragilaria construens</i>	51	94	<i>M. varians</i>	—
<i>F. crotoneis</i>	—	8	<i>Navicula graciloides</i>	1
<i>F. vaucheriae</i>	2	1	<i>N. heufleri</i>	8
<i>Gomphonema herculeana</i>	2	1	<i>N. pupula</i>	1
<i>Gomphonema constrictum</i>	2	2	<i>N. salinarum</i>	14
<i>G. sp.</i>	1	—	<i>N. tripunctata</i>	2
<i>Melosira granulata</i>	3	7	<i>N. varheurnkii</i>	7
<i>M. italica</i>	2	2	<i>N. viridula</i>	2
<i>M. varians</i>	—	—	<i>Nitzschia acicularis</i>	1
<i>Navicula graciloides</i>	4	1	<i>N. amphibia</i>	—
<i>N. heufleri</i>	1	1	<i>N. dissipata</i>	6
<i>N. pupula</i>	1	1	<i>N. gracilis</i>	1
<i>N. salinarum</i>	9	14	<i>N. linearis</i>	2
<i>N. tripunctata</i>	2	2	<i>N. palea</i>	10
<i>N. varheurnkii</i>	—	7	<i>N. sp.</i>	6
<i>N. viridula</i>	7	7	<i>Rhizosolenia curvata</i>	1
<i>Nitzschia acicularis</i>	2	1	<i>Sartirella angustata</i>	1
<i>N. amphibia</i>	1	—	<i>S. ovata</i>	1
<i>N. dissipata</i>	6	13	<i>Synedra ulna</i>	—
<i>N. gracilis</i>	1	2	<i>Stephanodiscus Hantzschii</i>	4
<i>N. linearis</i>	2	1	<i>Tabellaria fenestrata</i>	16
<i>N. palea</i>	12	10	Chrysophyceae	
<i>N. sp.</i>	12	6	<i>Mallomonas akraukomae</i>	28
<i>Rhizosolenia curvata</i>	2	1	<i>M. sp.</i>	1
<i>Sartirella angustata</i>	—	1	CRYPTOPHYTA (cryptomonads)	
<i>S. ovata</i>	3	1	Cryptophyceae	
<i>Synedra ulna</i>	1	—	<i>Chroomonas</i> sp.	3
<i>Stephanodiscus Hantzschii</i>	3	4	<i>Cryptomonas</i> sp.	3
<i>Tabellaria fenestrata</i>	5	16	CYANOPHYTA (blue-green algae)	
Chrysophyceae			Myxophyceae	
<i>Mallomonas akraukomae</i>	28	21	<i>Aphanizomenon flos-aquae</i>	8
<i>M. sp.</i>	—	1	<i>Dactylococcopsis Smithii</i>	—
CRYPTOPHYTA (cryptomonads)			<i>Immature cyanophyta trichome</i>	—
Cryptophyceae			<i>Oscillatoria</i> sp.	2
<i>Chroomonas</i> sp.	3	7	Miscellaneous flagellates	78
<i>Cryptomonas</i> sp.	9	3		100
CYANOPHYTA (blue-green algae)			TOTAL	815
Myxophyceae				
<i>Aphanizomenon flos-aquae</i>	8	9		
<i>Dactylococcopsis Smithii</i>	—	1		
<i>Immature cyanophyta trichome</i>	—	1		
<i>Oscillatoria</i> sp.	—	2		
Miscellaneous flagellates	78	100		
TOTAL	348	426		

TABLE 7.—Phytoplankton taxa and cell counts, June 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1200 hr)	June 5, 1980 (2355 hr)	Taxa	June 12, 1980 (1030 hr)
Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON			Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Arkilistrodesmus falcatus</i>	2	1	<i>Arkilistrodesmus falcatus</i>	1
<i>Carteria</i> sp.	3	—	<i>Pediastrum tetras</i>	4
<i>Closteriopsis longissima</i>	1	—	<i>Scenedesmus opoliensis</i>	30
<i>Coelastrum microsporum</i>	—	8	<i>Schroederia setigera</i>	3
<i>Gloeocystis planctonica</i>	—	4	<i>Tetrastrum staurogeniaeforme</i>	6
<i>Scenedesmus opoliensis</i>	4	8		
<i>Schroederia setigera</i>	8	1	CHRYSTOPHYTA	
<i>Tetraedron minimum</i>	1	—	Bacillariophyceae (diatoms)	
CHRYSTOPHYTA			<i>Achnanthes lanceolata</i>	4
Bacillariophyceae (diatoms)			<i>A. minutissima</i>	3
<i>Achnanthes curta</i>	1	—	<i>Asterionella formosa</i>	3
<i>A. lanceolata</i>	3	1	<i>Cocconeis placentula</i>	6
<i>A. minutissima</i>	6	5	<i>Coccinodiscus</i> sp.	3
<i>Amphora ovalis</i>	—	1	<i>Cyclotella Meneghiniana</i>	17
<i>Asterionella formosa</i>	5	2	<i>Cymbella oistula</i>	20
<i>Cocconeis placentula</i>	2	2	<i>C. minuta</i>	7
<i>Cyclotella bodanica</i>	1	1	<i>C. sinuata</i>	1
<i>C. Meneghiniana</i>	7	5	<i>Diatoma vulgare</i>	4
<i>Cymbella oistula</i>	4	—	<i>Fragilaria construens</i>	246
<i>C. minuta</i>	13	19	<i>F. vaucheriae</i>	4
<i>C. sinuata</i>	1	—	<i>Gomphonema herculeana</i>	3
<i>Diatoma vulgare</i>	4	6	<i>Hantzschia arcus</i>	4
<i>Epithemia soror</i>	—	1	<i>Melosira granulata</i>	3
<i>E. turgida</i>	2	—	<i>Meridion circulare</i>	3
<i>Fragilaria construens</i>	112	96	<i>Navicula heuffleri</i>	9
<i>F. vaucheriae</i>	5	2	<i>N. pupula</i>	1
<i>Gomphonema herculeana</i>	4	4	<i>N. salinarum</i>	12
<i>Gomphonema constrictum</i>	1	1	<i>N. viridula</i>	10
<i>Hantzschia arcus</i>	—	2	<i>Nitzschia acicularis</i>	4
<i>Melosira granulata</i>	5	7	<i>N. amphibia</i>	1
<i>M. italica</i>	2	—	<i>N. communis</i>	1
<i>M. varians</i>	3	2	<i>N. dissipata</i>	12
<i>Navicula heuffleri</i>	1	6	<i>N. palea</i>	16
<i>N. pupula</i>	1	—	<i>N. sp.</i>	3
<i>N. salinarum</i>	14	12	<i>Rhoicosphenia curvata</i>	1
<i>N. viridula</i>	12	15	<i>Surirella ovata</i>	6
<i>Nitzschia acicularis</i>	6	2	<i>Synedra delicatissima</i>	1
<i>N. amphibia</i>	1	—	<i>S. ulna</i>	3
<i>N. dissipata</i>	4	7	Chrysophyceae	
<i>N. gracilis</i>	—	2	<i>Dinobryon sertularia</i>	6
<i>N. linearis</i>	—	2	CRYPTOPHYTA (cryptomonads)	
<i>N. palea</i>	16	13	Cryptophyceae	
<i>N. sp.</i>	7	4	<i>Chroomonas</i> sp.	1
<i>Rhopalodia gibba</i>	—	2	<i>Cryptomonas</i> sp.	7
<i>R. gibberula</i>	1	1	Miscellaneous flagellates	140
<i>Stephanodiscus Hantzschii</i>	9	2		
<i>Surirella angustata</i>	—	1		
<i>S. ovata</i>	2	1		
<i>Synedra ulna</i>	2	3		
<i>Tabellaria fenestrata</i>	15	2		
Chrysophyceae				
<i>Mallomonas akrokomos</i>	25	20		
<i>M. sp.</i>	—	1		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	6	2		
<i>Cryptomonas</i> sp.	11	1		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	—	2		
<i>Aphanizomenon flos-aquae</i>	6	9		
Immature cyanophyta trichome	—	1		
<i>Oscillatoria</i> sp.	1	—		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Gymnodinium</i> sp.	2	—		
<i>Peridinium</i> sp.	1	—		
Miscellaneous flagellates	99	70		
TOTAL	442	360		

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1300 hr)	June 6, 1980 (0045 hr)	Taxa	June 12, 1980 (1200 hr)
Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM			Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Ankistrodesmus falcatus</i>	1	4	<i>Pediastrum tetras</i>	8
<i>Carteria</i> sp.	1	---	<i>Scenedesmus dimorphus</i>	4
<i>Oocystis</i> sp.	8	1	<i>S. opoliensis</i>	2
<i>Scenedesmus opoliensis</i>	4	4	<i>S. quadricauda</i>	4
<i>S. quadricauda</i>	2	2	<i>Schroederia setigera</i>	4
<i>Schroederia setigera</i>	2	2	<i>Ulothrix</i> sp.	1
<i>Tetrasdron minimum</i>	1	1		
<i>Tetrasdron staurogeniaeforme</i>	---	1	CHRYSTOPHYTA	
<i>Ulothrix</i> sp.	---	1	Bacillariophyceae (diatoms)	
CHRYSTOPHYTA			<i>Achnanthes lanceolata</i>	1
Bacillariophyceae (diatoms)			<i>A. minutissima</i>	2
<i>Achnanthes curta</i>	1	1	<i>A. sp.</i>	1
<i>A. minutissima</i>	---	23	<i>Amphora ovalis</i>	1
<i>Amphora ovalis</i>	---	1	<i>Asterionella formosa</i>	9
<i>Asterionella formosa</i>	1	2	<i>Cocconeis placentula</i>	1
<i>Cocconeis placentula</i>	1	2	<i>Cyclotella bodanica</i>	1
<i>Cyclotella bodanica</i>	1	1	<i>C. Kuetzingiana</i>	4
<i>C. Kuetzingiana</i>	1	---	<i>C. Meneghiniana</i>	22
<i>C. Meneghiniana</i>	4	1	<i>Cymbella cistula</i>	6
<i>Cymbella cistula</i>	3	4	<i>C. minuta</i>	6
<i>C. minuta</i>	12	17	<i>Diatoma vulgare</i>	1
<i>Diatoma vulgare</i>	84	1	<i>Epithemia sorax</i>	165
<i>Fragilaria construens</i>	11	---	<i>Fragilaria construens</i>	4
<i>F. construens</i>	1	2	<i>Gomphonema herculeana</i>	1
<i>Gomphonema herculeana</i>	1	1	<i>Hantzschia arcus</i>	8
<i>Hantzschia arcus</i>	1	3	<i>Melosira granulata</i>	1
<i>Melosira granulata</i>	---	3	<i>M. varians</i>	2
<i>M. italica</i>	3	3	<i>Navicula heufleri</i>	1
<i>M. varians</i>	3	5	<i>N. mutica</i>	7
<i>Navicula heufleri</i>	3	5	<i>N. salinarum</i>	1
<i>N. mutica</i>	2	---	<i>N. tripunctata</i>	17
<i>N. pupula</i>	14	17	<i>N. viridula</i>	5
<i>N. salinarum</i>	---	1	<i>Nitzschia acicularis</i>	1
<i>N. tripunctata</i>	1	---	<i>N. amphibia</i>	6
<i>N. vanheurnskii</i>	12	9	<i>N. palea</i>	24
<i>N. viridula</i>	1	1	<i>N. sublinearis</i>	1
<i>Nitzschia acicularis</i>	1	---	<i>N. sp.</i>	2
<i>N. amphibia</i>	7	3	<i>Rhoicosphenia curvata</i>	5
<i>N. dissipata</i>	2	1	<i>Stephanodiscus Hantzschii</i>	4
<i>N. gracilis</i>	2	---	<i>Surirella ovata</i>	3
<i>N. linearis</i>	9	7	<i>Synedra ulna</i>	1
<i>N. palea</i>	3	3	<i>Tabellaria fenestrata</i>	1
<i>N. sp.</i>	1	1	Chrysophyceae	
<i>Rhoicosphenia curvata</i>	3	1	Chrysophyta flagellates	1
<i>Stephanodiscus Hantzschii</i>	2	6	CRYPTOPHYTA (cryptomonads)	
<i>Surirella ovata</i>	1	2	Cryptophyceae	
<i>Synedra ulna</i>	4	2	<i>Chroomonas</i> sp.	9
<i>Tabellaria fenestrata</i>	21	9	<i>Cryptomonas</i> sp.	12
Chrysophyceae	1	---	PYRRHOPHYTA (fire algae)	
<i>Mallomonas akrokomos</i>	6	4	Dinophyceae	
<i>M. sp.</i>	4	2	<i>Gymnodinium</i> sp.	1
CRYPTOPHYTA (cryptomonads)			Miscellaneous flagellates	58
Cryptophyceae				
<i>Chroomonas</i> sp.	6	4		
<i>Cryptomonas</i> sp.	4	2		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	1	1		
<i>Aphanizomenon flos-aquae</i>	4	8		
Immature cyanophyta trichome	1	---		
<i>Oscillatoria</i> sp.	---	1		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Peridinium</i> sp.	1	---		
Miscellaneous flagellates	73	63		
TOTAL	331	311		
			TOTAL	427

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1205 hr)	June 6, 1980 (0010 hr)	Taxa	June 19, 1980 (0930 hr)
Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY			Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Ankistrodesmus falcatus</i>	2	1	<i>Coelastrum microsporum</i>	18
<i>Carteria</i> sp.	2	1	<i>Elakatothrix viridis</i>	4
<i>Coelastrum microsporum</i>	8	8	<i>Pediastrum tetras</i>	8
<i>Crucigenia tetrapedia</i>	3	--	<i>Scenedesmus dimorphus</i>	4
<i>Gloeocystis placenticola</i>	--	4	<i>S. opoliensis</i>	12
<i>Oocystis</i> sp.	1	1	<i>S. quadricauda</i>	28
<i>Scenedesmus opoliensis</i>	8	12	<i>Schroederia setigera</i>	8
<i>S. quadricauda</i>	10	4	<i>Tetradon minimum</i>	9
<i>Schroederia setigera</i>	2	3	<i>T. trigonum</i>	1
<i>Sphaerocystis schroeteri</i>	16	--	<i>Tetrastrum staurogeniaeforme</i>	18
<i>Tetrastrum staurogeniaeforme</i>	3	2	CHRYSOPHYTA	
CHRYSOPHYTA			Bacillariophyceae (diatoms)	
Bacillariophyceae (diatoms)			<i>Achnanthes lanceolata</i>	4
<i>Achnanthes curta</i>	2	1	<i>A. minutissima</i>	2
<i>A. lanceolata</i>	--	2	<i>Amphora ovalis</i>	2
<i>A. minutissima</i>	6	2	<i>Asterionella formosa</i>	5
<i>Asterionella formosa</i>	6	13	<i>Cocconeis placentula</i>	15
<i>Cocconeis placentula</i>	3	3	<i>Coccinodiscus</i> sp.	2
<i>Coccinodiscus</i> sp.	1	--	<i>Cyclotella Kuetsingiana</i>	1
<i>Cyclotella bodanica</i>	2	1	<i>C. Meneghiniana</i>	55
<i>C. Kuetsingiana</i>	1	--	<i>Cymbella cistula</i>	4
<i>C. Meneghiniana</i>	3	7	<i>C. minuta</i>	5
<i>Cymbella cistula</i>	1	3	<i>Diatoma vulgare</i>	5
<i>C. minuta</i>	18	19	<i>Fragilaria construens</i>	25
<i>Diatoma vulgare</i>	6	4	<i>F. vaucheriae</i>	3
<i>Fragilaria construens</i>	12	25	<i>Gammaria arcus</i>	2
<i>F. vaucheriae</i>	2	--	<i>Melosira granulata</i>	3
<i>Gomphonema herculeana</i>	1	3	<i>M. varians</i>	6
<i>Gomphonema constrictum</i>	1	--	<i>Navicula capitata</i>	1
<i>Gammaria arcus</i>	2	1	<i>N. salinarum</i>	11
<i>Melosira granulata</i>	1	1	<i>N. tripunctata</i>	1
<i>M. italica</i>	10	--	<i>N. viridula</i>	14
<i>M. varians</i>	1	2	<i>Nitzschia aciculavis</i>	16
<i>Meridion circulare</i>	--	1	<i>N. amphibia</i>	2
<i>Navicula heufleri</i>	1	3	<i>N. communis</i>	1
<i>N. mutica</i>	1	1	<i>N. dissipata</i>	10
<i>MN. pupula</i>	1	--	<i>N. linearis</i>	1
<i>N. salinarum</i>	30	21	<i>N. palea</i>	29
<i>N. tripunctata</i>	--	1	<i>N. sp.</i>	5
<i>N. viridula</i>	13	17	<i>Rhoicosphenia curvata</i>	1
<i>Nitzschia aciculavis</i>	2	1	<i>Stephanodiscus Hantzschii</i>	3
<i>N. amphibia</i>	1	--	<i>Surirella ovata</i>	4
<i>N. dissipata</i>	7	5	<i>Synedra ulna</i>	3
<i>N. gracilis</i>	--	2	Chrysophyceae	
<i>N. linearis</i>	2	3	<i>Mallomonas</i> sp.	1
<i>N. palea</i>	20	7	CRYPTOPHYTA (cryptomonads)	
<i>N. sublinearis</i>	1	--	Cryptophyceae	
<i>N. tryblionella</i>	--	2	<i>Chroomonas</i> sp.	11
<i>N. sp.</i>	6	3	<i>Cryptomonas</i> sp.	10
<i>Pinnularia</i> sp.	1	--	CYANOPHYTA (blue-green algae)	
<i>Rhoicosphenia curvata</i>	--	1	Myxophyceae	
<i>Surirella ovata</i>	6	6	<i>Oscillatoria</i> sp.	1
<i>Synedra ulna</i>	2	2	Miscellaneous flagellates	102
<i>Stephanodiscus Hantzschii</i>	9	3		
<i>Tabellaria fenestrata</i>	2	8		
Chrysophyceae				
<i>Mallomonas akrokomos</i>	19	23		
<i>M. sp.</i>	1	1		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	17	22		
<i>Cryptomonas</i> sp.	8	5		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	2	1		
<i>Aphanizomenon flos-aquae</i>	10	10		
<i>Dactylococopsis Smithii</i>	--	1		
<i>Oscillatoria</i> sp.	--	1		
Miscellaneous flagellates	80	74		
TOTAL	377	348		

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1230 hr)	Taxa	June 19, 1980 (1100 hr)
Site 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY		Site 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY	
CHLOROPHYTA (green algae)		CHLOROPHYTA (green algae)	
Chlorophyceae		Chlorophyceae	
<i>Carteria</i> sp.	6	<i>Arkiastrodesmus falcatius</i>	5
<i>Elakatothrix gelatinosa</i>	6	<i>Closteriopsis longissima</i>	2
<i>Pediastrum Boryanum</i>	8	<i>Coelastrum microcoporum</i>	64
<i>P. tetras</i>	4	<i>Elakatothrix viridus</i>	74
<i>Scenedesmus dimorphus</i>	4	<i>Gonium pertorale</i>	32
<i>S. opoliensis</i>	4	<i>Pediastrum tetras</i>	32
<i>S. quadricauda</i>	2	<i>Scenedesmus dimorphus</i>	16
<i>S. sp.</i>	4	<i>S. opoliensis</i>	24
<i>Schroederia setigera</i>	3	<i>S. quadricauda</i>	36
<i>Tetrastrum staurogeniaeforme</i>	1	<i>S. sp.</i>	8
CHRYSOPHYTA		<i>Schroederia setigera</i>	40
Bacillariophyceae (diatoms)		<i>Tetrastrum staurogeniaeforme</i>	11
<i>Achnanthes lanceolata</i>	1	CHRYSOPHYTA	
<i>A. minutissima</i>	5	Bacillariophyceae (diatoms)	
<i>Asterionella formosa</i>	13	<i>Achnanthes minutissima</i>	7
<i>Cyclotella Meneghiana</i>	14	<i>Amphora ovalis</i>	4
<i>Cymbella minuta</i>	3	<i>Asterionella formosa</i>	63
<i>C. sinuata</i>	1	<i>Cocconeis placentula</i>	11
<i>Diatoma vulgare</i>	2	<i>Cyclotella Kuetsingiana</i>	7
<i>Fragilaria construens</i>	93	<i>C. Meneghiniana</i>	238
<i>F. vaucheriae</i>	1	<i>Cymbella oistula</i>	5
<i>Gomphonema truncatum</i>	2	<i>C. minuta</i>	2
<i>Melosira granulata</i>	5	<i>Fragilaria construens</i>	207
<i>M. italica</i>	10	<i>F. vaucheriae</i>	7
<i>Navicula capitata</i>	1	<i>Gomphonema parvulum</i>	2
<i>N. pupula</i>	1	<i>Melosira granulata</i>	12
<i>N. salinarum</i>	20	<i>M. varians</i>	20
<i>N. viridula</i>	9	<i>Navicula salinarum</i>	11
<i>Nitzschia acicularis</i>	3	<i>N. viridula</i>	7
<i>N. amphibia</i>	7	<i>Nitzschia acicularis</i>	22
<i>N. dissipata</i>	5	<i>N. amphibia</i>	5
<i>N. gracilis</i>	1	<i>N. dissipata</i>	7
<i>N. palea</i>	6	<i>N. linearis</i>	2
<i>N. sp.</i>	13	<i>N. palea</i>	16
<i>Rhoicosphenia curvata</i>	2	<i>N. tryblionella</i>	4
<i>Stephanodiscus Hantzschii</i>	39	<i>N. sp.</i>	2
<i>Surirella ovata</i>	2	<i>Rhoicosphenia curvata</i>	2
<i>Tabellaria fenestrata</i>	6	<i>Stephanodiscus Hantzschii</i>	27
Chrysophyceae		<i>Surirella ovata</i>	5
<i>Mallomonas akrokomos</i>	55	<i>Synedra ulna</i>	4
CRYPTOPHYTHA (cryptomonads)		CRYPTOPHYTHA (cryptomonads)	
Cryptophyceae		Cryptophyceae	
<i>Chroomonas</i> sp.	55	<i>Chroomonas</i> sp.	43
<i>Cryptomonas</i> sp.	9	<i>Cryptomonas</i> sp.	51
CYANOPHYTA (blue-green algae)		CYANOPHYTA (blue-green algae)	
Myxophyceae		Myxophyceae	
<i>Anabaena</i> sp.	1	<i>Merismopedia tenuissima</i>	64
<i>Aphanizomenon flos-aquae</i>	1	Miscellaneous flagellates	269
<i>Dactylooscopis Smithii</i>	1		
PYRRHOPHYTA (fire algae)			
Dinophyceae			
<i>Peridinium</i> sp.	1		
Miscellaneous flagellates	152		
TOTAL	582	TOTAL	1470

TABLE 7.--Phytoplankton taxa and cell counts, June 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	June 5, 1980 (1345 hr)	June 6, 1980 (0335 hr)	Taxa	June 19, 1980 (1200 hr)
Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR			Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR	
CHLOROPHYTA (green algae)			CHLOROPHYTA (green algae)	
Chlorophyceae			Chlorophyceae	
<i>Arkestrodesmus falcatus</i>	4	6	<i>Arkestrodesmus falcatus</i>	20
<i>Dietyosphaerium pulchellum</i>	--	8	<i>Chodatella quadriseta</i>	22
<i>Oocystis</i> sp.	8	--	<i>Elakatothrix viridis</i>	39
<i>Pediastrum Boryanum</i>	--	64	<i>Scenedesmus abundans</i>	56
<i>P. tetras</i>	--	16	<i>S. dimorphus</i>	12
<i>Scenedesmus opoliensis</i>	24	--	<i>S. opoliensis</i>	48
<i>S. quadricauda</i>	4	8	<i>S. quadricauda</i>	36
<i>S. sp.</i>	8	36	<i>Schroederia setigera</i>	53
<i>Schroederia setigera</i>	8	9	<i>Tetradon regulare</i>	3
<i>Sphaerocystis Schroeteri</i>	16	--	<i>Tetradon etaurogeniaeforme</i>	25
<i>Tetradon etaurogeniaeforme</i>	6	--		
CHRYSTOPHYTA			CHRYSTOPHYTA	
Bacillariophyceae (diatoms)			Bacillariophyceae (diatoms)	
<i>Achnanthes curta</i>	8	--	<i>Achnanthes lanceolata</i>	3
<i>A. minutissima</i>	2	4	<i>A. minutissima</i>	6
<i>Asterionella formosa</i>	35	4	<i>A. sp.</i>	3
<i>Cocconeis amphibiaena</i>	25	24	<i>Amphora ovalis</i>	3
<i>Cyclotella bodanica</i>	--	2	<i>Asterionella formosa</i>	48
<i>C. Meneghiniana</i>	23	28	<i>Cocconeis placentula</i>	104
<i>Cymbella minuta</i>	4	13	<i>Cyclotella Kuetsingiana</i>	219
<i>Epithemia turgida</i>	--	2	<i>C. Meneghiniana</i>	278
<i>Fragilaria construens</i>	195	84	<i>Diatoma vulgare</i>	17
<i>Gomphonema herculeana</i>	2	--	<i>Fragilaria construens</i>	104
<i>Gomphonema constrictum</i>	4	11	<i>Gomphonema parvulum</i>	6
<i>G. parvulum</i>	10	--	<i>Melosira varians</i>	8
<i>Melosira granulata</i>	12	4	<i>Navicula heufleri</i>	8
<i>M. varians</i>	4	--	<i>N. salinarum</i>	34
<i>Navicula heufleri</i>	2	2	<i>Nitzschia acicularis</i>	14
<i>N. salinarum</i>	18	17	<i>N. amphibia</i>	3
<i>N. viridula</i>	--	6	<i>N. palea</i>	20
<i>Nitzschia acicularis</i>	12	4	<i>N. tryblionella</i>	3
<i>N. amphibia</i>	4	4	<i>N. sp.</i>	8
<i>N. communis</i>	2	--	<i>Stephanodiscus Hantzschii</i>	460
<i>N. dissipata</i>	2	9	Chrysophyceae	
<i>N. filiformis</i>	2	--	Chrysophyta flagellates	3
<i>N. gracilis</i>	--	6	<i>Dinobryon sertularia</i>	3
<i>N. palea</i>	16	15	CRYPTOPHYTA (cryptomonads)	
<i>N. sublinearis</i>	4	--	Cryptophyceae	
<i>N. tryblionella</i>	2	2	<i>Chroomonas</i> sp.	59
<i>N. sp.</i>	27	28	<i>Cryptomonas</i> sp.	53
<i>Rhoicosphenia curvata</i>	2	6	CYANOPHYTA (blue-green algae)	
<i>Surirella ovata</i>	--	2	Myxophyceae	
<i>Stephanodiscus Hantzschii</i>	117	121	<i>Microcystis incerta</i>	8
<i>Tabellaria fenestrata</i>	2	9	Miscellaneous flagellates	236
Chrysophyceae				
<i>Mallomonas akrokomos</i>	295	126		
<i>M. sp.</i>	2	2		
CRYPTOPHYTA (cryptomonads)				
Cryptophyceae				
<i>Chroomonas</i> sp.	215	87		
<i>Cryptomonas</i> sp.	25	24		
CYANOPHYTA (blue-green algae)				
Myxophyceae				
<i>Anabaena</i> sp.	4	2		
<i>Aphanizomenon flos-aquae</i>	--	4		
<i>Dactylococcopsis Smithii</i>	2	--		
PYRRHOPHYTA (fire algae)				
Dinophyceae				
<i>Gymnodinium</i> sp.	--	2		
<i>Peridinium</i> sp.	--	6		
Miscellaneous flagellates	284	199		
TOTAL	1441	1006		

TABLE 8.--Phytoplankton taxa and cell counts, August 1980

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1155 hr)	(1522 hr)	(1930 hr)	(2325 hr)	(0320 hr)	(0730 hr)	(1120 hr)
Site 13 - TRUCKEE RIVER AT CRYSTAL PEAK PARK AT VERDI							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Arkiastrodemus falcatus</i>	--	1	--	--	--	--	--
<i>Coelastrum microsporum</i>	4	--	--	--	--	--	--
<i>Eudorina elegans</i>	--	--	--	--	--	5	--
<i>Scenedesmus denticulatus</i>	--	4	--	--	--	3	2
<i>S. dimorphus</i>	--	--	--	3	--	3	--
<i>S. quadricauda</i>	--	2	--	--	--	--	--
<i>Staurastrum dilatatum</i>	--	--	--	--	--	1	1
<i>Tetraedron minimum</i>	--	--	--	--	1	--	1
<i>Tetrastrum staurogeniaeforme</i>	1	--	--	--	--	--	--
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes curta</i>	1	1	1	1	2	2	1
<i>A. lanceolata</i>	2	1	--	1	1	1	1
<i>A. minutissima</i>	22	23	19	14	27	13	14
<i>Cocconeis placentula</i>	18	23	19	18	7	10	24
<i>Cyclotella bodanica</i>	--	--	--	1	1	1	--
<i>C. Meneghiniana</i>	4	2	1	1	1	1	2
<i>C. ocellata</i>	--	1	1	--	1	1	--
<i>C. stelligera</i>	3	2	2	1	7	2	2
<i>Cymbella cistula</i>	5	4	3	5	2	3	3
<i>C. mexicana</i>	--	--	1	1	--	--	1
<i>C. minuta</i>	9	7	10	11	8	7	5
<i>C. sinuata</i>	2	3	5	1	2	1	1
<i>Diatoma hiemale</i>	--	--	--	1	--	1	--
<i>D. vulgare</i>	1	--	1	5	2	1	2
<i>Epithemia sorex</i>	1	--	--	--	--	--	1
<i>Fragilaria construens</i>	5	4	7	3	1	8	13
<i>F. crotonensis</i>	--	--	--	--	3	--	2
<i>F. vaucheriae</i>	--	--	1	2	1	1	--
<i>Gomphonema acuminatum</i>	1	--	--	--	--	--	--
<i>G. parvulum</i>	--	2	--	1	2	--	--
<i>G. truncatum</i>	2	3	2	1	2	1	2
<i>Gomphonema herculeana</i>	1	1	1	1	--	--	2
<i>Hantzasia arcus</i>	--	1	--	--	--	--	--
<i>Melosira granulata</i>	--	--	--	2	1	1	--
<i>M. italica</i>	--	--	4	4	--	1	--
<i>M. varians</i>	6	2	6	4	2	4	3
<i>Navicula capitata</i>	--	--	--	--	1	--	--
<i>N. cryptocephala</i>	11	4	4	1	3	7	5
<i>N. heuflii</i>	2	2	3	1	2	2	1
<i>N. pupula</i>	--	--	1	1	--	--	--
<i>N. rynchoccephala</i>	1	--	1	1	1	--	1
<i>N. salinarum</i>	19	8	9	7	5	7	12
<i>N. tripunctata</i>	2	1	1	1	1	1	2
<i>N. varheurokii</i>	--	1	1	1	--	1	1
<i>N. viridula</i>	--	--	--	--	--	1	--
<i>Nitzschia acicularis</i>	2	1	--	--	--	1	1
<i>N. amphibia</i>	4	1	--	2	5	1	3
<i>N. communis</i>	1	--	1	--	--	--	--
<i>N. diaspata</i>	6	8	4	4	4	2	4
<i>N. gracilis</i>	--	--	--	--	--	--	1
<i>N. holeatica</i>	--	--	--	--	--	3	--
<i>N. Kuetsingiana</i>	12	4	2	1	3	3	3
<i>N. linearis</i>	4	1	1	2	2	--	1
<i>N. palea</i>	22	5	3	5	4	5	11
<i>N. sublinearis</i>	--	--	--	--	--	1	--
<i>N. sp.</i>	7	4	2	5	1	1	3
<i>Pinnularia sp.</i>	--	--	--	1	--	--	--
<i>Rhoicosphenia curvata</i>	3	2	1	3	2	1	3
<i>Stauroneis sp.</i>	--	--	1	--	--	--	1
<i>Stephanodiscus Hantzschii</i>	2	--	--	2	3	--	1
<i>Surirella angustata</i>	--	--	--	--	1	--	--
<i>S. ovata</i>	1	--	--	--	--	--	--
<i>Synedra rumpens</i>	15	9	6	6	9	6	7
<i>S. ulna</i>	--	1	1	2	--	1	1
<i>Tabellaria fenestrata</i>	11	4	6	7	5	6	7
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas sp.</i>	--	--	--	--	1	--	1
<i>Cryptomonas sp.</i>	--	--	1	1	--	--	1
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Dactyloosphaeria Smithii</i>	--	--	--	--	--	--	1
Immature cyanophyta trichome	--	1	--	--	1	--	--
<i>Oscillatoria sp.</i>	--	--	--	1	--	1	--
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium sp.</i>	1	2	2	3	3	--	5
<i>Peridinium sp.</i>	1	1	3	2	2	2	--
Miscellaneous flagellates	86	53	38	33	96	43	43
TOTAL	301	200	176	175	229	168	203

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1600 hr)	(2015 hr)	(0015 hr)	(0405 hr)	(0815 hr)	(1200 hr)
Site 15 - TRUCKEE RIVER AT MAYBERRY DRIVE							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Closterium</i> sp.	--	--	--	--	--	1	--
<i>Pediastrum tetras</i>	--	--	--	--	--	4	--
<i>Scenedesmus abundans</i>	--	--	--	8	--	--	--
<i>S. denticulatus</i>	--	8	4	--	4	4	8
<i>S. dimorphus</i>	12	--	--	--	12	8	--
<i>S. quadricauda</i>	4	--	--	8	8	--	--
<i>Staurastrum dilatatum</i>	--	--	1	--	--	--	--
<i>Tetraedron minimum</i>	1	--	1	--	1	1	1
<i>Tetrastrum staurongenialeforme</i>	--	--	--	--	1	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes clevei</i>	1	--	--	--	--	--	--
<i>A. curta</i>	1	1	2	1	1	1	1
<i>A. lanceolata</i>	2	1	1	1	1	1	--
<i>A. minutissima</i>	7	10	14	14	20	15	17
<i>Caloneis amphibiaena</i>	--	1	--	--	--	--	--
<i>Cocconeis placentula</i>	15	28	21	13	13	21	15
<i>Coscinodiscus</i> sp.	--	--	--	--	1	1	--
<i>Cyclotella bodanica</i>	1	--	--	1	1	1	--
<i>C. Meneghiniana</i>	1	1	1	2	1	1	2
<i>C. ocellata</i>	--	2	1	--	--	2	--
<i>C. stelligera</i>	1	2	2	2	1	1	2
<i>Cymatopleura solea</i>	1	--	--	--	--	--	--
<i>Cymbella cistula</i>	1	2	2	2	2	1	1
<i>C. mesoana</i>	3	2	1	2	10	3	1
<i>C. minuta</i>	7	9	6	11	7	12	13
<i>C. sinuata</i>	2	--	1	3	1	2	1
<i>Diatoma hiemale</i>	1	--	--	--	--	--	--
<i>D. vulgare</i>	--	--	--	--	1	1	--
<i>Diploneis oblongella</i>	1	--	--	--	--	--	--
<i>Epithemia sorex</i>	--	--	--	1	--	1	--
<i>Fragilaria constricta</i>	2	--	2	6	8	19	2
<i>F. crotonensis</i>	--	3	2	--	--	--	--
<i>F. vaucheriae</i>	1	--	1	--	2	--	--
<i>Gomphonema herauleana</i>	1	--	--	--	--	--	--
<i>Gomphonema dichotomum</i>	--	--	--	--	--	--	1
<i>G. parvulum</i>	2	2	--	1	1	3	1
<i>G. truncatum</i>	--	--	2	--	--	2	1
<i>Melosira granulata</i>	1	2	2	--	2	--	2
<i>M. italica</i>	2	5	--	3	3	3	3
<i>M. varians</i>	2	3	2	3	7	5	--
<i>Meridion circulare</i>	--	--	--	--	1	--	--
<i>Navicula cryptocephala</i>	4	2	3	3	3	4	4
<i>N. exigua</i>	1	--	--	1	--	--	1
<i>N. heufleri</i>	1	1	4	1	3	4	2
<i>N. pupula</i>	1	1	1	1	--	1	--
<i>N. rhynchocephala</i>	1	--	--	--	--	--	--
<i>N. salinarum</i>	23	21	22	17	19	20	25
<i>N. tripunctata</i>	1	2	1	1	2	1	2
<i>N. vanheurnskii</i>	1	1	--	1	--	--	--
<i>N. viridula</i>	3	1	1	1	1	--	1
<i>Nitzschia acicularis</i>	1	1	--	--	2	--	1
<i>N. amphibia</i>	2	5	2	1	3	1	1
<i>N. communis</i>	1	1	1	--	1	2	1
<i>N. dissipata</i>	3	3	6	5	7	4	5
<i>N. holsatica</i>	4	3	2	2	6	3	1
<i>N. Kuetzingiana</i>	12	16	7	10	11	8	25
<i>N. linearis</i>	2	2	1	2	2	--	4
<i>N. palea</i>	3	5	7	2	4	5	7
<i>N. sp.</i>	6	1	4	2	3	2	8
<i>Rhizosolenia curvata</i>	1	2	2	3	3	3	2
<i>Stauroneis</i> sp.	1	--	--	1	--	--	--
<i>Stephanodiscus Hantzschii</i>	1	--	1	2	1	1	2
<i>Surirella ovata</i>	--	--	--	--	--	1	--
<i>Synedra rumpens</i>	4	7	5	5	7	9	4
<i>S. ulna</i>	--	--	--	--	1	--	--
<i>Tabellaria fenestrata</i>	2	5	2	5	4	4	4
Chrysophyceae							
<i>Dinobryon</i> sp.	--	--	--	--	--	1	--
<i>Mallomonas</i> sp.	1	--	--	--	--	--	--
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	--	1	1	--	--	1	--
<i>Cryptomonas</i> sp.	--	1	2	1	--	3	2
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Dactylococcopsis Smithii</i>	--	--	3	1	1	--	1
Immature cyanophyta trichome	--	--	--	--	1	--	--
<i>Oscillatoria</i> sp.	--	--	--	1	1	--	--
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium</i> sp.	1	2	2	2	3	4	4
<i>Peridinium</i> sp.	2	1	1	1	1	3	1
Miscellaneous flagellates	28	31	46	36	22	46	55
TOTAL	184	198	196	190	222	245	235

TABLE 8.—Phytoplankton taxa and cell counts, August 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1145 hr)
Site 16 - TRUCKEE RIVER NEAR SPARKS							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Closteriopsis</i> sp.	—	—	—	—	—	1	—
<i>Coelastrum microsporum</i>	—	—	—	8	—	—	—
<i>Pediastrum tetras</i>	—	—	—	—	—	8	—
<i>Scenedesmus abundans</i>	—	—	—	4	—	—	—
<i>S. denticulatus</i>	—	—	—	4	—	—	12
<i>S. dimorphus</i>	—	8	8	—	—	—	—
<i>S. opoliensis</i>	4	4	—	—	—	—	—
<i>Staurastrum dilatatum</i>	—	—	—	—	—	—	1
<i>Tetradion minimum</i>	1	1	1	1	—	1	1
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes curta</i>	1	1	1	1	2	1	—
<i>A. lanceolata</i>	—	—	—	—	—	1	—
<i>A. minutissima</i>	26	19	19	10	15	10	20
<i>Cocconeis placentula</i>	18	13	15	12	13	7	15
<i>Coscinodiscus</i> sp.	—	—	—	—	—	1	—
<i>Cyclotella Meneghiniana</i>	4	2	1	4	2	4	—
<i>C. ocellata</i>	—	—	—	—	—	—	1
<i>C. stelligera</i>	—	2	1	1	1	1	5
<i>Cymatopleura solea</i>	—	—	—	—	—	—	—
<i>Cymbella oistula</i>	22	31	20	15	21	12	28
<i>C. mexicana</i>	—	—	—	1	3	1	—
<i>C. minuta</i>	6	7	8	6	5	8	8
<i>C. sinuata</i>	4	2	1	2	—	1	1
<i>Diatoma vulgare</i>	—	2	1	3	2	—	1
<i>Fragilaria construens</i>	—	33	2	48	12	22	—
<i>F. crotonensis</i>	—	—	—	—	—	1	—
<i>F. vaucheriae</i>	—	—	—	1	2	—	—
<i>Gomphonema parvulum</i>	—	—	2	1	—	—	—
<i>G. truncatum</i>	3	—	—	—	1	—	1
<i>Gomphonema herculeana</i>	2	6	2	8	8	1	2
<i>Melosira granulata</i>	1	—	—	—	—	—	—
<i>M. italica</i>	—	—	—	—	2	—	—
<i>M. varians</i>	3	6	3	7	14	3	1
<i>Navicula cryptocephala</i>	8	6	14	10	8	10	9
<i>N. graciliodes</i>	—	—	—	1	—	—	—
<i>N. heufleri</i>	—	—	—	1	—	1	2
<i>N. pupula</i>	2	3	1	1	2	1	—
<i>N. salinarium</i>	154	154	93	117	35	132	172
<i>N. tripartita</i>	4	2	4	3	3	2	2
<i>N. vanheurnkii</i>	—	—	—	1	—	1	—
<i>N. viridula</i>	—	—	1	1	1	1	5
<i>Nitzschia acicularis</i>	—	1	—	—	3	3	—
<i>N. amphibia</i>	2	—	6	5	—	2	2
<i>N. communis</i>	4	—	2	6	2	1	6
<i>N. distipata</i>	4	9	12	9	12	10	9
<i>N. gracilis</i>	1	—	1	3	1	2	—
<i>N. holsteinia</i>	12	9	4	11	18	14	15
<i>N. Kuetsingiana</i>	31	25	17	17	27	16	32
<i>N. linearis</i>	5	2	3	4	3	1	3
<i>N. palea</i>	23	17	13	18	24	25	20
<i>N. sublinearis</i>	2	—	2	—	—	—	—
<i>N. sp.</i>	4	13	3	4	8	2	5
<i>Rhoicosphenia curvata</i>	—	4	2	4	3	1	3
<i>Surirella ovata</i>	—	—	—	—	—	1	—
<i>Symedra ulna</i>	—	—	1	1	—	1	—
<i>Tabellaria fenestrata</i>	—	1	1	1	1	1	1
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	1	—	1	1	1	—	1
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Dactylococcopsis Smithii</i>	—	—	—	—	1	—	—
Immature cyanophyta trichome	6	12	2	3	4	2	9
<i>Oscillatoria</i> sp.	1	3	1	2	3	1	—
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Peridinium</i> sp.	1	—	1	—	—	1	—
Miscellaneous flagellates	59	80	32	44	67	41	59
TOTAL	419	478	302	405	330	361	454

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1230 hr)	(1645 hr)	(2045 hr)	(0045 hr)	(0445 hr)	(0845 hr)	(1215 hr)
Site 19 - NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Arkistrodesmus falcatulus</i>	--	--	--	--	--	9	3
<i>Chlorophyta flagellate</i>	21	7	17	8	2	13	6
<i>Closterium</i> sp.	--	--	--	--	2	--	--
<i>Coelastrum microsporum</i>	72	--	16	24	16	48	24
<i>Cosmarium botrytis</i>	--	--	--	--	--	3	--
<i>C. reniforme</i>	--	--	--	3	--	--	--
<i>C. sp.</i>	--	3	--	--	--	--	--
<i>Oocystis</i> sp.	8	--	--	--	--	--	--
<i>Pediastrum Boryanum</i>	--	--	--	--	--	--	48
<i>P. duplex</i>	--	48	--	--	--	--	--
<i>Scenedesmus abundans</i>	--	12	--	--	--	--	18
<i>S. denticulatus</i>	8	--	--	--	--	--	--
<i>S. dimorphus</i>	--	12	--	--	--	--	12
<i>S. opoliensis</i>	8	12	8	20	8	--	--
<i>S. quadricauda</i>	--	12	16	--	--	--	--
<i>S. sp.</i>	4	--	8	--	--	--	--
<i>Schroederia setigera</i>	--	--	4	3	2	3	--
<i>Selenastrum minutum</i>	--	3	--	--	--	--	--
<i>Staurastrum sebaldi</i>	--	--	--	--	--	3	--
<i>Tetraedron minimum</i>	--	--	--	--	--	3	--
<i>T. trigonum</i>	2	3	--	--	--	3	--
<i>Tetrastrum staurigeniaeforme</i>	2	--	--	3	--	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes curta</i>	--	--	--	--	--	--	3
<i>A. lanceolata</i>	2	7	2	--	6	--	3
<i>A. minutissima</i>	7	--	--	3	4	--	13
<i>Cocconeis placentula</i>	303	251	188	146	111	120	230
<i>Cyclotella Meneghiniana</i>	34	7	9	14	2	9	6
<i>Cymatopleura solea</i>	--	--	--	--	2	--	3
<i>Cymbella mezicana</i>	--	--	--	--	2	--	--
<i>C. minuta</i>	2	--	2	3	2	--	--
<i>C. sinuata</i>	--	3	--	--	--	--	3
<i>Diatoma vulgare</i>	7	17	22	14	8	25	16
<i>Epithemia sorax</i>	--	--	--	--	4	6	--
<i>Fragilaria construens</i>	537	786	606	1074	796	701	319
<i>Gomphonema dichotomum</i>	--	--	--	3	--	--	--
<i>G. parvulum</i>	11	10	22	8	8	13	16
<i>G. tenellum</i>	9	24	17	3	4	22	19
<i>G. truncatum</i>	2	--	--	--	--	--	--
<i>Melosira italica</i>	--	--	--	11	--	--	--
<i>M. varians</i>	5	7	11	27	31	38	6
<i>Meridion circulare</i>	--	--	--	5	--	--	--
<i>Navicula cryptocephala</i>	2	3	--	--	4	9	3
<i>N. heufleri</i>	14	7	2	16	12	13	28
<i>N. pupula</i>	14	--	2	11	--	6	6
<i>N. rhynchocephala</i>	--	--	--	11	--	--	--
<i>N. salinarum</i>	62	76	41	43	45	88	38
<i>N. tripunctata</i>	5	10	--	--	--	--	3
<i>N. viridula</i>	2	14	--	5	4	6	13
<i>Nitzschia acicularis</i>	--	21	--	11	8	41	13
<i>N. amphibia</i>	9	10	4	16	8	19	16
<i>N. communis</i>	5	3	--	--	2	3	--
<i>N. dissipata</i>	21	7	4	3	--	--	--
<i>N. holaeatica</i>	--	3	--	--	--	3	9
<i>N. Kuetzingiana</i>	67	83	32	32	31	66	104
<i>N. linearis</i>	--	7	2	--	4	--	--
<i>N. palea</i>	34	65	26	38	29	79	66
<i>N. tryblionella</i>	--	--	--	--	2	--	--
<i>N. sp.</i>	28	17	22	11	6	9	28
<i>Pinnularia</i> sp.	--	--	--	3	--	--	--
<i>Rhoicosphenia curvata</i>	32	--	13	5	10	32	6
<i>Rhopalodia gibba</i>	--	--	--	--	2	3	--
<i>R. gibberula</i>	--	3	--	--	--	--	--
<i>Stephanodiscus Hantzschii</i>	16	10	30	24	16	38	16
<i>Surirella ovata</i>	7	3	4	11	4	6	3
<i>Synedra ulna</i>	11	14	--	3	--	3	3
Chrysophyceae							
<i>Mallomonas</i> sp.	2	10	--	--	8	57	69
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	30	--	--	5	--	16	41
<i>Cryptomonas</i> sp.	7	14	52	30	18	60	44
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Dactylococcopsis Smithii</i>	5	--	--	--	--	3	3
<i>Oscillatoria</i> sp.	--	--	--	--	4	--	3
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium</i> sp.	4	2	3	2	5	--	3
Miscellaneous flagellates	275	134	190	195	240	259	344
TOTAL	1696	1740	1375	1847	1472	1838	1610

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980		Aug. 14, 1980			
	(1330 hr)	(1630 hr)	(0100 hr)	(0500 hr)	(0830 hr)	(1200 hr)
Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO						
CHLOROPHYTA (green algae)						
Chlorophyceae						
<i>Ankistrodesmus falcatus</i>	4	2	2	--	--	10
<i>Chlorophyta flagellate</i>	--	13	--	--	4	7
<i>Closteriopsis longissima</i>	--	4	--	--	--	--
<i>Coelastrum microsporum</i>	--	--	--	16	--	--
<i>Cosmarium reniforme</i>	--	2	--	--	--	--
<i>C. sp.</i>	--	--	2	2	--	2
<i>Diatyosphaerium pulchellum</i>	--	--	72	32	48	--
<i>Eudorina elegans</i>	--	128	--	--	--	32
<i>Golenkinia radiata</i>	2	--	--	--	--	--
<i>Oocystis sp.</i>	--	2	5	--	24	--
<i>Panderina norum</i>	--	--	--	32	--	--
<i>Pediastrum Boryanum</i>	16	--	--	--	32	--
<i>P. tetras</i>	8	--	--	8	16	20
<i>Scenedesmus abundans</i>	8	16	--	--	--	--
<i>S. bifuga</i>	24	24	--	8	8	--
<i>S. dimorphus</i>	--	--	20	--	--	--
<i>S. opoliensis</i>	8	--	8	28	20	--
<i>S. quadricauda</i>	--	--	--	--	14	--
<i>S. sp.</i>	8	--	--	--	--	--
<i>Schroederia setigera</i>	4	4	--	--	4	--
<i>Selenastrum minutum</i>	--	4	7	--	2	--
<i>Spirogyra sp.</i>	--	2	--	--	--	2
<i>Staurastrum sebaldi</i>	--	2	--	--	--	--
<i>Tetradon minimum</i>	--	2	--	2	6	2
<i>T. trigonum</i>	--	--	2	--	--	--
<i>Tetradon stauronensisformae</i>	2	2	--	--	--	2
<i>Ulothrix sp.</i>	--	--	34	--	--	--
CHRYSTOPHYTA						
Bacillariophyceae (diatoms)						
<i>Achnanthes clevei</i>	--	--	2	--	--	--
<i>A. lanceolata</i>	2	--	5	2	--	2
<i>A. minutissima</i>	7	--	2	--	--	--
<i>Amphora ovalis</i>	2	2	2	2	9	2
<i>Caloneis amphibia</i>	--	--	--	--	2	--
<i>Cocconeis placentula</i>	96	95	55	91	54	61
<i>Cocconeis sp.</i>	2	--	--	--	--	--
<i>Cyclotella Meneghiniana</i>	38	24	28	27	52	66
<i>Cymatopleura solea</i>	--	--	--	--	--	2
<i>Cymbella minuta</i>	2	4	2	4	9	2
<i>Diatoma vulgare</i>	--	2	9	4	4	5
<i>Fragilaria constricta</i>	169	180	388	550	320	440
<i>F. crotonensis</i>	4	--	145	33	15	--
<i>Gomphonema parvulum</i>	11	6	2	13	11	12
<i>G. subulatum</i>	4	11	2	11	9	5
<i>G. tenellum</i>	4	2	5	2	4	5
<i>Melosira granulata</i>	--	--	14	--	13	7
<i>M. italica</i>	4	--	7	--	--	--
<i>M. varians</i>	11	19	18	22	17	17
<i>Navicula cryptocephala</i>	7	4	2	2	6	5
<i>N. heuflieri</i>	18	22	18	16	13	27
<i>N. pupula</i>	7	6	2	2	17	7
<i>N. pygmaea</i>	--	--	--	--	2	--
<i>N. rhynchocephala</i>	--	--	--	--	2	2
<i>N. salinarum</i>	38	22	7	9	15	17
<i>N. tripartita</i>	11	2	5	2	6	--
<i>N. viridula</i>	11	6	7	16	6	20
<i>Nitzschia acicularis</i>	9	30	11	2	13	12
<i>N. amphibia</i>	9	19	80	11	26	12
<i>N. apiculata</i>	--	2	--	--	--	--
<i>N. communis</i>	--	2	--	--	--	2
<i>N. dissipata</i>	--	--	2	--	--	--
<i>N. kuetsingiana</i>	11	9	9	11	19	12
<i>N. linearis</i>	--	--	2	--	2	2
<i>N. palea</i>	18	13	5	11	24	12
<i>N. sp.</i>	--	4	5	4	4	5
<i>Rhoicosphenia curvata</i>	9	4	7	13	13	7
<i>Rhopalodia gibberula</i>	--	--	--	--	2	--
<i>Stephanodiscus Hantzschii</i>	4	11	2	4	2	22
<i>Surirella ovata</i>	--	--	--	--	2	--
<i>Synedra ulna</i>	--	6	2	2	9	--
Chrysophyceae						
<i>Mallomonas sp.</i>	2	2	--	--	--	--
CRYPTOPHYTA (cryptomonads)						
Cryptophyceae						
<i>Chroomonas sp.</i>	25	50	28	13	74	120
<i>Cryptomonas sp.</i>	33	65	39	29	113	90

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980		Aug. 14, 1980			
	(1330 hr)	(1630 hr)	(0100 hr)	(0500 hr)	(0830 hr)	(1200 hr)
Site 20 - STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO--Continued						
CYANOPHYTA (blue-green algae)						
Myxophyceae						
<i>Anabaena spiroides</i>	270	357	562	611	587	396
<i>A. sp.</i>	7	4	23	22	6	17
<i>Dactylococcopsis Smithii</i>	--	4	2	--	--	--
<i>Gomphosphaeria lacustris</i>	--	--	128	--	--	--
<i>Merismopedia tenuissima</i>	--	--	--	--	--	16
<i>Microcystis incerta</i>	7	19	25	7	28	24
<i>Oscillatoria sp.</i>	11	26	39	22	13	17
<i>Raphidiopsis mediterranea</i>	33	63	110	169	139	115
Miscellaneous flagellates	180	167	96	105	158	176
TOTAL	1160	1471	2056	1972	1998	1838

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0415 hr)	(0800 hr)	(1200 hr)
Site 22 - TRUCKEE RIVER AT VISTA							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Ankistrodesmus falcatus</i>	--	5	3	9	5	6	2
<i>Chlorophyta flagellate</i>	2	11	8	3	--	--	2
<i>Chodatella quadriseta</i>	--	--	--	3	--	--	--
<i>Closteriopeis longissima</i>	--	--	--	2	--	--	--
<i>Coelastrum microsporum</i>	--	--	--	--	24	--	16
<i>Cosmarium</i> sp.	2	--	--	--	--	--	--
<i>Eudorina elegans</i>	--	--	96	--	--	--	--
<i>Oocystis</i> sp.	--	--	--	--	3	--	--
<i>Pediastrum Boryanum</i>	--	--	--	16	--	--	--
<i>P. tetras</i>	--	--	--	8	--	8	--
<i>Scenedesmus abundans</i>	--	8	--	--	12	--	--
<i>S. bijuga</i>	--	--	--	--	12	--	--
<i>S. denticulatus</i>	8	8	--	--	--	--	--
<i>S. dimorphus</i>	--	--	--	--	--	--	8
<i>S. opoliensis</i>	--	8	12	--	--	20	28
<i>S. quadricauda</i>	--	4	12	12	6	24	8
<i>S. sp.</i>	--	--	--	8	--	--	--
<i>Schroederia setigera</i>	--	--	5	2	--	4	4
<i>Selenastrum minutum</i>	6	8	--	2	--	8	--
<i>Tetradron minimum</i>	--	--	3	--	--	--	--
<i>Tetradron staurigeniaeforme</i>	--	--	--	--	--	--	2
<i>Treubaria setigerum</i>	--	--	--	2	--	--	--
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	6	--	--	3	--	2	2
<i>A. minutissima</i>	8	--	8	9	20	8	29
<i>Amphora ovalis</i>	6	2	--	2	5	2	--
<i>Bacillaria paradoxa</i>	--	--	--	25	--	--	--
<i>Caloneis amphibaena</i>	--	2	--	2	--	--	--
<i>Cocconeis placentula</i>	45	50	64	57	33	54	55
<i>Cyclotella Meneghiniana</i>	16	8	27	17	18	26	15
<i>C. stelligera</i>	--	--	--	--	13	--	--
<i>Cymbella cistula</i>	10	23	19	7	25	20	15
<i>C. minuta</i>	12	8	5	15	15	14	4
<i>C. sinuata</i>	8	--	8	2	--	2	--
<i>Diatoma vulgare</i>	6	--	5	2	5	6	--
<i>Epithemia eorex</i>	--	--	--	--	--	2	--
<i>E. turgida</i>	--	--	--	--	3	--	--
<i>Fragilaria construens</i>	208	32	114	79	91	64	61
<i>F. crotonensis</i>	--	--	--	--	8	--	--
<i>Gomphonema herculeana</i>	4	--	8	5	3	--	--
<i>Gomphonema parvulum</i>	10	--	8	10	--	10	2
<i>G. subclavatum</i>	4	5	5	--	3	6	1
<i>G. tenellum</i>	4	5	11	3	13	4	11
<i>G. ventricosum</i>	--	--	--	--	--	--	2
<i>Melosira granulata</i>	6	5	--	17	--	--	4
<i>M. italica</i>	--	--	--	5	5	--	--
<i>M. varians</i>	6	11	5	3	5	10	9
<i>Navicula capitata</i>	2	--	--	--	--	2	2
<i>N. cryptocephala</i>	4	--	--	2	--	8	11
<i>N. cuspidata</i>	--	--	--	--	--	--	2
<i>N. heufleri</i>	8	11	16	12	10	20	11
<i>N. mutica</i>	2	5	--	2	--	--	--
<i>N. pupula</i>	17	5	5	2	8	18	15
<i>N. rhynchocephala</i>	4	--	--	--	--	--	--
<i>N. salinarium</i>	140	91	117	86	106	159	143
<i>N. tripunctata</i>	6	2	--	--	--	4	2
<i>N. vanheurnkii</i>	4	2	--	--	--	--	--
<i>N. viridula</i>	16	3	8	14	3	14	7
<i>Nitzschia acicularis</i>	4	2	11	2	5	18	11
<i>N. amphibia</i>	17	12	19	10	20	24	4
<i>N. communis</i>	4	2	5	2	--	--	2
<i>N. dissipata</i>	4	3	--	5	3	12	9
<i>N. holeatica</i>	4	--	11	--	5	--	9
<i>N. Kuetzingiana</i>	29	18	29	15	25	46	22
<i>N. linearis</i>	2	2	3	5	--	2	2
<i>N. palea</i>	31	17	48	28	15	60	33
<i>N. sp.</i>	10	2	11	3	20	8	11
<i>Pinnularia</i> sp.	--	--	3	--	--	--	--
<i>Rhoicosphenia curvata</i>	10	5	11	9	8	8	9
<i>Rhopalodia gibba</i>	--	--	3	--	--	--	--
<i>R. gibberula</i>	2	--	--	2	--	2	--
<i>Stephanodiscus Hantzschii</i>	--	2	--	2	--	2	--
<i>Surirella ovata</i>	6	5	--	5	5	--	2
<i>Synedra ulna</i>	--	3	3	2	5	2	--
<i>Tabellaria fenestrata</i>	--	2	--	2	8	2	--
Chrysophyceae							
<i>Mallomonas</i> sp.	--	2	--	--	--	--	2
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	6	2	--	--	8	18	22
<i>Cryptomonas</i> sp.	12	11	11	7	8	20	35

TABLE 8.—Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0415 hr)	(0800 hr)	(1200 hr)
Site 22 - <u>TRUCKEE RIVER AT VISTA</u> --Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	62	55	106	108	96	124	152
<i>A. sp.</i>	--	2	--	2	5	6	11
<i>Dactylococcopsis Smithii</i>	--	--	3	7	--	--	--
Immature cyanophyta trichome	2	5	8	--	15	6	4
<i>Merismopedia tenuissima</i>	--	--	--	--	96	96	--
<i>Microcystis incerta</i>	--	2	3	2	3	--	--
<i>Oscillatoria sp.</i>	2	5	5	--	13	6	--
<i>Raphidiopsis mediterranea</i>	4	9	5	19	18	28	40
Miscellaneous flagellates	280	202	292	265	326	189	206
TOTAL	1071	692	1162	950	1161	1204	1059

TABLE 8.—Phytoplankton taxa and cell counts, August 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1700 hr)	(2045 hr)	(0100 hr)	(0500 hr)	(0900 hr)	(1245 hr)
Site 23 - TRUCKEE RIVER AT LOCKWOOD							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Arkistrodesmus falcatus</i>	--	4	--	--	4	--	2
<i>Chlorophyta flagellate</i>	--	2	--	2	6	3	4
<i>Closteriopsis longissima</i>	3	--	--	--	--	--	--
<i>Coelastrum microsporum</i>	--	--	--	--	--	72	--
<i>Cosmarium</i> sp.	--	--	--	2	--	--	--
<i>Dictyosphaerium pulchellum</i>	--	--	8	16	--	--	--
<i>Eudorina elegans</i>	--	32	--	--	--	--	--
<i>Kinchneriella subsolitaria</i>	--	8	--	--	--	--	--
<i>Oocystis</i> sp.	6	--	--	--	--	--	--
<i>Pediastrum Boryanum</i>	--	--	--	--	16	--	--
<i>P. duplex</i>	--	--	--	64	--	--	--
<i>Scenedesmus abundans</i>	6	--	8	--	--	--	8
<i>S. bijuga</i>	--	--	24	24	--	24	--
<i>S. denticulatus</i>	--	--	8	--	8	--	8
<i>S. dimorphus</i>	--	--	8	--	16	8	24
<i>S. opoliensis</i>	--	8	8	8	20	12	36
<i>S. quadricauda</i>	--	--	8	--	--	8	--
<i>S. sp.</i>	--	--	--	--	--	--	8
<i>Schroederia setigera</i>	--	2	2	2	6	6	--
<i>Selenastrum minutum</i>	3	6	13	--	--	--	--
<i>Staurodesmus</i> sp.	--	--	--	--	--	--	2
<i>Tetrastrum staurogeniaeforme</i>	--	--	--	2	--	3	--
<i>Traedron caudatum</i>	--	--	--	2	--	--	--
<i>T. minimum</i>	--	2	2	--	2	--	2
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	--	--	2	2	--	--	--
<i>A. minutissima</i>	18	20	9	18	17	6	18
<i>Amphora ovalis</i>	--	2	4	--	4	--	--
<i>Cocconeis placentula</i>	21	30	34	48	33	38	33
<i>Cyclotella Meneghiniana</i>	33	22	36	22	19	38	37
<i>Cymbella cistula</i>	15	6	16	10	14	20	13
<i>C. minuta</i>	9	4	11	8	12	15	13
<i>C. sinuata</i>	6	2	9	--	2	--	2
<i>Diatoma vulgare</i>	--	2	2	--	4	15	--
<i>Fragilaria constricta</i>	242	12	87	48	111	79	200
<i>F. crotonensis</i>	--	--	--	--	--	6	33
<i>Gomphonema herculeana</i>	--	2	--	--	--	--	--
<i>Gomphonema parvulum</i>	24	4	20	8	10	9	11
<i>G. subclavatum</i>	33	--	--	2	2	9	4
<i>G. tenellum</i>	6	14	11	10	6	--	20
<i>Gomphonema truncatum</i>	--	--	--	--	4	--	--
<i>Melosira italica</i>	--	--	--	4	--	--	--
<i>M. varians</i>	--	4	--	--	14	3	9
<i>Navicula capitata</i>	3	2	--	--	--	--	--
<i>N. cryptocephala</i>	--	6	5	8	--	15	--
<i>N. exigua</i>	--	--	--	--	--	--	2
<i>N. heufleri</i>	24	10	2	18	14	26	11
<i>N. minuscula</i>	9	8	4	8	12	2	7
<i>N. mutica</i>	3	8	--	2	6	--	7
<i>N. pupula</i>	18	24	13	8	12	9	35
<i>N. pygmaea</i>	3	--	--	--	--	--	--
<i>N. rhychocephala</i>	3	--	--	2	--	--	--
<i>N. salinarum</i>	200	137	150	103	89	143	83
<i>N. tripunctata</i>	6	6	7	--	2	--	2
<i>N. viridula</i>	9	2	--	4	6	--	2
<i>Nitzschia acicularis</i>	6	22	9	4	6	3	15
<i>N. amphibia</i>	52	4	29	18	33	20	53
<i>N. communis</i>	6	4	--	4	4	--	2
<i>N. dissipata</i>	3	6	9	14	6	--	15
<i>N. holsetica</i>	12	18	--	10	12	6	--
<i>N. Kuetzingiana</i>	106	77	85	46	54	105	53
<i>N. linearis</i>	3	4	5	--	6	3	4
<i>N. palea</i>	97	97	52	51	49	87	119
<i>N. tryblionella</i>	--	2	--	--	--	--	--
<i>N. sp.</i>	15	2	7	12	10	--	15
<i>Rhoicosphenia curvata</i>	--	8	14	8	12	6	11
<i>Stephanodiscus Hantzschii</i>	15	--	--	4	--	6	7
<i>Surirella angustata</i>	--	--	--	--	2	--	--
<i>S. ovata</i>	--	6	4	8	--	2	9
<i>Synedra rumpens</i>	3	--	--	4	--	--	--
<i>S. ulna</i>	6	--	4	6	--	--	7
Chrysophyceae							
<i>Mallomonas akrokomos</i>	--	--	--	2	21	--	--
<i>M. sp.</i>	3	--	--	--	2	--	2
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	6	--	2	--	4	6	9
<i>Cryptomonas</i> sp.	--	4	14	--	14	12	13

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued
[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1700 hr)	(2045 hr)	(0100 hr)	(0500 hr)	(0900 hr)	(1245 hr)
Site 23 - TRUCKEE RIVER AT LOCKWOOD--Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	18	36	41	71	109	111	77
<i>A. sp.</i>	3	--	2	--	--	--	--
<i>Gomphosphaeria lacustris</i>	--	--	--	--	160	48	--
Immature cyanophyta trichome	27	26	4	8	17	3	44
<i>Microcystis incerta</i>	--	2	--	--	16	12	9
<i>Oscillatoria sp.</i>	6	10	2	4	4	12	--
<i>Raphidiopsis mediterranea</i>	--	6	4	20	20	20	20
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Peridinium sp.</i>	3	--	--	--	--	--	--
Miscellaneous flagellates	188	226	218	206	280	306	195
TOTAL	1281	951	1016	955	1312	1337	1315

TABLE 8.—Phytoplankton taxa and cell counts, August 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1200 hr)
Site 27 - TRUCKEE RIVER AT PATRICK							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	—	—	—	—	24	20	—
<i>Arkiastrodesmus falcatulus</i>	—	3	5	2	—	2	28
<i>Chlorophyta flagellate</i>	14	—	—	5	—	—	10
<i>Closteriopsis longissima</i>	—	3	—	—	—	—	5
<i>Coelastrum microsporum</i>	—	24	—	—	—	16	40
<i>Dictyosphaerium pulchellum</i>	—	—	—	8	—	—	—
<i>Eudorina elegans</i>	32	—	—	—	—	—	96
<i>Kirchneriella subulitaria</i>	8	—	—	—	—	—	—
<i>Microactinium pusillum</i>	8	—	—	16	12	8	—
<i>Pediastrum Boryanum</i>	—	—	—	16	—	48	—
<i>P. duplex</i>	—	—	48	—	—	—	—
<i>Scenedesmus abundans</i>	—	—	—	8	12	24	—
<i>S. bifuga</i>	—	16	—	8	—	—	20
<i>S. denticulatus</i>	8	—	—	—	—	8	—
<i>S. dimorphus</i>	8	12	—	—	12	—	12
<i>S. opoliensis</i>	—	—	12	16	—	—	6
<i>S. quadricauda</i>	—	6	24	—	6	8	12
<i>S. sp.</i>	—	—	—	8	—	—	12
<i>Schroederia setigera</i>	2	—	—	—	—	2	5
<i>Selenastrum minutum</i>	7	48	8	2	3	—	—
<i>Tetraedron minimum</i>	2	—	3	—	3	2	3
<i>T. trigonum</i>	2	—	—	2	—	—	3
<i>Tetrastrum staurogeniaeforme</i>	—	3	—	—	3	2	—
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	2	—	3	2	3	—	3
<i>A. minutissima</i>	5	5	21	5	11	7	8
<i>Amphora ovalis</i>	2	—	3	2	3	—	—
<i>Cocconeis placentula</i>	64	28	42	34	32	51	35
<i>Cyclotella Meneghiniana</i>	59	48	47	18	16	37	40
<i>Cymbella cistula</i>	9	15	10	—	11	2	—
<i>C. mexicana</i>	9	8	5	—	—	5	3
<i>C. minuta</i>	12	10	16	8	14	5	5
<i>C. sinuata</i>	—	3	3	—	3	—	—
<i>Diatoma vulgare</i>	—	3	3	2	—	—	—
<i>Diploneis oblongella</i>	—	—	—	2	—	—	—
<i>Fragilaria construens</i>	256	88	26	60	290	66	126
<i>F. crotonensis</i>	—	—	42	—	24	17	—
<i>Gomphonema herculeana</i>	9	3	10	5	3	2	10
<i>Gomphonema parvulum</i>	69	18	21	28	35	17	30
<i>G. subulatum</i>	—	8	3	5	3	7	15
<i>G. tenellum</i>	2	8	10	2	3	7	5
<i>Melosira granulata</i>	14	—	13	11	5	—	15
<i>M. varians</i>	14	5	26	2	5	12	10
<i>Navicula cryptocephala</i>	5	3	8	6	3	7	8
<i>N. exigua</i>	—	—	3	—	—	—	—
<i>N. heufleri</i>	17	15	21	8	8	15	13
<i>N. minuscula</i>	7	30	13	8	19	7	5
<i>N. mutica</i>	9	5	26	13	14	12	8
<i>N. pupula</i>	19	35	37	37	30	34	30
<i>N. salinarum</i>	308	273	196	143	195	164	270
<i>N. triquetata</i>	5	3	—	—	5	7	3
<i>N. viridula</i>	9	5	8	2	3	2	—
<i>Nitzschia acicularis</i>	21	13	10	15	—	10	10
<i>N. amphibia</i>	57	25	29	75	60	24	104
<i>N. apiculata</i>	2	—	—	—	—	—	—
<i>N. communis</i>	2	3	5	2	8	—	3
<i>N. dissipata</i>	12	30	47	26	5	20	38
<i>N. holatiosa</i>	9	—	10	13	5	—	—
<i>N. Kuetzingiana</i>	180	141	97	93	124	164	174
<i>N. linearis</i>	—	5	5	2	3	—	5
<i>N. palea</i>	218	210	138	127	122	215	250
<i>N. sp.</i>	26	23	34	15	11	39	56
<i>Rhoicosphenia curvata</i>	9	18	16	3	16	15	20
<i>Stephanodiscus Hantzschii</i>	—	8	3	5	3	10	5
<i>Surirella angustata</i>	—	—	—	—	—	2	3
<i>S. ovata</i>	2	3	3	5	—	—	—
<i>Synedra ulna</i>	2	8	—	2	14	7	3
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	9	23	3	16	14	5	15
<i>Cryptomonas</i> sp.	14	10	13	15	5	15	13
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	45	18	47	44	73	54	93
<i>A. sp.</i>	—	—	—	2	8	2	—
<i>Gomphosphaeria lacustris</i>	—	—	—	—	—	48	—
Immature cyanophyta trichome	5	8	8	5	8	7	5
<i>Merismopedia tenuissimum</i>	—	84	—	32	—	—	—
<i>Microcystis</i> sp.	7	—	3	5	5	5	15
<i>Oscillatoria</i> sp.	5	3	3	5	5	7	8
<i>Raphidiopsis mediterranea</i>	5	5	—	3	8	27	13
Miscellaneous flagellates	180	237	123	94	111	112	189
TOTAL	1806	1609	1313	1098	1421	1411	1916

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1630 hr)	(2030 hr)	(0030 hr)	(0430 hr)	(0830 hr)	(1230 hr)
Site 34 - TRUCKEE RIVER AT CLARK							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	256	272	188	212	148	264	232
<i>Ankistrodesmus falcatus</i>	--	10	2	2	--	8	5
Chlorophyta flagellate	12	10	9	--	--	8	18
<i>Closterium</i> sp.	--	--	2	5	--	--	--
<i>Coelastrum microsporum</i>	16	--	16	40	--	24	--
<i>Dictyosphaerium pulchellum</i>	--	--	--	--	--	--	32
<i>Golenkinia radiata</i>	--	--	--	--	--	--	3
<i>Kriohmeriella subaeolitaria</i>	--	--	--	8	--	--	--
<i>Microcystis pusillum</i>	52	24	24	64	74	60	40
<i>Oocystis</i> sp.	2	--	10	--	--	9	12
<i>Pandorina morum</i>	--	--	--	16	--	--	--
<i>Pediastrum Boryanum</i>	--	--	--	--	--	96	--
<i>P. duplex</i>	--	--	--	--	--	--	96
<i>P. tetras</i>	--	16	--	--	16	--	24
<i>Scenedesmus abundans</i>	4	8	--	4	--	12	--
<i>S. bifuga</i>	4	4	26	--	8	24	12
<i>S. denticulatus</i>	--	--	--	8	--	--	20
<i>S. dimorphus</i>	20	--	36	20	24	24	--
<i>S. opoliensis</i>	20	--	36	4	24	28	40
<i>S. quadricauda</i>	20	10	18	8	16	12	--
<i>S. sp.</i>	--	--	--	--	--	32	--
<i>Schroederia setigera</i>	--	--	--	--	--	3	--
<i>Selenastrum minutum</i>	44	27	121	17	--	--	23
<i>Staurastrum dilatatum</i>	--	--	--	5	--	--	--
<i>Tetradon caudatum</i>	--	2	--	--	--	--	--
<i>T. minimum</i>	--	5	--	2	--	--	3
<i>T. trigonum</i>	--	--	--	--	--	--	3
<i>Tetrasstrum staurogeniaeforme</i>	2	2	5	--	--	--	--
<i>Treubaria setigerum</i>	--	2	--	--	--	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes clevei</i>	--	--	--	--	2	--	--
<i>A. lanceolata</i>	2	2	--	2	5	3	5
<i>A. minutissima</i>	--	10	7	7	10	10	10
<i>Amphora ovalis</i>	--	--	2	--	--	3	3
<i>Caloneis amphibiaena</i>	--	--	2	--	--	--	--
<i>Cocconeis placentula</i>	90	59	40	29	56	56	114
<i>Cyclotella Menziesiana</i>	73	93	90	42	34	56	66
<i>Cymbella cistula</i>	2	--	5	5	15	3	13
<i>C. minuta</i>	--	5	7	5	5	10	--
<i>C. sinuata</i>	--	--	2	2	--	--	5
<i>C. tumida</i>	17	15	24	12	5	15	8
<i>Epithemia sorax</i>	--	2	--	--	--	--	--
<i>Fragilaria construens</i>	86	12	111	374	296	121	225
<i>F. crotonensis</i>	--	--	--	12	--	8	--
<i>F. vaucheriae</i>	--	2	--	--	--	--	--
<i>Gomphonema herculeana</i>	7	2	--	5	5	--	5
<i>Gomphonema parvulum</i>	54	53	57	39	66	58	76
<i>G. sublaevatum</i>	32	17	14	27	22	18	20
<i>G. tenellum</i>	7	10	2	--	--	3	--
<i>Melosira granulata</i>	--	--	--	10	27	5	23
<i>M. varians</i>	2	2	2	20	2	5	3
<i>Navicula capitata</i>	2	--	--	--	--	--	--
<i>N. cryptocephala</i>	--	5	--	2	12	13	5
<i>N. cuspidata</i>	--	--	--	--	--	--	3
<i>N. heuflieri</i>	--	12	7	5	7	15	8
<i>N. minuscula</i>	17	17	7	15	12	10	28
<i>N. mutica</i>	5	5	--	5	15	3	15
<i>N. pupula</i>	54	39	33	49	64	81	73
<i>N. pygmaea</i>	--	2	--	--	--	--	--
<i>N. rhynchocephala</i>	--	--	2	2	--	--	--
<i>N. salinarum</i>	164	159	152	159	144	210	225
<i>N. tripunctata</i>	2	--	2	10	2	--	5
<i>N. viridula</i>	2	--	2	5	--	--	3
<i>Nitzschia acicularis</i>	27	34	14	5	22	33	25
<i>N. amphibia</i>	103	83	66	71	64	73	96
<i>N. apiculata</i>	2	--	--	--	--	--	5
<i>N. communis</i>	7	10	9	2	2	5	8
<i>N. dissipata</i>	46	22	14	15	39	53	33
<i>N. holzschiana</i>	24	5	9	10	15	5	25
<i>N. Kuetzingiana</i>	122	147	90	125	137	222	152
<i>N. linearis</i>	--	--	--	5	2	--	3
<i>N. palea</i>	186	142	128	122	152	212	235
<i>N. sp.</i>	20	44	36	24	22	51	43
<i>Pinnularia</i> sp.	--	--	2	--	--	--	--
<i>Rhoicosphenia curvata</i>	15	12	7	10	7	13	20
<i>Stephanodiscus Hantzschii</i>	12	2	14	2	12	10	15
<i>Surirella angustata</i>	--	--	2	--	--	--	--
<i>S. ovata</i>	--	--	--	5	2	--	--
<i>Symedra ulna</i>	15	5	9	5	5	5	88
<i>Tabellaria fenestrata</i>	--	2	2	2	5	--	--
Chrysophyceae							
<i>Mallomonas</i> sp.	--	--	--	--	--	3	--
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	10	17	5	7	10	23	33
<i>Cryptomonas</i> sp.	10	24	9	12	22	8	18

TABLE 8.--Phytoplankton taxon and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1630 hr)	(2030 hr)	(0030 hr)	(0430 hr)	(0830 hr)	(1230 hr)
Site 34 - TRUCKEE RIVER AT CLARK--Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	17	12	38	22	34	30	66
<i>A. sp.</i>	2	--	--	--	--	--	3
<i>Dactylococcopsis Smithii</i>	--	--	2	--	--	--	--
Immature cyanophyta trichome	5	10	5	10	10	5	3
<i>Merismopedia tenuissima</i>	32	80	48	--	32	--	48
<i>Microcystis incerta</i>	--	5	2	--	10	5	3
<i>Oscillatoria sp.</i>	2	5	7	2	7	13	5
<i>Raphidiopsis mediterranea</i>	7	7	5	12	5	23	10
Miscellaneous flagellates	166	88	92	73	81	131	199
TOTAL	1900	1671	1678	1799	1813	2233	2640

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1730 hr)	(2130 hr)	(0100 hr)	(0415 hr)	(0930 hr)	(1145 hr)
Site 36 - TRUCKEE RIVER AT DERBY DAM							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	252	264	192	216	136	224	116
<i>Arketodesmus falcatus</i>	31	3	8	15	10	---	---
<i>Chlorophyta flagellate</i>	26	8	15	---	15	10	---
<i>Chodatella quadriseta</i>	---	---	---	2	---	---	---
<i>Closteriopsis longissima</i>	---	---	---	---	---	5	---
<i>Coelastrum microsporum</i>	---	24	---	---	40	---	---
<i>Cosmarium</i> sp.	---	---	3	---	---	---	---
<i>Crucigera crucifera</i>	---	8	---	---	---	---	---
<i>Eudorina elegans</i>	---	---	---	---	---	80	---
<i>Golerkinia radiata</i>	10	3	8	5	---	---	---
<i>Microactinium pusillum</i>	120	44	68	20	100	100	40
<i>Pandorina morum</i>	80	---	---	16	---	---	---
<i>Pediastrum Boryanum</i>	---	24	---	---	40	160	---
<i>P. duplex</i>	---	24	---	160	---	---	---
<i>P. simplex</i>	20	24	---	---	---	---	---
<i>P. tetras</i>	20	36	6	---	---	---	---
<i>Scenedesmus abundans</i>	---	20	20	---	---	---	---
<i>S. denticulatus</i>	---	52	20	8	---	---	---
<i>S. dimorphus</i>	---	12	32	---	---	20	30
<i>S. opolionis</i>	20	6	---	40	10	10	80
<i>S. quadricauda</i>	---	---	32	---	---	---	---
<i>S. sp.</i>	---	---	---	---	---	5	---
<i>Schroederia setigera</i>	42	40	45	20	59	25	39
<i>Selenastrum minutum</i>	---	---	3	---	---	---	---
<i>Tetradion caudatum</i>	---	5	3	5	10	---	---
<i>T. minimum</i>	5	---	3	2	5	---	---
<i>Tetrasstrum staurogeniaeforme</i>	---	---	---	---	---	---	---
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	---	5	---	---	5	---	---
<i>A. minutissima</i>	5	3	5	---	---	---	5
<i>Amphora ovalis</i>	5	---	5	2	---	5	---
<i>Caloneis amphibaena</i>	---	---	---	---	---	5	5
<i>Cocconeis placentula</i>	146	76	78	39	78	45	112
<i>Cyclotella meneghiniana</i>	167	91	68	71	64	162	83
<i>Cymbella cistula</i>	5	---	3	10	24	---	---
<i>C. mexicana</i>	---	---	---	---	---	---	5
<i>C. minuta</i>	21	3	13	2	15	---	5
<i>C. sinuata</i>	---	---	3	2	3	10	5
<i>C. tumida</i>	21	25	28	15	15	25	34
<i>Diatoma vulgare</i>	5	5	3	---	5	---	---
<i>Epithemia borex</i>	---	---	---	---	---	---	5
<i>Frugilaria construens</i>	502	63	434	474	640	682	606
<i>F. crotonensis</i>	---	---	---	5	---	---	---
<i>Gomphonema herculeana</i>	---	8	3	15	5	10	---
<i>Gomphonema parvulum</i>	73	73	76	68	93	111	39
<i>G. subclavatum</i>	37	30	23	20	30	20	29
<i>G. tenellum</i>	10	3	3	---	5	5	---
<i>Melosira granulata</i>	42	3	10	---	---	---	16
<i>M. varians</i>	5	5	---	22	20	5	10
<i>Naviola capitata</i>	---	---	---	---	---	---	5
<i>N. cryptocephala</i>	10	3	18	5	15	5	15
<i>N. cuspidata</i>	5	---	---	---	---	---	---
<i>N. heufleri</i>	5	5	5	5	5	---	---
<i>N. minuscula</i>	31	33	18	20	39	15	44
<i>N. mutica</i>	---	3	18	10	10	25	20
<i>N. pupula</i>	131	68	76	46	78	91	117
<i>N. rhynchocephala</i>	---	---	---	---	---	5	---
<i>N. salinarium</i>	272	220	126	127	191	232	220
<i>N. tripunctata</i>	10	---	10	2	---	---	---
<i>N. vanheurnkii</i>	---	---	---	---	---	5	---
<i>N. viridula</i>	10	5	3	5	---	---	---
<i>Neidium</i> sp.	10	35	30	112	20	30	39
<i>Nitzschia acicularis</i>	99	114	88	90	122	81	93
<i>N. amphibia</i>	---	---	---	---	---	5	---
<i>N. apiculata</i>	16	3	3	10	24	10	10
<i>N. communis</i>	31	23	18	17	44	25	29
<i>N. dissipata</i>	57	5	5	5	10	10	29
<i>N. holsetica</i>	251	98	152	130	171	263	152
<i>N. Kuetzingiana</i>	---	3	3	15	5	5	5
<i>N. linearis</i>	214	139	136	112	166	222	220
<i>N. palea</i>	5	---	---	---	---	---	---
<i>N. tryblionella</i>	26	40	30	20	15	81	64
<i>N. sp.</i>	21	8	5	2	5	15	24
<i>Rhoicosphenia curvata</i>	42	8	8	10	24	10	---
<i>Stephanodiscus Hantzschii</i>	---	---	---	2	---	---	---
<i>Surirella ovata</i>	---	3	---	5	10	---	5
<i>Synedra delicatissima</i>	---	8	3	5	10	20	---
<i>S. ulna</i>	---	---	---	2	---	---	---
<i>Tabellaria fenestrata</i>	---	---	---	---	---	---	---
Chrysophyceae							
<i>Mallomonas</i> sp.	---	---	3	---	---	---	5
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	5	5	10	17	5	10	10
<i>Cryptomonas</i> sp.	47	18	13	12	15	40	44

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1300 hr)	(1730 hr)	(2130 hr)	(0100 hr)	(0415 hr)	(0930 hr)	(1145 hr)
Site 36 - TRUCKEE RIVER AT DERBY DAM--Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	16	5	20	12	10	10	29
Immature cyanophyta trichome	5	3	--	12	--	5	5
<i>Merismopedia tenuissima</i>	165	123	60	--	--	80	80
Miscellaneous flagellates	178	146	139	105	142	237	235
TOTAL	3332	2114	2219	2173	2565	3261	2763

TABLE 8.—Phytoplankton taxa and cell counts, August 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980	
	(1200 hr)	(2000 hr)	(2400 hr)	(0845 hr)	(1230 hr)
Site 39 - TRUCKEE RIVER AT PAINTED ROCK BRIDGE					
CHLOROPHYTA (green algae)					
Chlorophyceae					
<i>Actinastrum hantzschii</i>	116	304	228	224	360
<i>Arkiastrodesmus falcatulus</i>	59	33	28	20	33
<i>Chlorophyta flagellate</i>	5	—	—	5	5
<i>Chodatella quadriseta</i>	5	—	2	—	5
<i>Chlosteriopsis longissima</i>	5	—	—	—	—
<i>Coelastrum microsporum</i>	40	80	40	160	—
<i>Coenarium</i> sp.	—	—	2	—	—
<i>Eudorina elegans</i>	80	80	—	—	—
<i>Microactinium pusillum</i>	40	20	24	60	60
<i>Oocystis</i> sp.	—	—	7	—	25
<i>Pandorina morum</i>	—	—	16	—	—
<i>Pediastrum Boryanum</i>	120	40	—	—	—
<i>P. duplex</i>	—	240	16	—	—
<i>P. tetras</i>	60	—	—	40	—
<i>Scenedesmus abundans</i>	130	20	24	90	18
<i>S. bijuga</i>	10	50	10	—	—
<i>S. denticulatus</i>	20	—	20	—	36
<i>S. dimorphus</i>	20	—	—	80	132
<i>S. opoliensis</i>	20	60	20	60	56
<i>S. quadricauda</i>	60	86	12	20	—
<i>S. sp.</i>	—	20	—	40	36
<i>Schroederia aetigera</i>	—	5	2	5	—
<i>Selenastrum minutum</i>	73	85	40	51	213
<i>Tetraedron caudatum</i>	—	5	—	—	5
<i>T. minimum</i>	—	14	—	10	5
<i>T. trigonum</i>	—	—	—	10	—
<i>Tetrastrum staurogeniaeforme</i>	—	—	2	—	14
CHRYSTOPHYTA					
Bacillariophyceae (diatoms)					
<i>Achnanthes lanceolata</i>	—	—	2	5	5
<i>A. minutissima</i>	—	9	2	10	—
<i>Amphora ovalis</i>	—	—	—	5	—
<i>Caloneis amphibiaena</i>	—	5	—	—	—
<i>Cyclotella Meneghiniana</i>	342	8	116	217	180
<i>Cymbella oistula</i>	—	5	—	—	—
<i>C. tumida</i>	34	9	28	40	19
<i>Diatoma vulgare</i>	—	28	9	—	9
<i>Fragilaria construens</i>	117	237	78	222	208
<i>Gomphonema herculeana</i>	—	5	2	5	5
<i>Gomphonema parvulum</i>	112	90	102	51	66
<i>G. subclavatum</i>	34	14	17	20	5
<i>G. tenellum</i>	15	—	—	—	—
<i>Melosira granulata</i>	20	9	10	25	33
<i>M. varians</i>	20	28	5	51	9
<i>Navicula cryptocephala</i>	—	5	12	—	9
<i>N. cuspidata</i>	—	5	2	—	—
<i>N. heugleri</i>	—	5	—	—	—
<i>N. minuscula</i>	24	14	24	15	33
<i>N. mutica</i>	5	—	—	—	9
<i>N. pupula</i>	127	123	83	96	123
<i>N. pygmaea</i>	—	5	2	5	5
<i>N. salinarium</i>	259	170	121	278	194
<i>N. tripunctata</i>	—	—	2	—	—
<i>N. vanheurnskii</i>	—	5	—	—	—
<i>N. viridula</i>	5	—	—	10	—
<i>Nitzschia acicularis</i>	20	19	36	30	48
<i>N. amphibia</i>	147	147	88	141	71
<i>N. communis</i>	20	9	2	10	14
<i>N. dissipata</i>	29	28	19	5	20
<i>N. holaeiica</i>	10	28	9	40	—
<i>N. Kuetzingiana</i>	152	128	83	202	152
<i>N. linearis</i>	—	9	—	—	—
<i>N. palea</i>	239	133	130	258	142
<i>N. tryblionella</i>	—	5	—	5	—
<i>N. sp.</i>	54	24	33	51	43
<i>Rhoicosphenia curvata</i>	5	19	5	15	24
<i>Stephanodiscus hantzschii</i>	24	43	36	35	28
<i>Synedra delicatissima</i>	—	—	5	—	—
<i>S. ulna</i>	64	85	38	56	9
Chrysophyceae					
<i>Mallomonas</i> sp.	—	—	—	5	—
CRYPTOPHYTA (cryptomonads)					
Cryptophyceae					
<i>Chroomonas</i> sp.	10	19	5	30	14
<i>Cryptomonas</i> sp.	20	9	5	35	19
CYANOPHYTA (blue-green algae)					
Myxophyceae					
<i>Anabaena spiroides</i>	20	9	5	10	9
Immature cyanophyta trichome	—	—	5	—	14
<i>Merismopedia tenuissima</i>	—	—	24	40	—
<i>Microcystis incerta</i>	—	9	—	10	5
<i>Oscillatoria</i> sp.	10	5	—	—	5
Miscellaneous flagellates	200	166	107	283	251
TOTAL	3001	2815	1745	3191	2783

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1230 hr)	(1630 hr)	(2015 hr)	(0015 hr)	(0445 hr)	(0830 hr)	(1245 hr)
Site 43 - HERMAN DITCH RETURN AT WADSWORTH							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	112	36	72	120	88	192	80
<i>Ankistrodesmus falcatus</i>	--	28	14	18	5	30	5
<i>Chlorophyta flagellate</i>	46	28	--	5	--	32	29
<i>Chodatella quadriseta</i>	--	5	--	2	--	--	--
<i>Coelastrum microsporum</i>	--	--	--	--	--	80	--
<i>Eudorina elegans</i>	40	--	--	--	--	--	--
<i>Kirchneriella subsolitaria</i>	--	20	--	28	--	--	20
<i>Microactinium pusillum</i>	--	--	--	100	24	20	--
<i>Oocystis</i> sp.	--	--	--	--	--	--	10
<i>Pandorina morum</i>	--	--	--	--	--	--	80
<i>Pediastrum duplex</i>	40	40	72	--	48	--	--
<i>Scenedesmus abundans</i>	--	20	--	--	8	54	--
<i>S. bijuga</i>	28	--	18	22	--	18	20
<i>S. denticulatus</i>	20	--	--	--	--	--	20
<i>S. dimorphus</i>	--	296	--	--	16	20	40
<i>S. opoliensis</i>	20	--	--	8	48	36	--
<i>S. quadricauda</i>	76	46	--	44	20	20	60
<i>S. sp.</i>	36	--	--	--	8	10	40
<i>Schroederia setigera</i>	--	5	5	--	--	--	--
<i>Selenastrum minutum</i>	142	266	78	51	27	73	122
<i>Tetradion caudatum</i>	--	--	--	2	--	--	5
<i>T. minimum</i>	5	--	5	2	--	32	5
<i>T. regulare</i>	--	--	5	--	--	--	--
<i>T. trigonum</i>	5	--	5	--	--	--	24
<i>Tetrastrum staurogeniaeforme</i>	--	--	5	--	--	--	--
<i>Treubaria setigerum</i>	--	--	--	--	2	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes curta</i>	--	--	--	--	--	5	--
<i>Cocconeis placentula</i>	32	--	9	2	5	14	34
<i>Coccinodiscus</i> sp.	--	5	--	--	--	--	--
<i>Cyclotella Meneghiniana</i>	73	69	9	53	56	55	68
<i>C. ocellata</i>	--	--	--	2	--	--	--
<i>Cymbella minuta</i>	--	--	5	--	--	--	--
<i>C. sinuata</i>	--	--	--	2	2	5	--
<i>C. tumida</i>	--	--	--	5	--	--	--
<i>Fragilaria construens</i>	--	--	--	9	7	--	--
<i>Gomphonema herculeana</i>	5	--	--	--	--	--	--
<i>Gomphonema parvulum</i>	9	14	5	28	37	5	54
<i>G. subclavatum</i>	9	9	--	7	44	32	39
<i>G. tenellum</i>	5	--	9	--	--	5	--
<i>Melosira granulata</i>	--	--	9	--	7	32	20
<i>M. varians</i>	--	--	--	5	--	--	--
<i>Navicula cryptocephala</i>	--	--	--	9	2	--	10
<i>N. heufleri</i>	60	32	18	9	15	18	49
<i>N. minuscula</i>	--	--	--	9	2	9	5
<i>N. pupula</i>	60	18	18	53	32	73	78
<i>N. pygmaea</i>	--	--	--	9	2	--	--
<i>N. salinarum</i>	--	14	9	32	20	5	10
<i>Nitzschia acicularis</i>	9	14	5	9	--	18	15
<i>N. amphibia</i>	--	--	--	9	22	14	15
<i>N. communis</i>	--	--	--	2	--	5	--
<i>N. dissipata</i>	5	--	--	--	5	9	10
<i>N. holsetica</i>	28	41	9	--	29	9	--
<i>N. Kuetzingiana</i>	248	367	28	34	122	413	230
<i>N. linearis</i>	--	--	--	--	--	--	5
<i>N. palea</i>	33	161	60	78	78	280	147
<i>N. tryblionella</i>	--	--	--	--	--	5	--
<i>N. sp.</i>	14	9	--	--	15	41	20
<i>Rhoicosphenia curvata</i>	--	--	--	--	--	--	5
<i>Stephanodiscus Hantzschii</i>	78	73	64	76	56	46	29
<i>Synedra ulna</i>	--	5	--	2	2	--	15
Chrysophyceae							
<i>Mallomonas</i> sp.	--	9	--	2	--	--	15
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	18	5	5	18	12	51	39
<i>Cryptomonas</i> sp.	18	32	5	14	23	14	15
CYANOPHYTA (blue-green algae)							
Nyxophyceae							
<i>Anabaena spiroides</i>	--	--	--	2	7	--	5
<i>A. sp.</i>	14	46	--	--	2	--	--
<i>Dactylococcopsis Smithii</i>	37	18	9	2	15	--	20
<i>Gomphosphaeria lacustris</i>	--	--	--	--	32	--	--
Immature cyanophyta trichome	9	5	--	21	2	28	10
<i>Merismopedia tenuissima</i>	--	--	160	88	16	80	--
<i>Microcystis incerta</i>	--	--	5	5	2	5	--
<i>Oscillatoria</i> sp.	41	14	9	9	12	5	--
<i>Raphidiopsis mediterranea</i>	--	5	--	--	--	--	10
EUGLENOPHYTA (euglenoids)							
<i>Euglena</i> sp.	5	--	--	--	--	--	--
<i>Phacus</i> sp.	5	--	--	--	--	--	--
Miscellaneous flagellates	2456	1506	1625	583	474	790	3789
TOTAL	3841	3261	2354	1579	1453	2683	5326

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1215 hr)	(1615 hr)	(2000 hr)	(2400 hr)	(0430 hr)	(0815 hr)	(1230 hr)
Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	176	284	76	80	196	360	56
<i>Ankistrodesmus falcatus</i>	274	232	104	78	142	19	115
<i>Chlorophyta flagellate</i>	20	15	5	5	20	--	9
<i>Chodatella quadriseta</i>	5	5	--	--	--	--	--
<i>Closteriopsis longissima</i>	--	5	--	--	--	--	--
<i>Closterium</i> sp.	--	--	5	--	--	5	--
<i>Coelastrum microsporum</i>	120	--	--	120	40	40	--
<i>Cosmarium botrytis</i>	--	--	--	5	--	--	--
<i>Dicryocephalum pulchellum</i>	--	--	--	--	20	--	--
<i>Eudorina elegans</i>	--	80	--	--	--	--	--
<i>Gloeocystis vesiculosa</i>	--	--	--	--	--	90	--
<i>Colerkinia radiata</i>	5	5	--	--	--	--	--
<i>Kirchneriella subolitaria</i>	20	80	--	--	20	20	--
<i>Microactinium pusillum</i>	--	20	80	80	180	76	40
<i>Oocystis</i> sp.	--	--	--	5	20	--	--
<i>Pediastrum Boryanum</i>	80	40	--	80	--	--	80
<i>P. duplex</i>	80	--	--	80	80	72	--
<i>P. simplex</i>	--	--	72	--	--	--	--
<i>P. tetras</i>	80	--	--	--	40	40	40
<i>Quadrigula chodatii</i>	--	--	--	--	20	20	--
<i>Scenedesmus abundans</i>	196	140	66	80	156	76	140
<i>S. bijuga</i>	30	40	18	20	40	76	96
<i>S. denticulatus</i>	80	80	--	--	--	20	--
<i>S. dimorphus</i>	176	180	36	240	240	324	204
<i>S. opoliensis</i>	146	224	76	136	176	182	160
<i>S. quadricauda</i>	70	90	64	80	20	--	76
<i>S. sp.</i>	--	40	--	--	20	20	--
<i>Schroederia setigera</i>	10	--	--	--	--	--	--
<i>Selenastrum minutum</i>	186	298	156	64	93	175	174
<i>Staurastrum seabaldi</i>	--	--	--	5	--	--	--
<i>Tetraedron caudatum</i>	5	5	--	--	5	--	--
<i>T. minimum</i>	34	56	9	10	34	24	28
<i>T. regulare</i>	--	--	--	--	5	5	--
<i>T. trigonum</i>	6	--	--	--	5	--	14
<i>Tetrastrum staurogeniaeforme</i>	--	15	--	5	10	19	23
<i>Traubaria setigerum</i>	--	5	--	5	--	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes curta</i>	--	--	--	5	--	--	--
<i>A. minutissima</i>	5	--	--	--	--	--	--
<i>Caloneis amphibaena</i>	5	5	--	--	--	--	--
<i>Cocconeis placentula</i>	44	25	28	44	54	14	28
<i>Cyclotella Meneghiniana</i>	244	384	218	181	152	213	275
<i>Cymbella minuta</i>	--	--	5	--	--	--	--
<i>C. striata</i>	--	--	5	--	--	--	--
<i>C. tumida</i>	29	50	14	54	15	9	32
<i>Diatoma vulgare</i>	5	10	5	20	10	5	28
<i>Fragilaria construens</i>	10	--	80	332	205	47	367
<i>F. viucheriae</i>	5	--	--	--	--	--	--
<i>Gomphonema herculeana</i>	5	5	--	--	--	9	--
<i>Gomphonema parvulum</i>	15	40	24	44	54	38	73
<i>G. subulatum</i>	15	15	24	10	15	5	14
<i>G. tonsillum</i>	15	15	9	5	20	--	5
<i>Melosira granulata</i>	--	40	19	--	--	--	28
<i>M. varians</i>	24	20	--	5	--	24	9
<i>Navicula cryptocephala</i>	--	10	9	--	--	5	5
<i>N. heufleri</i>	--	--	5	10	--	--	--
<i>N. minuscula</i>	10	--	24	5	10	9	41
<i>N. mutica</i>	--	--	--	--	--	5	--
<i>N. pupula</i>	68	56	57	78	24	71	60
<i>N. pygmaea</i>	--	--	--	--	--	--	5
<i>N. salinarum</i>	122	157	80	112	83	109	142
<i>N. viridula</i>	--	10	--	--	--	--	9
<i>Nitzschia acicularis</i>	44	66	24	54	34	43	18
<i>N. amphibia</i>	137	162	156	137	103	85	161
<i>N. communis</i>	24	10	5	24	10	9	9
<i>N. dissipata</i>	20	25	--	24	34	19	32
<i>N. holsteinia</i>	20	10	19	20	15	9	28
<i>N. Kuetzingiana</i>	235	121	71	142	127	175	133
<i>N. linearis</i>	--	--	--	--	5	--	--
<i>N. palea</i>	171	141	85	142	98	128	174
<i>N. sp.</i>	29	30	14	29	15	47	32
<i>Rhizosolenia curvata</i>	--	--	--	--	5	--	--
<i>Stephanodiscus Hantzschii</i>	132	76	47	64	137	104	87
<i>Synedra ulna</i>	196	399	147	137	68	95	363
Chrysophyceae							
<i>Mallomonas</i> sp.	10	--	--	5	--	--	--
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	15	10	5	24	24	24	32
<i>Cryptomonas</i> sp.	34	30	9	10	10	14	9

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1215 hr)	(1615 hr)	(2000 hr)	(2400 hr)	(0430 hr)	(0815 hr)	(1230 hr)
Site 44 - TRUCKEE RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT WADSWORTH--Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	5	30	5	5	10	--	5
<i>A. sp.</i>	--	5	--	--	--	--	--
<i>Dactylococcopsis Smithii</i>	--	5	--	--	--	--	9
Immature cyanophyta trichome	10	5	--	--	5	5	--
<i>Merismopedia tenuisima</i>	80	320	40	120	40	272	40
<i>Microcystis inserta</i>	5	5	14	5	10	--	5
<i>Oscillatoria sp.</i>	--	5	5	--	--	--	--
<i>Raphidiopsis mediterranea</i>	10	--	--	--	--	--	--
TOTAL	3597	4236	2019	3025	2984	3255	3513

TABLE 8.—Phytoplankton taxa and cell counts, August 1980—Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1200 hr)
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	164	60	112	180	160	176	300
<i>Arktostoeus falcatius</i>	119	170	119	96	147	200	161
<i>Chlorophyta flagellate</i>	5	28	9	45	18	68	33
<i>Chodatella quadriseta</i>	—	—	—	—	4	—	—
<i>Closterium</i> sp.	—	9	5	—	4	5	5
<i>Coelastrum microsporum</i>	—	—	—	—	32	—	—
<i>Cosmarium botrytis</i>	—	—	5	—	—	—	—
<i>Diatyosphaerium pulchellum</i>	—	—	140	140	—	80	80
<i>Elakototrix gelatinosa</i>	—	—	—	10	—	—	—
<i>E. viridis</i>	—	10	—	20	—	—	—
<i>Eudorina elegans</i>	—	—	—	—	80	—	—
<i>Kirchneriella subolitaria</i>	36	20	20	—	36	—	56
<i>Microactinium pusillum</i>	—	36	—	—	72	20	20
<i>Oocystis</i> sp.	—	—	20	5	—	—	—
<i>Pediastrum Boryanum</i>	80	224	80	—	192	80	80
<i>P. duplex</i>	40	184	—	80	—	80	—
<i>P. simplex</i>	80	—	—	—	64	—	—
<i>P. tetras</i>	—	—	72	80	32	120	92
<i>Scenedesmus abundans</i>	128	228	108	40	52	256	230
<i>S. bijuga</i>	76	96	96	110	50	80	106
<i>S. denticulatus</i>	36	96	36	40	72	40	36
<i>S. dinophus</i>	188	76	108	60	180	160	188
<i>S. opoliensis</i>	184	130	92	150	124	196	172
<i>S. quadricauda</i>	56	106	94	—	34	30	54
<i>S. sp.</i>	—	36	10	—	18	40	—
<i>Schroederia aestivans</i>	—	—	—	—	—	5	—
<i>Salenastrium minutum</i>	92	194	138	66	22	64	118
<i>Tetradon caudatum</i>	5	—	—	—	4	—	—
<i>T. minimum</i>	55	28	37	25	18	15	5
<i>T. regulare</i>	—	—	5	—	—	—	—
<i>T. trigonum</i>	5	—	5	5	—	—	14
<i>Tetradon stauronegiaeforme</i>	—	5	18	5	13	15	9
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	—	—	5	—	—	5	5
<i>Cocconeis placentula</i>	28	33	51	71	40	20	62
<i>Cyclotella Meneghiniana</i>	165	227	216	227	120	137	170
<i>Cymbella sinuata</i>	—	—	—	5	—	5	—
<i>C. tumida</i>	9	9	—	10	4	10	9
<i>Diatoma vulgare</i>	83	114	32	76	49	29	71
<i>Fragilaria construens</i>	138	137	142	152	205	98	128
<i>Gomphonema parvulum</i>	64	52	78	116	49	73	47
<i>G. subolatum</i>	41	28	32	25	9	39	57
<i>G. tenuillum</i>	—	5	—	—	4	—	5
<i>Melosira distans</i>	—	—	—	15	—	—	—
<i>M. granulata</i>	9	9	—	—	—	10	19
<i>M. varians</i>	—	—	—	9	—	—	—
<i>Navicula cryptocephala</i>	5	5	—	—	—	—	5
<i>N. cuspidata</i>	—	5	—	—	—	—	—
<i>N. exigua</i>	—	—	5	—	—	—	—
<i>N. heufleri</i>	5	—	—	—	—	—	—
<i>N. minuscula</i>	9	5	—	10	—	5	5
<i>N. pupula</i>	9	28	—	35	4	20	9
<i>N. pygmaea</i>	—	—	—	5	—	—	5
<i>N. salinarum</i>	46	33	64	35	40	44	43
<i>N. tripunctata</i>	—	—	5	5	—	—	—
<i>N. viridula</i>	—	—	5	—	4	—	—
<i>Nitzschia acicularis</i>	41	38	64	30	31	15	57
<i>N. amphibia</i>	51	33	32	35	36	34	43
<i>N. communis</i>	5	—	—	10	4	—	—
<i>N. dissipata</i>	—	14	—	—	—	—	—
<i>N. hololepta</i>	—	—	9	—	—	—	—
<i>N. Kuetszingiana</i>	119	33	51	35	36	83	97
<i>N. linearis</i>	5	—	5	—	—	10	5
<i>N. palea</i>	51	47	41	25	36	44	14
<i>N. sp.</i>	14	—	14	5	—	—	—
<i>Stephanodiscus Hantzschii</i>	138	161	179	136	160	127	313
<i>Synedra ulna</i>	340	450	455	727	624	332	587
Chrysophyceae							
<i>Malomonas</i> sp.	5	5	5	5	—	—	—
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	5	33	28	15	13	15	33
<i>Cryptomonas</i> sp.	23	24	28	20	22	39	38
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	5	5	5	—	9	—	5
<i>Coelosphaerium Kuetszingianum</i>	320	—	320	100	—	—	—
<i>Gomphosphaeria lacustris</i>	—	—	—	—	—	140	—
<i>Merismopedia tenuissima</i>	160	344	120	—	—	40	80
<i>Microcystis incerta</i>	9	19	18	5	4	10	9
<i>Oscillatoria</i> sp.	—	5	—	—	—	—	—
<i>Rapidiopsis mediterranea</i>	5	—	—	—	—	—	—

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued
 [Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1200 hr)
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON--Continued							
EUGLENOPHYTA (euglenoides)							
<i>Euglena</i> sp.	--	5	--	--	--	--	--
<i>Phacus</i> sp.	5	--	--	--	--	--	--
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Peridinium</i> sp.	--	5	--	--	--	--	--
Miscellaneous flagellates	344	388	230	247	223	181	213
TOTAL	3605	4035	3568	3353	3154	3295	3893

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1245 hr)	(1645 hr)	(2045 hr)	(0030 hr)	(0445 hr)	(0830 hr)	(1200 hr)
Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum hantzschii</i>	292	328	96	520	480	504	236
<i>Ankistrodesmus falcatus</i>	496	367	427	275	352	290	261
<i>Chlorophyta flagellate</i>	51	23	18	9	13	38	25
<i>Chodatella quadrieta</i>	--	5	--	5	--	4	--
<i>Closteriopsis longissima</i>	--	5	--	--	--	--	--
<i>Closterium</i> sp.	5	--	--	--	4	--	--
<i>Coelastrum microsporum</i>	--	--	40	--	32	32	--
<i>Dictyosphaerium pulchellum</i>	184	20	60	80	88	--	84
<i>Golenkinia radiata</i>	--	23	14	--	9	--	--
<i>Kirchneriella subeolitana</i>	--	56	72	92	--	36	--
<i>Microactinium pusillum</i>	132	176	20	108	128	68	48
<i>Oocystis</i> sp.	9	40	--	45	9	36	20
<i>Pandorina morum</i>	80	40	--	--	--	--	--
<i>Pediastrum boryanum</i>	--	80	240	--	--	352	96
<i>P. duplex</i>	--	--	--	80	84	64	--
<i>P. tetras</i>	72	40	60	112	120	136	80
<i>Scenedesmus abundans</i>	164	240	82	36	72	52	116
<i>S. bijuga</i>	150	212	120	64	24	124	108
<i>S. denticulatus</i>	20	36	20	36	36	16	16
<i>S. dimorphus</i>	148	36	36	56	144	104	104
<i>S. opoliensis</i>	192	46	122	302	132	148	152
<i>S. quadricauda</i>	100	112	56	46	70	24	68
<i>S. sp.</i>	90	18	54	72	--	44	110
<i>Schroederia setigera</i>	--	--	--	--	--	9	4
<i>Selenastrum minutum</i>	161	308	184	51	27	43	76
<i>S. westii</i>	36	--	20	--	36	--	32
<i>Tetradion caudatum</i>	5	5	5	--	4	--	4
<i>T. minimum</i>	18	28	28	9	22	9	34
<i>T. regulare</i>	--	--	--	5	4	--	--
<i>T. trigonum</i>	14	5	5	--	--	--	4
<i>Tetrastrum staurogenitaeforme</i>	28	23	18	14	36	22	8
<i>Treubaria setigerum</i>	--	5	--	--	4	--	--
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Amphora ovalis</i>	--	--	--	--	--	--	8
<i>Cocconeis pediculus</i>	46	28	37	87	49	69	101
<i>C. placentula</i>	32	18	23	28	31	13	34
<i>Cyclotella meneghiniana</i>	147	115	92	106	98	87	105
<i>Cymbella tumida</i>	5	--	--	--	--	--	--
<i>Diatoma vulgare</i>	--	14	5	5	4	4	--
<i>Epithemia sorex</i>	--	--	--	--	--	4	--
<i>Fragilaria construens</i>	9	--	18	225	62	56	17
<i>F. crotonensis</i>	--	--	9	--	--	--	--
<i>Gomphonema parvulum</i>	37	23	14	37	9	26	38
<i>G. subulavatum</i>	5	9	--	--	4	--	4
<i>G. tenellum</i>	9	5	5	--	13	--	8
<i>Gyrosigma</i> sp.	5	--	--	--	--	4	--
<i>Melosira distans</i>	--	--	9	--	--	--	--
<i>M. granulata</i>	23	23	14	14	18	9	55
<i>M. varians</i>	--	--	--	--	9	--	--
<i>Navicula heufleri</i>	--	5	--	9	9	4	--
<i>N. pupula</i>	--	--	14	--	4	4	8
<i>N. salinarum</i>	5	9	9	5	9	13	--
<i>Nitzschia acicularis</i>	165	197	119	124	129	143	198
<i>N. amphibia</i>	9	5	--	9	00	4	13
<i>N. apiculata</i>	--	--	5	--	--	--	--
<i>N. communis</i>	5	18	9	--	--	--	8
<i>N. gracilis</i>	5	--	--	--	--	22	--
<i>N. holbatia</i>	64	46	64	28	9	35	34
<i>N. kuetzingiana</i>	129	161	67	37	80	134	147
<i>N. palea</i>	23	28	32	23	27	26	29
<i>N. sp.</i>	--	--	5	--	4	--	--
<i>Stephanodiscus hantzschii</i>	455	381	556	399	339	333	387
<i>Synedra ulna</i>	9	5	18	28	4	17	4
Chrysophyceae							
<i>Mallomonas</i> sp.	5	5	--	--	--	--	--
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	73	60	32	18	--	17	21
<i>Cryptomonas</i> sp.	32	37	23	55	18	22	25
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	5	5	5	--	--	4	--
<i>Coelastrum kuetzingianum</i>	--	320	--	500	616	976	416
<i>Dactylococcopsis smithii</i>	--	--	5	--	--	--	--
Immature cyanophyta trichome	5	5	--	--	--	4	13
<i>Merismopedia tenuissima</i>	192	288	72	392	32	224	256
<i>Microcystis incerta</i>	60	60	23	32	27	56	42
<i>Raphidiopsis mediterranea</i>	--	9	5	--	--	--	--
EUGLENOPHYTA (euglenoids)							
<i>Euglena</i> sp.	--	--	--	--	--	--	4
<i>Phacus</i> sp.	5	5	--	--	--	--	--

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued
[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1245 hr)	(1645 hr)	(2045 hr)	(0030 hr)	(0445 hr)	(0830 hr)	(1200 hr)
Site 62 - TRUCKEE RIVER AT STATE HIGHWAY 447 AT NIXON--Continued							
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium</i> sp.	18	--	--	--	31	--	--
<i>Peridinium</i> sp.	5	--	--	--	--	--	4
Miscellaneous flagellates	399	482	436	266	361	268	227
TOTAL	4433	4643	3522	4444	3930	4733	3892

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1130 hr)
Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum Hantzschii</i>	464	624	432	260	816	700	312
<i>Arkieirodesmus falcatus</i>	267	298	294	264	308	175	197
<i>Chlorophyta flagellate</i>	9	—	4	10	—	14	5
<i>Closteriopsis longissima</i>	—	5	—	—	—	—	—
<i>Coelastrum microsporum</i>	—	—	—	—	40	—	—
<i>Cruetigenia crucifera</i>	—	—	—	60	—	—	—
<i>Dictyosphaerium puchellum</i>	16	20	216	40	80	60	136
<i>Elakotothrix viridis</i>	—	10	—	20	—	—	—
<i>Glossocystis vesiculosa</i>	—	—	40	—	—	—	—
<i>Kirchpertella subaolitana</i>	72	—	—	40	36	20	36
<i>Microcystium pusillum</i>	48	40	32	80	116	40	180
<i>Nephrocystium Agardhianum</i>	—	—	—	—	40	—	—
<i>Oocystis</i> sp.	64	60	16	70	5	9	9
<i>Pandorina morum</i>	—	—	144	—	80	—	—
<i>Pediastrum Boryanum</i>	64	—	272	80	144	40	80
<i>P. duplex</i>	32	—	—	160	40	160	—
<i>P. simplex</i>	—	—	—	40	—	—	40
<i>P. tetras</i>	88	224	176	80	40	188	72
<i>Scenedesmus abundans</i>	126	56	60	126	76	142	92
<i>S. armatus</i>	88	36	16	60	—	36	—
<i>S. bijuga</i>	54	336	170	108	18	140	96
<i>S. denticulatus</i>	52	20	16	40	56	36	112
<i>S. dimorphus</i>	104	76	52	40	40	76	56
<i>S. opoliensis</i>	186	112	164	174	106	170	202
<i>S. quadricauda</i>	70	64	18	68	18	112	102
<i>S. sp.</i>	34	46	8	96	20	134	64
<i>Schroederia setigera</i>	—	5	—	15	—	9	5
<i>Selenastrum minutum</i>	45	147	104	93	43	33	37
<i>S. vestit</i>	16	36	—	—	40	—	—
<i>Staurastrum sebaldi</i>	—	5	—	—	—	—	—
<i>Tetraedron caudatum</i>	9	5	17	5	5	9	5
<i>T. minimum</i>	4	64	69	34	24	62	5
<i>T. trigonum</i>	4	9	—	20	—	9	5
<i>Tetrastrum staurogeniaeforme</i>	58	41	9	39	24	47	32
CHRYSTOPHYTA							
Bacillariophyceae (diatoms)							
<i>Amphora ovalis</i>	4	—	—	—	—	—	—
<i>Cocconeis pediculus</i>	4	9	4	—	—	5	18
<i>C. placentula</i>	—	—	—	10	—	—	—
<i>Cyclotella Meneghiniana</i>	89	73	48	64	95	43	78
<i>Cymatopleura solea</i>	—	—	—	—	—	—	9
<i>Diatoma vulgare</i>	—	—	—	—	—	—	—
<i>Fragilaria construens</i>	9	46	9	—	104	20	41
<i>F. vaucheriae</i>	—	—	—	5	—	—	—
<i>Gomphonema parvulum</i>	—	—	4	5	9	—	—
<i>Gyrosigma</i> sp.	4	—	—	—	—	—	—
<i>Melosira granulata</i>	71	9	43	147	109	142	18
<i>M. varians</i>	—	—	4	—	—	—	—
<i>Navicula heufleri</i>	—	—	4	—	—	—	5
<i>N. minuscula</i>	9	—	—	5	—	—	—
<i>N. mutica</i>	—	—	—	—	—	—	5
<i>N. pupula</i>	4	—	4	5	9	—	23
<i>N. salinarium</i>	9	9	9	10	—	19	5
<i>N. tripunctata</i>	—	5	—	—	—	—	—
<i>N. vanheurnhii</i>	9	—	—	5	—	—	9
<i>Neidium</i> sp.	—	—	—	—	5	—	—
<i>Nitzschia acicularis</i>	169	197	156	186	137	166	161
<i>N. apiculata</i>	—	—	—	—	5	—	5
<i>N. communis</i>	4	—	—	5	—	—	—
<i>N. dissipata</i>	—	—	4	5	—	—	5
<i>N. filiformis</i>	—	—	—	—	5	—	—
<i>N. gracilis</i>	9	14	13	5	—	19	5
<i>N. holsetica</i>	18	73	26	—	104	66	—
<i>N. Kuetzingiana</i>	98	129	108	83	19	57	92
<i>N. linearis</i>	—	—	—	—	5	—	—
<i>N. palea</i>	9	51	43	29	14	28	69
<i>N. sp.</i>	—	5	13	10	—	—	5
<i>Rhopalodia gibba</i>	—	—	—	—	—	—	5
<i>Stephanodiscus Hantzschii</i>	428	372	403	401	502	440	523
<i>Surirella ovata</i>	4	—	—	10	—	5	—
<i>Synedra delicatissima</i>	—	5	—	—	—	—	—
<i>S. ulna</i>	18	—	13	15	5	9	9
Chrysophyceae							
<i>Mallomonas</i> sp.	4	5	4	—	9	5	—
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	281	441	177	264	109	199	119
<i>Cryptomonas</i> sp.	94	60	117	88	43	52	41

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980		
	(1200 hr)	(1600 hr)	(2000 hr)	(2400 hr)	(0400 hr)	(0800 hr)	(1130 hr)
Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM--Continued							
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena spiroides</i>	--	18	4	--	--	9	--
<i>A. sp.</i>	--	--	4	--	--	--	--
<i>Coelosphaerium Kuetszingianum</i>	--	320	--	--	--	576	200
<i>Gomphosphaeria lacustris</i>	72	488	--	40	--	--	--
<i>Merismopedia tenuissima</i>	264	80	256	40	--	600	144
<i>Microcystis incerta</i>	31	18	22	10	28	--	23
<i>Raphidiopsis mediterranea</i>	--	--	4	10	5	--	5
EUGLENOPHYTA (euglenoids)							
<i>Euglena sp.</i>	--	--	--	--	--	--	5
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium sp.</i>	--	--	13	--	--	5	5
<i>Peridinium sp.</i>	--	--	4	10	--	5	--
Miscellaneous flagellates	432	427	403	288	341	526	367
TOTAL	4197	5193	4245	3877	3877	5426	3884

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1400 hr)	(1730 hr)	(2100 hr)	(0010 hr)	(0530 hr)	(0930 hr)	(1330 hr)
Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum hantzschii</i>	368	368	172	340	336	280	472
<i>Ankistrodesmus falcatus</i>	83	46	85	5	--	9	47
<i>Chlorophyta flagellate</i>	9	9	5	--	--	5	43
<i>Chodatella quadriseta</i>	9	9	14	--	--	--	9
<i>Closteriopsis longissima</i>	23	--	--	--	--	--	--
<i>Coelastrum microsporum</i>	184	--	152	--	144	80	--
<i>Elakototrix viridis</i>	--	10	--	--	--	--	--
<i>Eudorina elegans</i>	--	80	--	--	--	--	216
<i>Golenkinia radiata</i>	--	5	--	--	--	--	--
<i>Kirchneriella subglottaria</i>	--	--	--	--	16	--	--
<i>Microactinium pusillum</i>	200	148	36	240	144	96	112
<i>Oocystis</i> sp.	45	5	29	--	--	5	--
<i>Pandorina morum</i>	--	--	40	40	--	--	--
<i>Pediastrum boryanum</i>	120	80	--	--	--	80	--
<i>P. duplex</i>	--	--	--	40	--	--	--
<i>P. tetras</i>	--	--	40	--	--	--	--
<i>Scenedesmus abundans</i>	36	20	--	--	--	--	--
<i>S. armatus</i>	--	--	20	--	--	--	--
<i>S. bijuga</i>	56	56	--	10	8	18	70
<i>S. denticulatus</i>	--	20	--	40	52	--	--
<i>S. dimorphus</i>	20	20	76	92	16	20	--
<i>S. dimorphus</i>	--	--	76	--	44	48	--
<i>S. opoltenensis</i>	36	82	28	66	56	20	96
<i>S. quadricauda</i>	18	46	18	--	--	38	18
<i>S. sp.</i>	5	5	--	--	--	5	--
<i>Schroederia setigera</i>	239	239	204	24	9	41	161
<i>Selenastrum minutum</i>	20	--	--	--	--	--	--
<i>S. Westii</i>	--	--	--	--	4	--	--
<i>Tetraedron caudatum</i>	--	18	--	--	--	--	--
<i>T. minimum</i>	5	--	--	--	4	--	5
<i>T. trigonum</i>	9	9	--	9	--	--	5
<i>Tetrastrum staurogeniaeforme</i>	5	5	5	--	--	--	--
<i>Treubaria setigerum</i>	--	--	--	--	--	--	--
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes minutissima</i>	5	5	--	5	9	--	--
<i>Amphora ovalis</i>	5	5	--	--	--	9	--
<i>Cocconeis pediculus</i>	32	60	28	47	58	46	38
<i>C. placentula</i>	--	--	5	--	--	--	--
<i>Cyclotella bodanica</i>	422	459	275	284	241	285	355
<i>C. Meneghiniana</i>	--	--	5	--	--	--	--
<i>Cymatopleura solea</i>	--	--	14	5	--	9	--
<i>Cymbella cistula</i>	5	5	9	14	--	5	5
<i>C. minuta</i>	5	5	--	--	--	--	--
<i>C. sinuata</i>	5	9	--	24	18	9	14
<i>C. tumida</i>	--	5	--	24	13	9	--
<i>Diatoma vulgare</i>	--	--	--	5	--	--	--
<i>Diplomitis</i> sp.	--	--	--	--	13	--	--
<i>Epithemia sorax</i>	--	--	--	--	--	--	--
<i>Fragilaria constrictuensis</i>	--	18	19	24	134	--	--
<i>F. crotonensis</i>	--	--	--	90	45	--	--
<i>F. vaucheriae</i>	5	--	--	--	4	--	--
<i>Gomphonema herculeana</i>	--	--	--	--	--	--	--
<i>Gomphonema parvulum</i>	41	55	52	52	22	46	57
<i>G. subulatum</i>	9	18	5	5	13	9	14
<i>G. tenellum</i>	--	--	--	5	--	--	--
<i>Melosira distans</i>	9	--	--	19	--	--	--
<i>M. granulata</i>	147	--	24	71	--	--	66
<i>M. varians</i>	--	--	--	19	9	--	5
<i>Navicula cryptocephala</i>	--	--	--	5	9	--	--
<i>N. heufleeri</i>	5	5	--	5	--	9	14
<i>N. minuscula</i>	5	5	9	9	9	23	19
<i>N. nitica</i>	9	9	5	--	9	5	9
<i>N. pupula</i>	51	60	5	57	76	46	76
<i>N. pygmaea</i>	--	--	--	--	4	5	--
<i>N. salinarium</i>	87	73	123	128	107	78	109
<i>N. tripunctata</i>	9	--	5	--	4	--	5
<i>N. viridula</i>	9	9	--	9	13	9	9
<i>Neidium</i> sp.	--	--	--	5	--	--	--
<i>Nitzschia acicularis</i>	32	73	43	66	22	23	28
<i>N. amphibia</i>	37	23	43	24	31	51	5
<i>N. apiculata</i>	5	--	--	--	9	5	--
<i>N. communis</i>	9	5	9	5	4	14	5
<i>N. dissipata</i>	55	18	38	43	31	32	19
<i>N. filiformis</i>	--	5	--	--	--	5	--
<i>N. holotica</i>	14	9	19	24	18	18	9
<i>N. Kuetsingiana</i>	165	83	134	133	138	147	118
<i>N. linearis</i>	--	--	--	5	4	--	5
<i>N. palea</i>	133	92	133	133	111	87	208
<i>N. sublinearis</i>	9	14	--	5	4	9	9
<i>N. sp.</i>	60	101	62	38	18	41	80
<i>N. vermicularis</i>	--	--	9	--	--	--	--
<i>Rhotocosphenia curvata</i>	--	9	9	9	--	5	14
<i>Stephanodiscus hantzschii</i>	129	129	137	166	89	60	62
<i>Surirella ovata</i>	--	--	--	--	--	5	--
<i>Synedra delicatissima</i>	--	--	9	5	9	--	--
<i>S. rumpferi</i>	5	--	5	--	--	9	9
<i>S. ulna</i>	9	--	19	--	9	28	9
<i>Tabellaria fenestrata</i>	5	--	--	--	--	--	--

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1400 hr)	(1730 hr)	(2100 hr)	(0100 hr)	(0530 hr)	(0930 hr)	(1330 hr)
Site 69 - TRUCKEE CANAL AT U.S. HIGHWAY 95A NEAR FERNLEY--Continued							
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	18	46	43	14	4	37	38
<i>Cryptomonas</i> sp.	46	46	14	5	27	69	28
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena circinalis</i>	--	--	--	9	--	--	9
<i>A. spiroides</i>	18	--	--	--	9	5	--
<i>Gomphosphaeria lacustris</i>	100	120	--	--	--	--	--
<i>Merismopedia tenuissima</i>	--	80	112	80	96	80	472
<i>Microcystis incerta</i>	9	9	5	--	--	14	9
<i>Oscillatoria</i> sp.	--	5	--	--	--	--	--
<i>Raphidiopsis mediterranea</i>	5	5	--	5	4	--	5
EUGLENOPHYTA (euglenoids)							
<i>Euglena</i> sp.	5	--	5	--	--	--	9
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium</i> sp.	5	--	--	5	--	--	--
<i>Peridinium</i> sp.	5	--	--	--	--	--	5
Miscellaneous flagellates	381	271	341	223	165	358	379
TOTAL	3615	3223	2772	2819	2449	2449	3583

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1330 hr)	(1715 hr)	(2115 hr)	(0115 hr)	(0500 hr)	(0915 hr)	(1230 hr)
Site 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY							
CHLOROPHYTA (green algae)							
Chlorophyceae							
<i>Actinastrum hantzschii</i>	548	636	520	2004	1424	1640	1512
<i>Arkiatrodasmus falcatius</i>	66	129	115	114	57	102	106
<i>Chlorophyta flagellate</i>	66	144	14	38	19	89	106
<i>Chodatella quadriseta</i>	33	53	36	15	9	27	121
<i>C. longiseta</i>	—	8	14	—	—	—	—
<i>Closteriopsis longissima</i>	5	8	7	—	—	13	—
<i>Coelastrum microporum</i>	—	120	112	128	456	240	304
<i>Diatyosphaerium pulchellum</i>	36	240	168	368	120	32	—
<i>Eudorina elegans</i>	160	256	—	—	40	64	—
<i>Golenkinitia radiata</i>	—	—	43	23	—	—	8
<i>Kinohmaria subeolitaria</i>	—	—	—	32	20	—	92
<i>Micractinium pusillum</i>	92	180	552	516	498	904	608
<i>Oocystis</i> sp.	20	40	—	32	40	9	8
<i>Pandorina morum</i>	—	—	56	184	40	—	—
<i>Pediastrum Boryanum</i>	144	—	56	128	—	64	—
<i>P. duplex</i>	196	192	—	—	232	32	128
<i>P. simplex</i>	—	—	—	128	—	—	—
<i>P. tetras</i>	—	—	—	—	—	32	—
<i>Scenedesmus abundans</i>	112	60	28	244	112	180	64
<i>S. bijuga</i>	116	30	130	140	68	—	154
<i>S. denticulatus</i>	36	32	—	—	—	36	—
<i>S. dimorphus</i>	172	60	144	276	148	84	212
<i>S. opoliensis</i>	152	932	84	92	248	132	308
<i>S. quadricauda</i>	74	244	344	32	—	106	76
<i>S. sp.</i>	76	76	58	92	74	60	136
<i>Schroederia setigera</i>	9	—	—	23	28	13	30
<i>Selenastrum minutum</i>	450	727	231	83	57	98	417
<i>S. Westii</i>	—	—	28	—	—	—	32
<i>Tetradon caudatum</i>	—	8	—	—	—	4	8
<i>T. minutum</i>	5	15	14	23	—	49	—
<i>T. regulare</i>	5	—	7	—	5	—	8
<i>T. trigonum</i>	5	—	22	8	5	9	15
<i>Tetrasstrum staurogeniaeforme</i>	9	15	7	—	28	4	38
<i>Treubaria setigerum</i>	—	—	7	23	5	—	—
CHRYSOPHYTA							
Bacillariophyceae (diatoms)							
<i>Achnanthes lanceolata</i>	5	8	—	8	—	9	—
<i>A. minutissima</i>	5	—	7	8	—	—	—
<i>Amphora ovalis</i>	—	8	—	—	5	—	—
<i>Coscinella pediculus</i>	—	—	7	—	—	—	—
<i>C. placentula</i>	14	38	43	—	19	13	8
<i>Cyclotella Meneghiniana</i>	1075	2174	2403	1720	1155	1399	2295
<i>Cymbella osetula</i>	—	—	—	—	—	—	15
<i>C. minuta</i>	—	—	—	8	—	—	—
<i>C. tumida</i>	9	—	7	—	—	—	—
<i>Diatoma vulgare</i>	—	8	—	23	5	—	15
<i>Fragilaria ocnetrueae</i>	—	182	—	76	284	85	30
<i>F. crotonensis</i>	—	—	—	—	9	34	—
<i>Gomphonema herculeana</i>	—	—	—	8	—	—	—
<i>Gomphonema parvulum</i>	28	15	65	30	14	18	30
<i>G. subulatum</i>	—	—	—	—	9	—	—
<i>G. tenellum</i>	—	—	—	8	—	—	—
<i>Melosira distans</i>	9	—	—	—	—	—	23
<i>M. granulata</i>	28	68	94	121	52	116	106
<i>M. varians</i>	—	—	—	—	5	4	—
<i>Navicula cryptocephala</i>	—	8	—	23	—	—	8
<i>N. heufliertii</i>	—	8	14	—	—	4	8
<i>N. minutula</i>	9	—	—	8	5	9	8
<i>N. mutica</i>	—	—	—	8	—	—	8
<i>N. pupula</i>	19	45	51	38	—	4	15
<i>N. pygmaea</i>	—	8	—	—	—	—	8
<i>N. salinarum</i>	47	30	79	23	24	22	38
<i>N. tripunctata</i>	—	8	7	—	5	—	—
<i>N. viridula</i>	—	—	—	—	—	—	8
<i>Nitzschia acicularis</i>	57	174	115	159	189	129	121
<i>N. amphibia</i>	28	83	79	38	28	40	53
<i>N. communis</i>	5	23	22	8	5	—	23
<i>N. dissipata</i>	28	23	36	8	19	4	8
<i>N. holeatton</i>	33	—	—	30	—	18	—
<i>N. kuetzingiana</i>	284	379	325	295	180	250	288
<i>N. linearis</i>	—	—	—	8	—	—	—
<i>N. palea</i>	95	265	209	98	128	169	212
<i>N. sublinearis</i>	5	8	—	15	5	—	15
<i>N. sp.</i>	14	68	58	—	76	80	311
<i>Rhizosolenia curvata</i>	14	—	14	8	5	—	8
<i>Stephanodiscus hantzschii</i>	450	515	1118	629	488	272	644
<i>Surirella ovata</i>	—	8	—	—	—	—	8
<i>Synedra delicatissima</i>	9	15	—	30	19	4	30
<i>S. rumpens</i>	9	—	—	—	—	—	—
<i>S. ulna</i>	—	23	36	8	—	—	8
Chrysophyceae							
<i>Mallomonas</i> sp.	—	—	—	15	—	—	8

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980			Aug. 14, 1980			
	(1330 hr)	(1715 hr)	(2115 hr)	(0115 hr)	(0500 hr)	(0915 hr)	(1230 hr)
Site 71 - TRUCKEE CANAL AT ALLENDALE CHECK DAM NEAR FERNLEY--Continued							
CRYPTOPHYTA (cryptomonads)							
Cryptophyceae							
<i>Chroomonas</i> sp.	175	189	144	212	62	134	167
<i>Cryptomonas</i> sp.	156	136	79	182	71	125	144
CYANOPHYTA (blue-green algae)							
Myxophyceae							
<i>Anabaena circinalis</i>	5	8	7	8	5	9	23
<i>A. spiroides</i>	14	8	7	--	--	4	23
<i>Coelosphaerium Kuitzingianum</i>	200	--	--	800	--	--	--
<i>Gomphosphaeria lacustris</i>	100	--	--	64	--	176	--
<i>Merismopedia tenuissima</i>	80	368	728	1384	344	248	1336
<i>Microcystis incerta</i>	24	68	51	23	33	13	23
<i>Oscillatoria</i> sp.	--	--	--	--	5	--	--
<i>Raphidiopsis mediterranea</i>	9	8	7	8	9	9	--
PYRRHOPHYTA (fire algae)							
Dinophyceae							
<i>Gymnodinium</i> sp.	--	--	7	--	--	--	--
<i>Peridinium</i> sp.	--	--	22	8	--	--	--
Miscellaneous flagellates	772	470	360	220	374	375	750
TOTAL	6401	9652	8998	11114	7369	7799	11317

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

	Aug. 13, 1980				Aug. 14, 1980			
Taxa	(1230 hr)	(1630 hr)	(2030 hr)	(2400 hr)	(0400 hr)	(0815 hr)	(1130 hr)	
Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR								
CHLOROPHYTA (green algae)								
Chlorophyceae								
<i>Actinastrum hantzschii</i>	56	104	120	24	224	64	80	
<i>Ankistrodesmus falcatus</i>	176	193	136	86	131	148	72	
<i>Chlorophyta flagellate</i>	24	72	19	3	14	45	80	
<i>Chodatella quadriseta</i>	--	19	4	7	--	4	11	
<i>Closteriopsis longissima</i>	--	--	--	--	10	--	--	
<i>Closterium ceratium</i>	3	--	4	28	7	4	15	
<i>C. Kuetzingii</i>	--	--	--	--	3	--	--	
<i>Coelastrum microsporum</i>	--	--	98	--	--	--	128	
<i>Dictyosphaerium pulchellum</i>	36	--	--	24	48	112	416	
<i>Eudorina elegans</i>	--	--	--	--	--	--	128	
<i>Golenkinia radiata</i>	3	15	11	--	--	--	8	
<i>Kirchneriella subsolitaria</i>	28	32	32	--	28	16	16	
<i>Microactinium pusillum</i>	92	108	--	264	220	120	132	
<i>Oocystis</i> sp.	17	132	44	26	19	4	47	
<i>Pandorina morum</i>	--	--	--	56	--	--	--	
<i>Pediastrum Boryanum</i>	--	64	--	--	48	--	64	
<i>P. duplex</i>	48	--	128	128	--	--	--	
<i>P. simplex</i>	--	--	--	112	--	64	--	
<i>P. tetras</i>	--	--	--	36	24	32	32	
<i>Scenedesmus abundans</i>	28	92	24	--	74	140	164	
<i>S. armatus</i>	28	--	16	12	12	32	32	
<i>S. bijuga</i>	42	54	46	52	18	32	86	
<i>S. denticulatus</i>	--	16	16	12	28	32	--	
<i>S. dimorphus</i>	--	16	32	68	96	80	32	
<i>S. opolienensis</i>	56	92	40	12	120	84	92	
<i>S. quadricauda</i>	--	40	44	112	28	--	96	
<i>S. sp.</i>	48	32	8	18	84	24	122	
<i>Schroederia setigera</i>	--	19	--	14	28	53	8	
<i>Selenastrum minutum</i>	158	303	235	41	14	80	98	
<i>Tetradon caudatum</i>	3	--	--	--	3	--	4	
<i>T. minimum</i>	3	--	--	--	--	42	4	
<i>T. regulare</i>	--	--	--	--	--	--	4	
<i>T. trigonum</i>	7	8	--	3	3	11	15	
<i>Tetrasium staurogeniaeforme</i>	3	4	4	77	77	4	15	
<i>Treubaria setigerum</i>	--	--	--	--	--	--	8	
CHRYSTOPHYTA								
Bacillariophyceae (diatoms)								
<i>Achnanthes lanceolata</i>	3	--	--	--	--	--	4	
<i>A. minutissima</i>	21	--	--	10	17	--	11	
<i>Amphora ovalis</i>	--	--	--	--	--	4	--	
<i>Cocconeis pediculus</i>	--	4	--	21	3	8	--	
<i>C. placentula</i>	186	155	49	59	52	42	186	
<i>Cyclotella Meneghiniana</i>	79	201	117	207	203	303	371	
<i>Cymbella sinuata</i>	--	4	4	3	--	--	--	
<i>Diatoma vulgare</i>	--	--	--	--	3	--	--	
<i>Diploneis</i> sp.	--	--	--	--	--	4	--	
<i>Fragilaria construens</i>	--	--	--	17	55	61	11	
<i>F. crotonensis</i>	--	--	--	--	--	--	45	
<i>Gomphonema parvulum</i>	14	19	8	--	3	15	4	
<i>G. tenellum</i>	--	8	--	--	--	--	--	
<i>Melosira distans</i>	7	--	--	3	21	8	4	
<i>M. granulata</i>	17	53	53	148	59	30	19	
<i>M. varians</i>	--	--	--	--	7	11	--	
<i>Navicula cryptocephala</i>	14	4	19	--	7	8	--	
<i>N. exigua</i>	--	--	--	3	--	--	--	
<i>N. heufleui</i>	7	--	11	17	14	11	23	
<i>N. minuscula</i>	7	27	15	10	7	8	15	
<i>N. mutica</i>	3	--	--	3	--	--	--	
<i>N. pupula</i>	--	--	8	7	7	15	--	
<i>N. salinarum</i>	--	15	15	24	21	15	27	
<i>N. tripunctata</i>	--	4	--	7	3	--	8	
<i>Nitzschia acicularis</i>	31	80	76	21	69	98	49	
<i>N. amphibia</i>	7	--	8	--	14	--	11	
<i>N. communis</i>	10	11	4	3	--	4	--	
<i>N. dissipata</i>	7	--	--	--	--	--	--	
<i>N. gravis</i>	--	--	8	--	3	4	4	
<i>N. holbatia</i>	--	--	--	7	--	--	--	
<i>N. Kuetzingiana</i>	38	64	27	31	38	121	110	
<i>N. palea</i>	3	45	23	52	52	45	49	
<i>N. sublinearis</i>	3	4	--	--	21	--	8	
<i>N. sp.</i>	10	38	11	10	7	30	42	
<i>Rhoicosphenia curvata</i>	--	8	--	--	3	4	8	
<i>Stephanodiscus hantzschii</i>	289	511	330	303	548	504	822	
<i>Synedra ulna</i>	--	--	--	7	3	--	--	
Chrysophyceae								
<i>Mallomonas</i> sp.	--	--	4	--	3	--	--	

TABLE 8.--Phytoplankton taxa and cell counts, August 1980--Continued

[Phytoplankton cells per milliliter]

Taxa	Aug. 13, 1980				Aug. 14, 1980			
	(1230 hr)	(1630 hr)	(2030 hr)	(2400 hr)	(0400 hr)	(0815 hr)	(1130 hr)	
Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LARONTAN RESERVOIR--Continued								
CRYPTOPHYTA (cryptomonads)								
Cryptophyceae								
<i>Chroomonas</i> sp.	76	114	163	103	255	311	269	
<i>Cryptomonas</i> sp.	86	80	117	86	41	201	189	
CYANOPHYTA (blue-green algae)								
Myxophyceae								
<i>Anabaena circinalis</i>	7	--	11	10	10	15	--	
<i>A. spiroides</i>	--	11	--	14	7	--	11	
<i>A. sp.</i>	--	--	--	3	3	--	4	
<i>Coelosphaerium Kuetsingianum</i>	120	--	--	--	192	256	160	
<i>Gomphosphaeria lacustris</i>	--	64	--	264	468	80	112	
<i>Merismopedia tenuissima</i>	--	216	264	--	96	128	408	
<i>Microcystis incerta</i>	10	49	30	10	10	23	19	
<i>Oscillatoria</i> sp.	--	--	--	--	--	4	--	
<i>Raphidiopsis mediterranea</i>	--	--	--	3	3	--	4	
<i>Synechocystis aquatilis</i>	--	--	2667	--	--	--	--	
EUGLENOPHYTA (euglenoids)								
<i>Euglena</i> sp.	--	--	--	--	--	--	4	
PYRRHOPHYTA (fire algae)								
Dinophyceae								
<i>Gymnodinium</i> sp.	--	--	--	3	--	--	--	
<i>Peridinium</i> sp.	7	15	--	--	--	--	4	
Miscellaneous flagellates	417	652	288	162	275	314	284	
TOTAL	2338	3871	5391	2846	3964	3912	5312	

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980

DATE	TIME	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	ALKA- LINITY (MG/L AS CaCO ₃)	TUR- BID- ITY (NTU)	SEDI- MENT, SUS- PENDE (MG/L)
Site 14 - TRUCKEE RIVER NEAR VERDI										
FEB, 1980										
06...	0930	10.0	5.0	10.8	100	125	8.2	--	--	11
26...	1530	--	6.5	10.8	105	112	8.8	--	--	15
MAR										
13...	1030	6.5	3.0	11.6	107	126	8.0	--	4.5	7
21...	1100	1.0	3.0	12.2	108	125	8.7	--	5.9	5
APR										
03...	1200	11.0	5.7	11.6	107	118	9.7	--	--	--
09...	1130	--	7.8	10.8	93	110	8.3	--	--	47
17...	1030	--	6.2	10.4	99	89	7.7	--	12	28
Site 14A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR VERDI										
FEB, 1980										
26...	1230	--	4.3	--	--	118	7.6	--	--	--
MAR										
21...	1030	--	3.0	10.0	--	118	8.4	42	--	--
APR										
03...	1100	--	5.7	9.1	--	--	7.3	--	--	--
09...	1030	--	7.2	8.7	--	111	7.8	47	--	--
17...	1000	--	6.5	8.7	--	93	7.3	36	--	--
Site 16 - TRUCKEE RIVER NEAR SPARKS										
FEB, 1980										
01...	1600	--	3.0	12.0	--	127	--	--	--	--
05...	1000	6.5	5.5	11.0	102	143	--	--	--	26
08...	1500	--	5.0	11.5	106	139	--	--	--	--
28...	1130	9.5	5.5	10.5	97	125	8.4	--	18	23
MAR										
12...	1030	8.0	4.0	12.5	112	134	8.3	--	4.0	14
20...	1200	--	7.0	12.2	117	136	8.8	--	6.5	14
APR										
04...	0945	11.5	6.5	11.3	108	129	8.6	--	--	5
10...	1030	10.5	8.0	9.8	96	122	8.2	--	--	9
16...	1030	15.0	7.8	10.5	103	100	7.8	--	16	--
Site 16A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR SPARKS										
FEB, 1980										
08...	1600	--	5.0	11.0	--	138	8.1	--	--	--
28...	1130	--	5.2	9.9	--	123	8.0	--	13	--
MAR										
20...	1200	--	6.3	10.7	--	140	8.4	42	--	--
APR										
04...	1000	--	7.5	7.1	--	165	7.6	39	--	--
10...	1045	--	7.2	6.2	--	132	7.8	34	--	--
16...	1000	--	8.0	7.9	--	110	7.4	50	--	--
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH										
FEB, 1980										
04...	1700	--	7.0	10.7	98	277	--	--	--	--
26...	1200	15.5	7.9	10.4	100	248	8.0	--	--	--
Site 52A - TRUCKEE RIVER INTRAGRAVEL SITE BELOW S BAR S RANCH										
FEB, 1980										
08...	1130	--	5.5	10.0	--	300	8.0	--	--	--
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON										
FEB, 1980										
26...	1030	--	6.5	10.6	98	242	8.2	--	--	--
MAR										
11...	1130	9.0	8.2	10.4	102	247	8.4	--	--	28
19...	1030	10.0	6.0	12.0	110	245	8.2	--	13	34
APR										
03...	1015	11.0	8.0	11.8	115	282	8.2	--	--	15
07...	1200	--	9.8	10.9	110	--	--	--	--	--
09...	1045	19.5	11.4	11.0	118	253	8.4	--	--	--
15...	1430	--	14.5	10.2	113	193	8.4	--	13	130
Site 56A - TRUCKEE RIVER INTRAGRAVEL SITE AT DEAD OX WASH NEAR NIXON										
MAR, 1980										
19...	1030	--	6.0	9.3	--	194	--	--	--	--
APR										
03...	1130	--	7.2	4.6	--	264	7.4	66	--	--
07...	1200	--	10.0	2.4	--	--	--	--	--	--
09...	1145	--	11.0	2.1	--	281	7.4	75	--	--
15...	1330	--	12.6	2.5	--	211	7.5	68	--	--

TABLE 9.—Data from study of trout-spawning habitat,
February-April 1980—Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, NO ₂ TOTAL (MG/L AS N)	NITRO- GEN, NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
Site 14 - TRUCKEE RIVER NEAR VERDI										
FEB, 1980										
06...	0930	.23	.00	.23	.21	.00	.21	.44	.05	2.1
26...	1530	.02	.02	.00	.16	.01	.15	.18	.01	2.3
MAR										
13...	1030	.37	.10	.27	.10	.01	.09	.47	.06	2.7
21...	1100	.35	.08	.27	.05	.01	.04	.40	.02	2.7
APR										
03...	1200	.39	.00	.39	.02	.00	.02	.41	.03	3.8
09...	1130	.36	.12	.24	.05	.01	.00	.36	.02	1.4
17...	1030	.66	.00	.66	.02	.01	.01	.68	.04	3.3
Site 14A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR VERDI										
FEB, 1980										
26...	1230	.02	.02	.00	.17	.01	.16	.19	.02	2.5
MAR										
21...	1030	.27	.00	.27	.03	.01	.02	.30	.03	3.7
APR										
03...	1100	.39	.00	.39	.02	.00	.02	.41	.03	3.8
09...	1030	.31	.10	.21	.04	.01	.03	.35	.02	—
17...	1000	.48	.04	.44	.07	.01	.06	.55	.03	2.3
Site 16 - TRUCKEE RIVER NEAR SPARKS										
FEB, 1980										
05...	1000	.31	.00	.31	.74	.00	.74	1.1	.05	2.9
28...	1130	.14	.04	.10	.18	.01	.17	.32	.02	2.6
MAR										
12...	1030	.33	.00	.33	.13	.00	.13	.46	.07	1.4
20...	1200	.54	.00	.54	.02	.02	.00	.56	.01	2.6
APR										
04...	0945	.51	.06	.45	.01	.00	.01	.52	.02	3.4
10...	1030	.33	.10	.23	.03	.03	.00	.36	.03	2.4
16...	1030	.88	.00	.88	.01	.01	.00	.89	.06	4.2
Site 16A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR SPARKS										
FEB, 1980										
08...	1600	.26	.00	.26	.27	.01	.26	.53	.02	2.5
28...	1130	.02	.02	.00	.18	.01	.17	.20	.01	1.9
MAR										
20...	1200	.53	.00	.53	.28	.01	.27	.81	.02	2.7
APR										
04...	1000	1.9	.10	1.8	.07	.00	.07	2.0	.13	2.9
10...	1045	.47	.12	.35	.06	.01	.05	.53	.05	3.1
16...	1000	.54	.02	.52	.04	.01	.03	.58	.07	2.3
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH										
FEB, 1980										
04...	1700	1.4	.80	.60	.52	.02	.50	1.9	.38	6.1
Site 52A - TRUCKEE RIVER INTRAGRAVEL SITE BELOW S BAR S RANCH										
FEB, 1980										
08...	1130	1.1	.63	.47	.56	.02	.54	1.7	.25	3.7
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON										
MAR, 1980										
11...	1130	.79	.40	.39	.41	.03	.38	1.2	.28	2.7
19...	1030	1.2	.70	.50	.41	.04	.37	1.6	.34	3.7
APR										
03...	1015	2.5	.70	1.8	.46	.04	.42	3.0	.39	3.5
09...	1045	1.3	.32	.98	.39	.05	.34	1.7	.30	3.0
15...	1430	1.5	.34	1.2	.45	.05	.40	2.0	.40	6.9
Site 56A - TRUCKEE RIVER INTRAGRAVEL SITE AT DEAD OX WASH NEAR NIXON										
MAR, 1980										
19...	1030	.76	.30	.46	.83	.02	.81	1.6	.29	3.2
APR										
03...	1130	.60	.13	.47	.87	.02	.85	1.5	.34	8.2
09...	1145	.81	.27	.54	.38	.02	.36	1.2	.37	4.9
15...	1330	.81	.35	.46	.47	.05	.42	1.3	.44	4.0

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980--Continued

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
Site 14 - TRUCKEE RIVER NEAR VERDI										
FEB, 1980										
06...	0930	0	0	3	0	0	1	4	4	0
26...	1530	3	0	3	0	0	<1	4	4	0
MAR										
13...	1030	4	1	3	0	0	1	2	0	2
21...	1100	2	0	2	0	0	<1	4	2	2
APR										
03...	1200	1	0	1	0	0	<1	6	4	2
09...	1130	0	0	0	0	0	<1	7	6	1
17...	1030	1	0	2	1	0	<1	1	0	1
Site 14A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR VERDI										
FEB, 1980										
26...	1230	2	0	3	0	--	--	10	5	5
MAR										
21...	1030	3	1	2	0	0	<1	3	3	0
APR										
03...	1100	1	0	1	0	0	<1	6	4	2
09...	1030	0	--	--	0	--	--	4	--	--
17...	1000	1	0	2	1	0	1	3	0	4
Site 16 - TRUCKEE RIVER NEAR SPARKS										
FEB, 1980										
05...	1000	1	0	2	0	0	<1	5	5	0
28...	1130	3	0	3	0	0	1	7	6	1
MAR										
12...	1030	3	0	4	0	0	<1	8	7	1
20...	1200	4	0	4	0	0	<1	4	3	1
APR										
04...	0945	1	0	3	0	0	<1	4	2	2
10...	1030	1	0	4	0	0	<1	4	0	4
16...	1030	2	0	2	0	0	<1	3	2	1
Site 16A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR SPARKS										
FEB, 1980										
08...	1600	3	0	3	0	0	1	2	--	--
28...	1130	3	0	3	1	0	2	10	7	3
MAR										
20...	1200	3	0	3	0	0	1	3	2	1
APR										
04...	1000	2	0	3	1	0	1	4	1	3
10...	1045	1	0	--	0	0	1	2	0	2
16...	1000	1	0	2	0	0	2	2	0	3
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH										
FEB, 1980										
04...	1700	16	0	7	0	0	1	4	4	0
Site 52A - TRUCKEE RIVER INTRAGRAVEL SITE BELOW S BAR S RANCH										
FEB, 1980										
08...	1130	13	0	14	0	0	1	6	6	0
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON										
MAR, 1980										
11...	1130	16	0	16	0	0	<1	5	3	2
19...	1030	12	0	12	0	0	<1	--	--	3
APR										
03...	1015	15	0	15	0	0	1	4	2	2
09...	1045	--	--	--	0	0	<1	2	--	--
15...	1430	11	3	8	1	0	<1	3	2	1
Site 56A - TRUCKEE RIVER INTRAGRAVEL SITE AT DEAD OX WASH NEAR NIXON										
MAR, 1980										
19...	1030	13	1	12	0	0	<1	5	0	6
APR										
03...	1130	12	0	13	0	0	<1	4	2	2
09...	1145	--	--	--	0	0	<1	4	2	2
15...	1330	12	0	12	1	0	1	4	2	2

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980--Continued

DATE	TIME	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
Site 14 - TRUCKEE RIVER NEAR VERDI								
FEB, 1980								
06...	0930	280	240	40	3	3	0	8
26...	1530	410	330	80	8	8	0	10
MAR								
13...	1030	280	210	70	3	3	0	10
21...	1100	260	210	50	4	2	2	10
APR								
03...	1200	400	350	50	4	4	0	9
09...	1130	1300	1200	70	1	0	1	10
17...	1030	700	690	<10	3	3	0	<1
Site 14A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR VERDI								
FEB, 1980								
26...	1230	480	380	100	--	--	0	4
MAR								
21...	1030	190	160	30	4	4	0	4
APR								
03...	1100	400	350	50	4	4	0	9
09...	1030	120	--	--	1	--	--	--
17...	1000	240	200	40	2	1	1	9
Site 16 - TRUCKEE RIVER NEAR SPARKS								
FEB, 1980								
05...	1000	670	620	50	4	4	0	9
28...	1130	680	630	50	8	8	0	9
MAR								
12...	1030	320	270	50	2	2	0	9
20...	1200	330	290	40	4	4	0	20
APR								
04...	0945	260	230	30	3	3	0	10
10...	1030	390	350	40	0	0	2	9
16...	1030	1000	950	50	5	3	2	6
Site 16A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR SPARKS								
FEB, 1980								
08...	1600	210	170	40	8	6	2	4
28...	1130	400	370	30	7	7	0	2
MAR								
20...	1200	150	120	30	4	4	0	7
APR								
04...	1000	90	80	10	3	3	0	--
10...	1045	110	90	20	0	0	0	30
16...	1000	190	150	40	1	0	1	10
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH								
FEB, 1980								
04...	1700	760	710	50	3	3	0	50
Site 52A - TRUCKEE RIVER INTRAGRAVEL SITE BELOW S BAR S RANCH								
FEB, 1980								
08...	1130	230	190	40	5	3	2	8
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON								
MAR, 1980								
11...	1130	730	680	50	0	0	0	20
19...	1030	660	630	30	6	6	0	20
APR								
03...	1015	420	390	30	3	3	0	30
09...	1045	240	210	30	0	0	0	30
15...	1430	2800	2800	30	7	6	1	30
Site 56A - TRUCKEE RIVER INTRAGRAVEL SITE AT DEAD OX WASH NEAR NIXON								
MAR, 1980								
19...	1030	140	120	20	4	2	2	4
APR								
03...	1130	120	110	10	3	3	0	20
09...	1145	140	100	40	2	1	1	120
15...	1330	220	190	30	8	7	1	220

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980--Continued

DATE	TIME	MERCURY	MERCURY	MERCURY	ZINC,	ZINC,	ZINC,
		TOTAL RECOV- ERABLE (UG/L AS HG)	SUS- PENDE RECov- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS ZN)	SUS- PENDE RECov- ERABLE (UG/L AS ZN)	
Site 14 - TRUCKEE RIVER NEAR VERDI							
FEB, 1980							
06...	0930	.0	.0	.0	20	20	5
26...	1530	.1	.1	.0	30	30	5
MAR							
13...	1030	.0	.0	.1	10	5	5
21...	1100	.0	.0	.0	20	10	6
APR							
03...	1200	.1	.1	.0	20	10	6
09...	1130	.1	.1	.0	10	5	5
17...	1030	.0	.0	.0	30	30	<3
Site 14A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR VERDI							
FEB, 1980							
26...	1230	.1	.1	.0	40	20	20
MAR							
21...	1030	.0	.0	.0	10	7	<3
APR							
03...	1100	.1	.1	.0	20	10	6
09...	1030	.1	--	--	0	--	--
17...	1000	.3	.2	.1	40	10	30
Site 16 - TRUCKEE RIVER NEAR SPARKS							
FEB, 1980							
05...	1000	.0	.0	.0	80	80	3
28...	1130	.1	.1	.0	20	10	6
MAR							
12...	1030	.0	.0	.1	20	10	9
20...	1200	.0	.0	.0	20	20	5
APR							
04...	0945	.0	.0	.0	20	10	10
10...	1030	.1	.1	.0	30	30	5
16...	1030	.1	.1	.0	30	30	<3
Site 16A - TRUCKEE RIVER INTRAGRAVEL SITE NEAR SPARKS							
FEB, 1980							
08...	1600	.0	.0	.0	20	10	8
28...	1130	.1	.1	.0	20	10	6
MAR							
20...	1200	.0	.0	.0	10	5	5
APR							
04...	1000	--	--	--	40	10	30
10...	1045	.1	.0	.1	20	10	10
16...	1000	.1	.1	.0	30	20	10
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH							
FEB, 1980							
04...	1700	.1	.1	.0	10	6	4
Site 52A - TRUCKEE RIVER INTRAGRAVEL SITE BELOW S BAR S RANCH							
FEB, 1980							
08...	1130	.0	.0	.0	30	10	20
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON							
MAR, 1980							
11...	1130	.1	.0	.1	20	10	9
19...	1030	.0	.0	.0	20	10	7
APR							
03...	1015	.1	.1	.0	30	20	10
09...	1045	.1	.1	.0	10	1	9
15...	1430	.1	.1	.0	60	60	<3
Site 56A - TRUCKEE RIVER INTRAGRAVEL SITE AT DEAD OX WASH NEAR NIXON							
MAR, 1980							
19...	1030	.0	.0	.0	20	0	20
APR							
03...	1130	.0	.0	.0	10	1	9
09...	1145	.2	.1	.1	20	10	10
15...	1330	.1	.0	.1	30	20	8

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980--Continued

DATE	TIME	NITRO- GEN, NH ₄ + ORG. TOTAL IN BED MAT. (MG/KG AS N)	NITRO- GEN, NH ₄ TOTAL IN BED MAT. (MG/KG AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL IN BED MAT. (MG/KG AS N)	NITRO- GEN, NO ₂ TOTAL IN BED MAT. (MG/KG AS N)	NITRO- GEN, NO ₃ TOTAL IN BED MAT. (MG/KG AS N)	NITRO- GEN, TOTAL IN BED MAT. (MG/KG AS N)	PHOS- PHORUS, TOTAL IN BED MAT. (MG/KG AS P)	CARBON, ORGANIC TOTAL IN BED MAT. (G/KG AS C)	CARBON, INOR- GANIC, TOTAL IN BED MAT. (G/KG AS C)	CARBON, INORG + ORGANIC TOTAL IN BED MAT. (G/KG AS C)
Site 14 - TRUCKEE RIVER NEAR VERDI											
FEB, 1980											
06...	0930	74	24	11	.0	11	85	700	1.0	.1	1.1
MAR											
13...	1030	23	1.6	1.6	.0	1.6	25	430	.5	.1	.6
Site 16 - TRUCKEE RIVER NEAR SPARKS											
FEB, 1980											
01...	1600	28	17	10	.0	10	38	650	1.1	.0	1.1
MAR											
12...	1030	22	3.9	25	.0	25	47	450	.7	.1	.8
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH											
FEB, 1980											
04...	1700	35	11	3.5	--	--	39	700	.8	.2	1.0
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON											
MAR, 1980											
11...	1130	20	2.7	5.3	.0	5.3	25	320	.6	.1	.7

DATE	TIME	ARSENIC TOTAL IN BED MAT. (UG/G AS AS)	CADMIUM RECOV. FROM BED MAT. (UG/G AS CD)	COPPER, RECOV. FROM BED MAT. (UG/G AS CU)	IRON, RECOV. FROM BED MAT. (UG/G AS FE)	LEAD, RECOV. FROM BED MAT. (UG/G AS PB)	MERCURY RECOV. FROM BED MAT. (UG/G AS HG)	ZINC, RECOV. FROM BED MAT. (UG/G AS ZN)
Site 14 - TRUCKEE RIVER NEAR VERDI								
FEB, 1980								
06...	0930	3	1	12	4800	0	.01	20
MAR								
13...	1030	4	0	16	14	0	.02	33
Site 16 - TRUCKEE RIVER NEAR SPARKS								
FEB, 1980								
01...	1600	3	1	12	5800	0	.02	27
MAR								
12...	1030	3	0	16	11000	0	.01	29
Site 52 - TRUCKEE RIVER BELOW S BAR S RANCH								
FEB, 1980								
04...	1700	5	1	7	5200	0	.02	20
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON								
MAR, 1980								
11...	1130	10	0	10	9400	0	.01	25

TABLE 9.--Data from study of trout-spawning habitat,
February-April 1980---Continued

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
Site 14 - TRUCKEE RIVER NEAR VERDI													
FEB, 1980													
06...	0930	0	1	2	5	13	21	24	27	34	65	100	--
MAR													
13...	1030	0	0	2	6	14	24	31	38	57	84	100	--
Site 16 - TRUCKEE RIVER NEAR SPARKS													
FEB, 1980													
01...	1600	0	1	2	7	18	24	27	36	53	100	--	--
MAR													
12...	1030	0	0	2	6	14	21	26	33	41	86	100	--
APR													
16...	1030	0	0	1	4	14	21	27	38	64	94	100	--
Site 56 - TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON													
MAR, 1980													
11...	1130	0	0	2	9	18	21	23	27	30	34	40	100
APR													
15...	1430	0	0	1	6	15	20	25	32	44	62	100	--

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980

Site 8 - TRUCKEE RIVER AT INTERSTATE 80 ABOVE LITTLE TRUCKEE RIVER

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

TABLE 10.--Daily measurements of water temperature (in degrees C)
at selected sites, January-September 1980--Continued

Site 9 - LITTLE TRUCKEE RIVER BELOW BOCA DAM

DAY	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN	MAX	MIN JUNE	MEAN
1	--	--	--	11.0	7.5	8.5	8.0	7.5	8.0
2	--	--	--	8.0	7.5	7.5	8.5	7.5	8.0
3	--	--	--	8.0	7.5	8.0	9.0	7.5	8.5
4	--	--	--	8.0	7.5	8.0	9.0	8.0	8.5
5	--	--	--	8.0	7.5	8.0	9.0	7.5	8.5
6	--	--	--	8.5	7.5	8.0	8.5	7.5	8.0
7	--	--	--	8.0	7.5	8.0	8.5	7.5	8.0
8	--	--	--	8.0	8.0	8.0	8.5	8.0	8.0
9	--	--	--	9.0	7.5	8.0	8.5	8.0	8.0
10	--	--	--	8.0	8.0	8.0	9.0	8.0	8.0
11	--	--	--	8.5	8.0	8.0	9.0	8.0	8.5
12	--	--	--	8.5	8.0	8.0	9.0	8.0	8.5
13	--	--	--	8.5	8.0	8.5	8.5	7.5	8.0
14	--	--	--	9.0	8.0	8.5	8.5	8.0	8.5
15	--	--	--	9.5	8.5	9.0	18.0	8.0	12.5
16	--	--	--	10.5	8.5	9.5	19.0	9.5	14.0
17	--	--	--	10.0	9.0	10.0	19.0	9.5	13.5
18	--	--	--	11.0	9.5	10.0	19.0	10.5	13.5
19	8.0	6.5	7.0	11.0	9.5	10.5	18.5	10.5	13.5
20	8.5	7.0	7.5	11.5	10.0	11.0	19.0	10.0	13.5
21	8.0	7.5	7.5	11.5	10.5	11.0	19.0	10.5	14.0
22	8.0	7.5	7.5	11.5	10.5	11.0	18.0	10.0	13.5
23	11.0	7.5	8.5	11.0	10.0	10.5	18.5	10.5	14.0
24	14.5	7.5	10.5	9.5	9.0	9.0	19.0	11.0	14.5
25	15.5	8.0	11.5	9.0	8.5	9.0	18.0	11.0	14.0
26	16.5	8.5	12.0	9.0	7.5	8.5	19.0	11.0	14.5
27	16.5	9.5	13.0	8.5	7.5	8.0	18.5	11.0	14.0
28	14.0	10.5	12.0	9.0	7.5	8.0	21.0	11.5	15.5
29	13.0	10.0	11.5	8.5	7.5	8.0	19.5	13.0	15.5
30	15.0	8.0	11.0	8.0	7.5	8.0	18.0	13.5	15.5
31	--	--	--	8.0	7.5	8.0	--	--	--

DAY	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	19.0	13.0	15.5	12.0	10.5	11.0	12.0	10.5	11.5
2	15.0	13.0	14.0	11.5	10.0	10.5	12.5	10.5	12.0
3	20.5	12.0	15.0	11.5	9.5	10.5	12.5	11.5	12.0
4	20.5	13.0	16.0	11.5	9.5	10.5	13.0	10.5	12.0
5	20.5	12.0	16.0	11.5	9.5	10.5	12.5	11.5	12.0
6	15.0	9.5	11.0	11.5	10.0	11.0	13.0	11.0	12.0
7	10.0	9.5	9.5	11.5	10.5	11.0	13.0	11.0	11.5
8	11.0	9.5	10.0	11.5	9.5	10.5	18.0	11.0	14.0
9	11.0	9.5	10.0	12.0	9.5	11.0	19.0	13.5	16.0
10	11.0	9.5	10.0	12.0	10.5	11.0	16.0	12.0	14.0
11	11.0	9.5	10.0	11.5	10.5	11.0	19.0	13.5	16.0
12	10.0	9.5	9.5	12.0	10.0	11.0	15.5	12.0	13.5
13	10.0	9.5	9.5	11.5	10.5	11.0	13.0	12.0	12.5
14	10.5	9.5	10.0	11.5	10.5	11.0	13.0	11.0	12.0
15	10.5	9.5	10.0	11.5	10.0	11.0	13.5	12.0	12.5
16	10.0	9.5	10.0	11.5	10.5	11.0	13.0	12.0	12.5
17	10.0	9.5	9.5	11.5	10.0	11.0	12.5	11.5	12.0
18	10.0	9.5	10.0	11.0	10.0	10.5	13.0	11.5	12.0
19	10.5	9.5	10.0	12.0	10.5	11.0	12.5	11.5	12.0
20	10.5	9.5	10.0	12.0	11.0	11.0	13.0	12.0	12.5
21	11.0	9.5	10.0	12.0	10.5	11.0	13.0	11.0	12.0
22	11.0	10.0	10.0	12.0	10.5	11.0	12.5	11.0	12.0
23	11.5	9.5	10.5	12.0	10.0	11.5	12.5	11.5	12.0
24	11.5	10.0	10.5	12.0	10.0	11.0	13.0	11.5	12.5
25	11.5	9.5	10.5	12.0	10.5	11.5	13.0	12.0	12.5
26	11.0	10.0	10.5	12.0	11.0	11.5	13.0	11.5	12.0
27	11.0	10.0	10.5	12.0	11.0	11.5	13.5	12.0	12.5
28	10.5	10.0	10.5	12.0	10.5	11.5	13.5	12.0	12.5
29	11.0	9.5	10.5	12.0	11.0	11.5	14.0	12.0	13.0
30	11.5	9.5	10.5	12.5	10.5	11.5	14.0	12.5	13.5
31	12.0	10.5	11.0	12.0	11.0	12.0	--	--	--

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 11 - TRUCKEE RIVER AT FARAD

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

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

TABLE 10.--Daily measurements of water
temperature (in degree C) at selected
sites, January-September 1980--Continued

Site 14 - TRUCKEE RIVER NEAR VERDI

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

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 16 - TRUCKEE RIVER NEAR SPARKS

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

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

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 23 - TRUCKEE RIVER AT LOCKWOOD

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

DAY	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	24.5	21.0	23.0	20.5	16.5	18.5
2	23.0	18.0	20.5	20.0	17.5	19.0
3	23.0	17.5	21.0	20.0	16.5	18.5
4	23.0	18.0	21.0	20.5	17.0	19.0
5	23.0	18.0	21.0	20.5	17.0	19.0
6	22.0	17.5	20.0	20.5	17.0	19.0
7	22.0	18.0	20.0	19.5	17.0	18.5
8	22.5	18.5	20.5	19.0	15.5	17.5
9	22.0	18.0	20.0	19.0	16.0	17.5
10	21.0	18.0	19.0	18.5	16.5	17.5
11	22.5	19.0	21.0	19.5	15.5	17.5
12	22.5	19.0	21.0	19.0	17.0	18.0
13	22.5	19.0	20.5	17.5	14.5	16.0
14	--	--	--	16.0	13.0	14.5
15	--	--	--	17.0	14.0	15.5
16	22.0	18.5	20.0	18.5	14.5	16.5
17	22.0	19.0	21.0	18.5	16.0	17.5
18	21.0	19.0	20.0	--	--	--
19	21.0	17.0	19.0	--	--	--
20	22.0	17.5	20.0	--	--	--
21	22.0	19.0	20.5	--	--	--
22	21.0	18.5	19.5	--	--	--
23	20.5	17.0	18.5	--	--	--
24	21.0	17.0	19.0	--	--	--
25	21.5	18.0	20.0	--	--	--
26	21.0	18.0	19.5	--	--	--
27	20.0	17.0	19.0	--	--	--
28	19.5	16.5	18.0	--	--	--
29	18.5	14.5	16.0	--	--	--
30	18.5	14.5	16.5	--	--	--
31	19.5	15.5	17.5	--	--	--

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 36 - TRUCKEE RIVER AT DERBY DAM

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

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

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 45 - TRUCKEE RIVER AT WADSWORTH

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

DAY	MAX MAY	MIN MAY	MAX JUNE	MIN JUNE	MAX JULY	MIN JULY	MAX AUGUST	MIN AUGUST
1	13.5	9.5	13.0	11.0	21.5	18.0	--	--
2	14.5	11.0	--	--	21.0	19.0	--	--
3	14.5	12.0	--	--	19.0	17.5	--	--
4	13.5	11.5	11.0	10.0	20.5	15.5	--	--
5	13.5	12.0	11.5	10.0	21.5	16.0	--	--
6	13.5	10.0	13.5	10.5	22.0	16.5	--	--
7	13.0	11.5	15.0	--	22.5	17.5	--	--
8	13.5	10.0	16.5	13.0	23.5	18.0	--	--
9	11.5	9.0	17.0	13.5	23.0	17.0	--	--
10	9.5	7.5	16.5	13.5	23.5	16.5	26.5	20.0
11	9.5	7.5	16.5	13.5	--	--	26.5	20.0
12	11.0	8.0	15.5	13.0	--	--	26.5	20.5
13	12.0	9.0	15.0	--	--	--	26.5	20.0
14	11.5	10.5	17.0	11.5	--	--	23.0	18.5
15	14.0	11.0	19.0	13.5	25.5	18.5	--	--
16	13.5	12.0	20.0	14.5	26.5	19.5	--	--
17	14.0	11.5	21.0	16.0	26.0	19.5	--	--
18	14.0	11.5	20.5	16.0	26.0	20.5	--	--
19	15.0	12.5	18.5	16.0	26.0	19.0	--	--
20	15.5	13.0	20.0	15.5	27.0	19.5	--	--
21	14.5	12.5	21.0	16.0	27.5	20.5	--	--
22	14.5	12.0	20.5	15.5	28.0	21.5	--	--
23	11.5	8.5	20.0	17.0	28.0	21.5	--	--
24	9.5	8.0	21.0	16.5	27.5	21.0	--	--
25	10.0	8.0	20.5	15.5	27.5	21.0	--	--
26	11.0	8.5	21.0	17.0	27.5	21.5	--	--
27	12.0	10.5	21.5	15.5	28.5	21.5	--	--
28	12.5	10.5	23.5	16.5	26.0	22.5	--	--
29	13.0	11.5	22.0	19.0	--	--	--	--
30	13.0	11.5	20.0	18.5	--	--	--	--
31	12.5	11.0	--	--	--	--	--	--

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 63 - TRUCKEE RIVER AT MARBLE BLUFF DAM

DAY	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN	MAX	MIN JUNE	MEAN
1	---	---	---	9.0	7.0	8.0	15.5	10.5	13.0	---	---	---
2	---	---	---	10.0	6.5	8.0	16.0	12.0	14.0	---	---	---
3	---	---	---	10.5	6.5	8.5	16.5	13.0	15.0	---	---	---
4	---	---	---	11.0	8.5	9.5	16.5	12.5	15.0	13.5	---	---
5	---	---	---	12.5	8.5	10.0	15.5	13.0	14.5	15.0	10.0	11.5
6	---	---	---	12.0	9.0	10.5	15.5	12.5	14.0	15.0	9.0	12.5
7	---	---	---	12.5	8.5	10.0	15.5	12.0	13.5	16.5	11.5	14.0
8	---	---	---	12.5	9.0	11.0	14.0	12.0	13.0	18.0	13.0	15.5
9	---	---	---	12.5	10.5	11.5	13.0	10.5	12.0	18.5	14.0	16.5
10	---	---	---	14.0	11.0	12.0	12.0	10.0	10.5	18.5	14.5	16.5
11	---	---	---	15.0	10.5	12.5	10.0	8.0	9.0	---	---	---
12	---	---	---	14.5	10.5	12.0	13.5	8.5	10.5	---	---	---
13	---	---	---	14.5	11.0	12.5	13.5	10.0	12.0	---	---	---
14	---	---	---	15.5	12.5	13.5	15.0	11.0	13.0	---	---	---
15	---	---	---	15.0	11.5	13.5	16.0	11.0	13.5	---	---	---
16	---	---	---	15.0	11.0	13.0	16.0	12.0	13.5	---	---	---
17	---	---	---	15.5	11.5	13.5	---	---	---	---	---	---
18	8.0	6.5	7.5	15.5	12.0	14.0	---	---	---	---	---	---
19	9.0	5.0	7.0	15.5	11.5	13.5	---	---	---	---	---	---
20	9.0	6.5	7.5	14.5	12.0	13.0	---	---	---	21.5	---	---
21	7.5	6.0	7.0	12.0	8.0	9.5	---	---	---	21.0	17.0	18.5
22	9.0	5.5	7.0	9.5	7.5	8.0	---	---	---	21.5	17.5	18.5
23	9.0	6.0	7.5	12.0	8.5	10.0	---	---	---	20.5	16.5	18.0
24	8.5	6.0	7.5	14.0	9.5	11.5	---	---	---	21.5	17.0	18.5
25	8.5	5.5	7.0	16.0	11.5	14.0	---	---	---	21.5	17.5	19.5
26	9.5	5.5	7.5	16.5	13.0	15.0	---	---	---	21.0	17.5	19.0
27	10.0	7.0	8.0	17.5	13.5	15.5	---	---	---	21.0	16.0	18.5
28	10.5	6.5	8.5	16.0	13.5	15.0	---	---	---	22.5	18.0	20.0
29	12.5	8.0	10.0	15.5	12.5	14.0	---	---	---	22.0	20.0	21.0
30	11.0	8.5	9.5	15.5	10.5	13.0	---	---	---	21.5	19.5	20.0
31	10.0	7.5	8.5	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	22.0	19.0	20.5	23.5	21.0	22.5	18.5	17.0	18.0
2	21.0	19.5	20.0	24.0	20.0	22.0	19.5	17.5	18.5
3	22.5	18.0	20.5	23.5	19.5	21.5	19.5	18.0	18.5
4	22.0	17.5	19.5	22.5	19.5	21.0	20.0	18.5	19.0
5	22.0	17.5	19.5	22.5	19.5	21.0	20.0	18.5	19.5
6	22.0	18.5	20.0	21.0	18.5	20.0	21.5	19.0	20.0
7	22.5	18.5	20.0	22.5	19.0	20.5	20.0	19.0	19.5
8	22.5	18.5	20.5	23.0	19.5	21.0	20.5	18.0	19.0
9	23.0	19.0	20.5	22.0	19.0	21.0	21.5	18.5	20.0
10	23.0	19.0	20.5	22.0	19.5	21.0	20.5	18.5	19.5
11	23.5	18.5	20.5	23.0	20.0	21.5	21.5	17.5	19.0
12	22.0	19.0	20.5	22.5	20.5	21.5	20.5	17.5	19.0
13	22.0	18.5	20.5	22.5	20.0	21.0	19.5	16.0	17.5
14	22.0	19.0	20.5	21.0	18.5	19.5	17.5	15.0	16.0
15	23.5	19.0	21.0	19.5	18.0	19.0	17.5	15.5	16.0
16	24.0	20.0	22.0	21.5	18.5	19.5	18.5	15.5	16.5
17	23.5	20.5	22.5	21.0	19.5	20.0	17.5	16.5	17.0
18	23.5	21.0	22.5	20.0	19.0	19.5	18.5	16.5	17.5
19	24.0	20.0	22.0	19.5	18.0	18.5	17.0	15.5	16.5
20	25.0	20.5	22.5	19.5	17.5	18.5	17.0	15.0	16.0
21	26.0	21.5	23.5	20.0	18.5	19.5	17.0	15.5	16.0
22	24.5	22.0	23.5	19.5	18.5	19.0	17.0	14.5	15.5
23	25.0	22.5	24.0	21.5	18.0	19.0	17.0	14.5	15.5
24	25.0	22.5	23.5	20.5	18.0	19.0	18.0	14.5	16.0
25	25.0	22.0	23.5	20.0	18.5	19.5	18.0	15.0	16.5
26	25.5	21.5	23.5	21.0	19.5	20.0	18.0	15.0	16.5
27	25.5	22.0	24.0	20.5	18.5	19.5	17.5	15.5	16.5
28	25.5	22.5	23.0	19.0	17.5	18.5	18.0	16.0	16.5
29	24.5	21.0	22.5	18.5	16.0	17.5	18.5	16.0	17.0
30	25.0	20.5	22.5	17.0	15.5	16.5	19.0	15.5	17.0
31	24.5	21.5	23.0	20.0	16.5	17.5	---	---	---

TABLE 10.--Daily measurements of water temperature (in degree C)
at selected sites, January-September 1980--Continued

Site 74 - TRUCKEE CANAL AT U.S. HIGHWAY 50 ABOVE LAHONTAN RESERVOIR

DAY	MAX	MIN MAY	MEAN	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN
1	--	--	--	15.5	13.5	14.0	21.5	18.5	20.0
2	--	--	--	14.0	12.5	13.0	22.5	19.5	20.5
3	--	--	--	14.5	11.5	12.5	21.5	18.0	20.0
4	--	--	--	14.5	11.0	12.5	22.5	18.0	20.5
5	--	--	--	15.0	12.0	13.5	20.5	17.5	19.0
6	--	--	--	16.0	12.0	14.5	21.5	18.0	19.5
7	--	--	--	18.0	13.5	16.0	22.5	18.0	20.0
8	--	--	--	18.5	15.5	17.0	23.0	18.5	20.5
9	--	--	--	20.0	16.0	18.0	23.5	18.5	20.5
10	--	--	--	21.0	16.5	18.5	27.5	18.0	22.0
11	--	--	--	19.5	17.0	18.0	23.5	20.5	22.0
12	--	--	--	19.0	16.0	17.5	24.0	19.0	21.0
13	--	--	--	18.5	16.0	17.5	26.5	18.0	22.0
14	--	--	--	18.5	14.0	16.0	23.5	19.0	21.5
15	--	--	--	20.0	16.0	18.0	24.5	19.5	22.0
16	--	--	--	21.0	17.0	19.0	24.0	21.0	22.5
17	--	--	--	22.0	19.0	20.5	28.0	21.0	24.0
18	--	--	--	22.5	19.5	21.0	27.0	20.5	23.5
19	--	--	--	23.5	19.5	21.0	27.0	18.0	22.5
20	--	--	--	23.0	17.5	20.0	25.5	22.0	24.0
21	--	--	--	25.0	17.5	20.5	26.0	22.0	24.5
22	18.0	14.5	16.5	25.5	16.0	20.0	26.5	22.0	24.0
23	14.0	11.0	13.0	21.0	16.0	18.5	26.5	22.5	24.5
24	14.5	9.5	11.5	21.5	16.5	19.0	26.5	23.0	24.5
25	14.5	7.5	11.0	21.0	16.5	18.5	27.0	22.5	25.0
26	14.5	10.0	12.0	20.5	16.5	18.0	27.0	24.0	25.5
27	14.5	10.5	12.5	21.0	16.5	18.5	28.5	23.0	25.5
28	15.5	11.5	13.5	22.5	18.0	20.0	25.0	23.5	24.5
29	20.0	13.0	15.5	22.0	19.0	20.5	27.5	22.5	24.5
30	19.0	14.0	16.0	21.0	19.5	20.0	26.0	23.0	24.0
31	16.0	13.5	14.5	--	--	--	26.5	22.5	24.5

DAY	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBER	MEAN
1	27.0	22.5	24.5	20.0	17.0	18.5
2	27.5	22.0	24.0	21.5	18.0	19.5
3	27.5	21.0	23.5	22.0	18.5	20.0
4	25.5	22.5	24.0	22.0	19.0	20.5
5	25.5	22.0	23.5	22.5	19.0	20.5
6	24.5	20.5	22.0	22.0	19.0	20.5
7	25.0	20.5	22.5	20.5	18.5	20.0
8	24.5	21.5	22.5	20.5	18.5	19.5
9	23.5	20.0	22.0	20.0	19.0	19.5
10	24.5	20.0	22.0	19.0	18.0	18.5
11	24.0	21.5	22.5	20.0	18.0	19.0
12	24.5	21.0	22.0	20.5	18.5	19.5
13	26.0	17.5	21.5	19.5	17.5	18.5
14	24.5	19.0	21.5	18.5	16.0	17.5
15	23.0	16.0	20.0	17.0	15.5	16.5
16	23.5	19.0	21.0	18.0	15.0	16.5
17	25.5	20.0	22.5	18.5	16.0	17.5
18	22.0	20.5	21.0	18.5	16.5	17.5
19	22.0	19.0	20.5	19.0	16.0	17.0
20	24.5	19.5	21.5	18.0	16.0	17.0
21	27.0	19.5	22.5	18.0	15.0	16.5
22	23.0	18.5	20.5	17.0	15.0	15.5
23	23.0	18.0	20.0	17.0	15.0	15.5
24	21.5	18.5	20.0	17.5	15.0	16.0
25	21.5	19.0	20.0	17.0	15.0	16.0
26	22.5	19.5	20.5	17.5	15.5	16.5
27	22.5	18.5	20.5	17.5	16.0	16.5
28	22.0	17.5	19.5	18.0	16.0	17.0
29	20.0	17.5	18.5	17.5	16.0	16.5
30	20.0	17.0	18.0	--	--	--
31	19.5	16.0	18.0	--	--	--

TABLE 11.--Data from dye study in upper reach of river, May 31-June 1, 1979

Injection site: Truckee River at State Highway 267 at Truckee
 Site number: 4
 Date of injection: May 31, 1979
 Time of injection: 0935
 Dye volume (liters): 10.0

Sampling site:	At old U.S. Hwy. 40 bridge below Truckee	At Boca bridge	Below Farad	At Mayberry Drive	At Vista
Site number:	6	10	12	15	22
River miles below injection:	4.69	9.62	19.58	35.16	48.63
Estimated discharge during sampling period (ft ³ /s):	440	520	680	510	450
Date(s):	May 31, 1979	May 31, 1979	May 31, 1979	June 1, 1979	June 1, 1979

Rhodamine WT dye concentrations:	At old U.S. Hwy. 40 bridge below Truckee		At Boca bridge		Below Farad		At Mayberry Drive		At Vista	
	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	1158	0.00	1436	0.00	1940	0.00	0343	0.00	1350	0.00
	1200	.4	1438	.1	1952	.3	0354	.2	1420	.4
	1202	.8	1440	.1	2000	.9	0403	.2	1440	.6
	1204	1.6	1442	.3	2010	2.3	0413	.5	1500	1.0
	1206	3.5	1444	.5	2020	4.0	0423	.8	1525	1.2
	1208	6.9	1446	.8	2030	6.4	0433	1.0	1540	1.6
	1210	12	1448	1.3	2040	8.4	0443	1.5	1600	1.9
	1212	20	1450	2.0	2050	10	0453	2.0	1620	2.2
	1214	25	1452	3.3	2100	11	0503	2.6	1640	2.4
	1216	34	1454	4.7	2110	10	0513	3.2	1700	2.2
	1218	42	1456	13	2120	9.6	0523	3.1	1720	2.2
	1220	44	1458	13	2140	7.8	0533	3.8	1825	1.6
	1222	52	1502	8.8	2200	6.3	0543	3.8	1910	1.2
	1224	44	1504	7.5	2220	4.4	0553	4.2	1950	.9
	1226	58	1506	6.5	2240	2.5	0603	4.1	2030	.7
	1228	51	1508	14	2300	1.7	0613	4.3	2125	.4
	1230	61	1510	20	2320	.9	0623	4.3	2200	.4
	1232	59	1512	18	2340	.6	0634	4.3	2230	.2
	1234	62	1515	21	2400	.4	0644	4.3	2300	.2
	1236	56	1520	32			0653	4.1	2330	.0
	1238	52	1525	33			0703	3.8		
	1240	49	1530	33			0723	3.7		
	1242	44	1535	30			0743	3.2		
	1244	40	1545	24			0803	2.9		
	1248	29	1555	16			0823	2.1		
	1252	22	1605	8.6			0843	1.8		
	1256	16	1615	6.5			0903	1.5		
	1300	11	1626	2.1			0926	1.0		
	1304	9.7	1635	1.8			0943	.8		
	1308	5.7	1645	1.0			1003	.6		
	1312	4.0	1655	.6						
			1705	.5						
			1715	.5						
			1730	.3						

TABLE 12.--Data from dye study in upper reach of river, May 21-22, 1980

Injection site: Truckee River at State Highway 267 at Truckee
 Site number: 4
 Date of injection: May 21, 1980
 Time of injection: 0735
 Dye volume (liters): 21.5

Sampling site:	At old U.S. Hwy. 40 bridge below Truckee	At Boca bridge	Below Farad	At Mayberry Drive	At Vista
Site number:	6	10	12	15	22
River miles below injection:	4.69	9.62	19.58	35.16	48.63
Estimated discharge during sampling period (ft ³ /s):	740	1,700	2,300	2,300	2,400
Date(s):	May 21, 1980	May 21, 1980	May 21, 1980	May 21, 1980	May 21-22, 1980

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	0915	0.00	1030	0.00	1330	0.00	1755	0.00	2255	0.00
	0917	.06	1045	.01	1340	.01	1810	.03	2300	.2
	0919	.5	1056	.03	1345	.01	1818	.1	2305	.4
	0921	1.9	1100	.2	1350	.1	1823	.2	2310	.5
	0923	5.5	1104	.9	1355	.4	1828	.3	2315	.8
	0925	11	1110	4.6	1400	1.0	1833	.6	2325	1.2
	0927	19	1112	7.0	1405	2.0	1838	1.0	2330	2.1
	0929	29	1114	9.6	1410	3.9	1843	1.5	2330	4.5
	0931	36	1116	13	1415	6.1	1848	2.3	0005	5.4
	0933	44	1118	17	1420	4.3	1853	3.1	0010	5.5
	0935	51	1122	23	1425	10	1858	4.2	0015	5.5
	0937	57	1124	26	1430	12	1903	5.1	0020	5.4
	0939	59	1126	30	1435	13	1908	5.8	0025	5.1
	0941	59	1128	31	1440	14	1913	6.6	0051	3.0
	0943	56	1130	32	1445	13	1918	7.2	0120	1.3
	0945	50	1132	34	1453	10	1923	7.6	0135	2.9
	0949	40	1134	34	1455	9.6	1928	7.6	0205	.4
	0953	29	1136	32	1500	8.0	1933	7.6	0220	.3
	0957	20	1138	31	1510	5.0	1938	7.2		
	1001	14	1140	28	1520	2.7	1948	6.6		
	1005	8.0	1142	26	1530	1.6	1958	5.1		
	1009	5.0	1144	25	1540	.9	2008	3.7		
	1013	2.8	1146	23	1550	.6	2018	2.6		
	1017	1.9	1148	20	1600	.4	2028	1.8		
	1021	1.2	1150	18	1610	.3	2038	1.3		
	1025	.7	1154	13	1625	.2	2048	1.3		
	1029	.5	1156	11						
			1158	9.6						
			1200	8.3						
			1202	6.7						
			1206	4.8						
			1210	3.3						
			1214	2.2						
			1222	1.0						

TABLE 13.--Data from dye study in upper reach of river, October 14-16, 1980

Injection site: Truckee River at State Highway 267 at Truckee
 Site number: 4
 Date of injection: October 14, 1980
 Time of injection: 0722
 Dye volume (liters): 12.5

Sampling site:	At old U.S. Hwy. 40 bridge below Truckee	At Boca bridge	Below Farad	At Mayberry Drive	Near Sparks	At Vista
Site number:	6	10	12	15	16	22
River miles below injection:	4.69	9.62	19.58	35.16	44.74	48.63
Estimated discharge during sampling period (ft ³ /s):	40	310	380	240	240	420
Date(s):	Oct. 14, 1980	Oct. 14-15, 1980	Oct. 15, 1980	Oct. 15-16, 1980	Oct. 16, 1980	Oct. 16, 1980

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	1430	0.00	2135	0.00	0435	0.00	1800	2.2	0010	0.00	0620	0.00
	1434	.03	2140	.03	0525	.03	1810	2.5	0030	.03	0640	.04
	1446	.13	2145	.03	0535	.06	1825	3.0	0050	.03	0700	.10
	1510	3.5	2150	.06	0545	.06	1840	3.5	0110	.03	0720	.19
	1514	5.4	2155	.10	0555	.13	1855	3.9	0130	.03	0740	.26
	1518	7.7	2200	.16	0605	.22	1910	4.2	0150	.06	0800	.45
	1520	8.9	2205	.16	0615	.35	1925	4.3	0210	.13	0820	.64
	1524	12	2215	.57	0625	.60	1940	4.4	0230	.22	0840	.83
	1528	16	2220	.79	0635	.92	1955	4.4	0250	.38	0900	1.0
	1532	21	2225	1.2	0645	1.4	2010	4.2	0310	.66	0920	1.3
	1538	29	2230	1.6	0655	2.0	2025	4.2	0330	.98	0940	1.4
	1544	39	2235	2.1	0705	5.9	2040	4.0	0350	1.4	1000	1.6
	1550	50	2240	2.5	0715	6.9	2055	3.8	0410	1.8	1020	1.6
	1554	56	2245	3.4	0725	7.8	2110	3.4	0430	2.3	1040	1.7
	1556	61	2250	4.3	0735	8.6	2125	3.1	0450	2.6	1100	1.6
	1600	68	2255	5.2	0745	9.3	2140	2.8	0510	3.0	1120	1.5
	1602	71	2300	6.5	0755	9.6	2155	2.5	0530	3.2	1140	1.4
	1604	71	2305	7.4	0805	9.8	2210	2.3	0550	3.3	1155	1.4
	1608	79	2310	8.8	0815	9.5	2225	2.0	0610	3.4	1220	1.2
	1610	82	2315	10	0825	9.5	2240	1.8	0730	2.8	1300	1.0
	1612	86	2320	11	0835	9.2	2255	1.6	0750	2.7	1340	.80
	1614	90	2325	13	0845	8.5	2310	1.5	0810	2.4	1420	.67
	1616	92	2330	15	0855	8.2	2325	1.3	0830	2.2	1500	.58
	1618	93	2335	16	0905	7.8	2340	1.3	0850	2.0	1540	.51
	1620	94	2340	18	0925	6.6	2355	1.1	0910	1.7	1620	.48
	1622	a95	2345	20	0945	5.4	0015	1.1	0930	1.6	1700	.45
	1624	a101	2350	20	1005	4.2	0030	1.1	0950	1.5	1740	.42
	1626	a101	2400	22	1025	3.2	0045	1.0	1010	1.3	1820	.38
	1628	a101	0005	23	1045	2.5	0100	1.0	1030	1.2	1900	.32
	1630	a101	0010	23	1105	2.0	0115	.98	1050	1.1	1940	.32
	1632	a101	0015	24	1125	1.6	0130	.95	1110	1.0	2020	.26
	1634	a100	0020	25	1145	1.3	0145	.92	1130	1.0	2100	.26
	1636	a100	0025	25	1205	1.0	0200	.89	1150	.95	2140	.23
	1638	a100	0030	25	1225	.86	0215	.83	1210	.89	2220	.23
	1640	a100	0035	26	1320	.57	0230	.78	1230	.83	2300	.19
	1642	a100	0040	25	1340	.51	0245	.78	1250	.76	2340	.16
	1644	a100	0045	25			0300	.72	1310	.70		
	1646	a100	0050	24			0315	.66	1330	.70		
	1648	a99	0055	24			0330	.63	1350	.60		
	1650	a99	0100	23			0345	.56	1410	.54		
	1652	a99	0110	21			0400	.53	1430	.51		
	1654	a95	0120	18			0415	.53	1450	.51		
	1656	a95	0130	17			0430	.50	1510	.48		
	1658	a95	0140	15			0445	.47	1525	.41		
	1700	93	0150	13			0500	.44	1605	.38		
	1710	86	0200	11			0515	.44	1645	.35		
	1720	78	0210	10			0530	.41	1725	.32		
	1730	67	0220	8.9			0545	.38	1805	.29		
	1740	57	0230	7.6			0600	.38	1845	.25		
	1750	49	0240	6.4					1925	.22		
	1800	40	0250	5.6					2005	.19		
	1810	33	0300	4.7								
	1820	27	0310	4.0								
	1831	21	0320	3.4								
	1840	18	0330	3.0								
	1850	14	0340	2.6								
	1900	12	0350	2.3								
	1910	9.8	0400	2.1								
	1920	8.2	0410	1.8								

a Concentration less accurate because above range of instrument calibration.

TABLE 14.--Data from dye study in middle reach of river, May 29-30, 1979

Injection site: Reno-Sparks Sewage Treatment Plant outfall near Reno
 Site number: 21
 Date of injection: May 29, 1979
 Time of injection: 1158
 Dye volume (liters): 12.0

Sampling site:	At Vista	At Lockwood	At Patrick	Below Trscy	At Derby Dam
Site number:	22	23	27	33	36
River miles below injection:	1.43	3.61	8.74	13.04	18.78
Estimated discharge during sampling period (ft ³ /s):	800	780	770	770	760
Date(s):	May 29, 1979	May 29, 1979	May 29, 1979	May 29, 1979	May 30, 1979

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	1302	0.00	1414	0.00	1657	0.00	1943	0.00	0013	0.00
	1304	.8	1419	.8	1700	.5	1953	.8	0018	1.2
	1306	5.7	1424	5.1	1702	.6	2003	2.6	0023	1.4
	1307	14	1429	12	1704	1.0	2013	5.6	0028	2.4
	1310	19	1439	23	1706	1.3	2023	8.0	0033	3.1
	1312	41	1444	28	1708	2.0	2033	12	0038	4.0
	1314	43	1446	29	1710	2.4	2043	12	0048	5.6
	1316	47	1449	28	1712	2.9	2053	14	0053	5.8
	1319	48	1454	29	1714	3.9	2103	14	0103	7.6
	1324	44	1501	28	1716	4.9	2115	12	0113	8.5
	1329	32	1504	22	1718	5.9	2123	10	0123	10
	1334	25	1517	18	1720	6.5	2153	6.0	0133	11
	1339	19	1522	13	1722	7.7	2213	3.2	0143	12
	1341	12	1527	10	1724	8.5	2235	1.5	0153	9.4
	1345	8.0	1537	7.6	1726	9.3	2253	.7	0213	7.4
	1355	4.2	1547	4.5	1728	11	2313	.3	0233	4.6
	1400	1.8	1557	2.4	1730	11			0302	3.4
	1410	1.2	1607	1.2	1732	12			0320	2.0
			1617	.7	1734	13			0340	1.0
			1627	.2	1736	14				
			1630	.1	1738	16				
					1740	16				
					1742	18				
					1744	18				
					1747	20				
					1750	21				
					1755	19				
					1800	18				
					1805	16				
					1810	14				
					1815	13				
					1826	10				
					1830	8.5				
					1835	7.7				
					1840	6.7				
					1845	5.3				
					1850	4.6				
					1855	3.9				
					1900	3.0				
					1905	2.2				
					1925	.9				

TABLE 15.--Data from dye study in middle reach of river, September 4-5, 1979

Injection site: Reno-Sparks Sewage Treatment Plant outfall near Reno
 Site number: 21
 Date of injection: September 4, 1979
 Time of injection: 0900
 Dye volume (liters): 4.5

Sampling site:	At Vista	At Lockwood	At Patrick	At Derby Dam
Site number:	22	23	27	36
River miles below injection:	1.43	3.61	8.74	18.78
Estimated discharge during sampling period (ft ³ /s):	260	240	230	220
Date(s):	Sept. 4, 1979	Sept. 4, 1979	Sept. 4-5, 1979	Sept. 5, 1979

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	1036	3.8	1305	0.00	1850	0.00	0845	0.00
	1039	8.6	1345	6.5	1900	1.0	0902	.1
	1042	18	1350	8.7	1910	1.8	0917	.1
	1044	24	1355	10	1920	2.6	0930	.4
	1046	26	1400	11	1930	3.4	0945	.5
	1048	29	1405	13	1940	4.4	1000	1.0
	1050	29	1410	14	1950	4.4	1015	1.2
	1052	32	1415	14	2000	6.0	1030	1.7
	1054	32	1420	14	2010	6.7	1045	2.0
	1056	31	1425	14	2020	7.1	1100	2.5
	1058	31	1430	14	2030	7.1	1115	2.8
	1100	29	1440	13	2040	7.2	1130	3.0
	1102	28	1450	11	2050	7.2	1145	2.9
	1104	28	1500	9.5	2100	7.3	1200	3.3
	1106	25	1510	8.1	2110	6.9	1215	3.7
	1108	24	1520	6.7	2120	6.4	1230	3.6
	1110	23	1530	5.2	2130	6.0	1245	3.6
	1115	19	1540	4.5	2140	5.5	1300	3.6
	1120	15	1550	3.5	2150	5.2	1315	3.4
	1125	14	1600	2.8	2200	4.7	1330	3.3
	1130	10	1610	2.1	2210	4.2	1345	3.1
	1135	9.2	1620	1.6	2220	3.8	1400	2.9
	1140	6.8	1630	1.1	2230	3.3	1415	2.8
	1145	5.6	1640	.9	2240	2.9	1430	2.7
	1150	4.4			2250	2.6	1445	2.2
	1155	3.8			2300	2.3	1500	2.1
	1200	2.5			2310	1.9	1515	1.9
	1205	2.5			2320	1.7	1530	1.8
	1215	1.9			2330	1.4	1545	1.6
	1220	1.3			2340	1.2	1600	1.3
	1225	.7			2355	1.0	1630	1.3
	1230	.7			0005	.7	1700	.9
					0015	.7	1730	.7
					0025	.6	1800	.4
					0035	.4		
					0045	.3		
					0055	.2		

TABLE 16.--Data from dye study in middle reach of river, January 18, 1980

Injection site: Reno-Sparks Sewage Treatment Plant outfall near Reno
 Site number: 21
 Date of injection: January 18, 1980
 Time of injection: 0820
 Dye volume (liters): 16.0

Sampling site:	At Vista	At Lockwood	At Patrick	Below Tracy	At Derby Dam
Site number:	22	23	27	33	36
River miles below injection:	1.43	3.61	8.74	13.04	18.78
Estimated discharge during sampling period (ft ³ /s):	2,900	2,900	3,200	3,200	3,300
Date(s):	Jan. 18, 1980	Jan. 18, 1980	Jan. 18, 1980	Jan. 18, 1980	Jan. 18, 1980

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	0900	0.00	0900	0.00	1058	0.00	1210	0.00	1422	0.00
	0901	.2	0942	.09	1100	.03	1220	.06	1425	.06
	0902	.6	0944	.2	1102	.2	1228	.3	1432	.3
	0903	1.9	0945	.3	1104	.4	1230	.6	1445	2.8
	0904	3.0	0946	.7	1106	1.0	1235	1.4	1455	5.8
	0905	5.6	0947	1.7	1108	1.7	1240	2.9	1500	5.8
	0906	10	0948	3.0	1110	2.8	1245	5.2	1505	6.1
	0907	13	0949	4.7	1112	3.7	1250	7.4	1510	6.4
	0908	16	0950	6.0	1114	5.8	1256	8.4	1515	6.4
	0909	19	0951	7.3	1116	6.8	1303	8.4	1520	6.2
	0910	19	0952	8.2	1118	8.0	1308	7.4	1525	5.8
	0911	19	a0953	9.7	1120	8.6	1313	6.2	1530	4.8
	0913	21	a0954	10	1122	9.6	1318	5.2	1540	3.5
	0915	21	a0956	12	1124	10	1323	4.4	1550	2.0
	0916	19	a0957	12	1126	10	1330	3.3	1600	1.5
	0917	19	a0958	13	1128	10	1340	2.3	1610	1.1
	0918	17	a0959	14	1130	10	1350	.9	1620	.7
	0920	15	a1000	14	1132	10	1400	.5	1630	.4
	0922	13	a1001	15	1135	10	1410	.3		
	0924	11	1012	7.3	1140	8.6	1420	.3		
	0926	8.7	1013	6.4	1145	6.8	1430	.2		
	0928	7.2	1015	6.0	1150	5.2	1440	.1		
	0930	5.7	1016	5.3	1155	3.9	1450	.09		
	0932	4.4	1018	4.8	1201	2.5	1500	.06		
	0934	3.6	1019	4.6	1205	1.9				
	0936	3.0	1020	4.2	1210	1.4				
	0938	2.3	1022	3.6	1215	1.0				
	0940	1.9	1024	2.9	1220	.7				
	0942	1.7	1026	2.5						
	0944	1.3	1028	1.8						
	0946	1.1	1030	1.5						
			1032	1.4						
			1034	1.0						
			1036	.9						
			1038	.8						
			1040	.6						
			1042	.5						
			1044	.4						

^a Approximate time based on graphical analysis of data.

TABLE 17.--Data from dye study in lower reach of river, May 23-25, 1979

Injection site: Truckee River at Derby Dam
 Site number: 36
 Date of injection: May 23, 1979
 Time of injection: 1136
 Dye volume (liters): 15.0

Sampling site:	At Painted Rock bridge	At old U.S. Hwy. 40 bridge at Wadsworth	At Dead Ox Wash near Nixon	At State Hwy. 447 at Nixon	At Marble Bluff Dam	Below Marble Bluff Dam
Site number:	39	44	56	62	63	65
River miles below injection:	4.91	11.19	21.70	31.66	34.88	34.93
Estimated discharge during sampling period (ft ³ /s):	370	370	310	270	240	240
Date(s):	May 23, 1979	May 23, 1979	May 24, 1979	May 24, 1979	May 24-25, 1979	May 24-25, 1979

Rhodamine WT dye concentrations:	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>
	1430	0.00	1822	0.00	0123	0.00	1035	0.00	1645	0.00	1730	0.4
	1435	1.8	1832	.8	0138	.3	1050	.2	1710	.3	1750	.9
	1440	10	1842	4.1	0153	1.6	1105	.6	1730	.9	1812	1.1
	1445	24	1852	9.3	0208	3.7	1120	1.4	1750	1.8	1830	2.2
	1450	35	1902	20	0223	7.0	1135	2.3	1810	2.8	1850	2.8
	1455	60	1912	24	0238	10	1150	3.6	1830	4.7	1910	3.2
	1500	66	1922	34	0253	15	1205	5.2	1850	6.2	1934	4.0
	1505	67	1932	37	0308	20	1220	6.8	1910	5.3	1950	4.1
	1510	69	1942	39	0323	22	1235	8.5	1930	6.1	2010	3.7
	1515	65	1952	29	0338	23	1250	10	1950	5.6	2030	4.1
	1520	61	2002	27	0353	22	1305	11	2010	4.0	2050	4.0
	1525	54	2012	23	0408	20	1320	14	2030	2.5	2110	3.8
	1535	41	2022	20	0425	15	1322	15	2050	3.5	2134	3.3
	1544	30	2032	16	0438	14	1350	15	2110	4.0	2230	3.5
	1550	19	2042	12	0453	11	1405	16	2130	3.8	2250	3.3
	1602	12	2102	6.2	0508	8.0	1425	16	2150	3.8	2310	3.4
	1610	7.7	2122	3.3	0538	5.4	1440	12	2210	3.9	2330	3.4
	1620	4.7	2123	3.0	0608	3.4			2230	4.0	2350	3.5
	1630	2.6			0638	2.9			2250	3.9	0010	3.2
	1640	2.6			0713	1.4			2330	3.1	0030	3.0
					0741	1.0			2350	3.1	0050	2.9
					0810	.7			0010	2.9	0110	2.8
									0030	3.0	0130	2.6
									0050	3.0	0150	2.6
									0110	3.0	0230	2.2
									0130	2.8	0250	2.0
									0150	2.8	0310	2.1
									0210	2.7	0350	2.2
									0250	2.9	0430	2.1
									0312	2.9	0510	1.9
									0350	2.7	0550	1.7
									0430	2.6	0715	1.2
									0510	1.3	0750	1.1
									0550	1.5	0850	.8
									0712	1.3	1020	.8
									0750	1.2	1050	.7
									0850	1.5	1120	.6
									0950	1.5	1150	.5
									1057	1.0	1220	.5
									1127	1.0	1250	.4
									1150	.5	1350	.4
									1220	.8	1445	.3
									1250	1.1		
									1320	.3		
									1350	.2		

TABLE 18.--Data from dye study in lower reach of river, August 20-24, 1979

Injection site: Truckee River at Derby Dam
 Site number: 36
 Date of injection: August 20, 1979
 Time of injection: 0900
 Dye volume (liters): 2.0

Sampling site:	At Painted Rock bridge	At old U.S. Hwy. 40 bridge at Wadsworth	At Dead Ox Wash near Nixon
Site number:	39	44	56
River miles below injection:	4.91	11.19	21.70
Estimated discharge during sampling period (ft ³ /s):	47	38	36
Date(s):	Aug. 20-21, 1979	Aug. 21-22, 1979	Aug. 23-24, 1979

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L
	2123	0.00	1945	0.00	1030	0.00
	2200	.2	2000	.1	1145	.1
	2210	.4	2015	.1	1230	.2
	2220	.7	2025	.1	1330	.2
	2230	1.1	2030	.2	1430	.3
	2240	1.5	2050	.2	1530	.4
	2250	2.0	2100	.2	1630	.5
	2300	2.4	2115	.2	1745	.4
	2310	2.9	2130	.2	1830	.5
	2320	3.5	2145	.2	2000	.4
	2330	3.9	2200	.3	2100	.5
	2340	5.2	2215	.3	2203	.5
	2350	5.7	2230	.4	2310	.3
	2400	7.0	2245	.4	0040	.3
	0010	6.2	2300	.4	0203	.3
	0020	5.8	2330	.5	0307	.3
	0030	6.2	2400	.8	0405	.1
	0040	6.5	0030	.9	0501	.1
	0050	6.5	0100	1.1	0610	.1
	0100	6.3	0130	1.3	0718	.1
	0110	6.6	0200	1.4	0810	.1
	0120	6.5	0230	1.6		
	0130	6.4	0300	1.7		
	0140	6.2	0330	1.8		
	0150	6.0	0400	1.7		
	0200	5.8	0430	1.7		
	0210	5.3	0500	1.7		
	0230	4.9	0530	1.6		
	0250	4.5	0600	1.6		
	0310	3.8	0630	1.5		
	0330	3.3	0700	1.3		
	0350	2.8	0800	1.2		
	0400	2.4	0900	1.2		
	0430	2.1	1000	.9		
	0450	1.8	1100	.6		
	0510	1.4	1200	.5		
	0530	1.2	1300	.4		
	0610	1.0	1400	.6		
	0630	.8	1500	.5		
	0700	.6	1600	.5		
	0732	.5	1700	.4		
			1800	.3		
			1900	.3		
			2100	.2		

TABLE 19.--Data from dye study in lower reach of river, January 16, 1980

Injection site: Truckee River at Derby Dam
 Site number: 36
 Date of injection: January 16, 1980
 Time of injection: 0914
 Dye volume (liters): 20.0

Sampling site:	At Painted Rock bridge	At old U.S. Hwy. 40 bridge at Wadsworth	At S Bar S Ranch	At Dead Ox Wash near Nixon	At State Hwy. 447 at Nixon	Below Marble Bluff Dam
Site number:	39	44	51	56	62	65
River miles below injection:	4.91	11.19	17.06	21.70	31.66	34.93
Estimated discharge during sampling period (ft ³ /s):	3,700	3,700	3,800	3,800	3,800	3,800
Date(s):	Jan. 16, 1980	Jan. 16, 1980	Jan. 16, 1980	Jan. 16, 1980	Jan. 16, 1980	Jan. 16, 1980
Rhodamine WT dye concentrations:	<u>Time</u> <u>ug/L</u>	<u>Time</u> <u>ug/L</u>	<u>Time</u> <u>ug/L</u>	<u>Time</u> <u>ug/L</u>	<u>Time</u> <u>ug/L</u>	<u>Time</u> <u>ug/L</u>
	0915 0.00	1134 0.00	1324 0.00	1442 0.00	1725 0.00	1950 1.1
	1020 .03	1150 .06	1330 .1	1457 .09	1750 .01	2001 1.4
	1022 .5	1152 .2	1335 .3	1500 .2	1800 .08	2010 1.9
	1024 2.6	1154 .2	1340 .8	1505 .4	1810 .3	2023 2.7
	1026 4.9	1156 .4	1345 1.6	1510 .7	1820 1.0	2040 2.6
	1029 11	1158 .7	1350 2.7	1515 1.3	1830 2.0	2050 2.9
	1030 13	1200 .9	1355 4.0	1520 1.9	1840 3.0	2110 2.2
	1032 16	1204 8.9	1400 5.5	1525 2.9	1850 4.2	2130 1.9
	1034 19	1206 8.9	1405 6.8	1530 3.7	1900 4.8	2145 1.2
	1036 20	1208 12	1410 7.7	1535 4.4	1910 5.0	2200 1.0
	1038 20	1210 12	1415 8.0	1540 5.0	1930 3.2	2217 .7
	1040 19	1213 13	1420 8.0	1545 5.8	1940 2.6	2230 .5
	1045 15	1215 13	1425 8.1	1550 6.0	1950 2.0	2245 .4
	1050 10	1217 13	1430 6.8	1555 6.1	2003 1.5	2300 .3
	1055 6.8	1219 13	1440 5.0	1600 5.9	2010 1.2	2315 .3
	1100 4.4	1221 12	1450 3.5	1605 5.7	2020 .9	
	1105 3.1	1223 12	1500 2.5	1610 5.1	2030 .8	
	1110 1.9	1225 12	1510 1.7	1615 4.8	2045 .6	
	1115 1.4	1227 11	1520 1.1	1620 4.4	2100 .5	
	1120 1.0	1229 10	1530 .8	1630 3.4	2115 .3	
	1125 .7	1230 9.5	1540 .6	1640 2.3	2135 .2	
	1130 .5	1236 7.7	1550 .5	1650 1.7	2200 .2	
		1241 6.5	1600 .3	1700 1.2	2237 .1	
		1246 5.8		1710 .9		
		1251 3.4		1720 .6		
		1256 2.4		1730 .5		
		1301 1.6		1740 .4		
				1750 .4		
				1800 .3		

TABLE 20.--Data from dye study in lower reach of river, September 21-26, 1980

Injection site: Truckee River at old U.S. Highway 40 bridge at Wadsworth
 Site number: 44
 Date of injection: September 21, 1980
 Time of injection: 1900
 Dye volume (liters): 10.0

Sampling site:	At Dead Ox Wash near Nixon	At Numana Dam near Nixon	At State Hwy. 447 at Nixon	Below Marble Bluff Dam
Site number:	56	59	62	65
River miles below injection:	10.51	15.48	20.47	23.74
Estimated discharge during sampling period (ft ³ /s):	76	80	71	71
Date(s):	Sept. 22-23, 1980	Sept. 23-24, 1980	Sept. 23-24, 1980	Sept. 24-26, 1980

Rhodamine WT dye concentrations:	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>	<u>Time</u>	<u>ug/L</u>
	1345	0.00	0620	0.00	1900	1.9	0935	1.4
	1400	.02	0640	.01	1930	3.0	1020	1.6
	1415	.03	0700	.10	2000	4.2	1105	1.7
	1430	.21	0720	.19	2030	5.3	1150	1.9
	1445	.56	0740	.38	2100	6.0	1235	2.0
	1500	1.1	0800	.76	2130	7.3	1320	2.1
	1515	2.0	0820	1.1	2200	8.0	1405	2.1
	1530	2.9	0840	1.6	2230	8.6	1500	2.0
	1545	4.5	0900	2.1	2300	8.6	1545	2.0
	1600	6.2	0920	3.0	2330	8.6	1630	2.1
	1615	8.2	0940	4.0	2400	8.6	1715	2.2
	1630	10	1000	5.4	0030	8.3	1800	2.1
	1645	12	1020	6.6	0100	8.0	1845	2.0
	1700	14	1040	7.8	0130	7.3	1930	1.9
	1715	16	1100	8.8	0200	6.7	2015	1.7
	1730	17	1120	9.7	0230	6.4	2100	1.6
	1745	18	1140	11	0300	5.9	2230	1.3
	1800	19	1200	11	0330	5.3	2400	1.2
	1815	18	1220	11	0400	4.7	0130	1.1
	1830	18	1240	12	0430	4.1	0300	1.1
	1845	18	1300	12	0500	3.6	0430	1.1
	1900	18	1320	12	0530	3.1	0600	1.1
	1915	16	1340	11	0600	2.7	0730	.98
	1930	16	1400	11	0705	1.9	1115	.98
	2000	14	1420	11	0805	1.5	1245	.86
	2030	12	1440	10	0905	1.1	1415	.73
	2100	11	1500	10	1005	.85	1545	.54
	2130	9.8	1520	9.4	1105	.55	1715	.37
	2200	8.8	1540	9.1			1845	.37
	2230	8.2	1600	8.8			2015	.34
	2300	7.5	1620	8.1			2145	.28
	2330	6.3	1640	7.8			2315	.22
	2400	5.8	1700	7.5			0045	.15
	0030	5.0	1720	6.9			0215	.15
	0100	4.2	1740	6.2			0345	.12
	0130	3.6	1800	6.3			0515	.15
	0200	2.9	1820	5.7			0645	.15
	0230	2.4	1900	4.6			0815	.12
	0300	1.9	1940	3.8				
	0330	1.7	2020	3.0				
	0400	1.4	2100	2.5				
	0430	1.1	2140	1.9				
			2220	1.6				
			2300	1.4				
			2340	1.1				
			0020	.92				

TABLE 21.--Data from dye study in Truckee Canal, May 29-30, 1979

Injection site: Reno-Sparks Sewage Treatment Plant outfall near Reno
 Site number: 21
 Date of injection: May 29, 1979
 Time of injection: 1158
 Dye volume (liters): 12.0

Sampling site:	At U.S. Hwy. 95A near Fernley
Site number:	69
River miles below injection:	31.97
Estimated discharge during sampling period (ft ³ /s):	630
Dates(s):	May 30, 1979

Rhodamine WT dye concentrations:	Time	ug/L
	0750	0.00
	0800	.2
	0810	.5
	0820	1.2
	0830	2.2
	0840	3.1
	0850	4.3
	0900	5.6
	0910	7.0
	0920	7.7
	0930	8.7
	0940	9.5
	0950	10
	1000	10
	1010	9.5
	1020	7.5
	1030	6.6
	1050	4.9
	1113	3.5
	1130	2.4
	1150	1.6
	1213	.8
	1233	.4
	1250	.3

TABLE 22.--Data from dye study in Truckee Canal, September 4-6, 1979

Injection site: Truckee Canal at Derby Dam
 Site number: 66
 Date of injection: September 4, 1979
 Time of injection: 1119
 Dye volume (liters): 7.5

Sampling site:	At U.S. Hwy. 50 above Lahontan Reservoir
Site number:	74
River miles below injection:	30.98
Estimated discharge during sampling period (ft ³ /s):	140
Dates(s):	Sept. 6, 1979

Rhodamine WT dye concentrations:	Time	ug/L
	1130	0.00
	1200	.2
	1230	.6
	1300	4.6
	1330	12
	1400	18
	1430	19
	1500	14
	1530	7.9
	1600	3.9
	1630	1.5
	1700	.6
	1730	.1

TABLE 23.--Data from dye study in Truckee Canal, May 12-16, 1980

Injection site: Truckee Canal at Derby Dam
 Site number: 66
 Date of injection: May 12, 1980
 Time of injection: 2315
 Dye volume (liters): 8.0

Sampling site:	At U.S. Hwy. 95A near Fernley	At Anderson Check Dam near Fernley	At Allendale Check Dam near Fernley	At Mason Check Dam near Hazen	At Bango Check Dam near Hazen	At U.S. Hwy. 50 above Lahontan Reservoir
Site number:	69	70	71	72	73	74
River miles below injection:	13.19	16.35	20.35	25.03	28.17	30.98
Estimated discharge during sampling period (ft ³ /s):	170	140	120	120	110	110
Date(s):	May 13, 1980	May 13-14, 1980	May 14, 1980	May 14-15, 1980	May 14-15, 1980	May 15, 1980

Rhodamine WT dye concentrations:	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L	Time	ug/L
	1400	0.00	2200	0.00	0701	0.00	1532	0.00	2155	0.00	0043	0.00
	1440	.03	2230	.03	0716	.03	1547	.03	2210	.03	0058	.03
	1450	.1	2240	.03	0731	.2	1602	.06	2225	.03	0113	.06
	1500	.3	2255	.2	0746	.6	1617	.1	2240	.06	0128	.1
	1510	1.0	2310	1.1	0801	1.9	1632	.5	2255	.1	0143	.2
	1520	2.6	2325	2.9	0816	4.0	1647	1.0	2310	.2	0258	.5
	1530	5.1	2340	6.5	0831	6.8	1702	1.8	2325	.5	0313	.8
	1540	8.2	2355	10	0846	10	1717	3.1	2340	.9	0328	1.3
	1550	12	0010	14	0901	13	1732	5.0	2355	1.5	0343	2.0
	1600	15	0025	14	0916	13	1747	6.6	0010	2.1	0358	2.8
	1610	17	0040	14	0931	11	1802	8.0	0025	3.1	0413	3.8
	1620	17	0055	12	0946	9.1	1817	9.2	0040	4.3	0428	5.0
	1630	16	0130	5.6	1001	6.8	1832	11	0055	5.6	0443	6.0
	1640	14	0200	2.4	1033	5.3	1847	12	0110	6.6	0458	7.0
	1700	4.5	0230	.9	1045	3.6	1902	12	0125	7.3	0513	7.9
	1720	4.3	0300	.3	1100	2.4	1917	11	0210	9.3	0528	8.8
	1740	1.6			1115	1.6	1932	9.9	0225	9.9	0543	8.8
	1800	.7			1145	.9	1945	8.9	0240	9.9	0558	9.2
	1820	.4			1200	.6	2000	8.0	0255	9.3	0613	9.2
	1840	.2			1215	.4	2015	6.6	0310	8.6	0628	8.5
	1900	.1			1230	.3	2030	5.8	0325	7.6	0643	8.5
							2045	4.6	0340	6.9	0658	7.6
							2100	3.9	0355	6.1	0713	7.0
							2115	3.1	0410	5.0	0728	6.1
							2130	2.4	0440	3.4	0743	5.0
							2145	2.0	0455	2.9	0800	4.0
							2200	1.5	0510	2.1	0815	3.4
							2215	1.2	0525	1.7	0830	2.8
							2230	.9	0540	1.4	0845	2.3
							2245	.7	0555	1.0	0900	2.0
							2300	.5	0610	.8	0915	1.6
							2315	.4	0625	.7	0930	1.3
							2330	.4	0640	.5	0945	1.1
							2345	.4	0655	.4	1000	.9
							2400	.3	0710	.3	1015	.8
							0015	.3	0725	.3	1030	.6
							0045	.2	0740	.3	1045	.5
							0100	.2	0755	.2	1100	.4
							0115	.2	0810	.2	1115	.4
									0825	.2	1130	.3
									0840	.1	1145	.2
									0855	.1	1200	.2
											1215	.2
											1230	.2
											1245	.2
											1300	.2
											1315	.1
											1330	.1
											1345	.1
											1400	.1
											1415	.1
											1430	.09

TABLE 24.--Data from reaseration study in middle reach of river, October 18, 1979

Injection site: Truckee River at Lockwood

Site number: 23

Date of injection: October 18, 1979

Discharge (ft³/s): 380

Water temperature (°C): 11.5

Begin injection time: 0828 End injection time: 1026

Dye volume (liters): 20.0 Dye concentration (g/L): 80

Sampling site:	At upper bridge near Mustang	At Patrick	Below Tracy
Site number:	24	27	33
River miles below injection:	1.80	5.13	9.43
Estimated discharge during sampling period (ft ³ /s):	380	360	360
Water temperature (°C):	12.5	12.5	13.0
Date(s):	Oct. 18, 1979	Oct. 18, 1979	Oct. 18, 1979

Rhodamine WT dye and ethylene concentrations:	Time	Dye (ug/L) ^a	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
	0940	2.4	--	1230	0.00	--	1730	0.00	--
	0945	6.3	--	1240	.6	--	1745	.1	--
	0950	11	--	1250	2.9	--	1800	1.0	--
	0955	14	--	1300	4.9	--	1815	2.0	--
	1000	16	--	1310	7.9	--	1824	3.8	--
	1005	20	--	1320	10	--	1830	4.7	--
	1010	21	--	1330	13	4.9	1840	6.3	--
	1015	23	20	1340	15	5.8	1851	8.3	--
	1020	22	--	1350	16	6.1	1900	9.5	--
	1025	24	21	1355	18	--	1910	12	--
	1030	24	22	1400	19	7.6	1920	13	--
	1035	24	22	1405	19	7.8	1921	--	1.2
	1040	26	21	1410	20	7.8	1926	--	1.4
	1045	26	--	1415	21	7.6	1930	14	1.5
	1050	28	21	1420	--	7.8	1935	--	1.5
	1055	28	22	1425	22	7.6	1940	15	1.5
	1100	--	22	1430	--	7.1	1945	--	1.4
	1105	--	22	1435	24	7.1	1950	16	1.5
	1110	29	21	1440	--	7.1	2000	16	1.3
	1120	30	21	1445	20	6.2	2005	--	1.3
	1130	30	20	1450	--	5.9	2010	16	1.3
	1140	29	--	1455	18	5.3	2015	--	1.2
	1150	17	--	1505	15	--	2020	16	--
	1200	10	--	1515	12	--	2030	15	--
				1525	7.4	--	2040	14	--
				1555	4.0	--	2100	10	--
				1615	2.0	--	2130	7.2	--
							2200	4.5	--
							2230	2.5	--
							2300	1.0	--
							2330	.6	--
							2400	.1	--

^a Relative rather than absolute dye concentrations due to problems in equipment calibration.

TABLE 25.--Data from reaeration study in middle reach of river, July 31-August 1, 1980

Injection site: Truckee River at Lockwood
 Site number: 23
 Date of injection: July 31, 1980
 Discharge (ft³/s): 320
 Water temperature (°C): 22.0
 Begin injection time: 0901 End injection time: 1101
 Dye volume (liters): 14.0 Dye concentration (g/L): 160

Sampling site:	At upper bridge near Mustang	At McCarran diversion dam	Below McCarran diversion dam	At Patrick
Site number:	24	25	26	27
River miles below injection:	1.80	3.65	3.70	5.13
Estimated discharge during sampling period (ft ³ /s):	320	340	330	330
Water temperature (°C):	22.5	24.0	24.0	24.5
Date(s):	July 31, 1980	July 31, 1980	July 31, 1980	July 31, 1980

Rhodamine WT dye and ethylene concentrations	At upper bridge near Mustang			At McCarran diversion dam			Below McCarran diversion dam			At Patrick		
	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
	1010	0.00	---	1115	0.00	---	1115	0.00	---	1303	0.00	---
	1020	3.9	---	1200	.03	---	1205	.8	---	1315	.7	---
	1025	16	---	1205	.4	---	1210	2.0	---	1320	1.4	---
	1030	23	---	1210	1.0	---	1215	3.7	---	1325	2.7	---
	1035	28	---	1215	2.7	---	1220	6.4	---	1330	4.5	---
	1040	33	16	1220	5.1	---	1225	9.9	---	1335	5.5	---
	1045	34	18	1225	8.3	---	1230	13	---	1340	9.0	---
	1050	36	19	1230	11	---	1235	16	---	1345	10	---
	1055	37	19	1235	14	---	1240	19	---	1350	14	---
	1100	37	21	1240	18	---	1245	21	---	1355	17	---
	1105	36	20	1245	22	---	1250	23	---	1400	18	---
	1110	36	18	1250	25	---	1255	25	---	1405	20	---
	1115	35	20	1255	25	---	1300	27	12	1410	21	---
	1120	34	21	1300	27	12	1305	28	11	1415	24	---
	1125	34	21	1305	29	13	1310	28	12	1420	26	2.9
	1130	35	20	1310	29	13	1315	29	12	1425	26	5.5
	1135	34	20	1315	29	13	1320	30	13	1430	27	5.6
	1140	35	20	1320	30	14	1325	30	13	1435	28	5.7
	1145	34	20	1325	32	14	1330	30	13	1440	29	5.7
	1150	35	20	1330	32	14	1335	30	13	1445	30	5.8
	1155	---	20	1335	32	14	1340	30	13	1450	31	6.1
	1200	33	20	1340	32	14	1345	31	14	1455	31	6.1
	1205	---	19	1345	32	14	1350	31	---	1500	31	6.8
	1210	34	19	1350	30	14	1355	30	12	1505	30	6.6
	1215	---	19	1355	32	13	1400	31	12	1510	31	6.3
	1220	27	---	1400	32	14	1405	31	13	1515	31	6.0
	1223	---	13	1405	32	14	1410	30	13	1520	30	6.1
	1230	14	---	1410	30	13	1415	28	11	1525	29	5.7
	1240	6.9	---	1415	30	14	1420	25	11	1530	27	5.5
	1250	3.1	---	1420	28	12	1425	22	---	1535	26	4.9
	1300	2.1	---	1430	20	---	1430	19	---	1540	23	---
	1310	1.1	---	1440	16	---	1440	14	---	1545	21	---
				1450	12	---	1450	9.8	---	1550	20	---
				1500	7.4	---	1500	6.9	---	1600	15	---
				1510	5.1	---	1510	4.8	---	1610	12	---
				1520	3.7	---	1520	3.3	---	1620	8.8	---
				1530	2.6	---	1530	2.5	---	1630	6.5	---
				1540	1.8	---	1540	1.7	---	1640	4.8	---
				1550	1.4	---	1550	1.2	---	1650	3.5	---
										1700	2.7	---
										1710	2.1	---
										1720	1.5	---

TABLE 25.--Data from reaeration study in middle reach of river, July 31-August 1, 1980--Continued

Injection site: Truckee River at Lockwood
 Site number: 23
 Date of injection: July 31, 1980
 Discharge (ft³/s): 320
 Water temperature (°C): 22.0
 Begin injection time: 0901 End injection time: 1101
 Dye volume (liters): 14.0 Dye concentration (g/L): 160

Samplings site:	At Hill diversion dam	Below Hill diversion dam	At Clark	At Derby Dam
Site number:	29	30	34	36
River miles below injection:	8.03	8.05	11.45	15.17
Estimated discharge during sampling period (ft ³ /s):	330	320	330	330
Water temperature (°C):	24.5	24.5	23.5	22.5
Date(s):	July 31, 1980	July 31, 1980	July 31-Aug. 1, 1980	Aug. 1, 1980

Rhodamine WT dye and ethylene concentrations:	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
	1440	0.00	—	1605	0.00	—	1935	0.00	—	2400	0.00	—
	1605	.03	—	1610	.06	—	1940	.03	—	0010	.1	—
	1610	.06	—	1615	.2	—	1950	.1	—	0020	.2	—
	1615	.2	—	1620	.4	—	2000	.3	—	0030	.4	—
	1620	.5	—	1625	.6	—	2010	.8	—	0040	.9	—
	1625	.5	—	1630	.9	—	2020	1.4	—	0050	1.2	—
	1630	1.0	—	1635	1.5	—	2030	2.4	—	0100	1.7	—
	1635	1.6	—	1640	2.0	—	2040	3.7	—	0110	2.3	—
	1640	2.4	—	1645	4.1	—	2050	5.1	—	0120	3.3	—
	1645	3.0	—	1650	4.7	—	2100	7.0	—	0130	4.2	—
	1650	3.7	—	1700	6.2	—	2110	8.8	—	0140	5.1	—
	1655	5.4	—	1705	7.4	—	2120	10	—	0150	6.5	—
	1700	7.5	—	1710	8.4	—	2130	12	—	0200	8.2	—
	1705	7.7	—	1715	11	—	2140	14	—	0210	9.1	—
	1710	9.2	—	1720	12	—	2145	—	0.72	0220	10	—
	1715	12	—	1725	13	—	2150	16	.75	0230	12	0.29
	1720	8.9	—	1730	15	—	2155	—	.78	0235	—	.28
	1725	12	—	1735	16	—	2200	17	.77	0240	13	.31
	1730	16	—	1740	16	—	2205	—	.82	0245	—	.30
	1735	16	—	1745	18	2.3	2210	18	.86	0250	14	.30
	1740	17	2.3	1750	20	2.5	2215	—	.84	0255	—	.32
	1745	18	2.4	1755	20	2.2	2220	18	.83	0300	14	.33
	1750	20	2.7	1800	21	2.3	2225	—	.87	0310	15	.32
	1755	21	2.6	1805	21	2.6	2230	18	.82	0315	—	.33
	1800	23	2.8	1810	22	2.8	2235	—	.80	0320	15	.31
	1805	23	2.9	1815	23	2.8	2240	18	.71	0325	—	.34
	1810	23	2.8	1820	23	2.6	2245	—	.79	0330	15	.33
	1815	23	3.0	1825	23	2.5	2250	18	.76	0335	—	.31
	1820	23	3.0	1830	23	2.4	2255	—	.76	0340	15	.28
	1825	23	2.9	1835	23	2.6	2300	17	.75	0350	14	.28
	1830	22	3.0	1840	22	2.5	2310	—	.66	0400	13	.27
	1835	22	3.1	1845	22	2.4	2320	17	.58	0410	12	—
	1840	22	2.9	1850	21	2.3	2340	13	—	0430	11	—
	1845	22	2.9	1855	—	2.1	2400	10	—	0450	10	—
	1850	22	2.5	1900	—	2.0	0020	8.4	—	0510	7.9	—
	1855	—	2.5	1905	18	1.9	0030	6.6	—	0530	6.9	—
	1900	—	2.5	1920	15	—	0050	5.4	—	0550	5.0	—
	1905	21	2.2	1935	12	—	0110	4.0	—	0610	3.8	—
	1920	15	—	1950	9.4	—	0130	2.9	—	0630	4.3	—
	1935	12	—	2005	7.1	—	0150	2.2	—	0650	3.4	—
	1950	9.1	—	2020	5.5	—	0210	1.6	—	0710	2.2	—
	2005	8.2	—	2035	4.2	—	0230	1.2	—	0730	1.3	—
	2020	4.4	—	2050	3.0	—	0250	.9	—	0750	2.3	—
	2035	3.4	—	2105	2.4	—	0310	.7	—	0810	1.2	—
	2050	2.7	—	2120	1.7	—	0330	.5	—	0830	1.1	—
	2105	2.2	—	2135	1.3	—	0350	.4	—	0850	.8	—
	2120	1.9	—				0410	.4	—	0910	.7	—
	2135	1.2	—				0430	.4	—	0930	.6	—
							0450	.3	—	0950	.5	—
										1010	.5	—
										1030	.4	—

° Estimated.

TABLE 26.--Data from reaeration study in middle reach of river, August 28, 1980

Injection site: Truckee River below Hill diversion dam

Site number: 30

Date of injection: August 28, 1980

Discharge (ft³/s): 360Water temperature (°C): ^a20.0

Begin injection time: 1318 End injection time: 1348

Dye volume (liters): 3.5 Dye concentration (g/L): 160

Sampling site:

At Tracy
diversion damBelow Tracy
diversion dam

Site number:

31

32

River miles below injection:

1.24

1.27

Estimated discharge during

sampling period (ft³/s):

360

360

Water temperature (°C):

^a20.5^a20.5

Date(s):

Aug. 28, 1980

Aug. 28, 1980

Rhodamine WT dye and
ethylene concentrations:

Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
1133	0.00	---	1420	0.48	---
1420	.92	---	1423	2.0	---
1423	2.7	---	1425	3.6	0.24
1425	3.4	0.27	1428	6.3	---
1428	3.4	---	1430	7.6	.67
1430	7.9	.76	1433	11	---
1433	8.8	---	1435	12	1.5
1435	12.6	2.0	1438	14	---
1438	14	---	1440	15	2.5
1440	14	2.3	1443	17	---
1443	14	---	1445	17	3.0
1445	19	4.0	1448	19	---
1448	17	---	1450	19	3.7
1450	20	---	1453	18	---
1453	19	---	1455	18	3.9
1455	17	4.1	1458	16	---
1458	14	---	1500	15	3.4
1500	14	3.5	1503	13	---
1503	13	---	1505	11	---
1505	11	---	1508	9.1	---
1508	11	---	1510	8.5	---
1510	8.2	---	1513	6.3	---
1513	6.9	---	1515	6.3	---
1515	7.6	---	1520	4.7	---
1520	4.5	---	1525	3.7	---
1525	3.2	---	1530	2.5	---
1530	1.6	---	1535	2.0	---
1535	1.8	---	1540	1.4	---
1540	1.5	---	1545	1.1	---
1545	1.1	---	1550	.79	---
1550	.47	---	1555	.48	---
1555	.54	---			

^a Estimated.

TABLE 27.--Data from regeneration study in lower reach of river, October 10-12, 1979

Injection site: Truckee River at old U.S. Highway 40 bridge at Wadsworth
 Site number: 44
 Date of injection: October 10, 1979
 Discharge (ft³/s): 47
 Water temperature (°C): 14.5
 Begin injection time: 1011 End injection time: 1211
 Dye volume (liters): 5.5 Dye concentration (g/L): 107

Sampling site:	Below Fellnagle diversion dam at Wadsworth	At river mile 15.8	At Dead Ox Wash near Nixon
Site number:	47	53	56
River miles below injection:	1.14	7.85	10.49
Estimated discharge during sampling period (ft ³ /s):	45	59	59
Water temperature (°C):	16.0	15.0	16.0
Date(s):	Oct. 10-11, 1979	Oct. 11, 1979	Oct. 11-12, 1979

Rhodamine WT dye and ethylene concentrations:	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
	1505	0.00	--	0645	0.00	--	1140	0.00	--
	1511	.7	--	0705	.2	--	1150	.1	--
	1520	1.0	--	0710	.2	--	1200	.2	--
	1525	2.0	--	0715	.4	--	1202	.3	--
	1530	3.0	--	0720	.4	--	1205	.3	--
	1535	3.9	--	0730	.9	--	1210	.3	--
	1540	4.2	--	0750	1.8	--	1215	.6	--
	1545	5.1	--	0800	2.3	--	1220	.6	--
	1550	6.1	--	0810	2.4	--	1230	.8	--
	1555	6.7	--	0820	2.9	--	1245	1.3	--
	1600	7.9	--	0830	3.5	--	1300	1.7	--
	1615	13	--	0840	3.9	--	1315	2.3	--
	1620	15	--	0850	4.6	--	1330	2.9	--
	1625	15	--	0900	5.0	--	1345	3.4	--
	1630	17	--	0910	5.7	0.34	1400	4.0	--
	1636	16	--	0920	6.0	.36	1415	4.5	0.12
	1640	18	--	0930	6.4	--	1430	5.0	.11
	1645	19	--	0940	6.7	.38	1445	5.5	.12
	1656	20	--	0950	7.1	--	1500	6.1	.13
	1700	21	--	0952	--	.39	1515	6.4	.14
	1706	23	--	1000	7.2	.43	1530	6.5	.13
	1710	24	--	1010	7.6	.43	1545	6.8	.13
	1715	26	51	1020	7.6	.42	1600	6.9	.12
	1722	26	--	1030	7.6	.42	1615	6.9	.13
	1726	27	--	1040	7.6	.42	1630	6.8	.11
	1730	--	59	1050	7.6	.40	1645	6.7	.10
	1735	28	--	1100	7.6	.39	1705	6.5	.10
	1740	28	--	1130	7.4	.35	1715	6.4	.10
	1745	--	62	1200	6.2	--	1730	6.1	.09
	1750	29	--	1215	6.2	--	1750	5.8	.08
	1755	--	66	1230	6.0	--	1803	5.4	.07
	1800	29	--	1245	5.7	--	1815	5.2	--
	1805	29	66	1300	5.1	--	1830	4.9	--
	1810	30	65	1315	4.7	--	1900	4.4	--
	1815	--	61	1330	4.2	--	1930	4.0	--
	1820	30	61	1345	4.0	--	2000	3.4	--
	1825	30	64	1400	3.7	--	2030	3.1	--
	1830	30	61	1415	3.5	--	2100	2.8	--
	1835	30	64	1430	3.3	--	2130	2.4	--
	1840	30	--	1445	3.1	--	2200	2.2	--
	1845	27	59	1500	2.8	--	2230	2.1	--
	1855	22	--	1515	2.6	--	2300	2.0	--
	1905	20	--	1530	2.4	--	2330	1.9	--
	1915	19	--	1545	2.2	--	2400	1.8	--
	1925	17	--	1600	2.1	--	0030	1.7	--
	1935	16	--	1615	1.9	--	0100	1.4	--
	1950	15	--	1630	2.0	--	0130	1.4	--
	2005	15	--	1645	2.0	--	0200	1.3	--
	2020	13	--	1700	1.8	--	0230	1.2	--
	2035	10	--				0300	1.1	--
	2050	8.2	--				0530	.4	--
	2105	6.2	--				0600	.4	--
	2120	4.9	--				0630	.3	--
	2135	4.3	--				0730	.1	--
	2150	3.0	--						
	2205	2.4	--						
	2220	1.7	--						
	2235	1.7	--						
	2250	1.1	--						
	2305	1.1	--						
	2320	1.1	--						
	2335	1.1	--						
	0035	.4	--						

TABLE 28.--Data from reoperation study in lower reach of river, July 28-29, 1980

Injection site: Truckee River at old U.S. Highway 40 bridge at Wadsworth
 Site number: 44
 Date of injection: July 28, 1980
 Discharge (ft³/s): 64
 Water temperature (°C): 23.5
 Begin injection time: 0846 End injection time: 1046
 Dye volume (liters): 5.0 Dye concentration (g/L): 80

Sampling site:	At Fellnagle diversion dam at Wadsworth	Below Fellnagle diversion dam at Wadsworth	At S Bar S diversion dam	At Dead Ox Wash near Nixon
Site number:	46	47	49	56
River miles below injection:	1.12	1.14	3.83	10.49
Estimated discharge during sampling period (ft ³ /s):	72	60	72	90
Water temperature (°C):	^e 24.5	^e 24.5	^e 23.5	^e 21.5
Date(s):	July 28, 1980	July 28, 1980	July 28-29, 1980	July 29, 1980

Rhodamine WT dye and ethylene concentrations:	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)	Time	Dye (ug/L)	Ethylene (ug/L)
	1227	0.00	--	1227	0.00	--	1655	0.00	--	0610	0.00	--
	1230	.4	--	1240	1.1	--	1705	.08	--	0620	2.1	--
	1240	1.1	--	1245	1.7	--	1715	.2	--	0630	2.3	--
	1245	2.1	--	1250	2.8	--	1725	.4	--	0640	2.7	--
	1250	2.9	--	1255	4.6	--	1735	.8	--	0650	2.9	--
	1255	4.1	--	1300	6.0	--	1745	1.2	--	0700	3.3	--
	1300	5.4	--	1305	7.5	--	1755	1.9	--	0710	3.6	--
	1305	6.7	--	1310	9.0	--	1805	2.5	--	0715	--	0.26
	1310	7.4	--	1315	11	95	1815	3.5	--	0720	3.9	.26
	1315	10	110	1320	13	--	1825	4.3	--	0725	--	.26
	1320	11	120	1325	14	110	1835	5.2	--	0730	4.1	.28
	1325	13	--	1330	15	110	1845	6.2	--	0735	--	.30
	1330	14	120	1335	16	110	1850	--	14	0740	4.4	.28
	1335	14	130	1340	16	120	1855	7.1	14	0745	--	.29
	1340	15	140	1345	16	120	1900	--	16	0750	4.6	.28
	1345	15	140	1350	17	110	1905	8.2	18	0755	--	.29
	1350	17	140	1355	16	110	1915	8.9	--	0800	4.7	.29
	1355	17	140	1400	18	110	1925	9.1	--	0805	--	.29
	1400	18	130	1405	18	110	1935	9.6	19	0810	4.9	.28
	1405	18	130	1410	18	110	1940	--	19	0815	--	.28
	1410	18	--	1415	19	110	1945	10	19	0820	5.0	.27
	1415	18	140	1420	20	110	1950	--	19	0825	--	.27
	1420	20	140	1425	20	110	1955	10	19	0830	5.0	.27
	1425	20	120	1430	20	110	2000	--	19	0835	--	.25
	1430	18	120	1435	19	100	2005	10	18	0840	4.9	.25
	1435	18	120	1440	19	97	2010	--	18	0845	--	.33
	1440	17	100	1445	18	95	2015	10	18	0850	4.9	.24
	1445	16	100	1450	16	89	2020	--	17	0900	4.8	.23
	1450	14	95	1455	15	81	2025	9.9	16	0910	4.6	--
	1455	12	86	1500	15	89	2030	--	17	0925	4.3	--
	1500	12	88	1510	13	--	2035	9.2	16	0940	4.1	--
	1510	12	--	1520	13	--	2040	--	15	0955	3.7	--
	1520	12	--	1530	9.9	--	2045	8.7	14	1010	3.5	--
	1530	10	--	1540	7.3	--	2050	--	14	1025	3.1	--
	1540	7.4	--	1550	6.2	--	2055	8.1	14	1040	2.7	--
	1550	6.6	--	1600	4.5	--	2118	7.0	--	1055	2.6	--
	1600	5.6	--	1610	4.8	--	2135	5.8	--	1110	2.2	--
	1610	5.2	--	1620	3.3	--	2155	4.7	--	1115	2.3	--
	1620	3.6	--	1630	2.4	--	2215	3.6	--	1125	2.2	--
	1630	2.4	--	1640	1.8	--	2235	.7	--	1145	1.9	--
	1640	1.9	--				2255	.6	--	1205	1.6	--
							2315	.4	--	1225	1.4	--
							2335	.4	--	1245	1.2	--
							2355	.3	--	1305	1.0	--
							0015	.3	--	1325	.9	--
							0035	.2	--	1345	.7	--
							0055	.2	--	1405	.6	--
										1425	.6	--
										1445	.6	--
										1505	.5	--
										1525	.5	--
										1545	.4	--
										1605	.4	--
										1625	.4	--
										1645	.3	--

^e Estimated.

TABLE 29.--Summary of traveltime data from dye studies in upper reach of river, 1979-80

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
4	At State Highway 267 at Truckee	0.0	05/31/79	--	--	--	0.0	--	--	0.0	--	--	a1.63	a100
6	At old U.S. Highway 40 bridge below Truckee	4.69	05/31/79	440	2.3	2.9	3.0	4.0	1.6	1.7	61	22	1.59	98
10	At Boca bridge	9.62	05/31/79	520	4.9	5.8	6.0	8.5	1.6	3.6	33	11	1.45	89
12	Below Farad	19.77	05/31/79	680	10.3	11.5	11.9	14.8	1.7	4.5	11	3.7	1.34	82
15	At Mayberry Drive	35.16	06/01/79	510	18.3	20.8	21.4	25.4	1.6	7.1	4.5	1.6	.83	51
22	At Vista	48.63	06/01/79	450	27.8	31.2	32.3	39.1	1.2	11.4	2.5	.8	.50	31
4	At State Highway 267 at Truckee	0.0	05/21/80	640	--	--	0.0	--	--	0.0	--	--	a3.50	a100
6	At old U.S. Highway 40 bridge below Truckee	4.69	05/21/80	740	1.7	2.1	2.1	3.1	2.2	1.4	59	20	--	(b)
10	At Boca bridge	9.62	05/21/80	1700	3.4	4.0	4.1	6.0	2.5	2.6	35	12	--	(c)
12	Below Farad	19.58	05/21/80	2300	6.2	7.1	7.2	9.1	3.2	2.9	14	4.6	2.72	78
15	At Mayberry Drive	35.16	05/21/80	2300	10.3	11.9	12.1	14.2	3.2	3.9	7.6	2.7	2.34	67
22	At Vista	48.63	05/21-22/80	2400	15.3	16.6	16.9	20.6	2.8	5.3	5.5	1.5	2.06	59
4	At State Highway 267 at Truckee	0.0	10/14/80	32	--	--	0.0	--	--	0.0	--	--	a2.04	a100
6	At old U.S. Highway 40 bridge below Truckee	4.69	10/14/80	40	7.2	9.2	9.7	14.3	0.48	7.1	101	35	--	(d)
10	At Boca bridge	9.62	10/14-15/80	310	14.5	17.1	17.5	22.0	.63	7.5	25	8.3	--	(e)
12	Below Farad	19.58	10/15/80	380	22.1	24.7	25.7	33.1	1.2	11.0	9.6	3.3	1.22	60
15	At Mayberry Drive	35.16	10/15-16/80	240	32.5	36.4	38.3	48.3	1.2	15.8	4.4	1.4	.59	29
16	Near Sparks	44.74	10/16/80	240	42.1	46.8	48.9	60.6	.90	18.7	3.4	1.1	.55	27
22	At Vista	48.63	10/16/80	420	47.3	51.3	53.7	69.0	.81	21.7	1.7	.5	.49	24

^a Injected dye mass.

^b Large inflow from Martis Creek probably caused poor mixing at this site. Accurate calculation of percent recovery not possible.

^c Large inflow from Little Truckee River caused poor mixing at this site. Accurate calculation of percent recovery not possible.

^d Fluorometer quenching occurred because of high dye concentrations. Estimates of dye concentrations probably too low. Accurate calculation of percent recovery not possible.

TABLE 30.--Summary of traveltime data from dye studies in middle reach of river, 1979-80

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
21	Reno-Sparks Sewage Treatment Plant outfall, near Reno	0.0	05/29/79	a81	--	--	0.0	--	--	0.0	--	--	b1.95	b100
22	At Vista	1.43	05/29/79	800	1.1	1.3	1.5	2.3	0.95	1.2	48	17	1.79	92
23	At Lockwood	3.61	05/29/79	780	2.3	2.8	3.1	4.7	1.4	2.4	29	9.7	1.90	98
27	At Patrick	8.74	05/29/79	770	4.9	5.9	6.1	8.2	1.7	3.3	21	6.5	1.68	86
33	Below Tracy	13.04	05/29/79	770	7.8	8.9	9.2	11.5	1.4	3.7	14	4.7	1.59	81
36	At Derby Dam	18.78	05/30/79	760	12.3	13.6	13.9	16.1	1.2	3.8	12	3.7	1.47	75
21	Reno-Sparks Sewage Treatment Plant outfall, near Reno	0.0	09/04/79	a78	--	--	0.0	--	--	0.0	--	--	b0.73	b100
22	At Vista	1.43	09/04/79	260	1.5	1.9	2.2	4.0	0.65	2.5	32	11	.63	86
23	At Lockwood	3.61	09/04/79	240	4.3	5.3	5.7	8.2	.62	3.9	14	5.0	.57	78
27	At Patrick	8.74	09/04-05/79	230	9.8	11.8	12.2	15.9	.79	6.1	7.4	2.6	.52	71
36	At Derby Dam	18.78	09/05/79	220	24.0	27.5	28.1	32.8	.59	8.8	3.5	1.4	.39	53
21	Reno-Sparks Sewage Treatment Plant outfall, near Reno	0.0	01/18/80	a,d220	--	--	0.0	--	--	0.0	--	--	b2.60	b100
22	At Vista	1.43	01/18/80	2900	0.7	0.9	1.0	1.7	1.4	1.0	21	7.1	2.06	79
23	At Lockwood	3.61	01/18/80	2900	1.3	1.8	1.8	2.8	2.7	1.5	15	5.0	1.77	c68
27	At Patrick	8.74	01/18/80	3200	2.7	3.2	3.3	4.3	3.4	1.6	11	3.8	2.24	86
33	Below Tracy	13.04	01/18/80	3200	4.0	4.7	4.8	6.7	2.9	2.7	8.5	2.9	2.16	83
36	At Derby Dam	18.78	01/18/80	3300	6.0	6.9	7.0	8.5	2.6	2.5	6.4	2.3	2.17	83

a Combined discharge of Sewage Treatment Plant and Steamboat Creek.

b Injected dye mass.

c Loss of samples near peak dye concentration make percent recovery uncertain.

d Estimated.

TABLE 31.--Summary of traveltime data from dye studies in lower reach of river, 1979-80

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
36	At Derby Dam	0.0	05/23/79	370	--	--	0.0	--	--	0.0	--	--	a2.44	a100
39	At Painted Rock bridge	4.91	05/23/79	370	3.0	3.5	3.7	5.4	1.3	2.4	69	25	2.34	96
44	At old U.S. Highway 40 bridge at Wadsworth	11.19	05/23/79	370	6.9	8.0	8.3	10.2	1.4	3.3	38	13	2.02	83
56	At Dead Ox Wash near Nixon	21.70	05/24/79	310	14.0	16.1	16.4	20.8	1.3	6.8	23	7.8	1.79	73
62	At State Highway 447 at Nixon	31.66	05/24/79	270	22.9	26.7	27.0	33.4	.94	10.5	17	5.6	1.76	72
63	At Marble Bluff Dam	34.88	05/24-25/79	240	29.2	31.8	37.2	50.7	.32	21.5	6.0	1.5	1.27	52
65	Below Marble Bluff Dam	34.93	05/24-25/79	240	29.4	32.7	37.3	51.2	b.32	21.8	4.5	1.4	1.06	43
36	At Derby Dam	0.0	08/20/79	48	--	--	0.0	--	--	0.0	--	--	a0.33	a100
39	At Painted Rock bridge	4.91	08/20-21/79	47	12.5	16.0	17.0	25.0	.29	12.5	6.5	2.3	.15	47
44	At old U.S. Highway 40 bridge at Wadsworth	11.19	08/21-22/79	38	35.0	43.0	46.3	60.0	.21	25.0	1.8	.6	.08	23
56	At Dead Ox Wash near Nixon	21.70	08/23-24/79	36	73.3	82.3	83.7	96.0	.28	22.7	.5	.2	.02	7
36	At Derby Dam	0.0	01/16/80	3700	--	--	0.0	--	--	0.0	--	--	a3.26	a100
39	At Painted Rock bridge	4.91	01/16/80	3700	1.1	1.4	1.5	2.6	3.3	1.5	20	6.5	3.20	98
44	At old U.S. Highway 40 bridge at Wadsworth	11.19	01/16/80	3700	2.6	3.0	3.2	4.1	3.7	1.5	13	4.9	3.10	95
51	At S Bar S Ranch	17.06	01/16/80	3800	4.2	5.1	5.3	7.4	2.8	3.2	8.0	2.7	3.04	93
56	At Dead Ox Wash near Nixon	21.70	01/16/80	3800	5.7	6.7	6.9	9.3	2.9	3.6	6.2	2.1	2.91	89
62	At State Highway 447 at Nixon	31.66	01/16/80	3800	8.6	9.9	10.2	13.7	3.0	5.1	5.0	1.6	2.65	81
65	Below Marble Bluff Dam	34.93	01/16/80	3800	10.1	11.5	11.9	15.0	1.9	4.9	3.0	1.0	2.17	67
44	At old U.S. Highway 40 bridge at Wadsworth	0.0	09/21/80	76	--	--	0.0	--	--	0.0	--	--	a1.63	a100
56	At Dead Ox Wash near Nixon	10.51	09/22-23/80	76	19.0	23.1	25.1	35.5	0.42	16.5	19	6.1	.89	55
59	At Numana Dam near Nixon	15.48	09/23-24/80	80	35.7	41.9	44.0	56.7	.26	21.0	12	4.1	.82	50
62	At State Highway 447 at Nixon	20.47	09/23-24/80	71	47.2	52.5	54.0	67.6	.50	20.4	8.6	3.1	.55	33
65	Below Marble Bluff Dam	23.74	09/24-26/80	71	c61.1	66.3	76.2	109	.15	47.9	2.2	.7	.34	21

a Injected dye mass.

b Velocity computed from State Highway 447 bridge at Nixon.

c Estimated.

TABLE 32.—Summary of traveltime data from dye studies in Truckee Canal, 1979-81

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
66	At Derby Dam	418.78	05/30/79	700	12.3	13.6	13.9	16.1	—	3.8	12	3.7	1.47	75
69	At U.S. Highway 95A near Fernley	431.97	05/30/79	630	19.9	21.9	22.1	26.1	1.6	6.2	10	3.4	1.32	68
66	At Derby Dam	0.0	09/04/79	200	—	—	0.0	—	—	0.0	—	—	b1.22	b100
74	At U.S. Highway 50 above Lahontan Reservoir	30.98	09/06/79	140	49.0	51.1	51.2	56.6	0.61	7.6	19	6.6	.59	48
66	At Derby Dam	0.0	05/12/80	200	—	—	0.0	—	—	0.0	—	—	b1.30	b100
69	At U.S. Highway 95A near Fernley	13.19	05/13/80	170	15.3	17.0	17.2	20.1	0.77	4.8	17	6.1	.43	33
70	At Anderson Check Dam near Fernley	16.35	05/13-14/80	140	23.1	25.2	25.4	28.6	.39	5.5	14	5.1	.36	28
71	At Allendale Check Dam near Fernley	20.35	05/14/80	120	32.1	34.0	34.3	38.0	.45	5.9	14	4.4	.30	23
72	At Mason Check Dam near Hazen	25.03	05/14-15/80	120	40.5	43.7	44.2	50.8	.47	10.3	12	3.9	.42	32
73	At Bango Check Dam near Hazen	28.17	05/14-15/80	110	46.7	51.3	51.5	58.2	.43	11.5	10	3.4	.40	31
74	At U.S. Highway 50 above Lahontan Reservoir	30.98	05/15/80	110	49.8	54.7	55.2	63.5	.76	13.7	9.3	3.2	.40	31
66	At Derby Dam	0.0	10/20/81	655	—	—	0.0	—	—	—	—	—	—	—
67	At Pyramid Check Dam near Wadsworth ^c	6.04	10/20/81	640	4.0	4.4	4.5	5.6	1.3	1.6	—	—	—	—
68	At Auxiliary gage near Wadsworth ^c	8.88	10/20/81	635	5.1	5.7	5.8	6.9	2.2	1.8	—	—	—	—
69	At U.S. Highway 95A near Fernley ^{c,d}	13.40	10/20/81	620	8.1	9.0	9.1	11.2	1.4	3.1	—	—	—	—
70	At Anderson Check Dam ^c	16.35	10/20/81	605	10.5	11.6	11.7	13.9	1.1	3.4	—	—	—	—
71	At Allendale Check Dam ^c	20.35	10/20-21/81	590	13.6	14.6	14.8	18.7	1.3	5.1	—	—	—	—
72	At Mason Check Dam ^c	25.03	10/21/81	570	16.8	18.4	18.5	21.4	1.3	4.6	—	—	—	—
72	At Mason check dam ^c	0.0	10/21/81	570	—	—	0.0	—	—	—	—	—	—	—
73	At Bango check dam ^c	3.14	10/21/81	560	1.9	2.2	2.2	2.9	1.4	1.0	—	—	—	—
74	At U.S. Highway 50 above Lahontan Reservoir ^c	5.95	10/21/81	550	3.4	3.8	3.9	4.9	1.6	1.5	—	—	—	—

^a Continuation of injection at Reno-Sparks Sewage Treatment Plant.^b Injected dye mass.^c Cumulative traveltime, mean velocity, and duration of dye cloud based on uncalibrated field fluorometer readings rather than actual laboratory determinations of dye concentrations.^d Data shown is for samples collected at Fernley Check Dam, which is .21 mile downstream from highway bridge.

TABLE 33.--Summary of traveltime data from reseration studies in middle reach of river, 1979-80

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
23	At Lockwood	0.0	10/18/79	380	0.0	--	1.0	--	--	42.0	--	--	b1.63	b100
24	At upper bridge near Mustang	1.80	10/18/79	380	1.2	3.0	2.7	5.2	1.1	4.0	(c)	(c)	(c)	(c)
27	At Patrick	5.13	10/18/79	360	4.1	6.0	6.0	8.7	1.0	4.6	21	7.8	1.60	98
33	Below Tracy	9.43	10/18/79	360	9.2	11.5	11.8	15.5	.74	6.3	17	5.8	1.61	99
23	At Lockwood	0.0	07/31/80	320	0.0	--	1.0	--	--	42.0	--	--	b2.28	b100
24	At upper bridge near Mustang	1.80	07/31/80	320	1.2	2.0	2.5	4.5	1.2	3.3	37	15.8	2.34	102
25	At McCarran diversion dam	3.65	07/31/80	340	3.0	4.7	4.7	7.5	.84	4.5	32	12.7	2.33	102
26	Below McCarran diversion dam	3.70	07/31/80	330	3.0	4.7	4.7	7.5	--	4.5	31	12.1	2.18	96
27	At Patrick	5.13	07/31/80	330	4.1	6.0	5.9	8.7	1.2	4.6	31	11.6	2.25	98
29	At Hill diversion dam	8.03	07/31/80	330	7.1	9.2	9.6	13.5	.78	6.4	23	8.4	1.96	86
30	Below Hill diversion dam	8.05	07/31/80	320	7.1	9.4	9.7	13.5	--	6.4	23	8.1	1.87	82
34	At Clark	11.45	07/31-8/01/80	330	10.8	13.4	14.0	19.8	.79	9.0	19	6.5	2.00	88
36	At Derby Dam	15.17	08/01/80	330	15.0	18.4	19.0	25.5	.75	10.5	16	5.1	1.88	82
30	Below Hill diversion dam	0.0	08/28/80	360	0.0	--	0.3	--	--	40.5	--	--	b0.57	b100
31	At Tracy diversion dam	1.24	08/28/80	360	1.0	1.5	1.6	2.9	0.95	1.9	20	6.5	.46	81
32	Below Tracy diversion dam	1.27	08/28/80	360	1.0	1.5	1.6	2.9	--	1.9	19	6.5	.46	81

^a Constant dye injection for indicated length of time.^b Injected dye mass.^c Calibration problems with analytical equipment made accurate determination of concentrations and percent recovery impossible.

TABLE 34.--Summary of traveltime data from reaeration studies in lower reach of river, 1979-80

Site No. (table 1)	Site	Distance below injection point (miles)	Date (mo/day/yr)	Stream discharge (ft ³ /s)	Traveltime of dye cloud, in hours since injection				Mean velocity between sites (mi/hr)	Duration of dye cloud at site (hours)	Peak dye concentration (ug/L)	Average dye concentration (ug/L)	Recovered mass of dye (kg)	Dye recovery (percent)
					Lead edge	Peak	Centroid	Trail edge						
44	At old U.S. Highway 40 bridge at Wadsworth	0.0	10/10/79	47	0.0	--	1.0	--	--	a2.0	--	--	b0.60	b100
47	Below Fellnagle diversion dam at Wadsworth	1.14	10/10-11/79	45	4.7	8.2	8.3	15.1	0.16	10.4	30	10	.50	84
53	At river mile 15.8	7.85	10/11/79	59	20.8	24.6	26.6	37.4	.37	16.6	7.8	2.5	.31	51
56	At Dead Ox Wash near Nixon	10.49	10/11-12/79	59	25.7	30.2	32.3	43.7	.46	18.0	6.9	2.2	.31	51
44	At old U.S. Highway 40 bridge at Wadsworth	0.0	07/28/80	64	0.0	--	1.0	--	--	a2.0	--	--	b0.41	b100
46	At Fellnagle diversion dam at Wadsworth	1.12	07/28/80	72	3.6	5.6	5.7	8.5	0.24	4.9	25	6.8	.32	79
47	Below Fellnagle diversion dam at Wadsworth	1.14	07/28/80	60	3.6	5.6	5.7	8.5	--	4.9	24	7.1	.28	68
49	At S Bar S diversion dam	3.83	07/28-29/80	72	8.2	11.2	11.8	19.6	.44	11.4	10	3.5	.27	66
56	At Dead Ox Wash near Nixon	10.49	07/29/80	90	20.2	23.7	24.9	35.2	.49	15.0	5.0	1.6	.23	57

^a Constant dye injection for indicated length of time.^b Injected dye mass.

TABLE 35.--Discharge measurements and associated channel-geometry data at miscellaneous sites in Truckee River basin, 1979-80

Site No. (see fig. 2, table 1)	Site name	River mile	Altitude (feet)	Location of cross section	Date	Discharge (ft ³ /s)	Width (ft)	Area (ft ²)	Mean velocity (ft/s)	Mean depth (ft)
3	Donner Creek at Donner Lake near Truckee	--	5,930	40 ft below bridge at State Hwy 89	5-31-79	91	36	33	2.7	.9
6	Truckee River at old U.S. Hwy 40 bridge below Truckee	96.17	5,629	300 ft above bridge	5-31-79	435	103	230	1.9	2.2
15	Truckee River at Mayberry Drive	65.70	4,611	Downstream side of Mayberry Drive bridge	5-03-79	1,460	109	300	4.9	2.8
				do.	5-16-79	2,610	114	399	6.5	3.5
				250 ft below bridge	6-01-79	508	137	237	2.1	1.7
				Upstream side of bridge	1-14-80	5,030	132	674	7.5	5.1
				do.	6-04-80	1,990	113	384	5.2	3.4
				25 ft below bridge	8-13-80	315	90	122	2.6	1.4
				do.	10-15-80	248	88	110	2.3	1.2
16	Truckee River near Sparks	55.75	4,380	Fixed cross section 0.37 mile below McCarran Blvd. bridge, 0.40 mile below gage	9-16-80	242	68	75	3.2	1.1
17	Truckee River at University farms	54.85	4,375	Fixed cross section 1.27 miles below McCarran Blvd. bridge	9-16-80	227	103	123	1.9	1.2
18	Truckee River above North Truckee drain	54.01	4,372	Fixed cross section 0.35 miles above confluence of drain and river	9-16-80	207	94	170	1.2	1.8
19	North Truckee drain at Kleppe Lane near Sparks	--	4,375	Below Kleppe Lane bridge	5-09-79	27	11	20	1.4	1.7
				do.	6-06-79	48	16	27	1.8	1.7
				do.	8-08-79	51	29	55	.92	1.9
				Upstream side of bridge	1-14-80	217	12	77	2.8	6.4
				Above bridge	6-04-80	54	15	35	1.6	2.3
				Below bridge	8-13-80	33	17	24	1.4	1.4
20	Steamboat Creek at Kimlick Lane near Reno	--	4,375	Downstream side of Kimlick Lane bridge	5-04-79	60	34	68	.88	2.0
				15 ft below bridge	5-16-79	72	31	87	.82	2.8
				5 ft above bridge	6-06-79	54	28	54	1.0	1.9
				Upstream side of bridge	8-08-79	36	16	21	1.7	1.4
				5 ft above bridge	1-04-80	1,160	58	478	2.4	8.2
				40 ft above bridge	6-04-80	140	35	93	1.5	2.7
				do.	8-13-80	66	35	59	1.2	1.7
23	Truckee River at Lockwood	50.05	4,345	Downstream side of Lockwood bridge	5-29-79	816	100	241	3.4	2.4
				50 ft below bridge	6-06-79	539	115	247	2.2	2.1
				200 ft below bridge	6-07-79	489	110	234	2.1	2.1
				do.	8-08-79	263	105	171	1.5	1.6
				do.	10-18-79	384	104	210	1.8	2.0
		50.11	4,346	Fixed cross section 0.06 mile above bridge	9-18-80	346	86	150	2.4	1.7
24	Truckee River at upper bridge near Mustang	48.22	4,316	Fixed cross section 0.03 mile below bridge	9-17-80	363	105	150	2.4	1.4
27	Truckee River at Patrick	44.92	4,281	Upstream side of Patrick bridge	5-29-79	781	90	227	3.4	2.5
				200 ft above bridge	6-06-79	522	150	210	2.5	1.4
				do.	6-07-79	454	151	201	2.3	1.3
				do.	8-08-79	263	130	166	1.6	1.3
				150 ft above bridge	10-18-79	361	150	203	1.8	1.4
		45.04	4,282	Fixed cross section 0.12 mile above bridge	9-17-80	336	125	235	1.5	1.9

TABLE 35.--Discharge measurements and associated channel-geometry data at miscellaneous sites in Truckee River basin, 1979-80--Continued

Site No. (see fig. 2, table 1)	Site name	River mile	Altitude (feet)	Location of cross section	Date	Discharge (ft ³ /s)	Width (ft)	Area (ft ²)	Mean velocity (ft/s)	Mean depth (ft)
28	Truckee River at McCarran Ranch	44.58	4,275	Fixed cross section 0.34 mile below Patrick bridge	9-17-80	346	128	318	1.1	2.5
30	Truckee River below Hill diversion dam	41.54	4,252	Fixed cross section 0.48 mile below dam	9-16-80	353	114	222	1.6	1.9
31	Truckee River at Tracy diversion dam	40.87	4,248	Fixed cross section 0.11 mile above dam	9-16-80	346	154	299	1.2	1.5
34	Truckee River at Clark	38.60 38.65	4,229 4,230	100 ft above Clark road bridge Fixed cross section 0.05 mile above bridge	8-08-79 9-16-80	271 338	122 112	210 200	1.3 1.7	1.7 1.8
35	Truckee River below Clark	37.21	4,213	Fixed cross section 0.69 mile below railroad bridge at Clark	9-16-80	346	82	147	2.4	1.8
37	Truckee River below Derby Dam	33.95	4,178	Fixed cross section 0.54 mile below USGS gage do.	7-02-80 9-17-80	397 58	92 88	230 136	1.7 .43	2.5 1.5
38	Truckee River above Orchard	31.81	4,148	Fixed cross section 0.53 mile above Washburn (Orchard) diversion dam do.	7-02-80 9-18-80	427 70	77 54	116 45	3.7 1.5	1.5 .8
39	Truckee River at Painted Rock bridge	29.97	4,117	Downstream side of bridge 25 ft below bridge Upstream side of bridge	5-23-79 8-20-79 1-16-80	371 47 3,290	78 71 97	170 62 640	2.2 .76 5.1	2.2 .9 6.6
40	Truckee River below Gregory-Monte diversion dam	28.50	4,096	Fixed cross section 0.85 mile below Gregory-Monte diversion dam do.	7-20-80 9-17-80	374 63	85 74	182 83	2.1 .76	2.1 1.1
41	Truckee River below Pierson diversion dam	25.93	4,071	Fixed cross section 0.02 mile below dam do.	7-02-80 9-17-80	356 58	117 100	252 115	1.4 .5	2.2 1.1
42	Truckee River above Proctor diversion dam	24.12	4,053	Fixed cross section 0.22 mile above dam do.	7-02-80 9-17-80	374 55	87 84	186 167	2.0 .33	2.1 2.0
47	Truckee River below Fellnagle diversion dam at Wadsworth	22.53 22.50	4,038 4,037	0.02 mile below dam Fixed cross section below dam do.	10-10-79 7-02-80 9-18-80	45 366 62	28 70 46	23 110 31	1.9 3.3 2.0	.8 1.6 .7
48	Truckee River below Cerosola Ranch near Wadsworth	21.31	4,024	Fixed cross section 1.24 mile below Fellnagle diversion dam do.	7-02-80 9-18-80	375 66	115 84	221 118	1.7 .56	1.9 1.4
49	Truckee River at S Bar S diversion dam	19.84	4,011	50 ft below dam Below dam	10-10-79 7-28-80	52 66	34 38	29 41	1.8 1.6	.8 1.1
50	Truckee River below S Bar S diversion dam	19.54	4,007	Fixed cross section 0.30 mile below dam do.	7-02-80 9-18-80	422 77	84 81	209 128	2.0 .60	2.5 1.6
51	Truckee River at S Bar S Ranch	17.82	3,990	Below pump on left bank	10-10-79	52	60	82	.64	1.4
52	Truckee River below S Bar S Ranch	17.04	3,984	Fixed cross section 0.46 mile below Olinghouse No. 3 diversion 0.29 mile above spawning-habitat study site	7-02-80 9-18-80	419 74	84 48	115 29	3.6 2.5	1.4 .6

TABLE 35.--Discharge measurements and associated channel-geometry data at miscellaneous sites in Truckee River basin, 1979-80--Continued

Site No. (see fig. 2, table 1)	Site name	River mile	Altitude (feet)	Location of cross section	Date	Discharge (ft ³ /s)	Width (ft)	Area (ft ²)	Mean velocity (ft/s)	Mean depth (ft)
54	Truckee River at river mile 15.4	15.43	3,974	Fixed cross section	7-02-80	420	87	146	2.9	1.7
				do.	9-18-80	71	48	54	1.3	1.1
55	Truckee River at river mile 13.8	13.79	3,964	Fixed cross section	7-02-80	404	111	144	2.8	1.3
				do.	9-18-80	69	--	--	--	--
56	Truckee River at Dead Ox Wash near Nixon	13.18	3,960	20 ft below lone cottonwood on right bank	5-24-79	302	72	99	3.0	1.4
				15 ft below lone cottonwood on right bank	6-06-79	108	44	42	2.6	1.0
				Below lone cottonwood on right bank	8-09-79	47	42	33	1.4	.8
				10 ft below lone cottonwood on right bank	8-23-79	43	38	28	1.5	.7
				do.	10-11-79	59	42	34	1.7	.8
				Fixed cross section at lone cottonwood on right bank	7-02-80	604	133	193	3.1	1.4
				do.	9-16-80	113	46	49	2.3	1.1
57	Truckee River at river mile 12.0	11.99	3,954	Fixed cross section	7-02-80	518	80	212	2.4	2.6
				do.	9-16-80	80	72	90	.89	1.2
58	Truckee River at river mile 11.0	11.02	3,948	Fixed cross section	7-02-80	440	96	215	2.0	2.2
				do.	9-16-80	82	75	101	.81	1.3
59	Truckee River at Numana Dam near Nixon	8.16	3,917	Fixed cross section 0.05 mile below dam	7-02-80	435	113	158	2.8	1.4
				do.	9-16-80	76	93	68	1.1	.7
60	Truckee River at Little Nixon bridge	5.73	3,899	Fixed cross section 0.02 mile above bridge site	9-17-80	61	90	154	.40	1.7
61	Truckee River below Little Nixon	5.09	3,894	Fixed cross section 0.62 mile below bridge site at Little Nixon	7-02-80	602	96	201	3.3	2.1
				do.	9-19-80	64	74	51	1.3	.7
62	Truckee River at State Highway 447 at Nixon	3.55	3,881	Fixed cross section 0.33 mile above Highway 447 bridge	7-02-80	578	115	155	3.7	1.3
				do.	9-23-80	73	54	45	1.6	.8
		3.22	3,877	200 ft above bridge	4-24-79	278	85	97	2.9	1.1
				Above bridge	6-06-79	99	50	33	3.0	.7
				30 ft below bridge	6-08-79	52	56	24	2.2	.4
		3.18	3,876	100 ft below bridge	8-09-79	31	51	45	.68	.9
				100 ft above bridge	8-23-79	25	39	44	.58	1.1
64	Truckee River fishway at Marble Bluff Dam	-.07	3,845	Fixed cross section 0.04 mile below bridge	7-02-80	467	87	161	2.9	1.8
				do.	9-17-80	64	62	71	.91	1.1
				20 ft above road bridge over fishway upstream side of bridge	4-13-79	17	16	28	.62	1.8
				do.	5-24-79	29	20	49	.60	2.5
				do.	5-25-79	38	22	57	.69	2.6
				do.	6-06-79	38	21	63	.61	3.0
				20 ft above bridge	6-08-79	40	20	62	.65	3.1
65	Truckee River below Marble Bluff Dam	-.05	3,835	15 ft above bridge	3-08-80	28	19	49	.58	2.6
				300 ft below dam	4-13-79	20	48	61	.33	1.3
				200 ft below dam	5-24-79	211	62	124	1.7	2.0
				do.	5-25-79	166	62	112	1.5	1.8
				do.	6-06-79	73	51	86	.85	1.7
				do.	6-08-79	26	49	70	.38	1.4
				300 ft below dam	8-07-79	33	48	61	.54	1.3
65				200 ft below dam	8-29-79	37	53	71	.52	1.3

TABLE 36.--Discharge measurements and associated channel-geometry data at miscellaneous sites in Truckee Canal, 1979-80

Site No. (see fig. 2, table 1)	Site name	River mile	Altitude (feet)	Location of cross section	Date	Discharge (ft ³ /s)	Width (ft)	Area (ft ²)	Mean velocity (ft/s)	Mean depth (ft)
66	Truckee Canal at Derby Dam	30.41	4,198	Upstream side of bridge at Federal Watermaster's gage, 1.01 mile below canal gates	5-13-80	285	26	131	2.2	4.9
				do.	6-05-80	279	27	136	2.0	5.0
				do.	8-14-80	219	26	126	1.7	4.8
69	Truckee Canal at U.S. Highway 95A near Fernley	18.01	4,187	150 ft below Fernley check dam	5-13-80	166	52	229	.73	4.4
				60 ft below check dam	8-14-80	152	48	158	.96	3.3
70	Truckee Canal at Anderson Check Dam near Fernley	14.96	4,183	600 ft below check dam	5-13-80	144	51	194	.74	3.8
71	Truckee Canal at Allendale Check Dam near Fernley	11.05	4,179	100 ft below check dam	5-14-80	120	48	127	.94	2.6
				50 ft below check dam	6-05-80	97	48	138	.70	2.9
				100 ft below check dam	8-14-80	61	37	54	1.1	1.5
72	Truckee Canal at Mason Check Dam near Hazen	6.38	4,178	75 ft below check dam	5-14-80	112	43	89	1.3	2.1
				50 ft below check dam	6-06-80	100	43	86	1.2	2.0
				Below check dam	8-14-80	56	32	38	1.5	1.2
73	Truckee Canal at Bango Check Dam near Hazen	3.23	4,173	150 ft below check dam. USGS gage installed in October 1981	5-14-80	111	24	32	3.5	1.3
74	Truckee Canal at U.S. Highway 50 above Lahontan Reservoir	.42	4,170	30 ft below U.S. Hwy 50 bridge	8-09-79	43	31	35	1.2	1.1
				100 ft below bridge	10-19-79	230	38	100	2.3	2.6
				do.	11-20-79	347	42	129	2.7	3.1
				do.	3-12-80	31	22	21	1.5	1.0
				do.	4-23-80	46	29	31	1.5	1.1
				Under bridge	5-14-80	116	48	196	.59	4.1
				100 ft below bridge	5-20-80	88	32	43	2.0	1.4
				150 ft below bridge	6-05-80	108	35	54	2.0	1.5
				10 ft below bridge	8-14-80	22	26	18	1.2	.7

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