UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Basic Data Report and Geochemical Summary for Stream Sediments, Heavy-Mineral Concentrates, Rocks, and Waters from the Golden Trout Wilderness, California

By

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CONTENTS

	Page
Introduction	1
Purpose of study	1
Location of the Golden Trout Wilderness	1
Geology	3
Mineral occurrences	7
Sample collection and preparation	8
Sampling plan	8
Stream sediments	9
Heavy-mineral concentrates	9
Rock Samples	9
Water Samples	10
Analytical procedures	10
Methods for stream sediments, heavy-mineral concentrates, and rock	10
Methods for waters	13
Statistical summary of the Golden Trout data	14
Analysis of variance	29
Description of data tables	37
Acknowledgments	38
References	38

ILLUSTRATIONS

Figure	1.	Location map of the Golden Trout Wilderness	2
	2.	Boxplot of the stream-sediment data	15
	3.	Boxplot of the heavy-mineral concentrate data	16
	4.	Boxplot of the rock data	17

CONTENTS (continued)

Page

Figure 5. Frequency distributions for stream-sediment data---------- 19
6. Frequency distributions for heavy-mineral concentrate data---------- 22
7. Frequency distributions for rock data---------- 24
8. Sample design for ANOVA---------- 31
9. Percent of total logarithmic variance at each of the four levels for stream sediments---------- 34
10. Percent of total logarithmic variance at each of the four levels for heavy-mineral concentrates---------- 35

TABLES

Table 1. Lower limits of detection for samples of stream sediment, heavy-mineral concentrates, and rocks---------- 12
2. Lower limits of detection for emission spectrographic analysis of water samples---------- 13
3. Some univariate statistical estimates for semiquantitative emission spectrographic data for stream sediments---------- 26
4. Some univariate statistical estimates for semiquantitative emission spectrographic data for heavy-mineral concentrates---------- 27
5. Some univariate statistical estimates for semiquantitative emission spectrographic data for rock---------- 28
6. Mean element contents for the major rock units in the Golden Trout Wilderness---------- 30
7. Analysis of variance for stream sediments---------- 32

CONTENTS (continued)

Page

Table 8. Analysis of variance for heavy-mineral concentrates---------- 33

9. Data for stream-sediment samples---------- 41

10. Data for heavy-mineral concentrate samples---------- 77

11. Data for rock samples----------104

12. Data for water samples----------119

PLATES

Plate 1. Location of sample sites for the Golden Trout Wilderness

Studies Related to Wilderness

The Wilderness Act (Public Law 88-577, Sept. 3, 1964) and related Acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the Administration and the Congress. This report presents the results of a geochemical survey of the Golden Trout Wilderness, California.

INTRODUCTION

Purpose of Study

Samples of stream sediment, heavy-mineral concentrate, rock, and water were collected as part of the mineral resource appraisal of the Golden Trout Wilderness, Tulare and Inyo Counties, California in the summers of 1979 and 1980. The sediments, heavy-mineral concentrates, and rocks were analyzed by semiquantitative emission spectrographic methods. The water samples were analyzed by emission spectrographic and atomic absorption spectrometry. Plate 1 shows sample site locations. Chemical data for all samples are tabulated in the following sections. In addition, a summary of selected statistical estimates for the elements is presented. No data interpretation is included in this report. The purpose of this report is to make the data available to the public in a timely manner and to provide sufficient information for users of the data to make their own interpretations.

Location of the Golden Trout Wilderness

The Golden Trout Wilderness occupies 1,184 km^2 in the southern Sierra Nevada of California, south of Sequoia National Park (fig. 1). The study area includes at least a part of the Kern Peak, Olancha, Mineral King, Hockett Peak, Camp Nelson, and Monache Mountain 15-min quadrangle maps. It is

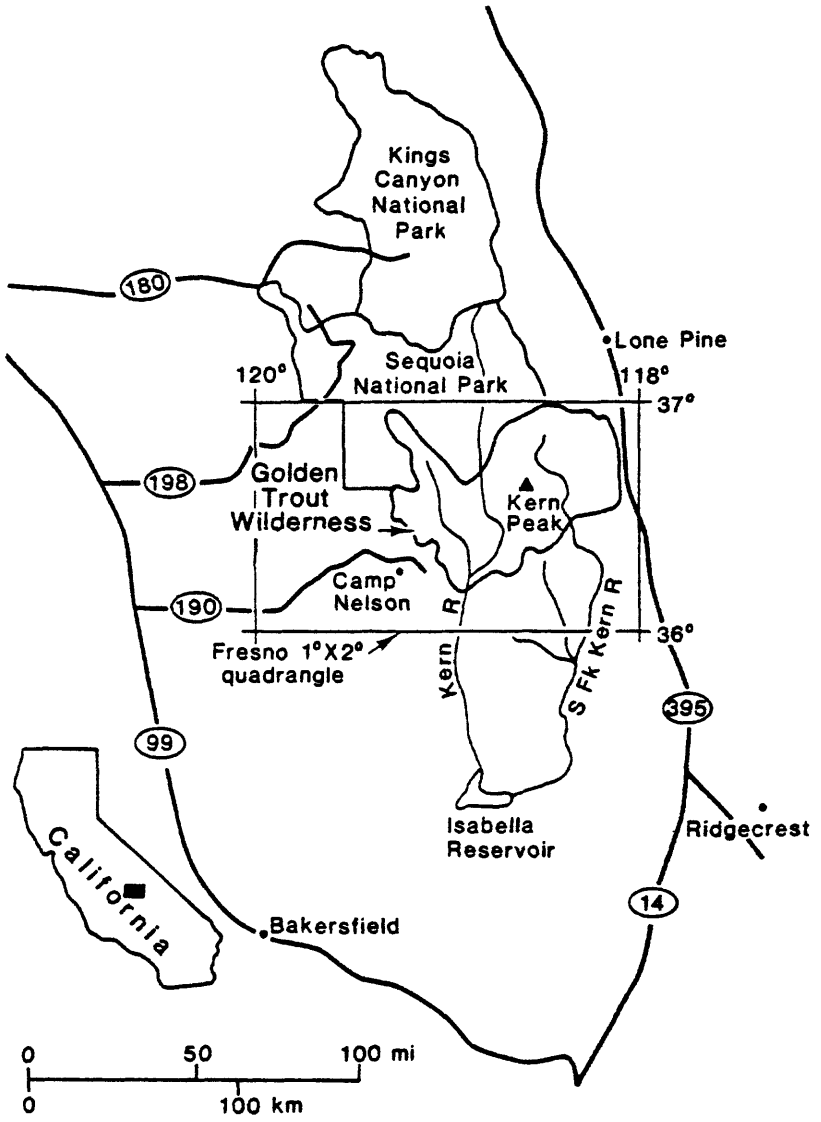

Figure 1. Location of the Golden Trout Wilderness, California.

contained totally within lands belonging to the Inyo and Sequoia National Forests.

Geology

The Golden Trout Wilderness is characterized by extreme relief, ranging from Cirque Peak (3,932 m), Florence Peak (3,789 m), and Olancha Peak (3,695 m), down to 1,493 m at the junction of the Kern and Little Kern Rivers and 1,219 m at the eastern base of the Sierras. One percent of the wilderness area is at elevations above 3,415 m and 65 percent of the wilderness exceeds 2,440 m.

The study area is centered around the Kern River Canyon, the only major north-south drainage in the Sierra Nevada. The Kern River originates at the Kings River-Kern River Divide, 42 km north of the wilderness area. Where the Kern River enters the wilderness area from the north, vertical relief exceeds 518 m and the canyon follows the north-trending Kern Canyon fault. This fault cuts the youngest intrusives in the area (emplaced 80 m.y. B.P.), but does not cut a basalt flow generated 3.5 m.y. B.P. (Burnett, 1976). To the south, the Kern River flows east around Hockett Peak, leaving the fault zone and eventually joining the Little Kern River at the south-central tip of the wilderness area. West of the Little Kern River, the headwaters of the North Fork of the Middle Fork of the Tule River drain the area. Golden Trout Creek, the South Fork of the Kern River, and various small streams flowing down the eastern escarpment drain the region east of the Kern River.

Much of the northern section of the study area is dominated by glacially carved topography. During the El Portal Glacial Stage, the terminus of ice in the Kern Canyon lay at 1,740 m, lat. 36°14', and was probably the southernmost extent of glacial ice in the Sierra Nevada (Matthes, 1965). The headwaters of Pecks Canyon, the Little Kern River down to its junction with Rifle Creek,

Whitney Meadows west to the Boreal Plateau, Upper Cottonwood Creek, Olancha Peak, and the northern side of the Toowa Range also were glaciated during Pleistocene time.

The rocks exposed in the Golden Trout Wilderness are principally Jurassic or Cretaceous plutons of the Sierra Nevada batholith. Metamorphosed country rocks and Cenozoic volcanic rocks cropout in 10 to 15 percent of the area. Christensen (1963) studied the metamorphic rocks in the Mineral King area and Saleeby and others (1978) reported on the metamorphic rocks of the southern Sierra Nevada. Du Bray and Dellinger (1981) mapped the geology of the Golden Trout Wilderness as part of the resource evaluation study. Much of the following description of the geology is summarized from the map.

The oldest rocks in the Golden Trout Wilderness are metavolcanic and metasedimentary country rocks of the Sierra Nevada, occurring as isolated roof pendants and large xenoliths. Part of the Mineral King roof pendant extends from Farewell Gap, at the northern edge of the wilderness, to Mountaineer and Clicks Creeks at the southern border. These contact metamorphic rocks comprise the upper quartzite unit within the southeastern margin of the Calaveras Complex, as used by Schweickert and others (1977). The unit is characterized by quartzite, quartz-mica schist, marble, calc-silicate rocks, and silicic metavolcanics, all partly bedded and partly chaotic. Metamorphism ranges from low-rank green schist to high-rank amphibolite facies. Recognizable parent material consists of rhyolite-dacite tuffs, ash flow and tuff breccias, limestone, mudstone, marl, quartzite, and volcanic clastic flysch (Saleeby and others, 1978).

Four additional exposures of metamorphic rocks of smaller extent are found in the Golden Trout Wilderness. On the western edge of the wilderness, rocks of hornblende-hornfels metasedimentary facies crop out along the North

Fork of the Middle Fork of the Tule River. These fine-grained rocks are composed of quartzite, siliceous hornfels, pelitic schist, and calc-silicate rocks. Similar assemblages are found between Indian Head and Jordan Hot Springs, to the west of Redrock Creek. To the north and southwest of Kern Peak, metamorphosed dacite and andesite tuffs and flows occur. Along the southeastern escarpment of the Sierra Nevada, both metasedimentary and metavolcanic rocks are widespread. For the most part, these are undifferentiated schist, quartzite, marble, and calc-silicate rocks (Saleeby and others, 1978).

Plutonic rocks that underlie the vast majority of the wilderness were intruded roughly continuously during two or three long periods between 80 and 210 m.y. B.P. Du Bray and Dellinger (1981) recognized 7 different alaskite bodies, 6 distinct granites, and 12 granodiorite masses. The western region of the wilderness is dominated by the granodiorite of Pecks Canyon, but also contains a large area underlain by the medium- to coarse-grained alaskite of Maggie Mountain.

In addition to the Mineral King roof pendant, three intrusives underlie the Little Kern River watershed. The northwestern headwaters, centered around Wet Meadows, is occupied by the granodiorite of Quinn Peak. It is a medium-grained intrusive, distinguished by abundant euhedral hornblende grains as much as 1 cm in length. The granite of White Mountain is exposed in much of the central and southern Little Kern River Basin. It is notably light colored, medium to coarse grained, and strongly porphyritic with respect to K-feldspar. The alaskite of Coyote Pass crops out along the Great Western Divide. It is a medium-grained, heterogeneous alaskite with inclusions of mafic plutonic rocks.

The Kern Canyon is bounded on the west by the alaskite of Coyote Pass, granite of Little Kern Lake Creek, the granite of Grasshopper Flat, and the granodiorite of Doe Meadow. The granite of Little Kern Lake Creek is a medium-grained granodiorite with phenocrysts of K-feldspar. The granite of Grasshopper Flat is a fine- to medium-grained porphyritic granodiorite containing euhedral phenocrysts of K-feldspars. The granodiorite of Doe Meadow is a medium-grained, equigranular rock with abundant euhedral hornblende. The region along the northeastern flank of the Kern Canyon is underlain by the fine- to medium-grained granodiorite of Volcano Falls containing abundant euhedral hornblende. The light-colored, coarse-grained alaskite of Hells Hole borders the Kern River to the southwest and contains numerous small bodies of mafic plutonic rocks.

The Paradise pluton is the dominant rock type within the Golden Trout Creek catchment. It is a porphyritic granodiorite, with minor amounts of granite. The medium-grained granite of Window Cliffs occupies a large area within the wilderness south of Golden Trout Creek. It is a porphyritic granite with pinkish-purple K-feldspar phenocrysts. To the west of Kern Peak, the granite is nonporphyritic, finer grained, and contains more mafic minerals. The area south of the Toowa Range contains the medium-grained granodiorite of Redrock Meadow, locally porphyritic. In the vicinity of the Toowa Range, the alaskite of Kern Peak is the dominant intrusive.

The most extensive rock in the Golden Trout Wilderness is the Whitney pluton, covering much of the high country in the east. The granodiorite is coarse grained and porphyritic. K-Ar dates of the rock range from 78.4-84 m.y. B.P. (Everndon and Kistler, 1970). The coarse-grained granite of Carroll Creek crops out in the northeastern part of the wilderness area. The area between Brown Mountain and Olancha Peak is underlain by the fine- to coarse-grained alaskite of Olancha Peak.

Cenozoic volcanic rocks crop out in four areas of the Golden Trout Wilderness. Tertiary cinder cones and the aa Malpais lava flow occupy about 13 km^2 along the lower reaches of Golden Trout Creek. These rocks are olivine basalts and basaltic agglomerates (Webb, 1946), and represent several different stages of eruption. Dalrymple (1963) determined the K-Ar date of the basalt to be 3.5 m.y. B.P. Tertiary olivine basalt also comprises the Flatiron, an area of approximately 10 km^2 above the junction of the Kern and Little Kern Rivers.

Templeton Mountain and the surrounding 5 km^2 area is composed of Tertiary rhyolite with a K-Ar date of 2.4 m.y. B.P. (Bacon and Duffield, 1980). The rhyolite of Long Canyon forms a porphyritic, pumiceous dome, with associated pyroclastic flow lobes located at the head of Long Canyon. Bacon and Duffield (1980) give a K-Ar age of 0.185 ± 0.15 m.y. before present for the rhyolite.

Other Quaternary units in the Golden Trout Wilderness include alluvium, colluvium, glacial moraines, gravel, landslide deposits, and unglaciated grus weathered in place.

Mineral Occurrences

The potential for gold, silver, and base metal sulfide deposits in the southern Sierra Nevada was first recognized through the discovery in 1873 of the Mineral King District, at the northern boundry of the wilderness. On August 26, 1873, J. A. Crabtree, A. Luke, and S. Belden of Porterville discovered argentiferous galena and sphalerite in limestone near a granite contact, approximately 4 km southwest of Mineral King and 6 km west of Farewell Gap. Other findings of sulfides of copper, lead, and zinc, associated with arsenopyrite and argentite, led to a silver rush into the area during 1879-1880. The small size of the deposits and the complex geological relationships prevented much production from the deposits.

There are 38 recognizable mineral occurrences and mining claims in the Golden Trout Wilderness Area, containing silver, gold, Fe-Mn oxides, and base metal sulfides (Nicholus Zilka, U.S. Bureau of Mines, oral commun. 1980). Three occurrences also contain tungsten minerals. The majority of the mining claims are located within the Little Kern River watershed; along the South Fork of the Kern River, to the east of Templeton Mountain; along the eastern escarpment of the Sierra Nevada, between Ash and Cartago Creeks; and southwest of Maggie Mountain.

The mines and prospects in the Little Kern River drainage system are associated with the contact between the metamorphic rocks of the Mineral King roof pendant and the intrusive rocks of the Sierra Nevada batholith. One of these mines, the Pine Tree Mine, is presently producing small amounts of tungsten.

SAMPLE COLLECTION AND PREPARATION

Sampling Plan

All sites were chosen on first- or second-order drainages as defined by 1:62,500 topographic maps. All sites on second-order drainages were chosen at least 100 m below any first-order junctions. Stream-sediment sampling sites were selected at a density of one site per cell with the cell having an area of approximately 2.6 km^2. Some cells do not contain a sample site because of various factors including lack of small-order stream drainage or extreme relief and inaccessibility. Five percent of the cells were randomly chosen for duplicate sampling. The duplicate samples were collected 100 m downstream from the original site to provide an estimate of intrastream compositional variation. The duplicate samples were split into 2 samples to provide an estimate of analytical variations. Nine of the cells chosen for intrastream

variation study contain an additional two samples collected on other first-order streams to provide an estimate of intracell variation (stream-to-stream within the same cell).

Stream Sediments

At least 5 grab samples were collected at each site along a 10 m streach of the active stream channel using a polyethylene or aluminum scoop. The grab samples were composited into a single sample and then were air dried. The composited sample was sieved using a stainless steel 80-mesh (180 μm opening) screen. The material passing through the 80-mesh screen was pulverized for analysis. The discussion that follows uses "stream sediment" as synonymous with the minus-80-mesh fraction.

Heavy-Mineral Concentrates

A heavy-mineral concentrate sample was collected at most sites using a standard gold pan. Commonly, 3 to 4 kg of composited sediment were necessary to yield the desired 30 - 60 gm of concentrate. At the laboratory, the sample was air dried, and the highly magnetic material was removed by a magnet. Any light-weight material remaining in the concentrate was then separated by allowing the heavier fraction to settle through bromoform (specific gravity 2.82). The resulting heavy-mineral fraction was then separated into a nonmagnetic and magnetic fraction using a Frantz Isodynamic Separator at a setting of 0.6 ampere, with 15° forward and 15° side settings. The nonmagnetic fraction was pulverized in an agate mortar before analysis.

Rock Samples

Most of the rock samples were collected by Edward du Bray and David Dellinger of the U.S. Geological Survey. The rock samples were collected from outcrops of all the major rock units mapped by Du Bray and Dellinger (1981).

When necessary, each sample was hand cobbled to remove any obvious weathered material. All samples were crushed and pulverized before analysis.

Water Samples

Eighteen stream and spring-water samples were collected in the Little Kern watershed, in an area where iron-oxide precipitation was observed. The area sampled lies within a zone of tungsten and base metal occurrences associated with the Mineral King roof pendant. At each of the 18 sites, pH and water temperature were measured, and two 250-ml samples were collected. One water sample was filtered through an 0.45 μm filter and acidified to a pH <1.0 using high purity nitric acid. The acidified sample was analyzed at the laboratory for selected trace metals whereas the untreated unfiltered sample was analyzed for selected anions, electrical conductivity, and total alkalinity.

ANALYTICAL PROCEDURES

Methods for Stream Sediments, Heavy-Mineral Concentrates, and Rock

Each rock, stream sediment, and nonmagnetic heavy-mineral concentrate sample was analyzed semiquantitatively for 31 elements using an optical emission spectrograph, according to the method outlined by Grimes and Marranzino (1968). The semiquantitative spectrographic values are reported as the approximate geometric midpoints: 1.0, 0.7, 0.5, 0.3, 0.2, 0.15 (or appropriate powers of ten) of ranges whose respective boundaries are: 1.2, 0.83, 0.56, 0.38, 0.22, 0.18, 0.12 (or appropriate multiples).

The precision of the results of the semiquantitative spectrographic analyses varies from rock type to rock type and from element to element within the various sample media. In general, the precision of the results of the method is plus or minus one reporting value of the actual value given

approximately 83 percent of the time or with two reported intervals 96 percent of the time (Motooka and Grimes, 1976). It has been the experience of the laboratory that analyses performed by one analyst over a relative short period of time exhibit a degree of precision greater than that quoted. Reference samples were used to insure the quality of the analyses.

The lower limits of determination for the 31 elements determined in rocks, sediments, and concentrates are given in table 1.

Table 1.--Lower limits of detection for samples of rock, stream sediment, and heavy-mineral concentrates

[Limits calculated either in percent or in parts per million (ppm)]

Element	Percent	ppm	Element	Percent	ppm
Calcium	0.05	--	Magnesium	0.02	--
Iron	0.05	--	Titanium	0.002	--
Antimony	--	100	Molybdenum	--	5
Arsenic	--	200	Nickel	--	5
Barium	--	20	Niobium	--	20
Beryllium	--	1	Scandium	--	5
Bismuth	--	10	Silver	--	0.5
Boron	--	10	Strontium	--	100
Cadmium	--	20	Thorium	--	100
Chromium	--	10	Tin	--	10
Cobalt	--	5	Tungsten	--	50
Copper	--	5	Vanadium	--	10
Gold	--	10	Yttrium	--	10
Lanthanum	--	20	Zinc	--	200
Lead	--	10	Zirconium	--	10
Manganese	--	10			

In addition to semiquantitative emission spectrographic analyses, selected samples of stream sediments and rocks from the most major rock units in the wilderness were analyzed for uranium by neutron activation analysis-delayed neutron counting.

Methods for Waters Samples

The acidified water samples were analyzed for 32 elements using an inductively coupled plasma emission spectrograph. The elements detected by this method for the waters from Golden Trout include Fe, Mg, Ca, Ba, Zn, and Sr. The lower limit of detection for the 32 elements are given in table 2.

Table 2.--Lower limits of detection in parts per billion (ppb) for emission spectrographic analysis of water samples

Element	ppb	Element	ppb
Aluminum	6	Lanthanum	50
Antimony	2	Lead	200
Arsenic	500	Magnesium	80
Barium	1	Manganese	2
Bismuth	600	Molybdenum	60
Beryllium	1	Nickel	40
Boron	8	Niobium	10
Cadmium	10	Phopphorus	300
Calcium	40	Silver	20
Ceriu	100	Strontium	1
Chromium	20	Titanium	6
Cobalt	200	Tin	400
Copper	10	Tungsten	100
Germanium	200	Vanadium	10
Gold	70	Yttrium	4
Iron	20	Zinc	10

Acidified water samples were also analyzed for Cu and As by flameless atomic absorption spectrophotometry using a Perkin Elkin Elmer 360 and a Perkin Elmer 603, respectively. Unacidified water samples were analyzed for three anions $SO_4^{=}$, Cl^-, and F^-, using a Dionex System 14 ion chromatograph. Alkalinity was determined for these samples using the electrometric titration method (Brown and others, 1970) to obtain pH values and the Gran's Plot Method (Stumm and Morgan, 1970) to determine the actual alkalinities. Conductivity was measured using a Barnstead Conductivity Bridge.

STATISTICAL SUMMARY OF THE GOLDEN TROUT DATA

In this report, no data interpretations is presented. Therefore, to assist users of the data we have included several univariate statistical estimates and graphical displays of the data.

To conveniently show the range of observed concentrations for the elements reported, we used the "boxplot" (Tukey, 1977). The boxplots for the stream sediment, heavy-mineral concentrate, and rock data are shown in figures 2, 3, and 4, respectively. For each boxplot, the ordinates of the horizontal bars denote the maximum, the upper 5 percent, the upper quartile, the median, the lower quartile, and the minimum value. For a number of elements, the detection limit for the emission spectrographic analysis was above the concentration of many samples; therefore, some of the boxplots are abbreviated. Reported qualified concentrations for a particular element are indicated by an arrow at the top of the boxplot to show greater than (G), or at the bottom to show less than (L) or not detected (N) qualified data. In addition, because of the reporting intervals for semiquantitative emission spectrographic analysis, it may not be possible to distinguish between the median value and either the upper or lower quartile concentrations for certain elements. For these boxplots, one of the quartile boxes is omitted. For

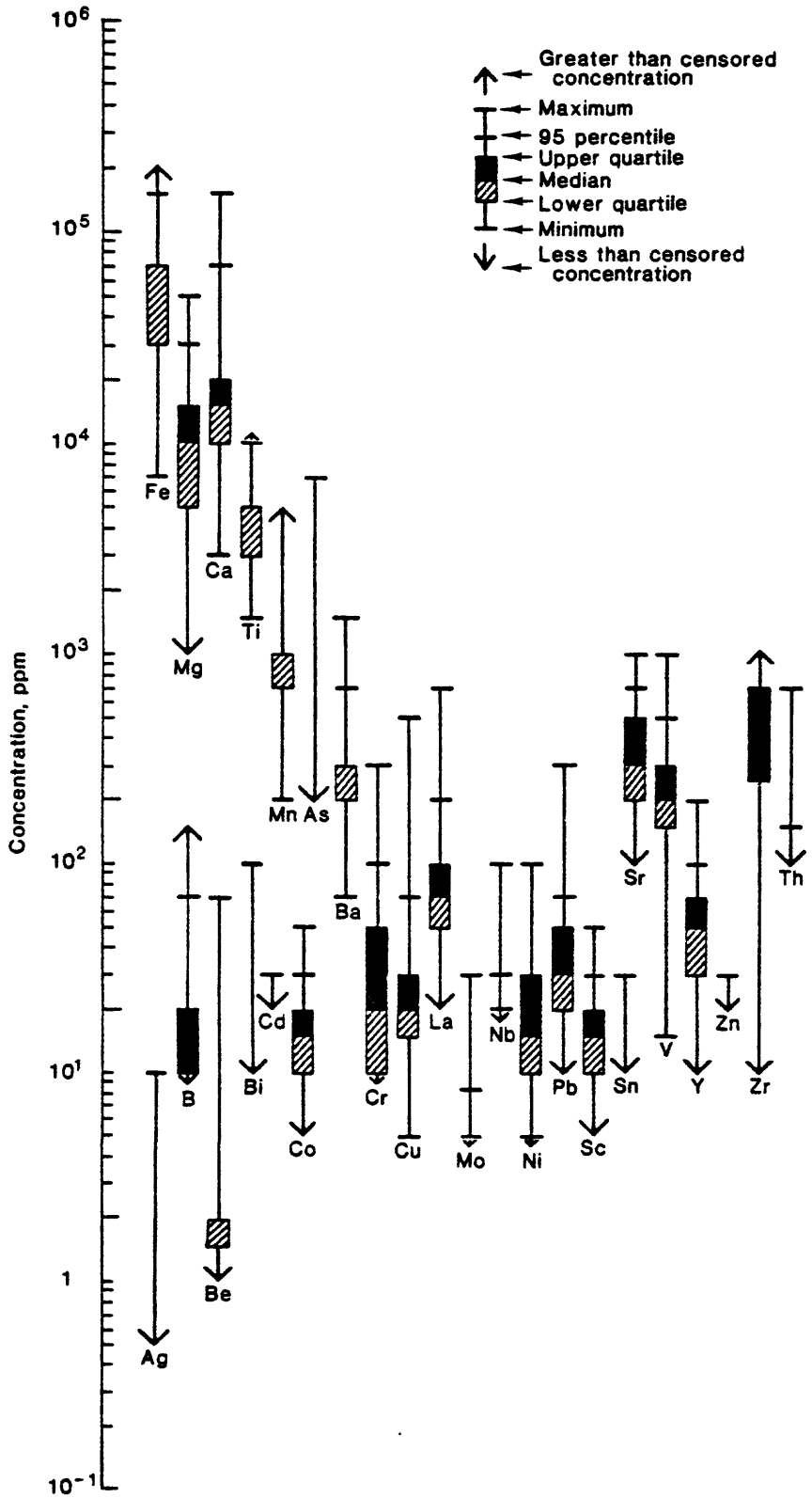

Figure 2. Boxplot of the stream-sediment data.

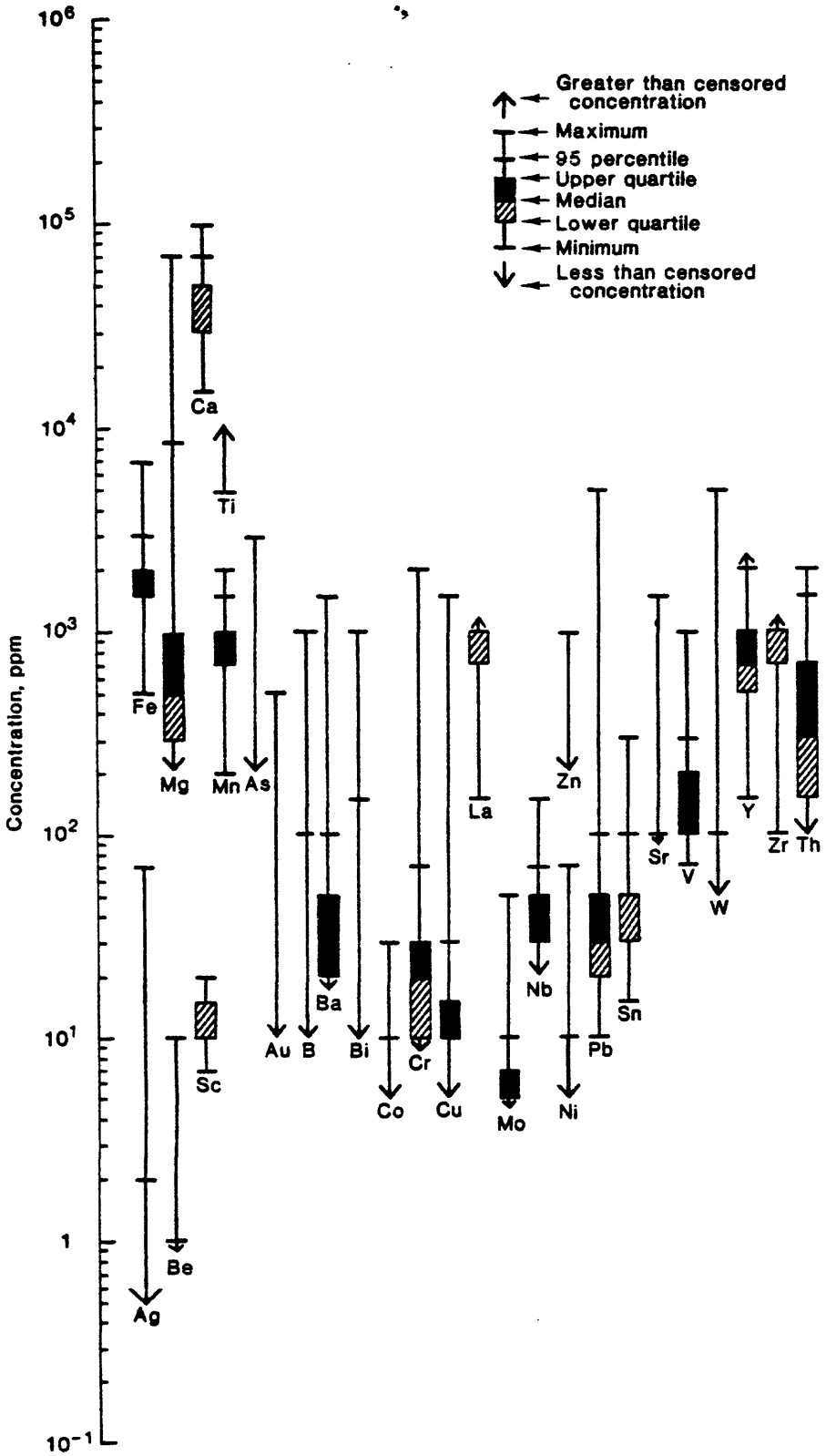

Figure 3. Boxplot of the heavy-mineral concentrate data.

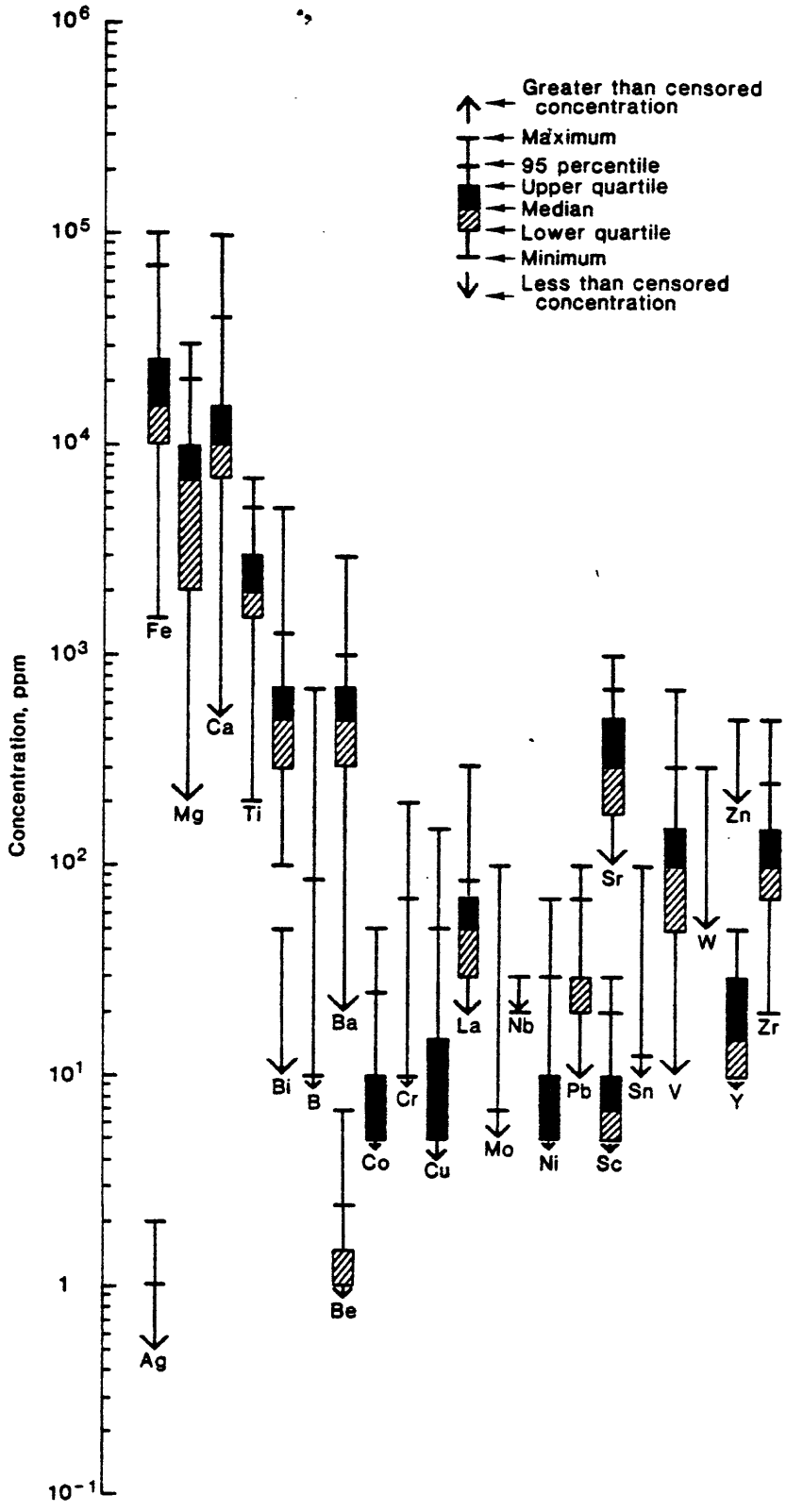

Figure 4. Boxplot of the rock data.

example, see the Fe boxplot for the sediment data (fig. 2) where it was not possible to distinguish between the median and the upper quartile value. For Fe, the 0.7 percent reporting interval contains both the 50th percentile and 75th percentile of all observations.

Using the spectrographic intervals as class width, histograms of most of the elements are shown in figures 5 through 7. Elements which contain highly censored data are not plotted. The histograms conveniently show the range of the log data, the modes for each, and the general form of the density distribution. The number of either right or left censored values has been set equal to "n."

Tables 3, 4, and 5 present some univariate statistics which help describe the distribution of the data. Many of the elements analyzed were singly censored, either above or below the spectrographic sensitivity levels. Detection ratios, the amount of uncensored values divided by the total amount of samples analyzed for a given element, describe the degree to which the data were censored (Miesch, 1976). Generally, univariate statistics were computed for those elements with detection ratios greater than 0.50.

Mean logs, log variances, and log standard deviations were obtained through the use of the USGS STATPAC program for Fisher K-Statistics (VanTrump, G., Jr., unpub. computer program, 1978). This program allowed the mean log and log variance to be calculated using Cohen's (1959) method for the maximum-likelihood estimate for normal and singly censored distributions. Geometric mean and geometric deviation were taken as the antilogs of the mean log and log standard deviation. An option in the STATPAC program enabled calculation of arithmetic means using Sichel's (1952) maximum-likelihood method for lognormal populations. The application of both Cohen's and Sichel's techniques to geochemical distributions is discussed by Miesch

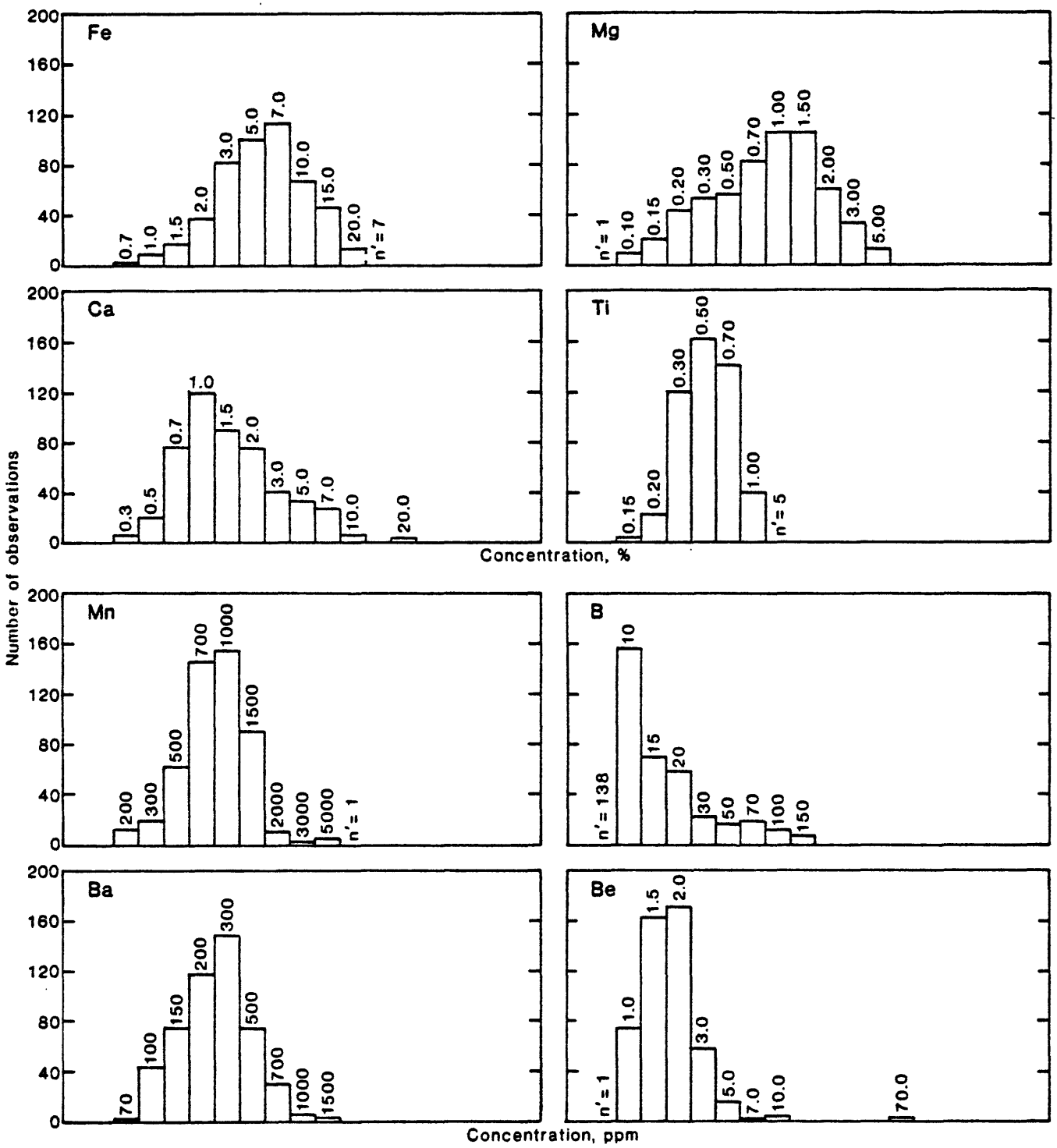

Figure 5. Frequency distributions for stream-sediment data.

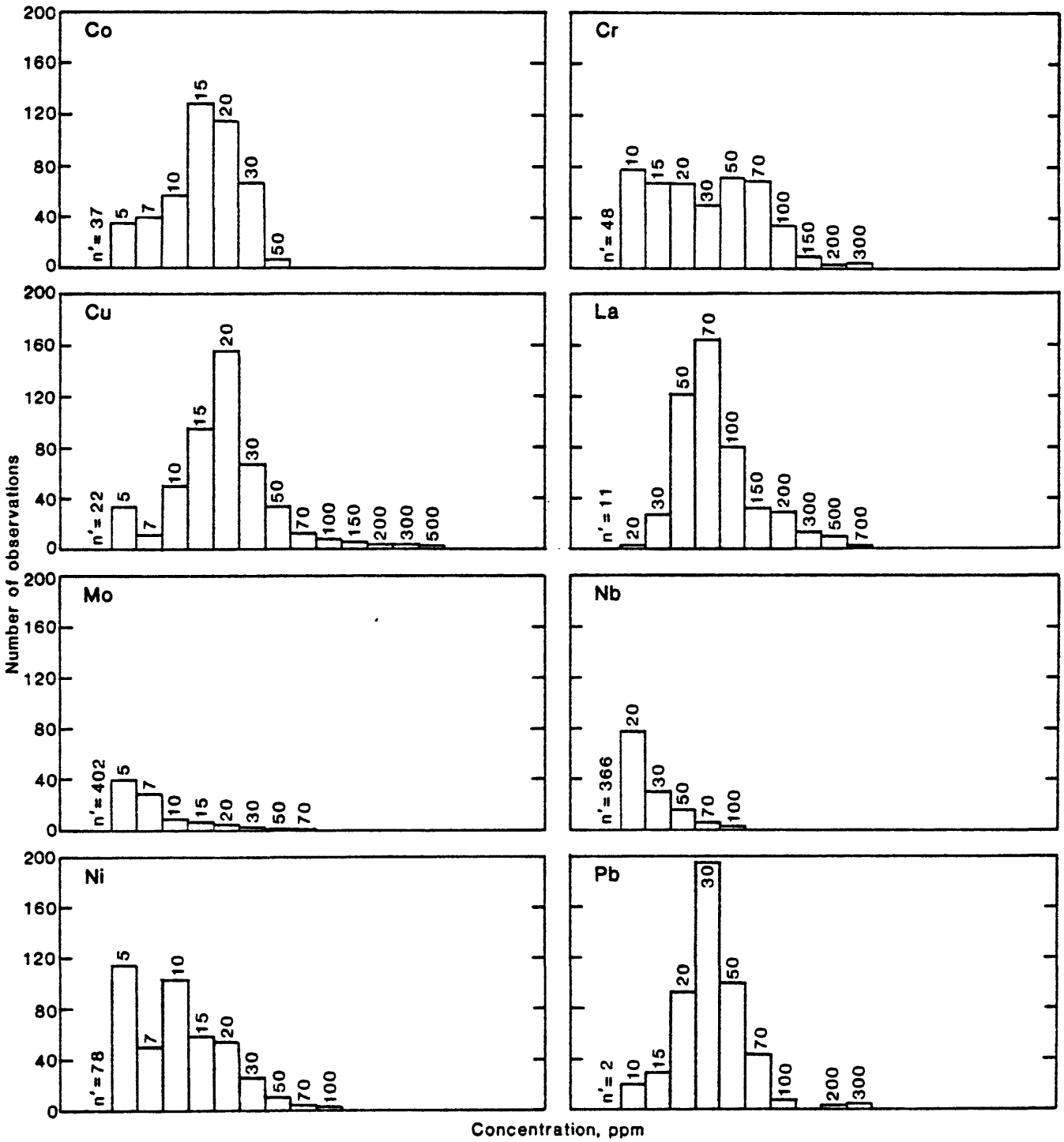

Figure 5. Continued

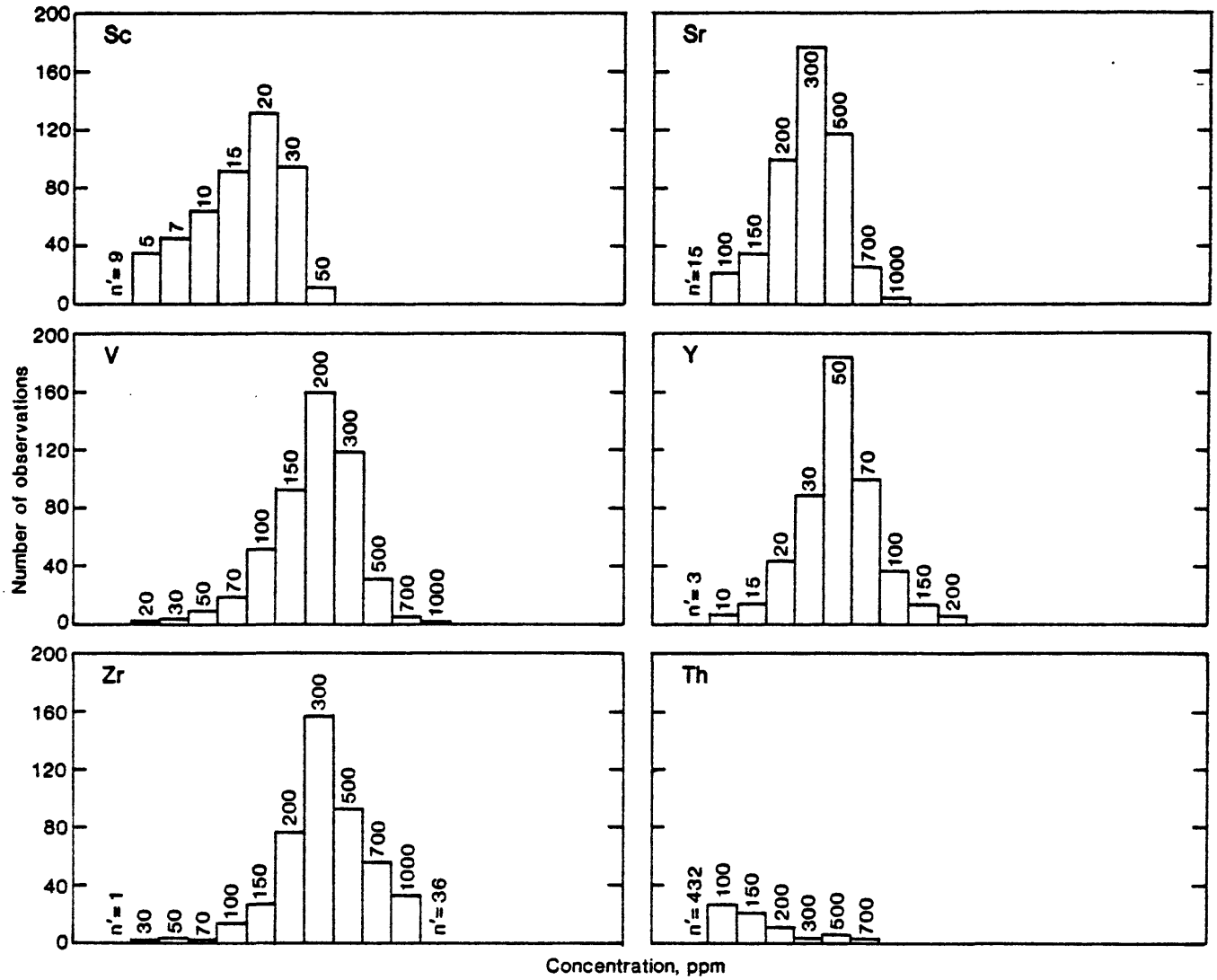

Figure 5. Continued

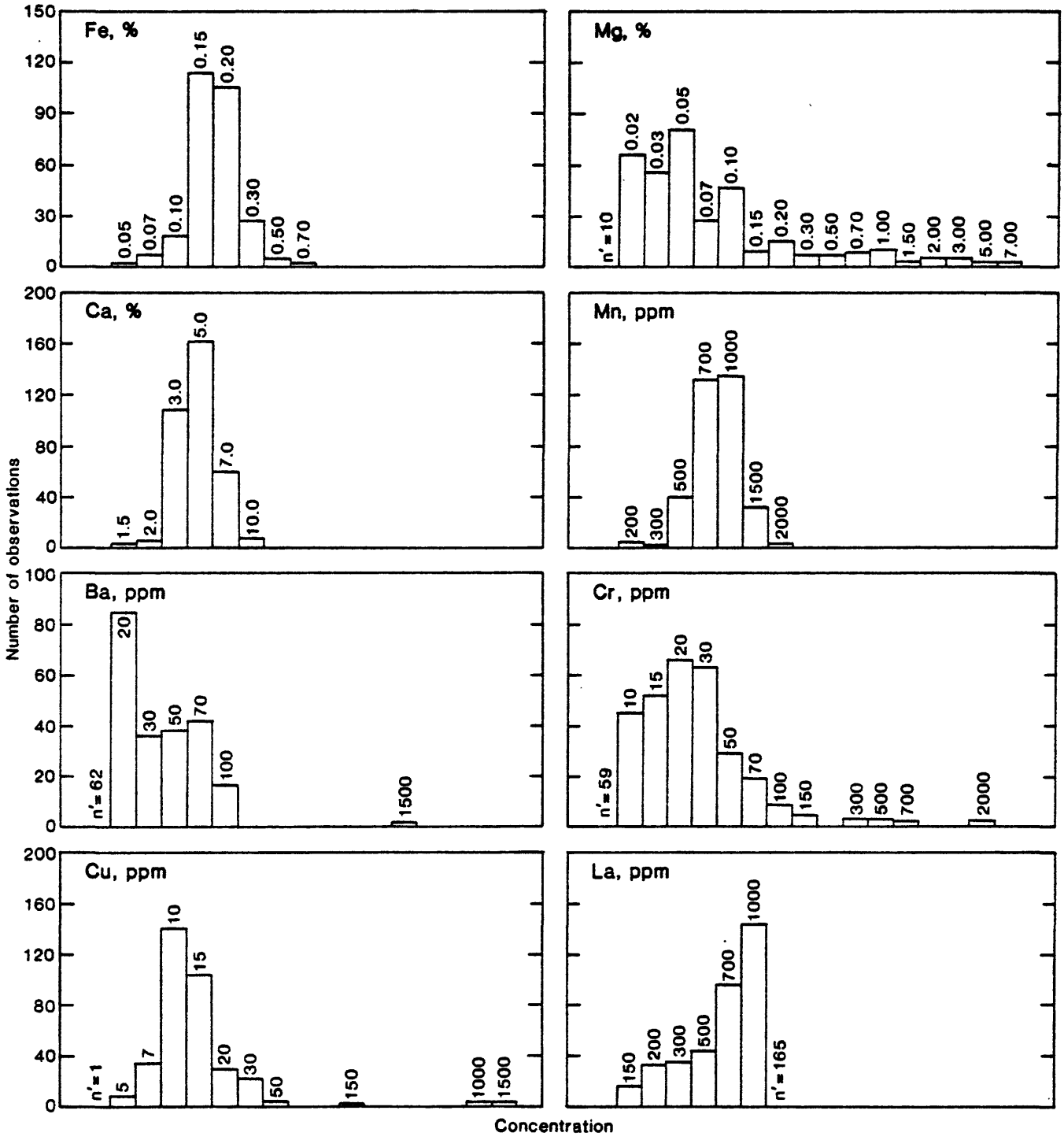

Figure 6. Frequency distributions for heavy-mineral concentration data.

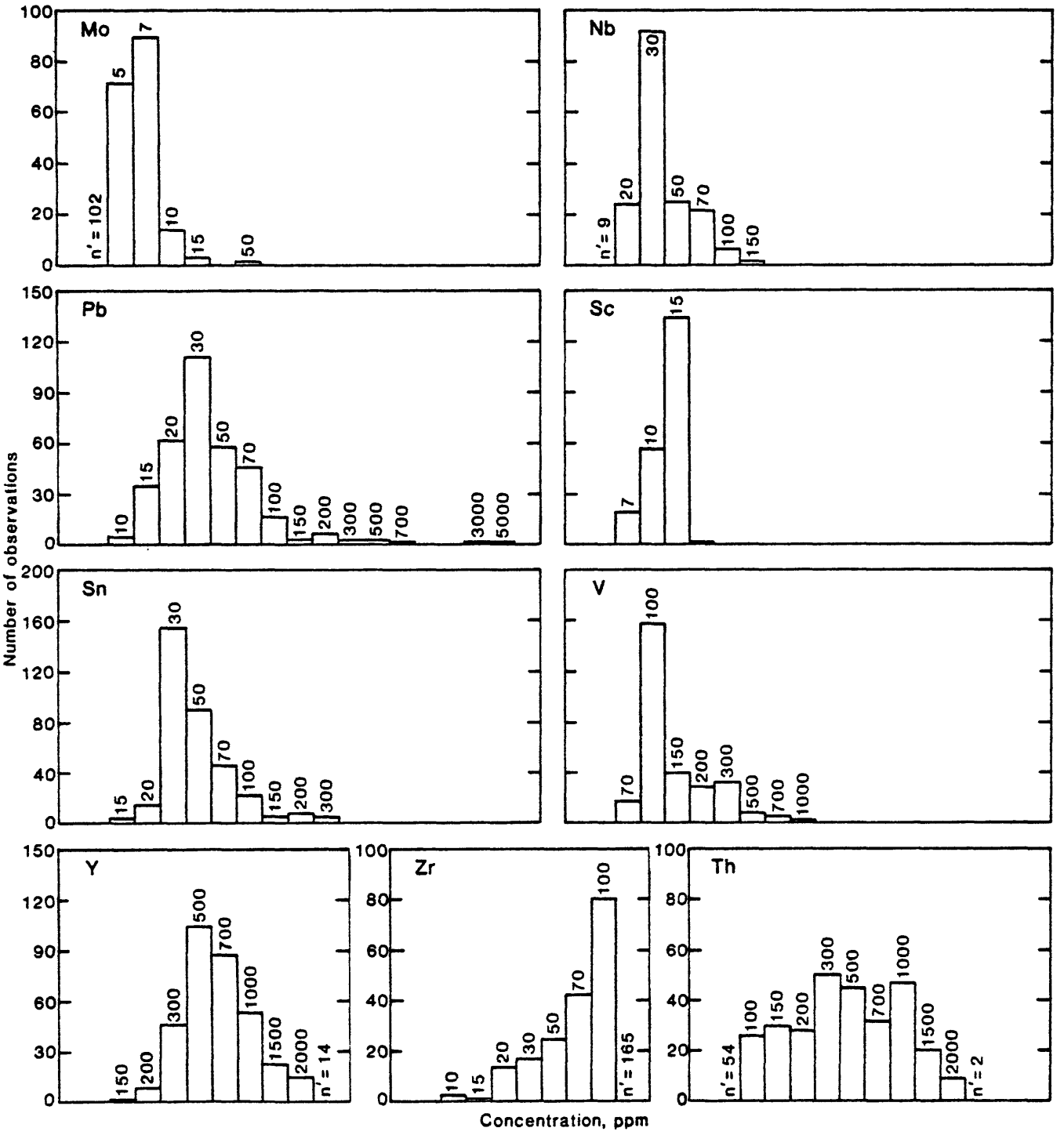

Figure 6. Continued.

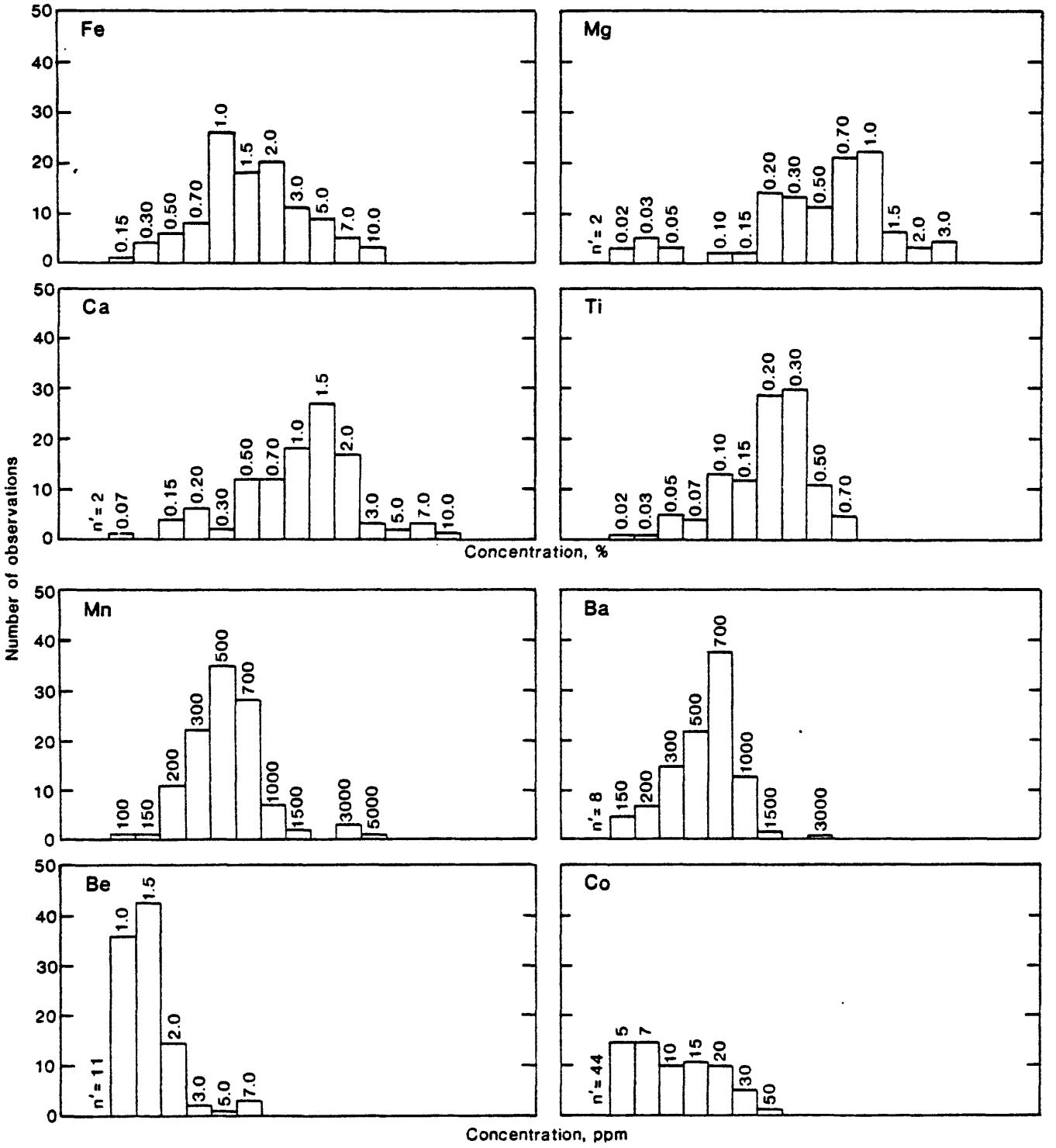

Figure 7. Frequency distributions for rock data.

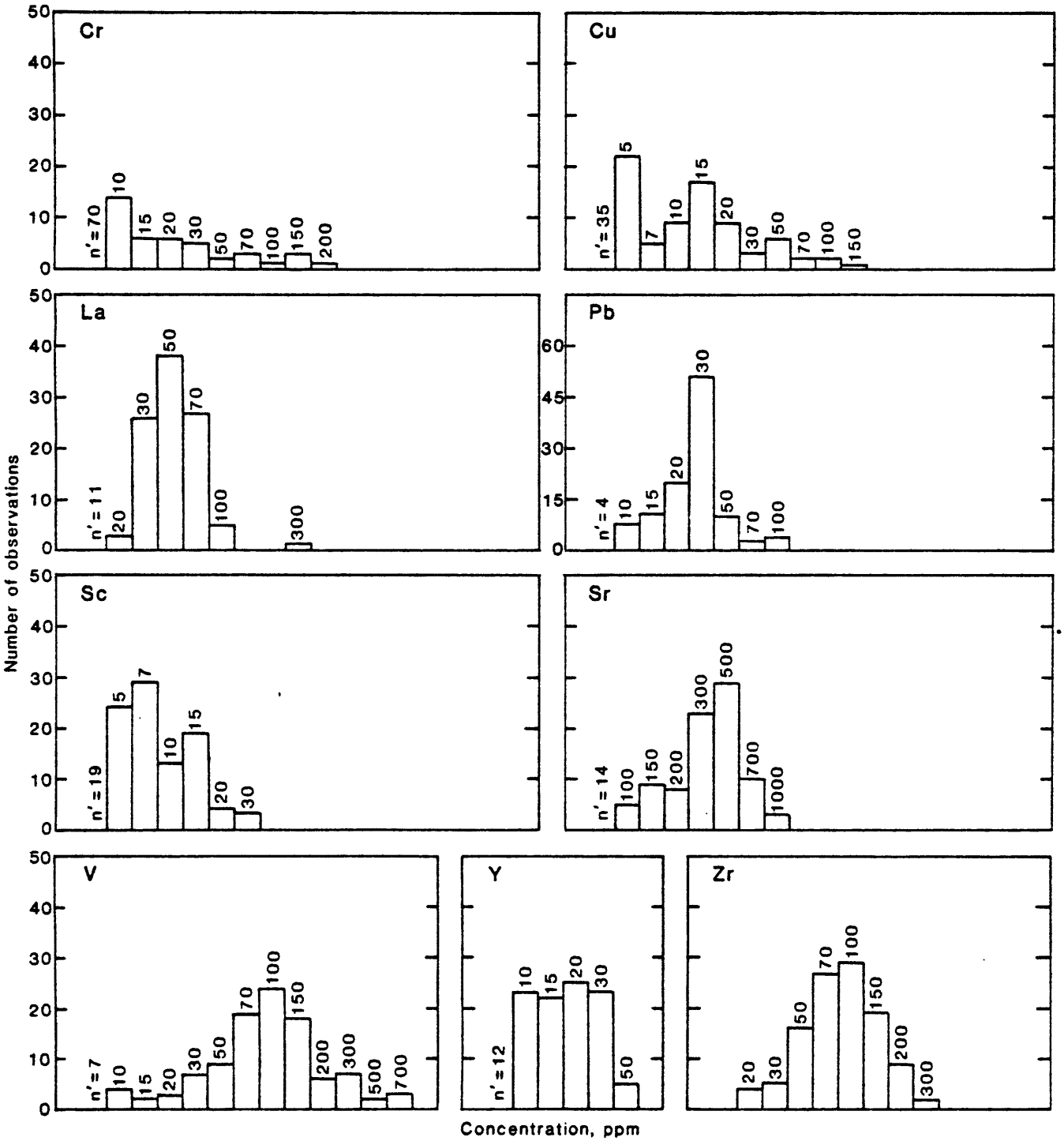

Figure 7. Continued

Table 3.--Some univariate statistical estimates for semiquantitative emission spectrographic data for 495 stream sediments

[Geometric mean, geometric deviation, expected range, and arithmetic mean values for Fe, Mg, Ca, and Ti are in terms of percent. Data for other elements are expressed in parts per million. Leaders (--) denote no data]

Element	Detection ratio	Mean log	Geometric mean	Log variance	Log standard deviation	Geometric deviation	Expected range	Arithmetic mean
Fe	0.99	0.7439	5.5	0.0962	0.3101	2.0	1.3-23	7.2
Mg	0.99	- .0826	.8	.1263	.3554	2.3	.2-4.3	1.2
Ca	1.00	.1838	1.5	.1049	.3239	2.1	.3-6.8	2.0
Ti	.99	- .3097	.5	.0473	.2175	1.7	.2-1.3	.6
Mn	.99	2.9309	853	.0468	.2163	1.6	315-2310	966
Ag	.02	--	--	--	--	--	--	--
As	.01	--	--	--	--	--	--	--
Au	.00	--	--	--	--	--	--	--
B	.72	1.1039	13	.1257	.3545	2.3	2.5-65	18
Ba	1.00	2.4087	256	.0575	.2398	1.7	85-773	298
Be	.99	.2575	1.8	.0355	.1884	1.5	.8-4.3	2.0
Bi	.01	--	--	--	--	--	--	--
Cd	.01	--	--	--	--	--	--	--
Co	.93	1.1289	13	.0749	.2737	1.9	3.8-47.	16
Cr	.90	1.4060	25	.1540	.3924	2.5	4.2-155	38
Cu	.96	1.2556	18	.1127	.3358	2.2	3.8-85	24
La	.98	1.8810	76	.0721	.2686	1.9	22-262	92
Mo	.19	--	--	--	--	--	--	--
Nb	.26	--	--	--	--	--	--	--
Ni	.84	.8224	6.6	.2778	.5270	3.4	.6-75	14
Pb	.99	1.4952	31	.0505	.2248	1.7	11-88	36
Sb	.01	--	--	--	--	--	--	--
Sc	.98	1.1800	15	.0669	.2587	1.8	4.6-50	181
Sn	.03	--	--	--	--	--	--	--
Sr	.97	2.4583	287	.0527	.2295	1.7	100-827	330
V	1.00	2.2844	192	.0544	.2332	1.7	66-563	222
W	.01	--	--	--	--	--	--	--
Y	.99	1.6687	47	.0614	.2479	1.8	15-146	55
Zn	.02	--	--	--	--	--	--	--
Zr	.93	2.5781	379	.0879	.2966	2.0	97-1483	478
Th	.13	--	--	--	--	--	--	--

Table 4.--Some univariate statistical estimates for semiquantitative emission spectrographic data for 348 pan concentrates

[Geometric mean, geometric deviation, expected range, and arithmetic mean values for Fe, Mg, Ca, Ti are in terms of percent. Data for other elements are expressed in parts per million. Leaders (--) denote no data]

Element	Detection ratio	Mean log	Geometric mean	Log variance	Log standard deviation	Geometric deviation	Expected range	Arithmetic mean
Fe	1.00	-0.6633	0.2	0.0213	0.1461	1.4	0.1 -0.4	--
Mg	.97	-1.2080	.06	.2595	.5094	3.2	0-0.6	.1
Ca	1.00	.6522	4.5	.0234	.1530	1.4	2.2 -9.1	4.8
Ti	.02	--	--	--	--	--	--	--
Mn	1.00	2.9131	819	.0227	.1505	1.4	409-1637	869
Ag	.17	--	--	--	--	--	--	--
As	.03	--	--	--	--	--	--	--
Au	.01	--	--	--	--	--	--	--
B	.20	--	--	--	--	--	--	--
Ba	.78	1.4624	29	.1172	.3424	2.2	6.0 -140	--
Be	.56	--	--	--	--	--	--	--
Bi	.18	--	--	--	--	--	--	--
Cd	.00	--	--	--	--	--	--	--
Co	.17	--	--	--	--	--	--	--
Cr	.83	1.2939	20	.1575	.3968	2.5	3.2 -122	30
Cu	.99	1.1069	13	.0584	.2417	1.7	4.2 -39	15
La	.53	3.0163	1038	.1190	.3449	2.2	212-5084	1423
Mo	.64	.6721	4.7	.0417	.2041	1.6	1.8 -12	--
Nb	.97	1.5466	35	.0389	.1973	1.6	14-87	39
Ni	.12	--	--	--	--	--	--	--
Pb	1.00	1.5707	37	.1095	.3309	2.1	8.1 -171	50
Sb	.01	--	--	--	--	--	--	--
Sc	1.00	1.0993	13	.0122	.1104	1.3	7.6 -21	13
Sn	1.00	1.6476	44	.0572	.2392	1.7	15-134	52
Sr	.06	--	--	--	--	--	--	--
V	1.00	2.1335	136	.0531	.2304	1.7	47-393	--
W	.12	--	--	--	--	--	--	--
Y	.96	2.8221	664	.0629	.2508	1.8	209-2107	784
Zn	.01	--	--	--	--	--	--	--
Zr	.53	3.0205	1048	.0998	.3158	2.1	245-4490	1365
Th	.84	2.4937	312	.2253	.4746	3.0	35-2773	566

Table 5.--Some univariate statistical estimates for semiquantitative emission spectrographic data for 111 rock samples

[Geometric mean, geometric deviation, expected range, and arithmetic mean values for Fe, Mg, Ca, and Ti are in terms of percent. Data for other elements are expressed in parts per million. Leaders (--) denote no data]

Element	Detection ratio	Mean log	Geometric mean	Log variance	Log standard deviation	Geometric deviation	Expected range	Arithmetic mean
Fe	1.00	0.1981	1.6	0.1272	0.3567	2.3	0.3 -8.2	2.2
Mg	.98	- .3900	.4	.2921	.5404	3.5	.03-4.9	.9
Ca	.98	- .0158	1.0	.1825	.4272	2.7	.1 -6.9	1.6
Ti	1.00	- .0962	.2	.0894	.2991	2.0	.05-0.8	.3
Mn	1.00	2.6990	500	.0736	.2712	1.9	143-1744	608
Ag	.07	--	--	--	--	--	--	--
As	.00	--	--	--	--	--	--	--
Au	.00	--	--	--	--	--	--	--
B	.29	--	--	--	--	--	--	--
Ba	.95	2.6134	411	.2129	.4614	2.9	49-3437	720
Be	.90	.1356	1.4	.0360	.1898	1.5	.6 -3.3	1.5
Bi	.04	--	--	--	--	--	--	--
Cd	.00	--	--	--	--	--	--	--
Co	.60	.7826	6.1	.1443	.3798	2.4	1.1 -35.	8.9
Cr	.37	--	--	--	--	--	--	--
Cu	.69	.8786	7.6	.2437	.4936	3.1	.8 -73	14
La	.90	1.6428	44	.0532	.2308	1.7	15-127	51
Mo	.10	--	--	--	--	--	--	--
Nb	.07	--	--	--	--	--	--	--
Ni	.59	.7586	5.7	.1884	.4340	2.7	.8 -42	9.4
Pb	.96	1.4092	26	.0569	.2386	1.7	8.6 -77	30
Sb	.00	--	--	--	--	--	--	--
Sc	.83	.8718	7.4	.0613	.2476	1.8	2.4 -23	8.8
Sn	.09	--	--	--	--	--	--	--
Sr	.87	2.4770	300	.1181	.3437	2.2	62-1460	410
V	.94	1.8822	76	.2197	.4688	2.9	8.8 -660	136
W	.05	--	--	--	--	--	--	--
Y	.89	1.2246	17	.0503	.2242	1.7	6.0 -47	19
Zn	.05	--	--	--	--	--	--	--
Zr	1.00	1.9333	86	.0617	.2484	1.8	27-269	101
Th	.00	--	--	--	--	--	--	--

(1967). For lognormal data, 95 percent of all values fall within an expected range from: $\frac{\text{Geometric Mean}}{(\text{Geometric Deviation})^2}$ to Geometric Mean X $(\text{Geometric Deviation})^2$.

Table 6 summarizes the data for samples of the major rock units in the Golden Trout Wilderness. A complete listing of the data for each sample is given in table 11.

ANALYSIS OF VARIANCE (ANOVA)

To evaluate the data in terms of variability at different scales, an unbalanced, four-level, nested analysis of variance (Anova) design was constructed (fig. 8). The total variability was partitioned among the four levels using the STATPAC System Program D0038--Analysis of Variance (VanTrump, G., Jr., unpub. computer program, 1978). The program follows the technique of Anderson and Bancroft (1952) for computation of variance components. Estimates of variance components for 20 elements in stream-sediment samples and for 21 elements in heavy-mineral concentrate samples are given in tables 7 and 8 and compared graphically in figures 9 and 10. All elements in the heavy-mineral concentrates and all elements, excluding Ti in the stream sediments, have significant variability between cells as defined by the use of the F-test at the 95 percent confidence level (Snedcor, 1956).

These results are useful for more detailed evaluations of the data in the following ways:

(1) The results of ANOVA may be used to evaluate the relative value of a particular element, either in the heavy-mineral concentrate or stream-sediment data, to detect broad-scale geochemical features relative to the sampling density chosen for the Golden Trout Wilderness. Only if a significant proportion of the data variance is at the intercell level can one be confident that the observed

Table 6.--Mean element contents for the major rock units in the Golden Trout Wilderness Area
[All values in ppm, except for Fe, Mg, Ca, and Ti which are in percent; N, is not detected in any samples]

Number of samples	Rock Name	Fe	Mg	Ca	Ti	Mn	Ag	B	Ba	Be	Bi	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sc	Sn	Sr	V	W	Y	Zn	Zr
4	Granodiorite of Doe Meadow--------	2.5	1.1	1.8	0.3	500	N	18.	650.	1.1	N	18.	13.	21.	50.	N	N	18.	20.	15.	N	400.	138.	N	25.	N	73.
3	Granite of Grasshopper Flat-------	1.5	.7	1.3	.2	633.	N	N	633.	1.7	N	7.	N	5.7	37.	N	N	5.7	30.	6.3	N	500.	100.	N	15.	N	90.
3	Alaskite of Kern Peak----------	1.0	.2	.0	.1	500.	N	N	833.	1.3	N	N	N	6.2	47.	N	N	4.0	37.	5.0	N	383.	50.	N	15.	N	107.
3	Granodiorite of Schaeffer Meadow--	3.0	3.3	2.0	.4	500.	N	8.3	733.	1.0	N	18.	13.	17.	37.	N	N	15.	18.	18.0	N	700.	167.	N	27.	N	117.
6	Granite of Window Cliffs----------	1.8	.7	1.4	.3	467.	N	N	633.	1.3	N	11.	7.3	26.	68.	N	N	6.8	23.	9.0	N	383.	100.	N	23.	N	83.
3	Alaskite of Coyote Pass----------	.7	.1	.5	.1	467.	N	N	400.	1.6	N	2.8	N	N	50.	N	11.	4.0	37.	4.0	N	133.	30.	N	20.	N	90.
2	Alaskite of Olancha Peak----------	.9	.1	.6	.2	600.	N	N	700.	1.3	N	N	N	3.0	75.	N	12.	3.5	30.	7.5	N	100.	20.	N	20.	N	135.
5	Paradise Granodiorite------------	1.5	.8	1.6	.3	420.	N	N	600.	1.1	N	7.2	6.8	8.4	64.	3.4	N	6.4	23.	7.6	N	580.	104.	N	10	N	50.
2	Aplite---------------------------	.9	.3	.8	.2	250.	0.3	N	700.	1.8	N	3.8	N	3.5	75.	N	N	4.3	30.	5.3	N	225.	50.	N	23.	N	50.
4	Granite of Carrol Creek----------	1.0	.4	.7	.2	425.	N	N	550.	1.6	N	2.8	N	3.5	60.	N	13.	6.8	28.	5.1	N	238.	63.	N	15.	N	83.
3	Alaskite of Hells Hole----------	.5	.1	.3	.1	233.	N	N	400.	1.1	N	5.0	N	3.2	50.	N	N	4.0	27.	3.7	N	83.	23.	N	6.7	N	60.
2	Undifferentiated Granodiorite-----	1.8	1.0	1.8	.4	600.	0.3	N	600.	1.5	N	7.0	7.5	13.	60.	N	N	12.	18.	10.	N	500.	100.	N	25.	N	75.
2	Mafic plutonic rocks-------------	3.5	2.0	3.3	.2	700.	N	N	425.	.8	N	28.	53.	58.	40.	N	N	17.	18.	19.	N	700.	200.	N	15.	N	45.
2	Granite of Little Kern Lake Creek-	.8	.3	.5	.2	250.	N	N	700.	1.5	N	6.3	N	4.3	70.	N	12.	3.5	30.	3.8	6.0	175.	35.	N	13.	N	110.
1	Granite of Little Whitney Meadow--	1.5	.7	1.5	.2	500.	N	N	700.	1.5	N	5.0	N	7.0	50.	N	N	3.5	20.	7.0	N	500.	70.	N	30.	N	150.
2	Alaskite of Maggie Mountain-------	.7	.1	.2	.1	250.	N	N	150.	1.8	7.5	N	N	N	18.	N	15.	3.5	50.	5.3	7.5	N	N	N	30.	N	70.
1	Alaskite of Moses Mountain--------	1.0	.1	.2	.1	100.	0.4	N	1000.	2.0	N	N	N	5.0	50.	N	20.	3.5	30.	3.5	7.0	N	N	N	50.	N	150.
3	Granodiorite of Pecks Canyon------	1.5	.8	1.5	.3	567.	N	N	367.	1.3	N	8.2	18.	11.	33.	N	N	12.	25.	9.5	N	300.	83.	N	17.	N	100.
2	Granodiorite of Quinn Peak--------	1.8	.9	1.8	.3	500.	N	N	400.	1.3	N	11.	18.	4.3	25.	N	N	7.5	25.	10.	N	400.	125.	N	15.	N	70.
4	Granodiorite of Redrock Meadows---	1.3	.5	1.1	.2	550.	0.3	N	750.	1.3	N	4.3	N	7.8	55.	N	N	3.9	21.	8.5	N	388.	84.	N	25.	N	138.
2	Granodiorite of Sheep Creek-------	2.0	.8	1.5	.3	600.	N	N	850.	1.5	N	7.5	14.	7.5	70.	N	N	5.3	30.	8.5	N	400.	110.	N	25.	N	110.
2	Granodiorite of Tower Rock--------	1.0	.6	1.0	.2	300.	N	N	850.	1.3	N	5.3	7.5	13.	60.	3.8	N	8.5	30.	5.0	N	500.	70.	N	10.	N	70.
3	Granodiorite of Volcano Falls-----	2.0	.8	1.8	.3	367.	N	8.3	800.	1.0	N	12.	9.0	13.	37.	2.8	N	8.0	22.	6.3	N	900.	167.	N	12.	N	73.
7	Whitney Granodiorite-------------	1.6	.4	.9	.2	357.	N	N	514.	1.5	N	3.6	5.7	16.	83.	N	N	3.7	36.	4.2	N	529.	61.	N	8.0	N	80.
4	Granite of White Mountain---------	1.1	.4	1.2	.2	325.	N	N	475.	1.5	N	3.6	6.0	6.1	45.	N	N	3.5	28.	4.0	N	550.	65.	N	8.5	N	118.
8	Undifferentiated metamorphic rocks	2.2	.6	.7	.3	538.	0.4	29.	525.	1.5	6.3	6.8	25.	4.5	43.	2.9	N	10.	40.	7.9	6.8	250.	90.	N	16.	N	140.
4	Metasedimentary rocks------------	2.5	.8	1.5	.4	438.	.3	239.	353.	1.3	N	11.	74.	7.5	55.	3.9	16.	32.	34.	11.	7.5	305.	155.	N	28.	N	143.
3	Metavolcanic rocks---------------	1.5	.5	1.0	.3	533.	N	N	733.	1.2	N	4.3	N	29.	30.	3.3	N	3.5	30.	9.0	N	283.	90.	N	25.	N	117.
3	Rhyolite of Long Canyon----------	.4	.1	.2	.1	900.	0.7	100.	19.	6.3	N	N	N	2.8	17.	3.2	18.	2.8	100.	7.0	9.0	N	7.	N	17.	N	107.
2	Rhyolite of Templeton Mountain----	1.0	.1	.5	.1	700.	N	45.	1250.	2.3	N	N	N	3.5	60.	6.0	N	3.5	40.	3.5	N	250.	10.	N	13.	N	125.
1	Basalt---------------------------	7.0	3.0	3.0	.5	700.	N	15.	1000.	1.0	N	30.	200.	20.	56.	N	N	50.	20.	15.	N	700.	200.	N	10.	N	100.
3	Mafic dikes----------------------	9.0	2.3	2.3	.6	800.	N	9.0	367.	.8	N	30.	53.	57.	37.	N	N	9.0	8.	22.	N	800.	367.	N	33.	N	90.
4	Xenoliths------------------------	7.3	1.7	1.7	.6	1175.	0.4	10.	900.	1.7	N	19.	53.	46.	68.	2.8	16.	20.	20.	20.	6.3	338.	213.	N	40.	200.	250.
4	Pine tree mine dump sample--------	4.5	.3	7.8	.1	3500.	.8	10.	N	1.1	7.8	5.0	25.	15.	N	78.	N	28.	11.	7.0	78.	93.	650.	225.	13.	300.	23.
1	Altered metavolcanics with sulfides	3.0	1.5	1.5	.5	700.	2.0	10.	500.	7.0	50.	20.	30	50.	50.	3.5	N	30.	50.	15.	N	500.	150.	100.	15.	N	50.

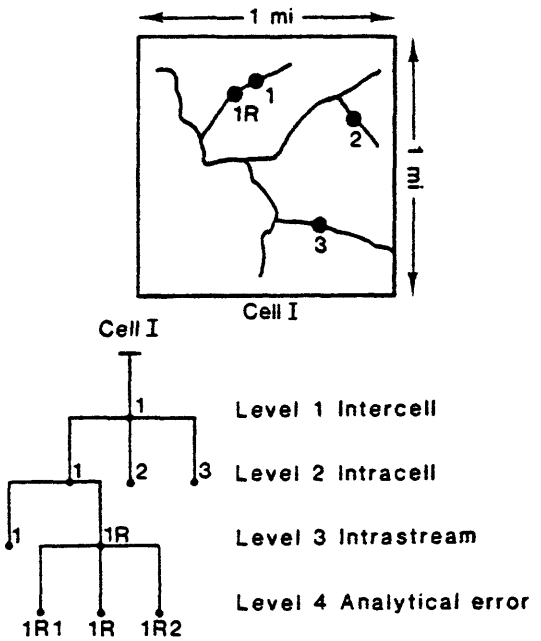

Figure 8. Sample design for ANOVA.

Table 7.--Analysis of variance for stream sediments

Element	Total log variance	Variance components are expressed as percent of total variance			
		Intercell	Intracell	Intrastream	Analytical
Fe	0.0801	17*	39	21*	23
Mg	.0915	36*	39*	4	21
Ca	.0867	42*	30*	5	23
Ti	.0305	0	36	8	56
Mn	.0358	28*	13	0	59
B	.0941	21*	29*	0	50
Ba	.1374	20*	0	0	80
Be	.0339	33*	15	0	52
Co	.0835	56*	21*	6	17
Cr	.1065	34*	29	12	25
Cu	.1483	66*	21*	2	11
La	.0822	64*	2	0	34
Mo	.0739	89*	2	5*	4
Ni	.0576	39*	30*	4	27
Pb	.0591	26*	26*	0	48
Sc	.0820	33*	17	0	50
Sr	.0589	46*	33*	1	20
V	.0884	33*	1	0	66
Y	.0854	55*	11	0	34
Zr	.1173	14*	34	0	52

*Significant as defined by the F-test at the 95 percent probability level.

Table 8.--Analysis of variance for heavy-mineral concentrates

Element	Total log variance	Variance components are expressed as percent of total variance			
		Intercell	Intracell	Intrastream	Analytical
Fe	0.0544	64*	3	12	21
Mg	.4367	72*	20*	4*	4
Ca	.0301	51*	0	6	43
Mn	.0218	28*	19	0	53
Ag	.0954	29*	0	60*	11
Ba	.1547	68*	19*	3	10
Be	.0058	25*	5	0	70
Bi	.3850	54*	23*	0	22
Cr	.0755	22*	47*	11	20
Cu	.0500	23*	0	32	45
La	.1319	86*	7*	0	7
Mo	.1219	66*	13	0	21
Nb	.0526	77*	4	3	15
Pb	.1932	51*	38*	0	11
Sc	.0127	36*	0	9	55
Sn	.0902	58*	32*	0	10
V	.0960	54*	0	0	46
W	.0503	45*	0	42*	13
Y	.0833	52*	34*	2	12
Zr	.0857	71*	0	10	19
Th	.2243	51*	32*	8*	9

*Significant as defined by the F-test at the 95 percent probability level.

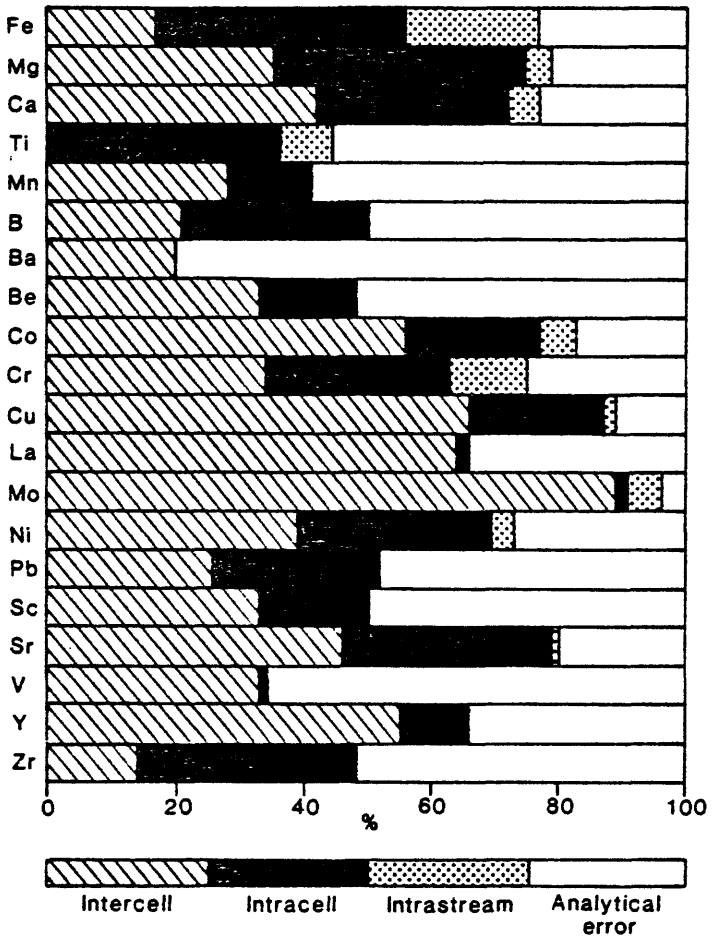

Figure 9. Percent of total logarithmic variance at each of four levels for stream sediment.

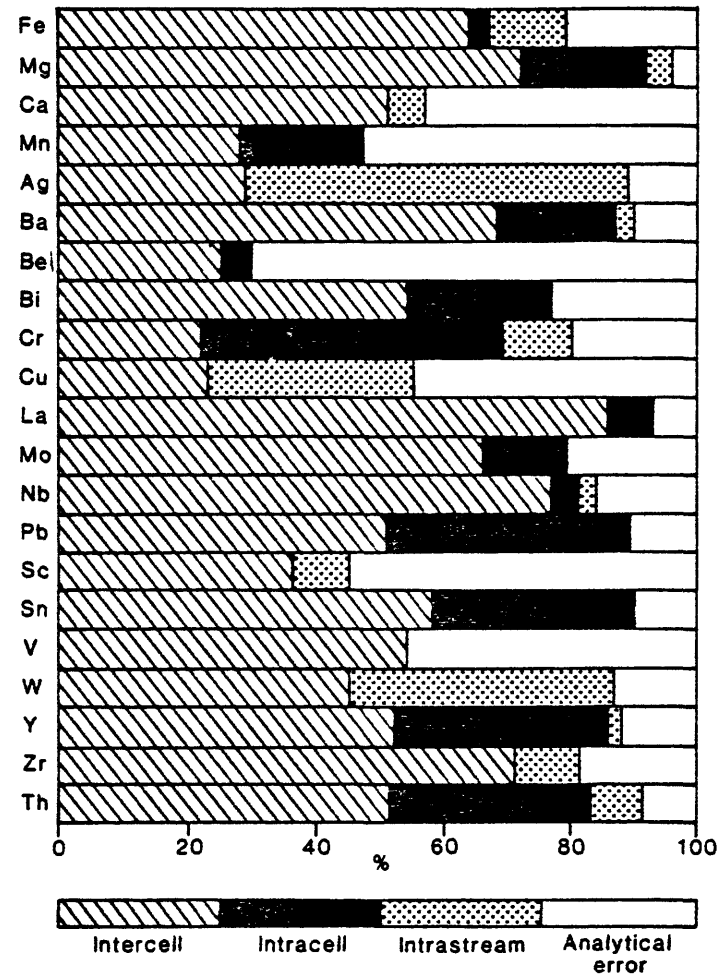

Figure 10. Percent of total logarithmic variance at each of the four levels for heavy-mineral concentrates.

variability is due to broad-scale features rather than local variability. This would permit some degree of confidence in defining possible anomalous areas. For example, Pb or W in the heavy-mineral concentrates may better define areas of skarn mineralization in some of the roof pendant rocks than would Cu or Ag which have lower intercell variability and higher intracell variability.

(2) The results of ANOVA also provide some estimate of the adequacy of the selected sampling density to detect broad-scale geochemical features for particular elements. For example, if a particular element of interest shows a significant variability at the intracell level, additional samples from other streams within the cells would have improved the definition of broad scale geochemical features. However, if a large amount of variation is at the intrastream level, i.e. Ag and W in the heavy-mineral concentrates, the variation in the data may provide little information about broad geochemical features and will indicate only very localized geochemical factors.

(3) The ANOVA may also be used to compare the analytical variation for each element relative to the natural variation observed in the data for the Golden Trout Wilderness. For many elements, the analytical variance is significantly less than the variance at the intercell level. However, some of the elements have analytical variances that are significantly greater than expected for the analytical techniques used in this study. Part of the apparent analytical error includes uncertainties in sample preparation. In addition, the apparent high analytical variances for some elements is the result of the low natural variation for these elements in the Golden Trout Wilderness with respect to the spectrographic reporting

intervals. For example, 50 percent of the concentrations of Ba in stream sediments fall within two spectrographic reporting intervals (fig. 5), which is also reflected in the low variances calculated for the levels above the analytical level. Therefore by default, the analytical variance for Ba in stream sediments is high relative to the variances at higher levels. This should not be interpreted as a criticism of the analytical techniques; rather it reflects the lack of significant variation in the concentration of certain elements

DESCRIPTION OF DATA TABLES

Data in tables 9, 10, and 11 are arranged so that column 1 contains the assigned field number that is plotted on the location map (plate 1). An R following the field number indicates the sample is a replicate sample collected 100 m downstream of the sample with the identical preceding digits. R1 and R2 indicate that these samples are analytical splits of the replicate sample. Latitude and longitude (in degrees, minutes, and seconds) are given in columns 2 and 3. The remaining columns contain the concentrations of the elements reported. All determinations were made by semiquantitative emission spectrometry with the exception of the data for uranium in the last column which were determined by neutron activation analysis-delayed neutron counting. [All element concentrations are given in parts per million (ppm) except for Fe, Mg, Ca, and Ti, which are given in percent.]

If an element was looked for in the spectrographic analysis but not detected in the sample, an N is given in place of an analytical value. If an element was not detected because of spectral interferences, an H is given in place of an analytical value. If data does not exist for a particular element in a sample, a B is given.

Table 12 summarizes the analytical data for the water samples. Column 1 gives the assigned field number that is plotted on the location map (plate 1). Sample numbers with an Sp indicate samples collected from a spring, whereas all other samples were collected from small-order streams.

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Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
001	36 26 24	118 18 29	7.0	1.50	2.0	.700	700	N	N	N	15	200.0
002	36 25 35	118 18 6	3.0	1.00	2.0	.700	700	N	N	N	10	200.0
003	36 24 6	118 16 52	7.0	1.50	2.0	.700	700	N	N	N	<10	200.0
004	36 24 54	118 16 44	3.0	.70	1.0	.300	500	N	N	N	15	200.0
005	36 24 57	118 16 23	>20.0	.70	.7	.300	700	N	N	N	<10	150.0
006	36 27 17	118 16 52	7.0	1.00	2.0	.700	1,000	N	N	N	10	300.0
006R	36 27 17	118 16 52	7.0	1.00	2.0	1.000	1,000	N	N	N	10	200.0
006R1	36 27 17	118 16 52	3.0	.70	1.5	.500	700	N	N	N	N	150.0
006R2	36 27 17	118 16 52	2.0	.70	1.5	.500	500	N	N	N	N	150.0
007	36 26 38	118 16 24	3.0	1.00	2.0	.300	700	N	N	N	N	200.0
008	36 25 54	118 16 54	10.0	.70	1.5	.300	500	N	N	N	<10	150.0
009	36 26 29	118 17 17	20.0	.70	1.0	.500	700	N	N	N	<10	200.0
010	36 26 21	118 15 36	1.0	.20	.7	.200	300	N	N	N	N	150.0
011	36 25 33	118 15 34	15.0	.20	1.0	.500	500	N	N	N	<10	150.0
012	36 27 13	118 11 46	3.0	.30	1.5	.500	700	N	N	N	10	150.0
013	36 28 16	118 12 27	1.0	.20	1.5	.500	500	N	N	N	N	150.0
014	36 28 19	118 12 20	5.0	.15	.7	.300	500	N	N	N	N	150.0
015	36 27 58	118 11 40	1.5	.20	1.0	.300	300	N	N	N	N	150.0
016	36 27 41	118 10 32	1.5	.15	1.0	.300	500	N	N	N	N	150.0
017	36 27 46	118 10 23	2.0	.15	1.5	.500	200	N	N	N	N	150.0
018	36 20 22	118 6 28	5.0	.30	1.0	.700	700	N	N	N	20	300.0
018R	36 20 22	118 6 28	10.0	.30	1.0	.700	1,500	N	N	N	10	300.0
018R1	36 20 22	118 6 28	15.0	.15	.5	.300	500	N	N	N	20	150.0
018R2	36 20 22	118 6 28	15.0	.20	.7	.300	500	N	N	N	20	200.0
019	36 20 1	118 7 17	3.0	.50	1.0	.500	700	N	N	N	20	500.0
020	36 19 26	118 7 45	2.0	.70	1.0	.300	700	N	N	N	15	500.0
021	36 18 36	118 7 39	2.0	.30	.7	.300	500	N	N	N	30	200.0
022	36 21 8	118 8 23	3.0	.30	.7	.300	1,000	N	N	N	30	200.0
023	36 20 30	118 8 48	3.0	.70	1.0	.300	700	N	N	N	15	200.0
024	36 20 18	118 9 40	10.0	.30	2.0	1.000	700	N	N	N	10	150.0
025	36 19 4	118 10 59	5.0	1.00	3.0	.700	700	N	N	N	20	300.0
026	36 19 15	118 9 29	5.0	1.00	3.0	.700	1,500	N	N	N	20	300.0
027	36 20 44	118 8 3	5.0	.50	1.5	.500	1,000	N	N	N	20	300.0
028	36 20 12	118 8 20	5.0	.30	.7	.700	700	N	N	N	30	200.0
029	36 20 32	118 9 21	5.0	.30	1.5	.700	1,000	N	N	N	10	200.0
030	36 20 14	118 10 41	7.0	.70	1.5	.500	500	N	5,000	N	20	200.0
031	36 19 39	118 24 22	3.0	.70	2.0	.300	500	2.0	N	N	20	300.0
032	36 19 12	118 24 25	5.0	1.00	1.5	.300	1,500	N	N	N	20	200.0
033	36 18 12	118 24 23	7.0	2.00	3.0	.500	1,000	N	N	N	15	300.0
034	36 17 40	118 24 35	7.0	1.50	3.0	.700	1,000	N	N	N	15	300.0
035	36 17 1	118 24 36	2.0	.70	.7	.300	1,000	N	N	N	15	500.0
036	36 16 5	118 24 33	7.0	2.00	3.0	.500	1,500	N	N	N	15	500.0
037	36 16 29	118 24 27	3.0	1.00	.7	.300	700	N	N	N	15	200.0
038	36 17 9	118 22 39	10.0	2.00	2.0	.500	1,000	N	N	N	10	300.0
039	36 16 50	118 23 17	10.0	2.00	3.0	.500	1,000	N	N	N	15	300.0

Table 1.--Data for stream-sediment samples from the Golden Trout Wilderness, California

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
001	1.5	N	N	15	20	30	70	<5	<20	10	30
002	1.0	N	N	15	10	20	70	5	<20	7	30
003	1.0	N	N	15	30	20	70	N	N	7	30
004	1.0	N	N	15	15	15	50	<5	N	7	30
005	<1.0	N	N	30	100	100	70	N	N	15	10
006	1.5	N	N	15	20	20	100	N	N	7	30
006R	1.5	N	N	15	20	30	100	<5	<20	7	50
006R1	1.5	N	N	7	10	10	100	N	<20	5	30
006R2	1.5	N	N	7	10	15	100	<5	<20	5	30
007	1.5	N	N	10	10	20	50	5	<20	7	50
008	1.0	N	N	15	30	30	70	N	N	10	20
009	1.0	N	N	20	70	70	70	N	<20	10	15
010	1.5	N	N	N	N	5	50	5	N	5	30
011	1.0	N	N	20	50	20	70	N	<20	7	20
012	2.0	N	N	10	10	15	70	<5	20	5	50
013	2.0	N	N	<5	N	15	70	5	N	5	30
014	1.5	N	N	<5	<10	7	70	N	N	5	20
015	2.0	N	N	N	N	5	50	7	N	5	30
016	2.0	N	N	N	N	5	50	7	N	5	30
017	2.0	N	N	N	<10	5	70	<5	N	5	20
018	3.0	N	N	10	10	30	100	5	N	5	30
018R	2.0	N	N	15	15	20	100	N	N	5	50
018R1	1.5	N	N	10	15	30	70	N	N	5	20
018R2	1.5	N	N	7	10	30	100	N	N	5	20
019	2.0	N	N	7	15	30	150	N	N	5	50
020	2.0	N	N	7	20	15	70	N	N	<5	50
021	1.5	N	N	5	<10	15	70	<5	N	7	30
022	3.0	N	N	15	10	20	70	7	N	7	50
023	2.0	N	N	10	15	20	100	N	N	5	70
024	2.0	N	N	10	15	30	300	N	20	<5	30
025	2.0	N	N	15	15	30	200	<5	<20	5	50
026	2.0	N	N	20	20	20	100	<5	<20	7	50
027	2.0	N	N	15	15	20	70	7	20	5	70
028	2.0	N	N	15	10	20	150	7	<20	7	50
029	2.0	N	N	15	10	30	100	<5	<20	5	30
030	5.0	N	N	15	20	20	70	20	<20	7	50
031	2.0	N	N	15	70	20	70	N	N	20	30
032	1.5	N	N	50	70	20	70	<5	N	30	20
033	2.0	N	N	30	50	20	50	<5	N	20	30
034	2.0	N	N	15	50	30	50	15	20	15	20
035	1.5	N	N	10	50	10	50	N	N	5	30
036	2.0	N	N	30	70	20	70	<5	20	20	30
037	1.5	N	N	15	30	20	N	<5	N	20	20
038	1.0	N	N	30	70	20	70	N	<20	20	30
039	1.0	N	N	30	50	500	30	N	<20	20	30

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
001	N	20	N	300	200	N	50	N	200	N
002	N	15	N	300	150	N	50	N	200	N
003	N	20	N	300	200	N	30	N	300	N
004	N	10	N	200	150	N	20	N	300	N
005	N	10	N	200	700	N	30	N	300	N
006	N	15	N	500	200	N	50	N	200	N
006R	N	20	N	500	200	N	50	N	300	N
006R1	N	7	N	300	100	N	30	N	150	N
006R2	N	7	N	300	100	N	30	N	100	N
007	N	10	N	300	150	N	20	N	200	N
008	N	10	N	300	200	N	15	N	300	N
009	N	15	N	200	500	N	30	N	300	N
010	N	<5	N	200	70	N	<10	N	100	N
011	N	10	N	500	300	N	30	N	500	N
012	N	10	N	300	200	N	30	N	500	N
013	N	5	N	300	70	<50	15	N	200	N
014	N	5	N	200	150	N	15	N	100	N
015	N	<5	N	300	50	N	10	N	50	N
016	N	<5	N	300	70	N	15	N	100	N
017	N	7	N	500	100	N	30	N	200	N
018	N	7	N	300	150	N	30	N	300	N
018R	N	7	N	500	200	N	30	N	700	N
018R1	N	5	N	300	200	N	15	N	700	100
018R2	N	5	N	300	300	N	15	N	700	N
019	N	7	N	300	150	N	20	N	300	N
020	N	7	N	300	100	N	20	N	300	N
021	N	<5	N	300	100	N	15	N	100	N
022	N	5	N	200	100	N	20	N	150	N
023	N	7	N	500	150	N	30	N	200	N
024	N	15	<10	500	300	N	100	N	300	300
025	N	15	N	700	200	N	70	N	500	N
026	N	20	N	700	200	N	50	N	500	N
027	N	15	N	500	200	N	50	N	300	N
028	N	15	N	300	200	N	50	N	300	N
029	N	10	30	500	200	N	70	N	500	100
030	N	20	N	500	200	N	30	<200	200	N
031	N	15	20	300	200	N	100	N	200	N
032	N	15	30	150	200	N	50	N	70	N
033	N	30	N	300	200	N	50	N	300	N
034	N	20	10	200	200	<50	70	N	300	N
035	N	10	N	200	200	N	30	N	300	N
036	N	30	N	300	100	N	70	N	500	N
037	N	10	N	150	200	N	20	N	100	N
038	N	30	N	300	150	N	50	N	300	N
039	N	30	N	300	300	N	50	N	300	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--Continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
040	36 17 4	118 23 7	7.0	2.00	2.0	.500	1,000	N	N	N	10	500.0
041	36 18 36	118 21 45	7.0	1.50	2.0	.500	1,500	N	N	N	10	300.0
042	36 18 19	118 22 6	15.0	.70	1.5	.300	1,500	N	N	N	10	300.0
043	36 22 41	118 20 55	7.0	.50	1.0	.300	500	N	N	N	20	200.0
044	36 23 30	118 21 25	10.0	1.50	3.0	.700	1,000	N	N	N	15	200.0
045	36 22 14	118 22 10	15.0	.30	.7	1.000	1,500	N	N	N	20	300.0
046	36 23 22	118 21 32	7.0	1.00	2.0	.500	1,000	N	N	N	15	150.0
047	36 19 1	118 16 7	15.0	1.00	3.0	.500	700	N	N	N	10	150.0
047R	36 19 1	118 16 7	15.0	.70	2.0	.500	500	N	N	N	10	100.0
047R1	36 19 1	118 16 7	10.0	.70	1.5	.300	500	N	N	N	10	150.0
047R2	36 19 1	118 16 7	7.0	.70	1.5	.300	500	N	N	N	10	150.0
048	36 19 1	118 15 24	7.0	1.50	5.0	.500	1,000	N	N	N	10	300.0
049	36 23 6	118 31 59	5.0	.20	.5	.300	1,000	N	N	N	10	100.0
050	36 21 57	118 31 59	7.0	.30	.7	.500	1,500	N	N	N	10	200.0
051	36 21 0	118 31 51	10.0	.30	.5	.500	1,000	N	N	N	10	200.0
052	36 21 3	118 32 6	5.0	.20	.3	.300	700	N	N	N	10	100.0
052R	36 21 3	118 32 6	7.0	.30	.5	.700	1,500	N	N	N	20	200.0
052R1	36 21 3	118 32 6	7.0	.30	.3	.300	700	N	N	N	20	200.0
052R2	36 21 3	118 32 6	7.0	.30	.3	.300	700	N	N	N	20	200.0
053	36 20 10	118 32 4	7.0	.30	1.0	1.000	2,000	N	N	N	30	300.0
054	36 20 14	118 32 13	7.0	1.50	1.0	.500	1,500	.5	N	N	150	700.0
055	36 20 59	118 30 32	10.0	.50	.7	.500	1,500	N	N	N	20	300.0
056	36 20 32	118 30 35	15.0	.70	1.0	.700	1,000	N	N	N	20	150.0
057	36 20 0	118 31 38	5.0	.50	.7	.500	1,000	N	N	N	50	300.0
058	36 18 56	118 30 52	7.0	.30	.7	.700	700	N	N	N	70	300.0
059	36 18 46	118 31 20	7.0	.50	.7	.500	700	N	N	N	10	300.0
060	36 18 4	118 31 3	20.0	.50	1.0	1.000	1,500	N	N	N	20	200.0
061	36 18 13	118 31 7	10.0	1.00	1.5	1.000	2,000	N	N	N	50	500.0
062	36 17 55	118 31 16	3.0	.50	1.5	.500	700	N	N	N	10	300.0
063	36 19 19	118 29 27	15.0	1.50	5.0	1.000	2,000	N	N	N	10	150.0
064	36 18 52	118 29 28	10.0	.70	2.0	1.000	2,000	N	N	N	10	100.0
064R	36 18 52	118 29 28	5.0	1.00	1.0	.300	1,500	N	N	N	<10	100.0
064R1	36 18 52	118 29 28	7.0	.70	1.0	.500	700	N	N	N	15	200.0
064R2	36 18 52	118 29 28	7.0	.70	1.5	.500	700	N	N	N	15	200.0
065	36 18 23	118 29 51	15.0	1.00	1.5	1.000	1,500	N	N	N	20	150.0
066	36 18 5	118 30 14	2.0	.30	1.5	.700	500	N	N	N	15	100.0
067	36 16 55	118 30 21	5.0	.50	3.0	.700	700	N	N	N	15	300.0
068	36 16 43	118 30 27	15.0	1.00	2.0	>1.000	5,000	N	N	N	10	200.0
069	36 16 30	118 30 56	5.0	.30	1.0	1.000	1,500	N	N	N	15	150.0
070	36 15 1	118 24 49	5.0	2.00	2.0	.700	1,500	N	N	N	10	200.0
071	36 15 50	118 24 15	7.0	1.50	2.0	.700	1,000	N	N	N	15	300.0
072	36 16 29	118 24 8	15.0	1.00	3.0	1.000	1,000	N	N	N	10	200.0
073	36 19 56	118 34 28	5.0	1.50	2.0	.300	1,000	N	N	N	15	200.0
074	36 19 0	118 34 4	7.0	.70	1.0	.300	700	N	N	N	10	300.0
075	36 18 51	118 33 59	2.0	.70	1.0	.200	700	N	N	N	30	300.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
040	1.0	N	N	30	50	30	50	N	N	20	30
041	1.5	N	N	20	20	15	70	N	N	10	30
042	1.0	N	N	20	70	200	50	N	<20	10	15
043	2.0	N	N	15	20	15	50	N	N	10	20
044	2.0	N	N	20	70	20	100	N	N	10	30
045	2.0	N	N	20	50	20	150	N	30	10	20
046	3.0	N	N	20	20	15	100	N	N	7	50
047	2.0	N	N	20	50	20	70	N	N	10	20
047R	2.0	N	N	20	30	20	70	N	N	7	20
047R1	1.5	N	N	10	30	30	50	N	N	5	30
047R2	1.0	N	N	10	30	20	50	N	N	5	20
048	2.0	N	N	20	30	15	100	N	N	7	30
049	5.0	N	N	N	<10	<5	300	7	30	<5	30
050	5.0	N	N	N	10	N	500	5	70	<5	50
051	3.0	N	N	N	10	N	300	<5	50	<5	50
052	3.0	N	N	N	10	5	300	<5	30	<5	30
052R	5.0	N	N	5	15	10	500	5	70	5	70
052R1	1.5	N	N	N	30	7	200	5	30	<5	30
052R2	2.0	N	N	N	10	7	200	5	30	5	30
053	5.0	N	N	5	20	10	700	N	100	5	100
054	2.0	N	N	20	100	20	300	10	30	30	100
055	3.0	N	N	7	15	<5	100	N	70	20	30
056	2.0	N	N	20	30	7	200	N	50	5	10
057	3.0	N	N	10	20	5	100	N	30	5	20
058	2.0	N	N	15	70	10	70	N	N	7	20
059	3.0	N	N	10	30	10	50	N	N	5	30
060	1.5	N	N	20	70	5	300	N	50	5	20
061	3.0	N	N	10	100	20	300	5	100	5	50
062	3.0	N	N	7	10	15	100	20	<20	<5	70
063	3.0	N	N	15	20	7	300	N	70	5	50
064	2.0	N	N	7	30	<5	500	N	50	5	30
064R	2.0	N	N	5	10	<5	200	N	20	5	30
064R1	1.5	N	N	<5	20	<5	150	N	20	<5	20
064R2	1.5	N	N	5	30	<5	200	N	<20	<5	20
065	2.0	N	N	15	50	15	300	N	70	5	50
066	3.0	N	N	5	<10	N	100	N	N	<5	30
067	3.0	N	N	7	15	<5	150	N	30	5	70
068	1.0	N	N	20	70	15	300	N	70	5	30
069	2.0	N	N	7	15	<5	200	N	20	5	20
070	2.0	N	N	20	20	15	50	N	N	7	20
071	2.0	N	N	20	20	20	50	N	20	10	20
072	1.5	N	N	30	50	15	100	N	20	15	10
073	2.0	N	N	15	70	10	50	N	N	10	30
074	2.0	100	N	10	30	<5	200	7	N	5	30
075	2.0	N	N	N	15	5	50	5	N	10	30

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
040	N	30	N	300	200	N	50	N	300	N
041	N	20	N	200	200	N	50	N	700	N
042	N	15	N	200	300	N	50	N	700	150
043	N	10	N	300	200	N	30	N	500	N
044	N	20	N	500	300	N	50	N	500	N
045	N	10	N	200	300	N	70	N	500	N
046	N	15	N	500	200	N	50	N	500	N
047	N	15	N	500	300	N	50	N	500	N
047R	N	20	N	300	300	N	50	N	700	N
047R1	N	10	N	300	200	N	20	N	500	N
047R2	N	7	N	300	200	N	30	N	500	N
048	N	30	N	500	300	N	70	N	500	N
049	N	20	<10	N	100	N	150	N	500	<100
050	N	30	10	N	150	N	200	N	>1,000	100
051	N	20	N	<100	150	N	150	N	700	200
052	N	15	N	N	100	N	150	N	700	<100
052R	N	30	10	N	150	N	200	N	>1,000	500
052R1	N	7	15	N	70	N	150	N	700	N
052R2	N	10	15	N	70	N	150	N	1,000	N
053	N	50	N	N	150	N	200	N	>1,000	100
054	N	30	N	200	300	N	100	300	1,000	N
055	N	30	N	100	200	N	150	N	>1,000	N
056	N	30	N	150	300	N	100	N	>1,000	N
057	N	30	N	100	150	N	100	N	1,000	N
058	N	10	N	500	200	N	30	N	300	N
059	N	7	N	500	200	N	20	N	500	N
060	N	30	N	150	500	N	150	N	>1,000	N
061	N	30	N	150	200	N	200	N	>1,000	N
062	N	10	N	500	200	N	20	N	500	N
063	N	30	N	200	200	N	200	N	>1,000	100
064	N	20	N	100	150	N	100	N	>1,000	<100
064R	N	20	N	100	100	N	100	N	1,000	N
064R1	N	20	N	150	100	N	100	N	1,000	N
064R2	N	15	N	150	100	N	100	N	700	N
065	N	20	N	150	200	N	100	N	>1,000	100
066	N	5	N	300	150	N	50	N	300	N
067	N	7	N	500	200	N	70	N	500	150
068	N	30	N	150	300	N	100	N	>1,000	N
069	N	20	N	150	150	N	100	N	700	N
070	N	20	N	300	200	N	70	N	300	N
071	N	20	N	300	150	N	70	N	500	N
072	N	20	N	300	500	N	100	N	1,000	N
073	N	15	N	300	200	N	30	N	300	N
074	N	15	N	200	200	N	70	N	300	N
075	N	5	N	200	70	N	30	N	200	700

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
076	36 18 24	118 33 24	2.0	.70	.7	.300	1,000	N	N	N	50	300.0
077	36 17 38	118 33 13	5.0	.50	1.5	.700	1,000	N	N	N	100	300.0
078	36 17 26	118 34 41	3.0	.70	1.0	.300	1,500	N	N	N	15	500.0
079	36 16 52	118 34 30	2.0	.30	1.0	.300	700	N	N	N	20	300.0
080	36 16 42	118 34 21	2.0	.20	.7	.500	700	N	N	N	70	200.0
081	36 18 12	118 38 46	3.0	1.50	3.0	.700	1,500	N	N	N	15	500.0
082	36 18 19	118 39 44	3.0	.70	.7	.500	1,000	N	N	N	70	300.0
083	36 18 8	118 39 41	3.0	.50	1.0	.500	1,500	N	N	N	10	300.0
084	36 18 3	118 39 59	3.0	1.00	.7	.700	1,000	N	N	N	70	300.0
085	36 17 19	118 39 49	2.0	.70	.7	.300	1,000	N	N	N	20	200.0
086	36 17 5	118 39 52	7.0	1.50	1.0	.700	1,000	N	N	N	70	300.0
087	36 16 32	118 39 52	5.0	1.00	.3	.500	700	N	N	N	70	300.0
088	36 16 13	118 39 59	7.0	1.50	1.0	.700	1,500	N	N	N	70	700.0
201	36 17 59	118 10 15	2.0	.50	.7	.300	1,000	N	N	N	N	300.0
202	36 17 51	118 10 49	3.0	1.50	2.0	.500	1,000	N	N	N	10	500.0
203	36 17 54	118 12 5	5.0	1.50	3.0	.700	1,500	N	N	N	10	700.0
204	36 18 21	118 5 47	3.0	.30	.7	.300	1,500	N	N	N	10	300.0
205	36 18 17	118 5 12	3.0	.70	1.0	.300	1,000	N	N	N	15	300.0
206	36 18 23	118 4 7	7.0	.15	.7	.500	500	N	N	N	<10	200.0
207	36 21 54	118 6 18	2.0	.20	.7	.200	700	N	N	N	N	300.0
208	36 22 13	118 5 50	3.0	.10	.5	.300	700	1.5	N	N	N	200.0
209	36 23 27	118 4 28	7.0	.70	1.0	.500	1,000	<.5	N	N	<10	200.0
210	36 16 14	118 8 29	15.0	1.00	1.0	.300	1,000	N	N	N	N	200.0
211	36 17 2	118 9 51	5.0	.70	.7	.300	1,000	N	N	N	N	500.0
212	36 17 1	118 10 4	5.0	.30	.5	.200	700	N	N	N	N	300.0
213	36 17 18	118 11 16	10.0	3.00	7.0	.700	1,500	N	N	N	N	300.0
214	36 17 14	118 11 49	3.0	1.50	5.0	.700	1,500	N	N	N	30	500.0
215	36 21 27	118 9 50	3.0	.30	.5	.300	300	N	N	N	N	150.0
216	36 22 2	118 10 23	3.0	.30	.7	.300	500	N	N	N	N	150.0
217	36 22 5	118 10 24	3.0	.50	1.0	.300	500	N	N	N	N	150.0
218	36 22 47	118 9 56	7.0	.20	1.0	.500	700	N	N	N	<10	150.0
219	36 23 4	118 11 26	5.0	.50	1.0	.500	1,000	N	N	N	10	200.0
220	36 22 18	118 11 21	7.0	1.50	3.0	.700	1,500	N	N	N	15	300.0
221	36 22 18	118 10 46	3.0	.30	2.0	.500	1,000	N	N	N	<10	150.0
222	36 24 55	118 5 9	7.0	2.00	2.0	.700	1,000	N	N	N	<10	200.0
223	36 25 37	118 4 1	3.0	1.50	1.0	.700	700	N	N	N	15	200.0
224	36 26 24	118 5 16	5.0	1.50	2.0	.700	1,000	N	N	N	<10	300.0
225	36 17 44	118 18 15	7.0	2.00	2.0	.500	700	N	N	N	10	300.0
226	36 16 55	118 18 4	10.0	1.50	2.0	.500	1,500	N	N	N	10	500.0
227	36 16 57	118 17 41	3.0	.70	.7	.300	1,000	N	N	N	10	700.0
228	36 16 15	118 18 42	5.0	1.00	1.0	.300	1,000	N	N	N	10	300.0
229	36 15 38	118 20 5	7.0	1.00	1.0	.500	1,000	N	N	N	<10	500.0
230	36 16 1	118 19 58	7.0	1.50	1.0	.500	1,000	N	N	N	<10	300.0
231	36 15 59	118 20 8	5.0	1.50	1.5	.700	700	N	N	N	N	200.0
232	36 17 47	118 19 28	5.0	.70	.7	.300	500	N	N	N	10	200.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
076	2.0	N	N	7	10	10	N	N	N	<5	30
077	2.0	N	N	5	15	5	150	10	30	5	30
078	3.0	N	N	7	10	7	70	N	N	<5	50
079	3.0	N	N	N	N	<5	N	N	N	<5	15
080	2.0	N	N	5	15	5	70	N	N	5	10
081	3.0	N	N	7	20	10	100	<5	N	10	70
082	2.0	N	N	10	70	15	50	N	N	30	20
083	2.0	N	N	7	20	10	50	N	N	<5	30
084	2.0	N	N	15	70	15	70	N	20	30	20
085	10.0	N	N	5	50	7	N	N	N	20	70
086	3.0	N	N	20	100	20	50	N	20	30	50
087	5.0	N	N	15	70	20	70	7	20	50	70
088	3.0	N	N	20	100	20	50	N	20	30	50
201	1.5	N	N	10	N	10	50	N	<20	<5	30
202	2.0	N	N	15	15	20	70	N	<20	10	50
203	2.0	N	N	20	30	20	50	N	<20	15	50
204	3.0	N	N	7	<10	20	200	N	N	<5	50
205	3.0	N	N	5	10	30	50	N	N	<5	70
206	1.5	N	N	7	10	20	150	N	N	<5	30
207	5.0	N	N	<5	<10	30	70	10	N	<5	30
208	2.0	N	N	5	<10	20	70	20	<20	<5	30
209	3.0	N	N	10	10	20	150	5	<20	<5	30
210	1.5	N	N	30	50	30	70	N	N	10	20
211	1.0	N	N	10	10	15	50	N	N	5	100
212	2.0	N	N	5	10	10	50	N	N	5	20
213	1.5	N	N	50	15	20	50	N	N	10	30
214	2.0	N	N	30	15	20	200	N	N	10	30
215	3.0	N	N	7	10	20	70	5	N	7	30
216	3.0	N	N	7	10	20	50	<5	N	5	30
217	3.0	N	N	5	10	15	70	<5	N	<5	30
218	3.0	N	N	10	10	20	100	N	N	<5	30
219	2.0	N	N	10	10	20	70	N	<20	<5	50
220	2.0	N	N	15	10	20	100	5	N	<5	70
221	2.0	N	N	5	10	15	100	N	<20	<5	50
222	1.0	N	N	15	30	20	100	N	20	10	20
223	2.0	N	N	30	30	30	70	<5	<20	20	20
224	2.0	N	N	20	20	20	150	N	N	10	20
225	1.5	N	N	30	50	30	100	N	N	20	30
226	1.5	N	N	30	30	20	70	N	N	15	50
227	2.0	N	N	10	10	15	50	5	N	10	70
228	1.5	N	N	15	15	20	70	N	N	10	30
229	1.5	N	N	20	20	20	70	N	N	15	50
230	2.0	N	N	20	15	20	70	N	<20	10	30
231	1.5	N	N	20	15	15	50	N	<20	5	20
232	1.5	N	N	15	15	15	100	N	<20	15	30

Table 9--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
076	N	7	N	200	70	N	50	N	500	N
077	N	15	N	200	150	N	100	N	>1,000	150
078	N	7	N	200	100	N	50	N	300	N
079	N	5	N	200	70	N	30	N	200	N
080	N	7	N	100	100	N	50	N	300	N
081	N	20	N	300	150	N	70	N	300	N
082	N	15	N	150	150	N	50	N	300	N
083	N	10	N	150	100	N	50	N	500	N
084	N	15	N	100	100	N	50	N	500	N
085	N	5	N	100	50	N	70	N	200	N
086	N	20	N	100	150	N	70	N	300	N
087	N	15	N	N	100	N	70	N	200	N
088	N	20	N	200	150	N	70	N	500	N
201	N	5	N	300	100	N	20	N	300	N
202	N	20	N	300	150	N	50	N	300	N
203	N	30	N	300	200	N	50	N	300	N
204	N	5	N	300	100	N	20	N	200	N
205	N	5	N	300	150	N	20	N	300	N
206	N	<5	N	300	200	N	20	N	200	N
207	N	<5	N	300	50	N	10	N	150	N
208	N	5	N	200	200	N	20	N	200	N
209	N	15	N	300	300	N	70	N	300	150
210	N	20	N	200	300	N	50	N	300	N
211	N	10	N	200	150	N	50	N	300	N
212	N	7	N	150	70	N	30	N	200	N
213	N	50	N	500	300	N	70	N	700	N
214	N	20	N	300	200	N	100	N	500	N
215	N	7	N	300	150	N	20	N	150	N
216	N	7	N	300	100	N	20	N	200	N
217	N	5	N	300	100	N	20	N	200	N
218	N	7	N	300	200	N	30	N	500	200
219	N	7	N	300	200	N	30	N	200	N
220	N	15	N	700	200	N	50	N	200	N
221	N	5	N	300	150	N	50	N	300	N
222	N	20	N	200	200	N	70	N	300	N
223	N	30	N	200	200	N	50	N	500	N
224	N	30	N	500	300	N	100	N	300	N
225	N	30	N	500	300	N	70	N	300	N
226	N	30	N	300	200	N	50	N	500	N
227	N	15	N	300	150	N	50	N	100	N
228	N	20	N	300	200	N	50	N	300	N
229	N	30	N	300	200	N	50	N	1,000	N
230	N	30	N	300	300	N	50	N	1,000	N
231	N	30	N	500	200	N	50	N	300	N
232	N	20	N	200	200	N	70	N	300	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
233	36 16 55	118 19 36	7.0	1.00	1.0	.500	700	N	N	N	<10	200.0
234	36 17 6	118 19 23	5.0	1.00	1.0	.300	700	N	N	N	<10	200.0
235	36 17 40	118 20 3	15.0	1.00	1.0	.500	1,000	N	N	N	N	200.0
236	36 16 40	118 21 3	10.0	1.50	1.0	.500	1,000	N	N	N	<10	200.0
237	36 19 29	118 18 42	7.0	3.00	.3	1.000	1,500	N	N	N	10	500.0
238	36 19 47	118 19 1	5.0	1.50	1.0	.300	1,000	N	N	N	10	300.0
239	36 19 40	118 19 19	2.0	1.00	.7	.300	1,000	N	N	N	20	200.0
240	36 20 10	118 20 21	3.0	1.00	1.0	.300	1,000	N	N	N	10	300.0
241	36 20 45	118 19 45	15.0	1.00	1.0	.500	1,500	N	N	N	10	200.0
242	36 20 33	118 19 14	5.0	1.50	2.0	.500	1,000	N	N	N	20	500.0
243	36 21 20	118 19 20	2.0	1.50	3.0	.700	1,500	N	N	N	10	700.0
244	36 10 24	118 20 15	7.0	3.00	5.0	.700	1,500	N	N	N	10	200.0
245	36 10 4	118 21 12	7.0	3.00	5.0	.700	1,000	N	N	N	<10	150.0
246	36 9 48	118 22 9	10.0	2.00	5.0	1.000	1,000	N	N	N	N	100.0
246R	36 9 48	118 22 9	7.0	3.00	5.0	1.000	1,500	N	N	N	N	150.0
246R1	36 9 48	118 22 9	15.0	1.00	2.0	.700	700	N	N	N	10	150.0
246R2	36 9 48	118 22 9	10.0	1.00	2.0	.700	1,000	N	N	N	<10	150.0
247	36 9 17	118 22 19	7.0	3.00	5.0	1.000	1,500	N	N	N	N	150.0
248	36 8 54	118 21 27	15.0	3.00	7.0	>1.000	2,000	N	N	N	N	100.0
249	36 9 5	118 21 9	7.0	5.00	10.0	1.000	1,500	N	N	N	<10	300.0
250	36 20 3	118 17 29	5.0	2.00	3.0	.500	1,500	N	N	N	10	300.0
251	36 20 50	118 16 50	10.0	1.50	3.0	.500	1,500	N	N	N	10	200.0
252	36 27 49	118 6 50	7.0	.50	1.0	.700	700	N	N	N	<10	300.0
253	36 27 3	118 5 50	5.0	2.00	7.0	.500	1,500	N	N	N	20	300.0
254	36 14 23	118 35 8	2.0	1.50	1.5	.500	1,000	N	N	N	20	200.0
255	36 14 13	118 33 59	5.0	3.00	5.0	.700	1,000	N	N	N	50	500.0
256	36 13 53	118 34 14	7.0	3.00	1.5	.700	1,500	N	N	N	20	500.0
257	36 13 43	118 34 9	5.0	2.00	1.5	.500	1,000	N	N	N	20	200.0
258	36 13 38	118 32 50	7.0	2.00	1.0	.500	1,000	<.5	N	N	70	300.0
259	36 14 3	118 32 3	3.0	1.50	.7	.500	700	N	N	N	50	300.0
260	36 14 4	118 31 11	7.0	2.00	2.0	.700	1,000	N	N	N	150	500.0
261	36 11 11	118 30 54	3.0	1.50	3.0	.300	1,000	N	N	N	50	200.0
262	36 11 23	118 30 12	3.0	1.50	5.0	.500	1,000	N	N	N	30	300.0
263	36 11 41	118 29 18	5.0	1.50	7.0	1.000	1,500	N	N	N	10	200.0
264	36 12 6	118 28 14	5.0	1.50	5.0	1.000	500	N	N	N	15	150.0
265	36 12 26	118 27 40	3.0	.70	2.0	.500	1,000	N	N	N	N	200.0
266	36 12 16	118 27 19	7.0	.50	3.0	.300	5,000	N	N	N	15	500.0
267	36 11 41	118 28 0	5.0	.30	3.0	.700	700	N	N	N	10	300.0
268	36 11 55	118 27 23	3.0	1.00	1.5	.300	1,000	N	N	N	10	200.0
269	36 11 17	118 26 51	3.0	.50	2.0	.300	1,000	N	N	N	15	200.0
270	36 12 7	118 26 27	1.0	.20	1.0	.300	300	N	N	N	N	300.0
271	36 11 39	118 25 42	3.0	1.50	2.0	.700	1,500	N	N	N	N	300.0
272	36 17 48	118 27 58	7.0	1.00	2.0	.700	2,000	N	N	N	10	300.0
273	36 17 36	118 28 45	5.0	2.00	3.0	.700	1,500	N	N	N	10	300.0
274	36 17 5	118 28 47	3.0	.70	1.5	.500	1,000	N	N	N	20	500.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
233	1.5	N	N	20	15	20	50	N	N	5	20
234	1.5	N	N	20	30	20	50	N	N	15	30
235	1.0	N	N	20	30	20	70	N	N	10	30
236	1.5	N	N	20	20	15	70	N	N	10	30
237	1.0	N	N	30	50	30	50	<5	N	15	50
238	1.0	N	N	20	20	20	50	N	N	10	30
239	2.0	N	N	20	15	15	70	N	N	10	30
240	2.0	N	N	15	10	10	70	N	N	5	30
241	1.0	N	N	20	20	20	100	N	<20	5	30
242	1.5	N	N	20	20	20	70	<5	N	10	30
243	2.0	N	N	20	15	15	70	5	N	7	30
244	2.0	N	N	30	70	30	70	N	N	30	30
245	1.5	N	N	30	50	20	50	N	N	20	20
246	1.0	N	N	30	70	20	50	N	N	20	10
246R	1.0	N	N	30	50	30	50	N	N	20	20
246R1	<1.0	N	N	30	70	20	30	N	N	20	10
246R2	<1.0	N	N	30	70	30	30	N	N	15	10
247	1.5	N	N	50	70	30	30	N	N	30	10
248	1.0	N	30	50	150	50	30	N	N	30	10
249	1.5	N	N	50	100	50	50	N	N	50	20
250	2.0	N	N	20	20	15	30	N	N	7	30
251	2.0	N	N	30	70	30	70	N	20	10	30
252	2.0	N	N	20	20	30	200	N	20	5	50
253	2.0	N	N	20	20	20	200	10	30	7	30
254	2.0	N	N	10	20	15	50	N	N	10	30
255	2.0	N	N	20	70	20	50	5	N	10	70
256	1.5	N	N	30	100	20	30	7	N	20	30
257	1.5	N	N	20	70	15	20	N	N	15	30
258	2.0	N	N	20	70	20	30	N	N	30	100
259	2.0	N	N	20	30	15	50	N	N	15	70
260	3.0	50	N	20	70	20	50	N	N	20	70
261	1.5	N	N	20	50	10	30	N	N	15	20
262	2.0	N	N	15	20	10	70	N	N	10	30
263	2.0	N	N	15	20	5	150	N	20	10	30
264	1.5	N	N	15	30	5	150	N	<20	7	30
265	3.0	N	N	15	15	10	70	N	N	7	30
266	3.0	N	N	30	20	15	70	<5	N	15	50
267	3.0	N	N	7	15	5	100	N	20	<5	50
268	3.0	N	N	15	20	15	50	N	N	10	50
269	5.0	N	N	7	10	15	70	7	N	10	30
270	2.0	N	N	N	10	N	50	N	/ N	<5	30
271	2.0	N	N	15	70	20	30	N	<20	15	30
272	3.0	N	N	5	<10	N	500	N	50	<5	50
273	3.0	N	N	10	50	5	200	N	N	10	30
274	1.5	N	N	10	10	5	30	N	<20	<5	30

Table 9.--Data for stream sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
233	N	30	N	200	200	N	50	N	300	N
234	N	20	N	200	200	N	50	N	300	N
235	N	30	N	200	300	N	50	N	>1,000	200
236	N	30	N	300	300	N	50	N	1,000	N
237	N	50	N	500	300	N	70	N	700	150
238	N	30	N	300	200	N	50	N	300	N
239	N	20	N	200	150	N	50	N	300	N
240	N	15	N	200	150	N	50	N	300	N
241	N	20	N	200	300	N	50	N	>1,000	100
242	N	30	N	500	200	N	50	N	500	N
243	N	30	N	500	200	N	70	N	300	N
244	N	20	N	500	300	N	70	N	500	N
245	N	30	N	300	300	N	50	N	300	<100
246	N	30	N	300	300	N	70	N	500	N
246R	N	30	N	300	300	N	50	N	500	N
246R1	N	20	N	300	300	N	50	N	700	N
246R2	N	15	N	300	300	N	30	N	700	N
247	N	30	N	500	300	N	50	N	300	N
248	N	50	N	300	500	N	70	300	500	N
249	N	50	N	700	300	N	70	N	300	N
250	N	20	N	300	200	N	50	N	300	N
251	N	20	N	300	300	N	50	N	1,000	200
252	N	10	N	300	300	N	50	N	1,000	150
253	N	20	N	500	200	N	70	N	700	N
254	N	15	N	150	100	N	30	N	200	N
255	N	20	N	300	200	N	50	N	700	N
256	N	20	N	200	300	N	50	N	300	N
257	N	20	N	200	200	N	50	N	300	N
258	N	20	N	200	200	N	50	N	300	N
259	N	15	N	200	150	N	50	N	200	N
260	N	20	N	300	200	N	50	N	300	N
261	N	20	N	200	150	N	30	N	300	N
262	N	20	N	500	150	N	50	N	150	N
263	N	20	N	500	150	N	70	N	500	150
264	N	20	N	300	200	N	70	N	700	N
265	N	15	N	300	100	N	50	N	300	N
266	N	10	N	300	150	N	30	N	200	N
267	N	10	N	500	150	N	50	N	1,000	<100
268	N	10	N	300	100	N	15	N	300	N
269	N	5	N	300	70	N	10	N	200	N
270	N	<5	N	300	50	N	10	N	150	N
271	N	20	N	300	150	N	70	N	300	200
272	N	30	N	100	50	N	150	N	>1,000	N
273	N	30	N	200	100	N	100	N	700	N
274	N	20	N	200	100	N	50	N	200	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
275	36 16 31	118 28 48	5.0	3.00	5.0	.700	1,000	N	N	N	10	300.0
276	36 15 22	118 29 44	3.0	.70	3.0	.700	1,000	N	N	N	N	500.0
277	36 15 10	118 30 33	2.0	.70	3.0	.300	500	N	N	N	N	200.0
278	36 9 13	118 23 57	10.0	2.00	7.0	.500	1,500	N	N	N	10	500.0
279	36 19 49	118 23 26	7.0	1.00	3.0	.500	700	N	N	N	N	300.0
280	36 19 39	118 23 18	1.5	.50	1.0	.200	300	N	N	N	N	150.0
307	36 13 25	118 20 33	5.0	2.00	2.0	.700	700	N	N	N	20	500.0
308	36 13 38	118 18 31	7.0	1.50	1.5	.500	1,000	N	N	N	20	700.0
309	36 14 16	118 20 23	10.0	2.00	1.5	1.000	1,000	N	N	N	10	300.0
310	36 13 48	118 19 46	10.0	1.50	2.0	.300	700	N	N	N	15	500.0
311	36 10 35	118 22 10	10.0	2.00	2.0	.700	1,000	N	N	N	15	300.0
312	36 13 16	118 23 46	10.0	1.00	1.5	.500	1,000	N	N	N	20	500.0
313	36 14 21	118 24 50	7.0	1.50	1.5	.700	1,000	N	N	N	20	500.0
314	36 14 55	118 28 6	5.0	.70	.7	.500	700	N	N	N	30	500.0
314R	36 14 55	118 28 6	7.0	.70	.7	.500	700	N	N	N	30	500.0
314r1	36 14 55	118 28 6	5.0	.50	.5	.300	700	N	N	N	15	500.0
314r2	36 14 55	118 28 6	5.0	.50	.5	.300	500	N	N	N	15	500.0
315	36 14 20	118 28 34	5.0	.70	.7	.300	500	N	N	N	30	500.0
316	36 12 26	118 25 0	10.0	1.50	1.5	.700	1,000	N	N	N	20	700.0
317	36 11 10	118 25 45	15.0	1.50	1.5	1.000	1,000	N	N	N	20	500.0
318	36 10 45	118 23 20	10.0	2.00	1.5	.500	1,000	N	N	N	20	500.0
319	36 8 37	118 26 6	7.0	1.50	1.0	.700	700	N	N	N	20	500.0
320	36 17 32	118 33 40	2.0	.70	1.0	.200	700	N	N	N	100	700.0
321	36 17 9	118 33 9	5.0	1.00	1.0	.300	1,000	N	N	N	70	700.0
322	36 16 48	118 32 18	7.0	1.00	.7	.700	700	N	N	N	100	300.0
323	36 16 2	118 31 58	5.0	1.00	1.0	.500	700	N	N	N	70	500.0
324	36 15 28	118 32 3	7.0	1.50	1.5	.500	700	N	N	N	30	500.0
325	36 14 44	118 32 34	10.0	1.00	.7	.300	700	N	N	N	50	700.0
326	36 11 4	118 15 57	3.0	1.00	1.5	.300	700	N	N	N	10	700.0
327	36 10 55	118 19 18	20.0	1.50	2.0	.700	1,000	N	N	N	10	300.0
327R	36 10 55	118 19 18	10.0	1.50	1.0	.500	700	N	N	N	10	300.0
327r1	36 10 55	118 19 18	7.0	.70	1.0	.300	700	N	N	N	20	300.0
327r2	36 10 55	118 19 18	7.0	.70	1.0	.300	700	N	N	N	15	300.0
328	36 16 56	118 31 51	5.0	1.00	2.0	.300	700	<.5	N	N	100	700.0
329	36 17 58	118 31 40	7.0	1.00	1.5	.700	1,000	<.5	N	N	30	1,000.0
330	36 17 29	118 31 17	10.0	1.00	1.5	1.000	700	10.0	N	N	20	500.0
331	36 16 42	118 31 6	10.0	1.00	1.5	.700	700	N	N	N	20	500.0
332	36 23 15	118 3 30	15.0	1.50	1.5	.700	1,000	N	N	N	20	700.0
333	36 22 23	118 2 7	10.0	.70	1.0	.700	1,000	5.0	N	N	30	1,000.0
334	36 24 24	118 6 14	10.0	1.00	1.0	.500	1,000	N	N	N	10	300.0
335	36 24 12	118 6 17	20.0	.70	1.5	>1.000	1,000	N	N	N	10	200.0
336	36 27 53	118 8 50	15.0	.50	1.0	.500	700	N	N	N	10	300.0
337	36 28 15	118 7 35	20.0	.50	1.0	.700	700	N	N	N	10	300.0
338	36 20 58	118 23 18	7.0	1.00	1.5	.700	700	N	N	N	20	500.0
339	36 18 15	118 24 28	10.0	2.00	2.0	.500	1,000	N	N	N	15	500.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
275	2.0	N	N	20	30	15	150	N	N	15	20
276	5.0	N	N	5	<10	<5	100	N	N	<5	50
277	5.0	N	N	5	N	5	70	N	N	<5	30
278	1.5	N	N	30	100	30	30	N	N	50	30
279	2.0	N	N	15	20	20	50	N	N	10	30
280	2.0	N	N	5	10	15	N	N	N	5	N
307	1.5	N	N	30	70	50	50	N	N	20	50
308	1.5	N	N	20	100	30	70	N	N	20	50
309	1.5	N	N	30	70	70	70	N	30	30	30
310	1.0	N	N	20	150	50	50	N	N	30	30
311	1.0	N	N	30	100	50	50	N	20	30	20
312	1.5	N	N	20	70	20	100	N	50	15	30
313	1.5	N	N	15	30	15	50	N	20	5	30
314	2.0	N	N	5	10	15	70	10	20	5	70
314R	2.0	N	N	7	15	15	70	10	20	5	50
314r1	2.0	N	N	10	20	15	70	7	<20	5	50
314r2	1.5	N	N	7	20	15	50	5	<20	5	50
315	2.0	N	N	7	10	20	70	7	N	5	70
316	1.5	N	N	20	100	30	70	N	20	30	30
317	1.5	N	N	30	300	50	70	N	N	50	30
318	1.5	N	N	20	70	100	70	N	N	20	30
319	1.5	N	N	15	100	20	100	N	N	20	70
320	2.0	N	N	7	<10	5	30	N	N	5	50
321	1.5	N	N	10	20	10	50	N	N	5	50
322	1.5	N	N	15	70	20	50	<5	20	30	30
323	1.5	N	N	15	100	20	50	15	20	30	50
324	1.5	N	N	15	70	20	50	N	20	20	70
325	1.5	N	N	15	50	15	20	N	20	15	50
326	1.5	N	N	10	30	15	30	N	20	15	50
327	1.0	N	N	20	50	20	100	N	30	15	30
327R	1.5	N	N	15	50	20	70	N	20	10	30
327r1	1.0	N	N	20	50	20	70	N	<20	7	20
327r2	1.5	N	N	15	30	20	70	N	<20	7	30
328	1.5	N	N	15	100	20	30	7	N	30	50
329	1.5	N	N	20	100	70	50	N	N	70	50
330	1.5	N	N	10	30	20	100	7	20	5	50
331	1.5	N	N	15	50	30	100	N	30	7	50
332	1.5	N	N	20	150	50	100	5	30	15	30
333	1.5	N	N	15	50	30	70	N	<20	5	30
334	1.5	N	N	15	30	15	100	N	30	5	30
335	1.5	N	N	20	20	20	200	N	50	5	10
336	1.5	N	N	15	30	50	150	N	20	<5	30
337	1.5	N	N	20	30	70	70	N	20	<5	30
338	1.5	N	N	15	70	20	70	N	20	15	50
339	1.5	N	N	20	50	20	50	N	N	15	20

Table 9--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
275	N	20	N	300	200	N	50	N	500	N
276	N	5	N	500	150	N	50	N	200	N
277	N	5	N	500	100	N	20	N	300	N
278	N	30	N	300	200	N	50	N	300	N
279	N	10	N	700	200	N	20	N	300	N
280	N	5	N	300	70	N	N	N	200	N
307	N	20	N	500	300	N	30	N	200	N
308	N	15	N	300	300	N	50	N	300	N
309	N	20	N	500	500	N	30	N	300	N
310	N	20	N	500	500	N	50	N	700	N
311	N	15	N	500	300	N	50	N	1,000	N
312	N	15	N	500	200	N	70	N	700	N
313	N	15	N	500	150	N	50	N	700	N
314	N	5	N	700	200	N	20	N	200	N
314R	N	5	N	500	150	N	20	N	300	N
314r1	N	5	N	500	150	<50	20	N	300	N
314r2	N	5	N	500	150	<50	15	N	300	N
315	N	7	N	700	300	N	20	N	200	N
316	N	15	N	500	300	N	70	N	300	N
317	N	15	N	500	300	N	50	N	300	N
318	N	20	N	300	300	N	30	N	500	N
319	N	10	N	700	200	N	30	N	500	N
320	N	7	N	300	100	N	20	N	500	N
321	N	10	N	200	150	N	30	N	700	N
322	N	15	N	150	200	N	30	N	700	N
323	N	15	N	200	200	<50	20	N	300	N
324	N	15	N	500	300	N	30	<200	300	<100
325	N	15	N	200	200	N	30	N	500	N
326	N	15	N	700	150	N	30	N	150	N
327	N	20	N	500	500	N	50	N	>1,000	<100
327R	N	20	N	500	300	N	50	N	300	N
327r1	N	20	N	300	300	N	50	N	700	<100
327r2	N	20	N	300	300	N	30	N	500	<100
328	N	20	N	500	200	N	30	300	300	N
329	N	20	N	1,000	300	N	30	1,000	300	N
330	N	10	N	500	300	N	50	N	700	N
331	N	15	N	700	300	<50	50	N	500	200
332	N	20	N	500	500	N	50	N	700	<100
333	N	15	N	300	300	N	50	N	700	N
334	N	20	N	200	300	N	50	N	500	500
335	N	20	N	150	500	N	150	N	>1,000	150
336	N	5	N	500	500	N	30	N	500	N
337	N	5	N	300	700	N	50	N	700	100
338	N	10	N	500	200	N	30	N	300	N
339	N	20	N	300	300	N	30	N	150	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
340	36 18 26	118 25 26	3.0	.70	.7	.200	500	N	N	N	N	700.0
341	36 18 24	118 26 40	5.0	1.00	.7	.300	1,000	N	N	N	20	500.0
342	36 18 37	118 24 46	5.0	1.00	1.0	.300	700	N	N	N	15	700.0
343	36 18 12	118 24 38	7.0	.50	1.0	.700	700	N	N	N	10	500.0
344	36 20 14	118 15 15	10.0	1.00	1.5	.500	700	N	N	N	10	300.0
344R	36 20 14	118 15 15	7.0	1.00	1.5	.500	700	N	N	N	10	300.0
344r1	36 14 14	118 15 15	3.0	.70	1.5	.300	700	N	N	N		
344r2	36 14 14	118 15 15	5.0	.70	1.5	.300	700	N	N	N	15	300.0
345	36 20 16	118 15 8	7.0	1.50	2.0	.500	700	N	N	N	10	300.0
346	36 20 30	118 15 35	15.0	1.00	2.0	1.000	700	N	N	N	15	500.0
347	36 20 55	118 15 42	7.0	1.50	2.0	.700	700	N	N	N	15	300.0
348	36 18 24	118 19 47	20.0	.70	1.5	.500	700	N	N	N	15	500.0
349	36 18 31	118 19 1	10.0	1.00	1.5	.700	700	N	N	N	15	700.0
350	36 23 59	118 8 53	10.0	.50	1.5	.500	1,000	N	N	N	15	300.0
351	36 23 21	118 10 15	15.0	.70	1.5	.700	700	N	N	N	15	300.0
352	36 20 52	118 6 51	5.0	.50	1.0	.300	1,000	N	N	N	20	500.0
353	36 21 32	118 7 25	5.0	.70	1.0	.500	1,500	N	N	N	15	300.0
354	36 22 6	118 8 17	5.0	.50	.7	.500	1,000	N	N	N	20	300.0
355	36 25 10	118 17 49	15.0	.70	1.5	.700	1,000	N	N	N	10	500.0
356	36 19 2	118 21 19	20.0	1.00	1.5	.700	700	N	N	N	10	500.0
357	36 19 12	118 21 44	15.0	.70	1.5	.500	1,000	N	N	N	10	500.0
358	36 19 28	118 20 47	>20.0	.70	1.5	.500	700	N	N	N	10	300.0
359	36 19 34	118 20 53	>20.0	.70	1.0	.500	1,000	N	N	N	10	300.0
360	36 20 16	118 20 39	15.0	1.00	1.5	.300	700	N	N	N	10	500.0
361	36 20 22	118 21 11	15.0	1.00	1.0	.200	700	N	N	N	10	700.0
362	36 24 4	118 17 10	10.0	1.00	1.5	.500	700	N	N	N	10	300.0
362R	36 24 4	118 17 10	20.0	.70	1.5	.700	700	N	N	N	10	300.0
362r1	36 24 4	118 17 10	15.0	.70	1.0	.500	700	N	N	N	10	300.0
362r2	36 24 4	118 17 10	10.0	.70	1.0	.500	700	N	N	N	10	300.0
363	36 24 25	118 17 4	15.0	.70	1.5	.500	700	N	N	N	10	300.0
364	36 23 39	118 17 9	10.0	.70	1.5	.300	700	N	N	N	10	300.0
365	36 23 10	118 17 25	20.0	.70	1.5	.500	700	N	N	N	10	300.0
366	36 19 11	118 19 23	10.0	1.00	1.5	.300	1,000	N	N	N	15	500.0
367	36 19 38	118 18 50	10.0	1.00	1.5	.300	700	N	N	N	15	700.0
368	36 23 24	118 13 54	15.0	1.00	2.0	.700	700	N	N	N	10	200.0
369	36 22 26	118 14 51	20.0	1.50	2.0	.500	700	N	N	N	10	500.0
370	36 27 34	118 7 26	15.0	1.00	1.5	.700	700	N	N	N	15	300.0
371	36 12 39	118 35 26	7.0	1.50	1.0	.500	500	N	N	N	30	500.0
372	36 12 7	118 34 49	7.0	1.50	1.5	.500	1,000	N	N	N	20	500.0
380	36 23 17	118 32 20	2.0	.50	.7	.200	700	N	N	N	20	300.0
381	36 23 11	118 31 56	5.0	.50	.7	.200	1,000	N	N	N	10	300.0
382	36 22 39	118 31 57	3.0	.30	.7	.300	700	N	N	N	15	200.0
383	36 21 48	118 31 9	7.0	.30	.7	.500	1,000	N	N	N	15	200.0
384	36 21 3	118 32 6	5.0	.30	.7	.300	700	N	N	N	20	300.0
384R	36 21 3	118 32 6	3.0	.30	.7	.300	700	N	N	N	15	300.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
340	2.0	N	N	N	15	5	70	5	N	5	30
341	1.5	N	N	5	30	10	70	N	<20	10	50
342	1.5	N	N	20	30	20	30	N	N	10	30
343	2.0	N	N	10	30	10	100	N	50	5	30
344	1.5	N	N	15	50	20	70	N	N	10	30
344R	1.5	N	N	15	15	15	50	N	N	10	30
344r1											
344r2	1.5	N	N	15	15	20	70	N	N	7	30
345	1.5	N	N	15	15	20	50	N	N	10	30
346	1.5	N	N	15	20	20	70	N	N	10	50
347	1.5	N	N	15	20	30	70	N	N	10	50
348	1.0	N	N	20	70	30	70	N	20	15	30
349	1.5	N	N	15	50	20	70	N	20	15	30
350	2.0	N	N	10	30	20	70	N	30	5	70
351	1.5	N	N	15	30	30	150	N	<20	5	70
352	2.0	N	N	10	10	20	50	N	N	7	70
353	2.0	N	N	10	10	50	70	N	N	7	70
354	2.0	N	N	10	15	30	70	N	20	10	70
355	1.0	N	N	15	50	50	100	N	20	10	30
356	1.0	N	N	20	50	30	100	N	20	15	20
357	1.5	N	N	20	50	30	100	N	<20	10	20
358	1.0	N	N	30	50	70	50	N	N	10	30
359	1.0	N	N	30	50	50	100	N	N	15	20
360	1.5	N	N	20	50	30	70	N	N	5	30
361	1.0	N	N	20	50	50	50	N	N	5	30
362	1.5	N	N	15	50	30	70	N	20	7	30
362R	1.0	N	N	20	50	50	100	N	20	10	30
362r1	1.0	N	N	20	70	70	100	N	<20	10	20
362r2	1.0	N	N	15	70	70	100	N	<20	15	20
363	1.5	N	N	15	50	30	100	N	<20	5	30
364	1.5	N	N	15	50	50	50	N	20	10	50
365	1.0	N	N	20	100	70	70	N	20	10	30
366	1.5	N	N	15	70	30	70	N	20	15	50
367	1.5	N	N	15	50	30	70	N	N	15	30
368	1.5	N	N	15	30	70	150	N	20	5	30
369	1.5	N	N	20	100	50	70	N	N	15	50
370	1.5	N	N	15	30	30	200	5	50	10	30
371	1.5	N	N	15	100	50	50	N	20	15	20
372	1.0	N	N	15	70	20	50	N	N	20	50
380	3.0	N	N	N	15	5	300	5	50	5	70
381	3.0	N	N	N	15	5	300	5	30	5	70
382	3.0	N	N	N	<10	<5	200	7	30	<5	70
383	2.0	N	N	N	10	<5	200	5	30	<5	50
384	2.0	N	N	N	20	10	200	5	30	5	70
384R	2.0	N	N	<5	15	10	200	7	30	5	50

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
340	N	10	N	150	100	N	20	N	150	N
341	N	20	N	200	150	N	50	N	200	N
342	N	15	N	200	200	N	30	N	100	N
343	N	15	10	200	150	N	70	N	700	N
344	N	30	N	700	300	N	30	N	500	N
344R	N	20	N	500	200	N	30	N	300	N
344r1										
344r2	N	20	N	500	200	N	20	N	200	<100
345	N	20	N	700	150	N	20	N	300	N
346	N	30	N	500	200	N	30	N	1,000	N
347	N	30	N	500	200	N	30	N	500	N
348	N	30	N	300	500	N	50	N	>1,000	N
349	N	30	N	500	300	N	50	N	1,000	N
350	N	10	N	700	300	N	30	N	500	N
351	N	10	N	700	300	N	30	N	700	150
352	N	7	N	700	150	N	20	N	300	N
353	N	10	N	700	150	N	15	N	200	N
354	N	10	N	200	150	N	15	N	300	N
355	N	15	N	500	300	N	50	N	500	200
356	N	20	N	300	700	N	50	N	>1,000	100
357	N	15	N	500	500	N	50	N	1,000	100
358	N	15	N	200	700	N	30	N	>1,000	N
359	N	15	N	200	1,000	N	50	N	>1,000	<100
360	N	15	N	300	700	N	30	N	>1,000	100
361	N	15	N	300	500	N	30	N	700	N
362	N	15	N	500	300	N	30	N	500	N
362R	N	15	N	300	500	N	50	N	700	150
362r1	N	15	N	300	700	N	30	N	500	100
362r2	N	15	N	300	700	N	30	N	700	100
363	N	15	N	500	300	N	30	N	700	150
364	N	15	N	500	300	N	30	N	500	N
365	N	15	N	500	500	N	30	N	>1,000	100
366	N	20	N	500	300	N	50	N	500	N
367	N	30	N	500	300	N	50	N	500	N
368	N	15	N	700	300	N	50	N	500	100
369	N	20	N	700	500	N	30	N	700	<100
370	N	20	N	500	200	N	70	N	700	N
371	N	20	<10	200	200	N	30	N	>1,000	N
372	N	20	N	200	200	N	30	N	300	N
380	N	20	15	100	70	N	100	N	300	<100
381	N	15	15	100	150	N	100	N	1,000	100
382	N	15	15	100	100	N	100	N	500	100
383	N	10	20	100	150	N	150	N	>1,000	<100
384	N	15	15	100	150	N	100	N	1,000	<100
384R	N	15	15	100	100	N	100	N	1,000	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
384r1	36 21 3	118 32 6	7.0	.30	.7	.300	1,000	N	N	N	20	300.0
384r2	36 21 3	118 32 6	7.0	.50	.7	.500	1,000	N	N	N	20	300.0
385	36 22 31	118 33 17	3.0	.70	.7	.200	700	N	N	N	20	500.0
386	36 23 36	118 33 24	3.0	1.00	1.0	.300	500	N	N	N	30	700.0
401	36 17 10	118 5 26	7.0	.50	.7	.300	1,500	N	N	N	15	300.0
402	36 17 43	118 4 7	5.0	1.00	2.0	.700	1,500	N	N	N	15	300.0
403	36 18 2	118 3 14	7.0	.20	1.0	.300	500	N	N	N	15	150.0
404	36 23 21	118 7 58	1.0	.20	1.5	.300	300	<.5	N	N	N	300.0
405	36 23 26	118 7 13	7.0	1.50	3.0	1.000	1,000	N	N	N	10	500.0
406	36 23 30	118 6 8	5.0	.70	2.0	.500	700	N	N	N	15	200.0
407	36 23 34	118 5 24	7.0	.70	2.0	.700	1,000	N	N	N	10	200.0
408	36 15 0	118 13 58	1.5	.50	.5	.150	1,000	N	N	N	70	100.0
409	36 13 57	118 14 30	3.0	1.50	3.0	.500	1,500	N	N	N	50	150.0
410	36 13 32	118 15 31	7.0	2.00	5.0	.700	2,000	N	N	N	10	200.0
411	36 13 36	118 15 35	7.0	1.50	5.0	.700	1,500	N	N	N	20	150.0
412	36 12 58	118 15 14	5.0	2.00	3.0	.500	2,000	N	N	N	30	300.0
413	36 12 6	118 15 16	2.0	1.00	2.0	.500	1,000	N	N	N	N	300.0
414	36 17 59	118 7 57	1.5	.50	1.5	.200	1,000	N	N	N	<10	200.0
415	36 18 9	118 7 53	1.5	.70	1.0	.300	700	N	N	N	20	300.0
416	36 18 2	118 9 34	2.0	.30	.7	.200	1,500	N	N	N	10	150.0
417	36 18 4	118 12 24	3.0	1.50	5.0	.500	1,000	N	N	N	N	500.0
418	36 18 8	118 12 26	5.0	3.00	7.0	1.000	1,500	N	N	N	15	700.0
419	36 18 4	118 13 19	3.0	1.50	5.0	.500	700	N	N	N	20	300.0
420	36 18 34	118 13 32	5.0	5.00	7.0	.700	1,500	N	N	N	20	500.0
421	36 23 3	118 7 47	7.0	1.50	2.0	.500	5,000	N	N	N	20	500.0
422	36 23 22	118 8 31	1.5	1.00	1.0	.300	500	N	N	N	N	200.0
423	36 25 13	118 8 15	3.0	1.50	1.0	.500	1,000	N	N	N	N	150.0
424	36 25 14	118 8 5	7.0	1.50	2.0	1.000	700	N	N	N	N	150.0
425	36 25 51	118 8 27	5.0	1.00	3.0	1.000	1,000	N	N	N	N	100.0
426	36 15 23	118 15 47	5.0	1.50	2.0	.500	1,000	N	N	N	10	200.0
427	36 14 40	118 16 10	15.0	3.00	10.0	.700	1,500	N	N	N	15	150.0
428	36 14 41	118 16 13	10.0	2.00	7.0	.500	1,500	N	N	N	N	300.0
429	36 13 58	118 16 20	7.0	2.00	7.0	.500	1,000	N	N	N	N	200.0
430	36 13 17	118 16 51	5.0	2.00	5.0	.500	1,500	N	N	N	10	200.0
431	36 12 5	118 16 16	5.0	2.00	7.0	.500	1,000	N	N	N	15	500.0
432	36 12 1	118 16 21	5.0	2.00	5.0	.500	1,500	N	N	N	10	500.0
433	36 12 10	118 17 51	7.0	3.00	7.0	.500	1,500	N	N	N	10	300.0
434	36 12 48	118 16 50	5.0	2.00	5.0	.500	1,500	N	N	N	10	500.0
435	36 13 7	118 17 25	10.0	2.00	7.0	.500	1,000	N	N	N	10	300.0
436	36 12 29	118 19 16	7.0	2.00	7.0	.500	1,000	N	N	N	10	300.0
437	36 12 30	118 19 59	7.0	5.00	10.0	.500	1,000	N	N	N	10	500.0
437R	36 12 30	118 19 59	10.0	3.00	7.0	.500	1,500	N	N	N	10	300.0
437R1	36 12 30	118 19 59	7.0	1.50	2.0	.500	700	N	N	N	10	200.0
437R2	36 12 30	118 19 59	5.0	1.00	3.0	.300	700	N	N	N	10	300.0
438	36 12 38	118 21 9	7.0	5.00	10.0	1.000	1,500	N	N	N	10	300.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
384r1	2.0	N	N	5	15	7	200	5	30	7	50
384r2	2.0	N	N	5	15	10	200	5	50	5	50
385	3.0	N	N	7	50	20	200	10	20	15	50
386	1.5	N	N	15	300	30	70	10	<20	50	70
401	1.5	N	N	15	10	10	50	N	<20	5	15
402	3.0	N	N	10	10	20	100	N	<20	<5	50
403	2.0	N	N	10	<10	15	70	N	N	<5	15
404	3.0	N	N	N	N	15	70	5	N	<5	70
405	3.0	N	N	15	10	20	100	5	20	5	50
406	2.0	N	N	10	N	20	70	7	N	<5	50
407	2.0	N	N	15	N	15	100	15	20	5	30
408	7.0	N	N	5	N	5	70	N	N	<5	100
409	5.0	N	N	30	20	20	N	N	N	10	30
410	1.5	N	N	20	15	20	50	N	N	5	20
411	2.0	N	N	30	20	20	50	N	N	7	20
412	2.0	N	N	30	20	20	70	N	N	15	30
413	1.5	N	N	10	10	15	200	N	N	<5	15
414	3.0	N	N	5	N	7	50	N	N	<5	50
415	5.0	N	N	5	10	15	50	N	N	5	70
416	2.0	N	N	7	<10	10	50	N	N	<5	20
417	2.0	N	N	10	15	10	70	N	20	5	30
418	2.0	N	N	20	70	20	100	N	N	20	50
419	2.0	N	N	10	20	10	70	N	<20	5	30
420	2.0	N	N	20	50	15	50	N	N	15	10
421	5.0	N	N	15	30	20	70	30	N	15	70
422	3.0	N	N	5	N	15	30	N	N	5	70
423	3.0	N	N	15	<10	15	100	N	<20	10	50
424	2.0	N	N	15	10	10	300	<5	20	7	20
425	2.0	N	N	15	10	10	200	<5	50	5	20
426	1.5	N	N	20	20	15	70	N	N	7	15
427	1.0	N	N	50	30	20	30	N	N	7	10
428	1.5	N	N	20	50	20	30	N	N	10	15
429	1.0	N	N	20	30	20	70	N	N	10	15
430	2.0	N	N	30	20	15	50	N	N	10	20
431	2.0	N	N	30	30	70	70	7	N	20	50
432	2.0	N	N	20	50	30	70	N	N	15	50
433	1.5	N	N	30	70	20	30	N	N	15	30
434	1.5	N	N	15	30	20	30	N	N	10	20
435	1.5	N	N	30	70	30	50	N	N	30	10
436	1.0	N	N	30	20	30	50	N	N	20	20
437	1.0	N	N	30	70	20	30	5	N	20	30
437R	1.0	N	N	30	70	20	100	N	N	20	30
437R1	1.0	N	N	30	50	20	30	N	N	20	15
437R2	1.5	N	N	30	30	30	30	N	N	15	15
438	1.5	N	N	50	100	50	30	N	N	30	20

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
384r1	N	15	15	<100	100	N	100	N	1,000	N
384r2	N	15	15	100	100	N	100	N	1,000	N
385	N	20	N	100	100	N	70	N	1,000	N
386	N	15	N	150	200	N	30	N	300	N
401	N	15	N	150	200	N	50	N	500	N
402	N	10	N	500	150	N	50	N	300	N
403	N	5	N	300	200	N	30	N	300	N
404	N	5	N	500	70	N	30	N	300	N
405	N	20	N	500	200	N	70	N	700	N
406	N	15	N	300	150	N	50	N	300	N
407	N	20	N	200	200	N	70	N	200	N
408	N	10	N	200	70	N	30	N	200	N
409	N	30	N	300	200	N	50	N	300	N
410	N	50	N	300	300	N	70	N	300	N
411	N	50	N	200	300	N	70	N	500	N
412	N	30	N	300	200	N	50	N	300	N
413	N	30	N	300	150	N	70	N	500	N
414	N	7	N	500	100	N	30	N	150	N
415	N	15	N	500	100	N	30	N	150	N
416	N	7	N	300	150	N	30	N	200	N
417	N	20	N	500	200	N	100	N	500	N
418	N	50	N	500	300	N	70	N	1,000	N
419	N	30	N	500	200	N	100	N	1,000	N
420	N	50	N	500	300	N	70	N	300	N
421	N	7	N	500	100	N	20	N	300	N
422	N	5	N	500	70	N	20	N	200	N
423	N	20	N	200	200	<50	50	N	300	N
424	N	30	N	200	300	N	100	N	>1,000	100
425	N	30	N	300	200	N	100	N	500	N
426	N	30	N	300	300	N	70	N	700	N
427	N	50	N	500	500	N	70	N	500	N
428	N	50	N	300	500	N	100	N	1,000	N
429	N	30	N	300	300	N	50	N	200	N
430	N	30	N	300	300	N	70	N	300	N
431	N	30	N	500	300	N	70	N	300	N
432	N	30	N	500	300	N	70	N	500	N
433	N	30	N	700	300	N	50	N	500	N
434	N	30	N	500	300	N	50	N	300	N
435	N	30	N	500	300	N	50	N	300	N
436	N	30	N	300	300	N	70	N	300	N
437	N	30	N	500	200	N	50	N	300	N
437R	N	30	N	500	300	N	70	N	200	N
437R1	N	20	N	300	200	N	30	N	200	N
437R2	N	20	N	300	150	N	50	N	200	N
438	N	30	N	500	300	N	70	N	300	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
439	36 11 36	118 20 46	15.0	2.00	5.0	1.000	1,500	N	N	N	<10	200.0
440	36 11 29	118 21 48	15.0	3.00	7.0	1.000	1,500	N	N	N	10	300.0
441	36 11 48	118 22 12	10.0	3.00	5.0	.700	1,500	N	N	N	100	200.0
442	36 12 19	118 22 34	5.0	5.00	7.0	.700	3,000	N	N	N	30	500.0
443	36 11 36	118 22 35	7.0	3.00	5.0	.500	1,500	N	N	N	20	200.0
444	36 19 30	118 16 50	3.0	1.00	2.0	.700	1,500	N	N	N	20	500.0
445	36 20 9	118 16 19	10.0	1.50	7.0	.500	1,000	N	N	N	10	300.0
446	36 20 50	118 16 20	5.0	2.00	10.0	.700	1,000	N	N	N	10	500.0
447	36 24 48	118 3 23	5.0	3.00	7.0	.700	1,000	N	N	N	10	300.0
448	36 23 24	118 2 45	15.0	1.00	2.0	1.000	1,500	N	N	N	10	200.0
449	36 21 30	118 2 27	5.0	2.00	20.0	.700	1,500	<.5	N	N	30	700.0
450	36 20 18	118 2 20	3.0	1.00	3.0	.300	1,500	<.5	N	N	10	700.0
451	36 19 52	118 2 16	2.0	1.00	2.0	.500	2,000	N	N	N	10	1,500.0
452	36 17 19	118 2 55	2.0	2.00	3.0	.500	700	N	N	N	N	200.0
453	36 16 57	118 2 56	10.0	3.00	5.0	.700	700	N	N	N	10	300.0
454	36 15 45	118 3 4	7.0	2.00	7.0	.700	1,500	N	N	N	10	700.0
455	36 11 39	118 32 38	10.0	3.00	7.0	.700	1,500	N	N	N	50	500.0
456	36 12 15	118 32 21	7.0	1.50	1.5	>1.000	1,500	N	N	N	30	300.0
457	36 12 26	118 32 14	5.0	2.00	7.0	.700	1,000	N	N	N	70	300.0
457R	36 12 26	118 32 14	7.0	2.00	5.0	1.000	1,500	N	N	N	150	500.0
457R1	36 12 26	118 32 14	3.0	1.00	1.5	.500	700	N	N	N	100	300.0
457R2	36 12 26	118 32 14	3.0	.70	1.5	.500	700	N	N	N	100	300.0
458	36 12 37	118 31 15	5.0	2.00	7.0	.700	700	N	N	N	50	200.0
459	36 12 17	118 30 13	3.0	1.50	3.0	.500	500	N	N	N	20	150.0
460	36 14 15	118 29 47	3.0	1.00	20.0	.200	>5,000	N	N	N	100	200.0
461	36 14 39	118 30 34	5.0	.20	.7	1.000	2,000	N	N	N	10	300.0
462	36 13 56	118 30 32	3.0	.70	5.0	.500	1,500	N	N	N	20	300.0
463	36 13 13	118 30 17	7.0	1.50	5.0	.700	1,000	N	N	N	50	300.0
464	36 12 57	118 29 57	3.0	1.00	5.0	.500	1,500	N	N	N	10	200.0
465	36 12 58	118 29 5	7.0	.30	.5	.700	500	N	N	N	N	150.0
466	36 13 23	118 28 49	10.0	.30	1.0	.500	700	N	N	N	N	200.0
467	36 15 56	118 28 1	5.0	1.50	1.5	.500	1,000	N	N	N	10	200.0
468	36 15 19	118 27 52	7.0	1.00	1.5	.700	700	N	N	N	N	200.0
468R	36 15 19	118 27 52	5.0	1.50	1.5	.500	1,000	N	N	N	N	200.0
468R1	36 15 19	118 27 52	3.0	1.00	1.5	.500	700	N	N	N	10	300.0
468R2	36 15 19	118 27 52	5.0	1.00	1.5	.500	700	N	N	N	10	200.0
469	36 14 35	118 26 51	5.0	1.50	2.0	.500	1,000	N	N	N	15	200.0
470	36 14 13	118 27 36	5.0	1.00	1.5	.500	700	N	N	N	N	300.0
471	36 13 23	118 27 5	10.0	1.00	1.5	.500	5,000	N	N	N	N	300.0
472	36 18 29	118 28 41	2.0	.70	.5	.300	1,000	N	N	N	10	200.0
473	36 18 2	118 29 9	3.0	.50	.5	.500	1,500	N	N	N	10	150.0
474	36 17 15	118 29 54	10.0	.70	.7	1.000	1,500	N	N	N	10	200.0
475	36 16 33	118 29 40	3.0	2.00	2.0	.700	1,000	N	N	N	10	300.0
476	36 16 6	118 29 32	15.0	3.00	5.0	1.000	1,000	N	N	N	N	300.0
477	36 15 40	118 30 41	2.0	1.50	3.0	.700	1,000	N	N	N	N	300.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
439	2.0	N	N	30	50	20	100	N	30	5	20
440	1.5	N	N	30	100	30	100	N	N	10	15
441	1.0	N	N	30	50	20	50	N	N	20	20
442	2.0	N	N	20	20	50	50	N	N	20	20
443	1.0	N	N	30	20	50	30	N	N	20	15
444	2.0	N	N	15	15	15	50	5	N	10	70
445	2.0	N	N	20	30	20	50	N	N	10	50
446	2.0	N	N	20	20	20	100	N	N	10	70
447	2.0	N	N	30	70	30	70	N	N	30	30
448	2.0	N	N	20	50	30	200	5	20	10	20
449	1.5	N	N	20	50	150	70	20	N	20	50
450	2.0	N	N	10	10	100	50	15	N	5	50
451	2.0	N	N	7	N	15	70	7	N	<5	70
452	2.0	N	N	15	10	10	100	N	N	7	30
453	2.0	N	N	20	50	20	150	N	N	20	50
454	1.5	N	N	30	70	20	70	N	N	20	30
455	2.0	N	N	20	50	10	30	N	<20	10	30
456	1.5	N	20	20	30	20	50	N	50	10	30
457	3.0	N	N	30	70	30	50	N	N	30	70
457R	2.0	N	N	30	70	30	70	N	20	20	50
457R1	1.5	N	N	15	30	30	30	N	N	15	30
457R2	1.5	N	N	10	20	20	30	N	N	15	20
458	2.0	N	N	30	50	20	70	N	<20	15	50
459	2.0	N	N	15	20	7	50	30	N	10	20
460	70.0	N	N	7	15	15	50	N	N	15	30
461	3.0	N	N	7	10	5	50	7	50	<5	50
462	7.0	N	N	7	15	15	150	N	N	<5	50
463	2.0	N	N	20	50	20	70	N	N	15	50
464	2.0	N	N	15	20	5	100	N	N	10	30
465	2.0	N	N	15	100	10	100	N	N	20	20
466	2.0	N	N	10	50	10	70	N	N	5	30
467	2.0	N	N	30	50	20	150	N	N	30	30
468	2.0	N	N	20	50	7	150	N	N	10	15
468R	2.0	N	N	15	20	7	30	N	N	10	15
468R1	1.5	N	N	15	30	10	50	N	20	7	20
468R2	1.5	N	N	10	30	10	30	N	<20	7	20
469	2.0	N	N	20	30	15	50	5	N	20	20
470	2.0	N	N	7	15	5	50	N	N	5	30
471	3.0	N	N	20	15	15	100	5	N	5	50
472	2.0	N	N	5	15	<5	150	N	N	N	50
473	2.0	N	N	7	15	<5	500	N	30	5	30
474	1.5	N	N	10	30	5	500	N	50	5	30
475	2.0	N	N	15	15	10	70	N	<20	5	50
476	2.0	N	N	20	50	15	70	N	20	10	30
477	3.0	N	N	10	10	N	70	N	N	5	30

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
439	N	30	N	300	500	N	100	N	500	N
440	N	30	N	300	500	N	100	N	700	N
441	N	50	N	300	300	N	70	N	200	N
442	N	30	N	500	200	N	70	N	200	N
443	N	30	N	200	300	N	50	N	500	N
444	N	20	N	500	150	N	50	N	300	N
445	N	30	N	700	300	N	50	N	1,000	N
446	N	30	N	1,000	200	N	50	N	300	N
447	N	30	N	300	200	N	50	N	200	N
448	N	20	N	200	300	N	100	N	1,000	N
449	N	20	N	500	200	N	50	N	100	N
450	N	15	N	300	150	N	50	N	200	N
451	N	15	N	300	150	N	70	N	300	N
452	N	20	N	700	150	N	50	N	200	N
453	N	30	N	700	300	N	50	N	500	N
454	N	30	N	500	300	N	50	N	500	N
455	N	30	N	500	300	N	50	N	300	N
456	N	30	N	300	300	N	70	200	>1,000	N
457	N	20	N	300	200	N	50	N	300	N
457R	N	30	N	300	300	N	70	<200	500	N
457R1	N	15	N	200	100	N	30	N	150	N
457R2	N	10	N	300	100	N	50	N	100	N
458	N	20	N	500	200	N	50	N	300	N
459	N	15	N	300	200	N	30	N	300	N
460	N	5	N	700	70	<50	20	N	200	N
461	N	10	N	300	150	<50	20	N	300	N
462	N	10	N	500	200	N	50	N	300	N
463	N	20	N	300	300	N	50	N	300	N
464	N	20	N	300	200	N	50	N	300	N
465	N	10	N	300	200	N	50	N	300	100
466	N	10	N	500	300	N	50	N	300	150
467	N	30	N	200	200	N	70	N	300	N
468	N	20	N	200	200	N	70	N	200	N
468R	N	20	N	200	200	N	50	N	300	N
468R1	N	15	N	200	150	N	50	N	150	N
468R2	N	15	N	200	150	N	70	N	200	N
469	N	20	N	200	200	N	50	N	300	N
470	N	15	N	300	150	N	50	N	500	N
471	N	10	N	500	100	N	50	N	300	N
472	N	10	N	100	70	N	70	200	30	N
473	N	30	N	<100	100	N	150	N	1,000	N
474	N	30	N	100	150	N	150	N	>1,000	N
475	N	20	N	500	150	N	70	N	700	N
476	N	20	N	300	300	N	70	N	700	N
477	N	20	N	300	150	N	70	N	700	N

Table 9--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
478	36 14 3	118 23 41	2.0	1.00	1.5	.300	700	N	N	N	50	300.0
479	36 14 29	118 23 29	7.0	1.50	2.0	.300	700	N	N	N	15	150.0
480	36 14 6	118 22 24	3.0	2.00	2.0	.500	1,000	N	N	N	N	200.0
481	36 12 47	118 26 41	3.0	1.00	1.0	.700	700	N	N	N	15	200.0
482	36 20 4	118 11 58	3.0	1.50	7.0	1.000	1,000	N	N	N	10	200.0
483	36 20 18	118 10 56	5.0	1.00	5.0	.700	1,000	N	N	N	10	200.0
484	36 20 2	118 10 54	7.0	.30	1.0	.700	500	N	N	N	10	100.0
485	36 22 56	118 15 46	>20.0	.70	1.5	.300	700	N	N	N	20	200.0
486	36 22 17	118 18 15	5.0	1.50	1.5	.500	700	N	N	N	15	300.0
487	36 22 15	118 19 13	>20.0	.70	1.0	.500	700	N	N	N	15	150.0
488	36 22 44	118 19 49	10.0	.70	1.0	.300	500	N	N	N	10	200.0
601	36 25 38	118 19 40	3.0	2.00	7.0	.700	1,500	N	N	N	10	300.0
602	36 25 16	118 19 17	5.0	1.50	3.0	.300	500	N	N	N	15	200.0
603	36 24 20	118 19 5	7.0	.50	1.0	.300	300	N	N	N	15	200.0
604R	36 24 22	118 19 5	15.0	1.00	2.0	.700	700	N	N	N	10	300.0
604R1	36 24 22	118 19 5	7.0	.70	1.5	.300	500	N	N	N	<10	200.0
604R2	36 24 22	118 19 5	7.0	.50	1.0	.300	300	N	N	N	10	150.0
605	36 24 19	118 19 2	10.0	.50	1.0	.500	300	N	N	N	15	150.0
606	36 26 52	118 13 49	2.0	.10	.7	.200	300	N	N	N	N	100.0
607	36 26 32	118 14 43	1.5	.20	1.5	.300	500	N	N	N	N	150.0
608	36 27 20	118 15 30	10.0	.20	1.0	.500	1,000	N	N	N	10	100.0
609	36 27 18	118 15 38	1.0	.15	1.0	.500	1,500	N	N	N	N	100.0
610	36 26 54	118 15 26	5.0	.20	1.5	.700	1,000	N	N	N	<10	150.0
611	36 26 40	118 15 30	3.0	.15	.7	.300	500	N	N	N	N	100.0
612	36 26 11	118 15 15	7.0	.20	1.0	.700	700	N	N	N	N	200.0
613	36 28 56	118 10 34	1.5	.20	1.0	.500	200	N	N	N	N	150.0
614	36 28 44	118 8 37	10.0	.30	1.0	.700	500	N	N	N	<10	200.0
615	36 28 38	118 8 41	3.0	.30	.7	.500	500	N	N	N	N	150.0
616	36 28 30	118 7 10	10.0	.20	1.5	.700	700	N	N	N	<10	200.0
617	36 26 37	118 9 39	15.0	.15	1.5	1.000	1,000	N	N	N	10	150.0
618	36 20 34	118 5 11	1.5	.50	.7	.200	700	1.5	N	N	30	300.0
619	36 20 58	118 4 10	3.0	.30	.7	.300	700	N	N	N	10	300.0
619R	36 20 58	118 4 10	3.0	.30	.5	.300	700	N	N	N	N	300.0
619R1	36 20 58	118 4 10	3.0	.50	.5	.300	1,000	N	N	N	N	500.0
619R2	36 20 58	118 4 10	3.0	.50	.7	.300	1,000	N	N	N	N	500.0
620	36 20 50	118 4 13	2.0	.20	.7	.300	300	<.5	N	N	N	200.0
621	36 20 41	118 3 22	7.0	3.00	2.0	.700	1,000	.5	N	N	10	300.0
622	36 20 48	118 14 25	5.0	1.50	1.5	.500	700	N	N	N	<10	200.0
623	36 20 50	118 13 33	20.0	1.50	2.0	.700	1,000	N	N	N	<10	200.0
624	36 20 36	118 12 46	3.0	.50	.7	.300	500	N	N	N	10	100.0
625	36 21 43	118 12 6	3.0	.50	1.0	.700	500	N	N	N	<10	150.0
626	36 21 7	118 12 18	3.0	.70	1.5	.700	700	N	N	N	<10	150.0
627	36 20 5	118 11 58	7.0	1.50	3.0	.700	700	N	N	N	<10	300.0
628	36 24 8	118 12 57	3.0	.30	1.0	.500	300	N	N	N	N	100.0
629	36 23 38	118 13 1	15.0	.30	.7	.500	500	N	N	N	10	100.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
478	1.5	N	N	10	15	10	150	N	<20	7	30
479	1.0	N	N	20	30	20	50	N	N	20	20
480	1.0	N	N	30	15	20	50	N	N	15	20
481	2.0	N	N	10	10	10	70	N	N	10	20
482	2.0	N	N	10	20	15	200	N	N	10	20
483	2.0	N	N	7	<10	15	150	N	N	5	20
484	1.5	N	N	7	<10	15	150	N	N	<5	20
485	1.0	N	N	50	150	70	70	<5	<20	30	20
486	1.5	N	N	20	50	15	70	5	<20	20	50
487	1.0	N	N	30	150	100	100	<5	<20	20	20
488	1.0	N	N	20	70	20	70	<5	N	15	20
601	2.0	N	N	15	20	30	100	<5	<20	15	70
602	1.5	N	N	15	20	20	50	N	N	10	30
603	1.0	N	N	15	30	30	50	N	N	10	20
604R	1.0	N	N	20	70	50	150	N	<20	7	30
604R1	1.5	N	N	7	30	30	50	N	<20	5	30
604R2	1.5	N	N	7	20	30	50	N	<20	5	15
605	1.0	N	N	15	50	50	70	N	<20	10	15
606	3.0	N	N	5	10	15	70	N	N	5	30
607	2.0	N	N	5	N	10	200	N	<20	5	50
608	2.0	N	N	10	20	20	500	N	20	<5	30
609	2.0	N	N	N	N	5	70	N	<20	<5	50
610	2.0	N	N	7	10	20	100	N	<20	<5	70
611	1.5	N	N	5	10	15	70	N	N	5	30
612	1.0	N	N	7	15	15	100	N	N	5	30
613	1.0	N	N	<5	N	10	200	N	N	<5	30
614	1.5	N	N	15	15	20	200	N	<20	5	30
615	1.5	N	N	10	10	30	70	N	<20	<5	30
616	1.0	N	N	15	15	30	200	N	<20	5	20
617	1.0	N	N	10	15	20	200	N	<20	5	30
618	5.0	N	N	5	15	150	70	7	<20	5	100
619	2.0	N	N	7	15	200	70	30	N	7	50
619R	1.5	N	N	7	15	300	50	50	N	10	50
619R1	1.5	N	N	7	15	150	50	70	N	7	30
619R2	1.5	N	N	5	10	150	50	50	N	5	30
620	1.5	N	N	<5	10	30	50	30	N	5	30
621	1.5	N	N	15	20	100	70	20	N	10	50
622	1.5	N	N	20	15	20	50	N	N	15	30
623	1.5	N	N	30	70	50	150	N	<20	10	30
624	1.5	N	N	15	10	20	50	N	N	7	20
625	2.0	N	N	10	10	50	100	<5	<20	5	50
626	1.5	N	N	15	10	20	100	<5	<20	5	30
627	1.5	N	N	15	70	30	200	N	N	10	30
628	1.5	N	N	7	10	30	70	N	N	5	20
629	1.0	N	N	20	50	50	100	N	N	10	15

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
478	N	15	N	300	150	N	50	N	300	N
479	N	20	N	150	300	N	50	N	300	N
480	N	20	N	200	200	N	30	N	200	N
481	N	10	N	200	100	N	30	N	300	N
482	N	20	N	500	200	N	70	N	300	N
483	N	10	N	500	150	N	50	N	500	N
484	N	7	N	200	200	N	50	N	300	N
485	N	15	N	300	500	N	50	N	>1,000	100
486	N	20	N	500	200	N	50	N	200	<100
487	N	20	N	200	300	N	50	N	>1,000	150
488	N	10	N	300	300	N	30	N	300	N
601	N	20	N	700	200	N	50	N	150	N
602	N	15	N	500	200	N	20	N	150	N
603	N	15	N	300	200	N	30	N	300	N
604R	N	20	N	500	300	N	50	N	500	150
604R1	N	7	N	300	200	N	30	N	200	<100
604R2	N	5	N	200	200	N	15	N	100	N
605	N	15	N	200	300	N	50	N	500	<100
606	N	<5	N	200	100	N	10	N	100	N
607	N	7	N	300	100	N	20	N	100	<100
608	N	10	N	200	200	N	50	N	200	<100
609	N	7	N	300	70	N	30	N	150	<100
610	N	10	N	300	200	N	50	N	200	100
611	N	7	N	200	150	N	15	N	150	<100
612	N	7	N	300	200	N	50	N	200	N
613	N	5	N	300	100	N	20	N	200	N
614	N	10	N	300	200	N	50	N	300	N
615	N	7	N	300	100	N	30	N	300	N
616	N	10	N	500	200	N	50	N	300	N
617	N	10	N	300	300	N	70	N	200	N
618	N	5	N	200	50	N	20	N	200	N
619	N	7	N	200	150	N	30	N	300	N
619R	N	7	N	150	150	N	30	N	200	N
619R1	N	7	N	200	150	N	20	N	200	N
619R2	N	7	N	200	150	N	30	N	300	N
620	N	<5	N	300	100	N	10	N	100	N
621	N	15	N	300	200	N	50	N	200	N
622	N	20	N	300	200	N	15	N	300	N
623	N	20	N	300	500	N	50	N	700	<100
624	N	10	N	300	100	N	15	N	200	N
625	N	15	N	500	150	N	50	N	500	N
626	N	15	N	300	150	N	50	N	300	<100
627	N	20	N	500	200	N	70	N	300	500
628	N	7	N	300	150	N	30	N	200	N
629	N	10	N	200	300	N	50	N	700	<100

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
630	36 22 36	118 13 11	3.0	.20	.5	.300	500	N	N	N	N	100.0
631	36 22 42	118 12 18	15.0	.30	1.0	.700	500	N	N	N	10	150.0
632	36 23 17	118 12 29	5.0	.30	1.0	.300	500	N	N	N	N	150.0
633	36 19 13	118 24 1	5.0	.50	.7	.300	200	N	N	N	N	200.0
634	36 18 42	118 23 56	7.0	1.00	1.0	.500	700	N	N	N	N	300.0
635	36 17 17	118 26 2	2.0	.15	.3	.200	500	N	N	N	N	200.0
636	36 17 14	118 26 1	7.0	1.50	1.0	.700	1,000	N	N	N	N	200.0
637	36 16 26	118 25 59	7.0	1.50	1.0	.500	1,000	N	N	N	N	200.0
638	36 17 28	118 26 36	15.0	.20	.5	.700	1,500	N	N	N	10	200.0
639	36 18 24	118 26 43	5.0	.20	.3	.300	3,000	N	N	N	15	200.0
640	36 25 57	118 21 27	3.0	.70	1.0	.300	700	N	N	N	20	150.0
641	36 24 42	118 20 36	20.0	.50	.7	.500	700	N	N	N	10	150.0
642	36 23 48	118 20 14	7.0	.70	.7	.300	700	N	N	N	10	100.0
643	36 23 36	118 19 52	15.0	.70	1.0	.500	700	N	N	N	10	200.0
644	36 23 27	118 19 38	15.0	.50	1.0	.500	500	N	N	N	10	150.0
645	36 21 44	118 20 28	10.0	1.00	1.5	.700	1,000	N	N	N	15	300.0
646	36 20 58	118 21 15	10.0	1.50	2.0	.500	1,500	N	N	N	15	300.0
647	36 21 39	118 21 30	15.0	.50	.5	.300	1,000	N	N	N	15	100.0
648	36 21 33	118 22 28	7.0	1.50	10.0	.300	700	N	N	N	10	300.0
649	36 21 53	118 21 14	1.0	1.00	5.0	.300	500	N	N	N	N	200.0
650	36 24 4	118 17 10	10.0	.70	2.0	.300	700	N	N	N	15	150.0
650R	36 24 4	118 17 10	15.0	1.50	5.0	.700	1,000	N	N	N	10	300.0
650R1	36 24 4	118 17 10	10.0	.70	1.5	.300	700	N	N	N	10	200.0
650R2	36 24 4	118 17 10	10.0	.70	1.5	.500	700	N	N	N	10	200.0
651	36 23 14	118 17 7	10.0	.50	2.0	.500	700	N	N	N	10	100.0
652	36 23 10	118 17 25	15.0	.70	5.0	.500	700	N	N	N	10	300.0
653	36 22 44	118 17 12	20.0	.70	1.5	.300	1,000	N	N	N	10	150.0
654	36 22 3	118 17 39	>20.0	.50	.7	.300	500	N	N	N	N	70.0
655	36 22 40	118 16 31	>20.0	1.00	1.0	.500	700	N	N	N	N	100.0
656	36 22 35	118 15 52	10.0	1.00	1.5	.500	700	N	N	N	N	100.0
657	36 23 28	118 33 59	10.0	1.50	.7	.200	1,500	2.0	7,000	N	100	300.0
658	36 23 29	118 34 6	5.0	2.00	.7	.300	700	.5	N	N	150	1,000.0
659	36 23 0	118 34 0	7.0	1.50	1.0	.200	1,500	1.0	N	N	100	1,500.0
660	36 22 54	118 33 50	7.0	1.50	.7	.300	1,000	.5	500	N	150	1,000.0
661	36 22 3	118 32 59	5.0	.70	.7	.300	700	<.5	<200	N	100	700.0
662	36 21 14	118 33 9	5.0	.70	.7	.300	1,000	<.5	<200	N	150	700.0
663	36 20 57	118 33 17	7.0	.70	1.0	.500	700	N	N	N	15	300.0
664	36 20 49	118 33 33	10.0	1.00	3.0	.700	1,000	N	N	N	10	300.0
665	36 21 12	118 34 29	2.0	1.00	2.0	.300	500	N	N	N	N	150.0
681	36 19 57	118 31 56	7.0	<.02	3.0	.002	200	N	500	N	N	200.0
687	36 19 50	118 33 24	5.0	2.00	1.5	.700	700	N	N	N	10	500.0
688	36 19 8	118 32 51	7.0	1.00	1.0	.500	700	N	N	N	10	300.0
689	36 19 8	118 32 57	7.0	1.00	1.0	.700	1,000	N	N	N	70	300.0
690	36 18 0	118 32 8	5.0	1.50	1.0	.500	1,000	N	N	N	50	700.0
691	36 17 56	118 32 7	2.0	.70	1.0	.300	500	<.5	N	N	150	500.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
630	1.0	N	N	15	10	15	50	N	N	5	20
631	1.5	N	N	15	15	50	200	N	<20	5	30
632	2.0	N	N	7	10	20	70	N	N	<5	30
633	1.5	N	N	15	10	30	N	N	N	7	15
634	1.5	N	N	15	20	30	70	N	<20	10	20
635	3.0	N	N	<5	10	7	70	N	20	<5	50
636	1.5	N	N	15	20	20	70	N	<20	5	30
637	1.5	N	N	20	70	15	50	N	20	20	20
638	2.0	N	N	5	15	<5	500	N	<20	<5	30
639	3.0	N	N	5	20	15	70	5	<20	5	30
640	2.0	N	N	10	10	20	70	N	N	10	50
641	1.0	N	N	30	70	50	100	N	<20	15	30
642	1.5	N	N	15	20	30	50	N	N	7	30
643	1.5	N	N	20	50	70	100	N	20	10	30
644	1.5	N	N	20	70	50	100	N	<20	10	20
645	1.5	N	N	20	30	15	100	N	20	10	30
646	3.0	N	N	20	30	15	50	N	<20	7	70
647	2.0	N	N	30	50	20	70	N	<20	15	15
648	2.0	N	N	15	150	15	100	N	<20	30	15
649	1.5	N	N	5	50	<5	50	<5	N	7	20
650	1.5	N	N	15	20	15	70	<5	N	5	30
650R	2.0	N	N	30	50	20	100	N	<20	15	50
650R1	1.0	N	N	15	70	30	50	N	N	30	15
650R2	1.0	N	N	15	30	50	70	N	N	15	15
651	2.0	N	N	15	20	20	70	N	N	5	20
652	2.0	N	N	15	30	30	50	N	N	5	30
653	1.0	N	N	30	70	100	70	N	N	15	30
654	1.0	N	N	30	70	70	70	N	N	20	20
655	1.0	N	N	30	100	150	100	N	N	20	30
656	1.5	N	N	20	50	20	50	N	N	10	30
657	2.0	<10	N	20	100	300	N	7	N	70	300
658	1.5	N	N	20	100	20	N	<5	N	50	70
659	5.0	N	N	30	70	150	N	15	N	70	100
660	3.0	N	N	20	150	100	30	7	N	50	100
661	2.0	N	N	15	70	50	200	5	N	50	50
662	3.0	N	N	15	70	30	50	7	N	50	50
663	2.0	N	N	20	50	15	50	<5	<20	15	70
664	2.0	N	N	15	50	10	50	N	<20	7	50
665	2.0	N	N	15	10	5	50	N	N	7	30
681	10.0	N	N	N	N	N	N	N	N	N	N
687	1.5	N	N	30	100	15	50	<5	<20	20	30
688	1.5	N	N	20	100	15	70	7	20	15	30
689	1.5	N	N	15	70	15	100	7	<20	10	30
690	1.5	N	N	15	70	20	50	5	20	15	50
691	1.5	N	N	10	50	15	50	7	<20	20	30

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
630	N	7	N	200	150	N	15	N	200	N
631	N	15	N	300	300	N	70	N	1,000	N
632	N	5	N	500	150	N	20	N	150	100
633	N	7	N	300	150	N	<10	N	150	N
634	N	5	N	300	200	N	50	N	200	N
635	N	15	N	<100	100	N	50	N	300	N
636	N	20	N	150	200	N	70	N	500	N
637	N	20	N	150	200	N	50	N	500	N
638	N	20	N	N	150	N	100	N	500	N
639	N	15	N	N	50	N	50	N	500	N
640	N	10	N	300	200	N	20	N	200	N
641	N	7	N	200	500	N	50	N	700	100
642	N	7	N	300	300	N	30	N	300	100
643	N	10	N	300	500	N	50	N	1,000	500
644	N	10	N	300	500	N	50	N	700	N
645	N	20	N	300	300	N	100	N	700	100
646	N	20	N	500	300	N	50	N	500	N
647	N	10	N	200	300	N	50	N	700	100
648	N	15	N	500	300	N	70	N	500	N
649	N	10	N	300	100	N	30	N	300	N
650	N	10	N	300	200	N	30	N	300	150
650R	N	20	N	700	300	N	50	N	300	N
650R1	N	10	N	300	300	N	20	N	300	<100
650R2	N	10	N	300	300	N	20	N	500	<100
651	N	15	N	300	300	N	50	N	700	150
652	N	10	N	500	300	N	30	N	500	N
653	N	15	N	300	500	N	50	N	700	<100
654	N	5	N	200	500	N	30	N	700	150
655	N	15	N	500	500	N	50	N	>1,000	<100
656	N	10	N	300	300	N	20	N	300	N
657	100	7	N	150	100	N	30	500	150	N
658	N	20	N	200	200	N	30	200	100	N
659	N	10	N	300	100	N	50	300	150	N
660	N	15	N	200	200	N	30	300	150	N
661	N	10	N	150	150	N	30	200	200	N
662	N	10	N	150	100	N	50	300	200	N
663	N	15	N	200	200	N	70	N	300	N
664	N	20	N	500	200	N	70	N	500	N
665	N	20	N	200	100	N	50	N	300	N
681	N	5	N	100	20	N	70	N	N	N
687	N	30	N	300	200	N	70	N	300	N
688	N	20	N	150	200	N	70	N	300	N
689	N	20	N	200	200	N	70	N	700	N
690	N	20	N	200	200	N	70	N	500	N
691	N	15	N	300	150	<50	100	N	300	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
692	36 17 16	118 31 57	5.0	1.00	1.0	.700	700	N	N	N	50	500.0
693	36 15 56	118 31 41	3.0	1.00	1.5	.700	1,000	N	N	N	50	500.0
694	36 18 4	118 37 3	3.0	3.00	3.0	.700	1,000	N	N	N	70	700.0
695	36 17 35	118 37 6	7.0	1.50	1.5	.700	1,000	N	N	N	30	700.0
696	36 17 34	118 37 8	5.0	.50	.7	1.000	700	N	N	N	N	300.0
697	36 16 46	118 35 32	3.0	.70	1.0	.700	700	N	N	N	70	500.0
698	36 17 3	118 36 16	7.0	.50	1.0	>1.000	1,500	N	N	N	70	500.0
699	36 17 0	118 36 19	3.0	.50	.5	.200	500	N	N	N	70	150.0
700	36 16 42	118 37 31	1.5	.20	.5	.150	500	N	N	N	N	150.0
701	36 16 20	118 37 21	2.0	.15	.5	.200	500	N	N	N	N	150.0
702	36 14 32	118 39 14	2.0	1.00	.5	.200	700	N	N	N	20	100.0
703	36 14 22	118 38 56	5.0	1.50	2.0	.500	1,000	.5	N	N	100	200.0
800	36 21 43	118 13 36	5.0	.20	.5	.200	500	N	N	N	10	100.0
801	36 21 32	118 14 38	15.0	2.00	3.0	.500	700	N	N	N	10	200.0
802	36 21 16	118 14 6	2.0	2.00	7.0	.300	700	N	N	N	10	200.0
803	36 20 0	118 14 4	7.0	1.50	2.0	.300	700	N	N	N	10	200.0
804	36 19 36	118 14 34	15.0	1.00	2.0	.700	1,500	N	N	N	10	200.0
804R	36 19 36	118 14 34	5.0	.70	1.0	.300	500	N	N	N	N	150.0
804R1	36 19 36	118 14 34	3.0	1.00	1.5	.300	500	N	N	N	<10	300.0
804R2	36 19 36	118 14 34	5.0	.70	1.5	.500	700	N	N	N	10	300.0
805	36 18 55	118 14 10	10.0	1.00	1.0	.500	1,000	N	N	N	10	300.0
806	36 19 27	118 13 8	7.0	2.00	7.0	.700	1,500	N	N	N	10	200.0
807	36 24 37	118 7 26	5.0	1.50	7.0	1.000	1,000	N	N	N	10	150.0
808	36 24 45	118 7 21	10.0	1.00	2.0	.700	1,500	N	N	N	10	150.0
809	36 25 10	118 6 9	1.5	.70	2.0	.500	500	N	N	N	N	100.0
810	36 25 59	118 5 24	7.0	.30	1.5	.700	700	N	N	N	15	100.0
811	36 26 6	118 5 30	5.0	1.50	2.0	.700	1,000	N	N	N	20	300.0
812	36 16 19	118 16 5	2.0	1.00	2.0	.500	700	N	N	N	N	500.0
813	36 16 56	118 16 21	20.0	.20	.3	.500	1,500	N	N	N	N	200.0
814	36 16 27	118 16 30	7.0	.50	.7	.700	1,500	N	N	N	10	300.0
815	36 15 46	118 17 12	5.0	1.00	1.5	.300	1,000	N	N	N	10	300.0
816	36 14 51	118 17 43	10.0	2.00	3.0	.700	1,500	N	N	N	10	500.0
817	36 14 3	118 17 59	2.0	1.50	1.0	.300	1,000	N	N	N	15	700.0
818	36 15 18	118 19 4	7.0	1.50	3.0	.500	1,000	N	N	N	10	300.0
819	36 14 49	118 19 50	7.0	1.00	2.0	.500	1,000	N	N	N	10	200.0
820	36 14 50	118 20 2	3.0	1.00	2.0	.500	700	N	N	N	N	300.0
821	36 15 19	118 22 32	7.0	1.00	2.0	.500	500	N	N	N	10	100.0
822	36 15 50	118 22 4	7.0	1.50	1.0	.700	700	N	N	N	<10	100.0
823	36 15 5	118 22 4	15.0	1.50	1.5	1.000	1,500	N	N	N	<10	150.0
824	36 14 34	118 22 41	10.0	1.50	1.5	.700	700	N	N	N	10	150.0
825	36 14 20	118 22 34	5.0	1.50	1.0	.500	1,000	N	N	N	<10	150.0
826	36 14 3	118 21 52	3.0	1.50	1.5	.700	1,000	N	N	N	10	200.0
827	36 13 16	118 21 2	15.0	1.50	2.0	.700	1,000	N	N	N	10	300.0
828	36 13 21	118 25 3	3.0	1.00	.7	.500	700	N	N	N	15	200.0
829	36 11 50	118 25 31	2.0	1.50	1.5	.500	1,000	N	N	N	15	200.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
692	1.5	N	N	15	70	15	70	5	20	20	30
693	1.5	N	N	15	70	20	70	<5	30	20	30
694	1.5	N	N	20	100	20	50	N	<20	30	50
695	1.5	N	N	15	50	20	50	N	20	15	30
696	1.5	N	N	15	30	20	30	5	20	10	20
697	1.5	N	N	10	50	15	50	<5	<20	10	30
698	1.5	N	N	10	50	30	50	<5	20	10	30
699	2.0	N	N	10	70	15	100	<5	20	30	20
700	10.0	N	N	N	15	10	70	N	20	7	70
701	5.0	N	N	N	10	5	50	<5	<20	5	70
702	5.0	<10	N	10	30	10	30	70	N	20	200
703	3.0	N	N	20	150	20	100	N	N	100	50
800	1.0	N	N	10	10	15	50	N	N	5	10
801	1.0	N	N	30	70	50	100	N	<20	10	20
802	1.5	N	N	15	15	15	70	5	N	7	50
803	1.0	N	N	20	30	20	70	N	<20	10	30
804	1.0	N	N	30	70	50	100	N	20	15	30
804R	1.5	N	N	15	15	15	50	N	N	10	15
804R1	1.0	N	N	10	15	15	70	N	N	7	15
804R2	1.0	N	N	7	30	15	70	N	N	7	15
805	1.5	N	N	15	50	20	70	N	20	7	30
806	1.0	N	N	20	70	20	150	N	20	15	20
807	1.5	N	N	15	15	10	500	<5	30	5	20
808	1.5	N	N	20	20	20	200	N	50	7	15
809	2.0	N	N	5	N	5	150	<5	20	<5	15
810	2.0	N	N	10	10	10	300	N	30	5	10
811	2.0	N	N	15	15	20	150	5	30	5	30
812	1.5	N	N	7	10	10	70	N	<20	<5	15
813	1.0	N	N	30	20	15	100	N	30	7	10
814	1.5	N	N	10	10	10	150	N	30	5	20
815	1.5	N	N	15	20	20	50	N	<20	7	15
816	1.0	N	N	30	70	50	70	N	<20	10	20
817	1.5	N	N	15	15	20	70	<5	N	10	50
818	2.0	N	N	20	30	30	70	<5	<20	15	20
819	1.5	N	N	20	20	30	70	<5	N	15	15
820	1.0	N	N	15	15	15	50	N	N	7	15
821	1.0	N	N	20	20	20	50	N	N	15	10
822	1.5	N	N	20	70	30	70	N	N	20	10
823	1.5	N	N	30	100	30	150	N	30	20	15
824	1.0	N	N	30	70	20	70	N	20	20	10
825	2.0	N	N	20	20	20	70	N	20	10	10
826	2.0	N	N	20	15	15	70	7	30	10	30
827	1.5	N	N	30	70	20	70	N	N	10	20
828	2.0	N	N	15	15	20	50	N	N	5	30
829	2.0	N	N	15	15	10	70	<5	<20	<5	20

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
692	N	20	N	200	200	50	70	N	1,000	N
693	N	20	N	200	200	N	70	N	300	N
694	N	30	N	300	200	N	70	N	300	N
695	N	20	N	150	200	N	70	N	700	N
696	N	15	N	100	200	N	70	N	300	N
697	N	20	N	150	150	N	70	N	300	N
698	N	30	N	150	200	N	70	N	700	N
699	N	7	10	N	100	N	50	N	200	N
700	N	5	<10	N	30	N	150	N	200	N
701	N	7	<10	N	30	N	150	N	200	N
702	N	10	N	N	50	N	70	N	150	N
703	N	20	N	200	150	N	70	<200	200	N
800	N	7	N	150	100	N	10	N	200	N
801	N	30	N	500	500	N	50	N	500	<100
802	N	20	N	1,000	200	N	30	N	150	N
803	N	30	N	300	300	N	50	N	700	N
804	N	20	N	300	300	N	70	N	700	150
804R	N	15	N	300	200	N	50	N	300	N
804R1	N	15	N	300	200	N	30	N	300	N
804R2	N	15	N	300	200	N	30	N	300	N
805	N	15	N	300	300	N	70	N	500	N
806	N	50	N	500	300	N	100	N	>1,000	N
807	N	30	20	200	200	N	200	N	>1,000	100
808	N	30	N	200	300	N	100	N	>1,000	200
809	N	15	N	300	100	N	70	N	500	N
810	N	20	N	150	200	N	150	N	1,000	<100
811	N	20	N	200	200	N	100	N	1,000	N
812	N	20	N	300	150	N	70	N	500	N
813	N	20	N	100	300	N	100	N	1,000	N
814	N	20	N	200	200	N	100	N	1,000	N
815	N	20	N	300	200	N	150	N	700	N
816	N	30	N	500	500	N	100	N	>1,000	N
817	N	15	N	300	150	N	50	N	200	N
818	N	30	N	300	200	N	70	N	700	<100
819	N	30	N	300	200	N	70	N	700	N
820	N	20	N	200	150	N	50	N	200	N
821	N	20	N	200	200	N	30	N	200	N
822	N	20	N	200	300	N	50	N	500	N
823	N	30	<10	200	300	N	70	N	1,000	100
824	N	30	N	200	300	N	70	N	1,000	N
825	N	20	N	200	200	N	70	N	700	N
826	N	20	N	300	150	N	70	N	700	150
827	N	30	N	300	300	N	70	N	700	N
828	N	20	N	150	150	N	50	N	300	N
829	N	20	N	300	150	N	50	N	300	N

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
830	36 11 43	118 24 36	3.0	1.50	1.5	.300	700	N	N	N	15	200.0
831	36 10 12	118 24 15	3.0	2.00	1.5	.300	700	N	N	N	15	200.0
832	36 26 37	118 9 39	3.0	.30	.7	.300	500	N	N	N	10	100.0
833	36 27 12	118 11 43	1.5	.20	1.5	.300	500	N	N	N	N	100.0
834	36 27 6	118 11 39	.7	.20	1.0	.300	200	N	N	N	N	150.0
835	36 26 39	118 11 38	.7	.15	.5	.300	200	N	N	N	N	100.0
836	36 26 29	118 11 16	1.5	.20	.7	.700	500	N	N	N	N	100.0
837	36 26 7	118 10 24	1.5	.20	1.0	.700	300	N	N	N	N	150.0
837R	36 26 7	118 10 24	1.5	.20	.7	.500	500	N	N	N	N	100.0
837R1	36 26 7	118 10 24	2.0	.30	1.5	.700	500	N	N	N	N	150.0
837R2	36 26 7	118 10 24	2.0	.30	1.0	.700	300	N	N	N	<10	150.0
838	36 20 14	118 15 15	15.0	.70	1.0	.300	500	N	N	N	10	100.0
838R	36 20 14	118 15 15	10.0	.70	1.0	.300	300	N	N	N	N	100.0
838R1	36 20 14	118 15 15	5.0	1.00	1.5	.500	500	N	N	N	10	150.0
838R2	36 20 14	118 15 15	10.0	.70	2.0	.500	700	N	N	N	10	200.0
839	36 20 50	118 15 16	5.0	2.00	3.0	.700	700	N	N	N	10	300.0
840	36 21 21	118 15 33	7.0	3.00	2.0	.700	500	N	N	N	<10	200.0
841	36 22 8	118 17 1	3.0	1.00	1.5	.500	200	N	N	N	N	70.0
842	36 22 50	118 15 41	3.0	.50	1.0	.300	200	N	N	N	N	100.0
843	36 25 13	118 12 6	5.0	.50	1.0	.700	700	N	N	N	<10	150.0
844	36 25 21	118 13 52	7.0	.20	.7	.700	500	N	N	N	<10	100.0
845	36 24 58	118 14 26	2.0	1.00	3.0	.700	700	N	N	N	10	150.0
846	36 23 56	118 14 51	15.0	.50	1.5	.700	700	N	N	N	<10	100.0
847	36 23 15	118 14 51	10.0	.30	1.0	.500	500	N	N	N	<10	100.0
847R	36 23 15	118 14 51	10.0	.30	.7	.500	300	N	N	N	<10	100.0
847R1	36 23 15	118 14 51	15.0	.70	1.5	.500	500	N	N	N	10	200.0
847R2	36 23 15	118 14 51	15.0	.50	1.5	.500	700	N	N	N	10	150.0
848	36 24 6	118 13 10	3.0	.20	.7	.300	300	N	N	N	<10	100.0
849	36 24 30	118 12 7	2.0	.15	.7	.300	200	N	N	N	N	150.0
850	36 24 35	118 11 24	7.0	.20	1.0	.700	700	N	N	N	<10	150.0
851	36 24 40	118 10 29	3.0	.15	1.0	.700	200	N	N	N	N	150.0
852	36 24 53	118 10 13	7.0	.30	1.0	.500	1,500	N	N	N	15	200.0
853	36 24 51	118 9 8	1.0	.15	1.0	.300	300	N	N	N	N	150.0
854	36 24 50	118 8 51	1.5	.20	.7	.300	300	N	N	N	N	150.0
855	36 24 35	118 9 30	1.0	.20	1.0	.500	500	N	N	N	N	200.0
856	36 24 26	118 10 22	1.0	.30	1.0	.500	300	N	N	N	N	150.0
858	36 15 34	118 35 9	7.0	2.00	1.0	.700	1,000	N	N	N	N	300.0
859	36 15 32	118 34 4	5.0	3.00	2.0	1.000	1,500	N	N	N	50	700.0
860	36 15 43	118 33 17	10.0	2.00	2.0	1.000	1,000	N	N	N	50	500.0
861	36 15 49	118 33 9	7.0	1.00	1.0	.700	1,000	N	N	N	20	300.0
862	36 15 15	118 31 3	7.0	.70	1.0	.700	1,000	N	N	N	70	300.0
862R	36 15 15	118 31 3	5.0	.70	1.0	.700	1,000	N	N	N	70	300.0
862R1	36 15 15	118 31 3	5.0	.70	1.0	.500	700	1.0	N	N	30	300.0
862R2	36 15 15	118 31 3	5.0	.70	1.5	.500	700	N	N	N	50	300.0

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
830	2.0	N	N	15	10	10	50	N	<20	5	20
831	1.5	N	N	30	100	15	50	N	N	50	15
832	2.0	N	N	7	10	20	70	N	N	<5	20
833	2.0	N	N	N	N	15	70	N	<20	<5	50
834	2.0	N	N	N	N	7	70	N	N	5	30
835	3.0	N	N	N	N	5	70	N	20	<5	30
836	2.0	N	N	5	N	7	150	N	20	<5	30
837	2.0	N	N	<5	N	10	100	<5	20	<5	30
837R	2.0	N	N	N	N	15	100	N	20	<5	30
837R1	1.5	N	N	N	<10	10	150	<5	20	<5	20
837R2	1.5	N	N	N	<10	7	150	<5	20	<5	30
838	1.0	N	N	30	100	10	70	N	N	10	20
838R	1.0	N	N	20	30	20	70	N	N	10	10
838R1	1.0	N	N	10	20	30	50	N	N	5	15
838R2	1.0	N	N	15	20	30	50	N	N	7	15
839	1.5	N	N	20	15	15	100	N	N	5	20
840	1.0	N	N	20	150	15	70	5	N	70	20
841	1.0	N	N	10	10	15	70	5	N	5	15
842	1.5	N	N	7	10	10	70	N	N	<5	15
843	1.5	N	N	10	10	20	100	N	<20	<5	30
844	1.5	N	N	15	10	30	150	N	<20	<5	30
845	1.5	N	N	10	10	30	100	N	N	<5	30
846	1.0	N	N	30	100	70	100	N	<20	10	20
847	1.5	N	N	20	50	50	100	N	N	7	20
847R	1.5	N	N	15	20	30	70	N	N	5	20
847R1	<1.0	N	N	20	50	50	100	N	N	10	15
847R2	<1.0	N	N	20	50	50	100	N	N	7	15
848	2.0	N	N	7	10	15	70	N	N	<5	20
849	2.0	N	N	5	N	10	50	N	N	<5	30
850	3.0	N	N	10	10	20	100	N	20	<5	30
851	2.0	N	N	5	<10	10	100	N	N	<5	30
852	3.0	N	N	15	10	20	70	15	N	<5	50
853	3.0	N	N	N	N	5	70	7	N	<5	30
854	2.0	N	N	5	N	10	70	5	N	<5	30
855	3.0	N	N	N	N	5	70	<5	N	<5	50
856	3.0	N	N	<5	N	10	70	N	N	<5	50
858	1.0	N	N	20	70	15	30	N	<20	15	20
859	1.0	N	N	30	50	50	50	N	<20	15	50
860	1.0	N	N	15	100	30	70	N	<20	10	30
861	1.5	N	N	15	200	20	50	N	<20	10	50
862	1.5	N	N	15	100	20	70	<5	<20	20	30
862R	1.5	N	N	10	70	15	70	<5	<20	15	30
862R1	1.5	N	N	7	30	15	70	N	20	7	20
862R2	1.5	N	N	7	30	15	70	<5	20	10	15

Table 9.--Data for stream-sediment samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
830	N	15	N	300	150	N	50	N	200	<100
831	N	30	N	200	200	N	50	N	200	<100
832	N	7	N	300	200	N	30	N	300	<100
833	N	5	N	500	150	N	30	N	300	N
834	N	5	N	500	70	N	20	N	100	N
835	N	5	N	200	50	N	20	N	150	N
836	N	7	N	300	150	N	30	N	200	N
837	N	10	N	300	150	N	50	N	300	N
837R	N	7	N	300	100	N	30	N	200	N
837R1	N	5	N	500	150	N	30	N	200	N
837R2	N	5	N	300	150	N	30	N	300	N
838	N	20	N	300	300	N	50	N	500	N
838R	N	20	N	300	200	N	50	N	500	N
838R1	N	15	N	300	300	N	20	N	700	N
838R2	N	15	N	500	300	N	20	N	700	N
839	N	30	N	500	200	N	50	N	500	<100
840	N	30	N	500	200	N	50	N	300	100
841	N	15	N	300	150	N	30	N	150	N
842	N	10	N	300	150	N	20	N	150	N
843	N	10	N	500	200	N	30	N	300	N
844	N	15	N	300	300	N	50	N	500	150
845	N	20	N	1,000	200	N	50	N	500	N
846	N	20	N	300	500	N	70	N	700	200
847	N	15	N	300	300	N	50	N	500	<100
847R	N	10	N	200	300	N	50	N	500	N
847R1	N	7	N	300	500	N	30	N	700	150
847R2	N	7	N	200	500	N	30	N	700	100
848	N	7	N	300	200	N	20	N	300	N
849	N	5	N	300	100	N	20	N	200	N
850	N	7	N	300	200	N	50	N	500	300
851	N	10	N	500	150	N	50	N	300	<100
852	N	10	N	500	150	N	30	N	300	N
853	N	5	N	500	30	N	15	N	50	N
854	N	7	N	200	70	N	20	N	150	N
855	N	5	N	500	70	N	30	N	150	N
856	N	7	N	300	100	N	50	N	150	N
858	N	30	N	150	200	N	50	N	500	N
859	N	30	N	300	200	N	50	N	300	N
860	N	30	N	200	300	N	70	N	>1,000	N
861	N	15	N	150	200	N	70	N	300	N
862	N	15	N	150	300	N	70	N	500	200
862R	N	20	N	150	300	N	70	N	500	N
862R1	N	7	N	200	150	N	30	N	700	N
862R2	N	7	N	150	200	N	30	N	700	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
001	36 26 24	118 18 29	.20	.05	5.0	>1.0	1,500	N	N	N	N	20
002	36 25 35	118 18 6	.20	.03	5.0	>1.0	1,500	N	N	N	N	<20
003	36 24 6	118 16 52	.20	.03	5.0	>1.0	1,000	N	N	N	N	20
004	36 24 54	118 16 44	.20	.05	5.0	>1.0	1,500	N	N	N	N	20
005	36 24 57	118 16 23	.15	.03	5.0	>1.0	1,000	N	N	N	N	20
006	36 27 17	118 16 52	.15	.03	3.0	>1.0	700	N	N	N	N	<20
006R	36 27 17	118 16 52	.20	.03	5.0	>1.0	700	N	N	N	N	<20
006R1	36 27 17	118 16 52	.20	.05	5.0	>1.0	1,000	N	N	N	N	<20
006R2	36 27 17	118 16 52	.15	.03	5.0	>1.0	700	N	N	N	N	<20
007	36 26 38	118 16 24	.20	.03	5.0	>1.0	700	N	N	N	N	<20
008	36 25 54	118 16 54	.15	.05	3.0	>1.0	700	N	N	N	N	<20
009	36 26 29	118 17 17	.20	.05	5.0	>1.0	1,000	N	N	N	N	<20
011	36 25 33	118 15 34	.15	.03	7.0	>1.0	700	N	N	N	N	<20
012	36 27 13	118 11 46	.20	.02	5.0	>1.0	1,000	N	N	N	N	<20
014	36 28 19	118 12 20	.20	.02	5.0	>1.0	1,000	N	N	N	N	<20
018	36 20 22	118 6 28	.20	.02	5.0	>1.0	1,000	N	N	N	N	70
018R	36 20 22	118 6 28	.15	.03	7.0	>1.0	1,000	N	N	N	N	50
018R1	36 20 22	118 6 28	.15	.02	5.0	>1.0	700	N	N	N	N	30
018R2	36 20 22	118 6 28	.10	.02	7.0	>1.0	1,000	N	N	N	N	30
019	36 20 1	118 7 17	.15	.02	5.0	>1.0	700	N	N	N	N	70
020	36 19 26	118 7 45	.15	.02	5.0	>1.0	1,500	N	N	N	N	100
022	36 21 8	118 8 23	.15	.02	5.0	>1.0	1,000	N	N	N	N	50
023	36 20 30	118 8 48	.15	.02	7.0	>1.0	1,000	N	N	N	N	50
024	36 20 18	118 9 40	.15	.02	7.0	>1.0	1,500	N	N	N	N	70
025	36 19 4	118 10 59	.15	.02	7.0	>1.0	1,000	N	N	N	N	30
027	36 20 44	118 8 3	.15	.02	7.0	>1.0	1,000	N	N	N	N	100
028	36 20 12	118 8 20	.20	.02	3.0	>1.0	2,000	N	N	N	N	50
029	36 20 32	118 9 21	.20	.02	5.0	>1.0	1,500	N	N	N	N	30
033	36 18 12	118 24 23	.30	.03	5.0	>1.0	700	N	N	<10	N	30
034	36 17 40	118 24 35	.20	.20	7.0	>1.0	1,500	N	N	<10	30	70
035	36 17 1	118 24 36	.20	.05	3.0	>1.0	700	N	N	<10	N	20
036	36 16 5	118 24 33	.20	.05	5.0	>1.0	1,000	N	N	N	20	100
037	36 16 29	118 24 27	.20	.10	5.0	>1.0	700	N	N	N	50	150
038	36 17 9	118 22 39	.20	.07	3.0	>1.0	700	N	N	N	N	100
039	36 16 50	118 23 17	.15	.05	5.0	>1.0	700	N	N	N	N	70
040	36 17 4	118 23 7	.15	.03	3.0	>1.0	500	N	N	N	N	100
041	36 18 36	118 21 45	.15	.03	3.0	>1.0	700	N	N	N	N	20
042	36 18 19	118 22 6	.20	.02	5.0	>1.0	1,000	N	N	<10	N	N
043	36 22 41	118 20 55	.15	.02	3.0	>1.0	700	N	N	N	N	30
044	36 23 30	118 21 25	.15	<.02	3.0	>1.0	700	N	N	N	N	20
045	36 22 14	118 22 10	.15	.50	5.0	>1.0	700	N	N	N	N	<20
046	36 23 22	118 21 32	.15	.02	5.0	>1.0	1,000	N	N	N	N	<20
047	36 19 1	118 16 7	.15	.02	7.0	>1.0	700	N	N	N	N	<20
047R	36 19 1	118 16 7	.15	.02	7.0	>1.0	700	N	N	N	N	20
047R1	36 19 1	118 16 7	.15	.02	5.0	>1.0	700	N	N	N	N	<20

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
001	1.0	N	N	N	15	15	>1,000	7	70	50	30	N
002	1.0	N	N	N	15	15	>1,000	10	70	<5	20	N
003	1.0	50	N	N	30	15	>1,000	5	70	5	30	N
004	1.0	N	N	N	20	10	>1,000	5	70	<5	30	N
005	1.0	N	N	N	20	10	>1,000	<5	70	<5	30	N
006	1.0	N	N	N	15	15	>1,000	5	70	5	30	N
006R	1.0	N	N	N	15	10	>1,000	5	100	N	20	N
006R1	1.0	N	N	5	10	15	>1,000	15	50	N	50	N
006R2	1.0	N	N	5	10	15	>1,000	15	30	N	50	N
007	1.0	N	N	N	15	10	>1,000	<5	70	10	20	N
008	1.0	N	N	N	20	15	>1,000	7	70	5	20	N
009	1.0	N	N	N	20	20	>1,000	5	70	5	30	N
011	1.0	N	N	N	10	15	>1,000	<5	70	20	30	N
012	1.0	N	N	N	10	20	>1,000	<5	70	20	70	N
014	1.0	N	N	N	10	15	>1,000	<5	70	10	30	N
018	1.0	N	N	N	15	15	>1,000	<5	70	10	50	N
018R	1.0	N	N	N	15	15	>1,000	N	70	7	50	N
018R1	1.0	N	N	5	<10	7	>1,000	15	50	30	30	N
018R2	1.0	N	N	5	<10	10	1,000	10	50	30	50	N
019	1.0	100	N	N	10	15	>1,000	N	70	5	70	N
020	1.0	N	N	N	10	15	>1,000	<5	70	10	50	N
022	1.0	N	N	N	10	15	>1,000	<5	70	5	50	N
023	1.0	N	N	N	10	15	>1,000	<5	70	<5	30	N
024	1.0	N	N	N	10	15	>1,000	<5	50	<5	30	N
025	1.0	N	N	N	10	15	>1,000	<5	50	5	30	N
027	1.0	50	N	N	10	15	>1,000	<5	70	7	30	N
028	1.0	N	N	7	20	15	1,000	5	20	7	30	N
029	1.0	N	N	7	N	15	1,000	5	30	7	50	N
033	1.0	N	N	30	30	1,000	700	7	50	7	3,000	<100
034	1.0	N	N	N	50	15	300	7	50	20	150	N
035	1.0	30	N	N	30	15	500	7	50	<5	20	N
036	1.0	50	N	N	30	15	700	5	30	<5	30	N
037	1.0	N	N	N	50	15	700	5	30	<5	15	N
038	1.0	N	N	N	30	15	1,000	<5	30	<5	15	N
039	1.0	N	N	N	20	15	1,000	<5	30	<5	10	N
040	1.0	N	N	N	30	15	700	<5	30	<5	20	N
041	1.0	N	N	N	N	15	1,000	5	30	<5	30	N
042	1.0	N	N	N	N	15	1,000	5	50	<5	70	N
043	1.0	N	N	N	N	15	1,000	5	30	<5	70	N
044	1.0	N	N	N	N	15	1,000	7	30	<5	70	N
045	1.0	30	N	N	150	15	>1,000	7	30	<5	30	N
046	1.0	N	N	N	15	15	>1,000	5	30	<5	30	N
047	1.0	N	N	N	20	15	>1,000	5	30	<5	15	N
047R	1.0	N	N	N	15	15	>1,000	5	30	<5	15	N
047R1	1.0	N	N	5	15	10	>1,000	15	30	N	15	N

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
001	10	20	N	200	N	300	N	300	500
002	10	30	N	150	<50	300	N	200	150
003	10	30	N	300	N	500	N	300	500
004	10	30	N	300	N	500	N	200	300
005	10	30	N	300	N	500	N	200	1,000
006	10	30	N	300	N	500	N	200	300
006R	10	30	N	500	N	300	N	200	<100
006R1	15	30	N	100	N	300	N	100	<100
006R2	15	30	N	100	N	300	N	100	<100
007	10	30	N	300	N	300	N	300	300
008	10	20	N	500	N	300	N	200	300
009	10	30	N	300	N	500	N	200	700
011	10	20	N	300	N	300	N	300	1,000
012	10	30	N	300	N	300	N	300	1,000
014	10	30	N	200	N	500	N	200	1,000
018	10	30	N	300	N	500	N	300	1,000
018R	10	30	N	300	N	500	N	300	1,500
018R1	15	50	N	100	N	300	N	1,000	1,500
018R2	15	50	N	100	N	300	N	1,000	1,000
019	10	30	N	200	N	500	N	200	1,000
020	10	30	N	200	N	500	N	200	1,500
022	10	30	N	300	N	500	N	300	700
023	10	50	N	300	N	500	N	300	1,000
024	10	30	N	200	N	500	N	200	1,000
025	10	30	N	200	N	300	N	300	700
027	10	30	N	150	<50	300	N	300	1,000
028	10	50	N	500	N	300	N	500	1,000
029	10	50	N	300	N	300	N	500	1,500
033	10	150	N	150	100	1,000	N	1,000	300
034	10	70	N	150	<50	700	N	300	<100
035	10	70	N	200	<50	700	N	500	<100
036	10	70	N	300	N	500	N	1,000	150
037	10	70	N	200	N	700	N	700	100
038	10	30	N	300	N	700	N	700	200
039	10	30	N	500	N	500	N	1,000	N
040	10	30	N	500	N	300	N	700	150
041	10	30	N	300	N	500	N	1,000	500
042	10	50	N	200	N	700	N	500	500
043	10	30	N	200	N	500	N	500	700
044	10	30	N	200	N	500	N	500	500
045	10	30	N	300	N	500	N	700	300
046	10	30	N	200	N	500	N	300	300
047	10	30	N	300	N	300	N	500	300
047R	10	30	N	300	N	500	N	700	300
047R1	15	30	N	100	N	500	N	1,000	500

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
047R2	36 19 1	118 16 7	.10	<.02	3.0	>1.0	700	N	N	N	N	N
048	36 19 1	118 15 24	.20	.07	3.0	>1.0	1,500	N	N	N	N	30
049	36 23 6	118 31 59	.20	.05	3.0	>1.0	1,000	N	300	10	N	N
050	36 21 57	118 31 59	.15	.03	3.0	>1.0	1,500	N	N	10	N	N
051	36 21 0	118 31 51	.15	.03	3.0	>1.0	1,500	<.5	200	<10	N	<20
052	36 21 3	118 32 6	.20	.05	5.0	>1.0	1,000	N	200	N	N	20
052R	36 21 3	118 32 6	.15	.05	3.0	>1.0	700	N	300	N	N	<20
052R1	36 21 3	118 32 6	.10	.05	3.0	>1.0	1,000	N	300	10	15	<20
052R2	36 21 3	118 32 6	.15	.05	5.0	>1.0	1,000	N	300	10	N	N
053	36 20 10	118 32 4	.15	.05	5.0	>1.0	1,000	2.0	N	N	30	20
054	36 20 14	118 32 13	.50	.70	3.0	1.0	1,000	3.0	1,500	N	100	100
055	36 20 59	118 30 32	.20	.05	5.0	>1.0	1,000	N	N	N	N	N
056	36 20 32	118 30 35	.20	.07	5.0	>1.0	700	N	N	N	50	20
057	36 20 0	118 31 38	.20	.05	3.0	>1.0	700	N	N	N	N	20
058	36 18 56	118 30 52	.20	.30	5.0	>1.0	700	N	N	N	300	100
059	36 18 46	118 31 20	.15	.05	5.0	>1.0	1,000	5.0	N	N	30	70
060	36 18 4	118 31 3	.20	.20	5.0	>1.0	1,000	1.5	N	N	50	<20
063	36 19 19	118 29 27	.30	.05	5.0	>1.0	1,000	N	N	N	N	<20
064	36 18 52	118 29 28	.30	1.50	5.0	>1.0	1,000	1.5	N	N	30	<20
064R	36 18 52	118 29 28	.30	1.00	5.0	>1.0	1,000	N	N	N	100	<20
064R1	36 18 52	118 29 28	.20	1.00	5.0	>1.0	1,000	1.0	N	<10	30	<20
064R2	36 18 52	118 29 28	.20	1.00	5.0	>1.0	1,000	1.0	N	<10	30	<20
065	36 18 23	118 29 51	.30	.70	5.0	>1.0	1,000	N	N	N	50	20
067	36 16 55	118 30 21	.30	.02	3.0	>1.0	1,000	N	N	N	N	30
068	36 16 43	118 30 27	.20	.02	5.0	>1.0	1,000	1.0	N	N	10	20
069	36 16 30	118 30 56	.20	.05	7.0	>1.0	1,000	5.0	N	N	30	20
070	36 15 1	118 24 49	.30	.20	3.0	>1.0	700	N	N	N	N	70
071	36 15 50	118 24 15	.30	.10	5.0	>1.0	700	N	N	N	20	70
072	36 16 29	118 24 8	.15	.10	5.0	>1.0	700	N	N	N	N	70
073	36 19 56	118 34 28	.15	.10	5.0	>1.0	700	1.5	N	N	N	30
074	36 19 0	118 34 4	.15	.03	5.0	>1.0	700	2.0	N	N	70	30
077	36 17 38	118 33 13	.15	.05	5.0	>1.0	500	3.0	N	N	30	30
082	36 18 19	118 39 44	.50	.30	7.0	1.0	700	N	N	N	70	100
083	36 18 8	118 39 41	.50	2.00	5.0	>1.0	700	N	N	N	50	70
201	36 17 59	118 10 15	.20	<.02	5.0	>1.0	1,500	N	N	N	N	20
202	36 17 51	118 10 49	.30	.03	3.0	>1.0	1,000	N	N	N	<10	50
203	36 17 54	118 12 5	.15	.05	5.0	>1.0	700	N	N	N	N	50
205	36 18 17	118 5 12	.20	.03	3.0	>1.0	1,000	N	N	N	N	20
206	36 18 23	118 4 7	.20	<.02	5.0	>1.0	1,000	N	N	N	N	20
208	36 22 13	118 5 50	.20	.02	5.0	>1.0	1,000	7.0	N	N	N	70
209	36 23 27	118 4 28	.20	.02	5.0	>1.0	1,000	N	N	N	N	N
210	36 16 14	118 8 29	.20	.03	3.0	>1.0	1,500	N	N	N	N	20
211	36 17 2	118 9 51	.20	.03	3.0	>1.0	1,500	N	N	N	N	20
212	36 17 1	118 10 4	.20	.03	5.0	>1.0	1,000	1.0	N	N	N	50
213	36 17 18	118 11 16	.20	.05	3.0	>1.0	700	N	N	N	N	50

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
047R2	1.0	N	N	5	10	10	>1,000	10	30	<5	15	N
048	1.0	N	N	N	50	15	>1,000	5	30	<5	15	N
049	1.0	N	N	5	N	15	150	5	70	<5	200	N
050	10.0	N	N	5	N	15	200	<5	70	<5	100	N
051	1.0	N	N	5	N	15	300	<5	30	<5	200	N
052	1.0	N	N	N	15	15	200	<5	70	N	100	<100
052R	1.0	N	N	N	10	15	150	<5	70	N	150	N
052R1	1.0	N	N	15	<10	5	100	7	100	50	300	N
052R2	1.0	N	N	20	<10	5	100	7	100	50	200	N
053	1.0	N	N	N	15	10	200	<5	70	N	5,000	N
054	1.0	150	N	15	70	15	150	<5	30	10	100	N
055	1.0	N	N	N	<10	10	200	5	100	N	70	N
056	1.0	N	N	N	20	15	300	5	70	N	50	N
057	1.0	N	N	N	20	15	200	5	70	N	50	N
058	1.0	200	N	N	70	15	500	<5	<20	N	30	N
059	1.0	70	N	N	50	15	700	<5	30	N	50	N
060	1.0	N	N	N	30	15	200	<5	50	N	50	N
063	1.0	N	N	N	15	10	500	7	70	N	70	N
064	1.0	N	N	N	100	15	150	5	50	N	50	N
064R	1.0	N	N	N	50	7	300	7	100	N	70	N
064R1	1.0	N	N	5	70	7	150	7	70	5	50	N
064R2	1.0	N	N	<5	70	7	150	7	70	5	30	N
065	1.0	N	N	N	70	10	300	7	70	N	50	N
067	1.0	30	N	N	20	7	>1,000	N	30	N	50	N
068	1.0	N	N	N	15	7	1,000	<5	30	N	30	N
069	1.0	N	N	N	30	15	300	<5	30	N	50	N
070	1.0	15	N	15	30	15	300	5	50	N	30	N
071	1.0	20	N	N	30	15	300	<5	30	N	70	N
072	1.0	N	N	N	20	15	500	5	30	N	30	N
073	1.0	N	N	N	50	15	500	7	30	N	50	N
074	1.0	300	N	N	50	15	500	15	50	N	70	N
077	1.0	500	N	N	10	15	700	10	20	N	70	N
082	1.0	N	N	N	100	15	300	<5	30	N	15	N
083	1.0	N	N	10	70	15	150	<5	30	N	30	N
201	1.0	N	N	N	10	10	>1,000	5	30	N	20	N
202	1.0	N	N	N	50	10	>1,000	5	20	N	20	N
203	1.0	N	N	N	20	10	>1,000	5	30	N	20	N
205	1.0	N	N	N	15	10	1,000	<5	30	N	20	N
206	1.0	N	N	N	N	10	1,000	N	30	N	70	N
208	1.0	20	N	N	20	30	>1,000	10	20	N	200	N
209	1.0	30	N	N	N	10	>1,000	<5	20	N	30	N
210	1.0	N	N	N	N	7	>1,000	5	30	N	70	N
211	1.0	N	N	N	N	5	>1,000	<5	30	N	20	N
212	1.0	N	N	N	N	7	700	N	30	N	20	N
213	1.0	N	N	N	30	7	1,000	5	20	N	20	N

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
047R2	15	30	N	100	N	300	N	1,000	300
048	10	30	N	150	N	700	N	500	200
049	10	100	1,000	100	N	>2,000	N	700	>2,000
050	10	100	1,500	100	N	>2,000	N	700	1,500
051	10	70	700	70	N	>2,000	N	700	>2,000
052	10	150	N	100	N	>2,000	N	1,000	700
052R	10	200	N	100	N	>2,000	N	1,000	1,500
052R1	15	200	N	100	N	>2,000	N	1,000	2,000
052R2	15	200	N	100	N	>2,000	N	1,000	2,000
053	10	200	N	100	N	>2,000	N	1,000	1,000
054	10	100	N	150	<50	300	N	1,000	100
055	10	200	N	100	<50	>2,000	N	>1,000	1,000
056	10	100	N	150	N	1,000	N	>1,000	300
057	10	100	N	100	N	2,000	N	1,000	700
058	10	50	N	100	500	200	N	1,000	100
059	10	50	N	100	<50	200	N	>1,000	200
060	10	70	N	100	<50	700	N	>1,000	300
063	15	150	300	100	<50	>2,000	N	1,000	700
064	10	100	N	100	N	1,000	N	>1,000	500
064R	15	70	N	100	<50	1,500	N	>1,000	500
064R1	15	150	N	100	<50	2,000	N	>1,000	300
064R2	15	100	N	100	<50	2,000	N	1,000	300
065	15	100	1,000	100	<50	2,000	N	>1,000	300
067	15	50	N	100	N	500	N	1,000	1,500
068	15	50	N	100	100	1,000	N	>1,000	1,000
069	10	70	N	100	N	700	N	1,000	500
070	10	70	N	200	50	1,000	N	>1,000	150
071	10	70	N	200	N	700	N	>1,000	150
072	10	50	N	200	<50	700	N	>1,000	200
073	10	70	N	150	N	500	N	>1,000	200
074	10	100	N	100	500	500	N	>1,000	200
077	10	200	N	100	50	1,000	N	>1,000	300
082	10	30	N	100	<50	200	N	1,000	200
083	10	50	N	100	<50	300	N	>1,000	<100
201	15	30	N	100	N	500	N	500	300
202	15	30	N	100	N	700	N	300	300
203	15	50	N	100	N	500	N	500	150
205	15	30	N	100	N	300	N	500	700
206	15	50	N	100	N	300	N	500	1,000
208	15	50	N	100	50	300	N	700	1,500
209	15	70	N	100	<50	700	N	700	500
210	15	70	N	100	N	1,000	N	1,000	<100
211	15	50	N	100	N	1,000	N	1,000	<100
212	15	100	N	100	N	1,500	N	700	<100
213	15	30	N	100	N	700	N	700	100

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
214	36 17 14	118 11 49	.20	.03	5.0	>1.0	700	N	N	N	N	30
216	36 22 2	118 10 23	.20	.05	5.0	>1.0	700	N	N	N	N	20
219	36 23 4	118 11 26	.20	.03	5.0	>1.0	700	N	N	N	N	<20
220	36 22 18	118 11 21	.20	.03	5.0	>1.0	500	N	N	N	N	<20
221	36 22 18	118 10 46	.20	.02	5.0	>1.0	500	N	N	N	N	N
225	36 17 44	118 18 15	.20	.20	5.0	>1.0	500	2.0	N	N	N	50
227	36 16 57	118 17 41	.20	.05	5.0	>1.0	1,000	N	N	N	N	50
228	36 16 15	118 18 42	.20	.10	5.0	>1.0	700	N	N	N	N	70
231	36 15 59	118 20 8	.20	.15	5.0	>1.0	700	1.0	N	N	N	20
232	36 17 47	118 19 28	.20	.10	7.0	>1.0	700	N	N	<10	N	20
233	36 16 55	118 19 36	.20	.07	5.0	>1.0	500	N	N	N	N	30
234	36 17 6	118 19 23	.20	.20	5.0	>1.0	1,000	.5	N	N	N	50
236	36 16 40	118 21 3	.15	.10	5.0	>1.0	1,000	N	N	N	N	70
237	36 19 29	118 18 42	.20	.20	3.0	>1.0	700	1.5	N	N	N	150
238	36 19 47	118 19 1	.20	.20	3.0	>1.0	700	N	N	N	N	150
240	36 20 10	118 20 21	.20	.10	5.0	>1.0	1,000	N	N	N	N	50
241	36 20 45	118 19 45	.20	.05	5.0	>1.0	1,000	N	N	<10	N	20
242	36 20 33	118 19 14	.20	.10	3.0	>1.0	700	N	N	N	N	100
244	36 10 24	118 20 15	.20	.07	3.0	>1.0	700	1.0	N	N	N	20
245	36 10 4	118 21 12	.15	.07	3.0	>1.0	500	N	N	N	N	20
246	36 9 48	118 22 9	.15	.10	3.0	>1.0	700	N	N	N	N	30
246R	36 9 48	118 22 9	.20	.05	5.0	>1.0	500	2.0	N	N	N	30
246R1	36 9 48	118 22 9	.10	.05	5.0	>1.0	700	3.0	N	N	N	30
246R2	36 9 48	118 22 9	.10	.03	5.0	>1.0	700	3.0	N	N	N	30
247	36 9 17	118 22 19	.15	.07	7.0	>1.0	300	1.0	N	N	N	30
248	36 8 54	118 21 27	.15	.05	3.0	>1.0	500	1.0	N	N	N	20
249	36 9 5	118 21 9	.20	.07	5.0	>1.0	500	N	N	N	N	100
250	36 20 3	118 17 29	.20	.05	3.0	>1.0	700	N	N	N	N	20
251	36 20 50	118 16 50	.20	.05	3.0	>1.0	700	N	N	N	N	20
252	36 27 49	118 6 50	.20	.02	5.0	>1.0	700	N	N	N	N	1,500
253	36 27 3	118 5 50	.15	.03	5.0	>1.0	700	N	N	<10	N	N
255	36 14 13	118 33 59	.20	.15	3.0	>1.0	200	5.0	N	N	50	70
256	36 13 53	118 34 14	.20	.20	2.0	1.0	200	7.0	N	N	100	70
258	36 13 38	118 32 50	.20	.50	2.0	>1.0	200	3.0	N	N	1,000	70
259	36 14 3	118 32 3	.20	.30	3.0	>1.0	300	N	<200	N	500	50
261	36 11 11	118 30 54	.30	.70	2.0	>1.0	700	1.0	N	N	15	100
262	36 11 23	118 30 12	.15	.10	5.0	>1.0	700	.7	N	N	N	50
263	36 11 41	118 29 18	.15	.05	5.0	>1.0	1,000	N	<200	N	N	30
264	36 12 6	118 28 14	.15	.02	3.0	>1.0	700	N	N	N	N	20
265	36 12 26	118 27 40	.20	.05	5.0	>1.0	700	N	N	N	20	50
273	36 17 36	118 28 45	.20	.07	3.0	>1.0	700	1.0	N	<10	N	50
274	36 17 5	118 28 47	.20	.07	3.0	>1.0	700	1.0	N	N	100	70
275	36 16 31	118 28 48	.20	.50	5.0	>1.0	500	N	N	N	30	70
276	36 15 22	118 29 44	.15	.02	5.0	>1.0	700	N	N	N	20	50
278	36 9 13	118 23 57	.15	.10	5.0	>1.0	500	N	N	N	10	70

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
214	1.0	N	N	N	20	5	>1,000	<5	20	N	20	N
216	1.0	N	N	7	N	7	1,000	N	20	N	30	N
219	1.0	N	N	N	N	7	>1,000	<5	20	N	30	N
220	1.0	N	N	N	N	10	>1,000	<5	20	N	20	N
221	1.0	N	N	5	N	7	>1,000	7	20	N	20	N
225	1.0	N	N	N	70	7	1,000	7	30	N	20	N
227	1.0	N	N	N	N	5	>1,000	5	30	N	20	N
228	1.0	N	N	N	30	10	>1,000	5	20	N	20	N
231	1.0	N	N	N	N	10	>1,000	7	30	N	15	N
232	1.0	N	N	N	30	10	>1,000	5	30	N	20	N
233	1.0	N	N	N	20	10	>1,000	<5	30	N	15	N
234	1.0	N	N	N	30	10	1,000	7	50	N	30	N
236	1.0	N	N	N	10	10	>1,000	7	30	N	15	N
237	1.0	N	N	N	50	10	700	5	30	N	20	N
238	1.0	20	N	N	50	10	1,000	5	50	N	20	N
240	1.0	N	N	N	15	10	>1,000	10	30	N	15	N
241	1.0	N	N	N	15	10	>1,000	10	50	N	30	N
242	1.0	N	N	N	30	10	>1,000	7	30	N	30	N
244	1.0	N	N	5	30	10	>1,000	7	30	N	30	N
245	1.0	N	N	N	30	15	>1,000	5	30	N	15	N
246	1.0	<10	N	N	20	15	>1,000	5	30	N	15	N
246R	1.0	N	N	N	20	7	>1,000	<5	30	N	30	N
246R1	1.0	N	N	N	15	10	1,000	7	30	5	15	N
246R2	1.0	N	N	N	15	7	1,000	7	30	5	15	N
247	1.0	N	N	N	20	5	700	<5	20	N	30	N
248	1.0	N	N	N	20	10	1,000	<5	30	N	20	N
249	1.0	N	N	N	30	10	1,000	5	30	N	20	N
250	1.0	N	N	N	30	7	>1,000	7	30	N	15	N
251	1.0	N	N	N	30	15	>1,000	7	30	N	20	N
252	1.0	N	N	N	N	15	>1,000	<5	30	N	20	N
253	1.0	N	N	N	N	15	>1,000	7	50	N	30	N
255	1.0	20	N	15	50	10	500	N	<20	N	15	N
256	1.0	20	N	15	70	15	700	N	N	N	20	N
258	1.0	150	N	70	70	15	200	<5	20	N	30	N
259	1.0	100	N	50	70	15	200	<5	20	N	30	N
261	1.0	N	N	N	70	5	200	<5	30	N	30	N
262	1.0	N	N	N	15	10	>1,000	5	30	N	30	N
263	1.0	N	N	7	50	7	1,000	<5	30	15	50	N
264	1.0	N	N	N	20	10	>1,000	<5	30	N	20	N
265	1.0	100	N	N	30	15	>1,000	5	30	N	30	N
273	1.0	N	N	N	30	10	500	<5	70	20	20	N
274	1.0	N	N	N	50	10	300	<5	30	N	30	N
275	1.0	N	N	N	100	10	700	<5	30	N	30	N
276	1.0	100	N	N	20	10	700	N	30	N	50	N
278	1.0	10	N	N	50	10	700	7	30	N	30	N

Table 10 --Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
214	15	30	N	100	N	700	N	700	150
216	15	30	N	100	N	300	N	500	1,000
219	15	30	N	100	<50	300	N	300	300
220	15	50	N	100	<50	300	N	200	300
221	15	30	N	100	100	200	N	200	300
225	15	30	N	100	N	500	N	>1,000	<100
227	15	50	N	100	N	1,000	N	1,000	100
228	15	70	N	100	N	1,000	N	1,000	<100
231	15	30	N	100	N	700	N	>1,000	N
232	15	50	N	100	N	1,500	N	300	<100
233	15	30	N	100	N	700	N	500	<100
234	7	50	N	100	N	500	N	>1,000	<100
236	7	30	N	100	N	700	N	700	300
237	7	30	N	100	N	700	N	>1,000	N
238	7	30	N	100	N	700	N	>1,000	<100
240	7	50	N	100	N	700	N	1,000	150
241	7	50	N	100	N	700	N	700	100
242	7	50	N	100	N	1,000	N	>1,000	N
244	7	30	N	100	N	500	N	>1,000	150
245	7	30	N	100	N	500	N	>1,000	<100
246	7	30	N	100	N	500	N	>1,000	150
246R	7	30	N	100	N	700	N	>1,000	200
246R1	15	30	N	100	N	500	N	>1,000	100
246R2	15	20	N	100	<50	700	N	>1,000	100
247	7	20	N	100	N	300	N	>1,000	N
248	7	30	N	100	N	500	N	>1,000	100
249	7	30	N	100	N	300	N	1,000	N
250	7	50	N	100	N	700	N	1,000	200
251	7	50	N	100	N	500	N	1,000	300
252	7	30	N	100	<50	300	N	500	500
253	7	50	N	100	N	700	N	700	150
255	7	50	N	100	N	500	N	>1,000	N
256	7	30	N	100	N	300	N	>1,000	N
258	7	50	N	100	150	300	N	>1,000	N
259	7	30	N	100	50	300	N	>1,000	100
261	15	50	N	100	<50	700	N	>1,000	150
262	15	30	N	100	N	500	N	>1,000	200
263	7	30	N	100	N	500	N	>1,000	1,500
264	7	30	N	100	N	500	N	>1,000	700
265	7	50	N	100	<50	500	N	>1,000	500
273	7	70	N	100	N	1,500	N	>1,000	100
274	7	50	N	100	N	1,000	N	>1,000	100
275	7	50	N	100	N	500	N	>1,000	100
276	7	50	N	100	50	500	N	>1,000	300
278	7	30	N	100	N	700	N	>1,000	200

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
307	36 13 25	118 20 33	--	.30	3.0	>1.0	700	N	N	<10	N	--
308	36 13 38	118 18 31	--	.10	3.0	>1.0	700	N	N	<10	N	--
309	36 14 16	118 20 23	--	.10	5.0	>1.0	700	70.0	N	500	N	--
310	36 13 48	118 19 46	--	.15	3.0	>1.0	700	N	N	N	N	--
311	36 10 35	118 22 10	--	.15	3.0	>1.0	700	N	N	<10	N	--
312	36 13 16	118 23 46	--	.30	5.0	>1.0	700	N	N	<10	30	--
313	36 14 21	118 24 50	--	.50	3.0	>1.0	700	N	N	<10	N	--
314	36 14 55	118 28 6	--	.20	3.0	>1.0	700	N	N	N	20	--
314R	36 14 55	118 28 6	--	.10	3.0	>1.0	1,000	2.0	N	N	N	--
314r1c	36 14 55	118 28 6	--	.07	1.5	>1.0	700	5.0	N	N	10	--
314r2c	36 14 55	118 28 6	--	.07	2.0	>1.0	1,000	3.0	N	N	N	--
315	36 14 20	118 28 34	--	.07	2.0	>1.0	500	N	N	N	N	--
316	36 12 26	118 25 0	--	.70	3.0	>1.0	700	N	N	N	N	--
317	36 11 10	118 25 45	--	1.00	3.0	>1.0	1,000	N	N	<10	N	--
318	36 10 45	118 23 20	--	.10	5.0	>1.0	700	N	N	N	N	--
319	36 5 37	118 26 6	--	.10	5.0	>1.0	700	N	N	N	N	--
321	36 17 9	118 33 9	--	1.00	3.0	1.0	700	15.0	N	N	300	--
322	36 16 48	118 32 18	--	.07	1.5	>1.0	500	N	N	<10	100	--
324	36 15 28	118 32 3	--	.07	2.0	>1.0	500	N	N	N	30	--
325	36 14 44	118 32 34	--	.10	3.0	>1.0	200	15.0	3,000	N	500	--
327	36 10 55	118 19 18	--	.03	3.0	>1.0	1,000	N	N	N	N	--
327R	36 10 55	118 19 18	--	.07	3.0	>1.0	2,000	N	N	<10	N	--
327r1c	36 10 55	118 19 18	--	.05	2.0	>1.0	1,000	N	N	N	N	--
327r2c	36 10 55	118 19 18	--	.03	3.0	>1.0	700	N	N	N	N	--
329	36 17 58	118 31 40	--	.70	5.0	>1.0	700	N	N	N	100	--
330	36 17 29	118 31 17	--	.50	5.0	>1.0	1,000	N	N	N	50	--
331	36 16 42	118 31 6	--	.20	5.0	>1.0	1,000	N	N	N	15	--
332	36 23 15	118 3 30	--	.10	3.0	>1.0	700	N	N	N	N	--
333	36 22 23	118 2 7	--	.07	3.0	>1.0	700	N	N	N	N	--
334	36 24 24	118 6 14	--	.03	3.0	>1.0	1,500	N	N	<10	N	--
335	36 24 12	118 6 17	--	.03	3.0	>1.0	1,000	N	N	N	N	--
336	36 27 53	118 8 50	--	.05	3.0	>1.0	1,000	N	N	N	N	--
337	36 28 15	118 7 35	--	.05	3.0	>1.0	1,000	N	N	N	N	--
338	36 20 58	118 23 18	--	1.00	3.0	>1.0	1,000	N	N	N	N	--
339	36 18 15	118 24 28	--	.20	3.0	>1.0	1,000	N	N	<10	N	--
341	36 18 24	118 26 40	--	.15	3.0	>1.0	1,000	1.5	N	<10	N	--
342	36 18 37	118 24 46	--	.20	3.0	>1.0	1,000	1.5	N	<10	20	--
343	36 18 12	118 24 38	--	.10	5.0	>1.0	700	N	N	<10	N	--
344	36 20 14	118 15 15	--	.05	5.0	>1.0	700	N	N	N	N	--
344R	36 20 14	118 15 15	--	.05	5.0	>1.0	500	N	N	N	N	--
344r1c	36 14 14	118 15 15	--	.03	3.0	>1.0	700	N	N	N	N	--
344r2c	36 14 14	118 15 15	--	.02	3.0	>1.0	500	N	N	N	N	--
345	36 20 16	118 15 8	--	.05	3.0	>1.0	500	N	N	N	N	--
346	36 20 30	118 15 35	--	.05	5.0	>1.0	500	N	N	N	N	--
347	36 20 55	118 15 42	--	.05	3.0	>1.0	500	N	N	N	N	--

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
307	N	N	N	15	15	50	700	--	70	N	20	N
308	N	N	N	N	15	50	1,000	--	70	N	30	N
309	N	N	N	N	15	15	700	--	50	N	70	N
310	N	N	N	N	15	20	1,000	--	50	N	30	N
311	N	N	N	N	30	30	>1,000	--	50	N	15	N
312	N	N	N	N	15	20	1,000	--	50	N	20	N
313	<1.0	N	N	N	20	15	300	--	50	N	30	N
314	<1.0	>1,000	N	N	10	10	1,000	--	50	N	300	N
314R	<1.0	1,000	N	N	10	15	1,000	--	70	10	200	N
314r1c	1.0	200	N	7	10	30	500	--	100	N	100	N
314r2c	1.0	300	N	7	10	30	700	--	70	N	100	N
315	1.5	>1,000	N	N	N	10	300	--	50	N	500	N
316	1.0	N	N	N	15	7	300	--	70	N	50	N
317	N	N	N	N	100	7	500	--	70	N	70	N
318	N	N	N	15	15	15	700	--	30	N	30	N
319	N	N	N	N	100	10	1,000	--	30	N	50	N
321	<1.0	200	N	N	300	30	200	--	<20	N	30	N
322	N	150	N	N	N	N	>1,000	--	100	N	20	N
324	N	100	N	15	20	5	>1,000	--	30	N	70	N
325	N	N	N	5	20	1,500	500	--	30	50	700	N
327	N	N	N	10	10	50	>1,000	--	50	N	20	N
327R	N	N	N	10	10	30	>1,000	--	70	N	20	N
327r1c	1.0	N	N	7	10	20	>1,000	--	70	N	15	N
327r2c	1.0	N	N	5	10	15	1,000	--	70	N	15	N
329	N	N	N	15	150	10	500	--	20	N	10	N
330	N	N	N	15	70	10	1,000	--	20	N	50	N
331	N	150	N	15	70	10	1,000	--	30	N	200	N
332	N	70	N	10	30	10	>1,000	--	50	N	30	N
333	N	500	N	10	30	15	>1,000	--	50	N	70	N
334	N	N	N	10	N	15	>1,000	--	30	N	30	N
335	N	N	N	N	10	15	>1,000	--	50	N	20	N
336	N	N	N	10	15	15	>1,000	--	30	N	70	N
337	N	100	N	7	10	15	1,000	--	30	N	70	N
338	N	N	N	10	500	15	1,000	--	30	N	30	N
339	N	N	N	10	20	15	700	--	100	N	20	N
341	N	N	N	N	20	15	300	--	70	N	70	N
342	N	N	N	7	15	15	700	--	100	N	20	N
343	N	30	N	N	30	15	500	--	70	10	15	N
344	N	N	N	7	15	10	1,000	--	30	N	30	N
344R	N	N	N	10	20	10	1,000	--	30	5	30	N
344r1c	1.0	N	N	10	10	15	1,000	--	30	N	15	N
344r2c	1.0	N	N	7	10	10	1,000	--	30	N	20	N
345	N	N	N	10	20	10	>1,000	--	30	<5	70	N
346	N	N	N	15	20	10	1,000	--	30	N	30	N
347	N	N	N	15	20	10	1,000	--	30	<5	50	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
307	10	30	N	--	N	1,000	N	>1,000	N
308	10	50	N	--	N	1,500	N	>1,000	N
309	10	30	N	--	N	700	N	>1,000	700
310	10	70	N	--	N	1,500	N	>1,000	N
311	10	50	N	--	100	1,000	N	>1,000	N
312	10	50	N	--	N	1,500	N	>1,000	N
313	10	100	500	--	N	1,000	N	>1,000	N
314	10	70	N	--	700	300	N	>1,000	N
314R	10	70	300	--	50	300	N	700	N
314r1c	15	70	300	--	150	200	N	300	<100
314r2c	15	70	300	--	150	200	N	300	<100
315	10	30	500	--	50	150	N	1,000	200
316	10	30	300	--	N	500	N	>1,000	N
317	10	50	300	--	<50	1,000	N	>1,000	1,000
318	10	30	N	--	N	700	N	>1,000	500
319	10	50	N	--	N	200	N	150	300
321	10	100	N	--	50	300	N	>1,000	300
322	10	20	N	--	200	500	N	>1,000	500
324	10	30	N	--	N	200	N	>1,000	1,500
325	20	100	N	--	200	1,000	N	>1,000	1,000
327 [1/]	10	50	N	--	N	1,000	N	>1,000	300
327R	10	70	N	--	N	1,500	N	>1,000	N
327r1c	15	70	N	--	N	1,000	N	>1,000	300
327r2c	15	70	N	--	N	700	N	>1,000	300
329	10	15	N	--	100	200	N	1,000	N
330	10	50	500	--	5,000	300	N	1,000	1,000
331	10	70	300	--	<50	300	N	1,000	500
332	10	70	100	--	700	700	N	>1,000	500
333	10	70	N	--	150	1,000	N	>1,000	300
334	10	70	N	--	N	1,500	N	>1,000	1,500
335	10	70	N	--	N	1,000	N	>1,000	500
336	10	50	N	--	N	300	N	>1,000	1,000
337	10	70	N	--	N	500	N	1,000	1,000
338	10	50	N	--	N	700	N	>1,000	N
339	10	300	N	--	N	2,000	N	1,000	N
341	10	100	N	--	<50	2,000	N	>1,000	300
342	10	150	N	--	N	1,500	N	>1,000	<100
343	15	100	N	--	<50	1,500	N	>1,000	200
344	15	20	N	--	N	500	N	>1,000	700
344R	15	20	N	--	N	700	N	>1,000	500
344r1c	15	30	N	--	N	300	N	>1,000	1,000
344r2c	15	30	N	--	N	500	N	>1,000	700
345	15	30	N	--	N	700	N	>1,000	1,500
346	15	15	N	--	N	500	N	>1,000	1,000
347	15	20	N	--	N	500	N	>1,000	1,000

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
348	36 18 24	118 19 47	--	.07	3.0	>1.0	700	N	N	N	N	--
349	36 18 31	118 19 1	--	.10	3.0	>1.0	700	N	N	N	N	--
350	36 23 59	118 8 53	--	.05	3.0	>1.0	500	N	N	N	N	--
351	36 23 21	118 10 15	--	.03	5.0	>1.0	700	N	200	<10	N	--
354	36 22 6	118 8 17	--	.05	3.0	>1.0	700	N	<200	<10	10	--
355	36 25 10	118 17 49	--	.05	5.0	>1.0	700	N	N	N	N	--
356	36 19 2	118 21 19	--	.05	5.0	>1.0	700	N	N	<10	N	--
357	36 19 12	118 21 44	--	.07	3.0	>1.0	700	N	N	N	N	--
358	36 19 28	118 20 47	--	.05	5.0	>1.0	700	N	N	N	N	--
359	36 19 34	118 20 53	--	.05	3.0	>1.0	700	N	N	N	N	--
360	36 20 16	118 20 39	--	.05	3.0	>1.0	700	N	N	N	N	--
361	36 20 22	118 21 11	--	.05	3.0	>1.0	700	N	N	<10	N	--
362	36 24 4	118 17 10	--	.07	5.0	>1.0	700	N	N	N	N	--
362R	36 24 4	118 17 10	--	.05	5.0	>1.0	500	N	N	N	N	--
362r1c	36 24 4	118 17 10	--	.02	3.0	>1.0	500	N	N	N	N	--
362r2c	36 24 4	118 17 10	--	.02	3.0	>1.0	500	N	N	N	N	--
363	36 24 25	118 17 4	--	.07	5.0	>1.0	500	N	N	N	N	--
364	36 23 39	118 17 9	--	.05	5.0	>1.0	500	N	N	N	N	--
365	36 23 10	118 17 25	--	.05	5.0	>1.0	500	N	N	N	N	--
366	36 19 11	118 19 23	--	.10	5.0	>1.0	700	N	N	<10	N	--
367	36 19 38	118 18 50	--	.20	3.0	>1.0	700	N	N	<10	N	--
368	36 23 24	118 13 54	--	.05	5.0	>1.0	700	N	N	N	N	--
369	36 22 26	118 14 51	--	.07	3.0	>1.0	500	N	N	N	N	--
370	36 27 34	118 7 26	--	.05	5.0	>1.0	700	N	N	<10	N	--
380	36 23 17	118 32 20	--	.30	3.0	>1.0	1,000	N	N	N	10	--
382	36 22 39	118 31 57	--	.10	3.0	>1.0	700	N	<200	N	N	--
383	36 21 48	118 31 9	--	.07	3.0	>1.0	700	N	<200	N	N	--
384	36 21 3	118 32 6	--	.10	3.0	>1.0	700	N	N	N	20	--
384R	36 21 3	118 32 6	--	.10	3.0	>1.0	700	N	N	N	20	--
384r1c	36 21 3	118 32 6	--	.15	2.0	>1.0	1,000	2.0	N	N	50	--
384r2c	36 21 3	118 32 6	--	.15	2.0	>1.0	1,000	2.0	N	N	50	--
385	36 22 31	118 33 17	--	1.00	3.0	>1.0	700	N	300	N	70	--
386	36 23 36	118 33 24	--	1.50	3.0	.7	700	N	N	N	70	--
401	36 17 10	118 5 26	.20	.03	7.0	>1.0	1,500	N	N	N	N	20
403	36 18 2	118 3 14	.20	<.02	10.0	>1.0	1,000	N	N	N	N	50
405	36 23 26	118 7 13	.20	.03	7.0	>1.0	1,000	N	N	N	N	20
409	36 13 57	118 14 30	.20	.03	7.0	>1.0	1,000	N	N	N	N	70
410	36 13 32	118 15 31	.15	.02	5.0	>1.0	1,000	N	N	N	N	30
411	36 13 36	118 15 35	.15	.03	7.0	>1.0	1,000	1.0	N	N	N	30
412	36 12 58	118 15 14	.15	.05	5.0	>1.0	1,000	N	N	N	N	70
413	36 12 6	118 15 16	.15	.02	5.0	>1.0	1,500	.5	N	N	N	20
416	36 18 2	118 9 34	.15	.02	7.0	>1.0	1,500	N	N	N	N	50
424	36 25 14	118 8 5	.15	.02	5.0	>1.0	1,000	N	N	N	N	N
426	36 15 23	118 15 47	.15	.03	7.0	>1.0	1,500	N	N	N	N	30
427	36 14 40	118 16 10	.15	.07	3.0	>1.0	1,000	N	N	N	N	70

Table 10 --Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
348	N	N	N	10	20	15	1,000	--	50	5	70	N
349	N	N	N	N	30	20	>1,000	--	50	5	50	N
350	N	300	N	N	<10	10	>1,000	--	30	N	100	N
351	N	N	N	N	10	10	1,000	--	30	N	100	N
354	N	N	N	10	15	10	>1,000	--	70	N	500	N
355	N	N	N	15	10	15	1,000	--	30	N	50	N
356	N	N	N	10	10	10	>1,000	--	50	5	50	N
357	N	N	N	N	10	10	>1,000	--	50	N	70	N
358	N	N	N	N	10	15	1,000	--	50	<5	70	N
359	N	N	N	10	10	10	>1,000	--	30	7	100	N
360	N	100	N	N	10	10	1,000	--	30	N	50	N
361	N	N	N	N	10	15	1,000	--	70	N	30	N
362	N	N	N	N	30	10	1,000	--	50	N	30	N
362R	N	N	N	N	20	10	1,000	--	30	N	70	N
362r1c	1.0	N	N	10	10	15	>1,000	--	30	N	50	N
362r2c	1.0	N	N	10	10	10	>1,000	--	30	N	50	N
363	N	N	N	N	20	10	1,000	--	30	N	70	N
364	N	N	N	N	20	10	1,000	--	30	N	70	N
365	N	N	N	N	20	10	1,000	--	30	N	70	N
366	N	N	N	5	15	10	1,000	--	70	5	70	N
367	N	N	N	10	30	10	1,000	--	70	5	30	N
368	N	N	N	7	15	7	>1,000	--	30	N	100	N
369	N	N	N	7	20	7	700	--	30	N	70	N
370	N	50	N	7	10	5	1,000	--	30	N	20	N
380	1.0	N	N	N	20	10	500	--	150	20	70	100
382	N	N	N	N	N	10	500	--	100	20	150	100
383	N	N	N	N	N	10	700	--	100	20	100	N
384	N	N	N	N	20	10	300	--	100	20	100	N
384R	N	N	N	N	20	10	500	--	150	20	100	N
384r1c	1.0	N	N	10	20	10	500	--	100	N	100	N
384r2c	1.0	N	N	10	20	10	500	--	100	N	70	N
385	1.0	N	N	N	150	10	700	--	150	20	100	N
386	1.5	N	N	10	2,000	30	500	--	100	70	50	N
401	N	N	N	N	N	10	700	5	100	N	30	N
403	1.0	N	N	N	10	10	>1,000	10	30	20	50	N
405	N	N	N	N	N	10	700	5	50	N	20	N
409	N	N	N	N	N	15	700	N	20	N	10	N
410	N	N	N	N	N	10	700	7	20	N	15	N
411	N	N	N	N	N	7	700	5	20	N	15	N
412	N	N	N	N	N	10	700	7	20	N	15	N
413	N	N	N	N	N	10	700	7	20	N	15	N
416	N	N	N	N	N	10	1,000	7	20	N	30	N
424	N	N	N	N	N	7	700	7	30	N	30	N
426	N	N	N	N	N	10	1,000	5	30	N	15	N
427	N	N	N	N	N	10	700	5	20	N	15	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
348	15	70	N	--	N	2,000	N	>1,000	300
349	15	100	N	--	N	2,000	N	>1,000	100
350	15	70	N	--	N	300	1,000	1,000	1,000
351	15	70	N	--	N	500	N	1,000	2,000
354	15	70	N	--	N	700	N	>1,000	300
355	15	30	N	--	N	700	N	>1,000	500
356	15	50	N	--	N	1,500	300	>1,000	500
357	15	70	N	--	N	1,500	200	>1,000	1,000
358	15	70	N	--	N	1,500	N	>1,000	500
359	15	50	N	--	N	1,000	200	>1,000	1,500
360	15	70	N	--	N	1,500	N	>1,000	1,000
361	15	30	N	--	N	1,000	N	1,000	500
362	15	30	N	--	N	700	N	>1,000	700
362R	15	30	N	--	N	700	N	>1,000	1,500
362r1c	15	50	N	--	N	500	N	700	1,500
362r2c	15	50	N	--	N	500	N	1,000	1,500
363	15	30	N	--	N	700	N	>1,000	1,000
364	15	30	N	--	N	700	N	>1,000	1,000
365	15	30	N	--	N	700	N	>1,000	1,000
366	15	100	N	--	N	1,500	N	>1,000	300
367	15	70	N	--	N	1,500	N	>1,000	200
368	15	30	200	--	N	300	N	>1,000	2,000
369	15	30	N	--	N	500	N	>1,000	1,000
370	15	30	N	--	N	1,000	N	>1,000	300
380	15	300	N	--	50	>2,000	N	1,000	300
382	15	200	N	--	N	>2,000	N	>1,000	1,500
383	15	200	N	--	N	>2,000	N	>1,000	1,500
384	15	300	N	--	<50	>2,000	N	>1,000	1,000
384R	15	300	N	--	<50	>2,000	N	>1,000	500
384r1c	15	200	N	--	N	>2,000	N	>1,000	700
384r2c	15	200	N	--	N	>2,000	N	>1,000	700
385	15	200	N	--	<50	>2,000	N	>1,000	2,000
386	15	50	150	--	N	700	N	>1,000	150
401	15	50	N	100	N	1,000	N	>1,000	2,000
403	15	30	N	100	N	500	N	100	1,500
405	15	50	N	100	70	500	N	>1,000	1,000
409	15	30	N	100	N	700	N	>1,000	200
410	15	50	N	70	N	700	N	700	N
411	15	30	N	70	N	700	N	1,000	N
412	15	50	N	100	N	1,000	N	700	N
413	15	50	N	70	N	1,000	N	1,000	N
416	15	50	N	100	N	500	N	300	500
424	15	30	N	70	N	700	N	1,000	500
426	15	50	N	70	N	1,000	N	1,000	N
427	15	30	N	70	N	700	N	1,000	N

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
428	36 14 41	118 16 13	.15	.02	5.0	>1.0	1,000	N	N	N	N	20
429	36 13 58	118 16 20	.15	.02	5.0	>1.0	700	N	N	N	N	20
430	36 13 17	118 16 51	.15	.03	7.0	>1.0	1,500	N	N	N	N	30
431	36 12 5	118 16 16	.15	.02	5.0	>1.0	1,000	N	N	N	N	20
432	36 12 1	118 16 21	.15	.02	5.0	>1.0	1,000	N	N	N	N	20
433	36 12 10	118 17 51	.15	.03	3.0	>1.0	500	N	N	N	N	20
434	36 12 48	118 16 50	.15	.02	3.0	>1.0	700	N	N	N	N	20
435	36 13 7	118 17 25	.10	.05	5.0	>1.0	500	2.0	N	N	N	20
436	36 12 29	118 19 16	.15	.05	5.0	>1.0	700	N	N	<10	N	20
437	36 12 30	118 19 59	.15	.05	5.0	>1.0	500	N	N	N	N	50
437R	36 12 30	118 19 59	.10	.05	7.0	>1.0	500	N	N	N	N	50
437R1	36 12 30	118 19 59	.15	.07	7.0	>1.0	700	N	N	N	N	50
437R2	36 12 30	118 19 59	.15	.07	5.0	>1.0	500	N	N	N	N	30
438	36 12 38	118 21 9	.15	.10	5.0	>1.0	500	N	N	N	N	20
439	36 11 36	118 20 46	.15	.03	5.0	>1.0	1,000	N	N	N	N	20
440	36 11 29	118 21 48	.15	.03	5.0	>1.0	700	N	N	N	N	30
441	36 11 48	118 22 12	.20	1.00	5.0	>1.0	700	N	N	N	700	50
442	36 12 19	118 22 34	.20	.70	5.0	>1.0	1,000	N	N	N	150	50
443	36 11 36	118 22 35	.15	.10	5.0	>1.0	700	N	N	N	N	70
445	36 20 9	118 16 19	.15	.05	5.0	>1.0	1,000	N	N	N	N	20
446	36 20 50	118 16 20	.15	.05	5.0	>1.0	700	N	N	N	N	20
455	36 11 39	118 32 38	.20	2.00	5.0	>1.0	700	N	N	N	500	100
456	36 12 15	118 32 21	.30	5.00	5.0	>1.0	700	N	N	N	300	70
457	36 12 26	118 32 14	.20	3.00	7.0	.7	1,000	N	200	N	500	70
457R	36 12 26	118 32 14	.70	7.00	10.0	.5	1,000	N	N	N	500	100
457R1	36 12 26	118 32 14	.50	3.00	7.0	.5	700	N	N	N	300	50
457R2	36 12 26	118 32 14	.70	3.00	10.0	.5	700	N	N	N	300	30
458	36 12 37	118 31 15	.30	3.00	10.0	>1.0	700	N	N	N	200	70
459	36 12 17	118 30 13	.30	.15	5.0	>1.0	700	N	N	N	20	150
460	36 14 15	118 29 47	.30	.05	7.0	>1.0	1,000	5.0	N	N	N	100
461	36 14 39	118 30 34	.30	.03	7.0	>1.0	1,000	15.0	N	N	20	70
462	36 13 56	118 30 32	.30	.05	7.0	>1.0	1,000	2.0	N	N	N	70
463	36 13 13	118 30 17	.50	3.00	10.0	>1.0	700	N	N	N	700	70
464	36 12 57	118 29 57	.30	.03	7.0	>1.0	700	N	N	N	N	50
465	36 12 58	118 29 5	.30	.03	7.0	>1.0	700	N	N	N	N	70
466	36 13 23	118 28 49	.30	.03	7.0	>1.0	1,000	N	N	N	N	70
467	36 15 56	118 28 1	.30	.05	7.0	>1.0	700	N	N	N	N	50
468	36 15 19	118 27 52	.20	.10	7.0	>1.0	1,000	N	N	N	70	70
468R	36 15 19	118 27 52	.20	.15	10.0	>1.0	1,000	N	N	N	100	70
468R1	36 15 19	118 27 52	.10	.10	5.0	>1.0	500	N	N	N	70	50
468R2	36 15 19	118 27 52	.10	.10	7.0	>1.0	700	N	N	N	70	50
469	36 14 35	118 26 51	.15	.05	7.0	>1.0	1,000	N	N	N	N	70
470	36 14 13	118 27 36	.20	.10	7.0	>1.0	1,000	N	N	N	100	70
472	36 18 29	118 28 41	.20	.07	7.0	>1.0	1,000	2.0	N	N	70	20
473	36 18 2	118 29 9	.30	.07	7.0	>1.0	1,000	1.0	N	N	N	20

Table 10 --Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
428	N	N	N	N	N	10	700	5	20	N	20	N
429	N	N	N	N	N	15	>1,000	<5	20	N	10	N
430	N	N	N	N	N	10	1,000	7	20	N	15	N
431	N	N	N	N	N	10	700	7	20	N	30	N
432	N	N	N	N	N	10	1,000	10	30	N	30	N
433	N	N	N	N	N	10	700	7	20	N	30	N
434	N	N	N	N	N	10	700	10	20	N	15	N
435	N	50	N	N	N	10	700	5	20	N	30	N
436	N	N	N	N	20	10	1,000	7	30	N	20	N
437	N	N	N	N	20	10	700	7	20	N	20	N
437R	N	N	N	N	20	10	500	7	20	N	30	N
437R1	1.0	N	N	N	20	10	>1,000	10	30	N	15	N
437R2	1.0	N	N	N	15	10	1,000	15	30	N	15	N
438	N	15	N	N	30	30	700	7	30	N	15	N
439	N	N	N	N	15	30	700	7	50	N	20	N
440	N	N	N	N	20	30	1,000	7	50	N	15	N
441	N	<10	N	N	50	30	700	7	30	N	50	N
442	N	N	N	N	30	30	700	10	30	N	30	N
443	N	N	N	N	30	30	700	7	30	N	30	N
445	N	N	N	N	30	30	>1,000	7	20	N	30	N
446	N	N	N	N	30	10	>1,000	5	20	N	30	N
455	N	<10	N	N	70	20	200	N	20	N	30	N
456	N	N	N	5	70	20	200	N	20	N	30	N
457	N	20	N	7	50	20	200	N	N	N	30	N
457R	N	10	N	7	50	15	200	N	N	N	30	N
457R1	1.0	<10	N	7	20	5	200	N	N	N	20	N
457R2	1.0	500	N	5	20	5	200	N	N	N	30	N
458	N	20	N	N	50	10	700	<5	20	N	30	N
459	N	<10	N	N	50	20	1,000	5	30	N	50	N
460	N	>1,000	N	N	20	10	1,000	7	20	N	200	N
461	N	500	N	N	20	10	>1,000	<5	20	N	100	N
462	N	1,000	N	N	20	30	>1,000	<5	20	N	100	N
463	N	70	N	N	70	30	500	<5	<20	N	30	N
464	N	N	N	N	50	30	>1,000	5	<20	N	30	N
465	N	300	N	N	30	30	>1,000	<5	20	N	70	N
466	N	100	N	N	30	30	>1,000	<5	20	N	50	N
467	N	50	N	N	50	30	700	<5	20	N	50	N
468	N	100	N	N	70	30	500	N	30	N	50	N
468R	N	70	N	N	70	30	700	N	30	N	30	N
468R1	1.0	100	N	N	30	15	300	10	50	N	30	N
468R2	1.0	30	N	N	30	15	300	10	50	N	15	N
469	N	50	N	N	50	10	1,000	<5	30	N	50	N
470	N	200	N	N	50	10	>1,000	<5	30	N	100	N
472	N	N	N	N	10	5	150	5	100	N	50	N
473	N	N	N	N	20	10	200	5	30	N	50	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
428	15	50	N	70	N	1,000	N	1,000	N
429	15	30	N	100	N	1,000	N	>1,000	N
430	15	70	N	70	N	700	N	1,000	N
431	15	50	N	70	N	1,000	N	1,000	N
432	15	30	N	70	N	1,000	N	1,000	100
433	15	30	N	70	N	700	N	>1,000	200
434	15	30	N	100	N	1,000	N	700	100
435	15	30	N	100	N	1,000	N	>1,000	150
436	15	50	N	100	N	1,000	N	1,000	100
437	15	30	N	70	N	700	N	1,000	150
437R	15	30	N	70	N	700	N	700	150
437R1	15	30	N	100	<50	700	N	1,000	150
437R2	15	20	N	100	<50	700	N	1,000	100
438	15	20	N	300	<50	700	N	>1,000	100
439	15	50	N	300	N	1,000	N	>1,000	500
440	15	30	N	300	N	1,000	N	>1,000	200
441	15	30	N	300	N	700	N	100	150
442	15	20	N	300	N	700	N	700	200
443	15	30	N	500	N	1,000	N	700	100
445	15	30	N	300	N	1,000	N	1,000	500
446	15	30	N	300	N	700	N	>1,000	500
455	15	70	100	150	N	500	N	>1,000	150
456	15	50	100	150	N	500	N	1,000	150
457	15	15	200	100	<50	500	N	1,000	N
457R	15	15	200	100	N	500	N	1,000	N
457R1	15	15	200	100	N	300	N	1,000	N
457R2	15	10	200	100	N	300	N	1,000	N
458	15	30	150	300	<50	500	N	>1,000	100
459	15	30	N	200	N	300	N	700	150
460	15	50	N	200	200	700	N	1,000	700
461	15	70	N	300	200	700	N	700	1,000
462	15	70	N	200	200	500	N	700	700
463	15	30	N	200	N	300	N	1,000	100
464	15	30	N	200	<50	500	N	>1,000	700
465	15	100	N	200	50	500	N	>1,000	2,000
466	15	30	N	200	50	500	N	>1,000	1,500
467	15	30	N	200	N	1,000	N	>1,000	300
468	15	70	N	700	<50	1,000	N	1,000	300
468R	15	50	N	1,000	N	700	N	700	300
468R1	15	70	N	100	N	500	N	700	200
468R2	15	70	N	100	N	700	N	700	150
469	15	70	N	700	<50	1,000	N	>1,000	700
470	15	70	N	1,000	N	700	N	1,000	500
472	15	100	N	70	N	1,500	N	>1,000	700
473	15	100	N	70	N	2,000	N	>1,000	700

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
474	36 17 15	118 29 54	.30	.15	10.0	>1.0	1,500	1.0	N	N	100	20
475	36 16 33	118 29 40	.20	.10	10.0	>1.0	1,000	3.0	N	N	100	50
476	36 16 6	118 29 32	.20	.10	7.0	>1.0	1,000	N	N	N	70	50
477	36 15 40	118 30 41	.20	.10	7.0	>1.0	1,000	N	N	N	70	50
479	36 14 29	118 23 29	.15	.10	7.0	>1.0	700	N	N	N	N	50
481	36 12 47	118 26 41	.15	.07	7.0	>1.0	1,000	N	N	N	N	50
482	36 20 4	118 11 58	.30	1.00	3.0	>1.0	1,000	1.5	N	N	N	<20
483	36 20 18	118 10 56	.20	.05	5.0	>1.0	1,000	N	N	N	N	20
484	36 20 2	118 10 54	.30	.02	3.0	>1.0	1,500	N	N	N	N	70
485	36 22 56	118 15 46	.20	.02	5.0	>1.0	1,000	.5	N	N	N	20
486	36 22 17	118 18 15	.20	.05	7.0	>1.0	1,000	.5	N	N	N	<20
487	36 22 15	118 19 13	.15	.03	5.0	>1.0	1,000	.5	N	N	N	<20
488	36 22 44	118 19 49	.20	.05	7.0	>1.0	1,000	<.5	N	N	N	<20
601	36 25 38	118 19 40	.20	.05	5.0	>1.0	1,000	N	N	N	N	70
602	36 25 16	118 19 17	.20	.05	5.0	>1.0	1,500	N	N	N	N	20
603	36 24 20	118 19 5	.20	.05	3.0	>1.0	1,500	N	N	N	N	20
604R	36 24 22	118 19 5	.15	.03	3.0	>1.0	1,000	N	N	N	N	20
604R1	36 24 22	118 19 5	.15	.02	5.0	>1.0	500	N	N	N	N	20
604R2	36 24 22	118 19 5	.15	.02	7.0	>1.0	700	N	N	N	N	<20
605	36 24 19	118 19 2	.20	.03	5.0	>1.0	1,000	N	N	N	N	20
606	36 26 52	118 13 49	.15	<.02	3.0	>1.0	700	N	N	N	N	<20
607	36 26 32	118 14 43	.20	<.02	5.0	>1.0	1,000	N	N	N	N	N
608	36 27 20	118 15 30	.20	<.02	5.0	>1.0	1,000	N	N	N	N	N
609	36 27 18	118 15 38	.30	.02	5.0	>1.0	700	N	N	N	N	N
610	36 26 54	118 15 26	.20	.02	5.0	>1.0	700	N	N	N	N	N
611	36 26 40	118 15 30	.20	<.02	5.0	>1.0	700	N	N	N	N	N
612	36 26 11	118 15 15	.15	.02	5.0	>1.0	1,000	N	N	N	N	<20
613	36 28 56	118 10 34	.20	.02	7.0	>1.0	700	N	N	N	N	N
614	36 28 44	118 8 37	.15	.02	5.0	>1.0	700	5.0	N	N	N	N
615	36 28 38	118 8 41	.15	<.02	7.0	>1.0	1,000	N	N	N	N	20
616	36 28 30	118 7 10	.20	.03	7.0	>1.0	1,000	N	N	N	N	<20
617	36 26 37	118 9 39	.20	.02	5.0	>1.0	1,500	N	N	N	N	20
623	36 20 50	118 13 33	.20	.02	3.0	>1.0	700	N	N	N	N	20
624	36 20 36	118 12 46	.15	.02	5.0	>1.0	700	N	N	N	N	20
625	36 21 43	118 12 6	.15	<.02	7.0	>1.0	700	N	N	N	N	20
627	36 20 5	118 11 58	.30	2.00	5.0	>1.0	1,000	N	N	N	N	30
629	36 23 38	118 13 1	.15	.02	7.0	>1.0	700	N	N	N	N	<20
630	36 22 36	118 13 11	.07	.02	3.0	>1.0	700	N	N	N	N	20
631	36 22 42	118 12 18	.05	.02	5.0	>1.0	700	N	N	N	N	30
632	36 23 17	118 12 29	.10	.02	3.0	>1.0	1,000	N	N	N	N	20
633	36 19 13	118 24 1	.10	.03	3.0	>1.0	500	N	N	N	N	50
634	36 18 42	118 23 56	.10	.05	3.0	>1.0	1,000	<.5	N	N	N	30
636	36 17 14	118 26 1	.10	.05	5.0	>1.0	1,000	.5	N	<10	20	30
637	36 16 26	118 25 59	.07	.05	2.0	>1.0	700	1.0	N	<10	30	30
638	36 17 28	118 26 36	.10	.03	3.0	>1.0	700	1.0	N	<10	N	20

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
474	N	N	N	N	50	10	200	N	50	N	50	N
475	N	N	N	N	30	15	1,000	N	30	N	30	N
476	N	100	N	N	70	10	1,000	N	30	N	30	N
477	N	N	N	N	70	20	1,000	7	30	N	30	N
479	N	N	N	N	30	20	1,000	<5	30	N	30	N
481	N	N	N	N	30	15	1,000	5	30	N	30	N
482	1.0	N	N	N	500	15	1,000	7	30	15	20	<100
483	1.0	N	N	N	15	10	>1,000	<5	30	N	30	N
484	1.0	50	N	N	N	10	>1,000	N	30	N	50	N
485	1.0	N	N	10	15	7	>1,000	10	20	20	70	N
486	1.0	N	N	N	15	10	>1,000	7	30	N	30	N
487	1.0	N	N	N	15	10	>1,000	7	30	N	30	N
488	1.0	N	N	N	30	7	>1,000	7	30	N	50	N
601	1.0	N	N	N	30	15	1,000	5	30	N	30	N
602	1.0	N	N	N	20	15	1,000	7	30	N	30	N
603	1.0	N	N	N	30	10	1,000	7	30	N	30	N
604R	1.0	N	N	N	20	10	1,000	7	30	N	50	N
604R1	1.0	N	N	<5	15	20	>1,000	7	30	10	30	N
604R2	1.0	N	N	<5	15	20	>1,000	7	30	10	30	N
605	1.0	N	N	N	30	10	1,000	5	30	N	50	N
606	1.0	30	N	N	10	10	>1,000	5	30	N	70	N
607	1.0	N	N	N	15	10	>1,000	<5	30	N	70	N
608	1.0	50	N	N	10	10	>1,000	N	30	N	100	N
609	1.0	N	N	N	15	15	>1,000	<5	30	N	70	N
610	1.0	N	N	N	15	10	>1,000	<5	30	N	70	N
611	1.0	70	N	N	15	10	>1,000	<5	30	N	70	N
612	1.0	N	N	N	20	10	>1,000	<5	30	N	30	N
613	1.0	N	N	N	20	10	>1,000	N	30	N	50	N
614	1.0	N	N	N	10	10	>1,000	5	30	N	30	N
615	1.0	N	N	5	15	10	>1,000	<5	30	N	70	N
616	1.0	N	N	5	15	10	>1,000	N	30	N	20	N
617	1.0	N	N	7	20	7	>1,000	N	30	N	50	N
623	1.0	N	N	N	20	7	>1,000	<5	30	N	30	N
624	1.0	N	N	N	20	10	>1,000	5	30	N	30	N
625	1.0	N	N	N	10	7	>1,000	<5	30	N	50	N
627	1.0	N	N	N	700	7	>1,000	<5	30	N	20	N
629	1.0	N	N	N	10	10	>1,000	5	30	N	50	N
630	1.0	N	N	N	20	10	>1,000	5	20	N	30	N
631	1.0	N	N	N	10	10	>1,000	<5	20	N	50	N
632	1.0	20	N	N	N	7	>1,000	<5	<20	N	70	N
633	1.0	N	N	N	30	20	1,000	10	30	N	15	N
634	1.0	N	N	N	30	15	>1,000	7	30	N	50	N
636	1.0	N	N	N	30	10	700	5	50	N	30	N
637	1.0	N	N	N	50	10	700	7	50	N	30	N
638	1.0	N	N	N	15	7	300	7	50	N	70	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
474	15	100	N	70	N	2,000	N	>1,000	300
475	15	50	N	300	100	500	N	>1,000	300
476	15	30	N	500	N	500	N	>1,000	200
477	15	50	N	700	<50	500	N	>1,000	200
479	15	30	N	700	N	1,000	N	>1,000	300
481	15	30	N	300	<50	300	N	>1,000	500
482	15	30	N	100	N	700	N	700	300
483	15	30	N	100	N	500	N	700	500
484	15	50	N	100	N	500	N	700	2,000
485	15	30	N	100	<50	500	N	>1,000	2,000
486	15	30	N	100	N	700	N	200	200
487	15	30	N	100	N	700	N	700	500
488	15	30	N	100	N	500	N	>1,000	1,000
601	15	30	N	100	N	700	N	700	150
602	15	50	N	100	<50	700	N	500	150
603	15	30	N	100	N	700	N	500	500
604R	15	30	N	100	N	500	N	500	500
604R1	15	20	N	100	N	500	N	500	700
604R2	15	20	N	100	N	500	N	500	700
605	15	30	N	100	N	700	N	500	500
606	15	30	N	100	50	700	N	700	700
607	15	30	N	100	N	300	N	700	500
608	15	30	N	100	70	500	N	>1,000	2,000
609	15	30	N	100	<50	1,000	N	>1,000	1,000
610	15	30	N	100	<50	500	N	>1,000	1,000
611	15	30	N	100	<50	500	N	>1,000	1,000
612	15	30	N	100	N	700	N	700	700
613	15	50	N	100	N	500	N	1,000	500
614	15	50	N	100	<50	500	N	700	500
615	15	50	N	100	N	500	N	700	1,500
616	15	50	N	100	N	500	N	700	500
617	15	30	N	100	N	500	N	1,000	700
623	15	30	N	100	N	500	N	1,000	700
624	15	20	N	100	N	500	N	700	1,000
625	15	30	N	100	N	300	N	500	700
627	15	30	N	100	N	700	N	500	100
629	15	30	N	100	N	300	N	500	1,000
630	15	20	N	100	N	300	N	1,000	700
631	15	30	N	100	N	500	N	>1,000	1,500
632	15	30	N	100	<50	500	N	500	1,500
633	15	30	N	100	N	300	N	500	N
634	15	50	N	100	N	700	N	1,000	300
636	15	70	N	100	N	1,000	N	>1,000	200
637	15	100	N	100	N	1,000	N	1,000	150
638	15	150	N	100	N	1,500	N	>1,000	700

Table 10 --Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
640	36 25 57	118 21 27	.07	.02	3.0	>1.0	700	N	N	N	N	<20
641	36 24 42	118 20 36	.07	.02	3.0	>1.0	700	N	N	N	N	20
642	36 23 48	118 20 14	.10	.02	3.0	>1.0	1,000	N	N	N	N	20
643	36 23 36	118 19 52	.10	.03	5.0	>1.0	1,000	N	N	N	N	<20
644	36 23 27	118 19 38	.10	.02	5.0	>1.0	1,000	N	N	N	N	<20
645	36 21 44	118 20 28	.10	.02	5.0	>1.0	700	.7	N	<10	N	20
646	36 20 58	118 21 15	.07	.02	5.0	>1.0	1,000	1.5	N	N	N	20
647	36 21 39	118 21 30	.07	.10	3.0	>1.0	700	1.5	N	N	N	<20
648	36 21 33	118 22 28	.10	.70	3.0	>1.0	1,000	N	N	N	N	<20
650	36 24 4	118 17 10	.07	.03	5.0	>1.0	1,000	N	N	N	N	<20
650R	36 24 4	118 17 10	.10	.02	3.0	>1.0	700	N	N	N	N	<20
650R1	36 24 4	118 17 10	.10	.02	7.0	>1.0	500	N	N	N	N	<20
650R2	36 24 4	118 17 10	.10	.02	7.0	>1.0	700	N	N	N	N	20
651	36 23 14	118 17 7	.10	.02	5.0	>1.0	1,000	N	N	N	N	<20
652	36 23 10	118 17 25	.10	.05	5.0	>1.0	1,000	N	N	N	N	20
653	36 22 44	118 17 12	.10	.03	5.0	>1.0	1,000	N	N	N	N	20
654	36 22 3	118 17 39	.20	.02	5.0	>1.0	500	N	N	N	N	20
655	36 22 40	118 16 31	.15	.03	3.0	>1.0	500	N	N	N	N	20
656	36 22 35	118 15 52	.15	.03	5.0	>1.0	500	N	<200	N	N	20
663	36 20 57	118 33 17	.70	.10	3.0	>1.0	500	N	N	N	10	20
664	36 20 49	118 33 33	.15	.10	5.0	>1.0	500	N	N	<10	N	20
687	36 19 50	118 33 24	.10	.10	5.0	>1.0	500	N	N	<10	N	30
688	36 19 8	118 32 51	.10	.10	3.0	>1.0	500	N	N	N	N	<20
689	36 19 8	118 32 57	.15	.10	3.0	>1.0	700	N	N	N	200	20
690	36 18 0	118 32 8	.15	.20	3.0	>1.0	500	N	<200	N	200	30
695	36 17 35	118 37 6	.15	.15	3.0	>1.0	500	N	N	N	N	50
696	36 17 34	118 37 8	.15	.20	1.5	>1.0	1,000	N	N	N	20	70
800	36 21 43	118 13 36	.15	.02	10.0	>1.0	1,000	N	N	N	N	20
801	36 21 32	118 14 38	.15	.05	7.0	>1.0	1,000	N	N	N	N	30
803	36 20 0	118 14 4	.15	.03	7.0	>1.0	1,000	N	N	N	N	30
804	36 19 36	118 14 34	.15	.05	7.0	>1.0	1,000	N	N	N	N	20
804R	36 19 36	118 14 34	.15	.10	7.0	>1.0	1,000	N	N	N	N	30
804R1	36 19 36	118 14 34	.15	.07	7.0	>1.0	500	N	N	N	N	50
804R2	36 19 36	118 14 34	.15	.07	5.0	>1.0	700	N	N	N	N	70
805	36 18 55	118 14 10	.15	.05	5.0	>1.0	1,500	N	N	N	N	20
806	36 19 27	118 13 8	.15	.05	7.0	>1.0	1,000	N	N	N	N	30
807	36 24 37	118 7 26	.15	.05	5.0	>1.0	1,500	N	N	<10	N	<20
808	36 24 45	118 7 21	.15	.05	5.0	>1.0	700	N	N	<10	N	<20
809	36 25 10	118 6 9	.15	.05	5.0	>1.0	1,000	N	N	<10	N	<20
810	36 25 59	118 5 24	.15	.03	5.0	>1.0	1,000	<.5	N	<10	N	20
811	36 26 6	118 5 30	.15	.03	5.0	>1.0	1,000	N	N	<10	N	100
812	36 16 19	118 16 5	.15	.05	5.0	>1.0	1,500	N	N	<10	N	70
813	36 16 56	118 16 21	.15	.05	3.0	>1.0	1,000	<.5	N	<10	N	20
814	36 16 27	118 16 30	.15	.03	5.0	>1.0	1,500	<.5	N	N	N	20
815	36 15 46	118 17 12	.15	.05	5.0	>1.0	1,000	N	N	N	N	30

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
640	1.0	N	N	N	30	15	>1,000	7	30	N	30	N
641	1.0	N	N	N	20	10	>1,000	7	30	N	50	N
642	1.0	N	N	N	15	10	>1,000	10	30	N	30	N
643	1.0	N	N	N	20	10	>1,000	7	30	N	50	N
644	1.0	N	N	N	30	10	>1,000	7	30	N	30	N
645	1.0	N	N	N	30	10	>1,000	7	30	N	50	N
646	1.0	N	N	N	10	7	>1,000	5	50	N	70	N
647	1.0	N	N	N	100	7	>1,000	5	30	N	100	N
648	1.0	N	N	N	300	7	>1,000	7	30	N	50	N
650	1.0	N	N	N	30	10	>1,000	5	30	N	50	N
650R	1.0	N	N	N	30	10	>1,000	<5	30	N	30	N
650R1	1.0	N	N	N	20	15	>1,000	7	30	10	30	N
650R2	1.0	N	N	N	20	15	>1,000	7	30	10	30	N
651	1.0	N	N	N	30	10	>1,000	5	30	N	30	N
652	1.0	N	N	N	30	10	>1,000	5	30	N	50	N
653	1.0	N	N	N	30	10	>1,000	5	30	N	50	N
654	1.0	N	N	N	15	10	1,000	7	30	N	50	N
655	1.0	N	N	N	10	7	1,000	7	30	N	50	N
656	1.0	N	N	N	15	10	>1,000	5	30	N	70	N
663	1.0	700	N	300	30	150	500	7	50	N	50	N
664	1.0	10	N	N	20	10	500	5	50	N	30	N
687	1.0	200	N	N	50	10	500	7	70	N	30	N
688	1.0	100	N	N	30	10	700	7	50	N	30	N
689	1.0	300	N	N	30	7	1,000	50	30	N	300	N
690	1.0	100	N	N	50	10	700	7	30	N	50	N
695	1.0	N	N	N	20	15	150	5	30	N	100	N
696	1.0	100	N	N	50	10	150	<5	30	N	70	<100.
800	N	N	N	N	15	15	>1,000	5	30	N	30	N
801	N	N	N	N	20	10	>1,000	15	30	N	30	N
803	N	N	N	N	20	10	>1,000	7	30	N	20	N
804	N	N	N	N	20	15	>1,000	7	30	N	15	N
804R	N	N	N	N	30	15	>1,000	7	30	N	20	N
804R1	1.0	N	N	N	20	20	>1,000	5	30	10	15	N
804R2	1.0	N	N	N	30	20	>1,000	5	30	10	15	N
805	N	N	N	N	15	10	>1,000	7	30	N	15	N
806	N	N	N	N	30	10	>1,000	7	30	N	15	N
807	N	N	N	N	N	15	>1,000	7	50	N	20	N
808	N	N	N	N	N	15	>1,000	7	30	N	20	N
809	N	N	N	N	N	15	>1,000	7	50	N	20	N
810	N	N	N	N	N	15	>1,000	7	30	N	20	N
811	N	N	N	N	N	15	>1,000	7	30	N	20	N
812	N	N	N	N	10	20	>1,000	<5	50	N	15	N
813	N	N	N	N	N	20	>1,000	5	50	N	20	N
814	N	N	N	N	N	15	>1,000	7	30	N	20	N
815	N	N	N	N	20	20	>1,000	7	30	N	15	N

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
640	15	30	N	100	N	500	N	>1,000	300
641	15	30	N	100	N	700	N	>1,000	500
642	15	30	N	100	N	500	N	>1,000	500
643	15	30	N	100	N	700	N	>1,000	500
644	15	30	N	100	N	700	N	700	500
645	15	70	N	100	N	1,500	N	1,000	300
646	15	50	N	100	N	1,000	N	>1,000	1,000
647	15	50	N	100	N	700	N	>1,000	1,000
648	15	50	N	100	N	700	N	500	500
650	15	30	N	100	N	500	N	1,000	700
650R	15	30	N	100	N	500	N	1,000	1,000
650R1	15	15	N	100	N	500	N	500	1,000
650R2	15	15	N	100	<50	300	N	700	1,500
651	15	30	N	100	N	500	N	1,000	700
652	15	30	N	100	N	500	N	1,000	1,000
653	15	30	N	100	N	500	N	700	700
654	15	20	N	100	<50	500	N	>1,000	1,000
655	15	20	N	100	N	500	N	>1,000	1,000
656	15	20	N	100	N	500	N	>1,000	2,000
663	15	100	N	100	500	700	N	>1,000	<100
664	15	50	N	100	<50	1,000	N	>1,000	100
687	15	50	N	100	70	1,000	N	>1,000	150
688	15	50	N	100	70	700	N	>1,000	150
689	15	300	N	100	2,000	700	N	>1,000	200
690	15	70	N	100	200	700	N	>1,000	150
695	15	30	N	100	70	700	N	>1,000	N
696	15	30	N	100	70	500	N	>1,000	N
800	15	30	N	150	N	300	N	1,000	1,000
801	15	30	N	150	50	300	N	1,000	700
803	15	30	N	150	N	700	N	1,000	700
804	15	50	N	200	N	500	N	1,000	300
804R	15	50	N	150	N	500	N	1,000	200
804R1	15	30	N	100	<50	500	N	500	100
804R2	15	30	N	100	N	700	N	500	150
805	15	50	N	150	N	500	N	1,000	300
806	15	30	N	150	N	500	N	>1,000	150
807	15	50	N	150	N	1,000	N	>1,000	500
808	15	50	N	150	N	1,000	N	1,000	300
809	15	70	N	150	N	1,000	N	1,000	300
810	15	30	N	150	N	700	N	1,000	300
811	15	30	N	150	N	2,000	N	>1,000	300
812	15	50	N	150	<50	2,000	N	1,000	N
813	15	70	N	150	N	2,000	N	1,000	200
814	15	100	N	150	N	2,000	N	>1,000	100
815	15	50	N	150	N	2,000	N	1,000	100

Table 10--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, , California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
816	36 14 51	118 17 43	.15	.10	3.0	>1.0	1,000	3.0	N	N	N	50
817	36 14 3	118 17 59	.20	.10	5.0	>1.0	1,500	2.0	N	N	N	50
818	36 15 18	118 19 4	.15	.10	5.0	>1.0	700	.5	N	<10	N	30
819	36 14 49	118 19 50	.20	.10	5.0	>1.0	1,000	2.0	N	N	N	50
820	36 14 50	118 20 2	.15	.10	7.0	>1.0	1,000	<.5	N	N	N	50
821	36 15 19	118 22 32	.15	.07	7.0	>1.0	700	N	N	N	N	30
822	36 15 50	118 22 4	.15	.10	5.0	>1.0	1,500	N	N	N	N	20
823	36 15 5	118 22 4	.15	.07	7.0	>1.0	1,500	N	N	N	N	30
824	36 14 34	118 22 41	.15	.10	7.0	>1.0	1,000	N	N	N	N	20
825	36 14 20	118 22 34	.15	.05	5.0	>1.0	1,500	N	N	<10	N	20
827	36 13 16	118 21 2	.15	.05	3.0	>1.0	1,000	N	N	N	N	50
831	36 10 12	118 24 15	.15	1.00	3.0	>1.0	1,000	N	N	N	N	70
832	36 26 37	118 9 39	.15	.02	5.0	>1.0	1,000	N	N	N	N	N
838	36 20 14	118 15 15	.15	.02	5.0	>1.0	700	N	N	N	N	20
838R1	36 20 14	118 15 15	.15	.02	5.0	>1.0	500	N	N	N	N	20
838R2	36 20 14	118 15 15	.15	.02	7.0	>1.0	500	N	N	N	N	20
843	36 25 13	118 12 6	.20	.03	5.0	>1.0	1,000	<.5	N	N	N	<20
844	36 25 21	118 13 52	.20	.02	7.0	>1.0	1,000	N	N	N	N	<20
845	36 24 58	118 14 26	.15	.02	7.0	>1.0	1,000	N	N	N	N	N
846	36 23 56	118 14 51	.15	.02	7.0	>1.0	1,000	N	N	N	N	<20
847	36 23 15	118 14 51	.20	.02	7.0	>1.0	700	.5	N	N	N	<20
847R1	36 23 15	118 14 51	.20	<.02	7.0	>1.0	700	N	N	N	N	N
847R2	36 23 15	118 14 51	.30	<.02	3.0	>1.0	700	N	N	N	N	N
849	36 24 30	118 12 7	.20	.02	7.0	>1.0	1,000	N	N	N	N	<20
850	36 24 35	118 11 24	.20	.02	7.0	>1.0	1,000	N	N	N	N	70
862	36 15 15	118 31 3	.30	.50	7.0	>1.0	700	N	N	N	300	100
862R1	36 15 15	118 31 3	.30	.50	7.0	1.0	500	N	N	N	200	70
862R2	36 15 15	118 31 3	.30	.50	10.0	1.0	500	N	N	N	200	100

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
816	N	N	N	N	N	15	>1,000	7	30	N	15	N
817	N	N	N	N	20	20	>1,000	7	30	N	15	N
818	N	N	N	N	15	20	>1,000	10	50	N	30	N
819	N	N	N	N	30	30	>1,000	7	30	N	50	N
820	N	N	N	N	30	20	>1,000	7	30	N	20	N
821	N	N	N	N	30	20	>1,000	7	30	N	15	N
822	N	N	N	N	20	30	>1,000	7	30	N	30	N
823	N	N	N	N	20	20	>1,000	7	50	N	30	N
824	N	N	N	N	30	20	>1,000	7	30	N	20	N
825	N	N	N	N	15	20	>1,000	7	70	N	30	N
827	N	N	N	N	15	20	>1,000	7	30	N	20	N
831	N	N	N	N	100	20	>1,000	10	50	N	30	N
832	N	N	N	N	10	20	>1,000	<5	30	N	70	N
838	N	N	N	N	15	20	>1,000	7	30	N	30	N
838R1	1.0	N	N	N	15	15	>1,000	15	30	30	20	N
838R2	1.0	N	N	N	10	20	>1,000	15	30	30	30	N
843	1.0	N	N	N	10	20	1,000	5	30	N	30	N
844	1.0	N	N	N	10	7	>1,000	5	30	N	30	N
845	N	N	N	N	N	20	>1,000	7	30	N	20	N
846	N	N	N	N	10	20	>1,000	7	30	N	30	N
847	1.0	N	N	N	10	7	>1,000	7	30	N	20	N
847R1	1.0	N	N	N	10	20	>1,000	15	30	15	20	N
847R2	1.0	N	N	N	10	20	>1,000	15	30	20	15	N
849	1.0	N	N	N	15	10	>1,000	<5	30	N	50	N
850	1.0	N	N	N	N	10	>1,000	N	30	N	70	N
862	N	N	N	N	100	20	300	<5	20	N	20	N
862R1	1.0	N	N	N	70	5	200	10	<20	10	15	N
862R2	1.0	N	N	N	100	5	200	10	<20	10	15	N

Table 10.--Data for heavy-mineral, non-magnetic concentrate samples from the Golden Trout Wilderness, California--continued

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
816	15	50	N	150	N	1,500	N	>1,000	150
817	15	50	N	150	N	1,500	N	>1,000	100
818	15	50	N	150	N	700	N	>1,000	150
819	15	50	N	200	N	700	N	>1,000	150
820	15	50	N	200	N	700	N	>1,000	100
821	15	30	N	200	N	1,000	N	>1,000	200
822	15	30	N	150	N	500	N	1,000	300
823	15	50	N	150	N	700	N	>1,000	500
824	15	50	N	150	N	700	N	>1,000	100
825	15	70	N	150	N	700	N	>1,000	300
827	15	50	N	150	N	1,000	N	>1,000	200
831	15	30	N	150	N	700	N	1,000	200
832	15	30	N	150	N	500	N	1,000	700
838	15	30	N	150	N	500	N	>1,000	1,000
838R1	15	15	N	100	N	500	N	700	300
838R2	15	15	N	100	N	500	N	700	500
843	15	50	N	100	N	500	N	>1,000	700
844	15	50	N	100	N	500	N	1,000	1,000
845	15	30	N	150	N	500	N	>1,000	300
846	15	30	N	150	N	500	N	700	500
847	15	30	N	100	N	500	N	700	300
847R1	15	20	N	100	<50	500	N	500	300
847R2	15	20	N	100	N	300	N	500	200
849	15	30	N	100	N	500	N	1,000	1,500
850	15	30	N	100	<50	300	N	1,000	2,000
862	15	50	N	150	50	200	N	1,000	200
862R1	15	30	100	100	100	200	N	700	150
862R2	15	30	150	100	70	200	N	700	150

Table 11.--Rock samples from the Golden Trout Wilderness, California

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
Granodiorite of Doe Meadow												
937	36 9 15	118 23 54	3.00	1.00	2.00	.30	700	N	N	N	30	700
956	36 14 51	118 23 45	2.00	1.00	2.00	.30	300	N	N	N	N	700
9140	36 19 29	118 22 40	2.00	1.00	1.50	.20	500	N	N	N	N	500
943	36 17 14	118 23 16	3.00	1.50	1.50	.30	500	N	N	N	30	700
Granite of Grasshopper Flat												
DJ46	36 16 2	118 24 0	1.50	.70	1.00	.15	700	N	N	N	N	700
957	36 14 43	118 24 0	1.50	.70	1.50	.20	500	N	N	N	N	500
939	36 12 1	118 23 25	1.50	.70	1.50	.15	700	N	N	N	N	700
Alaskite of Kern Peak												
962	36 16 36	118 14 33	1.50	.30	1.50	.15	500	N	N	N	N	1,000
DJ74	36 15 4	118 12 41	.70	.20	.70	.15	300	N	N	N	N	1,000
913	36 18 31	118 17 36	.70	.20	.50	.10	700	N	N	N	N	500
Granodiorite of Schaeffer Meadow												
9156	36 16 11	118 12 9	3.00	1.50	2.00	.30	500	N	N	N	10	700
970	36 15 4	118 11 57	3.00	1.50	2.00	.50	500	N	N	N	10	500
DJ59	36 15 38	118 16 57	3.00	1.00	2.00	.30	500	N	N	N	N	1,000
Granite of Window Cliffs												
964	36 16 50	118 18 41	1.50	.30	1.00	.20	500	N	N	N	N	1,000
9118	36 12 30	118 19 25	1.00	.50	1.00	.20	500	N	N	N	N	700
DJ92	36 18 36	118 18 29	2.00	1.00	1.50	.30	500	N	N	N	N	700
DJ97	36 23 4	118 22 17	1.50	.70	1.50	.30	300	N	N	N	N	700
9136	36 11 26	118 19 3	3.00	1.00	2.00	.30	700	N	N	N	N	200
919	36 19 48	118 19 41	1.50	.70	1.50	.30	300	N	N	N	N	500
Alaskite of Coyote Pass												
946	36 16 18	118 27 14	1.00	.30	1.00	.20	500	N	N	N	N	700
972	36 24 6	118 33 9	.70	.03	.20	.07	700	N	N	N	N	200
9131	36 18 31	118 28 4	.30	.03	.20	.07	200	N	N	N	N	300
Alaskite of Olancha Peak												
DJ51	36 15 9	118 4 15	1.00	.10	.50	.30	700	N	N	N	N	700
9159	36 16 9	118 8 20	.70	.15	.70	.15	500	N	N	N	N	700
Paradise Granodiorite												
922	36 21 10	118 16 7	2.00	.70	2.00	.20	500	N	N	N	N	300
982	36 25 30	118 22 50	1.50	.70	1.50	.30	500	N	N	N	N	500
9146	36 22 16	118 18 21	1.00	.50	1.50	.15	300	N	N	N	N	500
954	36 17 6	118 3 20	2.00	1.00	1.50	.50	500	N	N	N	N	1,000
DJ24	36 23 32	118 14 49	1.00	1.00	1.50	.30	300	N	N	N	N	700

Table 11.--Rock samples from the Golden Trout Wilderness, California

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
					Granodiorite of Doe Meadow						
937	1.0	N	N	15	10	30	30	N	N	15	20
956	<1.0	N	N	20	10	20	70	N	N	20	15
9140	1.5	N	N	15	15	15	50	N	N	20	15
943	1.0	N	N	20	15	20	50	N	N	15	30
					Granite of Grasshopper Flat						
DJ46	1.5	N	N	7	N	5	50	N	N	7	30
957	1.5	N	N	7	N	5	30	N	N	5	30
939	2.0	N	N	7	N	7	30	N	N	5	30
					Alaskite of Kern Peak						
962	1.5	N	N	N	N	5	50	N	N	<5	30
DJ74	1.0	N	N	N	N	10	70	N	N	<5	50
913	1.5	N	N	N	N	<5	20	N	N	5	30
					Granodiorite of Schaeffer Meadow						
9156	1.0	N	N	20	15	5	30	N	N	15	15
970	1.0	N	N	20	15	15	30	N	N	20	10
DJ59	1.0	N	N	15	10	30	50	N	N	10	30
					Granite of Window Cliffs						
964	1.0	N	N	N	N	<5	70	N	N	5	30
9118	1.0	N	N	5	<10	5	50	N	N	<5	30
DJ92	1.0	N	N	20	10	50	50	N	N	10	20
DJ97	1.5	N	N	10	<10	30	100	N	N	5	15
9136	1.5	N	N	15	N	50	70	N	N	7	20
919	1.5	N	N	10	10	20	70	N	N	10	20
					Alaskite of Coyote Pass						
946	2.0	N	N	<5	N	N	70	N	N	5	30
972	2.0	N	N	N	N	N	50	N	<20	<5	50
9131	<1.0	N	N	N	N	N	30	N	N	<5	30
					Alaskite of Olancha Peak						
DJ51	N	N	N	N	N	<5	100	N	N	<5	30
9159	2.0	N	N	N	N	N	50	N	<20	<5	30
					Paradise Granodiorite						
922	1.0	N	N	7	<10	10	50	N	N	5	20
982	1.0	N	N	7	N	5	50	N	N	5	30
9146	1.5	N	N	5	N	5	100	N	N	5	30
954	1.0	N	N	10	10	15	70	7	N	7	15
DJ24	1.0	N	N	7	<10	7	50	N	N	10	20

Table 11.--Rock samples from the Golden Trout Wilderness, California

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
Granodiorite of Doe Meadow										
937	N	15	N	500	150	N	30	N	70	N
956	N	15	N	300	150	N	30	N	70	N
9140	N	15	N	300	100	N	20	N	50	N
943	N	15	N	500	150	N	20	N	100	N
Granite of Grasshopper Flat										
DJ46	N	7	N	500	100	N	15	N	70	N
957	N	7	N	500	100	N	15	N	150	N
939	N	5	N	500	100	N	15	N	50	N
Alaskite of Kern Peak										
962	N	5	N	700	70	N	15	N	150	N
DJ74	N	5	N	300	30	N	15	N	100	N
913	N	5	N	150	50	N	15	N	70	N
Granodiorite of Schaeffer Meadow										
9156	N	15	N	700	150	N	20	N	100	N
970	N	20	N	700	200	N	30	N	150	N
DJ59	N	15	N	700	150	N	30	N	100	N
Granite of Window Cliffs										
964	N	7	N	300	100	N	20	N	50	N
9118	N	5	N	300	50	N	15	N	100	N
DJ92	N	15	N	700	150	N	20	N	150	N
DJ97	N	10	N	500	100	N	20	N	100	N
9136	N	10	N	200	100	N	30	N	50	N
919	N	7	N	300	100	N	30	N	50	N
Alaskite of Coyote Pass										
946	N	<5	N	300	70	N	20	N	70	N
972	N	5	N	N	10	N	30	N	100	N
9131	N	<5	N	N	10	N	10	N	100	N
Alaskite of Olancha Peak										
DJ51	N	10	N	N	20	N	10	N	200	N
9159	N	5	N	150	20	N	30	N	70	N
Paradise Granodiorite										
922	N	7	N	500	100	N	10	N	30	N
982	N	7	N	500	100	N	10	N	50	N
9146	N	7	N	500	70	N	<10	N	50	N
954	N	10	N	700	150	N	15	N	70	N
DJ24	N	7	N	700	100	N	10	N	50	N

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
					Aplite							
DJ68	36 15 2	118 16 28	.30	.20	.50	.10	200	<.5	N	N	N	700
DJ91	36 20 5	118 18 37	1.50	.30	1.00	.20	300	N	N	N	N	700
					Granite of Carroll Creek							
9112	36 24 30	118 8 1	1.00	.50	1.00	.20	500	N	N	N	N	700
9150	36 26 33	118 8 14	.50	.20	.70	.10	200	N	N	N	N	300
9122	36 24 41	118 3 37	1.50	.70	.50	.20	700	N	N	N	N	700
911	36 25 7	118 4 53	1.00	.20	.70	.15	300	N	N	N	N	500
					Alaskite of Hells Hole							
9141	36 13 52	118 21 42	.50	.02	.15	.05	200	N	N	N	N	200
9120	36 11 29	118 21 24	.70	.15	.30	.10	300	N	N	N	N	300
944	36 16 14	118 21 23	.15	.10	.50	.10	200	N	N	N	N	700
					Granodiorite							
9147	36 23 9	118 6 46	2.00	1.00	1.50	.50	700	<.5	N	N	N	700
9126	36 15 41	118 3 7	1.50	1.00	2.00	.30	500	N	N	N	N	500
					Mafic Plutonic Rock							
9106	36 13 55	118 14 41	5.00	3.00	5.00	.20	700	N	N	N	N	150
9160	36 11 33	118 17 27	2.00	1.00	1.50	.20	700	N	N	N	N	700
					Granite of Little Kern Lake Creek							
DJ90	36 19 0	118 24 49	.50	.20	.50	.10	300	N	N	N	N	700
DJ88	36 17 37	118 25 58	1.00	.30	.50	.20	200	N	N	N	N	700
					Granite of Little Whitney Meadow							
DJ94	36 22 36	118 21 26	1.50	.70	1.50	.20	500	N	N	N	N	700
					Alaskite of Maggie Mountain							
DJ35	36 15 41	118 37 1	1.00	.02	.20	.05	300	N	N	N	N	150
975	36 16 35	118 37 20	.30	<.02	.15	.02	200	N	N	N	N	150
					Alaskite of Moses Mountain							
976	36 17 39	118 40 35	1.00	<.02	.15	.07	700	<.5	N	N	N	1,000
					Granodiorite of Peck's Canyon							
926	36 14 17	118 35 0	2.00	1.00	1.50	.30	700	N	N	N	N	300
DJ27	36 15 35	118 35 23	1.50	1.00	1.50	.30	500	N	N	N	N	300
974	36 16 18	118 34 14	1.00	.30	1.50	.15	500	N	N	N	N	500

Table 11.--Rock samples from the Golden Trout Wilderness, California--Continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
					Aplite						
DJ68	1.5	N	N	N	N	<5	50	N	N	<5	30
DJ91	2.0	N	N	5	N	<5	100	N	N	5	30
					Granite of Carroll Creek						
9112	1.5	N	N	<5	N	<5	70	N	N	<5	30
9150	2.0	N	N	N	N	<5	70	N	N	15	20
9122	1.0	N	N	N	N	<5	50	N	20	5	30
911	2.0	N	N	N	N	<5	50	N	N	<5	30
					Alaskite of Hells Hole						
9141	1.0	N	N	N	N	N	50	N	N	<5	20
9120	1.5	N	N	N	N	<5	30	N	N	<5	30
944	<1.0	N	N	10	N	<5	70	N	N	5	30
					Granodiorite						
9147	1.5	N	N	7	N	20	50	N	N	<5	20
9126	1.5	N	N	7	10	5	70	N	N	20	15
					Mafic Plutonic Rock						
9106	N	N	N	50	100	100	N	N	N	30	N
9160	1.0	N	N	5	N	15	70	N	N	<5	30
					Granite of Little Kern Lake Creek						
DJ90	1.0	N	N	10	N	<5	70	N	N	<5	30
DJ88	2.0	N	N	N	N	5	70	N	<20	<5	30
					Granite of Little Whitney Meadow						
DJ94	1.5	N	N	5	N	7	50	N	N	<5	20
					Alaskite of Maggie Mountain						
DJ35	1.5	N	N	N	N	N	30	N	20	<5	50
975	2.0	10	N	N	N	N	N	N	N	<5	50
					Alaskite of Moses Mountain						
976	2.0	N	N	N	N	5	50	N	20	<5	30
					Granodiorite of Peck's Canyon						
926	1.0	N	N	15	30	20	50	N	N	20	30
DJ27	1.0	N	N	7	20	10	20	N	N	10	15
974	2.0	N	N	N	N	N	30	N	N	5	30

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
					Aplite					
DJ68	N	<5	N	150	30	N	15	N	30	N
DJ91	N	7	N	300	70	N	30	N	70	N
					Granite of Carroll Creek					
9112	N	7	N	300	70	N	20	N	150	N
9150	N	5	N	150	30	N	10	N	30	N
9122	N	5	N	300	100	N	20	N	100	N
911	N	<5	N	200	50	N	10	N	50	N
					Alaskite of Hells Hole					
9141	N	5	N	N	10	N	N	N	30	N
9120	N	<5	N	100	30	N	N	N	50	N
944	N	N	N	100	30	N	10	N	100	N
					Granodiorite					
9147	N	10	N	300	100	N	30	N	50	N
9126	N	10	N	700	100	N	20	N	100	N
					Mafic Plutonic Rock					
9106	N	30	N	700	300	N	15	N	20	N
9160	N	7	N	700	100	N	15	N	70	N
					Granite of Little Kern Lake Creek					
DJ90	N	N	N	200	20	N	N	N	70	N
DJ88	N	5	<10	150	50	N	20	N	150	N
					Granite of Little Whitney Meadow					
DJ94	N	7	N	500	70	N	30	N	150	N
					Alaskite of Maggie Mountain					
DJ35	N	7	N	N	N	N	30	N	70	N
975	N	<5	10	N	N	N	30	N	70	N
					Alaskite of Moses Mountain					
976	N	<5	<10	N	N	N	50	N	150	N
					Granodiorite of Peck's Canyon					
926	N	15	N	300	100	N	20	N	100	N
DJ27	N	10	N	300	100	N	15	N	100	N
974	N	<5	N	300	50	N	15	N	100	N

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
					Granodiorite of Quinn Peak							
9162	36 23 2	118 35 25	2.00	1.00	2.00	.20	500	N	N	N	N	300
DJ77	36 20 54	118 34 38	1.50	.70	1.50	.30	500	N	N	N	N	500
					Granodiorite of Redrock Meadow							
9108	36 13 50	118 15 8	2.00	.70	1.50	.30	700	N	N	N	N	700
DJ10	36 15 30	118 17 24	.50	.20	.30	.10	500	N	N	N	N	300
DJ66	36 16 7	118 15 34	1.50	.70	1.50	.20	500	N	N	N	N	1,500
968	36 12 52	118 15 58	1.00	.20	1.00	.20	500	<.5	N	N	N	500
					Granodiorite of Sheep Creek							
935	36 17 41	118 28 38	2.00	1.00	2.00	.30	700	N	N	N	N	1,000
DJ85	36 17 20	118 26 58	2.00	.50	1.00	.30	500	N	N	N	N	700
					Granodiorite of Tower Rock							
DJ98	36 22 53	118 23 31	1.00	.50	1.00	.15	300	N	N	N	N	1,000
DJ99	36 22 18	118 23 56	1.00	.70	1.00	.20	300	N	N	N	N	700
					Granodiorite of Volcano Falls							
9167	36 20 57	118 22 43	2.00	.70	2.00	.30	300	N	N	N	15	700
980	36 21 46	118 22 39	2.00	.70	2.00	.30	300	N	N	N	N	700
941	36 19 51	118 23 23	2.00	1.00	1.50	.20	500	N	N	N	N	1,000
					Whitney Granodiorite							
924	36 27 48	118 6 44	.70	.20	1.00	.20	200	N	N	N	N	700
DJ25	36 25 38	118 11 23	2.00	.70	1.00	.30	700	N	N	N	N	300
99	36 22 59	118 11 15	5.00	.70	1.00	.20	300	N	N	N	N	200
9101	36 17 24	118 4 33	1.00	.30	1.00	.20	300	N	N	N	N	500
94	36 18 23	118 4 26	.70	.50	1.00	.20	500	N	N	N	N	700
948	36 23 11	118 8 7	1.00	.20	.70	.15	300	N	N	N	N	500
95	36 21 34	118 6 30	1.00	.20	.70	.10	200	N	N	N	N	700
					Granite of White Mountain							
DJ36	36 15 13	118 31 37	1.00	.50	1.00	.20	300	N	N	N	N	200
936	36 15 21	118 29 41	1.00	.20	.70	.20	200	N	N	N	N	700
9130	36 15 38	118 28 15	1.50	.50	1.50	.30	500	N	N	N	N	500
927	36 14 7	118 31 14	1.00	.30	1.50	.20	300	2.0	N	N	N	500
					Metamorphic Rocks--Undifferentiated							
DJ78A	36 19 52	118 32 22	2.00	.70	.70	.30	300	N	N	N	N	700
DJ40	36 12 55	118 33 28	2.00	.50	.70	.50	500	N	N	N	N	300
DJ32	36 15 40	118 32 48	2.00	.30	.50	.20	500	1.0	N	N	70	700
DJ41	36 12 55	118 33 11	1.00	1.00	.70	.30	500	N	N	N	100	300
DJ79	36 20 16	118 32 49	1.50	.70	1.00	.30	1,000	N	N	N	N	700
DJ39	36 13 1	118 33 39	5.00	.20	<.05	.10	700	N	N	N	10	200

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
Granodiorite of Quinn Peak											
9162	1.0	N	N	15	20	<5	20	N	N	10	20
DJ77	1.5	N	N	7	15	5	30	N	N	5	30
Granodiorite of Redrock Meadow											
9108	1.0	N	N	7	N	20	50	N	N	<5	15
DJ10	1.5	N	N	N	N	N	70	N	N	<5	30
DJ66	1.0	N	N	5	N	5	30	N	N	<5	20
968	1.5	N	N	N	N	<5	70	N	N	5	20
Granodiorite of Sheep Creek											
935	1.5	N	N	10	20	10	70	N	N	7	30
DJ85	1.5	N	N	5	<10	5	70	N	N	<5	30
Granodiorite of Tower Rock											
DJ98	1.5	N	N	<5	N	10	50	N	N	7	30
DJ99	1.0	N	N	7	10	15	70	5	N	10	30
Granodiorite of Volcano Falls											
9167	1.0	N	N	15	<10	10	30	<5	N	7	20
980	1.0	N	N	15	10	15	30	N	N	7	15
941	1.0	N	N	7	10	15	50	N	N	10	30
Whitney Granodiorite											
924	1.5	N	N	N	N	5	50	N	N	<5	30
DJ25	1.5	N	N	<5	N	15	70	N	N	<5	30
99	1.5	N	N	5	N	5	50	N	N	<5	30
9101	1.5	N	N	N	N	5	50	N	N	<5	30
94	1.5	N	N	N	10	10	300	N	N	<5	30
948	1.5	N	N	7	N	50	30	N	N	5	50
95	1.5	N	N	N	N	20	30	N	N	<5	50
Granite of White Mountain											
DJ36	1.5	N	N	<5	N	N	30	N	N	<5	20
936	1.5	N	N	N	N	<5	30	N	N	<5	30
9130	1.5	N	N	<5	<10	15	70	N	N	<5	30
927	1.5	N	N	5	<10	<5	50	N	N	<5	30
Metamorphic Rocks--Undifferentiated											
DJ78A	1.5	N	N	5	10	5	50	N	N	5	30
DJ40	2.0	N	N	15	70	<5	30	N	N	20	15
DJ32	1.5	15	N	5	N	<5	70	5	N	<5	50
DJ41	2.0	N	N	10	50	<5	30	N	N	15	70
DJ79	1.5	N	N	<5	20	15	50	N	N	15	30
DJ39	1.5	N	N	<5	10	<5	N	N	N	5	N

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
					Granodiorite of Quinn Peak						
9162	1.0	N	N	15	20	<5	20	N	N	10	20
DJ77	1.5	N	N	7	15	5	30	N	N	5	30
					Granodiorite of Redrock Meadow						
9108	1.0	N	N	7	N	20	50	N	N	<5	15
DJ10	1.5	N	N	N	N	N	70	N	N	<5	30
DJ66	1.0	N	N	5	N	5	30	N	N	<5	20
968	1.5	N	N	N	N	<5	70	N	N	5	20
					Granodiorite of Sheep Creek						
935	1.5	N	N	10	20	10	70	N	N	7	30
DJ85	1.5	N	N	5	<10	5	70	N	N	<5	30
					Granodiorite of Tower Rock						
DJ98	1.5	N	N	<5	N	10	50	N	N	7	30
DJ99	1.0	N	N	7	10	15	70	5	N	10	30
					Granodiorite of Volcano Falls						
9167	1.0	N	N	15	<10	10	30	<5	N	7	20
980	1.0	N	N	15	10	15	30	N	N	7	15
941	1.0	N	N	7	10	15	50	N	N	10	30
					Whitney Granodiorite						
924	1.5	N	N	N	N	5	50	N	N	<5	30
DJ25	1.5	N	N	<5	N	15	70	N	N	<5	30
99	1.5	N	N	5	N	5	50	N	N	<5	30
9101	1.5	N	N	N	N	5	50	N	N	<5	30
94	1.5	N	N	N	10	10	300	N	N	<5	30
948	1.5	N	N	7	N	50	30	N	N	5	50
95	1.5	N	N	N	N	20	30	N	N	<5	50
					Granite of White Mountain						
DJ36	1.5	N	N	<5	N	N	30	N	N	<5	20
936	1.5	N	N	N	N	<5	30	N	N	<5	30
9130	1.5	N	N	<5	<10	15	70	N	N	<5	30
927	1.5	N	N	5	<10	<5	50	N	N	<5	30
					Metamorphic Rocks--Undifferentiated						
DJ78A	1.5	N	N	5	10	5	50	N	N	5	30
DJ40	2.0	N	N	15	70	<5	30	N	N	20	15
DJ32	1.5	15	N	5	N	<5	70	5	N	<5	50
DJ41	2.0	N	N	10	50	<5	30	N	N	15	70
DJ79	1.5	N	N	<5	20	15	50	N	N	15	30
DJ39	1.5	N	N	<5	10	<5	N	N	N	5	N

Table 11.--Rock samples from the Golden Trout Wilderness, California--Continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
					Granodiorite of Quinn Peak					
9162	N	10	N	500	150	N	15	N	70	N
DJ77	N	10	N	300	100	N	15	N	70	N
					Granodiorite of Redrock Meadow					
9108	N	15	N	700	150	N	30	N	150	N
DJ10	N	5	N	N	15	N	20	N	200	N
DJ66	N	7	N	500	100	N	20	N	100	N
968	N	7	N	300	70	N	30	N	100	N
					Granodiorite of Sheep Creek					
935	N	10	N	500	150	N	20	N	70	N
DJ85	N	7	N	300	70	N	30	N	150	N
					Granodiorite of Tower Rock					
DJ98	N	5	N	500	70	N	10	N	70	N
DJ99	N	5	N	500	70	N	10	N	70	N
					Granodiorite of Volcano Falls					
9167	N	7	N	1,000	150	N	15	N	50	N
980	N	7	N	700	150	N	10	N	100	N
941	N	5	N	1,000	200	N	10	N	70	N
					Whitney Granodiorite					
924	N	<5	N	500	50	N	<10	N	100	N
DJ25	N	5	N	700	70	N	10	N	70	N
99	N	5	N	300	70	N	10	N	50	N
9101	N	5	N	700	70	N	10	N	70	N
94	N	5	N	500	50	N	<10	N	70	N
948	N	<5	N	500	70	N	<10	N	100	N
95	N	N	N	500	50	N	N	N	100	N
					Granite of White Mountain					
DJ36	N	<5	N	500	70	N	<10	N	100	N
936	N	N	N	500	50	N	<10	N	150	N
9130	N	5	N	700	70	N	10	N	150	N
927	N	5	N	500	70	N	10	N	70	N
					Metamorphic Rocks--Undifferentiated					
DJ78A	N	7	N	200	100	N	20	N	100	N
DJ40	N	10	N	300	150	N	20	N	200	N
DJ32	N	7	<10	200	30	N	20	N	200	N
DJ41	N	10	<10	500	150	N	15	N	150	N
DJ79	N	7	15	300	100	N	20	N	150	N
DJ39	N	<5	N	N	30	N	N	N	100	N

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
DJ42	36 12 56	118 32 48	3.00	1.00	1.50	.30	500	N	N	N	20	300
DJ31	36 15 50	118 33 8	.70	.05	.07	.05	300	1.0	N	N	20	1,000
				Metasedimentary Rocks								
9132	36 18 16	118 29 6	1.00	1.00	.70	.30	150	.5	N	N	700	700
DJ81	36 18 29	118 36 58	3.00	.50	.20	.50	500	N	N	N	200	200
DJ8	36 16 10	118 17 2	1.00	.03	N	.15	100	N	N	N	N	500
9164	36 16 26	118 36 10	5.00	1.50	5.00	.50	1,000	N	N	N	50	N
				Metavolcanic Rocks								
960	36 16 56	118 10 44	1.00	.05	.50	.20	200	N	N	N	N	700
9127	36 20 18	118 2 14	1.50	.50	.50	.20	700	N	N	N	N	1,000
DJ87	36 17 14	118 25 51	2.00	1.00	2.00	.50	700	N	N	N	N	500
				Rhyolite of Long Canyon								
98	36 17 5	118 11 21	.30	.03	.15	.03	1,000	1.5	N	N	100	20
7252	36 15 39	118 13 43	.50	.02	.20	.05	700	N	N	N	100	20
DJ65	36 15 28	118 13 29	.50	.03	.20	.05	1,000	N	N	N	100	<20
				Rhyolite of Templeton Mountain								
736	36 19 48	118 11 48	1.00	.05	.50	.07	700	N	N	N	70	1,000
735	36 19 24	118 12 13	1.00	.20	.50	.10	700	N	N	N	20	1,500
				Basalt								
400Z	36 21 41	118 20 20	7.00	3.00	3.00	.50	700	N	N	N	15	1,000
				Samples from the Pine Tree Mine								
996	36 17 56	118 18 29	3.00	.30	7.00	.10	3,000	N	N	N	10	N
997	36 17 56	118 18 29	5.00	.30	7.00	.10	3,000	1.5	N	N	10	N
998	36 17 56	118 18 29	5.00	.30	10.00	.15	3,000	1.0	N	N	10	N
999	36 17 56	118 18 29	5.00	.30	7.00	.10	5,000	N	N	N	10	N
				Sulfide Altered Metavolcanic Rocks								
9123	36 21 28	118 2 25	3.00	1.50	1.50	.50	700	2.0	N	N	10	500
				Assorted Mafic Dikes and Xenolithic Material								
327Z	36 10 55	118 19 18	5.00	1.00	1.00	.30	700	N	N	N	10	500
341Z	36 18 26	118 26 36	7.00	.70	.70	.70	700	<.5	N	N	10	3,000
342Z	36 18 38	118 25 0	10.00	2.00	3.00	.50	1,000	N	N	N	10	300
334Z	36 24 24	118 6 14	7.00	2.00	2.00	.70	1,500	N	N	N	10	150
362Z	36 24 4	118 17 10	3.00	.70	1.50	.20	500	N	N	N	N	500
359Z	36 19 34	118 20 53	10.00	2.00	2.00	.70	700	N	N	N	10	500
360Z	36 20 16	118 20 39	10.00	3.00	3.00	.70	1,000	<.5	N	N	10	300

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
DJ42	<1.0	N	N	10	30	5	30	N	N	15	20
DJ31	1.5	N	N	N	N	7	70	<5	N	<5	100
Metasedimentary Rocks											
9132	2.0	N	N	N	70	15	70	<5	N	<5	70
DJ81	1.5	N	N	20	150	5	50	N	<20	70	30
DJ8	<1.0	N	N	N	N	5	30	7	N	<5	30
9164	1.0	N	N	20	70	5	70	N	30	50	<10
Metavolcanic Rocks											
960	1.0	N	N	N	N	70	30	5	N	<5	50
9127	1.5	N	N	<5	N	10	30	N	N	<5	30
DJ87	1.0	N	N	7	N	7	30	N	N	<5	10
Rhyolite of Long Canyon											
98	7.0	N	N	N	N	<5	30	<5	<20	<5	100
7252	5.0	N	N	N	N	N	N	<5	20	N	100
DJ65	7.0	N	N	N	N	N	N	N	20	N	100
Rhyolite of Templeton Mountain											
736	3.0	N	N	N	N	<5	50	7	N	<5	50
735	1.5	N	N	N	N	<5	70	5	N	<5	30
Basalt											
400Z	1.0	N	N	30	200	20	50	N	N	50	20
Samples from the Pine Tree Mine											
996	1.0	<10	N	5	30	15	N	70	N	30	10
997	1.0	<10	N	5	30	15	N	70	N	30	15
998	1.5	10	N	5	20	15	N	70	N	30	10
999	1.0	<10	N	5	20	15	N	100	N	20	10
Sulfide Altered Metavolcanic Rocks											
9123	7.0	50	N	20	30	50	50	<5	N	30	50
Assorted Mafic Dikes and Xenolithic Material											
327Z	1.5	N	N	15	15	15	50	N	N	20	20
341Z	1.0	N	N	15	N	20	70	N	20	5	20
342Z	<1.0	N	N	30	N	70	N	N	N	7	N
334Z	2.0	N	N	20	50	10	100	<5	<20	20	20
362Z	1.0	N	N	10	10	15	30	N	N	10	70
359Z	1.0	N	N	30	N	50	50	N	N	10	10
360Z	<1.0	N	N	30	150	150	50	N	N	50	10

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
DJ42	N	15	N	300	150	N	20	N	150	N
DJ31	N	<5	N	150	N	N	10	N	70	N
Metasedimentary Rocks										
9132	N	10	N	500	150	N	30	N	100	N
DJ81	N	15	N	150	200	N	20	N	200	N
DJ8	N	5	N	<100	70	N	N	N	70	N
9164	N	15	15	500	200	N	50	N	200	N
Metavolcanic Rocks										
960	N	5	N	150	70	N	15	N	100	N
9127	N	7	N	200	100	N	30	N	150	N
DJ87	N	15	N	500	100	N	30	N	100	N
Rhyolite of Long Canyon										
98	N	7	10	N	10	N	20	N	50	N
7252	N	7	10	N	N	N	15	N	100	N
DJ65	N	7	<10	N	N	N	15	N	70	N
Rhyolite of Templeton Mountain										
736	N	<5	N	200	N	N	15	N	100	N
735	N	<5	N	300	15	N	10	N	150	N
Basalt										
400Z	N	15	N	700	300	N	20	N	200	N
Samples from the Pine Tree Mine										
996	N	7	70	100	700	200	20	300	30	N
997	N	7	100	<100	700	200	10	300	20	N
998	N	7	70	100	500	300	10	300	20	N
999	N	7	70	100	700	200	10	300	20	N
Sulfide Altered Metavolcanic Rocks										
9123	N	15	N	500	150	100	15	N	50	N
Assorted Mafic Dikes and Xenolithic Material										
327Z	N	20	N	500	200	N	30	N	70	N
341Z	N	15	N	300	100	N	50	N	300	N
342Z	N	30	N	1,000	500	N	50	N	50	N
334Z	N	30	N	200	300	N	30	N	300	N
362Z	N	5	N	700	200	N	10	N	100	N
359Z	N	15	N	700	300	N	20	N	150	N
360Z	N	20	N	700	300	N	30	N	200	N

Table 1.--Rock samples from the Golden Trout Wilderness, California--Continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
348Z	36 18 24	118 19 47	7.00	3.00	2.00	.50	700	N	N	N	<10	300
349Z	36 18 31	118 19 1	7.00	1.50	2.00	.70	1,000	N	N	N	10	700
49Z	36 23 6	118 21 59	5.00	1.00	1.00	.30	1,500	N	N	N	10	150

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
348Z	<1.0	N	N	30	150	50	N	N	N	10	10
349Z	<1.0	N	N	20	<10	100	50	N	N	7	30
49z	3.0	N	N	10	N	5	50	N	20	5	30

Table 11.--Rock samples from the Golden Trout Wilderness, California--continued

Sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
348Z	N	20	N	700	300	N	30	N	70	N
349Z	N	15	N	500	300	N	30	N	150	N
49z	N	15	10	150	150	N	50	500	200	N

Table 12.--Data for water samples

Sample Number	Latitude	Longitude	Fe (ppm)	Mg (ppm)	Ca (ppm)	Ba (ppm)	Zn (ppm)	Sr (ppm)	Cu (ppb)	As (ppb)	F (ppm)	Cl (ppm)	SO_4 (ppm)	pH	°C	Spc (25°C)	AIK (ppm)
666	36°18'46"	118°31'21"	0.05	0.7	6.7	0.01	0.2	0.03	2.0	<1.0	0.1	0.4	1.2	7.1	6	30	19
667	36°18'38"	118°31'13"	< .02	1.6	10	.02	.2	.13	1.3	1.1	.2	.4	3.5	6.7	10	57	40
668	36°18'05"	118°31'05"	.02	.9	12	.01	.2	.07	.7	<1.0	.3	.3	1.7	7.8	10	50	37
669	36°18'14"	118°31'07"	.03	.8	6.9	.01	.3	.03	1.5	1.0	.1	.3	1.3	7.5	10.5	32	19
670	36°17'55"	118°31'17"	.03	1.9	9.9	.01	.3	.13	1.2	1.4	.1	.5	2.7	7.4	14	54	42
671	36°17'44"	118°31'19"	.04	1.3	7.3	.01	.4	.10	3.8	<1.0	.1	.5	1.0	7.2	15	43	31
672	36°17'29"	118°31'17"	.06	3.2	28	.02	.5	.21	1.2	2.3	.1	.7	3.2	7.0	10.5	104	92
673	36°17'29"	118°31'11"	.06	.9	7.7	.01	.4	.03	< .5	1.0	.1	1.5	1.3	7.3	14	33	22
674	36°18'22"	118°32'23"	.04	.8	4.0	.01	.3	.03	1.0	<1.0	< .1	.5	.4	7.1	7	26	17
675	36°18'21"	118°32'19"	< .02	1.2	23	.01	.4	.07	2.3	2.3	< .1	.3	7.6	8.1	9.5	75	57
676	36°17'58"	118°32'07"	.10	.9	4.5	.01	.3	.03	1.6	1.0	.1	.6	.6	7.5	10.5	27	17
677	36°17'54"	118°32'09"	.06	.7	4.7	.01	.3	.04	1.0	1.3	.1	.2	1.1	7.7	11	29	18
678	36°17'59"	118°31'53"	.04	2.1	13	.01	.3	.15	1.5	1.2	.1	.4	2.5	7.7	11	64	50
679	36°17'16"	118°31'57"	.04	.9	5.2	.01	.3	.04	1.2	<1.0	.1	.5	.9	7.2	15.5	30	19
680 sp	36°19'53"	118°31'52"	26.3	42	320	.48	.5	.88	6.7	1.1	.2	4.8	7.5	6.0	11	338	374
681 sp	36°19'57"	118°31'56"	15.4	31	249	.30	.5	.68	2.5	1.1	.2	3.0	10.3	5.9	11	282	281
682 sp	36°19'59"	118°32'02"	24.7	72	498	.89	.6	1.34	4.0	130	.2	8.6	3.7	6.1	12	429	470
683 sp	36°20'05"	118°32'08"	14.1	61	416	.79	.8	1.19	N.D.	42	.3	8.3	4.4	6.1	9.5	413	450
684 sp	36°20'09"	118°32'09"	21.9	60	425	.78	1.4	1.17	3.2	285	.3	8.3	5.9	6.2	11	427	418
685	36°20'13"	118°32'13"	.73	.7	5.4	.02	.7	.02	2.1	19	.1	.3	1.1	6.9	10.5	17	10
686	36°20'09"	118°32'02"	.32	1.1	8.0	.02	.9	.03	1.3	8.3	.3	.2	1.2	7.3	12	33	21