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Analytical results for stream sediments and panned concentrates from stream sediments collected from the Monte Cristo and Eagle Rocks study areas, Washington

By

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Contents

Illustrations

Tables

Studies Related to Wilderness

The Wilderness Act (Public Law 88-577, September 3, 1964) and the 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 submitted to the President and the Congress. This report presents the results of a geochemical reconnaissance survey of the Monte Cristo and Eagle Rocks Roadless Areas in the Mt. Baker and Snoqualmie National Forests, Snohomish and King Counties, Washington. The Monte Cristo and Eagle Rocks Roadless Areas were classified as further planning areas during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

Introduction

During the 1978 field season, samples were collected primarily from the Eagle Rocks area by R. W. Tabor and assistants. Samples collected during that field season are denoted by a leading GX in tables 2 and 3. Additional samples collected in the Monte Cristo area in the 1979 and 1980 field season by R. W. Tabor and assistants are denoted in the data tables by a leading G or trailing GX. Samples collected during the 1979-1980 field season by S. E. Church and assistants are denoted by a leading GP. A total of 229 stream sediments and 55 panned concentrates from stream sediments were collected and analyzed. Plate 1 shows the sample localities in the study area. No field numbers are shown for the panned concentrate samples. Leading and trailing letters have been dropped from the field numbers shown on the map for clarity.

Field Methods

Stream-sediment samples were collected from active streams, or across active stream channels, draining areas as large as 8 km^2. As the annual precipitation in the area exceeds 254 cm per year, few streams were not flowing. Sediment samples were sieved through a 2 mm stainless-steel screen at the sample site and a 10cm x 15cm cloth bag filled with the sieved sediment. The samples were air dried.

Concentrate samples were also taken from larger drainages. A 35-cm-diameter gold pan was filled with sediment sieved through a 2 mm stainless-steel screen and panned at the site. The heavy-mineral concentrate was transferred to a paper sample bag and oven dried at 105°C for several hours.

Sample Preparation

Stream-sediment samples were sieved through a 177 µm stainless-steel sieve and the -177 µm fraction (-80 mesh) was ground for analysis. A 30 mesh stainless-steel screen was used to sieve the panned concentrates, and the -590 µm concentrate was retained for further separation. The magnetic fraction of the panned concentrate was removed using an electromagnet, and the low-density fraction (specific gravity <2.8) was separated from the heavy-mineral fraction by floatation in bromoform. A final magnetic separation of the heavy-mineral fraction was made on a Frantz isodynamic separator at a setting of 0.6 amp with a forward slope of 25° and a side slope of 15°. Under these conditions, a nonmagnetic heavy-mineral fraction is separated from a more magnetic fraction. The magnetic fraction included many rock fragments

and most of the mafic silicates. Mineralogically, the nonmagnetic fraction contains sulfides, nonmagnetic oxides, apatite, sphene, zircon, and minor trace minerals. This nonmagnetic fraction was hand ground in an agate mortar under acetone for analysis.

Prior to analysis of the nonmagnetic fraction from the panned concentrate samples collected during the 1980 field season, mineralogical examinations were performed under a binocular microscope. These data are given in table 4. The recognized mineralogy of the nonmagnetic fraction, that is, of the fraction analyzed to give the results shown in table 3, is given in table 4. Of the panned-concentrate samples systematically examined for mineralogy, only sample GP3029 comes from a drainage basin where mining activity has occurred. Sulfide minerals, including arsenopyrite, were seen in this sample and probably represent a contribution from the mine dumps. Three other samples that contain both sulfides and(or) scheelite are from drainages on the northeast side of Sloan Peak where there is no evidence of previous mining activity.

Analytical Methods

The methods used in this study are given by element in table 1. Analytical results for stream sediments are presented in table 2 and analytical results for the panned-concentrate from stream sediments are given in table 3. Elements for which only a few data were reported are not included in the data tables.

Spectrographic results were obtained by visual comparison of spectra derived from the unknown against spectra obtained from standards made from pure oxides or carbonates (Grimes and Marranzino, 1968). Standard concentrations are geometrically spaced over any given order of magnitude of concentration and are prepared in such a way that the range of concentrations normally found in nationally occurring samples are bracketted. When comparisons are made with sample films for semiquantitative use, reported values are rounded to 100, 50, 20, 10, and so forth. Those samples whose concentrations are estimated to fall between the above values are arbitrarily given values of 70, 30, 15, 7, and so forth. The precision of the method is approximately plus or minus one reporting unit at the 83 percent confidence level and plus or minus two reporting units at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (magnesium, calcium, iron, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram).

Discussion

All analytical results, sample descriptions, and locations have been entered into a computerized rock analysis storage system (RASS) used by the U.S. Geological Survey. The data for stream sediments and panned concentrates have been processed using computer programs in a statistical package (STATPAC) to provide the histograms and statistical distribution data given for each sample medium in tables 5 and 10. Histograms and statistical data given are derived only from unqualified data contained in the data set. Log transforms of the data set were used to prepare the histograms and the correlation-coefficient tables.

Results from the stream-sediment survey may be interpreted to show a bimodal occurrence for calcium, manganese, nickel, boron, and lanthanum, which reflect the different lithologic units present in the area (Tabor and others, 1981). In addition, copper, arsenic, and perhaps gold show positively skewed distributions with sporadic high values. Comparison of the distribution of these highs with mining activity as indicated by the presence of adits and prospect pits suggests that these high values are a reflection of the mining processes (Spurr, 1901). The remaining elements show essentially log normal distributions with median values for many elements that are less than the crustal averages of Lee and Yao (1970). Zinc, lead, arsenic, and copper have mean or censored mean values that are greater than the average crustal abundance and reflect the mineralization of the Monte Cristo mining district.

Chemical results from the panned concentrates from stream sediments collected from the area are more difficult to interpret in the absence of a systematic study of the mineralogy. Bimodal populations are suggested for iron, manganese, chromium, cobalt, copper, molybdenum, lead, tungsten, silver, zinc, arsenic, and mercury, and highly skewed distributions are seen for manganese, titanium, and barium, which may also reflect mineralization. The lithophile elements generally show several modes that are interpreted to reflect the mineralogy of the source lithologies.

Correlation coefficients have been examined for relationships that would reflect mineralization. Only those correlations that are significant at the 95 percent confidence level as indicated by the Z statistic (Hoffman and others, 1979) have been included in the analysis. The suites of elements that may reflect mineralization are: copper, molybdenum, tungsten, gold, lead, zinc, and silver; and iron, manganese, cobalt, copper, nickel, and arsenic. The first suite of elements is the common porphyry copper suite associated with mineralization found in the Canadian cordillera (Pilcher and McDougall, 1976). The second suite reflects the high arsenopyrite occurrence associated with the mineralization of the Monte Cristo district (Spurr, 1901).

Associations found in the lithophile elements reflect the mineralogy of the tourmaline-bearing garnet gneiss unit on the east side of the study area (Tabor and others, 1981) and granodiorite association of the Index and Grotto batholiths, which underlie the mining districts in the Eagle Rocks and Monte Cristo study areas. In addition, localized ultramafic pods also have a distinctive signature of iron, chromium, cobalt, and nickel which is shown in the correlation-coefficient analysis.

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Table 1. Summary of analytical methods used on samples from the study area

[The following qualifiers are used in reporting the spectrographic data: --, no determination made; N, concentration less than the detection limit; L, detected, but present at a concentration less than the value reported; G, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable.]

Column designation	Analysts	Sediment sample weight (g)	Concentrate sample weight (g)	Detection limit (sediments)	Detection limit (concentrates)	Analytical method	Reference
S-Mg%	Mosier/Cooley	0.010	0.005	[1]0.02	[1]0.05	D.C. arc/spectrographic analysis	Grimes and Marranzino (1968).
S-Ca%	----Do---------	.010	.005	[1] .05	[1].10	----------Do----------	----------Do----------
S-Fe%	----Do---------	.010	.005	[1]0.05	[1].10	----------Do----------	----------Do----------
S-Ti%	----Do---------	.010	.005	[1]0.002	[1].005	----------Do----------	----------Do----------
S-Mn	----Do---------	.010	.005	[2]10	[2]20	----------Do----------	----------Do----------
S-V	----Do---------	.010	.005	10	20	----------Do----------	----------Do----------
S-Cr	----Do---------	.010	.005	10	20	----------Do----------	----------Do----------
S-Ni	----Do---------	.010	.005	5	10	----------Do----------	----------Do----------
S-Co	----Do---------	.010	.005	5	10	----------Do----------	----------Do----------
S-Cu	----Do---------	.010	.005	5	10	----------Do----------	----------Do----------
S-Mo	----Do---------	.010	.005	5	10	----------Do----------	----------Do----------
AA-Mo-P	Arbogast	.2	.2	1	1	$K_2S_2O_7$ fusion/leach with H_3PO_4--H_2O_2/ extract into MIBK[3]-aliquat 336 solution/atomic absorption analysis using N_2O	Unpublished procedure.
CM-W-P	----Do---------	.4	.4	1	1	$K_2S_2O_7$ fusion/leach with 10 N HCl/ transfer to 20 percent Sn(II)/add dithiol solution/extract into heptane/colorimetric determination	Modified from Quinn and Brooks (1972).
S-Sn	Mosier/Cooley	.010	.005	10	20	D.C. arc/spectrographic analysis	Grimes and Marranzino (1968).
S-Bi	----Do---------	.010	.005	10	20	----------Do----------	----------Do----------
AA-Au-P	Arbogast/Romans	1.0-10.0	--	[4](0.5-0.05)	--	[3]HBr+Br[2] digestion/extract into MIBK/atomic absorption analysis	Ward and others (1969).
	Frisken	10.0	--	.002	--	[3]HBr+Br[2] digestion/extract into MIBK/flameless atomic absorption analysis	Meier (1980).
S-Pb	Mosier/Cooley	.010	.005	10	20	D.C. arc/spectrographic analysis	Grimes and Marranzino (1968).
S-Ag	----Do---------	.010	.005	.5	1	----------Do----------	----------Do----------
AA-Zn-P	Sharkey	1.0	--	5	--	HNO_3 digestion/atomic absorption analysis	Ward and others (1969).
S-As	Mosier/Cooley	.010	.005	200	500	D.C. arc/spectrographic analysis	Grimes and Marranzino (1968).
S-Sb	----Do---------	.010	.005	100	200	----------Do----------	----------Do----------
INST-Hg	Frisken	--	.10	--	.02	Volatile extraction/atomic absorption analysis	Modified from Vaughn and McCarthy (1964).
S-B	Mosier/Cooley	.010	.005	10	20	D.C. arc/spectrographic analysis	Grimes and Marranzino (1968).
S-Be	----Do---------	.010	.005	1	2	----------Do----------	----------Do----------
S-Sr	----Do---------	.010	.005	100	200	----------Do----------	----------Do----------
S-Ba	----Do---------	.010	.005	20	50	----------Do----------	----------Do----------
S-La	----Do---------	.010	.005	20	50	----------Do----------	----------Do----------
S-Y	----Do---------	.010	.005	10	20	----------Do----------	----------Do----------
S-Zr	----Do---------	.010	.005	10	20	----------Do----------	----------Do----------

[1]Weight percent.

[2]Parts per million.

[3]MIBK is methyl isobutyl ketone.

[4]The limit of detection is dependent on the weight of the sample available. The usefulness of data from samples determined by this method is therefore sample limited.

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington

[The following qualifiers are used in reporting the spectrographic data: --, no determination made; N, concentration less than the detection limit; L, detected, but present at a concentration less than the value reported; G, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable.]

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
01GX	48 2 36	121 18 6	3.0	2.00	10.0	1.00	2,000	200	200	50	15	70	N	--
036X	48 2 15	121 18 3	.7	1.00	5.0	.30	700	150	70	30	15	50	N	--
056X	48 4 24	121 18 27	2.0	2.00	5.0	1.00	1,500	150	100	20	10	50	N	--
705GX	47 57 34	121 16 48	2.0	2.00	10.0	1.00	2,000	200	100	30	15	30	N	--
706GX	47 57 24	121 16 48	2.0	2.00	10.0	1.00	2,000	300	150	50	30	50	N	--
E17FS	47 48 27	121 20 25	3.0	5.00	7.0	1.00	1,000	300	300	70	30	70	N	--
G1	47 47 29	121 26 19	2.0	2.00	5.0	.30	1,000	150	150	50	50	150	N	1
G10	47 59 10	121 18 40	1.5	1.00	7.0	1.00	1,000	200	150	50	30	70	N	<1
G1002	47 55 0	121 26 16	.7	.50	5.0	.20	700	70	50	70	50	1,000	5	7
G1003	47 55 32	121 26 15	.7	.30	5.0	.20	500	70	20	20	30	1,000	N	9
G1004	47 56 20	121 26 5	1.0	.30	5.0	.20	1,000	70	70	70	50	700	N	11
G1006	47 56 45	121 25 50	1.0	.50	5.0	.30	500	100	150	50	30	1,000	20	18
G11	47 59 18	121 18 42	1.0	1.50	5.0	.70	1,000	200	300	30	20	50	N	<1
G1101	47 51 18	121 18 45	1.0	.70	5.0	.30	500	100	100	20	20	150	N	5
G1103	47 53 4	121 20 29	1.0	1.50	5.0	.50	700	100	30	15	20	50	N	4
G13	48 2 30	121 18 8	1.5	1.00	5.0	.50	1,000	100	150	70	20	100	N	<1
G15	48 3 10	121 18 41	1.5	1.50	5.0	.30	700	100	70	20	15	100	N	10
G16	48 3 19	121 18 42	1.5	1.00	5.0	.50	700	100	100	30	20	50	N	9
G17	48 5 30	121 20 35	1.5	.70	3.0	.20	500	70	150	50	20	30	<5	--
G2	47 47 19	121 26 19	1.5	1.00	3.0	.15	1,000	100	50	20	20	70	N	1
G200	47 50 0	121 25 55	1.0	1.00	5.0	.50	700	150	30	15	20	30	5	4
G202	47 46 26	121 19 27	.7	.50	3.0	.20	500	70	30	15	15	20	N	2
G204	47 45 52	121 19 32	.7	1.00	3.0	.30	500	70	30	15	10	15	N	3
G205	47 44 38	121 19 18	1.0	.70	5.0	.20	700	100	50	20	15	30	N	3
G207	48 2 52	121 21 4	1.5	1.00	5.0	.50	1,000	150	150	70	20	100	N	3
G208	48 3 10	121 21 31	2.0	1.50	5.0	.30	1,000	150	300	150	30	20	N	3
G210	48 3 17	121 21 35	1.5	1.00	5.0	.50	1,000	100	100	50	20	20	N	2
G211	48 3 37	121 21 55	1.5	1.00	5.0	.30	1,000	100	200	70	20	20	N	3
G212	48 3 51	121 22 9	2.0	1.00	5.0	.20	700	100	300	200	20	30	N	2
G213	48 4 7	121 22 20	2.0	1.00	5.0	.30	700	150	200	100	20	50	N	2
G215	48 4 10	121 23 31	1.0	1.00	5.0	.30	1,000	100	70	50	20	50	N	2
G216	47 43 41	121 20 28	1.0	.70	5.0	.30	1,000	100	100	50	20	50	N	3
G217	47 44 9	121 20 22	.7	.50	5.0	.50	500	100	50	20	15	20	N	2
G218	48 0 39	121 20 52	1.5	1.00	7.0	.50	1,500	150	100	50	30	100	N	3
G22	47 48 55	121 25 27	1.5	1.00	5.0	.50	1,000	100	200	100	50	100	N	6
G220	48 0 59	121 23 58	1.5	.70	5.0	.50	1,000	150	100	70	50	150	N	3
G223	48 3 2	121 24 35	.5	.50	2.0	.15	700	50	30	30	15	200	N	5
G224	48 3 7	121 24 38	1.0	1.00	5.0	.30	1,000	150	70	50	20	50	N	4
G225	47 58 53	121 21 52	1.0	.70	5.0	.50	2,000	150	50	30	20	50	<5	4
G23	47 48 59	121 25 20	1.0	.50	3.0	.20	700	70	20	10	15	70	5	--
G232	47 46 7	121 24 8	.5	.50	1.5	.10	700	30	10	7	10	30	<5	7
G233	47 46 9	121 24 0	.5	.50	1.0	.07	1,000	20	10	10	10	500	7	10
G234	47 51 8	121 22 48	.7	.50	5.0	.20	700	100	15	7	15	30	N	5
G235	47 51 5	121 22 40	.7	.50	5.0	.30	1,000	100	30	20	20	70	5	6
G236	47 52 9	121 20 46	1.0	1.00	5.0	.20	1,500	100	20	15	20	50	N	4

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	CM-W-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
01GX	--	N	.010	20	N	--	N	N	200	N	300	500	20	50	100
03GX	--	N	.007	10	N	--	N	N	50	N	100	200	N	10	100
05GX	--	N	.020	10	N	--	N	N	70	N	300	500	N	50	200
705GX	--	N	<.002	15	N	--	N	N	200	1.0	300	300	N	20	100
706GX	--	N	.002	15	N	--	N	N	100	<1.0	200	300	N	30	200
E17FS	--	N	--	<10	N	--	N	N	10	N	500	200	N	20	100
G1	<2	N	N	15	N	65	N	N	200	<1.0	200	200	N	20	70
G10	2	N	N	20	N	80	N	N	50	<1.0	200	300	30	20	100
G1002	20	<10	95.000	100	1.5	420	700	N	20	2.0	100	500	20	30	100
G1003	20	<10	.150	70	1.5	450	500	N	20	1.0	100	300	N	20	100
G1004	10	10	.350	200	3.0	600	2,000	N	50	1.0	100	500	N	20	70
G1006	20	<10	.150	50	2.0	220	300	N	30	1.0	150	300	N	20	100
G11	<2	N	N	15	N	45	N	N	30	N	150	300	N	30	500
G1101	2	N	<.050	10	N	120	N	N	20	<1.0	150	300	N	20	100
G1103	<2	N	.100	15	N	80	N	N	15	<1.0	150	300	N	100	200
G13	<2	N	N	15	N	60	200	N	100	<1.0	200	300	N	30	100
G15	<2	N	N	10	N	60	N	N	50	<1.0	300	500	20	20	50
G16	<2	N	.050	15	N	90	N	N	100	N	300	300	N	30	300
G17	<2	N	N	15	N	90	N	N	150	<1.0	100	300	N	15	150
G2	<2	N	N	10	N	70	N	N	100	<1.0	100	150	N	15	20
G200	<2	N	--	20	N	60	N	N	70	1.0	150	300	N	30	500
G202	<2	N	--	15	N	55	N	N	50	1.0	150	300	N	20	100
G204	<2	N	--	15	N	60	N	N	20	<1.0	150	300	N	20	150
G205	<2	N	--	15	N	65	N	N	30	<1.0	150	300	70	20	150
G207	<2	N	--	30	N	150	N	N	100	<1.0	300	500	N	20	150
G208	<2	N	N	15	N	90	N	N	100	N	300	200	N	20	200
G210	<2	N	<.050	30	N	80	N	N	30	1.0	200	300	N	20	100
G211	<2	N	N	15	N	60	N	N	100	1.0	300	200	N	15	70
G212	<2	N	N	20	N	90	N	N	70	<1.0	200	300	N	15	70
G213	<2	N	N	10	N	75	N	N	100	<1.0	300	300	N	20	150
G215	<2	N	N	20	N	85	N	N	100	<1.0	150	200	20	20	150
G216	<2	N	N	15	N	70	N	N	50	1.0	150	300	N	20	150
G217	<2	N	N	20	N	50	N	N	30	<1.0	150	300	N	15	100
G218	<2	N	N	70	<.5	140	300	N	150	<1.0	200	300	N	30	100
G22	2	N	N	30	N	180	N	N	100	1.0	100	500	20	30	100
G220	<2	N	N	50	<.5	140	N	N	70	1.5	150	300	20	30	100
G223	<2	N	--	30	N	130	N	N	20	1.0	150	200	20	20	30
G224	<2	N	--	20	N	75	N	N	100	1.0	200	300	N	20	150
G225	<2	N	--	70	<.5	130	300	N	100	<1.0	150	300	N	20	150
G23	<2	N	N	30	N	95	N	N	150	1.0	100	300	20	30	200
G232	2	N	--	70	N	50	N	N	20	1.5	100	200	N	15	50
G233	2	N	--	100	<.5	70	N	N	20	1.5	N	100	N	15	30
G234	<2	N	--	50	N	75	N	N	50	1.0	100	300	N	20	200
G235	<2	N	--	70	N	150	N	N	70	1.0	100	300	N	30	300
G236	<2	N	--	50	N	110	N	N	20	1.0	100	200	N	30	70

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
G25	47 49 17	121 25 40	2.0	1.00	5.0	.50	1,000	100	150	100	30	200	5	6
G26	47 49 28	121 26 0	--	--	--	--	--	--	--	--	--	--	--	6
G27	47 50 10	121 26 41	.5	.70	2.0	.15	500	50	20	15	15	200	N	6
G28	47 50 37	121 26 57	1.5	1.50	5.0	.30	700	150	50	20	20	70	N	4
G29	47 52 10	121 25 29	1.0	1.50	5.0	.50	1,000	200	70	30	30	100	N	4
G3	47 47 12	121 25 41	1.5	1.50	5.0	.20	1,000	150	70	20	20	50	N	<1
G30	47 51 27	121 24 53	1.0	.70	5.0	.30	1,000	100	15	10	20	70	N	3
G32	47 51 30	121 25 4	.7	.50	2.0	.15	1,000	50	30	20	15	70	N	--
G33	47 51 39	121 24 57	2.0	2.00	7.0	.70	1,000	300	100	50	50	200	N	3
G34	47 53 8	121 24 37	.7	1.00	2.0	.15	700	50	20	15	15	30	N	4
G35	47 52 35	121 22 32	.7	.50	1.0	.15	700	70	30	20	15	50	N	--
G37	47 52 37	121 22 41	1.5	1.50	5.0	.50	1,000	200	70	20	20	70	N	3
G38	47 51 1	121 26 19	1.5	.70	3.0	.20	700	70	100	70	15	100	N	--
G39	47 50 28	121 25 57	1.5	1.00	5.0	.50	1,000	150	50	20	20	100	N	3
G4	47 47 1	121 25 10	1.0	1.00	3.0	.30	500	100	20	10	15	20	5	4
G401	47 45 52	121 22 42	1.0	1.00	5.0	.30	500	100	30	20	15	30	N	4
G403	47 46 48	121 23 4	1.0	1.00	5.0	.30	1,000	100	50	20	15	150	<5	6
G405	47 45 58	121 21 45	1.0	1.00	5.0	.20	700	70	30	20	10	20	N	3
G406	47 46 26	121 22 15	.7	.30	5.0	.20	1,000	70	30	20	15	30	N	3
G407	47 57 51	121 18 45	1.0	1.00	5.0	.50	1,000	150	100	30	20	100	N	3
G408	47 56 52	121 18 52	.7	.50	5.0	.30	700	100	50	30	15	50	N	3
G409	47 56 57	121 18 48	1.5	1.50	7.0	.50	1,000	200	150	50	30	70	N	4
G410	47 56 37	121 18 40	1.5	1.00	5.0	.50	1,000	150	100	30	20	30	N	3
G411	47 56 29	121 18 48	.7	1.00	3.0	.30	700	70	30	10	15	20	N	2
G412	47 55 55	121 18 45	1.0	1.00	5.0	.50	1,000	150	50	15	15	20	N	2
G413	47 48 2	121 28 38	1.0	.70	3.0	.30	1,500	70	70	30	20	50	5	4
G414	47 47 59	121 28 8	2.0	1.00	5.0	.30	1,000	150	200	70	50	100	7	3
G415	47 47 43	121 27 24	1.0	1.50	5.0	.50	1,000	150	70	30	30	100	N	2
G416	47 46 19	121 28 25	1.5	.70	5.0	.50	1,000	100	150	100	30	70	N	3
G418	47 44 2	121 24 7	1.0	1.00	5.0	.30	500	100	70	30	20	30	N	2
G419	48 0 39	121 20 42	1.0	.70	3.0	.20	500	70	100	50	30	50	N	2
G42	48 2 59	121 19 57	2.0	2.00	5.0	.50	700	100	70	15	15	50	N	2
G420	48 0 55	121 22 23	1.0	1.00	3.0	.20	700	100	70	20	20	50	N	2
G421	48 2 20	121 23 45	1.0	1.00	5.0	.30	700	100	70	20	20	50	N	2
G422	48 2 23	121 23 40	1.0	1.00	10.0	1.00	1,500	300	70	30	20	100	5	5
G424	48 1 27	121 26 16	1.0	.70	5.0	.30	1,000	100	100	50	20	50	N	3
G425	48 0 47	121 26 12	1.5	1.00	5.0	.50	1,000	100	70	50	20	50	N	4
G44	48 0 21	121 17 30	1.0	.50	5.0	.50	700	100	100	70	30	70	5	3
G5	47 46 53	121 25 15	1.0	1.50	5.0	.50	1,000	150	70	15	20	200	7	3
G601	47 59 0	121 19 2	1.0	1.50	3.0	.30	700	100	70	20	15	30	N	3
G602	47 59 2	121 19 3	1.0	1.00	3.0	.30	700	100	70	30	20	50	N	4
G603	47 59 25	121 19 0	1.0	.70	5.0	.30	1,000	100	100	50	20	70	N	3
G605	48 4 4	121 19 25	1.5	.70	5.0	.30	1,000	100	150	50	30	70	5	5
G606	48 4 57	121 21 38	1.5	1.50	3.0	.50	700	70	30	20	20	15	N	3
G610	47 49 17	121 30 42	1.5	1.00	5.0	.50	1,000	100	150	70	20	50	N	5

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	CM-W-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
G25	<2	N	N	20	N	160	N	N	100	1.5	150	700	20	30	200
G26	<2	--	N	--	--	440	--	--	--	--	--	--	--	--	--
G27	<2	N	N	70	.5	240	N	N	20	<1.0	100	200	20	15	30
G28	<2	N	N	20	N	150	N	N	15	<1.0	200	300	30	30	500
G29	<2	N	N	20	N	150	N	N	20	N	150	300	N	20	100
G3	<2	N	N	20	N	45	N	N	20	<1.0	150	300	N	30	150
G30	<2	N	N	50	<.5	210	N	N	20	N	100	300	20	30	100
G32	<2	N	N	30	N	150	N	N	150	1.5	<100	200	N	10	70
G33	<2	N	N	20	N	100	N	N	20	N	150	150	N	30	50
G34	2	N	N	50	N	100	N	N	15	1.0	100	200	N	15	70
G35	<2	N	N	20	N	65	N	N	100	N	N	300	N	20	150
G37	<2	N	N	30	N	80	N	N	30	N	150	300	N	20	100
G38	<2	N	N	20	N	100	N	N	100	1.0	150	200	N	15	100
G39	<2	N	N	30	N	150	N	N	20	<1.0	100	300	N	30	500
G4	<2	N	N	10	N	50	N	N	50	1.0	150	200	N	15	100
G401	<2	N	--	15	N	35	N	N	30	<1.0	200	300	100	30	500
G403	2	N	--	30	N	60	N	N	20	1.0	150	300	20	20	70
G405	<2	N	--	30	N	55	N	N	15	1.0	150	300	N	15	100
G406	2	N	--	20	N	110	N	N	100	1.0	100	300	N	15	100
G407	<2	N	--	50	N	70	N	N	70	<1.0	150	300	N	30	100
G408	<2	N	--	30	N	70	N	N	70	<1.0	150	300	N	20	150
G409	<2	N	--	20	N	60	N	N	50	N	150	300	50	20	100
G410	<2	N	N	20	N	75	N	N	50	N	150	300	N	30	300
G411	<2	N	N	50	N	80	N	N	150	1.0	100	300	N	20	150
G412	<2	N	N	10	N	55	N	N	70	<1.0	150	300	N	30	200
G413	<2	N	N	20	<.5	90	N	N	20	1.0	200	500	N	20	100
G414	<2	N	N	30	N	120	N	N	100	1.0	150	700	N	20	70
G415	<2	N	N	20	N	85	N	N	100	<1.0	150	300	N	20	100
G416	<2	N	N	15	N	190	N	N	50	2.0	150	700	20	30	100
G418	<2	N	N	15	N	70	N	N	20	1.0	200	500	N	30	500
G419	<2	N	N	50	N	90	N	N	50	1.5	200	300	20	20	70
G42	<2	N	N	<10	N	60	N	N	20	<1.0	500	500	N	20	150
G420	<2	N	N	20	N	80	N	N	100	1.0	150	300	N	30	150
G421	<2	N	N	20	N	80	N	N	100	N	150	300	N	20	150
G422	2	N	N	20	N	65	N	N	100	<1.0	150	300	N	30	500
G424	<2	N	N	30	N	100	N	N	30	1.5	150	500	N	30	100
G425	<2	N	N	20	N	85	N	N	50	1.0	200	1,000	N	30	150
G44	<2	N	N	15	N	130	N	N	150	1.0	200	500	20	20	100
G5	2	N	N	20	10.0	55	N	N	50	1.0	150	1,000	50	20	300
G601	<2	N	N	15	N	45	N	N	30	N	150	300	N	20	150
G602	<2	N	N	30	N	100	N	N	30	<1.0	150	500	N	20	300
G603	<2	N	N	50	<.5	160	200	N	200	1.0	200	300	N	20	100
G605	2	N	N	20	N	100	N	N	50	1.0	200	300	20	20	100
G606	<2	N	N	15	N	20	N	N	<10	1.0	500	300	N	20	200
G610	<2	N	N	15	N	90	N	N	30	1.0	150	300	N	20	300

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
G612	47 49 43	121 30 8	1.0	1.00	5.0	.30	1,000	100	50	30	20	50	N	5
G613	47 50 8	121 26 45	1.5	1.00	5.0	.50	1,000	100	30	20	20	70	N	4
G615	47 47 3	121 19 4	.7	.50	3.0	.20	1,000	70	30	20	15	20	5	1
G616	47 47 38	121 18 48	1.0	.50	5.0	.30	700	150	70	30	30	50	N	4
G617	47 48 33	121 19 35	1.5	1.00	7.0	.50	1,000	200	150	50	30	70	N	4
G619	47 48 30	121 19 45	1.0	1.00	5.0	.30	1,000	100	70	30	20	70	N	4
G620	47 49 35	121 18 40	1.0	.70	3.0	.30	500	70	70	30	20	50	N	5
G621	47 50 0	121 18 30	1.0	1.00	5.0	.50	700	100	100	20	20	30	N	5
G622	47 50 42	121 18 29	1.0	.70	5.0	.50	1,000	100	70	30	20	100	N	7
G624	47 50 43	121 19 19	1.0	1.00	5.0	.30	700	100	100	20	15	100	N	5
G625	47 50 33	121 19 30	1.0	1.00	5.0	.50	1,000	150	70	20	20	150	<5	4
G7	47 46 58	121 25 31	1.5	1.50	5.0	.50	700	150	150	50	30	150	N	2
G801	47 45 38	121 27 11	2.0	1.00	5.0	.70	1,000	150	200	100	30	150	N	4
G802	47 45 15	121 26 28	1.0	1.00	5.0	.30	700	150	50	15	20	30	N	4
G803	47 44 45	121 26 33	1.5	1.00	5.0	.30	1,000	150	100	30	30	50	N	3
G805	47 44 27	121 25 56	1.5	1.00	5.0	.30	700	150	300	50	20	30	10	3
G806	47 43 59	121 24 57	1.5	1.00	7.0	.50	1,000	200	150	50	30	30	N	3
G808	47 44 12	121 22 58	1.0	1.00	5.0	.30	700	100	50	20	20	30	N	3
G809	47 44 12	121 23 29	.7	1.00	3.0	.20	700	100	30	15	15	20	5	2
G810	48 1 29	121 21 35	1.0	1.00	5.0	.50	1,000	200	150	20	20	30	N	1
G811	48 1 40	121 21 50	1.0	1.00	5.0	.30	1,000	150	30	20	20	70	N	1
G812	48 1 57	121 22 2	1.5	1.00	10.0	.70	1,000	500	70	20	30	50	N	2
G813	48 2 13	121 22 32	1.0	1.00	5.0	.50	1,000	150	50	15	20	30	N	1
G814	47 49 30	121 23 20	1.0	1.00	5.0	.30	700	100	20	15	15	20	10	5
G815	47 49 32	121 23 17	1.0	1.00	5.0	.50	1,000	150	30	20	20	30	5	3
G816	47 49 47	121 23 42	1.0	.70	5.0	.30	1,000	100	50	15	15	50	7	7
G817	47 49 56	121 23 53	1.0	1.00	5.0	.50	1,000	200	30	15	20	30	<5	3
G819	47 49 54	121 24 12	.7	.50	2.0	.15	1,000	50	15	10	10	50	N	--
G821	47 49 55	121 24 22	2.0	1.00	5.0	.50	1,000	70	50	15	20	50	N	2
G822	47 49 51	121 24 20	1.0	1.00	5.0	.20	700	100	10	10	15	30	5	4
G9	47 47 18	121 26 58	1.5	.70	7.0	.50	1,500	150	70	70	50	100	7	3
G901	47 59 57	121 15 59	2.0	1.50	5.0	.50	1,000	150	150	50	20	20	N	1
G902	47 59 52	121 18 38	1.0	1.00	3.0	.30	1,000	70	70	150	100	50	N	2
G904	48 0 10	121 18 47	1.5	.70	5.0	.30	700	100	150	100	50	100	N	1
G905	48 1 17	121 18 32	1.0	1.00	5.0	.30	1,000	150	100	50	30	300	N	<1
G906	48 1 22	121 18 33	1.0	1.00	5.0	.50	1,000	150	100	50	20	50	N	<1
G907	48 1 19	121 18 24	121.0	27.00	17.0	.0	700	150	100	50	20	50	N	<1
G908	48 4 22	121 20 0	1.5	1.00	5.0	.50	1,000	200	300	150	30	30	N	<1
G909	48 1 46	121 19 16	1.5	1.00	5.0	.30	700	150	150	50	30	100	N	<1
G910	48 1 40	121 19 17	1.5	1.00	5.0	.50	700	150	100	50	20	70	N	<1
G915	47 56 3	121 24 53	.7	.30	10.0	.20	2,000	100	100	70	70	1,000	7	7
G917	47 55 33	121 25 35	.5	.20	10.0	.15	300	50	30	20	15	500	N	5
G920	47 54 56	121 25 34	.7	.15	7.0	.20	500	70	50	30	50	700	N	2
G922	47 56 44	121 25 10	1.0	.50	5.0	.20	1,000	50	100	50	50	2,000	15	24
G927	47 57 38	121 24 9	.7	.50	5.0	.30	300	70	20	15	5	100	N	1

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	CM-W-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
G612	2	N	N	20	N	90	N	N	20	1.0	150	300	30	30	100
G613	10	N	N	50	N	180	N	N	50	<1.0	200	300	N	30	100
G615	<2	N	N	30	N	100	N	N	50	1.5	150	500	N	30	100
G616	<2	N	N	15	N	110	N	N	30	1.0	150	500	N	30	100
G617	<2	N	N	30	N	120	N	N	50	1.0	150	500	N	30	100
G619	<2	N	N	50	N	100	N	N	50	1.0	150	500	N	30	150
G620	<2	N	N	30	N	160	N	N	30	1.0	150	300	N	20	150
G621	<2	N	N	20	N	130	N	N	30	1.0	200	500	N	20	200
G622	<2	N	N	50	<.5	180	N	N	50	<1.0	150	300	N	20	200
G624	<2	N	<.050	10	N	100	N	N	15	<1.0	200	300	N	15	150
G625	<2	N	N	50	<.5	190	N	N	50	1.0	150	300	N	20	200
G7	<2	N	N	15	N	70	N	N	70	<1.0	150	500	N	20	50
G801	<2	N	N	30	N	110	N	N	50	1.5	150	700	20	20	100
G802	<2	N	N	20	N	60	N	N	30	1.0	150	300	N	30	150
G803	<2	N	N	20	N	75	N	N	30	<1.0	150	300	N	30	150
G805	5	N	N	300	N	100	N	N	30	1.0	200	300	50	30	150
G806	<2	N	.050	20	N	70	N	N	30	1.0	200	300	100	30	150
G808	<2	N	.050	20	N	70	N	N	50	1.0	200	300	30	30	100
G809	5	N	N	30	N	60	N	N	30	1.5	150	300	30	30	100
G810	<2	N	.100	15	N	50	N	N	100	<1.0	200	200	N	30	500
G811	<2	N	.700	15	N	60	N	N	50	<1.0	200	300	N	20	70
G812	<2	N	.100	15	N	60	N	N	50	<1.0	200	200	N	50	1,000
G813	<2	N	.400	10	N	65	N	N	30	<1.0	150	200	N	30	700
G814	<2	N	.100	20	N	60	N	N	50	1.5	200	300	150	30	150
G815	2	N	N	20	N	75	N	N	50	1.5	200	300	N	30	300
G816	2	N	N	30	N	70	N	N	100	1.0	100	300	N	30	500
G817	2	N	N	20	N	65	N	N	20	1.0	150	300	N	30	200
G819	--	N	N	50	N	160	N	N	150	1.0	<100	200	N	20	70
G821	2	N	N	50	N	75	N	N	100	N	N	300	N	N	300
G822	5	N	N	50	N	95	N	N	10	1.0	150	300	N	20	100
G9	<2	N	N	20	N	190	N	N	70	2.0	100	1,000	20	30	100
G901	<2	N	N	15	N	85	N	N	50	1.0	200	300	N	20	100
G902	<2	N	N	15	N	60	N	N	20	1.0	200	150	N	15	70
G904	<2	N	N	50	<.5	160	N	N	100	1.5	200	300	30	20	70
G905	<2	N	N	30	1.0	130	N	N	150	1.5	300	300	N	30	100
G906	<2	N	N	20	N	110	N	N	200	1.0	200	300	20	50	100
G907	<2	N	N	20	N	110	N	N	150	1.5	300	500	N	30	70
G908	<2	N	N	30	N	150	N	N	15	1.0	200	300	N	30	300
G909	<2	N	N	30	N	100	200	N	200	1.5	200	300	N	20	150
G910	<2	N	N	20	N	120	N	N	100	1.5	300	300	N	30	100
G915	10	10	N	200	2.0	330	1,500	N	100	1.5	100	300	20	30	200
G917	10	10	N	100	2.0	250	1,500	N	50	1.0	N	200	N	15	50
G920	5	<10	N	100	1.5	140	700	N	20	1.5	<100	300	20	20	100
G922	<2	N	N	20	.7	90	N	N	20	2.0	100	150	N	20	100
G927	5	<10	N	70	.5	65	N	N	20	N	100	200	N	10	100

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
G928	47 57 30	121 24 14	.7	.50	7.0	.30	300	100	30	20	10	200	N	1
G929	47 46 50	121 25 42	1.0	1.00	5.0	.30	1,000	100	70	30	20	50	N	1
G930	47 46 49	121 25 39	1.0	1.00	5.0	.20	1,000	100	50	20	20	50	10	5
G931	47 47 55	121 20 50	.7	.70	3.0	.30	1,000	70	30	15	15	20	N	1
G932	47 47 55	121 22 0	.7	.70	5.0	.30	700	100	20	15	15	20	<5	1
G933	47 47 50	121 21 58	.7	.70	5.0	.30	700	100	15	10	15	15	N	2
G934	47 51 10	121 22 36	.7	1.00	5.0	.30	500	150	15	10	15	30	N	1
G935	47 51 19	121 22 27	.7	1.00	3.0	.20	700	70	15	10	15	20	<5	2
G936	47 51 4	121 21 0	.7	1.00	3.0	.30	500	70	20	15	15	15	N	1
GP3009S	48 4 44	121 18 44	1.0	1.50	5.0	.50	1,000	150	150	30	15	20	N	--
GP3015S	48 0 1	121 15 54	5.0	3.00	7.0	.70	1,000	300	500	200	50	50	N	--
GP3016S	48 0 1	121 15 49	2.0	2.00	7.0	.50	1,000	300	300	70	20	20	N	--
GP3017S	48 0 12	121 14 45	2.0	2.00	7.0	.70	1,500	200	150	50	20	30	N	--
GP3021S	48 4 22	121 19 32	1.5	1.50	7.0	.70	1,000	200	150	50	20	30	N	--
GP3022S	48 4 23	121 19 33	2.0	2.00	5.0	.70	1,000	200	300	100	20	20	N	--
GP3025S	48 5 16	121 23 8	2.0	1.50	5.0	.70	1,000	200	200	70	20	30	N	--
GP3026S	48 4 48	121 23 30	2.0	2.00	7.0	.70	1,000	300	300	150	20	30	N	--
GP3027S	48 3 18	121 24 52	1.5	2.00	7.0	.70	1,500	300	150	50	20	30	N	--
GP3029S	47 59 42	121 24 25	2.0	1.50	5.0	.30	700	200	70	50	20	70	N	--
GP3070S	47 59 44	121 13 54	2.0	2.00	5.0	.50	1,000	200	150	30	20	20	N	--
GX0012	47 58 42	121 14 19	2.0	2.00	5.0	.50	3,000	150	100	50	20	30	N	--
GX0013	47 58 21	121 15 28	2.0	2.00	7.0	.50	2,000	200	200	50	20	50	N	--
GX0033	47 58 14	121 17 49	2.0	2.00	5.0	.70	2,000	200	70	20	15	70	N	--
GX0034	47 58 13	121 16 55	1.0	1.00	5.0	.50	1,500	150	100	50	20	30	N	--
GX0035	47 57 41	121 16 31	2.0	1.50	5.0	.50	2,000	200	150	70	30	50	N	--
GX0036	47 56 37	121 16 55	2.0	1.50	5.0	.50	1,000	200	100	50	20	50	N	--
GX0037	47 56 0	121 16 55	1.0	1.00	3.0	.30	1,000	150	70	20	15	30	N	--
GX0038	47 59 20	121 16 55	2.0	1.50	5.0	.50	3,000	200	100	70	30	50	N	--
GX0039	47 59 20	121 17 1	1.5	1.00	5.0	.50	1,500	150	100	50	20	50	N	--
GX0040	47 59 22	121 17 15	2.0	1.50	5.0	.70	1,500	200	150	70	30	70	N	--
GX0456	47 57 27	121 13 15	2.0	2.00	5.0	.70	1,500	200	150	70	20	50	N	--
GX0457	47 57 15	121 13 35	2.0	2.00	5.0	.70	2,000	200	150	100	50	70	N	--
GX0458	47 56 56	121 13 57	1.0	1.50	3.0	.50	1,500	150	50	20	15	30	N	--
GX0459	47 56 27	121 14 38	2.0	2.00	5.0	.70	2,000	200	200	50	20	30	N	--
GX0460	47 56 12	121 14 48	2.0	2.00	5.0	.50	2,000	150	150	50	20	50	N	--
GX0473	47 58 10	121 18 0	2.0	3.00	5.0	.70	2,000	200	100	70	50	100	N	--
GX0474	47 58 2	121 16 42	2.0	2.00	5.0	.50	2,000	200	150	100	50	70	N	--
GX0475	47 57 33	121 16 32	2.0	1.00	5.0	.50	2,000	200	150	70	50	50	N	--
GX0476	47 57 19	121 16 34	2.0	1.50	5.0	.50	2,000	300	150	100	50	70	N	--
GX0634	47 55 55	121 15 26	2.0	1.00	5.0	.70	2,000	200	150	70	30	70	N	--
GX0636	47 55 42	121 16 3	2.0	2.00	10.0	.70	3,000	200	200	100	70	100	<5	--
GX0706	47 54 5	121 19 10	1.5	2.00	5.0	.50	2,000	200	70	20	20	150	10	--
GX0707	47 54 36	121 18 48	2.0	2.00	7.0	.50	2,000	200	70	20	50	200	10	--
GX0708	47 54 48	121 18 42	2.0	2.00	5.0	.50	2,000	200	100	20	20	50	N	--
GX0709	47 55 11	121 18 32	2.0	2.00	5.0	.50	2,000	200	70	15	20	50	N	--

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	CM-W-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
G928	5	10	N	70	<.5	190	200	N	30	N	150	200	N	10	70
G929	<2	N	N	50	N	100	N	N	30	1.0	150	500	N	30	100
G930	5	N	N	70	N	85	N	N	30	1.0	150	300	N	30	100
G931	<2	N	N	30	.5	85	N	N	20	1.5	150	300	N	20	100
G932	2	N	N	30	N	70	N	N	50	1.5	150	300	70	30	150
G933	<2	N	N	30	N	60	N	N	50	1.5	150	300	30	30	100
G934	<2	N	N	50	N	70	N	N	30	1.0	150	300	N	30	150
G935	<2	N	N	50	N	55	N	N	30	1.5	200	200	N	20	100
G936	<2	N	N	15	N	40	N	N	20	1.0	200	150	N	20	100
GP3009S	--	N	.006	15	N	--	N	N	150	<1.0	300	200	20	30	100
GP3015S	--	N	.400	20	10.0	--	N	N	50	N	300	200	20	50	100
GP3016S	--	N	.300	10	N	--	N	N	50	N	300	300	N	30	150
GP3017S	--	N	.500	10	N	--	N	N	70	N	300	300	30	50	200
GP3021S	--	N	.007	15	N	--	N	N	100	N	300	300	20	30	100
GP3022S	--	N	.010	15	N	--	N	N	50	N	300	300	20	20	70
GP3025S	--	N	.004	10	N	--	N	N	70	N	300	500	20	20	200
GP3026S	--	N	.010	10	N	--	N	N	150	N	300	500	20	20	200
GP3027S	--	N	.003	20	N	--	N	N	200	N	300	300	20	30	200
GP3029S	--	N	.009	30	N	--	N	N	100	N	300	500	20	20	70
GP3070S	--	N	<.002	10	N	--	N	N	100	N	200	500	20	30	150
GX0012	N	N	N	20	N	95	N	N	50	1.0	200	500	50	30	100
GX0013	N	N	N	70	N	95	N	N	10	1.0	300	500	50	30	200
GX0033	<1	N	N	20	N	30	N	N	70	1.0	300	500	50	20	200
GX0034	<1	N	N	20	N	110	N	N	100	1.0	300	500	50	20	50
GX0035	N	N	N	20	N	75	N	N	100	1.0	500	500	50	30	150
GX0036	N	N	N	20	N	65	N	N	100	1.0	200	300	50	20	200
GX0037	N	N	N	15	N	85	N	N	100	1.0	300	300	50	10	150
GX0038	<1	N	N	20	N	90	N	N	100	1.0	300	500	50	30	150
GX0039	N	N	N	20	N	100	N	N	200	1.0	500	500	50	20	100
GX0040	N	N	N	20	N	100	N	N	200	1.0	500	500	50	30	150
GX0456	N	N	N	20	N	85	N	N	30	1.0	500	500	50	30	150
GX0457	N	N	N	20	N	100	N	N	30	1.0	500	500	50	50	200
GX0458	N	N	N	20	N	55	N	N	50	1.0	500	300	50	20	200
GX0459	N	N	N	20	N	70	N	N	50	1.0	700	500	50	50	200
GX0460	N	N	N	20	N	85	N	N	50	1.0	500	500	50	30	200
GX0473	<1	N	N	70	N	75	N	N	50	1.0	300	500	50	50	300
GX0474	N	N	N	20	N	70	N	N	50	1.0	300	500	50	30	100
GX0475	<1	N	N	20	N	90	N	N	100	1.0	300	500	50	30	200
GX0476	<1	N	N	30	N	110	N	N	100	1.0	300	500	50	30	150
GX0634	1	N	N	30	N	110	N	N	50	1.0	300	500	50	30	200
GX0636	1	N	N	20	N	90	N	N	100	1.0	300	700	50	50	200
GX0706	<1	N	N	70	N	170	N	N	50	1.0	200	500	50	30	150
GX0707	<1	N	N	70	N	140	N	N	50	1.0	200	500	50	30	150
GX0708	1	N	N	50	N	140	N	N	100	1.0	200	500	50	30	150
GX0709	<1	N	N	20	N	70	N	N	100	1.0	200	500	50	30	200

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
GX0711	47 55 21	121 18 1	2.0	2.00	5.0	.50	1,500	200	100	70	20	50	<5	--
GX0712	47 55 35	121 16 41	2.0	2.00	5.0	.50	2,000	200	150	50	20	50	N	--
GX1030	47 57 13	121 22 12	1.0	1.50	3.0	.50	1,500	150	100	30	20	50	N	--
GX1031	47 58 21	121 24 10	1.5	1.50	5.0	.50	700	150	50	30	20	200	10	--
GX1039	48 0 13	121 23 42	2.0	1.50	5.0	.50	1,500	200	70	50	50	70	N	--
GX1040	47 57 54	121 22 35	2.0	1.00	7.0	.70	2,000	150	100	50	30	50	N	--
GX1041	47 57 57	121 22 38	1.0	1.00	7.0	.50	2,000	200	70	50	30	100	N	--
GX1042	47 57 59	121 22 41	1.0	1.00	7.0	.50	2,000	200	70	50	20	50	N	--
GX1043	47 58 10	121 22 49	.5	.70	5.0	.50	2,000	150	70	30	20	50	N	--
GX1044	47 58 20	121 22 53	1.0	.70	7.0	.50	1,500	200	70	50	30	100	N	--
GX1045	47 56 46	121 22 12	1.0	1.00	5.0	.50	2,000	150	50	30	15	50	N	--
GX1046	47 59 9	121 23 31	.7	1.00	5.0	.50	2,000	150	50	30	30	100	N	--
GX1047	47 57 12	121 23 30	1.5	2.00	7.0	.50	3,000	200	100	50	30	300	N	--
GX1048	47 58 42	121 25 42	10.0	.15	10.0	.05	1,500	70	3,000	3,000	200	500	N	--
GX1049	47 58 36	121 25 42	10.0	.15	10.0	.05	3,000	50	5,000	2,000	150	200	N	--
GX1050	47 55 49	121 20 53	1.0	1.00	5.0	.30	2,000	150	50	20	20	100	N	--
GX1051	47 55 47	121 20 50	1.5	1.50	5.0	.50	2,000	200	70	20	20	100	N	--
GX1052	47 56 51	121 23 47	1.0	.70	10.0	.30	1,000	100	50	20	50	700	N	--
GX1053	47 56 20	121 23 20	1.5	1.50	5.0	.50	2,000	200	70	20	20	700	N	--
GX1054	47 55 50	121 22 56	1.5	1.50	3.0	.30	2,000	200	50	20	15	70	N	--
GX1055	47 55 36	121 21 12	2.0	2.00	5.0	.50	2,000	200	100	50	20	100	N	--
GX1056	47 56 39	121 23 38	1.5	1.50	7.0	.50	2,000	200	50	20	50	2,000	N	--
GX1057	47 56 24	121 23 36	1.5	1.00	7.0	.50	2,000	200	50	30	70	2,000	N	--
GX1058	47 56 13	121 23 16	1.5	1.50	5.0	.50	2,000	200	50	20	20	700	N	--
GX1059	47 55 48	121 22 48	1.5	1.00	3.0	.30	2,000	200	100	50	20	100	N	--
GX1060	47 55 32	121 22 52	1.5	2.00	5.0	.50	2,000	200	70	30	30	300	N	--
GX1063	47 55 20	121 23 0	1.5	2.00	5.0	.50	2,000	200	70	20	20	100	N	--
GX1064	47 55 11	121 23 8	1.5	2.00	10.0	.70	2,000	300	100	20	30	200	N	--
GX1065	47 54 50	121 23 24	1.5	2.00	5.0	.50	2,000	200	70	20	20	200	N	--
GX1066	47 54 46	121 23 28	1.0	1.00	5.0	.50	2,000	200	70	20	20	70	N	--
GX1067	47 54 41	121 23 28	1.5	2.00	5.0	.50	2,000	200	70	20	20	100	N	--
GX1068	47 54 30	121 23 31	1.5	2.00	5.0	.50	2,000	200	70	20	20	50	N	--
GX1069	47 54 19	121 23 40	1.5	1.50	5.0	.50	1,000	200	70	20	20	70	N	--
GX1070	47 54 49	121 21 15	1.5	2.00	7.0	.50	2,000	200	70	20	20	50	N	--
GX1071	47 56 30	121 20 52	1.0	1.00	5.0	.50	1,500	200	30	10	20	70	N	--
GX1072	47 56 39	121 20 37	1.5	2.00	5.0	.50	1,500	200	70	10	15	50	N	--
GX1073	47 57 20	121 20 40	1.5	2.00	5.0	.50	1,500	200	70	20	20	70	N	--
GX1105	47 53 21	121 20 31	.5	2.00	15.0	.15	500	100	30	10	10	30	N	--
GX1106	47 53 16	121 20 49	.7	1.00	3.0	.30	1,000	150	30	15	15	50	N	--
GX1107	47 53 13	121 21 7	1.0	1.50	3.0	.30	2,000	150	30	10	15	30	N	--
GX1108	47 53 21	121 22 0	2.0	2.00	5.0	.50	2,000	200	70	20	20	50	N	--
GX1109	47 53 53	121 25 28	2.0	2.00	5.0	.50	3,000	200	150	50	20	100	N	--
GX1111	47 56 52	121 26 9	1.0	1.00	5.0	.30	1,500	150	50	20	20	500	N	--
GX1113	47 57 32	121 24 37	1.0	1.00	5.0	.50	3,000	150	50	30	100	500	5	--
GX1114	47 57 24	121 25 1	1.0	1.00	7.0	.50	1,000	200	50	30	50	3,000	50	--

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	CM-w-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
GX0711	2	N	N	20	N	50	N	N	70	1.0	200	500	50	30	300
GX0712	1	N	N	20	N	65	N	N	150	1.0	300	500	50	30	200
GX1030	1	N	N	200	10.0	70	N	N	300	1.0	200	500	30	30	200
GX1031	3	N	.150	50	<.5	30	N	N	200	1.0	300	300	30	20	200
GX1039	<1	N	N	100	N	80	N	N	150	1.0	500	500	50	30	150
GX1040	N	N	N	100	1.5	85	N	N	200	<1.0	200	500	30	20	150
GX1041	N	N	N	30	1.0	120	N	N	200	<1.0	200	500	50	50	200
GX1042	2	N	N	70	3.0	140	N	N	200	<1.0	200	500	30	30	150
GX1043	5	N	.200	70	1.5	340	N	N	300	1.0	200	500	30	20	150
GX1044	3	N	.100	100	5.0	260	N	N	200	<1.0	200	500	30	30	150
GX1045	<1	N	N	70	N	100	N	N	200	1.0	300	300	50	20	200
GX1046	2	N	.100	700	7.0	760	1,000	150	300	1.0	150	300	50	20	100
GX1047	N	N	.300	300	5.0	260	1,500	100	200	1.0	300	500	50	30	200
GX1048	N	N	N	20	N	55	N	N	100	N	N	N	N	N	10
GX1049	1	N	N	20	N	50	N	N	20	N	N	N	N	N	10
GX1050	<1	N	N	70	N	95	N	N	150	1.0	200	300	50	30	100
GX1051	<1	N	N	70	N	85	N	<100	200	<1.0	200	500	50	30	150
GX1052	50	N	.350	30	N	230	300	N	100	<1.0	100	300	50	30	100
GX1053	<1	N	.100	50	N	110	N	N	50	<1.0	200	300	50	30	300
GX1054	<1	N	N	50	N	60	N	N	100	1.0	200	300	50	30	100
GX1055	<1	N	.100	70	N	110	N	N	200	1.0	200	500	50	30	150
GX1056	1	N	.050	50	1.0	75	N	N	100	1.0	200	300	50	30	300
GX1057	N	N	.100	50	2.0	75	N	N	100	1.0	200	300	50	30	200
GX1058	1	N	.200	50	N	95	N	N	50	1.0	200	300	50	20	200
GX1059	<1	N	--	30	N	65	N	N	100	1.0	200	300	50	30	200
GX1060	1	N	N	30	N	85	N	N	100	<1.0	200	500	50	30	300
GX1063	<1	N	.200	300	2.0	280	200	N	100	<1.0	200	500	50	30	500
GX1064	1	N	.200	200	N	200	<200	N	300	<1.0	200	500	50	50	1,000
GX1065	<1	N	.100	150	2.0	280	<200	N	50	1.0	200	500	50	30	100
GX1066	<1	N	N	50	N	75	N	N	200	1.0	200	500	50	30	150
GX1067	1	N	<.050	100	N	140	<200	N	200	1.0	300	500	50	30	200
GX1068	<1	N	<.050	50	N	55	N	N	200	<1.0	200	500	50	30	200
GX1069	1	N	N	50	N	85	N	N	100	1.0	200	500	50	30	200
GX1070	<1	N	N	70	2.0	110	N	N	200	<1.0	200	500	50	30	200
GX1071	N	N	N	50	N	90	N	N	200	<1.0	200	300	50	20	100
GX1072	<1	N	N	20	N	40	N	N	70	<1.0	200	500	50	20	100
GX1073	N	N	N	100	N	60	N	N	100	1.0	200	500	50	30	200
GX1105	N	N	N	30	N	40	10,000	N	500	50.0	500	500	50	100	50
GX1106	1	N	N	30	N	70	300	N	150	1.5	200	200	50	30	50
GX1107	1	N	N	50	N	170	N	N	200	1.0	200	200	50	20	150
GX1108	<1	N	N	50	N	50	N	N	100	1.0	200	300	50	20	200
GX1109	20	N	N	30	N	90	N	N	70	1.0	300	500	50	30	150
GX1111	N	N	.200	70	N	110	200	N	70	1.0	200	300	50	100	70
GX1113	50	30	.300	500	20.0	220	1,000	N	200	1.0	200	200	50	20	300
GX1114	50	N	.300	50	3.0	180	<200	N	100	1.0	200	200	50	20	70

Table 2. Analytical data for stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-V	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P
GX1115	47 57 18	121 25 40	3.0	1.00	5.0	.30	1,500	100	500	300	50	3,000	20	--
GX1116	47 56 18	121 26 17	.5	.70	5.0	.50	2,000	150	70	30	20	200	N	--
GX1117	47 55 32	121 26 20	2.0	1.00	5.0	.50	3,000	150	70	50	30	500	N	--
GX813	47 59 36	121 23 12	2.0	2.00	7.0	.50	2,000	200	150	50	70	200	N	--
GX814	47 59 48	121 23 36	2.0	1.50	5.0	.50	2,000	200	150	50	50	150	N	--

Sample	CM-M-P	S-BI	AA-AU-P	S-PB	S-AG	AA-ZN-P	S-AS	S-SB	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
GX1115	20	N	.100	70	1.0	150	<200	N	100	1.0	200	200	50	30	50
GX1116	10	N	1.500	100	3.0	140	200	N	100	1.0	200	300	50	20	100
GX1117	<1	N	--	100	2.0	180	200	N	100	1.0	200	500	50	20	100
GX813	<1	N	N	70	N	140	N	N	200	1.0	500	700	50	30	200
GX814	<1	N	N	150	N	260	N	N	200	1.0	300	500	50	30	200

Table 3. Analytical data for panned concentrates from stream sediments from the Monte Cristo-Eagle Rock study areas, Washington

[The following qualifiers are used in reporting the spectrographic data: --, no determination made; N, concentration less than the detection limit; L, detected, but present at a concentration less than the value reported; G, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable.]

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P	CM-W-P
G1102	47 51 18	121 18 45	3.0	1.5	30.0	1.0	10,000	200	30	70	200	N	3	--
G1104	47 53 4	121 20 29	5.0	5.0	20.0	1.0	5,000	70	30	70	100	N	8	--
G12	47 59 18	121 18 42	3.0	5.0	15.0	2.0	5,000	150	70	50	100	N	10	2
G14	48 2 30	121 18 8	5.0	2.0	20.0	1.0	7,000	300	70	50	100	N	1	2
G201	47 50 0	121 25 55	5.0	2.0	20.0	>2.0	5,000	100	70	150	1,000	70	7	--
G203	47 46 26	121 19 27	5.0	3.0	15.0	1.5	5,000	100	50	50	150	N	--	--
G206	47 44 38	121 19 18	5.0	3.0	30.0	>2.0	10,000	300	70	70	100	N	--	--
G209	48 3 10	121 21 31	5.0	5.0	15.0	>2.0	5,000	500	200	50	200	N	<1	1
G214	48 4 7	121 22 20	7.0	5.0	20.0	>2.0	7,000	1,000	500	70	150	N	<1	1
G219	48 0 39	121 20 52	5.0	3.0	20.0	>2.0	10,000	700	150	70	500	N	2	N
G24	47 48 59	121 25 20	2.0	1.5	20.0	>2.0	3,000	50	30	50	5,000	50	29	100
G31	47 51 27	121 24 53	3.0	3.0	20.0	>2.0	5,000	50	30	70	1,000	10	8	15
G36	47 52 35	121 22 32	3.0	5.0	15.0	>2.0	5,000	50	30	30	700	N	2	2
G402	47 45 52	121 22 42	5.0	3.0	15.0	.7	3,000	70	70	70	50	N	4	--
G404	47 46 48	121 23 4	5.0	3.0	15.0	1.0	5,000	700	70	70	30	N	3	--
G417	47 46 0	121 24 7	5.0	3.0	20.0	1.0	5,000	700	70	70	30	N	1	--
G423	48 2 23	121 23 40	5.0	3.0	20.0	1.5	5,000	150	50	70	200	N	2	5
G6	47 46 53	121 25 15	7.0	5.0	20.0	1.5	5,000	100	100	100	300	N	8	--
G604	47 59 25	121 19 0	2.0	1.0	20.0	1.0	10,000	500	70	50	200	N	1	1
G611	47 49 17	121 30 42	5.0	5.0	15.0	1.0	5,000	300	100	50	300	N	1	10
G614	47 50 8	121 28 45	5.0	5.0	20.0	1.0	5,000	100	70	70	300	N	2	15
G618	47 48 34	121 19 26	3.0	3.0	10.0	1.5	2,000	200	70	70	200	N	2	5
G623	47 50 42	121 18 29	1.0	1.0	30.0	1.0	5,000	150	70	150	1,000	N	5	10
G804	47 44 27	121 25 56	3.0	3.0	20.0	1.0	10,000	1,000	100	50	70	N	3	50
G807	47 44 12	121 22 58	5.0	3.0	15.0	1.0	5,000	200	70	70	30	N	2	1
G817A	47 49 56	121 23 53	5.0	3.0	20.0	1.0	5,000	70	50	70	20	N	--	--
G820	47 49 52	121 24 10	5.0	3.0	15.0	1.0	3,000	50	50	70	70	N	--	--
G823	47 49 50	121 24 20	5.0	2.0	20.0	1.0	5,000	30	50	70	30	20	16	--
G901A	47 59 57	121 15 59	7.0	5.0	20.0	1.5	3,000	700	100	70	50	N	3	15
G903	47 59 52	121 18 38	1.5	.7	15.0	1.0	7,000	200	30	20	30	N	2	5
G906A	48 1 22	121 18 32	3.0	2.0	30.0	1.0	10,000	200	70	50	150	N	2	2
G907A	48 1 17	121 18 25	3.0	2.0	20.0	1.0	10,000	300	100	50	100	N	2	2
G932A	47 47 55	121 22 0	3.0	2.0	20.0	>2.0	3,000	70	20	50	30	N	1	--
G936A	47 51 4	121 21 0	5.0	3.0	15.0	1.0	5,000	50	50	70	10	N	2	1
G937A	47 48 27	121 20 25	5.0	3.0	15.0	1.0	3,000	100	30	70	70	N	4	--
GP02GX	48 2 36	121 18 6	.7	7.0	5.0	>2.0	300	300	100	100	100	N	--	--
GP04GX	48 2 15	121 18 3	.2	7.0	2.0	>2.0	300	500	50	20	50	N	--	--
GP06GX	48 4 24	121 18 27	.2	20.0	.7	>2.0	500	150	20	30	15	N	--	--
GP3009C	48 4 44	121 18 44	.5	5.0	1.5	>2.0	200	500	30	10	20	N	--	--
GP3015C	48 0 1	121 15 54	1.5	5.0	2.0	>2.0	300	500	200	30	30	N	--	--
GP3016C	48 0 1	121 15 49	.7	7.0	1.0	>2.0	200	300	70	15	20	N	--	--
GP3017C	48 0 12	121 14 45	.5	5.0	1.0	>2.0	200	500	50	10	20	N	--	--
GP3021C	48 4 22	121 19 32	.5	7.0	2.0	>2.0	300	500	50	30	70	N	--	--
GP3025C	48 5 16	121 23 8	1.0	10.0	2.0	>2.0	500	200	30	15	20	N	--	--
GP3026C	48 4 48	121 23 30	2.0	10.0	2.0	>2.0	700	500	300	30	100	N	--	--

Table 3. Analytical data for panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	S-SN	S-BI	S-PB	S-AG	AA-ZN-P	S-AS	INST-HG	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
G1102	N	N	<20	N	90	N	--	50	N	N	100	70	500	>2,000
G1104	N	N	50	N	110	N	--	70	N	200	1,000	70	150	>2,000
G12	N	N	30	N	200	N	--	200	N	200	200	N	100	1,500
G14	N	N	N	N	50	N	--	200	N	N	100	70	200	1,000
G201	N	N	300	.5	240	N	--	500	N	N	5,000	500	200	>2,000
G203	N	N	20	N	60	N	--	30	N	N	300	N	50	>2,000
G206	N	N	30	N	--	N	--	50	N	N	200	300	200	2,000
G209	N	N	20	N	90	N	--	70	N	<200	150	150	100	>2,000
G214	N	N	20	N	50	N	--	100	N	<200	150	100	100	>2,000
G219	20	N	300	10.0	280	1,000	--	500	N	200	300	N	150	2,000
G24	N	100	100	5.0	40	N	--	100	N	<200	1,000	500	200	2,000
G31	N	N	700	5.0	2,350	N	--	50	N	200	2,000	100	100	2,000
G36	N	N	70	<1.0	300	N	--	200	N	300	500	100	100	2,000
G402	N	N	20	N	50	N	--	500	N	N	100	700	200	>2,000
G404	N	N	<20	N	50	N	--	300	N	<200	100	500	200	1,500
G417	N	N	<20	N	30	N	--	200	N	<200	100	1,000	200	>2,000
G423	N	N	30	N	75	N	--	1,000	N	<200	150	50	200	>2,000
G6	30	N	20	1.0	60	N	--	200	N	N	100	1,500	300	>2,000
G604	N	N	100	2.0	240	2,000	--	1,000	N	N	300	50	200	500
G611	N	N	20	N	80	N	--	200	N	200	150	50	70	500
G614	N	N	70	<1.0	260	N	--	100	N	500	150	500	200	1,000
G618	N	N	500	N	150	N	--	200	N	200	100	100	70	1,500
G623	N	20	200	3.0	800	N	--	50	N	N	700	N	150	>2,000
G804	20	N	200	N	35	N	--	50	N	200	100	200	200	1,000
G807	N	N	30	N	30	N	--	70	N	<200	100	200	100	>2,000
G817A	N	N	20	N	30	N	--	100	N	N	70	N	100	>2,000
G820	N	N	20	1.0	--	N	--	150	N	N	100	500	100	1,500
G823	N	20	20	N	--	N	--	100	N	<200	100	700	200	2,000
G901A	N	N	N	N	30	N	--	20	N	<200	150	N	100	300
G903	N	N	N	N	35	N	--	200	N	N	100	N	200	150
G906A	N	N	<20	N	50	N	--	1,000	N	N	150	N	300	200
G907A	N	N	<20	1.0	70	N	--	700	N	N	200	N	200	150
G932A	20	N	70	N	100	N	--	50	N	300	150	200	200	1,500
G936A	N	N	<20	N	25	N	--	30	N	N	N	N	100	>2,000
G937A	N	N	20	N	--	N	--	500	N	N	100	70	200	>2,000
GP02GX	N	N	50	N	--	10,000	.04	70	N	200	500	100	300	>2,000
GP04GX	N	N	50	N	--	2,000	.02	200	N	200	10,000	100	200	>2,000
GP06GX	20	N	<20	N	--	500	N	70	N	500	300	100	700	>2,000
GP3009C	30	<20	<20	N	--	N	.02	200	N	200	300	150	300	>2,000
GP3015C	N	N	<20	N	--	N	.04	100	N	1,000	200	N	100	>2,000
GP3016C	N	N	<20	N	--	N	2.00	30	N	500	200	N	500	>2,000
GP3017C	30	N	<20	N	--	N	1.10	150	2	200	200	70	200	>2,000
GP3021C	50	N	30	N	--	2,000	.30	200	N	300	300	150	200	2,000
GP3025C	20	N	30	N	--	N	.04	30	2	300	200	100	300	>2,000
GP3026C	N	N	<20	N	--	N	>10.00	200	N	300	300	N	300	>2,000

Table 3. Analytical data for panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

Sample	LATITUDE	LONGITUD	S-MG%	S-CA%	S-FE%	S-TI%	S-MN	S-CR	S-NI	S-CO	S-CU	S-MO	AA-MO-P	CM-W-P
GP3027C	48 3 18	121 24 52	1.0	5.0	1.5	>2.0	500	150	70	50	200	N	--	--
GP3029C	47 59 42	121 24 25	.7	5.0	10.0	>2.0	700	70	50	100	500	N	--	--
GP3070C	47 59 44	121 13 54	.5	10.0	1.0	>2.0	300	300	N	N	20	N	--	--
GP707GX	47 56 57	121 16 48	.3	3.0	1.5	>2.0	200	200	30	10	20	N	--	--
GX0710C	47 55 12	121 18 32	2.0	5.0	10.0	>2.0	1,500	150	70	70	300	N	--	--
GX0713C	47 55 40	121 16 40	3.0	5.0	7.0	>2.0	1,500	300	70	30	50	N	--	--
GX1061C	47 55 27	121 22 47	1.5	5.0	7.0	>2.0	1,000	100	30	20	500	N	--	--
GX1062C	47 55 40	121 22 47	2.0	5.0	10.0	2.0	1,500	100	50	50	1,500	N	--	--
GX1110C	47 56 54	121 26 5	.3	2.0	15.0	2.0	700	150	150	300	5,000	200	--	--
GX1112C	47 57 37	121 24 32	.5	2.0	10.0	>2.0	500	100	70	150	2,000	10	--	--

Sample	S-SN	S-BI	S-PB	S-AG	AA-ZN-P	S-AS	INST-HG	S-B	S-BE	S-SR	S-BA	S-LA	S-Y	S-ZR
GP3027C	20	N	<20	N	--	N	2.00	200	N	N	150	100	1,000	>2,000
GP3029C	N	N	50	N	--	N	.14	50	N	200	300	N	50	>2,000
GP3070C	N	N	<20	N	--	N	>10.00	100	N	300	300	50	200	>2,000
GP707GX	N	N	20	N	--	N	N	300	3	300	500	N	150	>2,000
GX0710C	20	N	100	N	--	700	--	300	N	N	70	50	200	>2,000
GX0713C	N	N	100	N	--	500	--	500	N	<200	100	50	100	>2,000
GX1061C	50	N	150	N	--	1,000	--	3,000	N	200	150	N	150	2,000
GX1062C	70	N	500	7.0	--	700	--	150	N	200	100	50	150	>2,000
GX1110C	50	300	200	20.0	--	>20,000	--	200	N	N	100	100	150	>2,000
GX1112C	50	300	2,000	50.0	--	20,000	--	150	N	N	150	N	70	>2,000

Table 4. Mineralogy of some panned concentrate samples from the Monte Cristo-Eagle Rocks study areas, Washington

Sample	LATITUDE	LONGITUD	Nonmagnetic, heavy mineral fraction: Py/As/Pr	Cu-sulf.	Moly-s	Schelit.	Galena	Barite	Tourm.	Epidote	Apatite
GP02GX	48 2 36	121 18 0	2	--	--	--	--	--	--	--	2
GP04GX	48 2 15	121 18 3	--	--	--	--	--	--	--	--	2
GP06GX	48 4 24	121 18 27	--	--	--	--	--	--	--	--	5
GP3009C	48 4 44	121 18 44	2	--	--	--	--	--	--	--	2
GP3015C	48 0 1	121 15 54	--	--	--	--	--	--	--	--	--
GP3016C	48 0 1	121 15 49	--	--	--	--	--	--	--	3	3
GP3017C	48 0 12	121 14 45	--	--	--	--	--	--	3	3	--
GP3021C	48 4 22	121 19 32	2	--	--	2	--	--	2	4	--
GP3025C	48 5 16	121 23 8	--	--	--	--	--	--	2	4	--
GP3026C	48 4 46	121 23 30	--	--	--	--	--	--	--	--	2
GP3027C	48 3 18	121 24 52	--	--	--	--	--	--	--	--	--
GP3029C	47 59 42	121 24 25	3	--	--	--	--	--	--	--	--
GP3070C	47 59 44	121 13 54	--	--	--	--	--	--	--	--	--
GP707GX	47 56 57	121 16 48	--	--	--	--	--	--	--	--	2

Sample	Nonmagnetic, heavy mineral fraction--continued: Sphene	Rutile	Zircon	Px-Amph.	Rk-frags	Ky-Sill.	Magnetic, heavy mineral fraction: m-Garnet	m-Silic.
GP02GX	--	--	2	3	3	2	2	2
GP04GX	--	2	2	--	4	5	2	2
GP06GX	4	2	4	--	3	--	2	3
GP3009C	--	2	2	5	--	5	1	4
GP3015C	--	3	--	6	--	--	--	2
GP3016C	--	3	3	3	--	--	--	2
GP3017C	--	3	--	3	--	3	1	2
GP3021C	--	--	--	3	3	--	--	2
GP3025C	--	2	--	3	--	2	--	2
GP3026C	--	--	2	3	--	2	--	3
GP3027C	--	--	3	3	--	--	--	2
GP3029C	--	--	--	--	--	--	--	4
GP3070C	--	2	2	--	6	2	2	2
GP707GX	--	4	2	3	--	5	1	5

Explanation for data for nonmagnetic, heavy mineral fraction

-- none observed in mineral separate

2--trace component, only a few grains recognized

3--one of the common minerals present, probably less than 10% of the sample

4--a dominant mineral present, >20% of the sample

5--the dominent mineral present, >50% of the sample

6--the most abundant mineral present, >80% of the sample

Explanation for data for magnetic, heavy mineral fraction

-- none observed in mineral separate

1--mineral component abundant, >50% of the magnetic fraction

2--mineral component common, probably 20-50% of the magnetic fraction

3--mineral component is less than 10% of the magnetic fraction

Table 5. Fisher K statistics on analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington

[The following qualifiers are used in reporting the spectrographic data: --, no determination made; N, concentration less than the detection limit; L, detected, but present at a concentration less than the value reported; G, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable.]

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
3	S-MG%	0	0	0	0	1	0	228	0	0.5000000	10.000000	3
4	S-CA%	0	0	0	0	1	0	228	0	0.1500000	3.0000000	4
5	S-FE%	0	0	0	0	1	0	228	0	1.0000000	15.000000	5
6	S-TI%	0	0	0	0	1	0	228	0	0.0500000	1.0000000	6
7	S-MN	0	0	0	0	1	0	228	0	300.00000	3000.0000	7
8	S-V	0	0	0	0	1	0	228	0	20.000000	500.00000	8
9	S-CR	0	0	0	0	1	0	228	0	10.000000	5000.0000	9
10	S-NI	0	0	0	0	1	0	228	0	7.0000000	3000.0000	10
11	S-CO	0	0	0	0	1	0	228	0	5.0000000	200.00000	11
12	S-CU	0	0	0	0	1	0	228	0	15.000000	3000.0000	12
13	S-MO	187	0	10	0	1	0	31	0	5.0000000	50.000000	13
14	AA-MO-P	0	0	10	0	97	0	122	0	1.0000000	24.000000	14
15	CM-W-P	22	9	133	0	17	0	48	0	1.0000000	20.000000	15
16	S-BI	218	0	5	0	1	0	5	0	10.000000	30.000000	16
17	AA-AU-P	154	0	7	0	22	0	46	0	0.0020000	95.000000	17
18	S-PB	0	0	1	0	1	0	227	0	10.000000	700.00000	18
19	S-AG	184	0	12	0	1	0	32	0	0.5000000	20.000000	19
20	AA-ZN-P	0	0	0	0	16	0	213	0	20.000000	760.00000	20
21	S-AS	200	0	5	0	1	0	23	0	200.00000	10000.000	21
22	S-SB	225	0	1	0	1	0	2	0	100.00000	150.00000	22
23	S-B	0	0	1	0	1	0	227	0	10.000000	500.00000	23
24	S-BE	30	0	54	0	1	0	144	0	1.0000000	50.000000	24
25	S-SR	6	0	3	0	1	0	219	0	100.00000	700.00000	25
26	S-BA	2	0	0	0	1	0	226	0	100.00000	1000.0000	26
27	S-LA	109	0	0	0	1	0	119	0	20.000000	150.00000	27
28	S-Y	3	0	0	0	1	0	225	0	10.000000	100.00000	28
29	S-ZR	0	0	0	0	1	0	228	0	10.000000	1000.0000	29

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
3	S-MG%	1.4114035	0.9794594	0.9593408	5.8217358	6.1957395	47.329498	51.426399	3
4	S-CA%	1.1787281	0.5347581	0.2859662	0.0908270	0.5939406	-0.0026758	-0.0327208	4
5	S-FE%	5.1820175	1.7581732	3.0911730	8.0067411	1.4732309	52.350523	5.4786606	5
6	S-TI%	0.4224561	0.1822694	0.0332221	0.0040312	0.6657199	0.0010923	0.9896541	6
7	S-MN	1228.5088	610.85876	373148.43	2.2528560D+08	0.9883506	6.1145865D+10	0.4391409	7
8	S-V	146.05263	63.149615	3987.8739	268363.13	1.0656405	58083892.	3.6523542	8
9	S-CR	128.42105	383.89083	147372.17	6.1936162D+08	10.947655	2.7893842D+12	128.43323	9
10	S-NI	62.802632	237.20845	56267.851	1.4497305D+08	10.861674	3.9075298D+11	123.41889	10
11	S-CO	26.250000	19.974516	398.98128	37625.408	4.7212005	5075281.8	31.882703	11
12	S-CU	162.98246	384.35868	147731.59	2.9930409D+08	5.2711161	6.8550587D+11	31.409745	12
13	S-MO	9.0967742	8.6191834	74.290323	2499.5951	3.9036538	97015.342	17.578262	13
14	AA-MO-P	3.8524590	3.0169552	9.1020187	99.481019	3.6227106	1600.3489	19.316980	14
15	CM-W-P	4.0833333	4.8502394	23.524823	275.42399	2.4138608	3036.6205	5.4870360	15
16	S-BI	14.000000	8.9442719	80.000000	1600.0000	2.2360680	32000.000	5.0000000	16
17	AA-AU-P	2.2443043	13.982216	195.50235	18530.698	6.7789713	1756980.2	45.968769	17
18	S-PB	46.894273	69.528611	4834.2277	1944148.0	5.7841382	1.0150175D+09	43.432952	18
19	S-AG	3.3968750	4.0729227	16.588700	182.08358	2.6949597	2313.1405	8.4057667	19
20	AA-ZN-P	114.01408	87.539559	7663.1743	2500352.9	3.7272477	1.1448004D+09	19.494512	20
21	S-AS	1021.7391	2030.8880	4124505.9	3.5767837D+10	4.2700679	3.2973994D+14	19.383299	21
22	S-SB	125.00000	35.355339	1250.0000					22
23	S-B	87.224670	69.301239	4802.6617	591542.12	1.7773079	1.2524235D+08	5.4298423	23
24	S-BE	1.4513889	4.0810493	16.654963	811.39236	11.937555	39663.112	142.98795	24
25	S-SR	211.64384	98.096756	9622.9735	1775386.4	1.8807408	4.1109021D+08	4.4393415	25
26	S-BA	367.92035	145.14242	21066.323	4069350.2	1.3308894	1.4582344D+09	3.2858663	26
27	S-LA	42.100840	18.634484	347.24398	11840.113	1.8298006	1117603.0	9.2686846	27
28	S-Y	26.844444	11.775344	138.65873	5630.8570	3.4486861	355523.01	18.491548	28
29	S-ZR	165.70175	130.37708	16998.184	7361373.4	3.3216591	4.4931660D+09	15.550610	29

NOTE: THE ABOVE STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY.

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington

FREQUENCY TABLE FOR VARIABLE 3 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-4.170E-01	-2.503E-01	8	8	3.49	3.49	1.158E+01	1.109E+00
-2.503E-01	-8.367E-02	29	37	12.66	16.16	3.271E+01	4.205E-01
-8.367E-02	8.300E-02	75	112	32.75	48.91	5.708E+01	5.628E+00
8.300E-02	2.497E-01	59	171	25.76	74.67	6.159E+01	1.091E-01
2.497E-01	4.163E-01	51	222	22.27	96.94	4.110E+01	2.382E+00
4.163E-01	5.830E-01	3	225	1.31	98.25	1.696E+01	1.149E+01
5.830E-01	7.497E-01	1	226	0.44	96.69	4.321E+00	2.553E+00
7.497E-01	9.163E-01	0	226	0.00	98.69	6.793E-01	6.793E-01
9.163E-01	1.083E+00	2	228	0.87	99.56	6.580E-02	5.686E+01
1.083E+00	1.250E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.250E+00	1.416E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.416E+00	1.583E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.583E+00	1.750E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.750E+00	1.916E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.916E+00	2.083E+00	1	229	0.44	100.00	4.068E-03	2.439E+02
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.261E+02	3.251E+02

HISTOGRAM FOR VARIABLE 3 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E-01 XXX
 6.808E-01 XXXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.467E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
 2.153E+00 XXXXXXXXXXXXXXXXXXXXX
 3.160E+00 X
 4.638E+00
 6.808E+00
 9.992E+00 X
 1.467E+01
 2.153E+01
 3.160E+01
 4.638E+01
 6.808E+01
 9.992E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 1.21000E+02

GEOMETRIC MEAN = 1.28650E+00
GEOMETRIC DEVIATION = 1.71971E+00
VARIANCE OF LOGS = 5.54392E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 4 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-9.170E-01	-7.503E-01	3	3	1.31	1.31	1.643E-01	4.895E+01
-7.503E-01	-5.837E-01	1	4	0.44	1.75	1.292E+00	6.607E-02
-5.837E-01	-4.170E-01	4	8	1.75	3.49	6.534E+00	9.828E-01
-4.170E-01	-2.503E-01	20	28	8.73	12.23	2.126E+01	7.454E-02
-2.503E-01	-8.367E-02	27	55	11.79	24.02	4.454E+01	6.907E+00
-8.367E-02	8.300E-02	91	146	39.74	63.76	6.012E+01	1.586E+01
8.300E-02	2.497E-01	36	182	15.72	79.48	5.230E+01	5.082E+00
2.497E-01	4.163E-01	43	225	18.78	98.25	2.932E+01	6.383E+00
4.163E-01	5.830E-01	2	227	0.87	99.13	1.059E+01	6.964E+00
5.830E-01	7.497E-01	1	228	0.44	99.56	2.460E+00	8.667E-01
7.497E-01	9.163E-01	0	228	0.00	99.56	3.676E-01	3.676E-01
9.163E-01	1.083E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.083E+00	1.250E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.250E+00	1.416E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.416E+00	1.583E+00	1	229	0.44	100.00	3.756E-02	2.466E+01
	G	0	229	0.00	100.00		
	H	0	229				
	B	1	230				
TOTALS LESS H AND B		229				2.290E+02	1.172E+02

HISTOGRAM FOR VARIABLE 4 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E-01 X
2.153E-01
3.160E-01 XX
4.638E-01 XXXXXXXXX
6.808E-01 XXXXXXXXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00 XXXXXXXXXXXXXXX
2.153E+00 XXXXXXXXXXXXXXXXXX
3.160E+00 X
4.638E+00
6.808E+00
9.992E+00
1.467E+01
2.153E+01
3.160E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E-01
MAXIMUM ANTILOG = 2.70000E+01

GEOMETRIC MEAN = 1.07187E+00
GEOMETRIC DEVIATION = 1.76482E+00
VARIANCE OF LOGS = 6.08612E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 5 (S-FE%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-8.400E-02 - 8.267E-02	2	2	0.87	0.87	1.145E-02	3.455E+02
8.267E-02 - 2.493E-01	1	3	0.44	1.31	5.250E-01	4.299E-01
2.493E-01 - 4.160E-01	5	8	2.18	3.49	8.341E+00	1.339E+00
4.160E-01 - 5.827E-01	28	36	12.23	15.72	4.636E+01	7.273E+00
5.827E-01 - 7.493E-01	151	187	65.94	81.66	9.149E+01	3.871E+01
7.493E-01 - 9.160E-01	28	215	12.23	93.89	6.456E+01	2.071E+01
9.160E-01 - 1.083E+00	12	227	5.24	99.13	1.623E+01	1.103E+00
1.083E+00 - 1.249E+00	2	229	0.87	100.00	1.479E+00	1.834E-01
G	0	229	0.00	100.00		
H	0	229				
B	1	230				
TOTALS LESS H AND B	229				2.290E+02	4.152E+02

HISTOGRAM FOR VARIABLE 5 (S-FE%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E-01 X
1.466E+00
2.151E+00 XX
3.157E+00 XXXXXXXXXXXX
4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+00 XXXXXXXXXXXX
9.985E+00 XXXXX
1.466E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 1.70000E+01
GEOMETRIC MEAN = 4.92963E+00
GEOMETRIC DEVIATION = 1.43489E+00
VARIANCE OF LOGS = 2.45925E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-1.417E+00	-1.250E+00	2	2	0.88	0.88	1.289E-02	3.064E+02
-1.250E+00	-1.084E+00	1	3	0.44	1.32	2.169E-01	2.828E+00
-1.084E+00	-9.170E-01	1	4	0.44	1.75	2.119E+00	5.911E-01
-9.170E-01	-7.503E-01	9	13	3.95	5.70	1.167E+01	6.124E-01
-7.503E-01	-5.837E-01	24	37	10.53	16.23	3.632E+01	4.182E+00
-5.837E-01	-4.170E-01	63	100	27.63	43.86	6.397E+01	1.457E-02
-4.170E-01	-2.503E-01	100	200	43.86	87.72	6.380E+01	2.053E+01
-2.503E-01	-8.366E-02	21	221	9.21	96.93	3.605E+01	6.283E+00
-8.366E-02	8.300E-02	7	228	3.07	100.00	1.383E+01	3.375E+00
	G	0	228	0.00	100.00		
	H	0	228				
	B	2	230				
TOTALS LESS H AND B		228				2.280E+02	3.448E+02

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-02 X
6.808E-02
9.992E-02
1.467E-01 XXXX
2.153E-01 XXXXXXXXXXX
3.160E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E-01 XXXXXXXXX
9.992E-01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E-02
MAXIMUM ANTILOG      =  1.00000E+00
GEOMETRIC MEAN       =  3.82173E-01
GEOMETRIC DEVIATION  =  1.64305E+00
VARIANCE OF LOGS     =  4.05049E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.416E+00 -	2.583E+00	3	3	1.31	1.31	3.120E+00	4.578E-03
2.583E+00 -	2.749E+00	17	20	7.42	8.73	1.594E+01	7.072E-02
2.749E+00 -	2.916E+00	46	66	20.09	28.82	4.479E+01	3.283E-02
2.916E+00 -	3.083E+00	83	149	36.24	65.07	6.935E+01	2.686E+00
3.083E+00 -	3.249E+00	23	172	10.04	75.11	5.922E+01	2.216E+01
3.249E+00 -	3.416E+00	49	221	21.40	96.51	2.788E+01	1.599E+01
3.416E+00 -	3.583E+00	8	229	3.49	100.00	8.341E+00	1.392E-02
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.286E+02	4.095E+01

HISTOGRAM FOR VARIABLE 7 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+02 X
4.634E+02 XXXXXXX
6.802E+02 XXXXXXXXXXXXXXXXXXX
9.985E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+03 XXXXXXXXXX
2.151E+03 XXXXXXXXXXXXXXXXXXXX
3.157E+03 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  3.00000E+02
MAXIMUM ANTILOG      =  3.00000E+03
GEOMETRIC MEAN       =  1.09258E+03
GEOMETRIC DEVIATION  =  1.62358E+00
VARIANCE OF LOGS     =  4.42993E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 8 (S-V)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.250E+00 -	1.417E+00	1	1	0.44	0.44	4.982E-02	1.812E+01
1.417E+00 -	1.583E+00	1	2	0.44	0.87	7.714E-01	6.773E-02
1.583E+00 -	1.750E+00	8	10	3.49	4.37	6.386E+00	4.080E-01
1.750E+00 -	1.917E+00	25	35	10.92	15.28	2.746E+01	2.210E-01
1.917E+00 -	2.083E+00	58	93	25.33	40.61	6.156E+01	2.061E-01
2.083E+00 -	2.250E+00	58	151	25.33	65.94	7.207E+01	2.747E+00
2.250E+00 -	2.417E+00	67	218	29.26	95.20	4.408E+01	1.192E+01
2.417E+00 -	2.583E+00	10	228	4.37	99.56	1.407E+01	1.177E+00
2.583E+00 -	2.750E+00	1	229	0.44	100.00	2.547E+00	9.398E-01
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	3.581E+01

HISTOGRAM FOR VARIABLE 8 (S-V)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01
3.162E+01
4.642E+01 XXX
6.813E+01 XXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXXXXXXXXXXXX
2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+02 XXXX
4.642E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  5.00000E+02
GEOMETRIC MEAN       =  1.32984E+02
GEOMETRIC DEVIATION  =  1.58859E+00
VARIANCE OF LOGS     =  4.04052E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 9 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	3	3	1.31	1.31	2.310E+00	2.060E-01
1.083E+00 -	1.249E+00	6	9	2.62	3.93	6.234E+00	8.789E-03
1.249E+00 -	1.416E+00	10	19	4.37	8.30	1.366E+01	9.825E-01
1.416E+00 -	1.583E+00	26	45	11.35	19.65	2.433E+01	1.151E-01
1.583E+00 -	1.749E+00	31	76	13.54	33.19	3.518E+01	4.966E-01
1.749E+00 -	1.916E+00	54	130	23.58	56.77	4.133E+01	3.886E+00
1.916E+00 -	2.083E+00	39	169	17.03	73.80	3.944E+01	4.840E-03
2.083E+00 -	2.249E+00	37	206	16.16	89.96	3.057E+01	1.352E+00
2.249E+00 -	2.416E+00	10	216	4.37	94.32	1.925E+01	4.445E+00
2.416E+00 -	2.583E+00	9	225	3.93	98.25	9.846E+00	7.267E-02
2.583E+00 -	2.749E+00	2	227	0.87	99.13	4.090E+00	1.068E+00
2.749E+00 -	2.916E+00	0	227	0.00	99.13	1.380E+00	1.380E+00
2.916E+00 -	3.083E+00	0	227	0.00	99.13	3.782E-01	3.782E-01
3.083E+00 -	3.249E+00	0	227	0.00	99.13	8.416E-02	8.416E-02
3.249E+00 -	3.416E+00	0	227	0.00	99.13	1.521E-02	1.521E-02
3.416E+00 -	3.583E+00	1	228	0.44	99.56	0.000E+00	0.000E+00
3.583E+00 -	3.749E+00	1	229	0.44	100.00	2.525E-03	3.940E+02
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.281E+02	4.085E+02

HISTOGRAM FOR VARIABLE 9 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 X
1.466E+01 XXX
2.151E+01 XXXX
3.157E+01 XXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXXXXX
2.151E+02 XXXX
3.157E+02 XXXX
4.635E+02 X
6.803E+02
9.985E+02
1.466E+03
2.151E+03
3.157E+03
4.635E+03
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	5.00000E+03
GEOMETRIC MEAN	=	7.55906E+01
GEOMETRIC DEVIATION	=	2.30335E+00
VARIANCE OF LOGS	=	1.31305E-01

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 10 (S-NI)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
7.500E-01	-	9.167E-01	2	2	0.87	0.87	6.463E+00	3.082E+00
9.167E-01	-	1.083E+00	14	16	6.11	6.99	1.452E+01	1.847E-02
1.083E+00	-	1.250E+00	23	39	10.04	17.03	2.608E+01	3.648E-01
1.250E+00	-	1.417E+00	59	98	25.76	42.79	3.749E+01	1.234E+01
1.417E+00	-	1.583E+00	35	133	15.28	58.08	4.310E+01	1.521E+00
1.583E+00	-	1.750E+00	53	186	23.14	81.22	3.963E+01	4.512E+00
1.750E+00	-	1.917E+00	23	209	10.04	91.27	2.915E+01	1.297E+00
1.917E+00	-	2.083E+00	11	220	4.80	96.07	1.715E+01	2.205E+00
2.083E+00	-	2.250E+00	4	224	1.75	97.82	8.070E+00	2.052E+00
2.250E+00	-	2.417E+00	2	226	0.87	98.69	3.037E+00	3.541E-01
2.417E+00	-	2.583E+00	1	227	0.44	99.13	9.140E-01	8.087E-03
2.583E+00	-	2.750E+00	0	227	0.00	99.13	2.200E-01	2.200E-01
2.750E+00	-	2.917E+00	0	227	0.00	99.13	4.233E-02	4.233E-02
2.917E+00	-	3.083E+00	0	227	0.00	99.13	0.000E+00	0.000E+00
3.083E+00	-	3.250E+00	0	227	0.00	99.13	0.000E+00	0.000E+00
3.250E+00	-	3.417E+00	1	228	0.44	99.56	0.000E+00	0.000E+00
3.417E+00	-	3.583E+00	1	229	0.44	100.00	7.400E-03	1.331E+02
	G		0	229	0.00	100.00		
	H		0	229				
	B		1	230				
TOTALS LESS H AND B			229				2.259E+02	1.612E+02

HISTOGRAM FOR VARIABLE 10 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 X
1.000E+01 XXXXXX
1.468E+01 XXXXXXXXXX
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXX
1.000E+02 XXXXX
1.468E+02 XX
2.154E+02 X
3.162E+02
4.642E+02
6.813E+02
1.000E+03
1.468E+03
2.154E+03
3.162E+03
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  7.00000E+00
MAXIMUM ANTILOG      =  3.00000E+03
GEOMETRIC MEAN       =  3.31680E+01
GEOMETRIC DEVIATION  =  2.23559E+00
VARIANCE OF LOGS     =  1.22076E-01
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 11 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	1	1	0.44	0.44	3.983E-01	9.088E-01
7.497E-01 -	9.163E-01	0	1	0.00	0.44	3.607E+00	3.607E+00
9.163E-01 -	1.083E+00	8	9	3.49	3.93	1.778E+01	5.382E+00
1.083E+00 -	1.250E+00	46	55	20.09	24.02	4.787E+01	7.335E-02
1.250E+00 -	1.416E+00	105	160	45.85	69.87	7.050E+01	1.688E+01
1.416E+00 -	1.583E+00	37	197	16.16	86.03	5.684E+01	6.925E+00
1.583E+00 -	1.750E+00	24	221	10.48	96.51	2.508E+01	4.617E-02
1.750E+00 -	1.916E+00	4	225	1.75	98.25	6.044E+00	6.913E-01
1.916E+00 -	2.083E+00	2	227	0.87	99.13	7.939E-01	1.832E+00
2.083E+00 -	2.250E+00	1	228	0.44	99.56	0.000E+00	0.000E+00
2.250E+00 -	2.416E+00	1	229	0.44	100.00	5.891E-02	1.503E+01
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	5.138E+01

HISTOGRAM FOR VARIABLE 11 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00
6.808E+00
9.992E+00 XXX
1.467E+01 XXXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXX
6.808E+01 XX
9.992E+01 X
1.467E+02
2.153E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 2.27374E+01
GEOMETRIC DEVIATION = 1.61848E+00
VARIANCE OF LOGS = 4.37263E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 12 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.083E+00 -	1.250E+00	4	4	1.75	1.75	1.060E+01	4.113E+00
1.250E+00 -	1.416E+00	20	24	8.73	10.48	1.736E+01	4.007E-01
1.416E+00 -	1.583E+00	37	61	16.16	26.64	2.481E+01	5.989E+00
1.583E+00 -	1.750E+00	60	121	26.20	52.84	3.094E+01	2.729E+01
1.750E+00 -	1.916E+00	33	154	14.41	67.25	3.368E+01	1.354E-02
1.916E+00 -	2.083E+00	30	184	13.10	80.35	3.199E+01	1.233E-01
2.083E+00 -	2.250E+00	9	193	3.93	84.28	2.651E+01	1.157E+01
2.250E+00 -	2.416E+00	13	206	5.68	89.96	1.918E+01	1.992E+00
2.416E+00 -	2.583E+00	3	209	1.31	91.27	1.211E+01	6.853E+00
2.583E+00 -	2.750E+00	6	215	2.62	93.89	6.672E+00	6.769E-02
2.750E+00 -	2.916E+00	5	220	2.18	96.07	3.208E+00	1.001E+00
2.916E+00 -	3.083E+00	4	224	1.75	97.82	1.346E+00	5.232E+00
3.083E+00 -	3.250E+00	0	224	0.00	97.82	4.929E-01	4.929E-01
3.250E+00 -	3.416E+00	3	227	1.31	99.13	1.575E-01	5.130E+01
3.416E+00 -	3.583E+00	2	229	0.87	100.00	5.738E-02	6.577E+01
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.191E+02	1.822E+02

HISTOGRAM FOR VARIABLE 12 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+01 XX
2.153E+01 XXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+01 XXXXXXXXXXXXXX
9.992E+01 XXXXXXXXXXXXX
1.467E+02 XXXX
2.153E+02 XXXXXX
3.160E+02 X
4.638E+02 XXX
6.808E+02 XX
9.992E+02 XX
1.467E+03
2.153E+03 X
3.160E+03 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	= 1.50000E+01	GEOMETRIC MEAN	= 7.13384E+01
MAXIMUM ANTILOG	= 3.00000E+03	GEOMETRIC DEVIATION	= 2.81265E+00
		VARIANCE OF LOGS	= 2.01706E-01

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 13 (S-MO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		188	188	82.10	82.10		
L		10	198	4.37	86.46		
T		0	198	0.00	86.46	2.095E+01	1.496E+03
5.830E-01 -	7.497E-01	15	213	6.55	93.01	1.171E+02	8.900E+01
7.497E-01 -	9.163E-01	6	219	2.62	95.63	8.364E+01	7.208E+01
9.163E-01 -	1.083E+00	6	225	2.62	98.25	7.256E+00	2.175E-01
1.083E+00 -	1.250E+00	1	226	0.44	98.69	0.000E+00	0.000E+00
1.250E+00 -	1.416E+00	2	228	0.87	99.56	0.000E+00	0.000E+00
1.416E+00 -	1.583E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.583E+00 -	1.750E+00	1	229	0.44	100.00	6.549E-02	1.333E+01
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	1.670E+03

HISTOGRAM FOR VARIABLE 13 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXX
6.808E+00 XXX
9.992E+00 XXX
1.467E+01
2.153E+01 X
3.160E+01
4.638E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+00
MAXIMUM ANTILOG      =  5.00000E+01
GEOMETRIC MEAN       =  7.44746E+00
GEOMETRIC DEVIATION  =  1.72895E+00
VARIANCE OF LOGS     =  5.65407E-02
```

Table 5. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 14 (AA-MO-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		10	10	7.58	7.58		
	T		0	10	0.00	7.58	4.053E+00	8.726E+00
-8.400E-02	-	8.267E-02	15	25	11.36	18.94	8.600E+00	4.762E+00
8.267E-02	-	2.493E-01	0	25	0.00	18.94	1.764E+01	1.764E+01
2.493E-01	-	4.160E-01	22	47	16.67	35.61	2.651E+01	7.683E-01
4.160E-01	-	5.827E-01	32	79	24.24	59.85	2.920E+01	2.685E-01
5.827E-01	-	7.493E-01	35	114	26.52	86.36	2.357E+01	5.547E+00
7.493E-01	-	9.160E-01	11	125	8.33	94.70	1.394E+01	6.191E-01
9.160E-01	-	1.083E+00	5	130	3.79	98.48	6.039E+00	1.788E-01
1.083E+00	-	1.249E+00	0	130	0.00	98.48	1.917E+00	1.917E+00
1.249E+00	-	1.416E+00	2	132	1.52	100.00	5.317E-01	4.054E+00
	G		0	132	0.00	100.00		
	H		0	132				
	B		98	230				
TOTALS LESS H AND B			132				1.320E+02	4.448E+01

HISTOGRAM FOR VARIABLE 14 (AA-MO-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-01 XXXXXXXXXXX
 1.466E+00
 2.151E+00 XXXXXXXXXXXXXXXXX
 3.157E+00 XXXXXXXXXXXXXXXXXXXXXXXX
 4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.802E+00 XXXXXXXX
 9.985E+00 XXXX
 1.466E+01
 2.151E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+00
MAXIMUM ANTILOG	=	2.40000E+01
GEOMETRIC MEAN	=	3.14456E+00
GEOMETRIC DEVIATION	=	1.87326E+00
VARIANCE OF LOGS	=	7.43096E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 15 (CM-W-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		22	22	10.84	10.84		
	L		133	155	65.52	76.35		
	T		0	155	0.00	76.35	1.542E+01	1.264E+03
-8.400E-02	-	8.267E-02	12	167	5.91	82.27	3.172E+01	1.226E+01
8.267E-02	-	2.493E-01	0	167	0.00	82.27	5.191E+01	5.191E+01
2.493E-01	-	4.160E-01	19	186	9.36	91.63	5.298E+01	2.179E+01
4.160E-01	-	5.827E-01	2	188	0.99	92.61	3.372E+01	2.984E+01
5.827E-01	-	7.493E-01	8	196	3.94	96.55	1.338E+01	2.166E+00
7.493E-01	-	9.160E-01	0	196	0.00	96.55	3.309E+00	3.309E+00
9.160E-01	-	1.083E+00	4	200	1.97	98.52	5.089E-01	2.395E+01
1.083E+00	-	1.249E+00	0	200	0.00	98.52	4.865E-02	4.865E-02
1.249E+00	-	1.416E+00	3	203	1.48	100.00	2.995E-03	2.999E+03
	G		0	203	0.00	100.00		
	H		0	203				
	B		27	230				
TOTALS LESS H AND B			203				2.030E+02	4.408E+03

HISTOGRAM FOR VARIABLE 15 (CM-W-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E-01 XXXXXX
1.466E+00
2.151E+00 XXXXXXXXX
3.157E+00 X
4.634E+00 XXXX
6.802E+00
9.985E+00 XX
1.466E+01
2.151E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+00
MAXIMUM ANTILOG      =  2.00000E+01
GEOMETRIC MEAN       =  2.63136E+00
GEOMETRIC DEVIATION  =  2.36372E+00
VARIANCE OF LOGS     =  1.42321E-01
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 16 (S-BI)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		N	219	219	95.63	95.63		
		L	5	224	2.18	97.82		
		T	0	224	0.00	97.82	7.245E-01	6.881E+04
9.160E-01	-	1.083E+00	4	228	1.75	99.56	2.271E+02	2.191E+02
1.083E+00	-	1.249E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.249E+00	-	1.416E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.416E+00	-	1.583E+00	1	229	0.44	100.00	1.213E+00	3.736E-02
		G	0	229	0.00	100.00		
		H	0	229				
		B	1	230				
TOTALS LESS H AND B			229				2.290E+02	6.902E+04

HISTOGRAM FOR VARIABLE 16 (S-BI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XX
1.466E+01
2.151E+01
3.157E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  3.00000E+01
GEOMETRIC MEAN       =  1.24573E+01
GEOMETRIC DEVIATION  =  1.63446E+00
VARIANCE OF LOGS     =  4.55289E-02
```

FREQUENCY TABLE FOR VARIABLE 17 (AA-AU-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	154	154	74.40	74.40		
	L	7	161	3.38	77.78		
	T	0	161	0.00	77.78		
-2.750E+00	-2.583E+00	1	162	0.48	78.26	6.150E-02	4.212E+05
-2.583E+00	-2.417E+00	1	163	0.48	78.74	1.627E-01	4.309E+00
-2.417E+00	-2.250E+00	1	164	0.48	79.23	4.964E-01	5.109E-01
-2.250E+00	-2.083E+00	3	167	1.45	80.68	1.325E+00	7.965E-02
-2.083E+00	-1.917E+00	4	171	1.93	82.61	5.093E+00	2.796E-03
-1.917E+00	-1.750E+00	0	171	0.00	82.61	6.316E+00	8.495E-01
-1.750E+00	-1.583E+00	1	172	0.48	83.09	1.128E+01	1.128E+01
-1.583E+00	-1.417E+00	0	172	0.00	83.09	1.763E+01	1.569E+01
-1.417E+00	-1.250E+00	4	176	1.93	85.02	2.410E+01	2.410E+01
-1.250E+00	-1.083E+00	0	176	0.00	85.02	2.882E+01	2.138E+01
-1.083E+00	-9.167E-01	11	187	5.31	90.34	3.015E+01	3.015E+01
-9.167E-01	-7.500E-01	3	190	1.45	91.79	2.759E+01	9.977E+00
-7.500E-01	-5.833E-01	5	195	2.42	94.20	2.209E+01	1.649E+01
-5.833E-01	-4.167E-01	6	201	2.90	97.10	1.547E+01	7.083E+00
-4.167E-01	-2.500E-01	3	204	1.45	98.55	9.474E+00	1.274E+00
-2.500E-01	-8.333E-02	1	205	0.48	99.03	5.077E+00	8.496E-01
-8.333E-02	8.334E-02	0	205	0.00	99.03	2.380E+00	7.999E-01
8.334E-02	2.500E-01	1	206	0.48	99.52	9.757E-01	9.757E-01
2.500E-01	4.167E-01	0	206	0.00	99.52	3.499E-01	1.208E+00
4.167E-01	5.833E-01	0	206	0.00	99.52	1.098E-01	1.098E-01
5.833E-01	7.500E-01	0	206	0.00	99.52	3.013E-02	3.013E-02
7.500E-01	9.167E-01	0	206	0.00	99.52	0.000E+00	0.000E+00
9.167E-01	1.083E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.083E+00	1.250E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.250E+00	1.417E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.417E+00	1.583E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.583E+00	1.750E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.750E+00	1.917E+00	0	206	0.00	99.52	0.000E+00	0.000E+00
1.917E+00	2.083E+00	1	207	0.48	100.00	0.000E+00	0.000E+00
	G	0	207	0.00	100.00	9.082E-03	1.081E+02
	H	0	207				
	B	23	230				
TOTALS LESS H AND B		207				2.070E+02	4.214E+05

HISTOGRAM FOR VARIABLE 17 (AA-AU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E-03
3.162E-03
4.642E-03
6.813E-03 X
1.000E-02 XX
1.468E-02
2.154E-02
3.162E-02
4.642E-02 XX
6.813E-02
1.000E-01 XXXXX
1.468E-01 X
2.154E-01 XX
3.162E-01 XXX
4.642E-01 X
6.813E-01
1.000E+00
1.468E+00
2.154E+00
3.162E+00
4.642E+00
6.813E+00
1.000E+01
1.468E+01
2.154E+01
3.162E+01
4.642E+01
6.813E+01
1.000E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E-03
MAXIMUM ANTILOG	=	9.50000E+01
GEOMETRIC MEAN	=	8.97149E-02
GEOMETRIC DEVIATION	=	6.63403E+00
VARIANCE OF LOGS	=	6.75318E-01

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 18 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		2	2	0.87	0.87		
T		0	2	0.00	0.87	1.063E+01	7.010E+00
9.160E-01 -	1.083E+00	15	17	6.55	7.42	1.602E+01	6.527E-02
1.083E+00 -	1.249E+00	33	50	14.41	21.83	2.833E+01	7.683E-01
1.249E+00 -	1.416E+00	63	113	27.51	49.34	3.970E+01	1.368E+01
1.416E+00 -	1.583E+00	36	149	15.72	65.07	4.407E+01	1.477E+00
1.583E+00 -	1.749E+00	35	184	15.28	80.35	3.876E+01	3.645E-01
1.749E+00 -	1.916E+00	23	207	10.04	90.39	2.701E+01	5.952E-01
1.916E+00 -	2.083E+00	11	218	4.80	95.20	1.491E+01	1.026E+00
2.083E+00 -	2.249E+00	2	220	0.87	96.07	6.522E+00	3.136E+00
2.249E+00 -	2.416E+00	4	224	1.75	97.82	2.260E+00	1.340E+00
2.416E+00 -	2.583E+00	3	227	1.31	99.13	6.202E-01	9.131E+00
2.583E+00 -	2.749E+00	1	228	0.44	99.56	1.348E-01	5.553E+00
2.749E+00 -	2.916E+00	1	229	0.44	100.00	2.674E-02	3.542E+01
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	7.956E+01

HISTOGRAM FOR VARIABLE 18 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXXXX
1.466E+01 XXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXX
9.985E+01 XXXXX
1.466E+02 X
2.151E+02 XX
3.157E+02 X
4.635E+02
6.803E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  7.00000E+02
GEOMETRIC MEAN       =  3.12672E+01
GEOMETRIC DEVIATION  =  2.18976E+00
VARIANCE OF LOGS     =  1.15870E-01
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 19 (S-AG)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	185	185	80.79	80.79		
	L	12	197	5.24	86.03		
	T	0	197	0.00	86.03	5.035E+01	4.272E+02
-4.170E-01	-2.503E-01	3	200	1.31	87.34	5.109E+01	4.526E+01
-2.503E-01	-8.367E-02	1	201	0.44	87.77	5.575E+01	5.377E+01
-8.367E-02	8.300E-02	4	205	1.75	89.52	4.148E+01	3.387E+01
8.300E-02	2.497E-01	5	210	2.18	91.70	2.104E+01	1.223E+01
2.497E-01	4.163E-01	8	218	3.49	95.20	7.274E+00	7.246E-02
4.163E-01	5.830E-01	4	222	1.75	96.94	1.713E+00	3.054E+00
5.830E-01	7.497E-01	2	224	0.87	97.82	2.746E-01	1.084E+01
7.497E-01	9.163E-01	1	225	0.44	98.25	0.000E+00	0.000E+00
9.163E-01	1.083E+00	3	228	1.31	99.56	0.000E+00	0.000E+00
1.083E+00	1.250E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.250E+00	1.416E+00	1	229	0.44	100.00	3.228E-02	2.901E+01
	G	0	229	0.00	100.00		
	H	0	229				
	B	1	230				
TOTALS LESS H AND B		229				2.290E+02	6.153E+02

HISTOGRAM FOR VARIABLE 19 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 X
6.808E-01
9.992E-01 XX
1.467E+00 XX
2.153E+00 XXX
3.160E+00 XX
4.638E+00 X
6.808E+00
9.992E+00 X
1.467E+01
2.153E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E-01
MAXIMUM ANTILOG      =  2.00000E+01
GEOMETRIC MEAN       =  2.15701E+00
GEOMETRIC DEVIATION  =  2.49877E+00
VARIANCE OF LOGS     =  1.58187E-01
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 20 (AA-ZN-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
1.250E+00	-	1.417E+00	1	1	0.47	0.47	1.458E+00	1.437E-01
1.417E+00	-	1.583E+00	3	4	1.41	1.88	7.649E+00	2.826E+00
1.583E+00	-	1.750E+00	21	25	9.86	11.74	2.462E+01	5.335E-01
1.750E+00	-	1.917E+00	64	89	30.05	41.78	4.868E+01	4.820E+00
1.917E+00	-	2.083E+00	67	156	31.46	73.24	5.915E+01	1.042E+00
2.083E+00	-	2.250E+00	29	185	13.62	86.85	4.417E+01	5.212E+00
2.250E+00	-	2.417E+00	19	204	8.92	95.77	2.027E+01	7.982E-02
2.417E+00	-	2.583E+00	4	208	1.88	97.65	5.712E+00	5.133E-01
2.583E+00	-	2.750E+00	3	211	1.41	99.06	9.871E-01	4.104E+00
2.750E+00	-	2.917E+00	2	213	0.94	100.00	1.115E-01	3.198E+01
	G		0	213	0.00	100.00		
	H		0	213				
	B		17	230				
TOTALS LESS H AND B			213				2.128E+02	5.126E+01

HISTOGRAM FOR VARIABLE 20 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01
3.162E+01 X
4.642E+01 XXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXX
2.154E+02 XXXXXXXXX
3.162E+02 XX
4.642E+02 X
6.813E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  7.60000E+02
GEOMETRIC MEAN       =  9.62407E+01
GEOMETRIC DEVIATION  =  1.71358E+00
VARIANCE OF LOGS     =  5.47112E-02
```

FREQUENCY TABLE FOR VARIABLE 21 (S-AS)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		201	201	87.77	87.77		
L		5	206	2.18	89.96		
T		0	206	0.00	89.96	7.118E+01	2.553E+02
2.250E+00 -	2.417E+00	8	214	3.49	93.45	8.001E+01	6.481E+01
2.417E+00 -	2.583E+00	5	219	2.18	95.63	5.640E+01	4.684E+01
2.583E+00 -	2.750E+00	1	220	0.44	96.07	1.843E+01	1.648E+01
2.750E+00 -	2.917E+00	2	222	0.87	96.94	2.778E+00	2.180E-01
2.917E+00 -	3.083E+00	2	224	0.87	97.82	1.921E-01	1.702E+01
3.083E+00 -	3.250E+00	3	227	1.31	99.13	0.000E+00	0.000E+00
3.250E+00 -	3.417E+00	1	228	0.44	99.56	0.000E+00	0.000E+00
3.417E+00 -	3.583E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
3.583E+00 -	3.750E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
3.750E+00 -	3.917E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
3.917E+00 -	4.083E+00	1	229	0.44	100.00	6.139E-03	1.609E+02
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	5.616E+02

HISTOGRAM FOR VARIABLE 21 (S-AS)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+02 XXX
3.162E+02 XX
4.642E+02
6.813E+02 X
1.000E+03 X
1.468E+03 X
2.154E+03
3.162E+03
4.642E+03
6.813E+03
1.000E+04
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+02
MAXIMUM ANTILOG      =  1.00000E+04
GEOMETRIC MEAN       =  4.96807E+02
GEOMETRIC DEVIATION  =  2.82487E+00
VARIANCE OF LOGS     =  2.03399E-01
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 22 (S-SB)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		226	226	98.69	98.69		
	L		1	227	0.44	99.13		
	T		0	227	0.00	99.13	0.000E+00	0.000E+00
1.916E+00	-	2.083E+00	1	228	0.44	99.56	0.000E+00	0.000E+00
2.083E+00	-	2.249E+00	1	229	0.44	100.00	2.290E+02	2.270E+02
	G		0	229	0.00	100.00		
	H		0	229				
	B		1	230				
TOTALS LESS H AND B			229				2.290E+02	2.270E+02

HISTOGRAM FOR VARIABLE 22 (S-SB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E+01
1.466E+02

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 1.22474E+02
GEOMETRIC DEVIATION = 1.33203E+00
VARIANCE OF LOGS = 1.55040E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 23 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		1	1	0.44	0.44		
T		0	1	0.00	0.44	1.414E+00	1.211E-01
9.160E-01 -	1.083E+00	3	4	1.31	1.75	3.412E+00	4.969E-02
1.083E+00 -	1.249E+00	6	10	2.62	4.37	8.715E+00	8.458E-01
1.249E+00 -	1.416E+00	27	37	11.79	16.16	1.792E+01	4.602E+00
1.416E+00 -	1.583E+00	27	64	11.79	27.95	2.966E+01	2.387E-01
1.583E+00 -	1.749E+00	46	110	20.09	48.03	3.952E+01	1.061E+00
1.749E+00 -	1.916E+00	17	127	7.42	55.46	4.240E+01	1.522E+01
1.916E+00 -	2.083E+00	55	182	24.02	79.48	3.662E+01	9.227E+00
2.083E+00 -	2.249E+00	15	197	6.55	86.03	2.546E+01	4.298E+00
2.249E+00 -	2.416E+00	27	224	11.79	97.82	1.425E+01	1.140E+01
2.416E+00 -	2.583E+00	4	228	1.75	99.56	6.421E+00	9.130E-01
2.583E+00 -	2.749E+00	1	229	0.44	100.00	3.204E+00	1.516E+00
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	4.949E+01

HISTOGRAM FOR VARIABLE 23 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 X
1.466E+01 XXX
2.151E+01 XXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXXXXXXXX
1.466E+02 XXXXXXX
2.151E+02 XXXXXXXXXXXX
3.157E+02 XX
4.635E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 5.00000E+02
GEOMETRIC MEAN = 6.40993E+01
GEOMETRIC DEVIATION = 2.24586E+00
VARIANCE OF LOGS = 1.23470E-01

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 24 (S-BE)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		31	31	13.54	13.54		
	L		54	85	23.58	37.12		
	T		0	85	0.00	37.12	4.244E+01	4.267E+01
-8.400E-02	-	8.267E-02	115	200	50.22	87.34	1.077E+02	4.936E-01
8.267E-02	-	2.493E-01	24	224	10.48	97.82	6.857E+01	2.897E+01
2.493E-01	-	4.160E-01	4	228	1.75	99.56	9.962E+00	3.568E+00
4.160E-01	-	5.827E-01	0	228	0.00	99.56	0.000E+00	0.000E+00
5.827E-01	-	7.493E-01	0	228	0.00	99.56	0.000E+00	0.000E+00
7.493E-01	-	9.160E-01	0	228	0.00	99.56	0.000E+00	0.000E+00
9.160E-01	-	1.083E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.083E+00	-	1.249E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.249E+00	-	1.416E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.416E+00	-	1.583E+00	0	228	0.00	99.56	0.000E+00	0.000E+00
1.583E+00	-	1.749E+00	1	229	0.44	100.00	3.168E-01	1.473E+00
	G		0	229	0.00	100.00		
	H		0	229				
	B		1	230				
TOTALS LESS H AND B			229				2.290E+02	7.718E+01

HISTOGRAM FOR VARIABLE 24 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+00 XXXXXXXXXX
2.151E+00 XX
3.157E+00
4.634E+00
6.802E+00
9.985E+00
1.466E+01
2.151E+01
3.157E+01
4.635E+01
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+00
MAXIMUM ANTILOG      =  5.00000E+01
GEOMETRIC MEAN       =  1.12075E+00
GEOMETRIC DEVIATION  =  1.44394E+00
VARIANCE OF LOGS     =  2.54560E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SR)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		6	6	2.62	2.62		
	L		3	9	1.31	3.93		
	T		0	9	0.00	3.93	5.123E+00	2.934E+00
1.916E+00	-	2.083E+00	24	33	10.48	14.41	2.667E+01	2.675E-01
2.083E+00	-	2.249E+00	63	96	27.51	41.92	6.779E+01	3.380E-01
2.249E+00	-	2.416E+00	79	175	34.50	76.42	7.804E+01	1.191E-02
2.416E+00	-	2.583E+00	40	215	17.47	93.89	4.072E+01	1.264E-02
2.583E+00	-	2.749E+00	13	228	5.68	99.56	9.600E+00	1.204E+00
2.749E+00	-	2.916E+00	1	229	0.44	100.00	1.066E+00	4.068E-03
	G		0	229	0.00	100.00		
	H		0	229				
	B		1	230				
TOTALS LESS H AND B			229				2.290E+02	4.772E+00

HISTOGRAM FOR VARIABLE 25 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E+01 XXXXXXXXXX
 1.466E+02 XXXXXXXXXXXXXXXXXXXXXXXXXX
 2.151E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.157E+02 XXXXXXXXXXXXXXXXX
 4.634E+02 XXXXXX
 6.802E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+02
MAXIMUM ANTILOG	=	7.00000E+02
GEOMETRIC MEAN	=	1.95171E+02
GEOMETRIC DEVIATION	=	1.49722E+00
VARIANCE OF LOGS	=	3.07254E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 26 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		2	2	0.87	0.87		
L		0	2	0.00	0.87		
T		0	2	0.00	0.87	2.701E-01	1.108E+01
1.916E+00 -	2.083E+00	1	3	0.44	1.31	2.865E+00	1.214E+00
2.083E+00 -	2.249E+00	5	8	2.18	3.49	1.636E+01	7.891E+00
2.249E+00 -	2.416E+00	29	37	12.66	16.16	4.824E+01	7.676E+00
2.416E+00 -	2.583E+00	110	147	48.03	64.19	7.361E+01	1.799E+01
2.583E+00 -	2.749E+00	73	220	31.88	96.07	5.820E+01	3.764E+00
2.749E+00 -	2.916E+00	6	226	2.62	98.69	2.383E+01	1.334E+01
2.916E+00 -	3.083E+00	3	229	1.31	100.00	5.619E+00	1.221E+00
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	6.417E+01

HISTOGRAM FOR VARIABLE 26 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01
1.466E+02 XX
2.151E+02 XXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXX
9.985E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+02
MAXIMUM ANTILOG      =  1.00000E+03
GEOMETRIC MEAN       =  3.41879E+02
GEOMETRIC DEVIATION  =  1.45865E+00
VARIANCE OF LOGS     =  2.68796E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 27 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		110	110	48.03	48.03		
L		0	110	0.00	48.03		
T		0	110	0.00	48.03	3.618E+01	1.506E+02
1.250E+00 -	1.417E+00	30	140	13.10	61.14	6.384E+01	1.794E+01
1.417E+00 -	1.583E+00	14	154	6.11	67.25	7.245E+01	4.716E+01
1.583E+00 -	1.750E+00	70	224	30.57	97.82	4.204E+01	1.859E+01
1.750E+00 -	1.917E+00	2	226	0.87	98.69	1.246E+01	8.779E+00
1.917E+00 -	2.083E+00	2	228	0.87	99.56	1.879E+00	7.834E-03
2.083E+00 -	2.250E+00	1	229	0.44	100.00	1.493E-01	4.848E+00
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	2.479E+02

HISTOGRAM FOR VARIABLE 27 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXXXXXXXXXX
3.162E+01 XXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 X
1.000E+02 X
1.468E+02
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  1.50000E+02
GEOMETRIC MEAN       =  3.83773E+01
GEOMETRIC DEVIATION  =  1.55362E+00
VARIANCE OF LOGS     =  3.66126E-02
```

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 28 (S-Y)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		3	3	1.31	1.31		
	L		0	3	0.00	1.31		
	T		0	3	0.00	1.31	2.801E-01	2.641E+01
9.160E-01	-	1.083E+00	5	8	2.18	3.49	5.265E+00	1.332E-02
1.083E+00	-	1.249E+00	16	24	6.99	10.48	3.556E+01	1.076E+01
1.249E+00	-	1.416E+00	83	107	36.24	46.72	8.605E+01	1.083E-01
1.416E+00	-	1.583E+00	107	214	46.72	93.45	7.528E+01	1.336E+01
1.583E+00	-	1.749E+00	12	226	5.24	98.69	2.377E+01	5.831E+00
1.749E+00	-	1.916E+00	0	226	0.00	98.69	2.680E+00	2.680E+00
1.916E+00	-	2.083E+00	3	229	1.31	100.00	1.077E-01	7.770E+01
	G		0	229	0.00	100.00		
	H		0	229				
	B		1	230				
TOTALS LESS H AND B			229				2.290E+02	1.369E+02

HISTOGRAM FOR VARIABLE 28 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XX
1.466E+01 XXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXX
6.802E+01
9.985E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 2.50786E+01
GEOMETRIC DEVIATION = 1.41934E+00
VARIANCE OF LOGS = 2.31301E-02

Table 6. Frequency tables and histograms of analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 29 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	2	2	0.87	0.87	1.832E-02	2.143E+02
1.083E+00 -	1.249E+00	0	2	0.00	0.87	1.540E-01	1.540E-01
1.249E+00 -	1.416E+00	1	3	0.44	1.31	9.836E-01	2.727E-04
1.416E+00 -	1.583E+00	3	6	1.31	2.62	4.419E+00	4.556E-01
1.583E+00 -	1.749E+00	9	15	3.93	6.55	1.397E+01	1.766E+00
1.749E+00 -	1.916E+00	20	35	8.73	15.28	3.107E+01	3.943E+00
1.916E+00 -	2.083E+00	70	105	30.57	45.85	4.865E+01	9.366E+00
2.083E+00 -	2.249E+00	50	155	21.83	67.69	5.365E+01	2.482E-01
2.249E+00 -	2.416E+00	46	201	20.09	87.77	4.166E+01	4.527E-01
2.416E+00 -	2.583E+00	15	216	6.55	94.32	2.277E+01	2.654E+00
2.583E+00 -	2.749E+00	10	226	4.37	98.69	8.765E+00	1.742E-01
2.749E+00 -	2.916E+00	1	227	0.44	99.13	2.373E+00	7.948E-01
2.916E+00 -	3.083E+00	2	229	0.87	100.00	5.188E-01	4.230E+00
G		0	229	0.00	100.00		
H		0	229				
B		1	230				
TOTALS LESS H AND B		229				2.290E+02	2.385E+02

HISTOGRAM FOR VARIABLE 29 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 X
1.466E+01
2.151E+01
3.157E+01 X
4.634E+01 XXXX
6.802E+01 XXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXXXXXXXXXX
2.151E+02 XXXXXXXXXXXXXXXXXXX
3.157E+02 XXXXXXX
4.635E+02 XXXX
6.803E+02
9.985E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  1.00000E+03
GEOMETRIC MEAN       =  1.34623E+02
GEOMETRIC DEVIATION  =  1.89323E+00
VARIANCE OF LOGS     =  7.68418E-02
```

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

	COLUMN		VERSUS	COLUMN		CORRELATION COEFFICIENT	NO. OF PAIRS
1	(S-MG%	)	2	(S-CA%	)	0.5427	229
1	(S-MG%	)	3	(S-FE%	)	0.4593	229
1	(S-MG%	)	4	(S-TI%	)	0.3531	228
1	(S-MG%	)	5	(S-MN	)	0.3593	229
1	(S-MG%	)	6	(S-V	)	0.4127	229
1	(S-MG%	)	7	(S-CR	)	0.6548	229
1	(S-MG%	)	8	(S-NI	)	0.5746	229
1	(S-MG%	)	9	(S-CO	)	0.4000	229
1	(S-MG%	)	10	(S-CU	)	0.0476	229
1	(S-MG%	)	11	(S-MO	)	0.2840	31
1	(S-MG%	)	12	(AA-MO-P	)	-0.0692	121
1	(S-MG%	)	13	(CM-W-P	)	-0.4464	48
1	(S-MG%	)	14	(S-BI	)	0.5400	5
1	(S-MG%	)	15	(AA-AU-P	)	-0.3579	46
1	(S-MG%	)	16	(S-PB	)	-0.1796	227
1	(S-MG%	)	17	(S-AG	)	0.2255	32
1	(S-MG%	)	18	(AA-ZN-P	)	-0.0970	212
1	(S-MG%	)	19	(S-AS	)	-0.4505	23
1	(S-MG%	)	20	(S-SB	)	-1.0000	2
1	(S-MG%	)	21	(S-B	)	0.1626	228
1	(S-MG%	)	22	(S-BE	)	-0.1542	144
1	(S-MG%	)	23	(S-SR	)	0.4658	220
1	(S-MG%	)	24	(S-BA	)	0.3329	227
1	(S-MG%	)	25	(S-LA	)	0.0813	119
1	(S-MG%	)	26	(S-Y	)	0.2486	226
1	(S-MG%	)	27	(S-ZR	)	-0.0283	229
2	(S-CA%	)	3	(S-FE%	)	0.2426	229
2	(S-CA%	)	4	(S-TI%	)	0.6752	228
2	(S-CA%	)	5	(S-MN	)	0.3649	229
2	(S-CA%	)	6	(S-V	)	0.6494	229
2	(S-CA%	)	7	(S-CR	)	0.2014	229
2	(S-CA%	)	8	(S-NI	)	-0.0192	229
2	(S-CA%	)	9	(S-CO	)	-0.0644	229
2	(S-CA%	)	10	(S-CU	)	-0.2127	229
2	(S-CA%	)	11	(S-MO	)	0.1587	31
2	(S-CA%	)	12	(AA-MO-P	)	-0.2250	121
2	(S-CA%	)	13	(CM-W-P	)	-0.5620	48
2	(S-CA%	)	14	(S-BI	)	0.8510	5
2	(S-CA%	)	15	(AA-AU-P	)	-0.4148	46
2	(S-CA%	)	16	(S-PB	)	-0.1259	227
2	(S-CA%	)	17	(S-AG	)	0.3421	32
2	(S-CA%	)	18	(AA-ZN-P	)	-0.2166	212
2	(S-CA%	)	19	(S-AS	)	-0.0924	23
2	(S-CA%	)	20	(S-SB	)	-1.0000	2
2	(S-CA%	)	21	(S-B	)	0.1962	228
2	(S-CA%	)	22	(S-BE	)	-0.0407	144
2	(S-CA%	)	23	(S-SR	)	0.5971	220
2	(S-CA%	)	24	(S-BA	)	0.2908	227
2	(S-CA%	)	25	(S-LA	)	0.3233	119
2	(S-CA%	)	26	(S-Y	)	0.3594	226

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

	COLUMN		VERSUS	COLUMN		CORRELATION COEFFICIENT	NO. OF PAIRS
2	(S-CA%	)	27	(S-ZR	)	0.3083	229
3	(S-FE%	)	4	(S-TI%	)	0.4320	228
3	(S-FE%	)	5	(S-MN	)	0.2502	229
3	(S-FE%	)	6	(S-V	)	0.5329	229
3	(S-FE%	)	7	(S-CR	)	0.4309	229
3	(S-FE%	)	8	(S-NI	)	0.3391	229
3	(S-FE%	)	9	(S-CO	)	0.3828	229
3	(S-FE%	)	10	(S-CU	)	0.2069	229
3	(S-FE%	)	11	(S-MO	)	0.2242	31
3	(S-FE%	)	12	(AA-MO-P	)	-0.0096	121
3	(S-FE%	)	13	(CM-W-P	)	0.1162	48
3	(S-FE%	)	14	(S-BI	)	-0.5557	5
3	(S-FE%	)	15	(AA-AU-P	)	-0.1654	46
3	(S-FE%	)	16	(S-PB	)	0.0151	227
3	(S-FE%	)	17	(S-AG	)	0.1835	32
3	(S-FE%	)	18	(AA-ZN-P	)	0.1526	212
3	(S-FE%	)	19	(S-AS	)	0.5976	23
3	(S-FE%	)	20	(S-SB	)	-1.0000	2
3	(S-FE%	)	21	(S-B	)	0.2030	228
3	(S-FE%	)	22	(S-BE	)	0.1984	144
3	(S-FE%	)	23	(S-SR	)	0.2361	220
3	(S-FE%	)	24	(S-BA	)	0.3065	227
3	(S-FE%	)	25	(S-LA	)	0.0472	119
3	(S-FE%	)	26	(S-Y	)	0.3976	226
3	(S-FE%	)	27	(S-ZR	)	0.1430	229
4	(S-TI%	)	5	(S-MN	)	0.4282	228
4	(S-TI%	)	6	(S-V	)	0.7815	228
4	(S-TI%	)	7	(S-CR	)	0.2787	228
4	(S-TI%	)	8	(S-NI	)	0.0826	228
4	(S-TI%	)	9	(S-CO	)	0.0788	228
4	(S-TI%	)	10	(S-CU	)	-0.0947	228
4	(S-TI%	)	11	(S-MO	)	0.0463	31
4	(S-TI%	)	12	(AA-MO-P	)	-0.1344	121
4	(S-TI%	)	13	(CM-W-P	)	-0.3112	48
4	(S-TI%	)	14	(S-BI	)	0.8490	5
4	(S-TI%	)	15	(AA-AU-P	)	-0.4746	46
4	(S-TI%	)	16	(S-PB	)	-0.0819	226
4	(S-TI%	)	17	(S-AG	)	0.4901	32
4	(S-TI%	)	18	(AA-ZN-P	)	0.0255	211
4	(S-TI%	)	19	(S-AS	)	-0.5328	23
4	(S-TI%	)	20	(S-SB	)	********	2
4	(S-TI%	)	21	(S-B	)	0.2551	227
4	(S-TI%	)	22	(S-BE	)	-0.2826	143
4	(S-TI%	)	23	(S-SR	)	0.5044	219
4	(S-TI%	)	24	(S-BA	)	0.4147	226
4	(S-TI%	)	25	(S-LA	)	0.1081	119
4	(S-TI%	)	26	(S-Y	)	0.3622	225
4	(S-TI%	)	27	(S-ZR	)	0.5256	228
5	(S-MN	)	6	(S-V	)	0.5435	229
5	(S-MN	)	7	(S-CR	)	0.3369	229

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-MN)	8	(S-NI)	0.2685	229
5 (S-MN)	9	(S-CO)	0.3741	229
5 (S-MN)	10	(S-CU)	0.2040	229
5 (S-MN)	11	(S-MO)	0.0156	31
5 (S-MN)	12	(AA-MO-P)	0.1058	121
5 (S-MN)	13	(CM-W-P)	-0.5867	48
5 (S-MN)	14	(S-BI)	0.6432	5
5 (S-MN)	15	(AA-AU-P)	0.0115	46
5 (S-MN)	16	(S-PB)	0.2835	227
5 (S-MN)	17	(S-AG)	0.3746	32
5 (S-MN)	18	(AA-ZN-P)	0.1504	212
5 (S-MN)	19	(S-AS)	-0.1195	23
5 (S-MN)	20	(S-SB)	-1.0000	2
5 (S-MN)	21	(S-B)	0.4197	228
5 (S-MN)	22	(S-BE)	-0.2502	144
5 (S-MN)	23	(S-SR)	0.3747	220
5 (S-MN)	24	(S-BA)	0.3885	227
5 (S-MN)	25	(S-LA)	0.4097	119
5 (S-MN)	26	(S-Y)	0.3604	226
5 (S-MN)	27	(S-ZR)	0.1757	229
6 (S-V)	7	(S-CR)	0.3962	229
6 (S-V)	8	(S-NI)	0.1792	229
6 (S-V)	9	(S-CO)	0.2248	229
6 (S-V)	10	(S-CU)	-0.0243	229
6 (S-V)	11	(S-MO)	0.1421	31
6 (S-V)	12	(AA-MO-P)	-0.2231	121
6 (S-V)	13	(CM-W-P)	-0.3913	48
6 (S-V)	14	(S-BI)	0.7197	5
6 (S-V)	15	(AA-AU-P)	-0.3648	46
6 (S-V)	16	(S-PB)	-0.0347	227
6 (S-V)	17	(S-AG)	0.5085	32
6 (S-V)	18	(AA-ZN-P)	-0.0101	212
6 (S-V)	19	(S-AS)	-0.3399	23
6 (S-V)	20	(S-SB)	-1.0000	2
6 (S-V)	21	(S-B)	0.3413	228
6 (S-V)	22	(S-BE)	-0.2050	144
6 (S-V)	23	(S-SR)	0.4882	220
6 (S-V)	24	(S-BA)	0.3545	227
6 (S-V)	25	(S-LA)	0.3387	119
6 (S-V)	26	(S-Y)	0.4299	226
6 (S-V)	27	(S-ZR)	0.4427	229
7 (S-CR)	8	(S-NI)	0.8613	229
7 (S-CR)	9	(S-CO)	0.5435	229
7 (S-CR)	10	(S-CU)	0.1051	229
7 (S-CR)	11	(S-MO)	0.3498	31
7 (S-CR)	12	(AA-MO-P)	0.0339	121
7 (S-CR)	13	(CM-W-P)	-0.2431	48
7 (S-CR)	14	(S-BI)	-0.0017	5
7 (S-CR)	15	(AA-AU-P)	-0.3494	46
7 (S-CR)	16	(S-PB)	-0.2114	227

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
7 (S-CR)	17	(S-AG)	0.3019	32
7 (S-CR)	18	(AA-ZN-P)	0.0297	212
7 (S-CR)	19	(S-AS)	-0.2971	23
7 (S-CR)	20	(S-SB)	-1.0000	2
7 (S-CR)	21	(S-B)	0.1735	228
7 (S-CR)	22	(S-BE)	-0.1442	144
7 (S-CR)	23	(S-SR)	0.4408	220
7 (S-CR)	24	(S-BA)	0.3216	227
7 (S-CR)	25	(S-LA)	-0.1584	119
7 (S-CR)	26	(S-Y)	0.1835	226
7 (S-CR)	27	(S-ZR)	-0.0619	229
8 (S-NI)	9	(S-CO)	0.6625	229
8 (S-NI)	10	(S-CU)	0.2021	229
8 (S-NI)	11	(S-MO)	0.2797	31
8 (S-NI)	12	(AA-MO-P)	0.0808	121
8 (S-NI)	13	(CM-W-P)	-0.0148	48
8 (S-NI)	14	(S-BI)	-0.1558	5
8 (S-NI)	15	(AA-AU-P)	-0.1124	46
8 (S-NI)	16	(S-PB)	-0.1343	227
8 (S-NI)	17	(S-AG)	0.1517	32
8 (S-NI)	18	(AA-ZN-P)	0.1442	212
8 (S-NI)	19	(S-AS)	-0.1405	23
8 (S-NI)	20	(S-SB)	-1.0000	2
8 (S-NI)	21	(S-B)	0.1199	228
8 (S-NI)	22	(S-BE)	-0.0957	144
8 (S-NI)	23	(S-SR)	0.3368	220
8 (S-NI)	24	(S-BA)	0.2477	227
8 (S-NI)	25	(S-LA)	-0.2649	119
8 (S-NI)	26	(S-Y)	0.0879	226
8 (S-NI)	27	(S-ZR)	-0.2420	229
9 (S-CO)	10	(S-CU)	0.5105	229
9 (S-CO)	11	(S-MO)	0.3046	31
9 (S-CO)	12	(AA-MO-P)	0.1562	121
9 (S-CO)	13	(CM-W-P)	0.0627	48
9 (S-CO)	14	(S-BI)	0.5871	5
9 (S-CO)	15	(AA-AU-P)	0.3988	46
9 (S-CO)	16	(S-PB)	0.1545	227
9 (S-CO)	17	(S-AG)	0.3183	32
9 (S-CO)	18	(AA-ZN-P)	0.2879	212
9 (S-CO)	19	(S-AS)	0.1446	23
9 (S-CO)	20	(S-SB)	********	2
9 (S-CO)	21	(S-B)	0.1153	228
9 (S-CO)	22	(S-BE)	-0.0902	144
9 (S-CO)	23	(S-SR)	0.0975	220
9 (S-CO)	24	(S-BA)	0.1895	227
9 (S-CO)	25	(S-LA)	-0.0404	119
9 (S-CO)	26	(S-Y)	0.2266	226
9 (S-CO)	27	(S-ZR)	-0.0990	229
10 (S-CU)	11	(S-MO)	0.6259	31
10 (S-CU)	12	(AA-MO-P)	0.4910	121

Table 7. Correlation coefficients for analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
10 (S-CU)	13	(CM-W-P)	0.5218	48
10 (S-CU)	14	(S-BI)	-0.0212	5
10 (S-CU)	15	(AA-AU-P)	0.4425	46
10 (S-CU)	16	(S-PB)	0.4436	227
10 (S-CU)	17	(S-AG)	-0.1309	32
10 (S-CU)	18	(AA-ZN-P)	0.4822	212
10 (S-CU)	19	(S-AS)	0.0740	23
10 (S-CU)	20	(S-SB)	-1.0000	2
10 (S-CU)	21	(S-B)	0.0681	228
10 (S-CU)	22	(S-BE)	-0.0081	144
10 (S-CU)	23	(S-SR)	-0.1469	220
10 (S-CU)	24	(S-BA)	-0.0054	227
10 (S-CU)	25	(S-LA)	0.0080	119
10 (S-CU)	26	(S-Y)	0.0203	226
10 (S-CU)	27	(S-ZR)	-0.1593	229
11 (S-MO)	12	(AA-MO-P)	0.5972	24
11 (S-MO)	13	(CM-W-P)	0.3932	14
11 (S-MO)	14	(S-BI)	-1.0000	2
11 (S-MO)	15	(AA-AU-P)	-0.4704	7
11 (S-MO)	16	(S-PB)	0.1944	31
11 (S-MO)	17	(S-AG)	-0.3969	8
11 (S-MO)	18	(AA-ZN-P)	0.1680	31
11 (S-MO)	19	(S-AS)	-0.7673	4
11 (S-MO)	20	(S-SB)	********	0
11 (S-MO)	21	(S-B)	0.0164	31
11 (S-MO)	22	(S-BE)	-0.1199	30
11 (S-MO)	23	(S-SR)	0.2267	30
11 (S-MO)	24	(S-BA)	-0.2771	31
11 (S-MO)	25	(S-LA)	0.5034	17
11 (S-MO)	26	(S-Y)	-0.1030	31
11 (S-MO)	27	(S-ZR)	-0.3585	31
12 (AA-MO-P)	13	(CM-W-P)	0.3033	30
12 (AA-MO-P)	14	(S-BI)	********	4
12 (AA-MO-P)	15	(AA-AU-P)	0.0709	13
12 (AA-MO-P)	16	(S-PB)	0.2082	120
12 (AA-MO-P)	17	(S-AG)	0.2221	12
12 (AA-MO-P)	18	(AA-ZN-P)	0.3782	122
12 (AA-MO-P)	19	(S-AS)	0.4309	11
12 (AA-MO-P)	20	(S-SB)	********	0
12 (AA-MO-P)	21	(S-B)	-0.1536	120
12 (AA-MO-P)	22	(S-BE)	-0.0088	74
12 (AA-MO-P)	23	(S-SR)	-0.1992	117
12 (AA-MO-P)	24	(S-BA)	0.0912	121
12 (AA-MO-P)	25	(S-LA)	-0.2014	32
12 (AA-MO-P)	26	(S-Y)	0.0479	120
12 (AA-MO-P)	27	(S-ZR)	-0.0104	121
13 (CM-W-P)	14	(S-BI)	********	4
13 (CM-W-P)	15	(AA-AU-P)	0.4077	8
13 (CM-W-P)	16	(S-PB)	0.3923	48
13 (CM-W-P)	17	(S-AG)	-0.6079	13

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
13 (CM-W-P)	18	(AA-ZN-P)	0.5823	48
13 (CM-W-P)	19	(S-AS)	0.2978	9
13 (CM-W-P)	20	(S-SB)	********	0
13 (CM-W-P)	21	(S-B)	-0.4097	48
13 (CM-W-P)	22	(S-BE)	0.2303	36
13 (CM-W-P)	23	(S-SR)	-0.5152	43
13 (CM-W-P)	24	(S-BA)	-0.2011	47
13 (CM-W-P)	25	(S-LA)	-0.6157	28
13 (CM-W-P)	26	(S-Y)	-0.3222	46
13 (CM-W-P)	27	(S-ZR)	-0.2265	48
14 (S-BI)	15	(AA-AU-P)	-1.0000	2
14 (S-BI)	16	(S-PB)	0.7999	5
14 (S-BI)	17	(S-AG)	0.9848	4
14 (S-BI)	18	(AA-ZN-P)	-0.3427	5
14 (S-BI)	19	(S-AS)	0.0128	5
14 (S-BI)	20	(S-SB)	********	0
14 (S-BI)	21	(S-B)	0.8138	5
14 (S-BI)	22	(S-BE)	-0.3333	4
14 (S-BI)	23	(S-SR)	0.8250	4
14 (S-BI)	24	(S-BA)	-0.3653	5
14 (S-BI)	25	(S-LA)	1.0000	2
14 (S-BI)	26	(S-Y)	0.1582	5
14 (S-BI)	27	(S-ZR)	0.7384	5
15 (AA-AU-P)	16	(S-PB)	0.4300	46
15 (AA-AU-P)	17	(S-AG)	0.0020	17
15 (AA-AU-P)	18	(AA-ZN-P)	0.3281	32
15 (AA-AU-P)	19	(S-AS)	0.0467	11
15 (AA-AU-P)	20	(S-SB)	-1.0000	2
15 (AA-AU-P)	21	(S-B)	-0.2600	46
15 (AA-AU-P)	22	(S-BE)	0.7168	21
15 (AA-AU-P)	23	(S-SR)	-0.4397	46
15 (AA-AU-P)	24	(S-BA)	0.0107	46
15 (AA-AU-P)	25	(S-LA)	0.3017	33
15 (AA-AU-P)	26	(S-Y)	0.0905	46
15 (AA-AU-P)	27	(S-ZR)	0.0053	46
16 (S-PB)	17	(S-AG)	0.4092	32
16 (S-PB)	18	(AA-ZN-P)	0.5739	211
16 (S-PB)	19	(S-AS)	0.3108	23
16 (S-PB)	20	(S-SB)	1.0000	2
16 (S-PB)	21	(S-B)	0.2049	226
16 (S-PB)	22	(S-BE)	-0.0351	144
16 (S-PB)	23	(S-SR)	-0.1234	218
16 (S-PB)	24	(S-BA)	0.0698	225
16 (S-PB)	25	(S-LA)	0.1804	119
16 (S-PB)	26	(S-Y)	0.0350	224
16 (S-PB)	27	(S-ZR)	0.0137	227
17 (S-AG)	18	(AA-ZN-P)	0.1896	31
17 (S-AG)	19	(S-AS)	0.2994	13
17 (S-AG)	20	(S-SB)	1.0000	2
17 (S-AG)	21	(S-B)	0.4805	32

Table 7. Correlation coefficients for analytical data from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
17 (S-AG)	22	(S-BE)	-0.4959	23
17 (S-AG)	23	(S-SR)	0.3739	30
17 (S-AG)	24	(S-BA)	0.2724	32
17 (S-AG)	25	(S-LA)	0.1446	24
17 (S-AG)	26	(S-Y)	0.2509	32
17 (S-AG)	27	(S-ZR)	0.3842	32
18 (AA-ZN-P)	19	(S-AS)	0.1450	23
18 (AA-ZN-P)	20	(S-SB)	1.0000	2
18 (AA-ZN-P)	21	(S-B)	0.1360	211
18 (AA-ZN-P)	22	(S-BE)	-0.0685	143
18 (AA-ZN-P)	23	(S-SR)	-0.2107	203
18 (AA-ZN-P)	24	(S-BA)	0.1428	210
18 (AA-ZN-P)	25	(S-LA)	-0.2888	108
18 (AA-ZN-P)	26	(S-Y)	-0.0069	209
18 (AA-ZN-P)	27	(S-ZR)	-0.0745	212
19 (S-AS)	20	(S-SB)	-1.0000	2
19 (S-AS)	21	(S-B)	0.2142	23
19 (S-AS)	22	(S-BE)	0.6297	17
19 (S-AS)	23	(S-SR)	0.2005	21
19 (S-AS)	24	(S-BA)	0.2667	23
19 (S-AS)	25	(S-LA)	-0.1944	13
19 (S-AS)	26	(S-Y)	0.2879	23
19 (S-AS)	27	(S-ZR)	-0.1642	23
20 (S-SB)	21	(S-B)	1.0000	2
20 (S-SB)	22	(S-BE)	********	2
20 (S-SB)	23	(S-SR)	-1.0000	2
20 (S-SB)	24	(S-BA)	-1.0000	2
20 (S-SB)	25	(S-LA)	********	2
20 (S-SB)	26	(S-Y)	-1.0000	2
20 (S-SB)	27	(S-ZR)	-1.0000	2
21 (S-B)	22	(S-BE)	0.1221	143
21 (S-B)	23	(S-SR)	0.3011	219
21 (S-B)	24	(S-BA)	0.2446	226
21 (S-B)	25	(S-LA)	0.0930	119
21 (S-B)	26	(S-Y)	0.1568	225
21 (S-B)	27	(S-ZR)	0.0998	228
22 (S-BE)	23	(S-SR)	0.0416	139
22 (S-BE)	24	(S-BA)	0.0305	144
22 (S-BE)	25	(S-LA)	-0.1313	85
22 (S-BE)	26	(S-Y)	0.2948	144
22 (S-BE)	27	(S-ZR)	-0.2678	144
23 (S-SR)	24	(S-BA)	0.2897	220
23 (S-SR)	25	(S-LA)	0.2743	118
23 (S-SR)	26	(S-Y)	0.2558	220
23 (S-SR)	27	(S-ZR)	0.1108	220
24 (S-BA)	25	(S-LA)	0.0709	119
24 (S-BA)	26	(S-Y)	0.3471	226
24 (S-BA)	27	(S-ZR)	0.2377	227
25 (S-LA)	26	(S-Y)	0.1323	119
25 (S-LA)	27	(S-ZR)	0.3590	119

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
26 (S-Y)	27	(S-ZR)	0.3381	226

Table 8. Fisher K statistics for analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington

[The following qualifiers are used in reporting the spectrographic data: --, no determination made; N, concentration less than the detection limit; L, detected, but present at a concentration less than the value reported; G, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable.]

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
3	S-MG%	0	0	0	0	0	0	55	0	0.2000000	7.0000000	3
4	S-CA%	0	0	0	0	0	0	55	0	0.7000000	20.000000	4
5	S-FE%	0	0	0	0	0	0	55	0	0.7000000	30.000000	5
6	S-TI%	0	0	0	27	0	0	28	0	0.7000000	2.0000000	6
7	S-MN	0	0	0	0	0	0	55	0	200.00000	10000.000	7
8	S-CR	0	0	0	0	0	0	55	0	30.000000	1000.0000	8
9	S-NI	1	0	0	0	0	0	54	0	20.000000	500.00000	9
10	S-CO	1	0	0	0	0	0	54	0	10.000000	300.00000	10
11	S-CU	0	0	0	0	0	0	55	0	10.000000	5000.0000	11
12	S-MO	49	0	0	0	0	0	6	0	10.000000	200.00000	12
13	AA-MO-P	0	0	2	0	24	0	29	0	1.0000000	29.000000	13
14	CM-W-P	1	0	0	0	34	0	20	0	1.0000000	100.00000	14
15	S-SN	40	0	0	0	0	0	15	0	20.000000	70.000000	15
16	S-BI	49	0	1	0	0	0	5	0	20.000000	300.00000	16
17	S-PB	3	0	14	0	0	0	38	0	20.000000	2000.0000	17
18	S-AG	41	0	2	0	0	0	12	0	0.5000000	50.000000	18
19	AA-ZN-P	0	0	0	0	24	0	31	0	25.000000	2350.0000	19
20	S-AS	43	0	0	1	0	0	11	0	500.00000	20000.000	20
21	INST-HG	2	0	0	2	41	0	10	0	0.0200000	2.0000000	21
22	S-B	0	0	0	0	0	0	55	0	20.000000	3000.0000	22
23	S-BE	52	0	0	0	0	0	3	0	2.0000000	3.0000000	23
24	S-SR	20	0	10	0	0	0	25	0	200.00000	1000.0000	24
25	S-BA	1	0	0	0	0	0	54	0	70.000000	10000.000	25
26	S-LA	17	0	0	0	0	0	38	0	50.000000	1500.0000	26
27	S-Y	0	0	0	0	0	0	55	0	50.000000	1000.0000	27
28	S-ZR	0	0	0	33	0	0	22	0	150.00000	2000.0000	28

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
3	S-MG%	3.0745455	2.0404446	4.1634141	1.0891867	0.1282118	-21.405741	-1.2348979	3
4	S-CA%	4.3218182	3.0480529	9.2906263	80.378739	2.8384007	1062.3792	12.308060	4
5	S-FE%	13.858182	8.4058333	70.658034	-62.831426	-0.1057876	-3642.8493	-0.7296559	5
6	S-TI%	1.1857143	0.3535160	0.1249735	0.0613724	1.3891400	0.0143530	0.9189830	6
7	S-MN	3870.9091	3167.2907	10031731.	1.8851628D+10	0.5933146	-5.5923275D+13	-0.5557006	7
8	S-CR	274.18182	239.62695	57421.077	19099044.	1.3880485	4.8798327D+09	1.4800019	8
9	S-NI	79.259259	76.746381	5890.0070	1714396.8	3.7926052	6.1422105D+08	17.704884	9
10	S-CO	62.962963	45.820801	2099.5458	280349.86	2.9141528	57553928.	13.056425	10
11	S-CU	420.09091	977.14934	954820.82	3.7706457D+09	4.0414099	1.5496434D+13	16.995642	11
12	S-MO	60.000000	72.663608	5280.0000	729000.00	1.9001008	1.0522800D+08	3.7745351	12
13	AA-MO-P	4.6896552	5.7885567	33.507389	599.15572	3.0890776	12539.941	11.169001	13
14	CM-W-P	12.250000	23.478714	551.25000	41863.706	3.2345567	3364751.7	11.072758	14
15	S-SN	33.333333	16.329932	266.66667	4212.4542	0.9673466	-11135.531	-0.1565934	15
16	S-BI	148.00000	142.54824	20320.000	1132800.0	0.3910819	-1.2910080D+09	-3.1266663	16
17	S-PB	164.73684	343.10771	117722.90	1.8137333D+08	4.4903685	3.1914587D+11	23.028588	17
18	S-AG	8.7916667	14.102641	198.88447	7502.7616	2.6749757	300405.95	7.5946330	18
19	AA-ZN-P	195.48387	427.19113	182492.26	3.6200729D+08	4.6435556	7.7257533D+11	23.198075	19
20	S-AS	3672.7273	6058.8928	36710182.	5.4232308D+11	2.4382503	7.7960349D+15	5.7849646	20
21	INST-HG	0.5700000	0.8216650	0.6751333	0.7109333	1.2815765	-0.0351097	-0.0770279	21
22	S-B	273.45455	444.37313	197467.47	4.0955623D+08	4.6673479	1.0393035D+12	26.653316	22
23	S-BE	2.3333333	0.5773503	0.3333333	0.3333333	1.7320508			23
24	S-SR	296.00000	176.72955	31233.333	16394783.	2.9701485	1.0157788D+10	10.412679	24
25	S-BA	531.29630	1495.3034	2235932.3	1.8400156D+10	5.5034313	1.6251279D+14	32.506505	25
26	S-LA	248.68421	309.72674	95930.654	72098039.	2.4265394	6.2015303D+10	6.7388231	26
27	S-Y	204.72727	158.81336	25221.684	12519379.	3.1255157	7.9045870D+09	12.425991	27
28	S-ZR	1286.3636	707.81048	500995.67	-1.7093442D+08	-0.4820350	-3.3205944D+11	-1.3229636	28

NOTE: THE ABOVE STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY.

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington**

FREQUENCY TABLE FOR VARIABLE 3 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-7.500E-01	-5.833E-01	2	2	3.64	3.64	6.281E-01	2.997E+00
-5.833E-01	-4.167E-01	2	4	3.64	7.27	1.386E+00	2.716E-01
-4.167E-01	-2.500E-01	5	9	9.09	16.36	2.649E+00	2.087E+00
-2.500E-01	-8.333E-02	3	12	5.45	21.82	4.380E+00	4.349E-01
-8.333E-02	8.333E-02	3	15	5.45	27.27	6.270E+00	1.706E+00
8.333E-02	2.500E-01	3	18	5.45	32.73	7.770E+00	2.928E+00
2.500E-01	4.167E-01	5	23	9.09	41.82	8.335E+00	1.334E+00
4.167E-01	5.833E-01	10	33	18.18	60.00	7.739E+00	6.604E-01
5.833E-01	7.500E-01	19	52	34.55	94.55	6.221E+00	2.625E+01
7.500E-01	9.167E-01	3	55	5.45	100.00	9.259E+00	4.231E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.464E+01	4.290E+01

HISTOGRAM FOR VARIABLE 3 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E-01 XXXX
 3.162E-01 XXXX
 4.642E-01 XXXXXXXXX
 6.813E-01 XXXXX
 1.000E+00 XXXXX
 1.468E+00 XXXXX
 2.154E+00 XXXXXXXXX
 3.162E+00 XXXXXXXXXXXXXXXXXX
 4.642E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+00 XXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E-01
MAXIMUM ANTILOG	=	7.00000E+00
GEOMETRIC MEAN	=	2.14305E+00
GEOMETRIC DEVIATION	=	2.72958E+00
VARIANCE OF LOGS	=	1.90180E-01

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington** --continued

FREQUENCY TABLE FOR VARIABLE 4 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-2.500E-01	-8.333E-02	1	1	1.82	1.82	4.026E-01	8.864E-01
-8.333E-02	8.333E-02	2	3	3.64	5.45	1.689E+00	5.715E-02
8.333E-02	2.500E-01	2	5	3.64	9.09	4.870E+00	1.692E+00
2.500E-01	4.167E-01	8	13	14.55	23.64	9.654E+00	2.833E-01
4.167E-01	5.833E-01	16	29	29.09	52.73	1.316E+01	6.136E-01
5.833E-01	7.500E-01	18	47	32.73	85.45	1.234E+01	2.601E+00
7.500E-01	9.167E-01	4	51	7.27	92.73	7.954E+00	1.965E+00
9.167E-01	1.083E+00	3	54	5.45	98.18	3.526E+00	7.858E-02
1.083E+00	1.250E+00	0	54	0.00	98.18	1.075E+00	1.075E+00
1.250E+00	1.417E+00	1	55	1.82	100.00	2.608E-01	2.096E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.493E+01	1.135E+01

HISTOGRAM FOR VARIABLE 4 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XX
1.000E+00 XXXX
1.468E+00 XXXX
2.154E+00 XXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+00 XXXXXXX
1.000E+01 XXXXX
1.468E+01
2.154E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 3.58582E+00
GEOMETRIC DEVIATION = 1.85383E+00
VARIANCE OF LOGS = 7.18620E-02

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 5 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-2.500E-01	-8.333E-02	1	1	1.82	1.82	4.031E-01	8.837E-01
-8.333E-02	8.333E-02	3	4	5.45	7.27	8.949E-01	4.952E+00
8.333E-02	2.500E-01	3	7	5.45	12.73	1.753E+00	8.872E-01
2.500E-01	4.167E-01	5	12	9.09	21.82	3.030E+00	1.281E+00
4.167E-01	5.833E-01	0	12	0.00	21.82	4.622E+00	4.622E+00
5.833E-01	7.500E-01	1	13	1.82	23.64	6.223E+00	4.383E+00
7.500E-01	9.167E-01	2	15	3.64	27.27	7.393E+00	3.934E+00
9.167E-01	1.083E+00	5	20	9.09	36.36	7.751E+00	9.762E-01
1.083E+00	1.250E+00	13	33	23.64	60.00	7.171E+00	4.738E+00
1.250E+00	1.417E+00	18	51	32.73	92.73	5.855E+00	2.519E+01
1.417E+00	1.583E+00	4	55	7.27	100.00	9.664E+00	3.320E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.476E+01	5.517E+01

HISTOGRAM FOR VARIABLE 5 (S-FE%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XX
1.000E+00 XXXXX
1.468E+00 XXXXX
2.154E+00 XXXXXXXXX
3.162E+00
4.642E+00 XX
6.813E+00 XXXX
1.000E+01 XXXXXXXXX
1.468E+01 XXXXXXXXXXXXXXXXXXXXXXX
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  7.00000E-01
MAXIMUM ANTILOG      =  3.00000E+01
GEOMETRIC MEAN       =  9.54349E+00
GEOMETRIC DEVIATION  =  2.94388E+00
VARIANCE OF LOGS     =  2.19886E-01
```

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington**--continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-2.500E-01	-8.333E-02	1	1	1.82	1.82	1.993E+00	4.950E-01
-8.333E-02	8.333E-02	19	20	34.55	36.36	1.227E+01	3.692E+00
8.333E-02	2.500E-01	5	25	9.09	45.45	2.355E+01	1.461E+01
2.500E-01	4.167E-01	3	28	5.45	50.91	1.709E+01	1.161E+01
G		27	55	49.09	100.00	1.002E-01	7.219E+03
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	7.250E+03

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XX
1.000E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXX
2.154E+00 XXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 1.14331E+00
GEOMETRIC DEVIATION = 1.30272E+00
VARIANCE OF LOGS = 1.31911E-02

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
2.250E+00	-	2.417E+00	4	4	7.27	7.27	1.300E+00	5.605E+00
2.417E+00	-	2.583E+00	5	9	9.09	16.36	2.121E+00	3.907E+00
2.583E+00	-	2.750E+00	4	13	7.27	23.64	3.168E+00	2.184E-01
2.750E+00	-	2.917E+00	3	16	5.45	29.09	4.332E+00	4.095E-01
2.917E+00	-	3.083E+00	1	17	1.82	30.91	5.422E+00	3.607E+00
3.083E+00	-	3.250E+00	3	20	5.45	36.36	6.214E+00	1.662E+00
3.250E+00	-	3.417E+00	1	21	1.82	38.18	6.519E+00	4.673E+00
3.417E+00	-	3.583E+00	6	27	10.91	49.09	6.262E+00	1.093E-02
3.583E+00	-	3.750E+00	18	45	32.73	81.82	5.506E+00	2.835E+01
3.750E+00	-	3.917E+00	3	48	5.45	87.27	4.432E+00	4.628E-01
3.917E+00	-	4.083E+00	7	55	12.73	100.00	8.320E+00	2.095E-01
	G		0	55	0.00	100.00		
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.360E+01	4.912E+01

HISTOGRAM FOR VARIABLE 7 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+02 XXXXXXX
3.162E+02 XXXXXXXXX
4.642E+02 XXXXXXX
6.813E+02 XXXXX
1.000E+03 XX
1.468E+03 XXXXX
2.154E+03 XX
3.162E+03 XXXXXXXXXXX
4.642E+03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+03 XXXXX
1.000E+04 XXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+02
MAXIMUM ANTILOG      =  1.00000E+04
GEOMETRIC MEAN       =  2.19048E+03
GEOMETRIC DEVIATION  =  3.62100E+00
VARIANCE OF LOGS     =  3.12290E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 8 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00 -	1.583E+00	1	1	1.82	1.82	1.256E+00	5.217E-02
1.583E+00 -	1.749E+00	5	6	9.09	10.91	2.712E+00	1.931E+00
1.749E+00 -	1.916E+00	5	11	9.09	20.00	4.869E+00	3.506E-03
1.916E+00 -	2.083E+00	8	19	14.55	34.55	7.272E+00	7.296E-02
2.083E+00 -	2.249E+00	7	26	12.73	47.27	9.031E+00	4.569E-01
2.249E+00 -	2.416E+00	7	33	12.73	60.00	9.329E+00	5.814E-01
2.416E+00 -	2.583E+00	8	41	14.55	74.55	8.015E+00	2.661E-05
2.583E+00 -	2.749E+00	8	49	14.55	89.09	5.727E+00	9.026E-01
2.749E+00 -	2.916E+00	4	53	7.27	96.36	3.403E+00	1.048E-01
2.916E+00 -	3.083E+00	2	55	3.64	100.00	2.696E+00	1.796E-01
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.431E+01	4.285E+00

HISTOGRAM FOR VARIABLE 8 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+01 XX
4.634E+01 XXXXXXXXX
6.802E+01 XXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXX
2.151E+02 XXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXX
6.803E+02 XXXXXXX
9.985E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 1.89960E+02
GEOMETRIC DEVIATION = 2.42785E+00
VARIANCE OF LOGS = 1.48395E-01

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington**

FREQUENCY TABLE FOR VARIABLE 9 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		1	1	1.82	1.82		
L		0	1	0.00	1.82		
T		0	1	0.00	1.82	1.999E+00	4.989E-01
1.250E+00 -	1.417E+00	2	3	3.64	5.45	4.015E+00	1.011E+00
1.417E+00 -	1.583E+00	11	14	20.00	25.45	7.898E+00	1.218E+00
1.583E+00 -	1.750E+00	11	25	20.00	45.45	1.139E+01	1.317E-02
1.750E+00 -	1.917E+00	18	43	32.73	78.18	1.203E+01	2.957E+00
1.917E+00 -	2.083E+00	6	49	10.91	89.09	9.322E+00	1.184E+00
2.083E+00 -	2.250E+00	2	51	3.64	92.73	5.293E+00	2.049E+00
2.250E+00 -	2.417E+00	2	53	3.64	96.36	2.202E+00	1.861E-02
2.417E+00 -	2.583E+00	1	54	1.82	98.18	6.714E-01	1.608E-01
2.583E+00 -	2.750E+00	1	55	1.82	100.00	1.777E-01	3.806E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	1.292E+01

HISTOGRAM FOR VARIABLE 9 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXX
3.162E+01 XXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXX
1.468E+02 XXXX
2.154E+02 XXXX
3.162E+02 XX
4.642E+02 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  5.00000E+02
GEOMETRIC MEAN       =  6.22437E+01
GEOMETRIC DEVIATION  =  1.89481E+00
VARIANCE OF LOGS     =  7.70432E-02
```

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington**--continued

FREQUENCY TABLE FOR VARIABLE 10 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		1	1	1.82	1.82		
L		0	1	0.00	1.82		
T		0	1	0.00	1.82	3.511E-01	1.199E+00
9.160E-01 -	1.083E+00	3	4	5.45	7.27	1.037E+00	3.718E+00
1.083E+00 -	1.249E+00	2	6	3.64	10.91	2.877E+00	2.673E-01
1.249E+00 -	1.416E+00	3	9	5.45	16.36	6.041E+00	1.531E+00
1.416E+00 -	1.583E+00	6	15	10.91	27.27	9.598E+00	1.349E+00
1.583E+00 -	1.749E+00	13	28	23.64	50.91	1.154E+01	1.845E-01
1.749E+00 -	1.916E+00	20	48	36.36	87.27	1.050E+01	8.588E+00
1.916E+00 -	2.083E+00	3	51	5.45	92.73	7.233E+00	2.478E+00
2.083E+00 -	2.249E+00	3	54	5.45	98.18	3.770E+00	1.573E-01
2.249E+00 -	2.416E+00	0	54	0.00	98.18	1.487E+00	1.487E+00
2.416E+00 -	2.583E+00	1	55	1.82	100.00	5.632E-01	3.388E-01
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	2.130E+01

HISTOGRAM FOR VARIABLE 10 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXX
1.466E+01 XXXX
2.151E+01 XXXXX
3.157E+01 XXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXX
1.466E+02 XXXXX
2.151E+02
3.157E+02 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	3.00000E+02
GEOMETRIC MEAN	=	5.07899E+01
GEOMETRIC DEVIATION	=	1.99493E+00
VARIANCE OF LOGS	=	8.99571E-02

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington

FREQUENCY TABLE FOR VARIABLE 11 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	1	1	1.82	1.82	1.453E+00	1.412E-01
1.083E+00 -	1.249E+00	1	2	1.82	3.64	2.142E+00	6.088E-01
1.249E+00 -	1.416E+00	7	9	12.73	16.36	2.957E+00	5.526E+00
1.416E+00 -	1.583E+00	7	16	12.73	29.09	3.824E+00	2.637E+00
1.583E+00 -	1.749E+00	4	20	7.27	36.36	4.632E+00	8.618E-02
1.749E+00 -	1.916E+00	4	24	7.27	43.64	5.254E+00	2.994E-01
1.916E+00 -	2.083E+00	7	31	12.73	56.36	5.582E+00	3.600E-01
2.083E+00 -	2.249E+00	3	34	5.45	61.82	5.555E+00	1.175E+00
2.249E+00 -	2.416E+00	6	40	10.91	72.73	5.177E+00	1.307E-01
2.416E+00 -	2.583E+00	4	44	7.27	80.00	4.519E+00	5.970E-02
2.583E+00 -	2.749E+00	3	47	5.45	85.45	3.695E+00	1.307E-01
2.749E+00 -	2.916E+00	1	48	1.82	87.27	2.829E+00	1.183E+00
2.916E+00 -	3.083E+00	3	51	5.45	92.73	2.029E+00	4.644E-01
3.083E+00 -	3.249E+00	1	52	1.82	94.55	1.363E+00	9.673E-02
3.249E+00 -	3.416E+00	1	53	1.82	96.36	8.576E-01	2.365E-02
3.416E+00 -	3.583E+00	0	53	0.00	96.36	5.053E-01	5.053E-01
3.583E+00 -	3.749E+00	2	55	3.64	100.00	5.463E-01	3.869E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.292E+01	1.730E+01

HISTOGRAM FOR VARIABLE 11 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XX
1.466E+01 XX
2.151E+01 XXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXX
4.634E+01 XXXXXXX
6.802E+01 XXXXXXX
9.985E+01 XXXXXXXXXXXXX
1.466E+02 XXXXX
2.151E+02 XXXXXXXXXXX
3.157E+02 XXXXXXX
4.635E+02 XXXXX
6.803E+02 XX
9.985E+02 XXXXX
1.466E+03 XX
2.151E+03 XX
3.157E+03
4.635E+03 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  5.00000E+03
GEOMETRIC MEAN       =  1.17536E+02
GEOMETRIC DEVIATION  =  4.46116E+00
VARIANCE OF LOGS     =  4.21782E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 12 (S-MO)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		49	49	89.09	89.09		
	L		0	49	0.00	89.09		
	T		0	49	0.00	89.09	1.473E+01	7.973E+01
9.160E-01	-	1.083E+00	2	51	3.64	92.73	1.522E+01	1.148E+01
1.083E+00	-	1.249E+00	0	51	0.00	92.73	1.407E+01	1.407E+01
1.249E+00	-	1.416E+00	1	52	1.82	94.55	7.805E+00	5.933E+00
1.416E+00	-	1.583E+00	0	52	0.00	94.55	2.594E+00	2.594E+00
1.583E+00	-	1.749E+00	1	53	1.82	96.36	5.160E-01	4.539E-01
1.749E+00	-	1.916E+00	1	54	1.82	98.18	6.134E-02	1.436E+01
1.916E+00	-	2.083E+00	0	54	0.00	98.18	0.000E+00	0.000E+00
2.083E+00	-	2.249E+00	0	54	0.00	98.18	0.000E+00	0.000E+00
2.249E+00	-	2.416E+00	1	55	1.82	100.00	4.538E-03	2.183E+02
	G		0	55	0.00	100.00		
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.500E+01	3.470E+02

HISTOGRAM FOR VARIABLE 12 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXX
1.466E+01
2.151E+01 XX
3.157E+01
4.634E+01 XX
6.802E+01 XX
9.985E+01
1.466E+02
2.151E+02 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  2.00000E+02
GEOMETRIC MEAN       =  3.34468E+01
GEOMETRIC DEVIATION  =  3.28839E+00
VARIANCE OF LOGS     =  2.67272E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 13 (AA-MO-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		N	0	0	0.00	0.00		
		L	2	2	6.45	6.45		
		T	0	2	0.00	6.45	2.507E+00	1.025E-01
-8.400E-02	-	8.267E-02	5	7	16.13	22.58	2.679E+00	2.011E+00
8.267E-02	-	2.493E-01	0	7	0.00	22.58	4.047E+00	4.047E+00
2.493E-01	-	4.160E-01	10	17	32.26	54.84	5.077E+00	4.773E+00
4.160E-01	-	5.827E-01	4	21	12.90	67.74	5.291E+00	3.150E-01
5.827E-01	-	7.493E-01	3	24	9.68	77.42	4.579E+00	5.446E-01
7.493E-01	-	9.160E-01	4	28	12.90	90.32	3.292E+00	1.524E-01
9.160E-01	-	1.083E+00	1	29	3.23	93.55	1.965E+00	4.741E-01
1.083E+00	-	1.249E+00	1	30	3.23	96.77	9.744E-01	6.717E-04
1.249E+00	-	1.416E+00	0	30	0.00	96.77	4.012E-01	4.012E-01
1.416E+00	-	1.583E+00	1	31	3.23	100.00	1.875E-01	3.521E+00
		G	0	31	0.00	100.00		
		H	0	31				
		B	24	55				
TOTALS LESS H AND B			31				3.100E+01	1.634E+01

HISTOGRAM FOR VARIABLE 13 (AA-MO-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E-01 XXXXXXXXXXXXXXX
1.466E+00
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+00 XXXXXXXXXXXXX
4.634E+00 XXXXXXXXXX
6.802E+00 XXXXXXXXXXXXX
9.985E+00 XXX
1.466E+01 XXX
2.151E+01
3.157E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+00
MAXIMUM ANTILOG      =  2.90000E+01
GEOMETRIC MEAN       =  3.04953E+00
GEOMETRIC DEVIATION  =  2.38235E+00
VARIANCE OF LOGS     =  1.42133E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 14 (CM-W-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		1	1	4.76	4.76		
	L		0	1	0.00	4.76		
	T		0	1	0.00	4.76	2.563E+00	9.528E-01
-8.400E-02	-	8.267E-02	5	6	23.81	28.57	1.384E+00	9.446E+00
8.267E-02	-	2.493E-01	0	6	0.00	28.57	1.770E+00	1.770E+00
2.493E-01	-	4.160E-01	5	11	23.81	52.38	2.094E+00	4.033E+00
4.160E-01	-	5.827E-01	0	11	0.00	52.38	2.293E+00	2.293E+00
5.827E-01	-	7.493E-01	3	14	14.29	66.67	2.323E+00	1.972E-01
7.493E-01	-	9.160E-01	0	14	0.00	66.67	2.178E+00	2.178E+00
9.160E-01	-	1.083E+00	2	16	9.52	76.19	1.890E+00	6.400E-03
1.083E+00	-	1.249E+00	3	19	14.29	90.48	1.518E+00	1.448E+00
1.249E+00	-	1.416E+00	0	19	0.00	90.48	1.128E+00	1.128E+00
1.416E+00	-	1.583E+00	0	19	0.00	90.48	7.752E-01	7.752E-01
1.583E+00	-	1.749E+00	1	20	4.76	95.24	4.932E-01	5.207E-01
1.749E+00	-	1.916E+00	0	20	0.00	95.24	2.904E-01	2.904E-01
1.916E+00	-	2.083E+00	1	21	4.76	100.00	3.012E-01	1.621E+00
	G		0	21	0.00	100.00		
	H		0	21				
	B		34	55				
TOTALS LESS H AND B			21				2.100E+01	2.666E+01

HISTOGRAM FOR VARIABLE 14 (CM-W-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-01 XXXXXXXXXXXXXXXXXXXXXXXX
 1.466E+00
 2.151E+00 XXXXXXXXXXXXXXXXXXXXXXXX
 3.157E+00
 4.634E+00 XXXXXXXXXXXXXX
 6.802E+00
 9.985E+00 XXXXXXXXXX
 1.466E+01 XXXXXXXXXXXXXX
 2.151E+01
 3.157E+01
 4.635E+01 XXXXX
 6.803E+01
 9.985E+01 XXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+00
MAXIMUM ANTILOG      =  1.00000E+02
GEOMETRIC MEAN       =  4.37991E+00
GEOMETRIC DEVIATION  =  3.93503E+00
VARIANCE OF LOGS     =  3.53963E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 15 (S-SN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		40	40	72.73	72.73		
L		0	40	0.00	72.73		
T		0	40	0.00	72.73	1.208E+01	6.451E+01
1.250E+00 -	1.417E+00	7	47	12.73	85.45	2.638E+01	1.424E+01
1.417E+00 -	1.583E+00	3	50	5.45	90.91	1.464E+01	9.254E+00
1.583E+00 -	1.750E+00	4	54	7.27	98.18	1.848E+00	2.507E+00
1.750E+00 -	1.917E+00	1	55	1.82	100.00	5.077E-02	1.775E+01
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	1.083E+02

HISTOGRAM FOR VARIABLE 15 (S-SN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXXXXXXXXXX
3.162E+01 XXXXX
4.642E+01 XXXXXXX
6.813E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E+01
MAXIMUM ANTILOG	=	7.00000E+01
GEOMETRIC MEAN	=	3.01049E+01
GEOMETRIC DEVIATION	=	1.57790E+00
VARIANCE OF LOGS	=	3.92355E-02

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 16 (S-BI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		49	49	89.09	89.09		
L		1	50	1.82	90.91		
T		0	50	0.00	90.91	1.804E+01	5.663E+01
1.250E+00 -	1.417E+00	2	52	3.64	94.55	1.493E+01	1.119E+01
1.417E+00 -	1.583E+00	0	52	0.00	94.55	1.261E+01	1.261E+01
1.583E+00 -	1.750E+00	0	52	0.00	94.55	6.681E+00	6.681E+00
1.750E+00 -	1.917E+00	0	52	0.00	94.55	2.217E+00	2.217E+00
1.917E+00 -	2.083E+00	1	53	1.82	96.36	4.606E-01	6.316E-01
2.083E+00 -	2.250E+00	0	53	0.00	96.36	5.983E-02	5.983E-02
2.250E+00 -	2.417E+00	0	53	0.00	96.36	0.000E+00	0.000E+00
2.417E+00 -	2.583E+00	2	55	3.64	100.00	5.107E-03	7.793E+02
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	8.693E+02

HISTOGRAM FOR VARIABLE 16 (S-BI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXX
3.162E+01
4.642E+01
6.813E+01
1.000E+02 XX
1.468E+02
2.154E+02
3.162E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  3.00000E+02
GEOMETRIC MEAN       =  8.15193E+01
GEOMETRIC DEVIATION  =  3.89165E+00
VARIANCE OF LOGS     =  3.48258E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 18 (S-PB)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		3	3	5.45	5.45		
	L		14	17	25.45	30.91		
	T		0	17	0.00	30.91	1.138E+01	2.777E+00
1.250E+00	-	1.417E+00	11	28	20.00	50.91	5.910E+00	4.383E+00
1.417E+00	-	1.583E+00	6	34	10.91	61.82	6.935E+00	1.260E-01
1.583E+00	-	1.750E+00	4	38	7.27	69.09	7.287E+00	1.483E+00
1.750E+00	-	1.917E+00	3	41	5.45	74.55	6.857E+00	2.170E+00
1.917E+00	-	2.083E+00	4	45	7.27	81.82	5.779E+00	5.476E-01
2.083E+00	-	2.250E+00	1	46	1.82	83.64	4.361E+00	2.591E+00
2.250E+00	-	2.417E+00	3	49	5.45	89.09	2.948E+00	9.270E-04
2.417E+00	-	2.583E+00	2	51	3.64	92.73	1.784E+00	2.611E-02
2.583E+00	-	2.750E+00	2	53	3.64	96.36	9.671E-01	1.103E+00
2.750E+00	-	2.917E+00	1	54	1.82	98.18	4.694E-01	5.997E-01
2.917E+00	-	3.083E+00	0	54	0.00	98.18	2.040E-01	2.040E-01
3.083E+00	-	3.250E+00	0	54	0.00	98.18	7.943E-02	7.943E-02
3.250E+00	-	3.417E+00	1	55	1.82	100.00	3.952E-02	2.334E+01
	G		0	55	0.00	100.00		
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.500E+01	3.943E+01

HISTOGRAM FOR VARIABLE 18 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E+01 XXXXXXXXXXXXXXXXXXXX
 3.162E+01 XXXXXXXXXXX
 4.642E+01 XXXXXXX
 6.813E+01 XXXXX
 1.000E+02 XXXXXXX
 1.468E+02 XX
 2.154E+02 XXXXX
 3.162E+02 XXXX
 4.642E+02 XXXX
 6.813E+02 XX
 1.000E+03
 1.468E+03
 2.154E+03 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  2.00000E+03
GEOMETRIC MEAN       =  6.57607E+01
GEOMETRIC DEVIATION  =  3.37625E+00
VARIANCE OF LOGS     =  2.79243E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 19 (S-AG)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		41	41	74.55	74.55		
L		2	43	3.64	78.18		
T		0	43	0.00	78.18	3.583E+00	4.336E+02
-4.170E-01	-2.503E-01	1	44	1.82	80.00	4.554E+00	2.774E+00
-2.503E-01	-8.367E-02	0	44	0.00	80.00	7.360E+00	7.360E+00
-8.367E-02	8.300E-02	3	47	5.45	85.45	9.596E+00	4.533E+00
8.300E-02	2.497E-01	0	47	0.00	85.45	1.009E+01	1.009E+01
2.497E-01	4.163E-01	1	48	1.82	87.27	8.564E+00	6.680E+00
4.163E-01	5.830E-01	1	49	1.82	89.09	5.862E+00	4.032E+00
5.830E-01	7.497E-01	2	51	3.64	92.73	3.237E+00	4.727E-01
7.497E-01	9.163E-01	1	52	1.82	94.55	1.442E+00	1.354E-01
9.163E-01	1.083E+00	1	53	1.82	96.36	5.180E-01	4.484E-01
1.083E+00	1.250E+00	0	53	0.00	96.36	1.501E-01	1.501E-01
1.250E+00	1.416E+00	1	54	1.82	98.18	3.508E-02	2.654E+01
1.416E+00	1.583E+00	0	54	0.00	98.18	6.612E-03	6.612E-03
1.583E+00	1.750E+00	1	55	1.82	100.00	1.141E-03	8.742E+02
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	1.371E+03

HISTOGRAM FOR VARIABLE 19 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XX
6.808E-01
9.992E-01 XXXXX
1.467E+00
2.153E+00 XX
3.160E+00 XX
4.638E+00 XXXX
6.808E+00 XX
9.992E+00 XX
1.467E+01
2.153E+01 XX
3.160E+01
4.638E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E-01
MAXIMUM ANTILOG      =  5.00000E+01
GEOMETRIC MEAN       =  3.63089E+00
GEOMETRIC DEVIATION  =  3.95054E+00
VARIANCE OF LOGS     =  3.55999E-01
```

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington**--continued

FREQUENCY TABLE FOR VARIABLE 20 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.250E+00 -	1.417E+00	1	1	3.23	3.23	1.819E+00	3.690E-01
1.417E+00 -	1.583E+00	6	7	19.35	22.58	2.773E+00	3.756E+00
1.583E+00 -	1.750E+00	6	13	19.35	41.94	3.705E+00	1.421E+00
1.750E+00 -	1.917E+00	5	18	16.13	58.06	4.341E+00	1.001E-01
1.917E+00 -	2.083E+00	4	22	12.90	70.97	4.459E+00	4.727E-02
2.083E+00 -	2.250E+00	1	23	3.23	74.19	4.016E+00	2.265E+00
2.250E+00 -	2.417E+00	4	27	12.90	87.10	3.171E+00	2.165E-01
2.417E+00 -	2.583E+00	2	29	6.45	93.55	2.196E+00	1.744E-02
2.583E+00 -	2.750E+00	0	29	0.00	93.55	1.333E+00	1.333E+00
2.750E+00 -	2.917E+00	1	30	3.23	96.77	7.094E-01	1.191E-01
2.917E+00 -	3.083E+00	0	30	0.00	96.77	3.310E-01	3.310E-01
3.083E+00 -	3.250E+00	0	30	0.00	96.77	1.354E-01	1.354E-01
3.250E+00 -	3.417E+00	1	31	3.23	100.00	6.934E-02	1.249E+01
G		0	31	0.00	100.00		
H		0	31				
B		24	55				
TOTALS LESS H AND B		31				2.906E+01	2.260E+01

HISTOGRAM FOR VARIABLE 20 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXX
3.162E+01 XXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXX
1.468E+02 XXX
2.154E+02 XXXXXXXXXXXXX
3.162E+02 XXXXXX
4.642E+02
6.813E+02 XXX
1.000E+03
1.468E+03
2.154E+03 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.50000E+01
MAXIMUM ANTILOG      =  2.35000E+03
GEOMETRIC MEAN       =  8.92699E+01
GEOMETRIC DEVIATION  =  2.86460E+00
VARIANCE OF LOGS     =  2.08908E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 21 (S-AS)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		43	43	78.18	78.18		
	L		0	43	0.00	78.18		
	T		0	43	0.00	78.18	1.371E+01	6.256E+01
2.583E+00	-	2.750E+00	2	45	3.64	81.82	8.999E+00	5.443E+00
2.750E+00	-	2.916E+00	2	47	3.64	85.45	9.933E+00	6.336E+00
2.916E+00	-	3.083E+00	2	49	3.64	89.09	8.932E+00	5.380E+00
3.083E+00	-	3.250E+00	0	49	0.00	89.09	6.544E+00	6.544E+00
3.250E+00	-	3.416E+00	3	52	5.45	94.55	3.906E+00	2.101E-01
3.416E+00	-	3.583E+00	0	52	0.00	94.55	1.899E+00	1.899E+00
3.583E+00	-	3.750E+00	0	52	0.00	94.55	7.522E-01	7.522E-01
3.750E+00	-	3.916E+00	0	52	0.00	94.55	2.427E-01	2.427E-01
3.916E+00	-	4.083E+00	1	53	1.82	96.36	6.377E-02	1.374E+01
4.083E+00	-	4.250E+00	0	53	0.00	96.36	1.365E-02	1.365E-02
4.250E+00	-	4.416E+00	1	54	1.82	98.18	2.760E-03	3.603E+02
	G		1	55	1.82	100.00	0.000E+00	0.000E+00
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.500E+01	4.635E+02

HISTOGRAM FOR VARIABLE 21 (S-AS)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+02 XXXX
6.808E+02 XXXX
9.992E+02 XXXX
1.467E+03
2.153E+03 XXXXX
3.160E+03
4.638E+03
6.808E+03
9.992E+03 XX
1.467E+04
2.153E+04 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+02
MAXIMUM ANTILOG      =  2.00000E+04
GEOMETRIC MEAN       =  1.61580E+03
GEOMETRIC DEVIATION  =  3.32017E+00
VARIANCE OF LOGS     =  2.71609E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 22 (INST-HG)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		2	2	14.29	14.29		
L		0	2	0.00	14.29		
T		0	2	0.00	14.29	2.144E+00	9.730E-03
-1.750E+00	- -1.583E+00	2	4	14.29	28.57	5.787E-01	3.491E+00
-1.583E+00	- -1.417E+00	0	4	0.00	28.57	6.649E-01	6.649E-01
-1.417E+00	- -1.250E+00	3	7	21.43	50.00	7.443E-01	6.836E+00
-1.250E+00	- -1.083E+00	0	7	0.00	50.00	8.118E-01	8.118E-01
-1.083E+00	- -9.167E-01	0	7	0.00	50.00	8.626E-01	8.626E-01
-9.167E-01	- -7.500E-01	1	8	7.14	57.14	8.930E-01	1.281E-02
-7.500E-01	- -5.833E-01	0	8	0.00	57.14	9.008E-01	9.008E-01
-5.833E-01	- -4.167E-01	1	9	7.14	64.29	8.853E-01	1.486E-02
-4.167E-01	- -2.500E-01	0	9	0.00	64.29	8.477E-01	8.477E-01
-2.500E-01	- -8.333E-02	0	9	0.00	64.29	7.909E-01	7.909E-01
-8.333E-02	- 8.334E-02	1	10	7.14	71.43	7.189E-01	1.100E-01
8.334E-02	- 2.500E-01	0	10	0.00	71.43	6.366E-01	6.366E-01
2.500E-01	- 4.167E-01	2	12	14.29	85.71	2.520E+00	1.073E-01
G		2	14	14.29	100.00	-2.384E-07	-1.678E+07
H		0	14				
B		41	55				
TOTALS LESS H AND B		14				1.400E+01	-1.678E+07

HISTOGRAM FOR VARIABLE 22 (INST-HG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E-02 XXXXXXXXXXXXXX
 3.162E-02
 4.642E-02 XXXXXXXXXXXXXXXXXXXXX
 6.813E-02
 1.000E-01
 1.468E-01 XXXXXXX
 2.154E-01
 3.162E-01 XXXXXXX
 4.642E-01
 6.813E-01
 1.000E+00 XXXXXXX
 1.468E+00
 2.154E+00 XXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E-02
MAXIMUM ANTILOG      =  2.00000E+00
GEOMETRIC MEAN       =  1.47060E-01
GEOMETRIC DEVIATION  =  6.44187E+00
VARIANCE OF LOGS     =  6.54500E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 23 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.250E+00 -	1.417E+00	1	1	1.82	1.82	1.475E+00	1.532E-01
1.417E+00 -	1.583E+00	4	5	7.27	9.09	2.703E+00	6.221E-01
1.583E+00 -	1.750E+00	7	12	12.73	21.82	4.334E+00	1.640E+00
1.750E+00 -	1.917E+00	5	17	9.09	30.91	6.079E+00	1.916E-01
1.917E+00 -	2.083E+00	7	24	12.73	43.64	7.463E+00	2.868E-02
2.083E+00 -	2.250E+00	4	28	7.27	50.91	8.016E+00	2.012E+00
2.250E+00 -	2.417E+00	14	42	25.45	76.36	7.534E+00	5.549E+00
2.417E+00 -	2.583E+00	3	45	5.45	81.82	6.197E+00	1.649E+00
2.583E+00 -	2.750E+00	5	50	9.09	90.91	4.460E+00	6.544E-02
2.750E+00 -	2.917E+00	1	51	1.82	92.73	2.809E+00	1.165E+00
2.917E+00 -	3.083E+00	3	54	5.45	98.18	1.548E+00	1.363E+00
3.083E+00 -	3.250E+00	0	54	0.00	98.18	7.463E-01	7.463E-01
3.250E+00 -	3.417E+00	0	54	0.00	98.18	3.148E-01	3.148E-01
3.417E+00 -	3.583E+00	1	55	1.82	100.00	1.677E-01	4.130E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.385E+01	1.963E+01

HISTOGRAM FOR VARIABLE 23 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XX
3.162E+01 XXXXXXX
4.642E+01 XXXXXXXXXXXXX
6.813E+01 XXXXXXXXX
1.000E+02 XXXXXXXXXXXXX
1.468E+02 XXXXXXX
2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+02 XXXXX
4.642E+02 XXXXXXXXX
6.813E+02 XX
1.000E+03 XXXXX
1.468E+03
2.154E+03
3.162E+03 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 3.00000E+03
GEOMETRIC MEAN = 1.48812E+02
GEOMETRIC DEVIATION = 2.84199E+00

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 24 (S-BE)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		52	52	94.55	94.55		
L		0	52	0.00	94.55		
T		0	52	0.00	94.55	6.152E-01	4.292E+03
2.500E-01 -	4.167E-01	2	54	3.64	98.18	0.000E+00	0.000E+00
4.167E-01 -	5.833E-01	1	55	1.82	100.00	5.438E+01	5.240E+01
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	4.344E+03

HISTOGRAM FOR VARIABLE 24 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXXX
3.162E+00 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+00
MAXIMUM ANTILOG      =  3.00000E+00
GEOMETRIC MEAN       =  2.28943E+00
GEOMETRIC DEVIATION  =  1.26377E+00
VARIANCE OF LOGS     =  1.03360E-02
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		20	20	36.36	36.36		
L		10	30	18.18	54.55		
T		0	30	0.00	54.55	1.179E+01	2.813E+01
2.250E+00 -	2.417E+00	14	44	25.45	80.00	2.489E+01	4.766E+00
2.417E+00 -	2.583E+00	7	51	12.73	92.73	1.562E+01	4.758E+00
2.583E+00 -	2.750E+00	3	54	5.45	98.18	2.586E+00	6.628E-02
2.750E+00 -	2.917E+00	0	54	0.00	98.18	1.092E-01	1.092E-01
2.917E+00 -	3.083E+00	1	55	1.82	100.00	1.136E-03	8.783E+02
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	9.162E+02

HISTOGRAM FOR VARIABLE 25 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+02 XXXXXXXXXXXXX
4.642E+02 XXXXX
6.813E+02
1.000E+03 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+02
MAXIMUM ANTILOG      =  1.00000E+03
GEOMETRIC MEAN       =  2.66715E+02
GEOMETRIC DEVIATION  =  1.51853E+00
VARIANCE OF LOGS     =  3.29144E-02
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington--continued

FREQUENCY TABLE FOR VARIABLE 26 (S-BA)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		1	1	1.82	1.82		
	L		0	1	0.00	1.82		
	T		0	1	0.00	1.82	5.216E+00	3.408E+00
1.750E+00	-	1.917E+00	2	3	3.64	5.45	4.490E+00	1.381E+00
1.917E+00	-	2.083E+00	16	19	29.09	34.55	6.379E+00	1.451E+01
2.083E+00	-	2.250E+00	11	30	20.00	54.55	7.841E+00	1.272E+00
2.250E+00	-	2.417E+00	7	37	12.73	67.27	8.342E+00	2.158E-01
2.417E+00	-	2.583E+00	9	46	16.36	83.64	7.679E+00	2.273E-01
2.583E+00	-	2.750E+00	3	49	5.45	89.09	6.117E+00	1.588E+00
2.750E+00	-	2.917E+00	1	50	1.82	90.91	4.216E+00	2.454E+00
2.917E+00	-	3.083E+00	2	52	3.64	94.55	2.515E+00	1.054E-01
3.083E+00	-	3.250E+00	0	52	0.00	94.55	1.298E+00	1.298E+00
3.250E+00	-	3.417E+00	1	53	1.82	96.36	5.797E-01	3.047E-01
3.417E+00	-	3.583E+00	0	53	0.00	96.36	2.240E-01	2.240E-01
3.583E+00	-	3.750E+00	1	54	1.82	98.18	7.492E-02	1.142E+01
3.750E+00	-	3.917E+00	0	54	0.00	98.18	2.168E-02	2.168E-02
3.917E+00	-	4.083E+00	1	55	1.82	100.00	6.864E-03	1.437E+02
	G		0	55	0.00	100.00		
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.500E+01	1.821E+02

HISTOGRAM FOR VARIABLE 26 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+01 XXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXXXXXXX
2.154E+02 XXXXXXXXXXXXX
3.162E+02 XXXXXXXXXXXXXXX
4.642E+02 XXXXX
6.813E+02 XX
1.000E+03 XXXX
1.468E+03
2.154E+03 XX
3.162E+03
4.642E+03 XX
6.813E+03
1.000E+04 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  7.00000E+01
MAXIMUM ANTILOG      =  1.00000E+04
GEOMETRIC MEAN       =  2.15173E+02
GEOMETRIC DEVIATION  =  2.69850E+00
VARIANCE OF LOGS     =  1.85866E-01
```

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 27 (S-LA)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		17	17	30.91	30.91		
	L		0	17	0.00	30.91		
	T		0	17	0.00	30.91	7.810E+00	1.081E+01
1.583E+00	-	1.750E+00	7	24	12.73	43.64	6.095E+00	1.344E-01
1.750E+00	-	1.916E+00	5	29	9.09	52.73	7.955E+00	1.098E+00
1.916E+00	-	2.083E+00	10	39	18.18	70.91	8.827E+00	1.557E-01
2.083E+00	-	2.250E+00	3	42	5.45	76.36	8.327E+00	3.408E+00
2.250E+00	-	2.416E+00	3	45	5.45	81.82	6.678E+00	2.026E+00
2.416E+00	-	2.583E+00	1	46	1.82	83.64	4.553E+00	2.772E+00
2.583E+00	-	2.750E+00	5	51	9.09	92.73	2.638E+00	2.114E+00
2.750E+00	-	2.916E+00	2	53	3.64	96.36	1.300E+00	3.771E-01
2.916E+00	-	3.083E+00	1	54	1.82	98.18	5.444E-01	3.813E-01
3.083E+00	-	3.250E+00	1	55	1.82	100.00	2.716E-01	1.954E+00
	G		0	55	0.00	100.00		
	H		0	55				
	B		0	55				
TOTALS LESS H AND B			55				5.500E+01	2.523E+01

HISTOGRAM FOR VARIABLE 27 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 XXXXXXXXXXXX
6.808E+01 XXXXXXXXX
9.992E+01 XXXXXXXXXXXXXXXXXX
1.467E+02 XXXXX
2.153E+02 XXXXX
3.160E+02 XX
4.638E+02 XXXXXXXXX
6.808E+02 XXXX
9.992E+02 XX
1.467E+03 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+01
MAXIMUM ANTILOG	=	1.50000E+03
GEOMETRIC MEAN	=	1.47266E+02
GEOMETRIC DEVIATION	=	2.63038E+00
VARIANCE OF LOGS	=	1.76416E-01

Table 9. Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

FREQUENCY TABLE FOR VARIABLE 28 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.583E+00 -	1.750E+00	2	2	3.64	3.64	1.368E+00	2.921E-01
1.750E+00 -	1.916E+00	3	5	5.45	9.09	4.429E+00	4.612E-01
1.916E+00 -	2.083E+00	12	17	21.82	30.91	9.528E+00	6.415E-01
2.083E+00 -	2.250E+00	7	24	12.73	43.64	1.362E+01	3.220E+00
2.250E+00 -	2.416E+00	21	45	38.18	81.82	1.295E+01	5.005E+00
2.416E+00 -	2.583E+00	6	51	10.91	92.73	8.183E+00	5.825E-01
2.583E+00 -	2.750E+00	2	53	3.64	96.36	3.437E+00	6.007E-01
2.750E+00 -	2.916E+00	1	54	1.82	98.18	9.588E-01	1.766E-03
2.916E+00 -	3.083E+00	1	55	1.82	100.00	2.013E-01	3.170E+00
G		0	55	0.00	100.00		
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.468E+01	1.397E+01

HISTOGRAM FOR VARIABLE 28 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 XXXX
6.808E+01 XXXXX
9.992E+01 XXXXXXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXX
4.638E+02 XXXX
6.808E+02 XX
9.992E+02 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 1.69422E+02
GEOMETRIC DEVIATION = 1.80422E+00
VARIANCE OF LOGS = 6.56849E-02

Table 9. **Frequency tables and histograms of analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington** --continued

FREQUENCY TABLE FOR VARIABLE 29 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.083E+00 -	2.250E+00	2	2	3.64	3.64	2.982E-02	1.302E+02
2.250E+00 -	2.416E+00	1	3	1.82	5.45	1.858E-01	3.567E+00
2.416E+00 -	2.583E+00	1	4	1.82	7.27	8.331E-01	3.345E-02
2.583E+00 -	2.750E+00	2	6	3.64	10.91	2.687E+00	1.759E-01
2.750E+00 -	2.916E+00	0	6	0.00	10.91	6.241E+00	6.241E+00
2.916E+00 -	3.083E+00	3	9	5.45	16.36	1.043E+01	5.297E+00
3.083E+00 -	3.250E+00	5	14	9.09	25.45	1.256E+01	4.554E+00
3.250E+00 -	3.416E+00	8	22	14.55	40.00	2.202E+01	8.928E+00
G		33	55	60.00	100.00	3.744E-03	2.908E+05
H		0	55				
B		0	55				
TOTALS LESS H AND B		55				5.500E+01	2.909E+05

HISTOGRAM FOR VARIABLE 29 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+02 XXXX
2.153E+02 XX
3.160E+02 XX
4.638E+02 XXXX
6.808E+02
9.992E+02 XXXXX
1.467E+03 XXXXXXXXX
2.153E+03 XXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.50000E+02
MAXIMUM ANTILOG      =  2.00000E+03
GEOMETRIC MEAN       =  9.81026E+02
GEOMETRIC DEVIATION  =  2.44961E+00
VARIANCE OF LOGS     =  1.51396E-01
```

Table 10. Correlation coefficients for analytical data from panned concentrates from stream sediments from the Monte cristo-Eagle Rocks study areas, Washington

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (S-MG%)	2	(S-CA%)	-0.2993	55
1 (S-MG%)	3	(S-FE%)	0.7552	55
1 (S-MG%)	4	(S-TI%)	-0.3270	28
1 (S-MG%)	5	(S-MN)	0.8233	55
1 (S-MG%)	6	(S-CR)	-0.1262	55
1 (S-MG%)	7	(S-NI)	0.2372	54
1 (S-MG%)	8	(S-CO)	0.3876	54
1 (S-MG%)	9	(S-CU)	0.0467	55
1 (S-MG%)	10	(S-MO)	-0.2808	6
1 (S-MG%)	11	(AA-MO-P)	-0.0601	29
1 (S-MG%)	12	(CM-W-P)	-0.2583	20
1 (S-MG%)	13	(S-SN)	-0.2532	15
1 (S-MG%)	14	(S-BI)	-0.7580	5
1 (S-MG%)	15	(S-PB)	-0.2703	38
1 (S-MG%)	16	(S-AG)	-0.7377	12
1 (S-MG%)	17	(AA-ZN-P)	-0.3755	31
1 (S-MG%)	18	(S-AS)	-0.3290	11
1 (S-MG%)	19	(INST-HG)	0.1888	10
1 (S-MG%)	20	(S-B)	0.0302	55
1 (S-MG%)	21	(S-BE)	-0.8192	3
1 (S-MG%)	22	(S-SR)	-0.1495	25
1 (S-MG%)	23	(S-BA)	-0.3249	54
1 (S-MG%)	24	(S-LA)	0.3593	38
1 (S-MG%)	25	(S-Y)	-0.2905	55
1 (S-MG%)	26	(S-ZR)	-0.0259	22
2 (S-CA%)	3	(S-FE%)	-0.6673	55
2 (S-CA%)	4	(S-TI%)	0.3257	28
2 (S-CA%)	5	(S-MN)	-0.5707	55
2 (S-CA%)	6	(S-CR)	0.1934	55
2 (S-CA%)	7	(S-NI)	0.1009	54
2 (S-CA%)	8	(S-CO)	-0.3602	54
2 (S-CA%)	9	(S-CU)	-0.2960	55
2 (S-CA%)	10	(S-MO)	-0.4595	6
2 (S-CA%)	11	(AA-MO-P)	0.0442	29
2 (S-CA%)	12	(CM-W-P)	-0.0829	20
2 (S-CA%)	13	(S-SN)	-0.2054	15
2 (S-CA%)	14	(S-BI)	0.5530	5
2 (S-CA%)	15	(S-PB)	-0.3090	38
2 (S-CA%)	16	(S-AG)	-0.0137	12
2 (S-CA%)	17	(AA-ZN-P)	-0.0527	31
2 (S-CA%)	18	(S-AS)	-0.3546	11
2 (S-CA%)	19	(INST-HG)	-0.2223	10
2 (S-CA%)	20	(S-B)	-0.1820	55
2 (S-CA%)	21	(S-BE)	-0.8192	3
2 (S-CA%)	22	(S-SR)	0.3209	25
2 (S-CA%)	23	(S-BA)	0.0910	54
2 (S-CA%)	24	(S-LA)	-0.2276	38
2 (S-CA%)	25	(S-Y)	0.1643	55
2 (S-CA%)	26	(S-ZR)	0.4219	22
3 (S-FE%)	4	(S-TI%)	-0.3776	28

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3 (S-FE%)	5	(S-MN)	0.9013	55
3 (S-FE%)	6	(S-CR)	-0.2586	55
3 (S-FE%)	7	(S-NI)	0.1080	54
3 (S-FE%)	8	(S-CO)	0.6893	54
3 (S-FE%)	9	(S-CU)	0.4213	55
3 (S-FE%)	10	(S-MO)	0.1908	6
3 (S-FE%)	11	(AA-MO-P)	0.1091	29
3 (S-FE%)	12	(CM-W-P)	0.2095	20
3 (S-FE%)	13	(S-SN)	0.1130	15
3 (S-FE%)	14	(S-BI)	-0.8360	5
3 (S-FE%)	15	(S-PB)	0.1003	38
3 (S-FE%)	16	(S-AG)	-0.5195	12
3 (S-FE%)	17	(AA-ZN-P)	0.1557	31
3 (S-FE%)	18	(S-AS)	0.1263	11
3 (S-FE%)	19	(INST-HG)	-0.3914	10
3 (S-FE%)	20	(S-B)	0.0633	55
3 (S-FE%)	21	(S-BE)	0.0976	3
3 (S-FE%)	22	(S-SR)	-0.3939	25
3 (S-FE%)	23	(S-BA)	-0.1837	54
3 (S-FE%)	24	(S-LA)	0.3180	38
3 (S-FE%)	25	(S-Y)	-0.3766	55
3 (S-FE%)	26	(S-ZR)	-0.2728	22
4 (S-TI%)	5	(S-MN)	-0.5441	28
4 (S-TI%)	6	(S-CR)	-0.0023	28
4 (S-TI%)	7	(S-NI)	0.2534	28
4 (S-TI%)	8	(S-CO)	0.2460	28
4 (S-TI%)	9	(S-CU)	0.5430	28
4 (S-TI%)	10	(S-MO)	1.0000	2
4 (S-TI%)	11	(AA-MO-P)	0.2543	23
4 (S-TI%)	12	(CM-W-P)	0.0378	15
4 (S-TI%)	13	(S-SN)	0.9464	4
4 (S-TI%)	14	(S-BI)	1.0000	3
4 (S-TI%)	15	(S-PB)	0.3715	19
4 (S-TI%)	16	(S-AG)	0.7382	7
4 (S-TI%)	17	(AA-ZN-P)	0.1561	23
4 (S-TI%)	18	(S-AS)	-1.0000	2
4 (S-TI%)	19	(INST-HG)	********	0
4 (S-TI%)	20	(S-B)	-0.0880	28
4 (S-TI%)	21	(S-BE)	********	0
4 (S-TI%)	22	(S-SR)	-0.3386	7
4 (S-TI%)	23	(S-BA)	-0.0150	27
4 (S-TI%)	24	(S-LA)	-0.2868	19
4 (S-TI%)	25	(S-Y)	-0.2910	28
4 (S-TI%)	26	(S-ZR)	0.2123	14
5 (S-MN)	6	(S-CR)	-0.1288	55
5 (S-MN)	7	(S-NI)	0.1090	54
5 (S-MN)	8	(S-CO)	0.4804	54
5 (S-MN)	9	(S-CU)	0.2137	55
5 (S-MN)	10	(S-MO)	-0.1492	6
5 (S-MN)	11	(AA-MO-P)	-0.2535	29

Table 10. Correlation coefficients for analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-MN)	12	(CM-W-P)	-0.3143	20
5 (S-MN)	13	(S-SN)	-0.2961	15
5 (S-MN)	14	(S-BI)	-0.9458	5
5 (S-MN)	15	(S-PB)	-0.0799	38
5 (S-MN)	16	(S-AG)	-0.6825	12
5 (S-MN)	17	(AA-ZN-P)	0.0225	31
5 (S-MN)	18	(S-AS)	-0.3524	11
5 (S-MN)	19	(INST-HG)	-0.0604	10
5 (S-MN)	20	(S-B)	0.0799	55
5 (S-MN)	21	(S-BE)	-0.5000	3
5 (S-MN)	22	(S-SR)	-0.2916	25
5 (S-MN)	23	(S-BA)	-0.1945	54
5 (S-MN)	24	(S-LA)	0.2804	38
5 (S-MN)	25	(S-Y)	-0.2162	55
5 (S-MN)	26	(S-ZR)	-0.3890	22
6 (S-CR)	7	(S-NI)	0.5417	54
6 (S-CR)	8	(S-CO)	-0.2760	54
6 (S-CR)	9	(S-CU)	-0.2757	55
6 (S-CR)	10	(S-MO)	0.5358	6
6 (S-CR)	11	(AA-MO-P)	-0.5196	29
6 (S-CR)	12	(CM-W-P)	-0.1503	20
6 (S-CR)	13	(S-SN)	-0.2522	15
6 (S-CR)	14	(S-BI)	0.3903	5
6 (S-CR)	15	(S-PB)	-0.0236	38
6 (S-CR)	16	(S-AG)	0.0500	12
6 (S-CR)	17	(AA-ZN-P)	-0.2483	31
6 (S-CR)	18	(S-AS)	-0.0005	11
6 (S-CR)	19	(INST-HG)	-0.2237	10
6 (S-CR)	20	(S-B)	0.0643	55
6 (S-CR)	21	(S-BE)	-0.5000	3
6 (S-CR)	22	(S-SR)	0.0525	25
6 (S-CR)	23	(S-BA)	-0.0669	54
6 (S-CR)	24	(S-LA)	-0.2173	38
6 (S-CR)	25	(S-Y)	0.1473	55
6 (S-CR)	26	(S-ZR)	-0.3409	22
7 (S-NI)	8	(S-CO)	0.3066	54
7 (S-NI)	9	(S-CU)	0.1478	54
7 (S-NI)	10	(S-MO)	0.6108	6
7 (S-NI)	11	(AA-MO-P)	-0.2015	29
7 (S-NI)	12	(CM-W-P)	-0.3331	20
7 (S-NI)	13	(S-SN)	0.0995	15
7 (S-NI)	14	(S-BI)	0.4054	5
7 (S-NI)	15	(S-PB)	-0.0278	38
7 (S-NI)	16	(S-AG)	0.1030	12
7 (S-NI)	17	(AA-ZN-P)	-0.1437	31
7 (S-NI)	18	(S-AS)	0.3512	11
7 (S-NI)	19	(INST-HG)	0.0777	10
7 (S-NI)	20	(S-B)	0.0410	54
7 (S-NI)	21	(S-BE)	-0.5000	3
7 (S-NI)	22	(S-SR)	0.1576	24

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
7 (S-NI)	23	(S-BA)	-0.1717	53
7 (S-NI)	24	(S-LA)	0.0749	37
7 (S-NI)	25	(S-Y)	-0.1720	54
7 (S-NI)	26	(S-ZR)	-0.2805	22
8 (S-CO)	9	(S-CU)	0.5385	54
8 (S-CO)	10	(S-MO)	0.5310	6
8 (S-CO)	11	(AA-MO-P)	0.3040	29
8 (S-CO)	12	(CM-W-P)	0.1004	20
8 (S-CO)	13	(S-SN)	0.1927	15
8 (S-CO)	14	(S-BI)	0.4557	5
8 (S-CO)	15	(S-PB)	0.3020	38
8 (S-CO)	16	(S-AG)	0.3004	12
8 (S-CO)	17	(AA-ZN-P)	0.2512	31
8 (S-CO)	18	(S-AS)	0.6248	11
8 (S-CO)	19	(INST-HG)	-0.0286	10
8 (S-CO)	20	(S-B)	-0.0718	54
8 (S-CO)	21	(S-BE)	-0.5000	3
8 (S-CO)	22	(S-SR)	-0.2005	24
8 (S-CO)	23	(S-BA)	-0.0975	53
8 (S-CO)	24	(S-LA)	0.2741	37
8 (S-CO)	25	(S-Y)	-0.2485	54
8 (S-CO)	26	(S-ZR)	0.1813	22
9 (S-CU)	10	(S-MO)	0.3985	6
9 (S-CU)	11	(AA-MO-P)	0.3751	29
9 (S-CU)	12	(CM-W-P)	0.4972	20
9 (S-CU)	13	(S-SN)	0.5930	15
9 (S-CU)	14	(S-BI)	0.7176	5
9 (S-CU)	15	(S-PB)	0.6412	38
9 (S-CU)	16	(S-AG)	0.6447	12
9 (S-CU)	17	(AA-ZN-P)	0.6299	31
9 (S-CU)	18	(S-AS)	0.3149	11
9 (S-CU)	19	(INST-HG)	0.1215	10
9 (S-CU)	20	(S-B)	0.1974	55
9 (S-CU)	21	(S-BE)	********	3
9 (S-CU)	22	(S-SR)	-0.3977	25
9 (S-CU)	23	(S-BA)	0.2076	54
9 (S-CU)	24	(S-LA)	-0.0403	38
9 (S-CU)	25	(S-Y)	-0.2159	55
9 (S-CU)	26	(S-ZR)	0.2976	22
10 (S-MO)	11	(AA-MO-P)	0.1994	4
10 (S-MO)	12	(CM-W-P)	1.0000	2
10 (S-MO)	13	(S-SN)	********	2
10 (S-MO)	14	(S-BI)	0.2810	4
10 (S-MO)	15	(S-PB)	-0.3260	6
10 (S-MO)	16	(S-AG)	-0.2365	5
10 (S-MO)	17	(AA-ZN-P)	-0.8158	3
10 (S-MO)	18	(S-AS)	********	1
10 (S-MO)	19	(INST-HG)	********	0
10 (S-MO)	20	(S-B)	0.5982	6
10 (S-MO)	21	(S-BE)	********	0

Table 10. Correlation coefficients for analytical data from panned concentrates from stream sediments from the Monte Cristo-Eagle Rocks study areas, Washington --continued

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
10 (S-MO)	22	(S-SR)	********	1
10 (S-MO)	23	(S-BA)	-0.0289	6
10 (S-MO)	24	(S-LA)	-0.0936	5
10 (S-MO)	25	(S-Y)	0.6040	6
10 (S-MO)	26	(S-ZR)	********	3
11 (AA-MO-P)	12	(CM-W-P)	0.5649	18
11 (AA-MO-P)	13	(S-SN)	0.8529	4
11 (AA-MO-P)	14	(S-BI)	0.7596	3
11 (AA-MO-P)	15	(S-PB)	-0.0217	20
11 (AA-MO-P)	16	(S-AG)	0.0617	8
11 (AA-MO-P)	17	(AA-ZN-P)	0.2081	27
11 (AA-MO-P)	18	(S-AS)	-1.0000	2
11 (AA-MO-P)	19	(INST-HG)	********	0
11 (AA-MO-P)	20	(S-B)	-0.2012	29
11 (AA-MO-P)	21	(S-BE)	********	0
11 (AA-MO-P)	22	(S-SR)	-0.3680	10
11 (AA-MO-P)	23	(S-BA)	0.4382	28
11 (AA-MO-P)	24	(S-LA)	0.3961	21
11 (AA-MO-P)	25	(S-Y)	0.0851	29
11 (AA-MO-P)	26	(S-ZR)	0.4038	18
12 (CM-W-P)	13	(S-SN)	********	1
12 (CM-W-P)	14	(S-BI)	1.0000	2
12 (CM-W-P)	15	(S-PB)	0.4890	14
12 (CM-W-P)	16	(S-AG)	0.8079	5
12 (CM-W-P)	17	(AA-ZN-P)	0.1037	20
12 (CM-W-P)	18	(S-AS)	********	1
12 (CM-W-P)	19	(INST-HG)	********	0
12 (CM-W-P)	20	(S-B)	-0.3167	20
12 (CM-W-P)	21	(S-BE)	********	0
12 (CM-W-P)	22	(S-SR)	0.0002	7
12 (CM-W-P)	23	(S-BA)	0.3451	19
12 (CM-W-P)	24	(S-LA)	0.5042	13
12 (CM-W-P)	25	(S-Y)	0.1723	20
12 (CM-W-P)	26	(S-ZR)	0.3186	14
13 (S-SN)	14	(S-BI)	********	2
13 (S-SN)	15	(S-PB)	0.3654	11
13 (S-SN)	16	(S-AG)	0.3402	5
13 (S-SN)	17	(AA-ZN-P)	-0.2846	4
13 (S-SN)	18	(S-AS)	0.3949	7
13 (S-SN)	19	(INST-HG)	-0.0144	5
13 (S-SN)	20	(S-B)	0.3993	15
13 (S-SN)	21	(S-BE)	********	2
13 (S-SN)	22	(S-SR)	-0.3417	10
13 (S-SN)	23	(S-BA)	-0.1315	15
13 (S-SN)	24	(S-LA)	-0.1160	12
13 (S-SN)	25	(S-Y)	-0.5545	15
13 (S-SN)	26	(S-ZR)	0.5882	5
14 (S-BI)	15	(S-PB)	0.6764	5
14 (S-BI)	16	(S-AG)	0.8925	4
14 (S-BI)	17	(AA-ZN-P)	-1.0000	2

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
14 (S-BI)	18	(S-AS)	********	1
14 (S-BI)	19	(INST-HG)	********	0
14 (S-BI)	20	(S-B)	0.8468	5
14 (S-BI)	21	(S-BE)	********	0
14 (S-BI)	22	(S-SR)	********	0
14 (S-BI)	23	(S-BA)	-0.2879	5
14 (S-BI)	24	(S-LA)	-0.8917	3
14 (S-BI)	25	(S-Y)	-0.5728	5
14 (S-BI)	26	(S-ZR)	********	2
15 (S-PB)	16	(S-AG)	0.6681	11
15 (S-PB)	17	(AA-ZN-P)	0.6545	22
15 (S-PB)	18	(S-AS)	0.2513	10
15 (S-PB)	19	(INST-HG)	-0.4111	5
15 (S-PB)	20	(S-B)	0.0986	38
15 (S-PB)	21	(S-BE)	-1.0000	2
15 (S-PB)	22	(S-SR)	-0.3340	18
15 (S-PB)	23	(S-BA)	0.2009	38
15 (S-PB)	24	(S-LA)	-0.2481	29
15 (S-PB)	25	(S-Y)	-0.1141	38
15 (S-PB)	26	(S-ZR)	0.1466	16
16 (S-AG)	17	(AA-ZN-P)	0.3183	8
16 (S-AG)	18	(S-AS)	0.6892	4
16 (S-AG)	19	(INST-HG)	********	0
16 (S-AG)	20	(S-B)	-0.3019	12
16 (S-AG)	21	(S-BE)	********	0
16 (S-AG)	22	(S-SR)	********	3
16 (S-AG)	23	(S-BA)	-0.2921	12
16 (S-AG)	24	(S-LA)	-0.6052	8
16 (S-AG)	25	(S-Y)	-0.5899	12
16 (S-AG)	26	(S-ZR)	0.6814	6
17 (AA-ZN-P)	18	(S-AS)	-1.0000	2
17 (AA-ZN-P)	19	(INST-HG)	********	0
17 (AA-ZN-P)	20	(S-B)	0.0687	31
17 (AA-ZN-P)	21	(S-BE)	********	0
17 (AA-ZN-P)	22	(S-SR)	0.0824	10
17 (AA-ZN-P)	23	(S-BA)	0.6381	30
17 (AA-ZN-P)	24	(S-LA)	-0.2857	21
17 (AA-ZN-P)	25	(S-Y)	-0.0902	31
17 (AA-ZN-P)	26	(S-ZR)	0.4863	17
18 (S-AS)	19	(INST-HG)	-0.2712	3
18 (S-AS)	20	(S-B)	-0.2931	11
18 (S-AS)	21	(S-BE)	********	0
18 (S-AS)	22	(S-SR)	-0.4049	7
18 (S-AS)	23	(S-BA)	0.2297	11
18 (S-AS)	24	(S-LA)	0.4559	8
18 (S-AS)	25	(S-Y)	-0.2883	11
18 (S-AS)	26	(S-ZR)	-0.5774	4
19 (INST-HG)	20	(S-B)	-0.0547	10
19 (INST-HG)	21	(S-BE)	********	2
19 (INST-HG)	22	(S-SR)	0.1327	9

Table 10. Correlation coefficients for analytical data from panned concentrates from stream sediments from the Monte cristo-Eagle Rocks study areas, Washington --continued

D0101 CORRELATION ANALYSIS - USGS STATPAC (04/27/77)

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
19 (INST-HG)	23 (S-BA)	-0.5028	10
19 (INST-HG)	24 (S-LA)	-0.3732	7
19 (INST-HG)	25 (S-Y)	0.4146	10
19 (INST-HG)	26 (S-ZR)	********	1
20 (S-B)	21 (S-BE)	0.7321	3
20 (S-B)	22 (S-SR)	-0.2739	25
20 (S-B)	23 (S-BA)	-0.0655	54
20 (S-B)	24 (S-LA)	-0.0784	38
20 (S-B)	25 (S-Y)	0.0975	55
20 (S-B)	26 (S-ZR)	-0.1897	22
21 (S-BE)	22 (S-SR)	0.5000	3
21 (S-BE)	23 (S-BA)	1.0000	3
21 (S-BE)	24 (S-LA)	********	2
21 (S-BE)	25 (S-Y)	-0.8131	3
21 (S-BE)	26 (S-ZR)	********	0
22 (S-SR)	23 (S-BA)	-0.1682	25
22 (S-SR)	24 (S-LA)	0.4707	17
22 (S-SR)	25 (S-Y)	0.3154	25
22 (S-SR)	26 (S-ZR)	-0.0352	11
23 (S-BA)	24 (S-LA)	-0.0378	38
23 (S-BA)	25 (S-Y)	0.0113	54
23 (S-BA)	26 (S-ZR)	0.2898	22
24 (S-LA)	25 (S-Y)	0.0760	38
24 (S-LA)	26 (S-ZR)	0.5362	15
25 (S-Y)	26 (S-ZR)	-0.2032	22