UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

CHEMICAL ANALYSES OF SAMPLES OF ROCK AND STREAM-SEDIMENT, AND NONMAGNETIC HEAVY-MINERAL CONCENTRATE, COYOTE-SE AND TABLE MOUNTAIN ROADLESS AREAS, INYO COUNTY, CALIFORNIA

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STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Coyote-SE and Table Mountain Roadless Areas in the Inyo National Forest, Inyo County, California. Coyote-SE (5033) and Table Mountain (5035) 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.

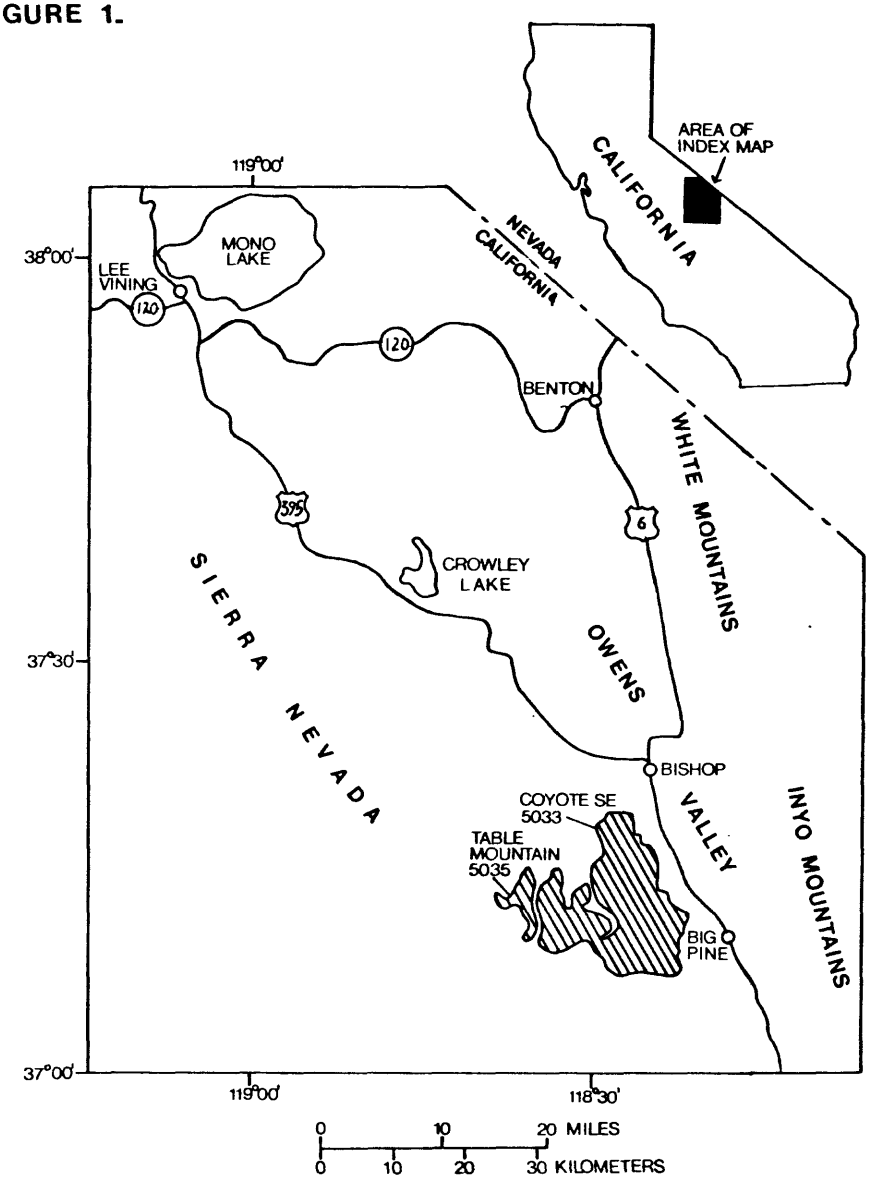
INTRODUCTION

A geochemical sampling program was conducted in the Coyote-SE and Table Mountain Roadless Areas in the eastern Sierra Nevada during the summer of 1981 in order to determine areas of anomolous mineral occurrence. This report gives data used in further work as part of a program of mineral resource evaluation. The two roadless areas are located in Inyo County in eastern California (fig. 1). Locations of all sampling sites are shown on plate 1. Information regarding analytical limits and reporting values is given in tables 1 through 3. A statistical summary, including frequency tables and histograms for samples of rock, stream sediment, and nonmagnetic heavy-mineral concentrate are given in tables 4, 5, and 6, respectively, and a complete listing of the analyses along with geographic coordinates is given in tables 7 through 9.

GEOLOGIC SETTING

The area covered by this report records a complex history involving Paleozoic miogeosynclinal sedimentation, late Paleozoic and Mesozoic deformation, Mesozoic plutonism, and Tertiary and Quaternary volcanic activity and basin-and-range faulting. The rocks have been divided into the following major groups: (1) lower Paleozoic through middle Paleozoic metasedimentary rocks consisting of marble and pelitic hornfels, micaceous quartzite, schist, and metachert. These rocks have been correlated with shallow-marine continental-shelf facies to the east in the White and Inyo Mountains (Moore and Foster, 1980); (2) upper Paleozoic metavolcanic rocks, mostly meta-andesite with some felsic types; (3) granitic rocks, mostly granodiorites, that were intruded in Late Triassic to Late Cretaceous time. The plutons are part of the Sierra Nevada batholith and are mostly quartz-bearing granitic rocks but include some hornblende gabbro, diorite, and quartz diorite of Early Triassic age; (4) basaltic and andesitic dikes, necks, and dissected flows of Miocene age. These volcanic rocks were erupted onto ancestral basin-and-range topography along faults that later controlled the structural development of Owens Valley and the eastern front of the Sierra Nevada. Detailed geologic maps have been published by Bateman (1965) for each of the four 1:62,500 15' quadrangles: Bishop, Big Pine, Mount Goddard, and Mount Tom. A revised geologic map of the roadless areas has been compiled by Elliott and McKee (1982).

FIGURE 1.



INDEX MAP SHOWING LOCATIONS OF ROADLESS AREAS

SAMPLE COLLECTION AND PREPARATION

A rock sample, a stream-sediment sample, and a bulk stream-sediment sample used for panning were collected at most sample locations. When water was available, the bulk sample was pan-concentrated at the site. At some sites only one or two of the three sample types were collected depending upon their availability. A total of 64 rock samples, 90 stream-sediment samples, and 90 bulk-sediment nonmagnetic heavy-mineral-concentrate samples were analyzed. Approximate sampling density was 1 sample/1.4 mi^2 (1 sample/3.6 km^2) for rocks, and 1 sample/1.0 mi^2 (1 sample/2.6 km^2) for the two sediment sample types. Analytical data for each sample type are listed in tables 7 through 9. Samples were collected by M. F. Diggles, E. H. McKee, D. A. Dellinger, M. A. Chaffee, and R. H. Hill.

Each sample locality shown on plate 1 was assigned a station number consisting of a two-letter prefix denoting the U.S. Geological Survey 15' topographic quadrangle in which the sample was collected (BI, Bishop; BP, Big Pine; MG, Mount Goddard) followed by a three-digit number unique to that quadrangle. Each sample is identified by the station number suffixed by a two-letter sample type designation (RK for rock samples; SS for stream-sediment samples; and KN for nonmagnetic heavy-mineral-concentrate samples). Plate 1 shows the locations and station numbers of all sample sites in the study area. Latitude and longitude, and Universal Transverse Mercator (UTM) eastings and northings for each sample locality are given in tables 7-9.

Rock samples

At stations near bedrock outcrops, a rock sample representative of the dominant lithology of the general area was collected within 150 ft (45 m) of the sediment sampling site. Obviously weathered material was avoided, although a small number of samples were collected from outcrops that were conspicuously iron stained. In the laboratory, samples were crushed, split, and ground to minus 200 mesh (less than 0.05 mm) in a pulverizer with ceramic plates; a split of this material was saved for analysis.

Stream-sediment samples

Sample stations for stream sediment were located at first-order (unbranched) and second-order (below the junction of two first order) streams as shown on plate 1. Samples of the most organic-free sediment available were collected from active stream channels. The samples are composites of material collected across the full width of the channel or, where necessary, along an active bar deposit. Poorly sorted coarse-sand- to silt-size material was the most preferred sample type. Sediments composed predominantly of coarser material were avoided because they generally lacked a sufficient amount of fine material. Areas with only fine-grained sediment often tend to contain natural concentrations of low-density quartzo-feldspathic minerals that are not representative of mineral deposits located upstream. After collection the sediment was passed through an 8-mesh (2.0-mm) stainless steel screen on site to remove pebbles and cobbles before further processing. Wet samples were air dried, then sieved through a 60-mesh (0.25-mm) stainless-steel screen in an aluminum frame. In the laboratory, the minus-60-mesh (less than 0.25 mm) fraction was pulverized to minus 200-mesh (less than 0.05 mm) in a pulverizer with ceramic plates and a split of this material saved for analysis.

Nonmagnetic heavy-mineral-concentrate samples

The bulk material for the nonmagnetic-concentrate samples was gathered in the same manner as that described above for the minus-60-mesh (less than 0.25 mm) stream-sediment samples. Each bulk sample was passed through an 8-mesh (2.0-mm) stainless-steel screen to remove coarse material. The sediment passing through the screen was wet panned to remove organic and clay-size material and to concentrate the dense minerals. The remaining sample was air dried and passed through an 18 mesh (1.0 mm) sieve. In the laboratory, the minus-18-mesh (less than 1.0 mm) fraction was separated into light and dense fractions by allowing this fraction to settle through bromoform (a liquid with a specific gravity of 2.86). The less-dense (<2.86 sp. gr.) material was discarded. Highly-magnetic minerals, primarily magnetite and ilmenite, were removed with a hand magnet and the remaining heavy-mineral fraction separated into magnetic and nonmagnetic fractions using a Frantz Isodynamic Separator[1] at a setting of 0.6 amperes, with 15° forward and 15° side angle settings. The resulting nonmagnetic sample was split into two fractions; one was ground in an agate mortar prior to analysis and the other saved for future mineralogical studies.

CHEMICAL ANALYSIS

Emission spectrography

Laboratory preparation and analysis was performed by the U.S. Geological Survey Branch of Exploration Research. All three sample types were analyzed for 31 elements (Fe, Mg, Ca, Ti, Mn, Ag, As, Au, B, Ba, Be, Bi, Cd, Co, Cr, Cu, La, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, Th, V, W, Y, Zn, and Zr) using a six-step semiquantitative emission spectrographic method (Grimes and Marranzino, 1968). The technique used for the spectrographic analysis of the heavy-mineral concentrate samples differed from that used for rock and stream-sediment samples in order to limit interference caused by high iron, calcium, titanium and zirconium concentrations. Only half as much sample is used. This reduced amount of sample is mixed with an equal weight of a mixture of graphite and silica. The spectral lines were recorded on film and compared against laboratory standards; the resulting values were then doubled. Doubled values that did not fall into one of the standard six-step reporting intervals (table 2) were reported as the next higher reporting value. This procedure raises the upper and the lower limits of detection (detection limits for each sample type are given in table 1).

The analytical spectrographic data values are reported as the approximate geometric midpoints of concentration ranges with six values reported in each order of magnitude. The reporting values and widths between range boundries are evenly spaced on a log-normal scale, a distribution that is consistant with the log-normal distribution of most elements in geologic materials (Rose and others, 1979). Analyses data are assigned to one of the six-step values listed in table 2, or at appropriate integral powers of ten of these values.

In general, the precision of the spectrographic method is plus or minus one reporting value of the value given by the analyst approximately 83 percent

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[1]Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

of the time and plus or minus two reporting values of the value given by the analyst 96 percent of the time (Motooka and Grimes, 1976). Because all of the samples for this report were analyzed by the same analyst using the same spectrographic instrument, better precision can be expected. A reference standard was analyzed with each batch of field samples to monitor the quality of the analyses. Because the analysis of heavy-mineral concentrates by emission spectrography involves half of the normal sample amount, and because of rounding errors on some values, the precision of these determinations is probably less than those for rock and stream-sediment samples, particularly for values near the limits of detection (Koch and others, 1980).

Atomic absorption and fluorometric analysis

In addition to the standard 31 element spectrographic analysis all rock and stream-sediment samples were analysed for zinc by atomic-absorption spectrometry (Ward and others, 1969) and for gold by flameless atomic-absorption spectrometry (Meier, 1980). Rock and stream-sediment samples were analyzed for uranium by fluorometry (Centanni and others, 1956). Precision of any determination varies both with the technique and the concentration of the element analyzed. Precision is commonly reported as a percent relative standard deviation (RSD), and is based on replicate analyses of samples selected to provide information at different concentration levels. In general, the precision for each method tends to be lowest for abundances near the lower limit of determination. For the three elements discussed here, the reported ranges of percent relative standard deviation, as determined by replicate analyses of a limited sample set, are as follows:

Element	Range of percent RSD	Reference
Au	0.0 - 22.8	Meier (1980)
U	5.0 - 20.0	O'Leary and Meier, written commun., 1982
Zn	3.4 - 30.2	Ward and others (1969, p. 21)

The analytical results for the atomic-absorption and fluorimetric analyses are presented as discrete values in tables 7 through 9. In tables 4 through 6, however, the analyses are given in terms of six-step intervals (table 2) to provide statistical treatment consistent with that for the semiquantitative analyses.

Atomic-absorption spectrometric analyses were performed by R. H. Hill, fluorometry by G. Van Gaalen, and emission spectrography by S. J. Sutley.

RESULTS OF ANALYSES

In tables 4-9, the analytical data for calcium, iron, magnesium, and titanium are reported in percent; values for all other elements are given in parts per million (ppm). Data were entered into the U.S. Geological Survey Rock Analysis Storage System (RASS). A standard binary STATPAC (Statistical Package) file was generated from the RASS file. A comprehensive description of the RASS-STATPAC system is given by Van Trump and Miesch (1976).

The data set format has provisions for analytical-value qualification codes. The codes used are listed in table 3.

Tables 7 through 9 list the chemical analyses for rock, minus-60-mesh (less than 0.25 mm) stream-sediment, and nonmagnetic heavy-mineral concentrate samples, respectively. In each table, column one list the sample numbers that coincide with those shown on the location map (pl. 1); columns 2 and 3 are north latitudes and west longitudes in degrees, minutes and seconds, and columns 4 and 5 are the Universal Transverse Mercator (UTM) coordinates for easting and northing. Columns for elements are headed with the element symbol, reporting units, and type of analysis. Percent is denoted by pct., parts per million by ppm, emission spectrographic analysis by s, atomic-absorption analysis by aa, and fluorometry by INST. Tables 7 through 9 were produced by formatting the data in the STATPAC file with the program PUBLST written by J. B. Fyfe (pers. comm., 1980) of the U.S. Geological Survey.

When an element was not detected by any type of analysis, it was left off the table. For this reason, gold, arsenic, bismuth, cadmium, and antimony were deleted from the rock-data sets (tables 4 and 7). Gold, antimony, or arsenic were deleted from the stream-sediment-data sets (tables 5 and 8). In addition, gold, zinc, uranium, cadmium, and silver were deleted from the heavy-mineral-data sets (tables 6 and 9).

STATISTICAL SUMMARIES

Tables 4 through 6 are statistical summaries of the analytical data, and were generated using the statistical program TOTS, written by Richard D. Koch (written commun., 1981). The program was used to divide all analyses not already reported in six-step class intervals into the intervals listed in table 2. The program generates frequency tables and histograms on the basis of these intervals and computes the arithmetic means, standard deviations, geometric means, and geometric deviations of the populations. Entries in tables 4 through 6 are identified in an explanation preceding table 4.

The values qualified with N, L, or G in tables 7 through 9 were not considered in the histograms; the resulting statistics are therefore biased. Many of the histograms show this bias by their truncated form.

The geometric mean of a set of analyses is the antilogarithm of the arithmetic mean of the logarithms of the analyses. This is an indication of central tendency and does not indicate geochemical abundance. Most elements are log-normally distributed in geologic materials (Ahrens, 1957; Siegel, 1974); histograms based on logarithmic scales like those used in tables 4 through 6 are symmetrical for log-normal distributions. The geometric deviation of a set of analyses is useful for noting the spread of a log-normally distributed population.

ACKNOWLEDGEMENTS

D. A. Dellinger and E. H. McKee helped plan the sampling program, and M. A. Chaffee, D. A. Dellinger and E. H. McKee helped collect the samples. S. K. McDanal, J. L. Donahoe, and C. M. McDougal entered the analyses and geographic coordinate data into the computer data files.

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Table 1. Upper and lower limits of detection
[S, semiquantitative emission spectrography; AA, atomic absorption spectrometry; INST, fluorometry; ppm, parts per million]

Analysis type elements and reporting units	Limits for rock and stream-sediment samples		Limits for heavy-mineral concentrate samples	
	Lower	Upper	Lower	Upper
S-Ca, percent	0.05	20	0.1	50
S-Fe, percent	.05	20	.1	50
S-Mg, percent	.02	10	.05	20
S-Ti, percent	.002	1	.005	2
S-Ag, ppm	.5	5,000	1	10,000
S-As, ppm	200	10,000	500	20,000
S-Au, ppm	10	500	20	1,000
S-B, ppm	10	2,000	20	5,000
S-Ba, ppm	20	5,000	50	10,000
S-Be, ppm	1	1,000	2	2,000
S-Bi, ppm	10	1,000	20	2,000
S-Cd, ppm	20	500	50	1,000
S-Co, ppm	5	2,000	10	50
S-Cr, ppm	10	5,000	20	10,000
S-Cu, ppm	5	20,000	10	50,000
S-La, ppm	20	1,000	50	2,000
S-Mn, ppm	10	5,000	20	10,000
S-Mo, ppm	5	2,000	10	5,000
S-Nb, ppm	20	2,000	50	5,000
S-Ni, ppm	5	5,000	10	10,000
S-Pb, ppm	10	20,000	20	50,000
S-Th, ppm	100	2,000	200	5,000
S-Sb, ppm	100	10,000	200	20,000
S-Sc, ppm	5	100	10	200
S-Sn, ppm	10	1,000	20	2,000
S-Sr, ppm	100	5,000	200	10,000
S-V, ppm	10	10,000	100	20,000
S-W, ppm	50	10,000	100	20,000
S-Y, ppm	10	2,000	20	5,000
S-Zn, ppm	200	10,000	500	20,000
S-Zr, ppm	10	1,000	20	2,000
AA-Au, ppm	.002	1/	2/	--
AA-Hg, ppm	.02	1/	2/	--
AA-Zn, ppm	5	1/	2/	--
INST-U, ppm	<.1	1/	2/	--

1/Dilution during sample preparation eliminates any upper detection limit.

2/No atomic-absorption nor fluorometry analysis performed.

Table 2. Six-step reporting values and ranges

Reporting values (class interval midpoints)	Concentration ranges	Class interval widths
1.5	1.2 - 1.8	0.6
2.0	1.8 - 2.6	.8
3.0	2.6 - 3.8	1.2
5.0	3.8 - 5.6	1.8
7.0	5.6 - 8.3	2.7
10	8.3 - 12	3.7

Table 3. Qualification codes used in tables 7 through 9

Code	Meaning
B	Blank; no analysis performed
N	Not detected by analysis
L or <n	Detected, but below the lower or upper limit of detection shown

EXPLANATION OF TABLE HEADINGS AND ABBREVIATIONS
FOR TABLES 4 THROUGH 6

VALUE = the data value
NO. = number of occurences of this value
% = NO. as percent of total number of data values (ANAL)
CUM = number of unqualified records at and below this value
CUM %
(col 1)= unqualified values at or below this value, as percent of ANAL
(col 2)= unqualified values above this value, as percent of ANAL
TOT CUM = number of values (N, L, T + unqual.) at or below this value
TOT CUM %
(col 1)= values not B, H, or OTHER at or below this value, as percent of ANAL
(col 2)= values not B, H, or OTHER above this value, as percent of ANAL

B - value = number of values qualified with 'B' (= no data)
- percent = percent of all records read (READ)
T - value = number of values qualified with 'T' (= trace)
- percent = percent of all values not B, H, or OTHER (ANAL)
H - value = number of values qualified with 'H' (= interference)
- percent = percent of all values not B, H, or OTHER (ANAL)
N - value = number of values qualified with 'N' (= not detected)
- percent = percent of all values not B, H, or OTHER (ANAL)
L - value = number of values qualified with 'L' (= less than)
- percent = percent of all values not B, H, or OTHER (ANAL)
G - value = number of values qualified with 'G' (= greater than)
- percent = percent of all values not B, H, or OTHER (ANAL)
OTHER = number of qualified values which are not B, T, H, N, L, or G
- percent = percent of all records read (READ)
UNQUAL = number of unqualified data values
- percent = percent of values not B, H, or OTHER (ANAL)
ANAL = total number of valid data values (= unqualified + N, L, T, or G)
READ = number of input records read

MIN = minimum unqualified value
MAX = maximum unqualified value
AMEAN = arithmetic mean of unqualified values
SD = standard deviation of the unqualified values
GMEAN = geometric mean of unqualified values
GD = geometric deviation of unqualified values
VALUES = number of data values used to compute the above statistics.

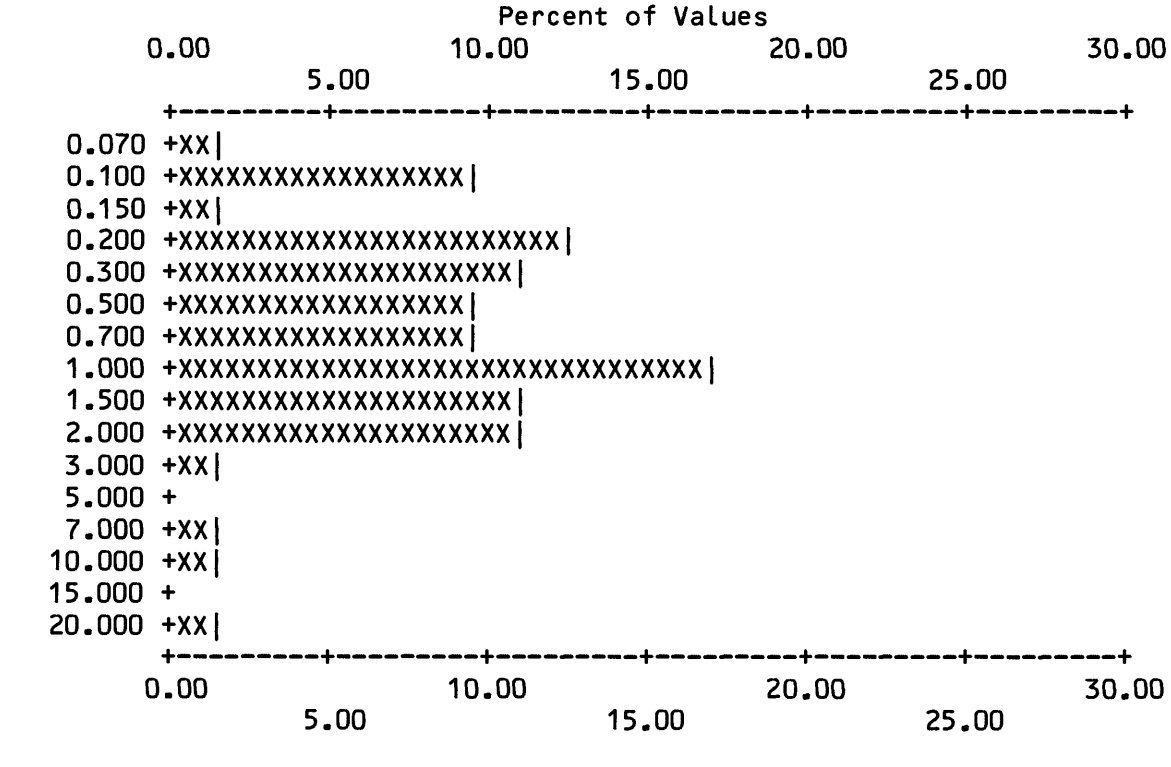
Table 4. Frequency tables and histograms for rock samples

S-CA%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.070	1	1.56	1	1.6	98.4	1	1.6	98.4
2	0.100	6	9.38	7	10.9	89.1	7	10.9	89.1
3	0.150	1	1.56	8	12.5	87.5	8	12.5	87.5
4	0.200	8	12.50	16	25.0	75.0	16	25.0	75.0
5	0.300	7	10.94	23	35.9	64.1	23	35.9	64.1
6	0.500	6	9.38	29	45.3	54.7	29	45.3	54.7
7	0.700	6	9.38	35	54.7	45.3	35	54.7	45.3
8	1.000	11	17.19	46	71.9	28.1	46	71.9	28.1
9	1.500	7	10.94	53	82.8	17.2	53	82.8	17.2
10	2.000	7	10.94	60	93.8	6.3	60	93.8	6.3
11	3.000	1	1.56	61	95.3	4.7	61	95.3	4.7
12	7.000	1	1.56	62	96.9	3.1	62	96.9	3.1
13	10.000	1	1.56	63	98.4	1.6	63	98.4	1.6
14	20.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.070	20.00	1.363	2.82	0.626	3.23	64



Each increment (each X or | plotted) = 0.500 %

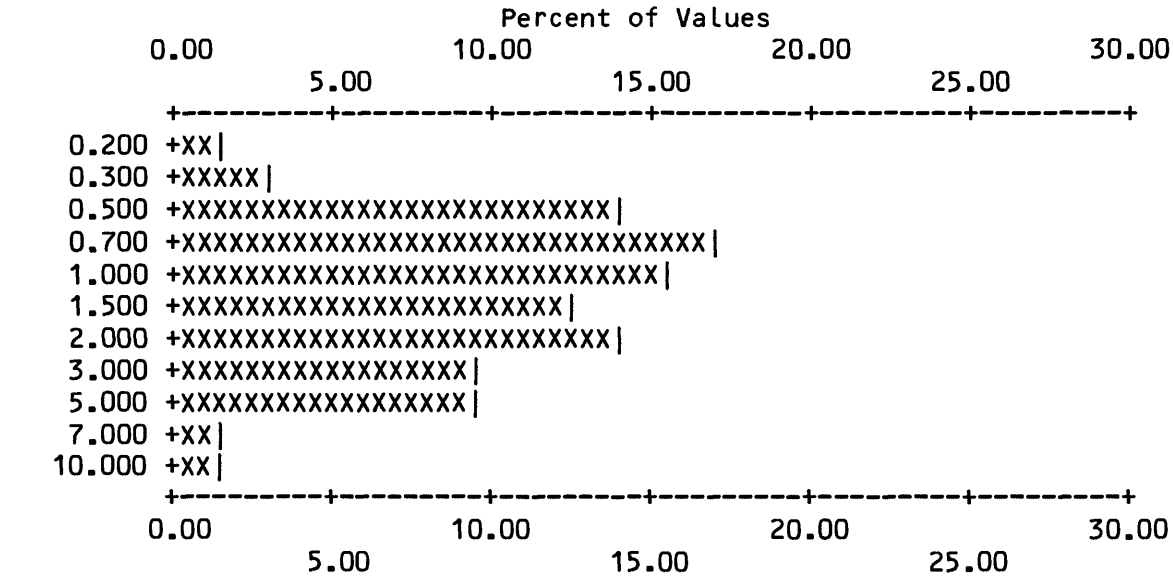
Table 4. Frequency tables and histograms for rock samples - (continued)

S-FE%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.200	1	1.56	1	1.6	98.4	1	1.6	98.4
2	0.300	2	3.13	3	4.7	95.3	3	4.7	95.3
3	0.500	9	14.06	12	18.8	81.3	12	18.8	81.3
4	0.700	11	17.19	23	35.9	64.1	23	35.9	64.1
5	1.000	10	15.63	33	51.6	48.4	33	51.6	48.4
6	1.500	8	12.50	41	64.1	35.9	41	64.1	35.9
7	2.000	9	14.06	50	78.1	21.9	50	78.1	21.9
8	3.000	6	9.38	56	87.5	12.5	56	87.5	12.5
9	5.000	6	9.38	62	96.9	3.1	62	96.9	3.1
10	7.000	1	1.56	63	98.4	1.6	63	98.4	1.6
11	10.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.200	10.00	1.844	1.81	1.280	2.32	64



Each increment (each X or | plotted) = 0.500 %

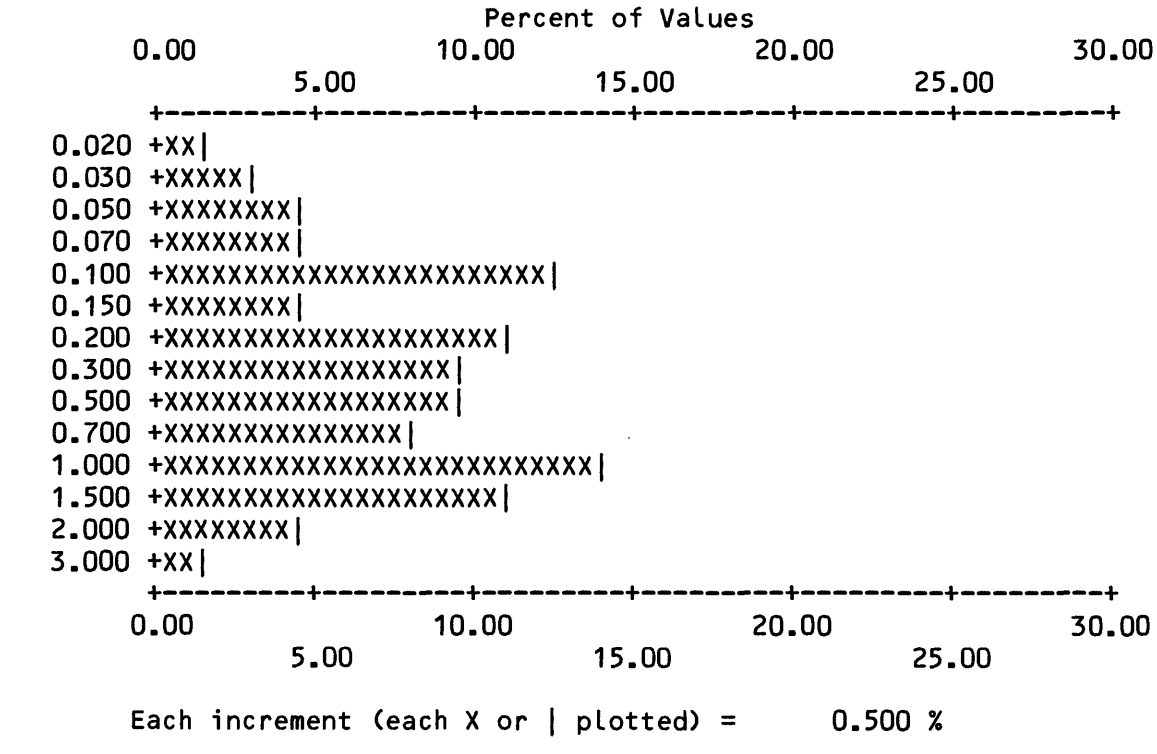
Table 4. Frequency tables and histograms for rock samples - (continued)

S-MG%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.020	1	1.56	1	1.6	98.4	1	1.6	98.4
2	0.030	2	3.13	3	4.7	95.3	3	4.7	95.3
3	0.050	3	4.69	6	9.4	90.6	6	9.4	90.6
4	0.070	3	4.69	9	14.1	85.9	9	14.1	85.9
5	0.100	8	12.50	17	26.6	73.4	17	26.6	73.4
6	0.150	3	4.69	20	31.3	68.8	20	31.3	68.8
7	0.200	7	10.94	27	42.2	57.8	27	42.2	57.8
8	0.300	6	9.38	33	51.6	48.4	33	51.6	48.4
9	0.500	6	9.38	39	60.9	39.1	39	60.9	39.1
10	0.700	5	7.81	44	68.8	31.3	44	68.8	31.3
11	1.000	9	14.06	53	82.8	17.2	53	82.8	17.2
12	1.500	7	10.94	60	93.8	6.3	60	93.8	6.3
13	2.000	3	4.69	63	98.4	1.6	63	98.4	1.6
14	3.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.020	3.00	0.623	0.64	0.333	3.48	64



Each increment (each X or | plotted) = 0.500 %

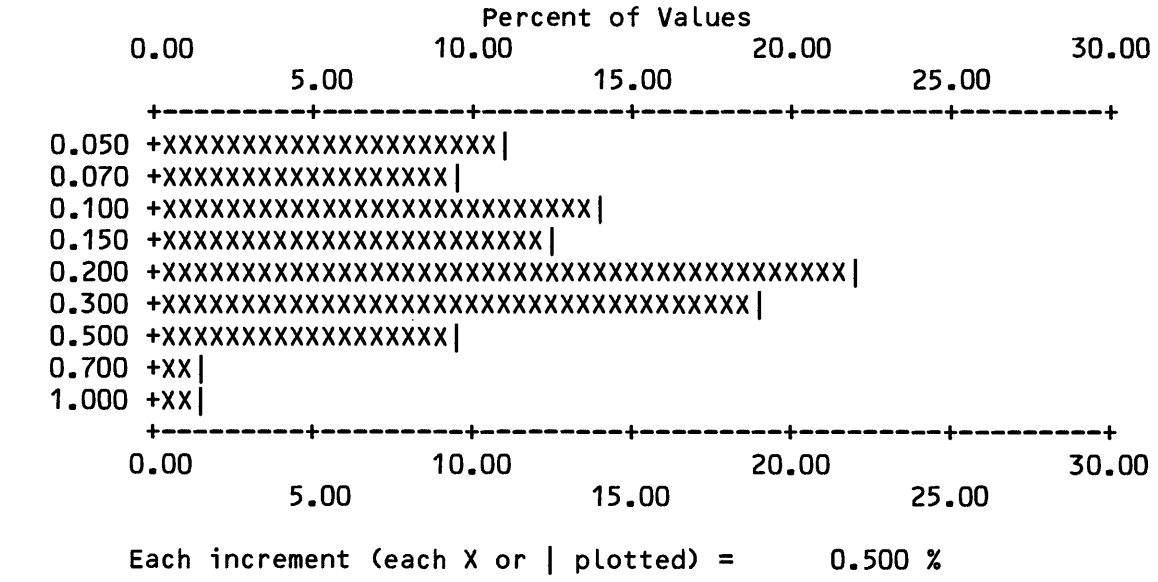
Table 4. Frequency tables and histograms for rock samples - (continued)

S-TI%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.050	7	10.94	7	10.9	89.1	7	10.9	89.1
2	0.070	6	9.38	13	20.3	79.7	13	20.3	79.7
3	0.100	9	14.06	22	34.4	65.6	22	34.4	65.6
4	0.150	8	12.50	30	46.9	53.1	30	46.9	53.1
5	0.200	14	21.88	44	68.8	31.3	44	68.8	31.3
6	0.300	12	18.75	56	87.5	12.5	56	87.5	12.5
7	0.500	6	9.38	62	96.9	3.1	62	96.9	3.1
8	0.700	1	1.56	63	98.4	1.6	63	98.4	1.6
9	1.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.050	1.00	0.218	0.17	0.168	2.09	64



Each increment (each X or | plotted) = 0.500 %

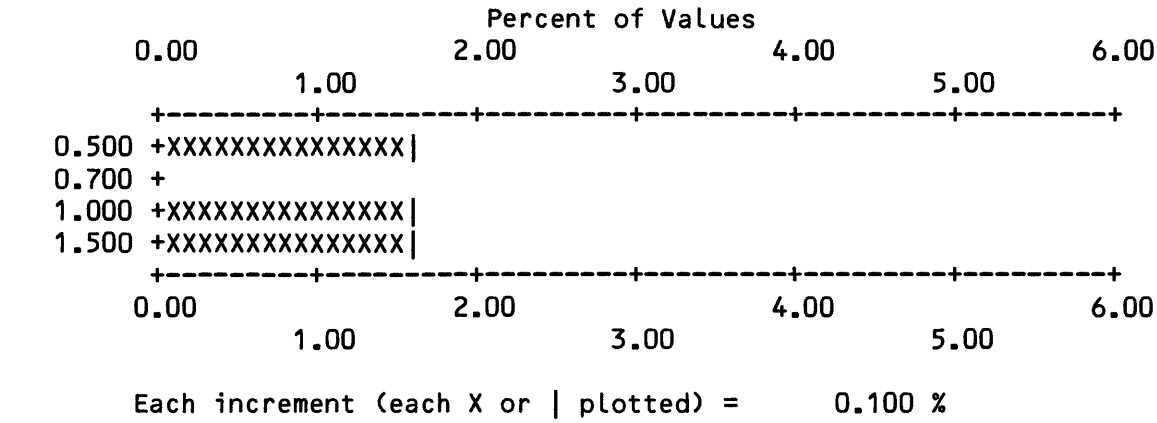
Table 4. Frequency tables and histograms for rock samples - (continued)

S-AG

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.500	1	1.56	1	1.6	98.4	62	96.9	3.1
2	1.000	1	1.56	2	3.1	96.9	63	98.4	1.6
3	1.500	1	1.56	3	4.7	95.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	60	1	0	0	3	64	64	VALUES
0.0	0.0	0.0	93.8	1.6	0.0	0.0	4.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.500	1.50	1.000	0.50	0.909	1.74	3



Each increment (each X or | plotted) = 0.100 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-B

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	36	56.25	36	56.3	43.8	44	68.8	31.3
2	15.000	13	20.31	49	76.6	23.4	57	89.1	10.9
3	20.000	5	7.81	54	84.4	15.6	62	96.9	3.1
4	70.000	1	1.56	55	85.9	14.1	63	98.4	1.6
5	200.000	1	1.56	56	87.5	12.5	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	2	6	0	0	56	64	64	VALUES
0.0	0.0	0.0	3.1	9.4	0.0	0.0	87.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	200.00	16.518	26.34	12.767	1.65	56

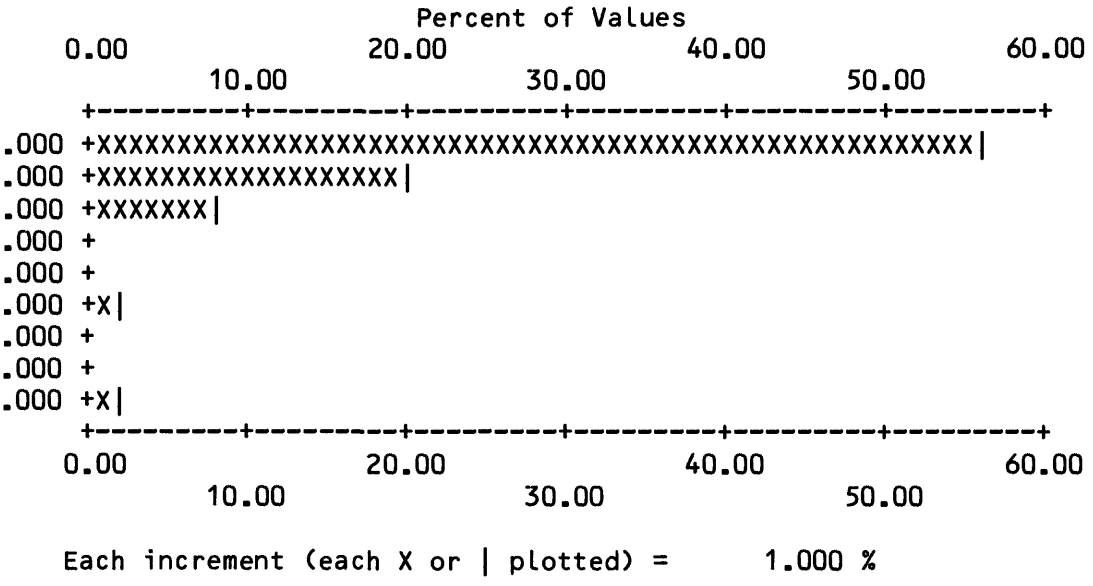


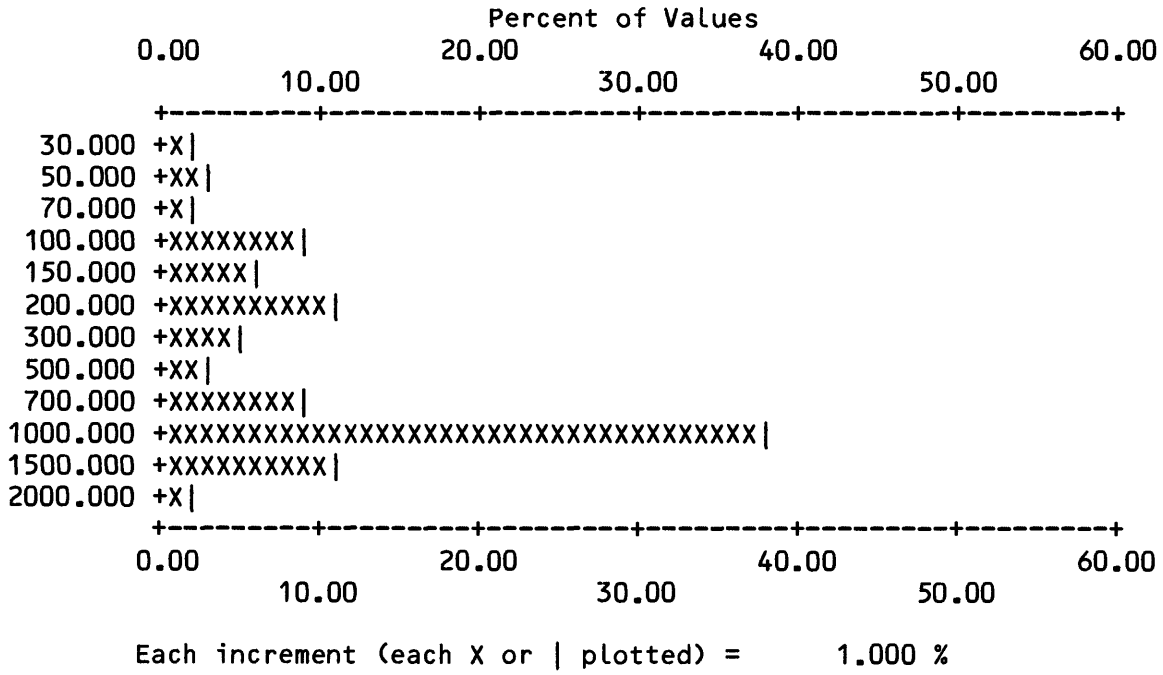
Table 4. Frequency tables and histograms for rock samples - (continued)

S-BA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	30.000	1	1.56	1	1.6	98.4	1	1.6	98.4
2	50.000	2	3.13	3	4.7	95.3	3	4.7	95.3
3	70.000	1	1.56	4	6.3	93.8	4	6.3	93.8
4	100.000	6	9.38	10	15.6	84.4	10	15.6	84.4
5	150.000	4	6.25	14	21.9	78.1	14	21.9	78.1
6	200.000	7	10.94	21	32.8	67.2	21	32.8	67.2
7	300.000	3	4.69	24	37.5	62.5	24	37.5	62.5
8	500.000	2	3.13	26	40.6	59.4	26	40.6	59.4
9	700.000	6	9.38	32	50.0	50.0	32	50.0	50.0
10	1000.000	24	37.50	56	87.5	12.5	56	87.5	12.5
11	1500.000	7	10.94	63	98.4	1.6	63	98.4	1.6
12	2000.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
30.000	2000.00	709.375	499.13	469.173	2.93	64



Each increment (each X or | plotted) = 1.000 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-BE

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	1.000	18	28.13	18	28.1	71.9	22	34.4	65.6
2	1.500	10	15.63	28	43.8	56.3	32	50.0	50.0
3	2.000	19	29.69	47	73.4	26.6	51	79.7	20.3
4	3.000	11	17.19	58	90.6	9.4	62	96.9	3.1
5	5.000	1	1.56	59	92.2	7.8	63	98.4	1.6
6	10.000	1	1.56	60	93.8	6.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	1	3	0	0	60	64	64	VALUES
0.0	0.0	0.0	1.6	4.7	0.0	0.0	93.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1.000	10.00	1.983	1.33	1.740	1.61	60

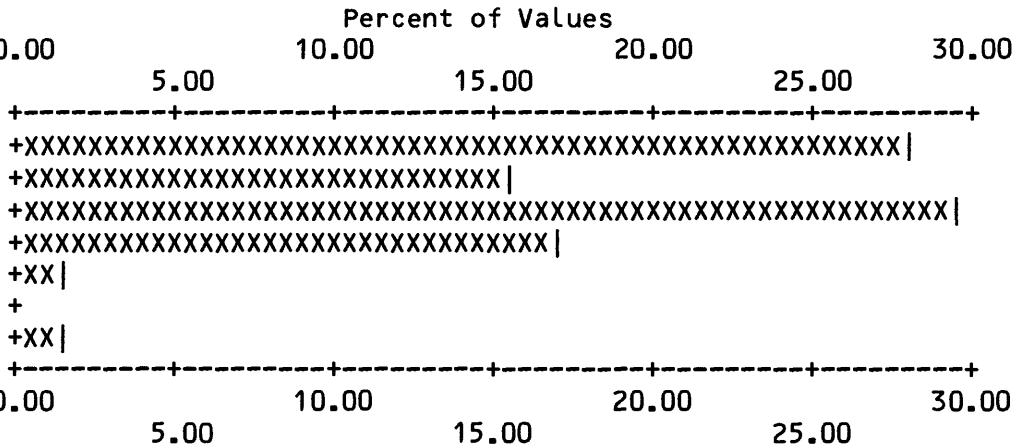


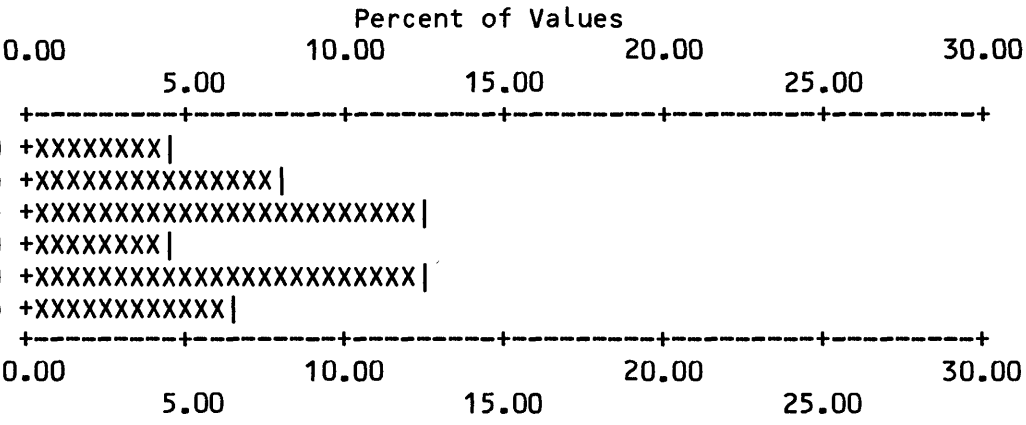
Table 4. Frequency tables and histograms for rock samples - (continued)

S-CO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	3	4.69	3	4.7	95.3	36	56.3	43.8
2	7.000	5	7.81	8	12.5	87.5	41	64.1	35.9
3	10.000	8	12.50	16	25.0	75.0	49	76.6	23.4
4	15.000	3	4.69	19	29.7	70.3	52	81.3	18.8
5	20.000	8	12.50	27	42.2	57.8	60	93.8	6.3
6	30.000	4	6.25	31	48.4	51.6	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	30	3	0	0	31	64	64	VALUES
0.0	0.0	0.0	46.9	4.7	0.0	0.0	48.4			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	30.00	14.677	7.99	12.652	1.76	31



Each increment (each X or | plotted) = 0.500 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-CR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	4	6.25	4	6.3	93.8	50	78.1	21.9
2	15.000	6	9.38	10	15.6	84.4	56	87.5	12.5
3	20.000	3	4.69	13	20.3	79.7	59	92.2	7.8
4	30.000	1	1.56	14	21.9	78.1	60	93.8	6.3
5	70.000	2	3.13	16	25.0	75.0	62	96.9	3.1
6	100.000	1	1.56	17	26.6	73.4	63	98.4	1.6
7	150.000	1	1.56	18	28.1	71.9	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	42	4	0	0	18	64	64	VALUES
0.0	0.0	0.0	65.6	6.3	0.0	0.0	28.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	150.00	33.889	38.71	22.396	2.33	18

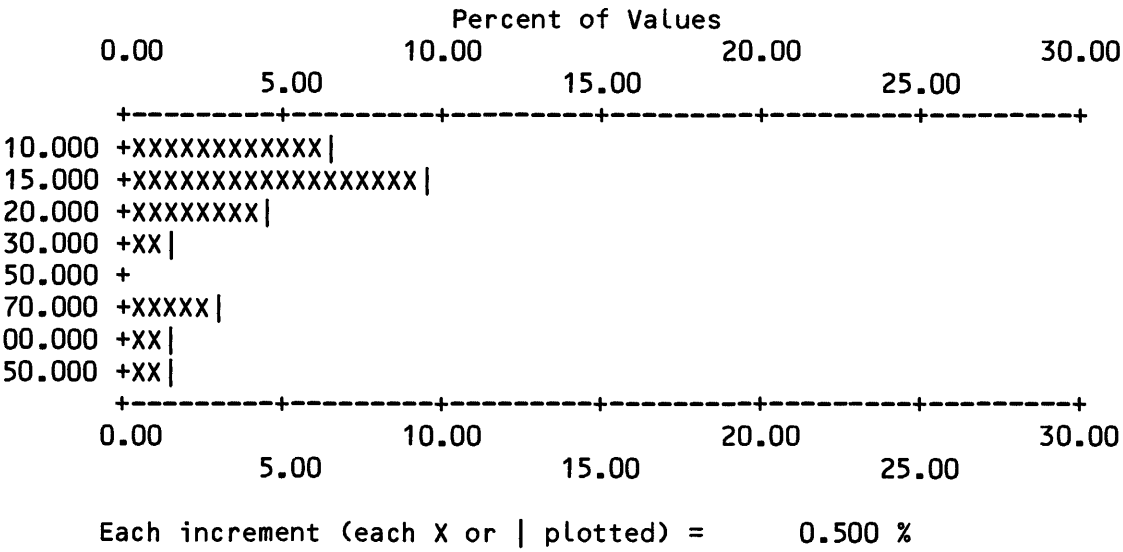


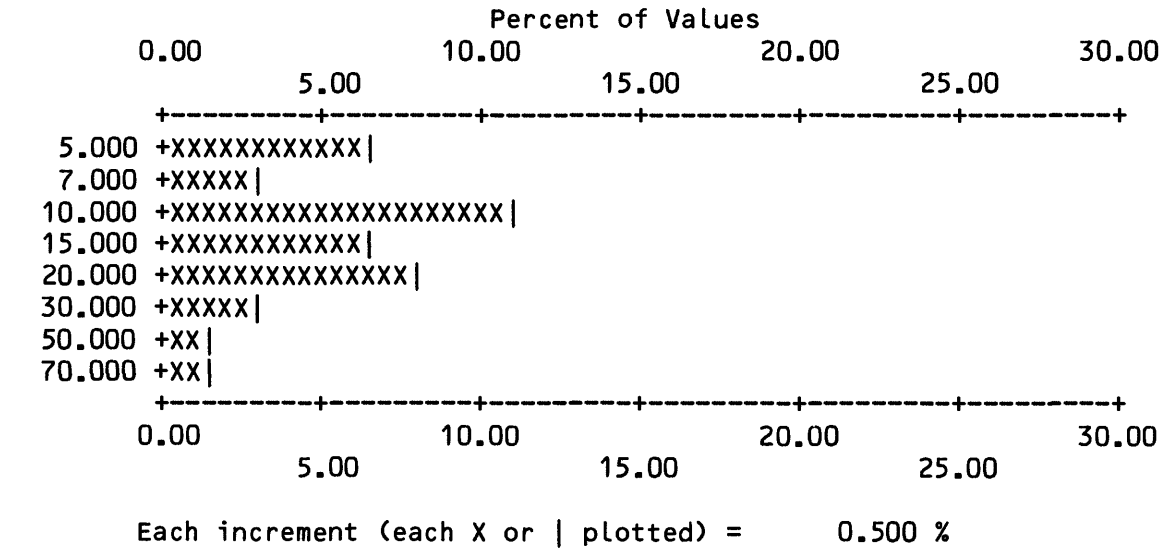
Table 4. Frequency tables and histograms for rock samples - (continued)

S-CU

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	4	6.25	4	6.3	93.8	42	65.6	34.4
2	7.000	2	3.13	6	9.4	90.6	44	68.8	31.3
3	10.000	7	10.94	13	20.3	79.7	51	79.7	20.3
4	15.000	4	6.25	17	26.6	73.4	55	85.9	14.1
5	20.000	5	7.81	22	34.4	65.6	60	93.8	6.3
6	30.000	2	3.13	24	37.5	62.5	62	96.9	3.1
7	50.000	1	1.56	25	39.1	60.9	63	98.4	1.6
8	70.000	1	1.56	26	40.6	59.4	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	25	13	0	0	26	64	64	VALUES
0.0	0.0	0.0	39.1	20.3	0.0	0.0	40.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	70.00	17.077	14.72	13.269	2.00	26



Each increment (each X or | plotted) = 0.500 %

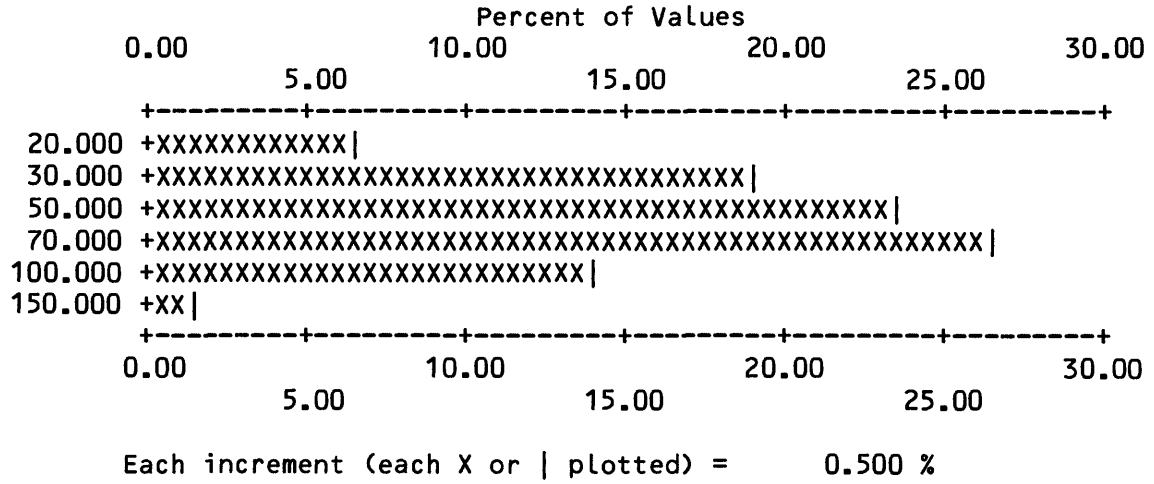
Table 4. Frequency tables and histograms for rock samples - (continued)

S-LA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	4	6.25	4	6.3	93.8	10	15.6	84.4
2	30.000	12	18.75	16	25.0	75.0	22	34.4	65.6
3	50.000	15	23.44	31	48.4	51.6	37	57.8	42.2
4	70.000	17	26.56	48	75.0	25.0	54	84.4	15.6
5	100.000	9	14.06	57	89.1	10.9	63	98.4	1.6
6	150.000	1	1.56	58	90.6	9.4	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	3	3	0	0	58	64	64	VALUES
0.0	0.0	0.0	4.7	4.7	0.0	0.0	90.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	150.00	59.138	27.42	52.893	1.63	58



Each increment (each X or | plotted) = 0.500 %

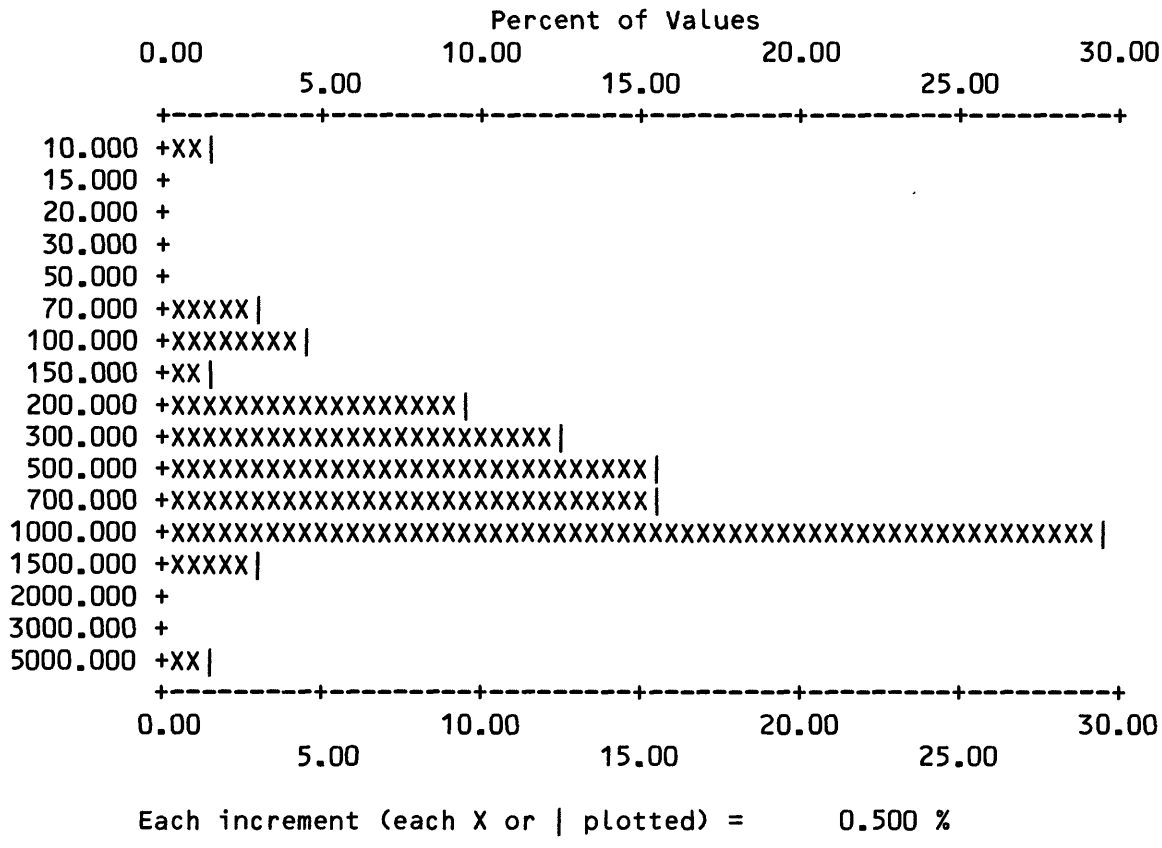
Table 4. Frequency tables and histograms for rock samples - (continued)

S-MN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	1	1.56	1	1.6	98.4	1	1.6	98.4
2	70.000	2	3.13	3	4.7	95.3	3	4.7	95.3
3	100.000	3	4.69	6	9.4	90.6	6	9.4	90.6
4	150.000	1	1.56	7	10.9	89.1	7	10.9	89.1
5	200.000	6	9.38	13	20.3	79.7	13	20.3	79.7
6	300.000	8	12.50	21	32.8	67.2	21	32.8	67.2
7	500.000	10	15.63	31	48.4	51.6	31	48.4	51.6
8	700.000	10	15.63	41	64.1	35.9	41	64.1	35.9
9	1000.000	19	29.69	60	93.8	6.3	60	93.8	6.3
10	1500.000	2	3.13	62	96.9	3.1	62	96.9	3.1
11	5000.000	1	1.56	63	98.4	1.6	63	98.4	1.6

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	1	0	63	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	1.6	0.0	98.4			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	5000.00	685.714	663.56	481.108	2.61	63



Each increment (each X or | plotted) = 0.500 %

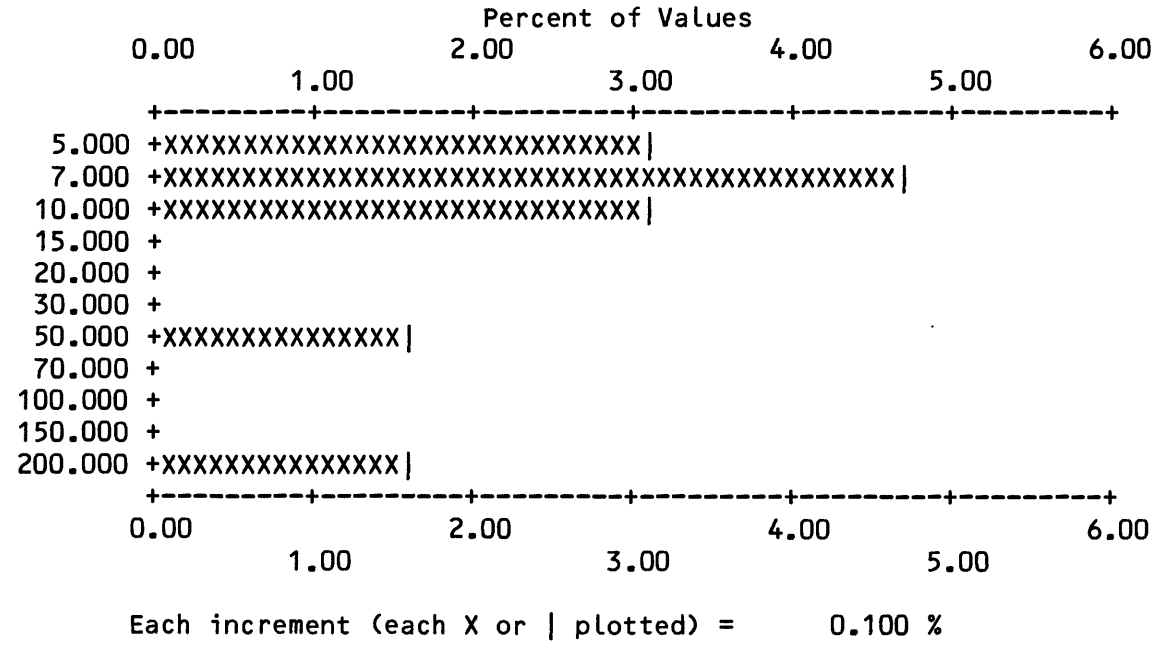
Table 4. Frequency tables and histograms for rock samples - (continued)

S-MO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	2	3.13	2	3.1	96.9	57	89.1	10.9
2	7.000	3	4.69	5	7.8	92.2	60	93.8	6.3
3	10.000	2	3.13	7	10.9	89.1	62	96.9	3.1
4	50.000	1	1.56	8	12.5	87.5	63	98.4	1.6
5	200.000	1	1.56	9	14.1	85.9	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	52	3	0	0	9	64	64	VALUES
0.0	0.0	0.0	81.3	4.7	0.0	0.0	14.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	200.00	33.444	64.06	12.697	3.47	9



Each increment (each X or | plotted) = 0.100 %

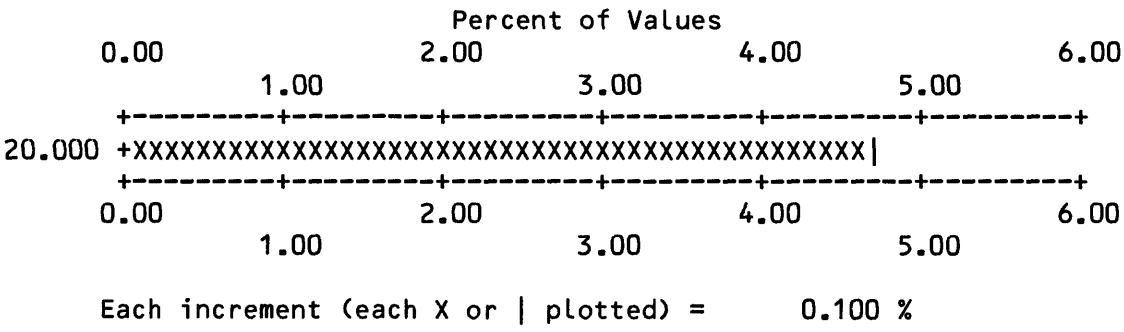
Table 4. Frequency tables and histograms for rock samples - (continued)

S-NB

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %	
1	20.000	3	4.69	3	4.7	95.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	40	21	0	0	3	64	64	VALUES
0.0	0.0	0.0	62.5	32.8	0.0	0.0	4.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	20.00	20.000	0.00	20.000	1.00	3



Each increment (each X or | plotted) = 0.100 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-NI

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	16	25.00	16	25.0	75.0	46	71.9	28.1
2	7.000	5	7.81	21	32.8	67.2	51	79.7	20.3
3	10.000	6	9.38	27	42.2	57.8	57	89.1	10.9
4	15.000	4	6.25	31	48.4	51.6	61	95.3	4.7
5	20.000	1	1.56	32	50.0	50.0	62	96.9	3.1
6	30.000	2	3.13	34	53.1	46.9	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	16	14	0	0	34	64	64	VALUES
0.0	0.0	0.0	25.0	21.9	0.0	0.0	53.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	30.00	9.265	6.58	7.820	1.73	34

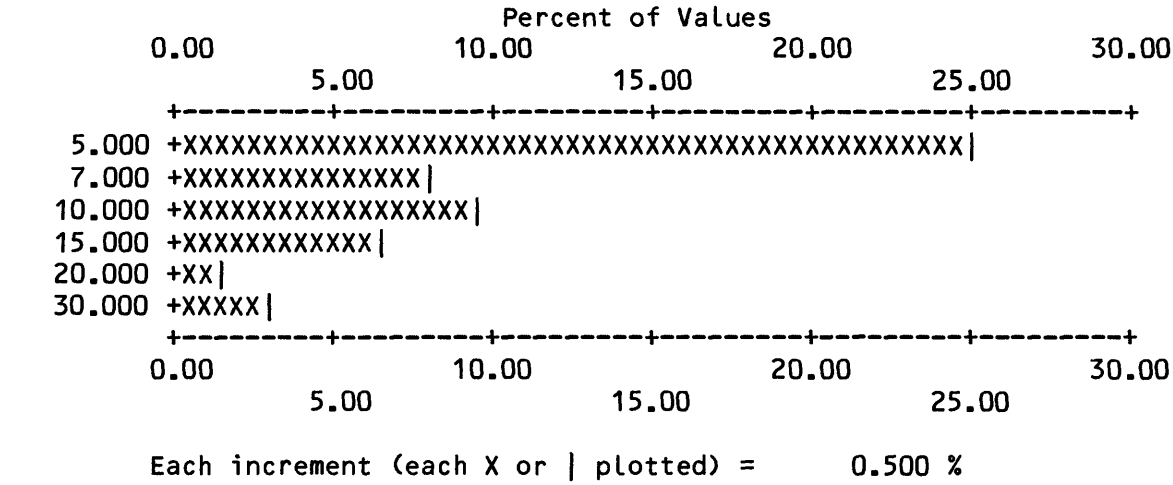


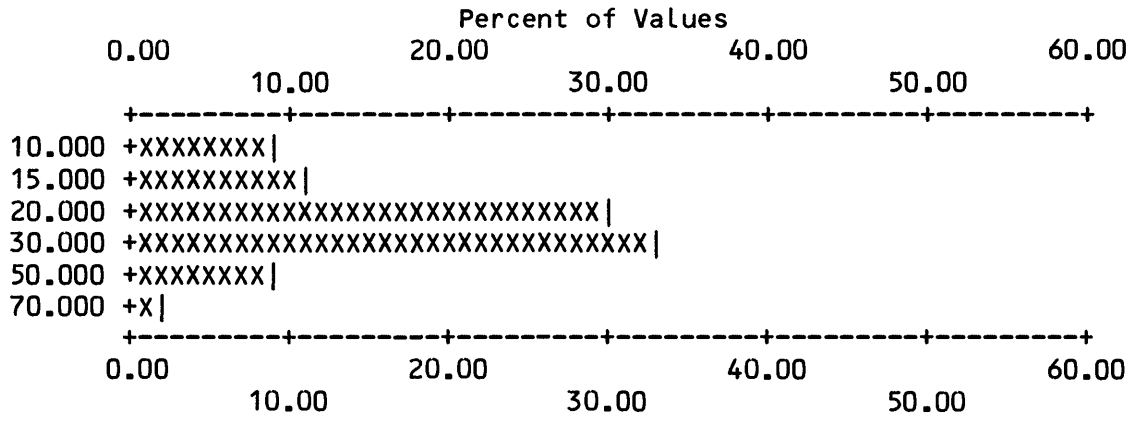
Table 4. Frequency tables and histograms for rock samples - (continued)

S-PB

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	6	9.38	6	9.4	90.6	10	15.6	84.4
2	15.000	7	10.94	13	20.3	79.7	17	26.6	73.4
3	20.000	19	29.69	32	50.0	50.0	36	56.3	43.8
4	30.000	21	32.81	53	82.8	17.2	57	89.1	10.9
5	50.000	6	9.38	59	92.2	7.8	63	98.4	1.6
6	70.000	1	1.56	60	93.8	6.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	4	0	0	60	64	64	VALUES
0.0	0.0	0.0	0.0	6.3	0.0	0.0	93.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	70.00	25.750	12.21	23.273	1.57	60



Each increment (each X or | plotted) = 1.000 %

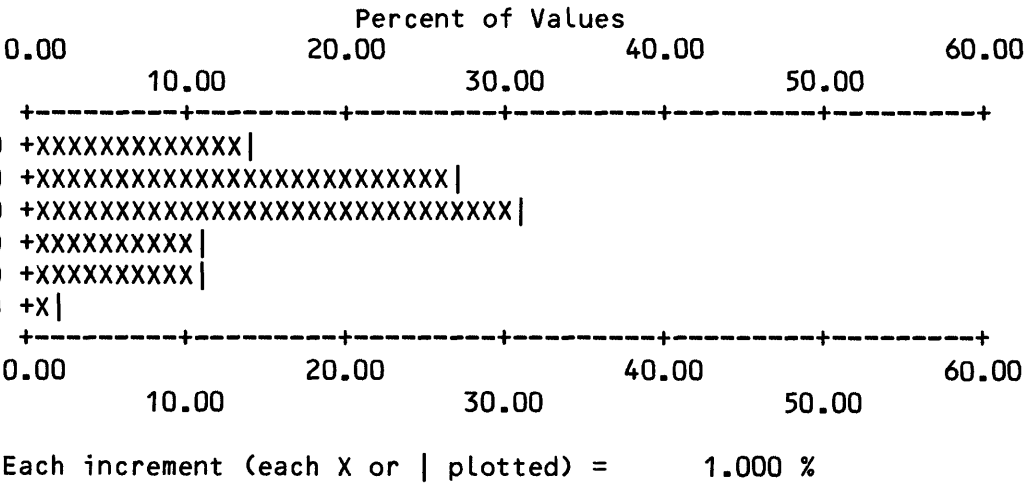
Table 4. Frequency tables and histograms for rock samples - (continued)

S-SC

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	9	14.06	9	14.1	85.9	12	18.8	81.3
2	7.000	17	26.56	26	40.6	59.4	29	45.3	54.7
3	10.000	20	31.25	46	71.9	28.1	49	76.6	23.4
4	15.000	7	10.94	53	82.8	17.2	56	87.5	12.5
5	20.000	7	10.94	60	93.8	6.3	63	98.4	1.6
6	30.000	1	1.56	61	95.3	4.7	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	1	2	0	0	61	64	64	VALUES
0.0	0.0	0.0	1.6	3.1	0.0	0.0	95.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	30.00	10.475	5.23	9.440	1.56	61



Each increment (each X or | plotted) = 1.000 %

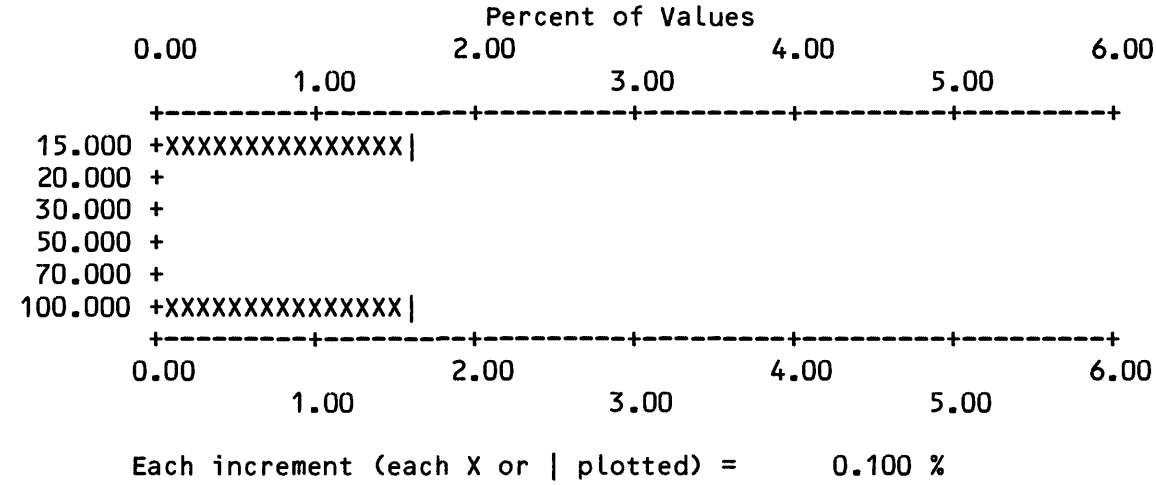
Table 4. Frequency tables and histograms for rock samples - (continued)

S-SN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	15.000	1	1.56	1	1.6	98.4	63	98.4	1.6
2	100.000	1	1.56	2	3.1	96.9	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	62	0	0	0	2	64	64	VALUES
0.0	0.0	0.0	96.9	0.0	0.0	0.0	3.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
15.000	100.00	57.500	60.10	38.730	3.82	2



Each increment (each X or | plotted) = 0.100 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-SR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	100.000	2	3.13	2	3.1	96.9	20	31.3	68.8
2	150.000	3	4.69	5	7.8	92.2	23	35.9	64.1
3	200.000	13	20.31	18	28.1	71.9	36	56.3	43.8
4	300.000	5	7.81	23	35.9	64.1	41	64.1	35.9
5	500.000	15	23.44	38	59.4	40.6	56	87.5	12.5
6	700.000	7	10.94	45	70.3	29.7	63	98.4	1.6
7	1000.000	1	1.56	46	71.9	28.1	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	16	2	0	0	46	64	64	VALUES
0.0	0.0	0.0	25.0	3.1	0.0	0.0	71.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	1000.00	394.565	214.79	336.268	1.81	46

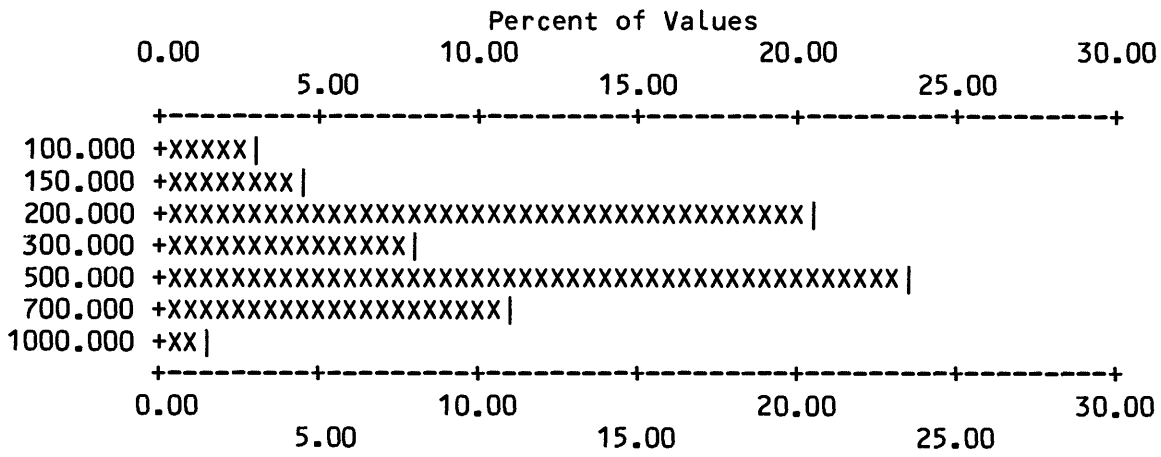


Table 4. Frequency tables and histograms for rock samples - (continued)

S-TH

NO UNQUALIFIED VALUES FOUND

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	63	1	0	0	0	64	64	VALUES
0.0	0.0	0.0	98.4	1.6	0.0	0.0	0.0			PERCENT

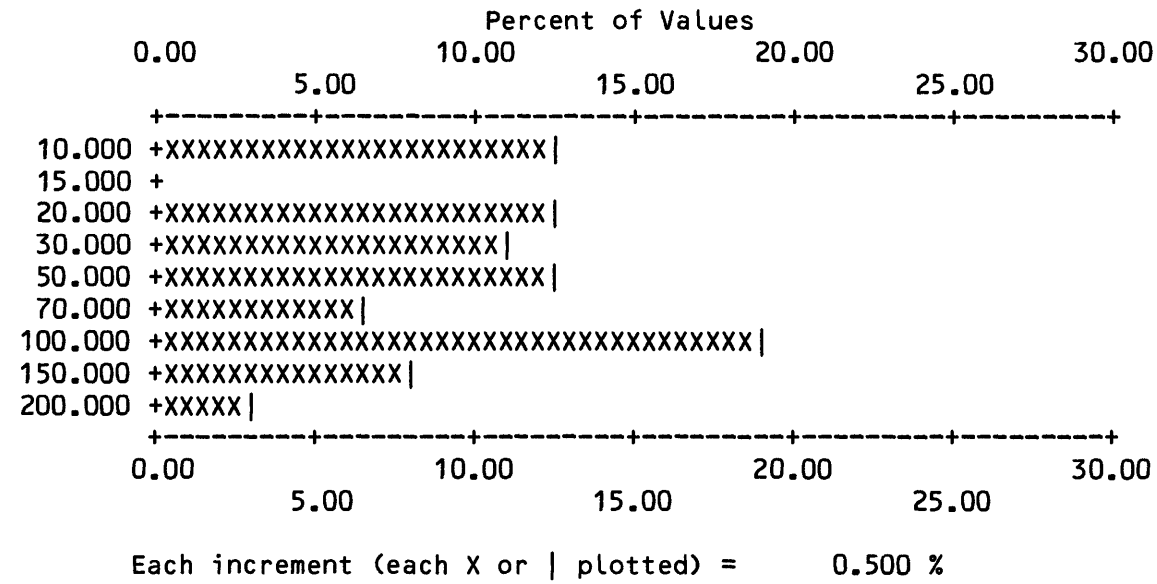
Table 4. Frequency tables and histograms for rock samples - (continued)

S-V

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	8	12.50	8	12.5	87.5	18	28.1	71.9
2	20.000	8	12.50	16	25.0	75.0	26	40.6	59.4
3	30.000	7	10.94	23	35.9	64.1	33	51.6	48.4
4	50.000	8	12.50	31	48.4	51.6	41	64.1	35.9
5	70.000	4	6.25	35	54.7	45.3	45	70.3	29.7
6	100.000	12	18.75	47	73.4	26.6	57	89.1	10.9
7	150.000	5	7.81	52	81.3	18.8	62	96.9	3.1
8	200.000	2	3.13	54	84.4	15.6	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	10	0	0	54	64	64	VALUES
0.0	0.0	0.0	0.0	15.6	0.0	0.0	84.4			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	200.00	64.444	51.05	44.865	2.51	54



Each increment (each X or | plotted) = 0.500 %

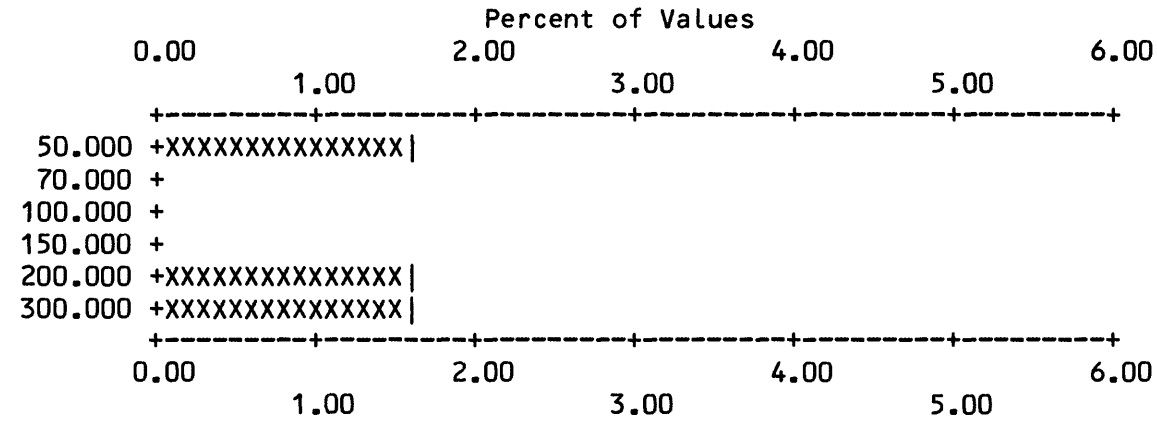
Table 4. Frequency tables and histograms for rock samples - (continued)

S-W

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	50.000	1	1.56	1	1.6	98.4	62	96.9	3.1
2	200.000	1	1.56	2	3.1	96.9	63	98.4	1.6
3	300.000	1	1.56	3	4.7	95.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	60	1	0	0	3	64	64	VALUES
0.0	0.0	0.0	93.8	1.6	0.0	0.0	4.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
50.000	300.00	183.333	125.83	144.225	2.56	3



Each increment (each X or | plotted) = 0.100 %

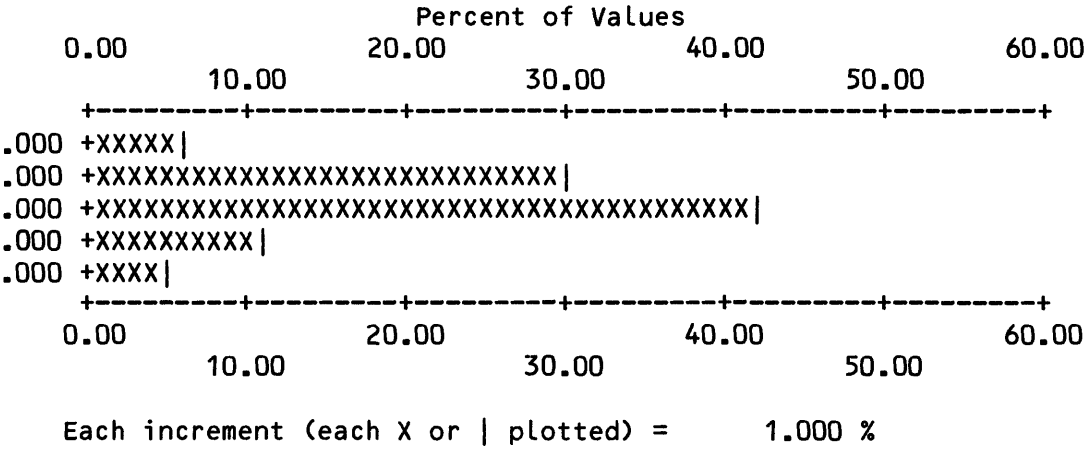
Table 4. Frequency tables and histograms for rock samples - (continued)

S-Y

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	4	6.25	4	6.3	93.8	8	12.5	87.5
2	15.000	19	29.69	23	35.9	64.1	27	42.2	57.8
3	20.000	27	42.19	50	78.1	21.9	54	84.4	15.6
4	30.000	7	10.94	57	89.1	10.9	61	95.3	4.7
5	50.000	3	4.69	60	93.8	6.3	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	4	0	0	60	64	64	VALUES
0.0	0.0	0.0	0.0	6.3	0.0	0.0	93.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	50.00	20.417	8.50	19.135	1.41	60



Each increment (each X or | plotted) = 1.000 %

Table 4. Frequency tables and histograms for rock samples - (continued)

S-ZN

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %	
1	300.000	1	1.56	1	1.6	98.4	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	54	9	0	0	1	64	64	VALUES
0.0	0.0	0.0	84.4	14.1	0.0	0.0	1.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
300.000	300.00	300.000	0.00	300.000	********	1

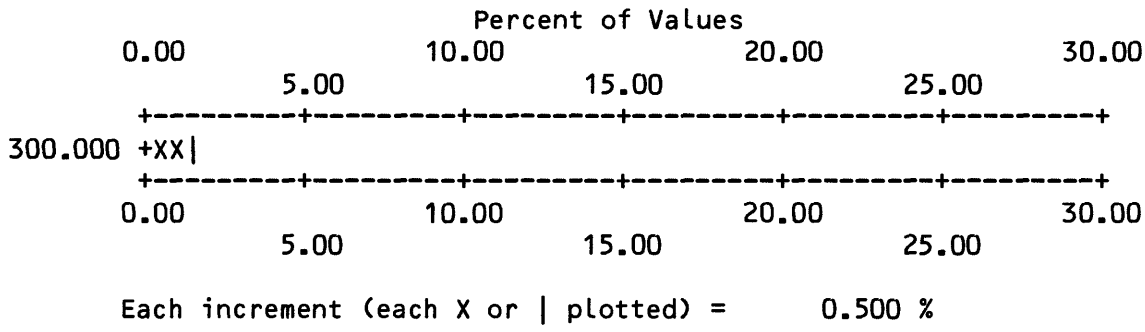


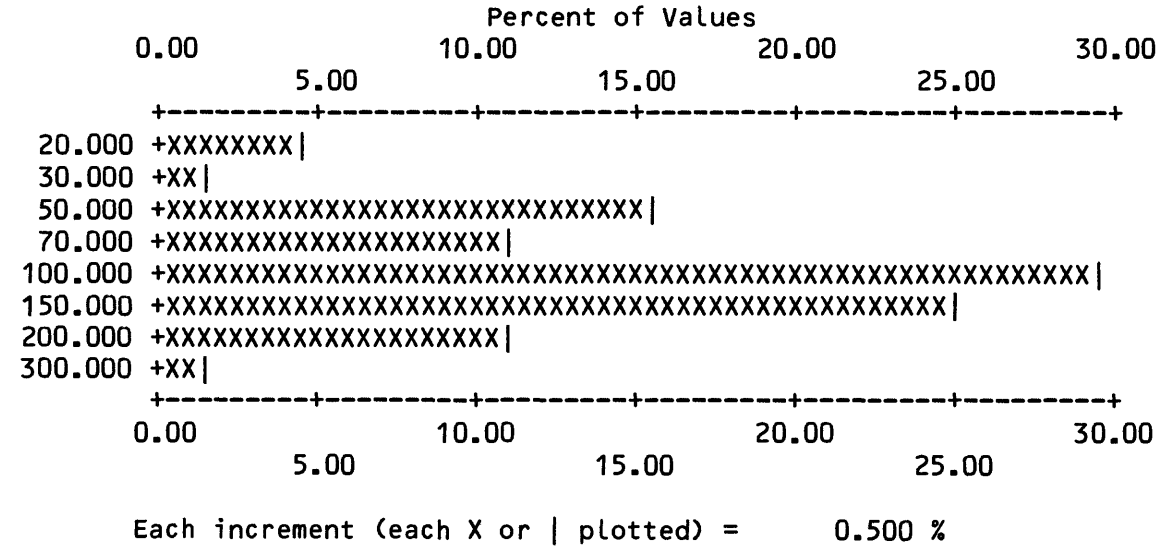
Table 4. Frequency tables and histograms for rock samples - (continued)

S-ZR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	3	4.69	3	4.7	95.3	3	4.7	95.3
2	30.000	1	1.56	4	6.3	93.8	4	6.3	93.8
3	50.000	10	15.63	14	21.9	78.1	14	21.9	78.1
4	70.000	7	10.94	21	32.8	67.2	21	32.8	67.2
5	100.000	19	29.69	40	62.5	37.5	40	62.5	37.5
6	150.000	16	25.00	56	87.5	12.5	56	87.5	12.5
7	200.000	7	10.94	63	98.4	1.6	63	98.4	1.6
8	300.000	1	1.56	64	100.0	0.0	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	64	64	64	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	300.00	110.625	56.09	95.387	1.81	64



Each increment (each X or | plotted) = 0.500 %

Table 4. Frequency tables and histograms for rock samples - (continued)

AA-AU

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.002	8	12.50	8	12.5	87.5	58	90.6	9.4
2	0.003	4	6.25	12	18.8	81.3	62	96.9	3.1
3	0.005	2	3.13	14	21.9	78.1	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	50	0	0	0	14	64	64	VALUES
0.0	0.0	0.0	78.1	0.0	0.0	0.0	21.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.002	0.01	0.003	0.00	0.003	1.40	14

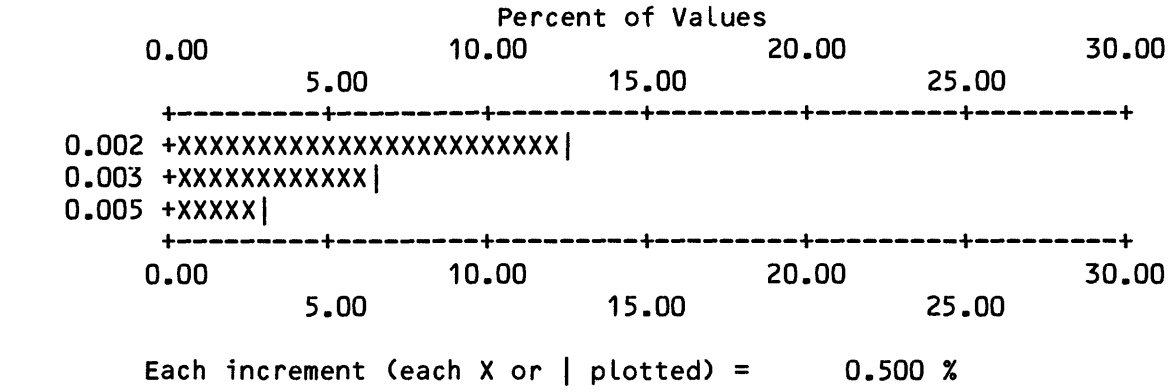


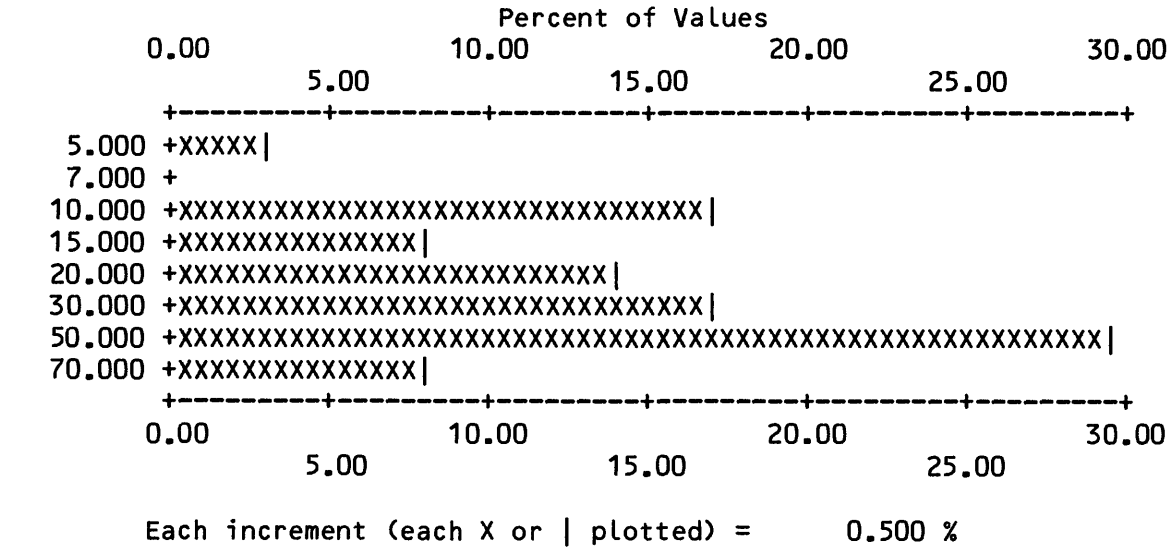
Table 4. Frequency tables and histograms for rock samples - (continued)

AA-ZN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	2	3.13	2	3.1	96.9	4	6.3	93.8
2	10.000	11	17.19	13	20.3	79.7	15	23.4	76.6
3	15.000	5	7.81	18	28.1	71.9	20	31.3	68.8
4	20.000	9	14.06	27	42.2	57.8	29	45.3	54.7
5	30.000	11	17.19	38	59.4	40.6	40	62.5	37.5
6	50.000	19	29.69	57	89.1	10.9	59	92.2	7.8
7	70.000	5	7.81	62	96.9	3.1	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	2	0	0	62	64	64	VALUES
0.0	0.0	0.0	0.0	3.1	0.0	0.0	96.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	70.00	32.339	19.39	26.013	2.04	62



Each increment (each X or | plotted) = 0.500 %

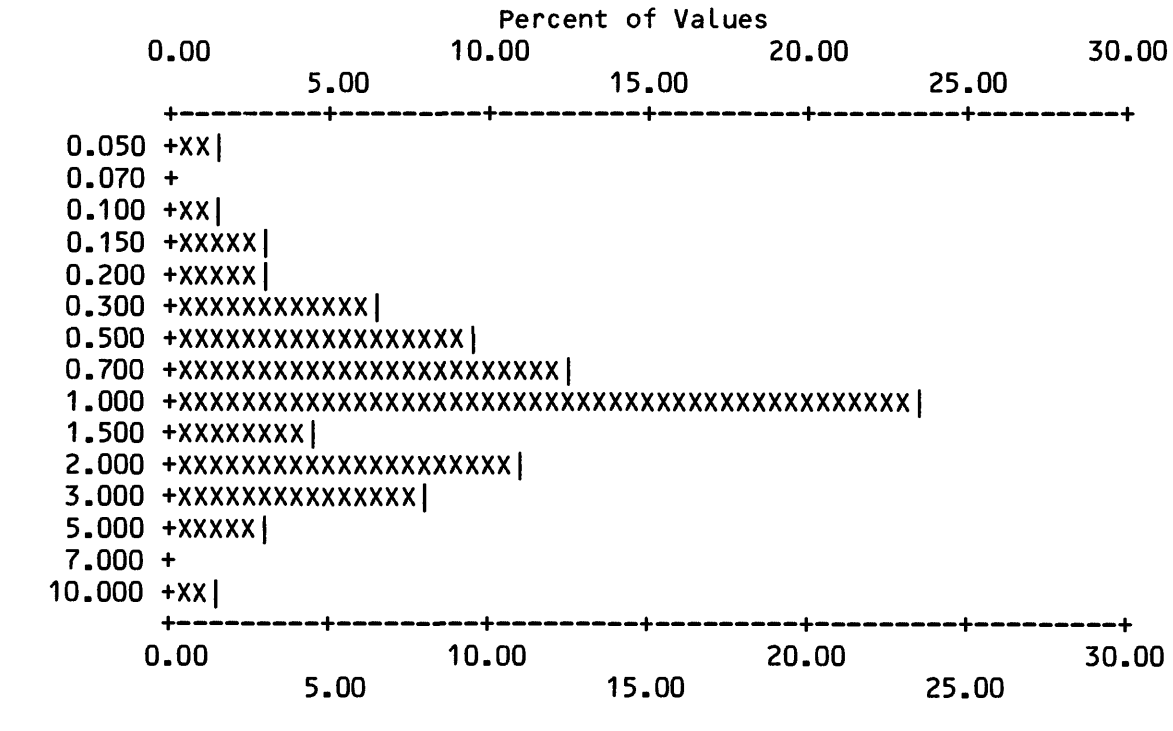
Table 4. Frequency tables and histograms for rock samples - (continued)

U-INST

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.050	1	1.56	1	1.6	98.4	8	12.5	87.5
2	0.100	1	1.56	2	3.1	96.9	9	14.1	85.9
3	0.150	2	3.13	4	6.3	93.8	11	17.2	82.8
4	0.200	2	3.13	6	9.4	90.6	13	20.3	79.7
5	0.300	4	6.25	10	15.6	84.4	17	26.6	73.4
6	0.500	6	9.38	16	25.0	75.0	23	35.9	64.1
7	0.700	8	12.50	24	37.5	62.5	31	48.4	51.6
8	1.000	15	23.44	39	60.9	39.1	46	71.9	28.1
9	1.500	3	4.69	42	65.6	34.4	49	76.6	23.4
10	2.000	7	10.94	49	76.6	23.4	56	87.5	12.5
11	3.000	5	7.81	54	84.4	15.6	61	95.3	4.7
12	5.000	2	3.13	56	87.5	12.5	63	98.4	1.6
13	10.000	1	1.56	57	89.1	10.9	64	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	7	0	0	0	57	64	64	VALUES
0.0	0.0	0.0	10.9	0.0	0.0	0.0	89.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.050	10.00	1.389	1.59	0.884	2.71	57



Each increment (each X or | plotted) = 0.500 %

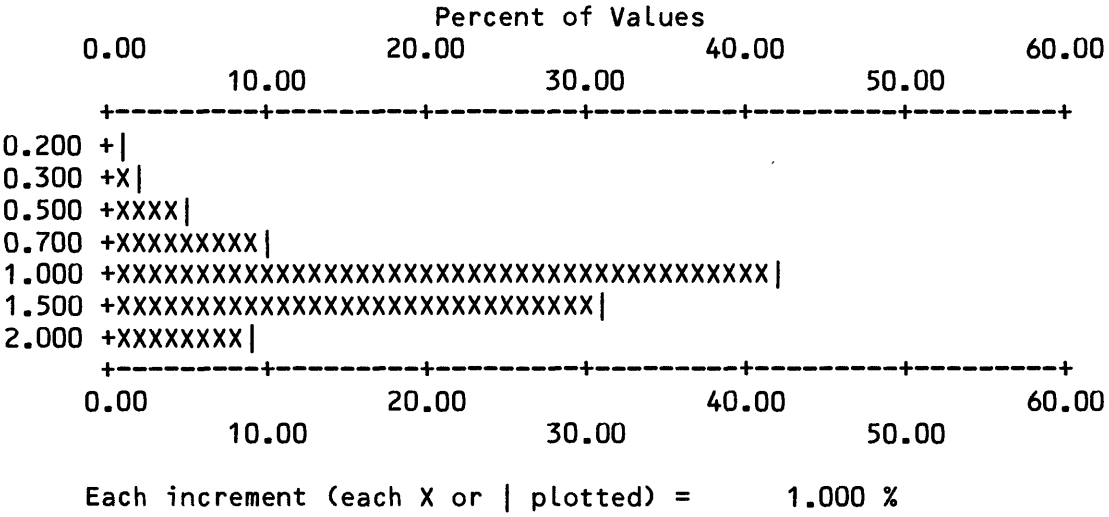
Table 5. Frequency tables and histograms for stream-sediment samples

S-CA%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.200	1	1.10	1	1.1	98.9	1	1.1	98.9
2	0.300	2	2.20	3	3.3	96.7	3	3.3	96.7
3	0.500	5	5.49	8	8.8	91.2	8	8.8	91.2
4	0.700	9	9.89	17	18.7	81.3	17	18.7	81.3
5	1.000	38	41.76	55	60.4	39.6	55	60.4	39.6
6	1.500	28	30.77	83	91.2	8.8	83	91.2	8.8
7	2.000	8	8.79	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.200	2.00	1.160	0.43	1.071	1.55	91



Each increment (each X or | plotted) = 1.000 %

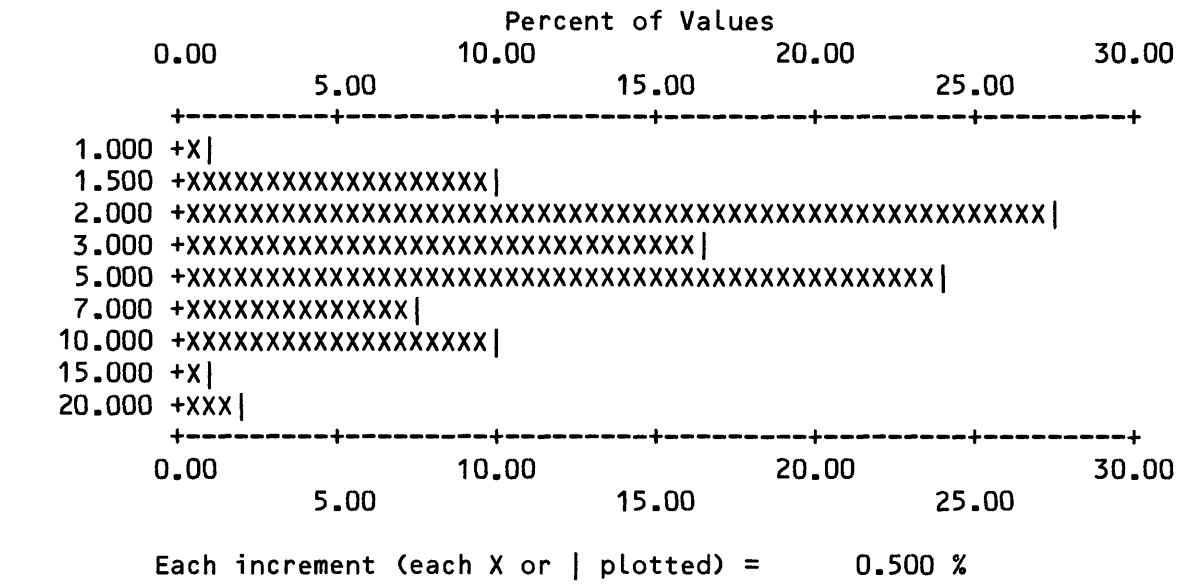
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-FE%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	1.000	1	1.10	1	1.1	98.9	1	1.1	98.9
2	1.500	9	9.89	10	11.0	89.0	10	11.0	89.0
3	2.000	25	27.47	35	38.5	61.5	35	38.5	61.5
4	3.000	15	16.48	50	54.9	45.1	50	54.9	45.1
5	5.000	22	24.18	72	79.1	20.9	72	79.1	20.9
6	7.000	7	7.69	79	86.8	13.2	79	86.8	13.2
7	10.000	9	9.89	88	96.7	3.3	88	96.7	3.3
8	15.000	1	1.10	89	97.8	2.2	89	97.8	2.2
9	20.000	2	2.20	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1.000	20.00	4.544	3.64	3.574	1.96	91



Each increment (each X or | plotted) = 0.500 %

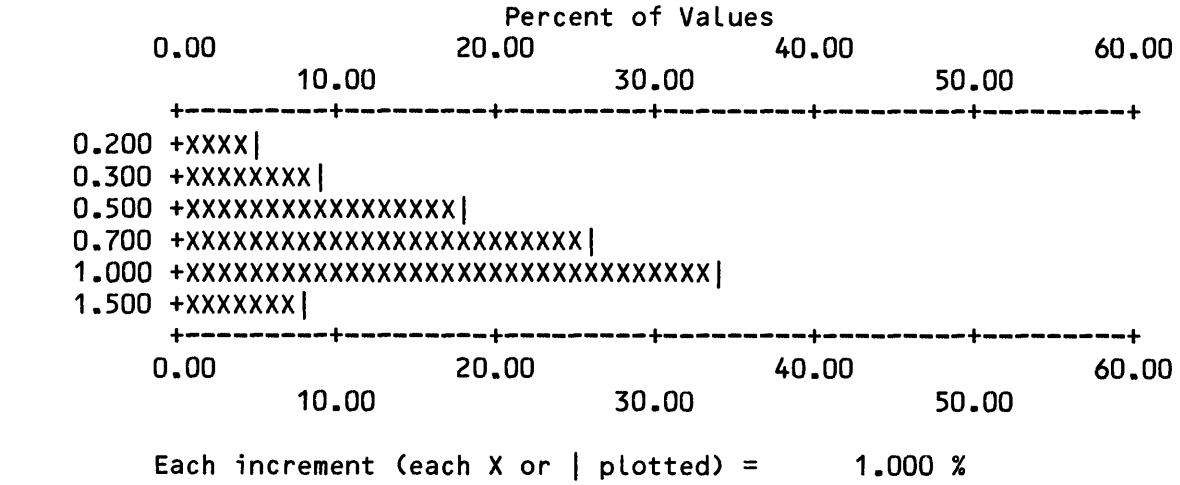
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-MG%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.200	5	5.49	5	5.5	94.5	5	5.5	94.5
2	0.300	8	8.79	13	14.3	85.7	13	14.3	85.7
3	0.500	16	17.58	29	31.9	68.1	29	31.9	68.1
4	0.700	24	26.37	53	58.2	41.8	53	58.2	41.8
5	1.000	31	34.07	84	92.3	7.7	84	92.3	7.7
6	1.500	7	7.69	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.200	1.50	0.766	0.33	0.685	1.66	91



Each increment (each X or | plotted) = 1.000 %

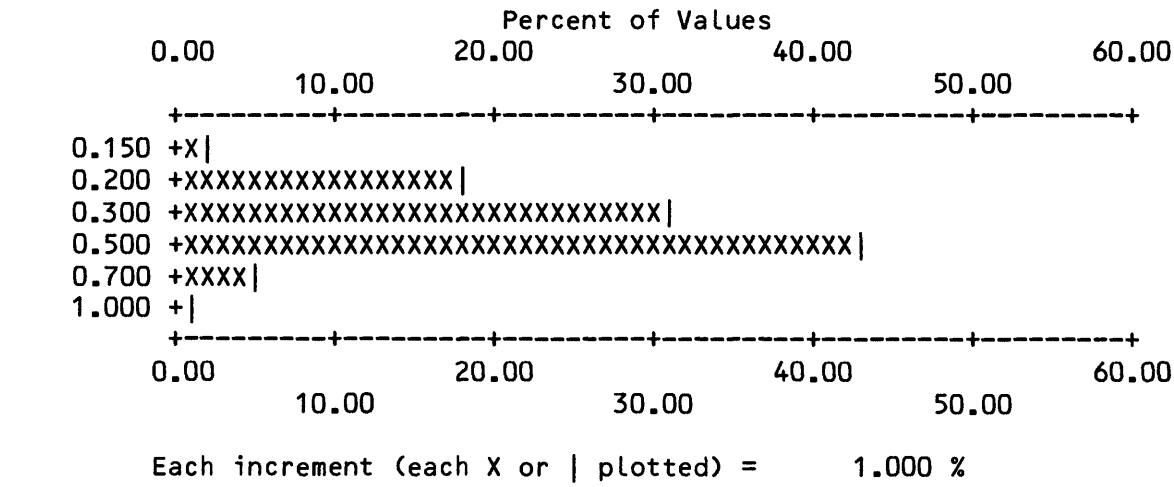
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-TI%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.150	2	2.20	2	2.2	97.8	2	2.2	97.8
2	0.200	16	17.58	18	19.8	80.2	18	19.8	80.2
3	0.300	28	30.77	46	50.5	49.5	46	50.5	49.5
4	0.500	39	42.86	85	93.4	6.6	85	93.4	6.6
5	0.700	5	5.49	90	98.9	1.1	90	98.9	1.1
6	1.000	1	1.10	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.150	1.00	0.395	0.16	0.364	1.51	91



Each increment (each X or | plotted) = 1.000 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-AG

NO UNQUALIFIED VALUES FOUND

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	88	3	0	0	0	91	91	VALUES
0.0	0.0	0.0	96.7	3.3	0.0	0.0	0.0			PERCENT

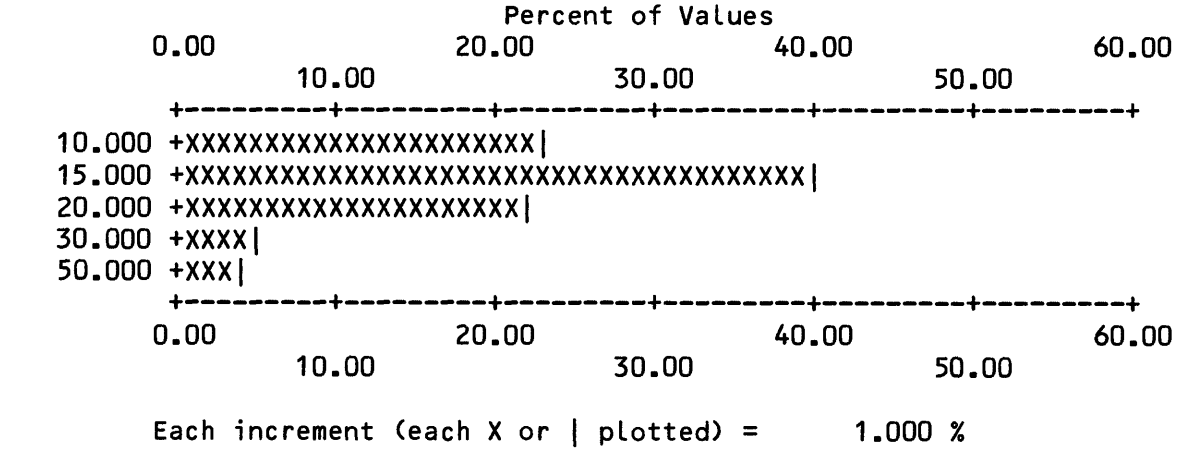
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-B

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	21	23.08	21	23.1	76.9	26	28.6	71.4
2	15.000	36	39.56	57	62.6	37.4	62	68.1	31.9
3	20.000	20	21.98	77	84.6	15.4	82	90.1	9.9
4	30.000	5	5.49	82	90.1	9.9	87	95.6	4.4
5	50.000	4	4.40	86	94.5	5.5	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	5	0	0	86	91	91	VALUES
0.0	0.0	0.0	0.0	5.5	0.0	0.0	94.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	50.00	17.442	8.77	15.994	1.48	86



Each increment (each X or | plotted) = 1.000 %

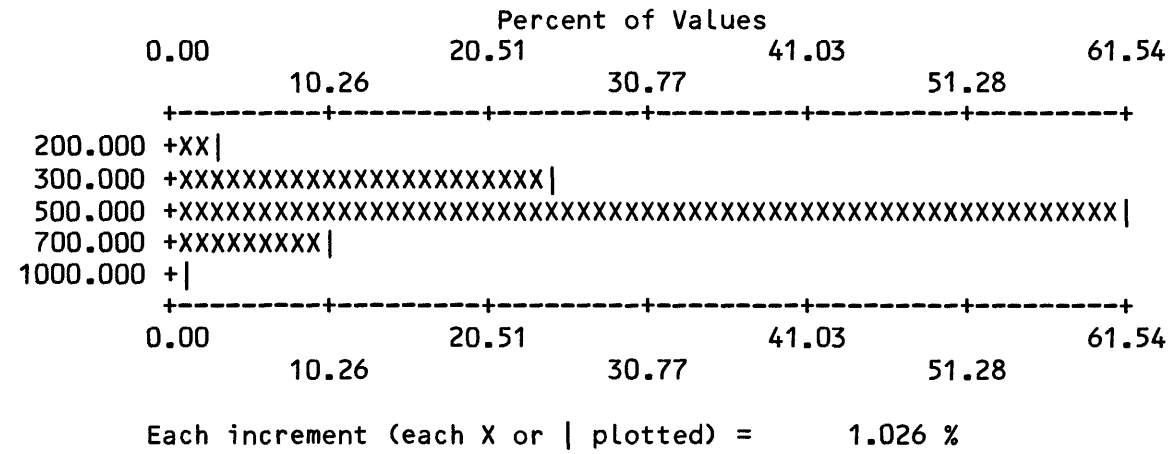
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-BA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	200.000	3	3.30	3	3.3	96.7	3	3.3	96.7
2	300.000	22	24.18	25	27.5	72.5	25	27.5	72.5
3	500.000	56	61.54	81	89.0	11.0	81	89.0	11.0
4	700.000	9	9.89	90	98.9	1.1	90	98.9	1.1
5	1000.000	1	1.10	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
200.000	1000.00	467.033	135.86	446.661	1.36	91



Each increment (each X or | plotted) = 1.026 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-BE

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	1.000	43	47.25	43	47.3	52.7	47	51.6	48.4
2	1.500	29	31.87	72	79.1	20.9	76	83.5	16.5
3	2.000	13	14.29	85	93.4	6.6	89	97.8	2.2
4	3.000	2	2.20	87	95.6	4.4	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	4	0	0	87	91	91	VALUES
0.0	0.0	0.0	0.0	4.4	0.0	0.0	95.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1.000	3.00	1.362	0.44	1.302	1.34	87

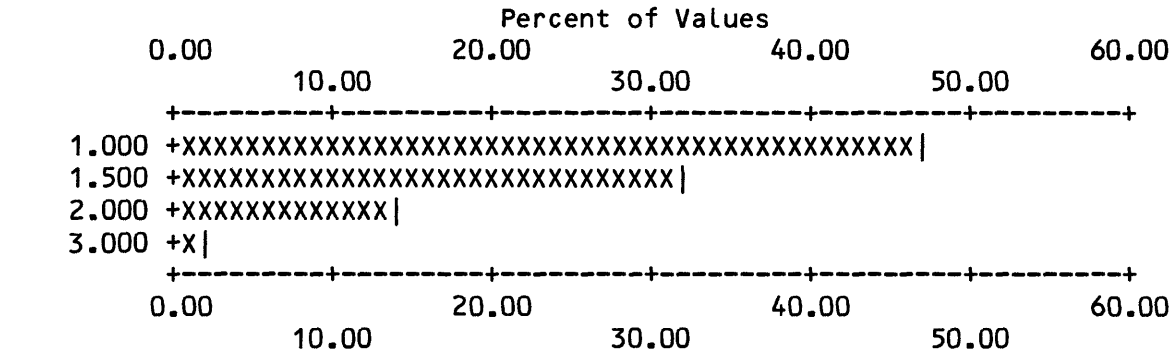


Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-BI

NO UNQUALIFIED VALUES FOUND

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	88	3	0	0	0	91	91	VALUES
0.0	0.0	0.0	96.7	3.3	0.0	0.0	0.0			PERCENT

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-CD

NO UNQUALIFIED VALUES FOUND

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	90	1	0	0	0	91	91	VALUES
0.0	0.0	0.0	98.9	1.1	0.0	0.0	0.0			PERCENT

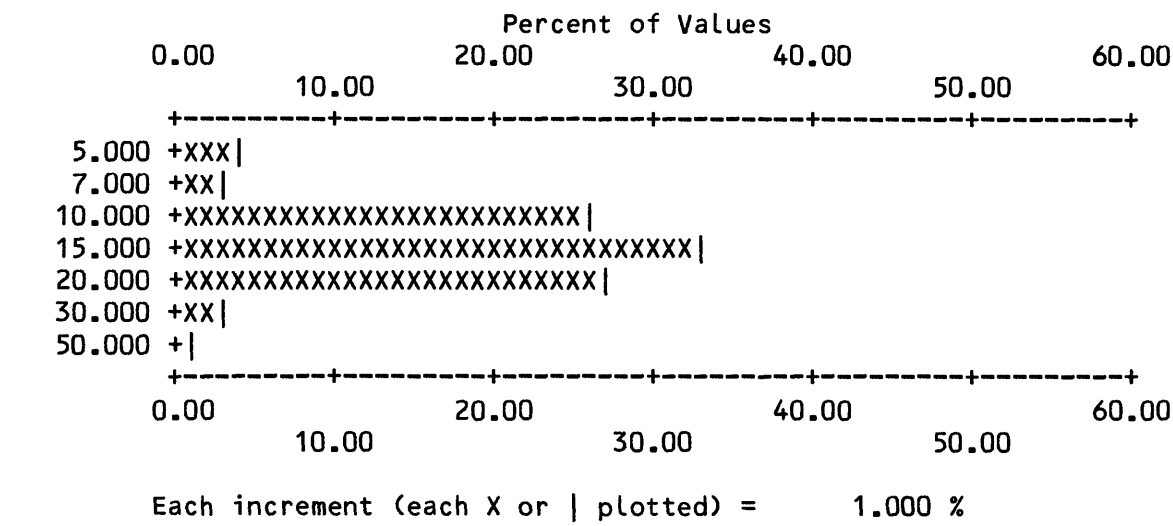
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-CO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	4	4.40	4	4.4	95.6	5	5.5	94.5
2	7.000	3	3.30	7	7.7	92.3	8	8.8	91.2
3	10.000	24	26.37	31	34.1	65.9	32	35.2	64.8
4	15.000	30	32.97	61	67.0	33.0	62	68.1	31.9
5	20.000	25	27.47	86	94.5	5.5	87	95.6	4.4
6	30.000	3	3.30	89	97.8	2.2	90	98.9	1.1
7	50.000	1	1.10	90	98.9	1.1	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	1	0	0	0	90	91	91	VALUES
0.0	0.0	0.0	1.1	0.0	0.0	0.0	98.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	50.00	15.233	6.46	14.042	1.51	90



Each increment (each X or | plotted) = 1.000 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-CR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	6	6.59	6	6.6	93.4	11	12.1	87.9
2	15.000	7	7.69	13	14.3	85.7	18	19.8	80.2
3	20.000	20	21.98	33	36.3	63.7	38	41.8	58.2
4	30.000	22	24.18	55	60.4	39.6	60	65.9	34.1
5	50.000	19	20.88	74	81.3	18.7	79	86.8	13.2
6	70.000	10	10.99	84	92.3	7.7	89	97.8	2.2
7	100.000	1	1.10	85	93.4	6.6	90	98.9	1.1
8	200.000	1	1.10	86	94.5	5.5	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	3	2	0	0	86	91	91	VALUES
0.0	0.0	0.0	3.3	2.2	0.0	0.0	94.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	200.00	36.919	26.40	30.608	1.83	86

```
                          Percent of Values
       0.00               10.00               20.00               30.00
                5.00               15.00               25.00
         +---------+---------+---------+---------+---------+---------+
 10.000 +XXXXXXXXXXX|
 15.000 +XXXXXXXXXXXXX|
 20.000 +XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX|
 30.000 +XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX|
 50.000 +XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX|
 70.000 +XXXXXXXXXXXXXXXXXXX|
100.000 +X|
150.000 +
200.000 +X|
         +---------+---------+---------+---------+---------+---------+
       0.00               10.00               20.00               30.00
                5.00               15.00               25.00

                    ach X or | plotted) =      0.500 %
```

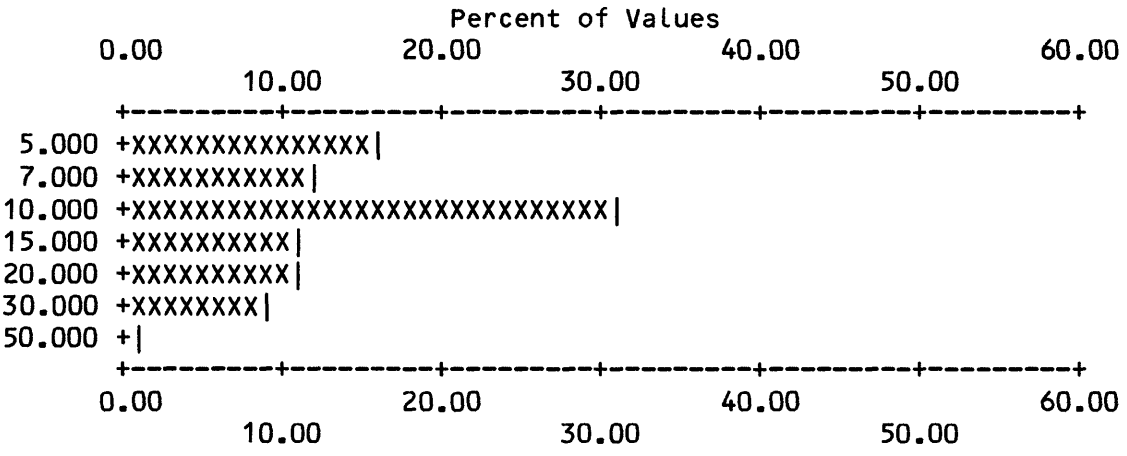
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-CU

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	15	16.48	15	16.5	83.5	23	25.3	74.7
2	7.000	11	12.09	26	28.6	71.4	34	37.4	62.6
3	10.000	28	30.77	54	59.3	40.7	62	68.1	31.9
4	15.000	10	10.99	64	70.3	29.7	72	79.1	20.9
5	20.000	10	10.99	74	81.3	18.7	82	90.1	9.9
6	30.000	8	8.79	82	90.1	9.9	90	98.9	1.1
7	50.000	1	1.10	83	91.2	8.8	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	8	0	0	83	91	91	VALUES
0.0	0.0	0.0	0.0	8.8	0.0	0.0	91.2			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	50.00	12.916	8.42	10.888	1.77	83



Each increment (each X or | plotted) = 1.000 %

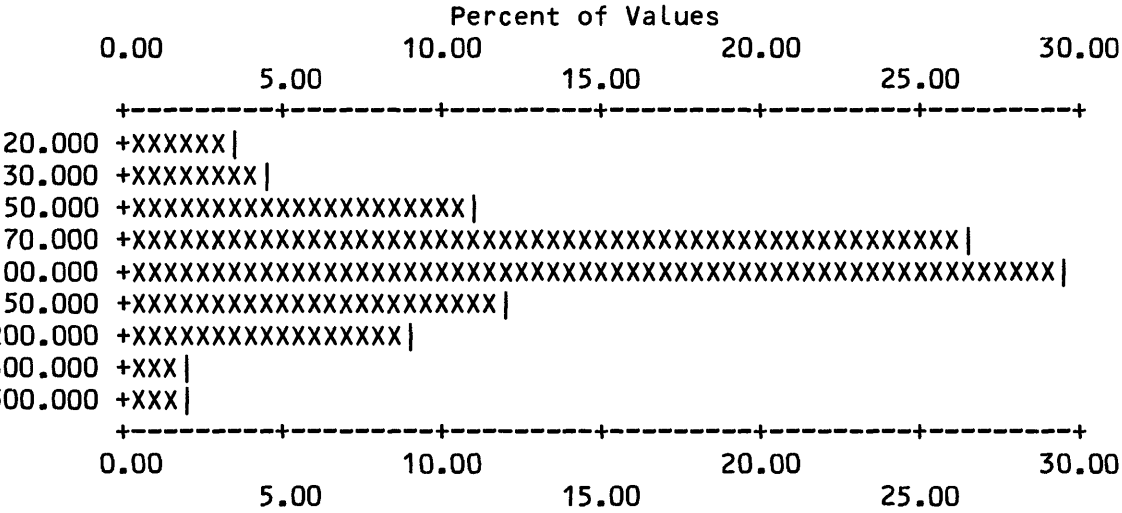
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-LA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	3	3.30	3	3.3	96.7	3	3.3	96.7
2	30.000	4	4.40	7	7.7	92.3	7	7.7	92.3
3	50.000	10	10.99	17	18.7	81.3	17	18.7	81.3
4	70.000	24	26.37	41	45.1	54.9	41	45.1	54.9
5	100.000	27	29.67	68	74.7	25.3	68	74.7	25.3
6	150.000	11	12.09	79	86.8	13.2	79	86.8	13.2
7	200.000	8	8.79	87	95.6	4.4	87	95.6	4.4
8	300.000	2	2.20	89	97.8	2.2	89	97.8	2.2
9	500.000	2	2.20	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	500.00	108.901	80.67	89.875	1.84	91



Each increment (each X or | plotted) = 0.500 %

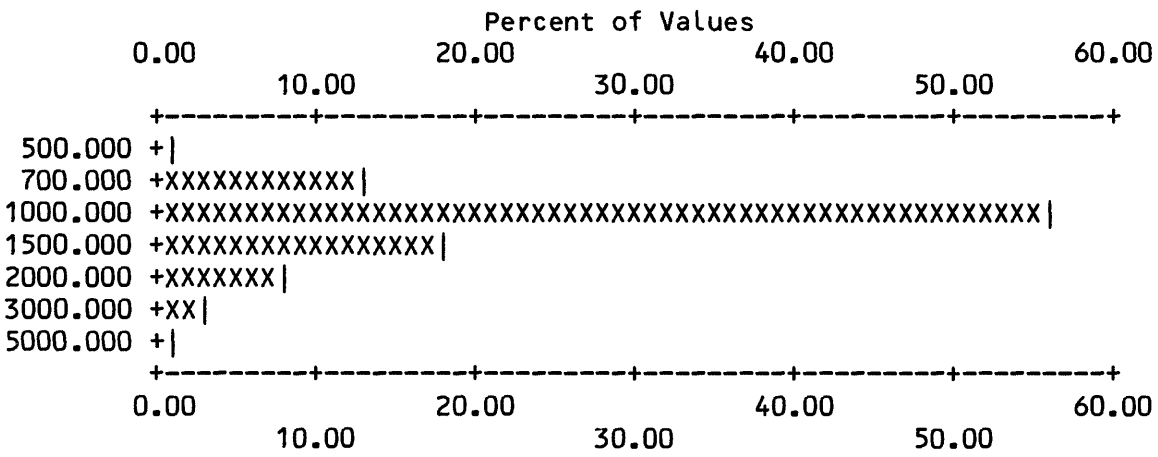
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-MN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	500.000	1	1.10	1	1.1	98.9	1	1.1	98.9
2	700.000	12	13.19	13	14.3	85.7	13	14.3	85.7
3	1000.000	51	56.04	64	70.3	29.7	64	70.3	29.7
4	1500.000	16	17.58	80	87.9	12.1	80	87.9	12.1
5	2000.000	7	7.69	87	95.6	4.4	87	95.6	4.4
6	3000.000	3	3.30	90	98.9	1.1	90	98.9	1.1
7	5000.000	1	1.10	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
500.000	5000.00	1229.670	628.31	1131.860	1.46	91



Each increment (each X or | plotted) = 1.000 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-MO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	14	15.38	14	15.4	84.6	78	85.7	14.3
2	7.000	6	6.59	20	22.0	78.0	84	92.3	7.7
3	10.000	4	4.40	24	26.4	73.6	88	96.7	3.3
4	15.000	1	1.10	25	27.5	72.5	89	97.8	2.2
5	50.000	1	1.10	26	28.6	71.4	90	98.9	1.1
6	70.000	1	1.10	27	29.7	70.3	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	44	20	0	0	27	91	91	VALUES
0.0	0.0	0.0	48.4	22.0	0.0	0.0	29.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	70.00	10.630	14.70	7.468	1.96	27

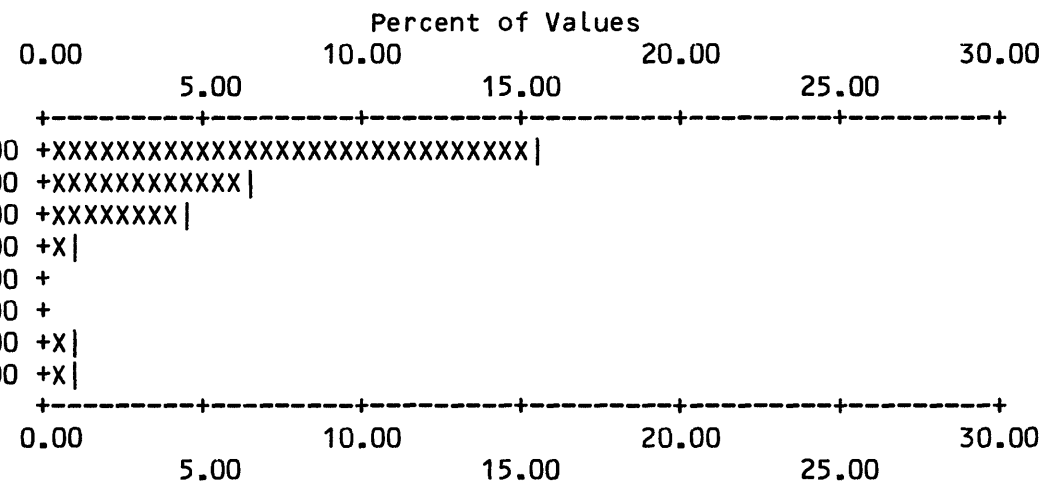


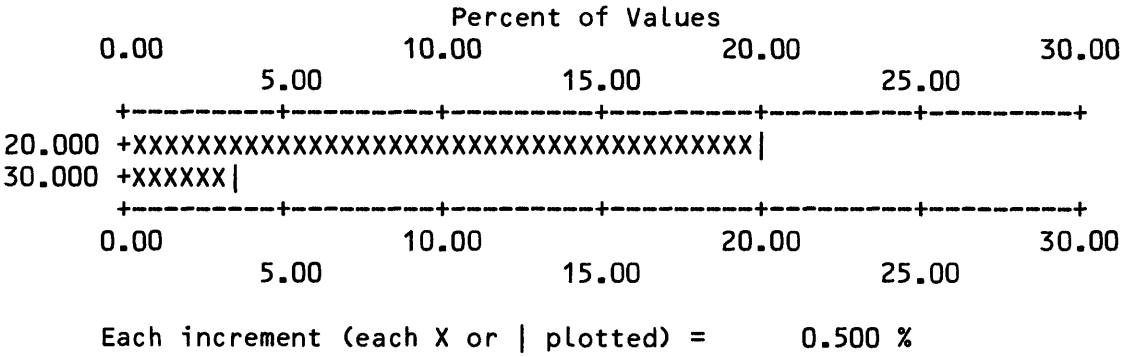
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-NB

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	18	19.78	18	19.8	80.2	88	96.7	3.3
2	30.000	3	3.30	21	23.1	76.9	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	18	52	0	0	21	91	91	VALUES
0.0	0.0	0.0	19.8	57.1	0.0	0.0	23.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	30.00	21.429	3.59	21.193	1.16	21



Each increment (each X or | plotted) = 0.500 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-NI

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	5.000	20	21.98	20	22.0	78.0	35	38.5	61.5
2	7.000	11	12.09	31	34.1	65.9	46	50.5	49.5
3	10.000	26	28.57	57	62.6	37.4	72	79.1	20.9
4	15.000	6	6.59	63	69.2	30.8	78	85.7	14.3
5	20.000	7	7.69	70	76.9	23.1	85	93.4	6.6
6	30.000	4	4.40	74	81.3	18.7	89	97.8	2.2
7	50.000	1	1.10	75	82.4	17.6	90	98.9	1.1
8	70.000	1	1.10	76	83.5	16.5	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	7	8	0	0	76	91	91	VALUES
0.0	0.0	0.0	7.7	8.8	0.0	0.0	83.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	70.00	11.934	10.31	9.670	1.81	76

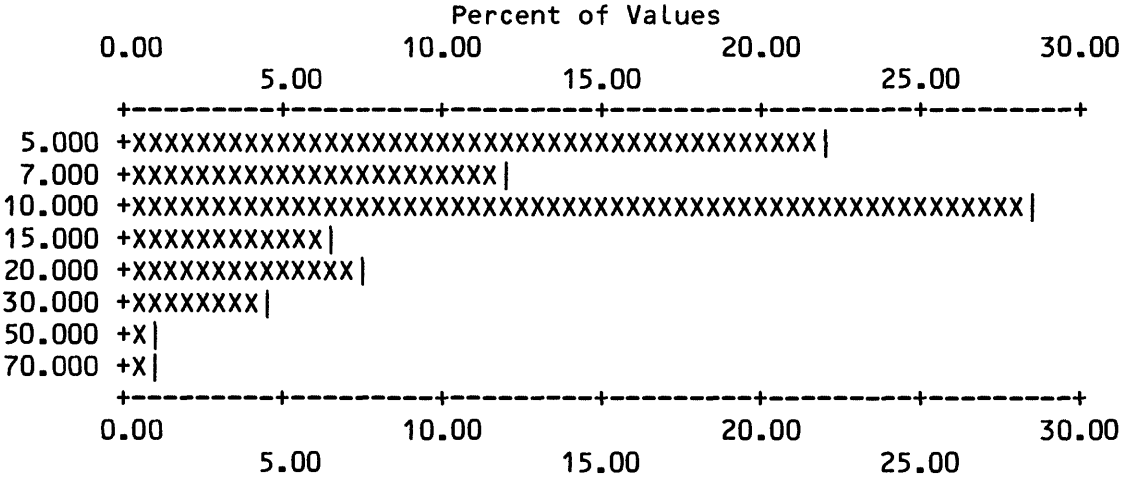


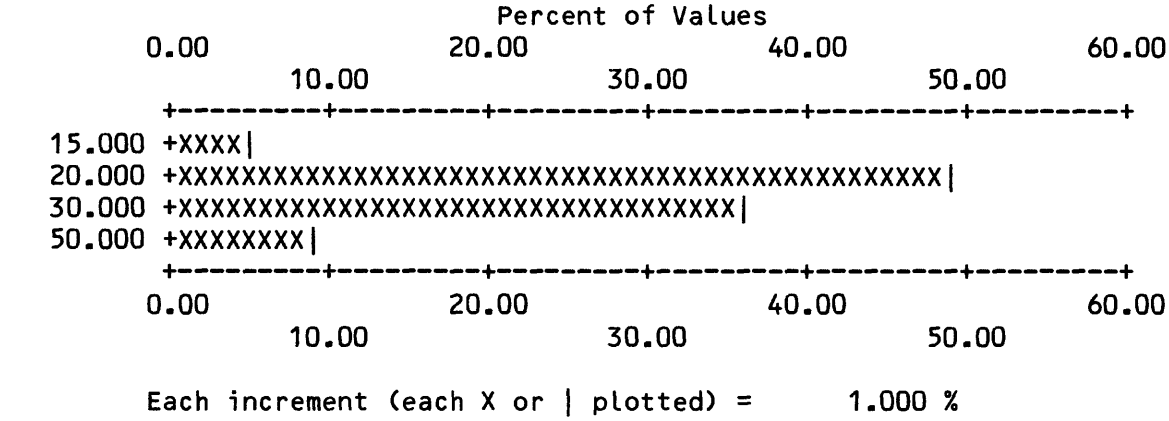
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-PB

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	15.000	5	5.49	5	5.5	94.5	5	5.5	94.5
2	20.000	45	49.45	50	54.9	45.1	50	54.9	45.1
3	30.000	33	36.26	83	91.2	8.8	83	91.2	8.8
4	50.000	8	8.79	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
15.000	50.00	25.989	9.04	24.718	1.36	91



Each increment (each X or | plotted) = 1.000 %

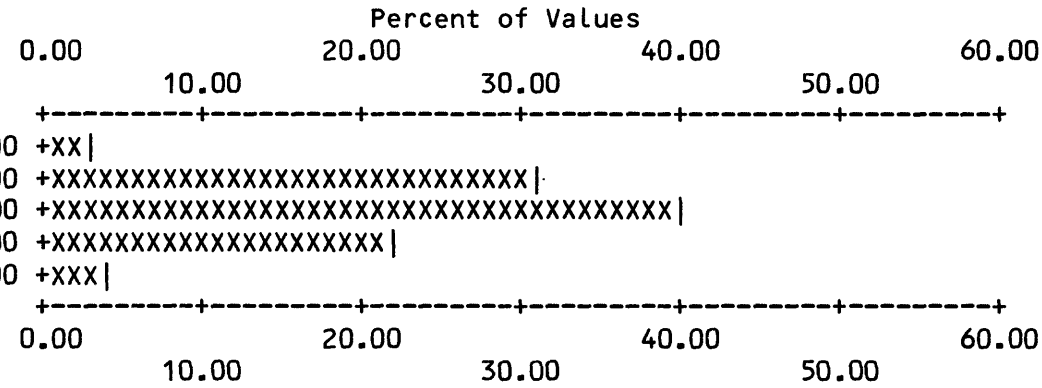
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-SC

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	7.000	3	3.30	3	3.3	96.7	3	3.3	96.7
2	10.000	28	30.77	31	34.1	65.9	31	34.1	65.9
3	15.000	36	39.56	67	73.6	26.4	67	73.6	26.4
4	20.000	20	21.98	87	95.6	4.4	87	95.6	4.4
5	30.000	4	4.40	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
7.000	30.00	14.956	5.05	14.180	1.39	91



Each increment (each X or | plotted) = 1.000 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-SN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	1	1.10	1	1.1	98.9	89	97.8	2.2
2	20.000	1	1.10	2	2.2	97.8	90	98.9	1.1
3	50.000	1	1.10	3	3.3	96.7	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	85	3	0	0	3	91	91	VALUES
0.0	0.0	0.0	93.4	3.3	0.0	0.0	3.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	50.00	26.667	20.82	21.544	2.24	3

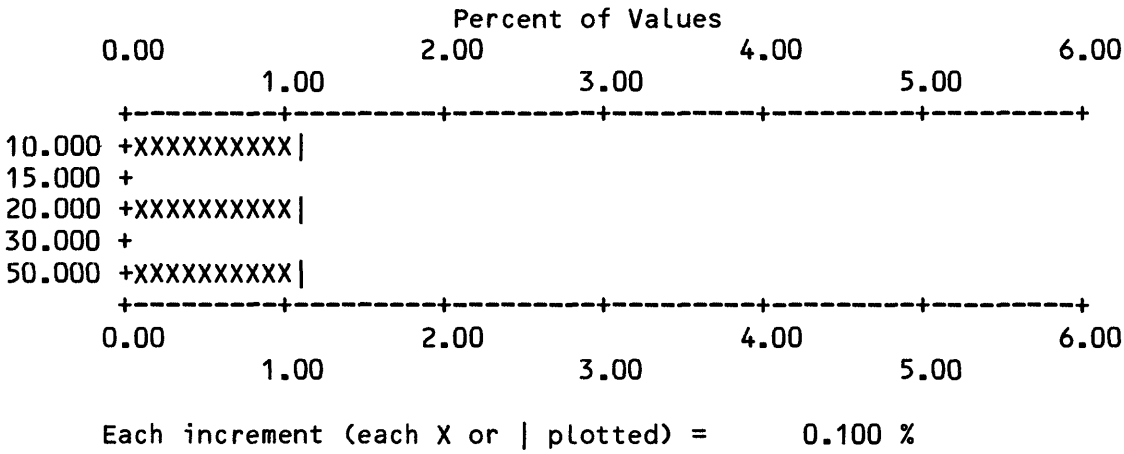


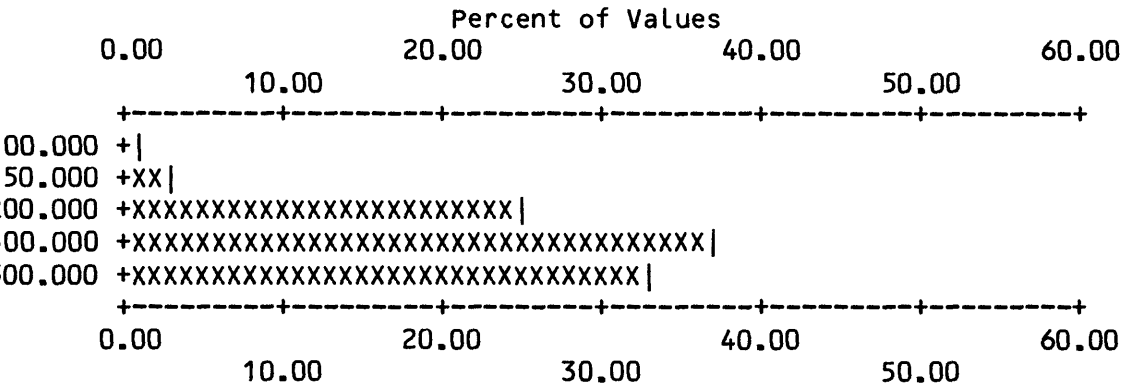
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-SR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	100.000	1	1.10	1	1.1	98.9	1	1.1	98.9
2	150.000	3	3.30	4	4.4	95.6	4	4.4	95.6
3	200.000	23	25.27	27	29.7	70.3	27	29.7	70.3
4	300.000	34	37.36	61	67.0	33.0	61	67.0	33.0
5	500.000	30	32.97	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	500.00	333.516	126.28	309.446	1.49	91



Each increment (each X or | plotted) = 1.000 %

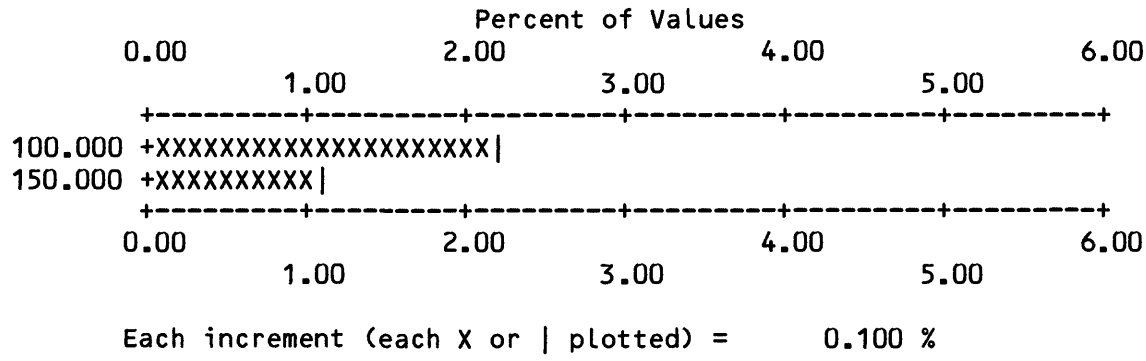
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-TH

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	100.000	2	2.20	2	2.2	97.8	90	98.9	1.1
2	150.000	1	1.10	3	3.3	96.7	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	70	18	0	0	3	91	91	VALUES
0.0	0.0	0.0	76.9	19.8	0.0	0.0	3.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	150.00	116.667	28.87	114.471	1.26	3



Each increment (each X or | plotted) = 0.100 %

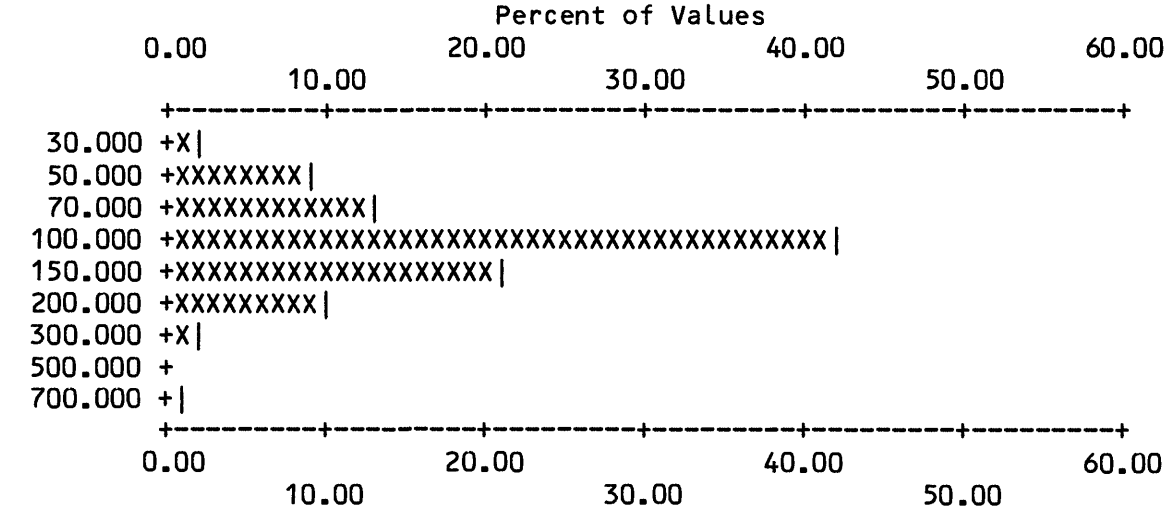
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-V

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	30.000	2	2.20	2	2.2	97.8	2	2.2	97.8
2	50.000	8	8.79	10	11.0	89.0	10	11.0	89.0
3	70.000	12	13.19	22	24.2	75.8	22	24.2	75.8
4	100.000	38	41.76	60	65.9	34.1	60	65.9	34.1
5	150.000	19	20.88	79	86.8	13.2	79	86.8	13.2
6	200.000	9	9.89	88	96.7	3.3	88	96.7	3.3
7	300.000	2	2.20	90	98.9	1.1	90	98.9	1.1
8	700.000	1	1.10	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
30.000	700.00	121.429	80.02	106.642	1.63	91



Each increment (each X or | plotted) = 1.000 %

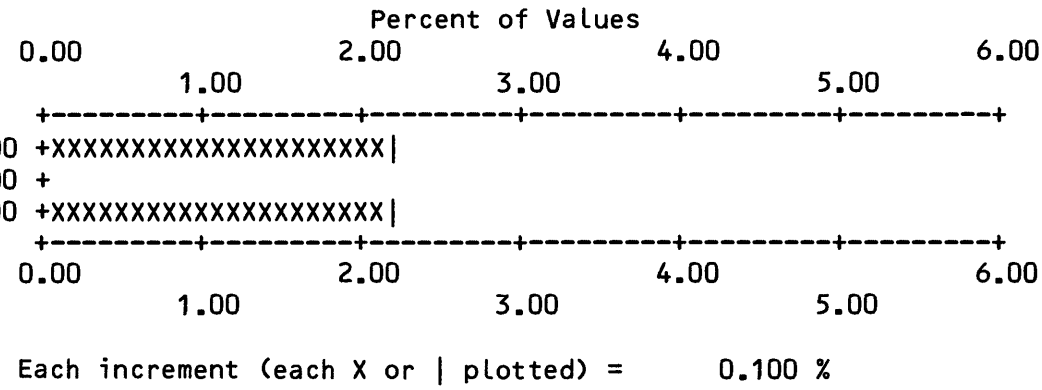
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-W

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	50.000	2	2.20	2	2.2	97.8	89	97.8	2.2
2	100.000	2	2.20	4	4.4	95.6	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	78	9	0	0	4	91	91	VALUES
0.0	0.0	0.0	85.7	9.9	0.0	0.0	4.4			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
50.000	100.00	75.000	28.87	70.711	1.49	4



Each increment (each X or | plotted) = 0.100 %

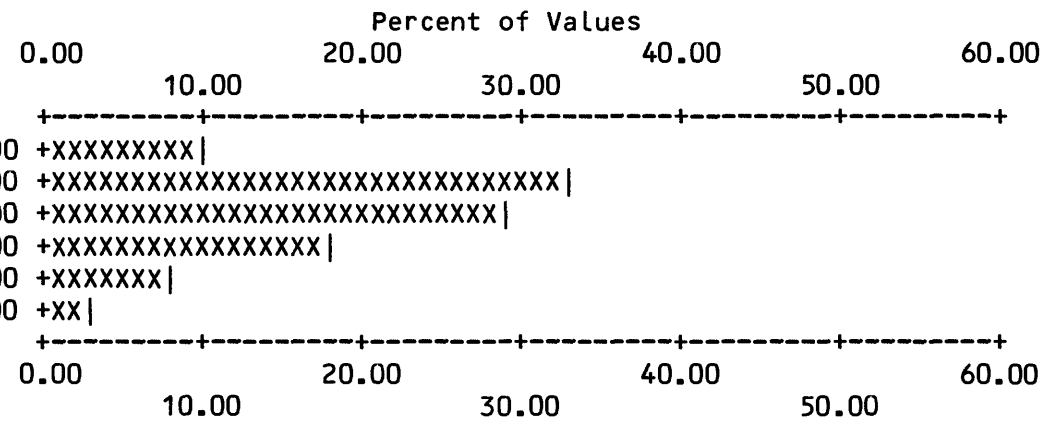
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-Y

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	15.000	9	9.89	9	9.9	90.1	9	9.9	90.1
2	20.000	30	32.97	39	42.9	57.1	39	42.9	57.1
3	30.000	26	28.57	65	71.4	28.6	65	71.4	28.6
4	50.000	16	17.58	81	89.0	11.0	81	89.0	11.0
5	70.000	7	7.69	88	96.7	3.3	88	96.7	3.3
6	100.000	3	3.30	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
15.000	100.00	34.121	19.94	29.775	1.65	91



Each increment (each X or | plotted) = 1.000 %

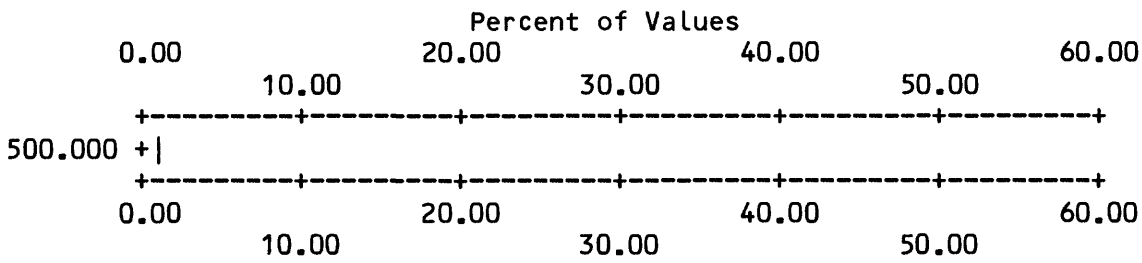
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-ZN

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %	
1	500.000	1	1.10	1	1.1	98.9	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	83	7	0	0	1	91	91	VALUES
0.0	0.0	0.0	91.2	7.7	0.0	0.0	1.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
500.000	500.00	500.000	0.00	500.000	********	1



Each increment (each X or | plotted) = 1.000 %

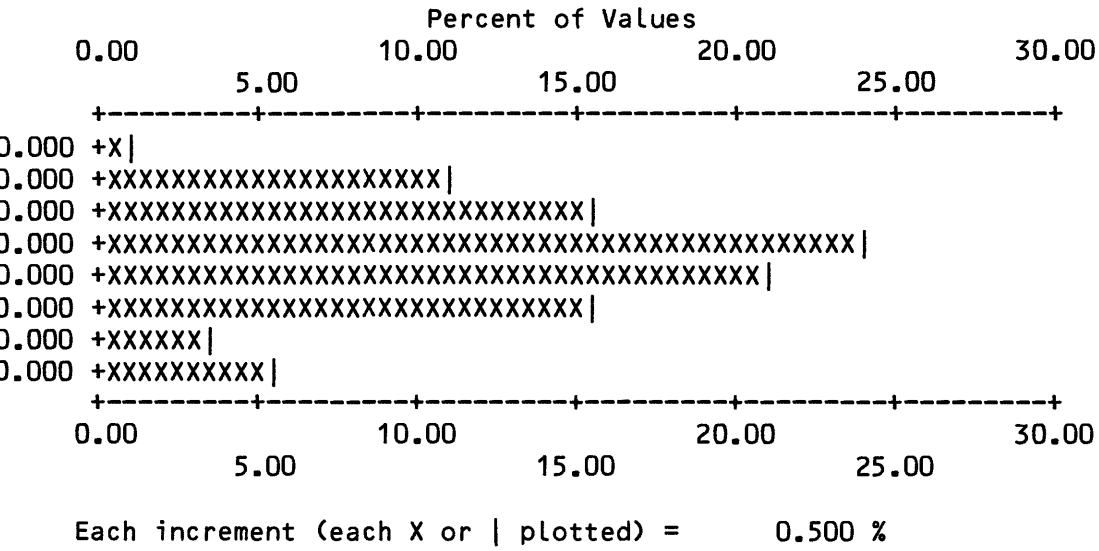
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

S-ZR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	70.000	1	1.10	1	1.1	98.9	1	1.1	98.9
2	100.000	10	10.99	11	12.1	87.9	11	12.1	87.9
3	150.000	14	15.38	25	27.5	72.5	25	27.5	72.5
4	200.000	22	24.18	47	51.6	48.4	47	51.6	48.4
5	300.000	19	20.88	66	72.5	27.5	66	72.5	27.5
6	500.000	14	15.38	80	87.9	12.1	80	87.9	12.1
7	700.000	3	3.30	83	91.2	8.8	83	91.2	8.8
8	1000.000	5	5.49	88	96.7	3.3	88	96.7	3.3

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	3	0	88	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	3.3	0.0	96.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
70.000	1000.00	311.023	226.60	251.973	1.88	88



Each increment (each X or | plotted) = 0.500 %

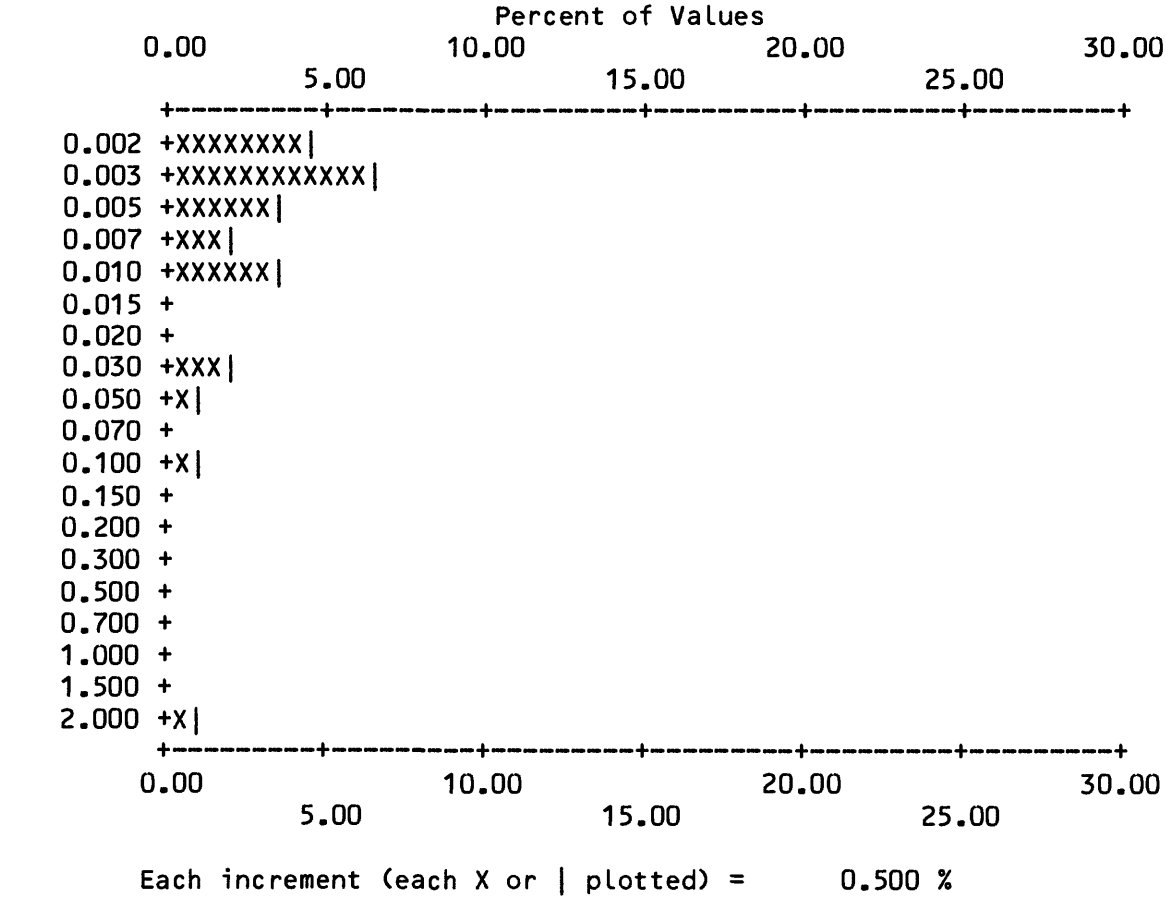
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

AA-AU

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.002	4	4.40	4	4.4	95.6	72	79.1	20.9
2	0.003	6	6.59	10	11.0	89.0	78	85.7	14.3
3	0.005	3	3.30	13	14.3	85.7	81	89.0	11.0
4	0.007	2	2.20	15	16.5	83.5	83	91.2	8.8
5	0.010	3	3.30	18	19.8	80.2	86	94.5	5.5
6	0.030	2	2.20	20	22.0	78.0	88	96.7	3.3
7	0.050	1	1.10	21	23.1	76.9	89	97.8	2.2
8	0.100	1	1.10	22	24.2	75.8	90	98.9	1.1
9	2.000	1	1.10	23	25.3	74.7	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	68	0	0	0	23	91	91	VALUES
0.0	0.0	0.0	74.7	0.0	0.0	0.0	25.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.002	2.00	0.100	0.41	0.008	5.07	23



Each increment (each X or | plotted) = 0.500 %

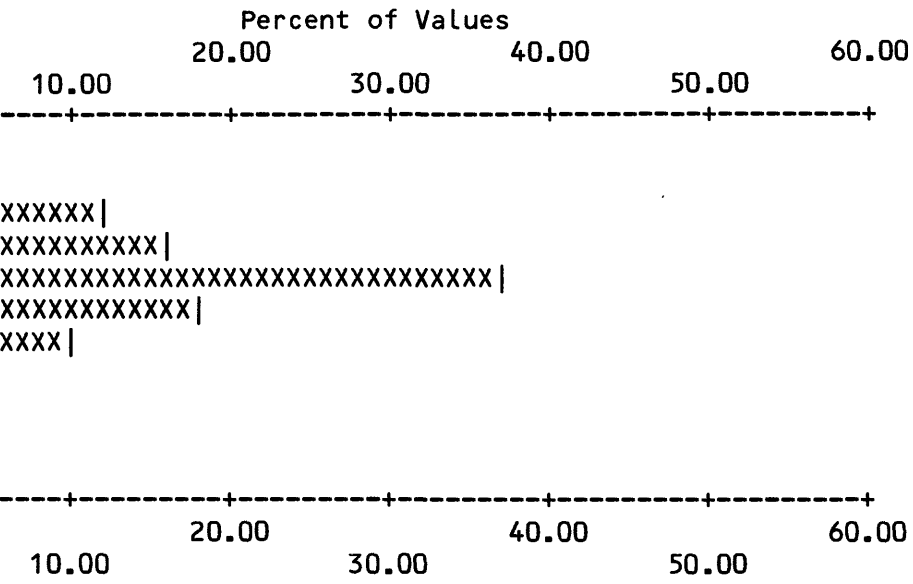
Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

AA-ZN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	1	1.10	1	1.1	98.9	1	1.1	98.9
2	15.000	3	3.30	4	4.4	95.6	4	4.4	95.6
3	20.000	11	12.09	15	16.5	83.5	15	16.5	83.5
4	30.000	15	16.48	30	33.0	67.0	30	33.0	67.0
5	50.000	34	37.36	64	70.3	29.7	64	70.3	29.7
6	70.000	16	17.58	80	87.9	12.1	80	87.9	12.1
7	100.000	9	9.89	89	97.8	2.2	89	97.8	2.2
8	150.000	1	1.10	90	98.9	1.1	90	98.9	1.1
9	500.000	1	1.10	91	100.0	0.0	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	91	91	91	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	500.00	55.989	53.68	45.822	1.82	91



Each increment (each X or | plotted) = 1.000 %

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

U-INST

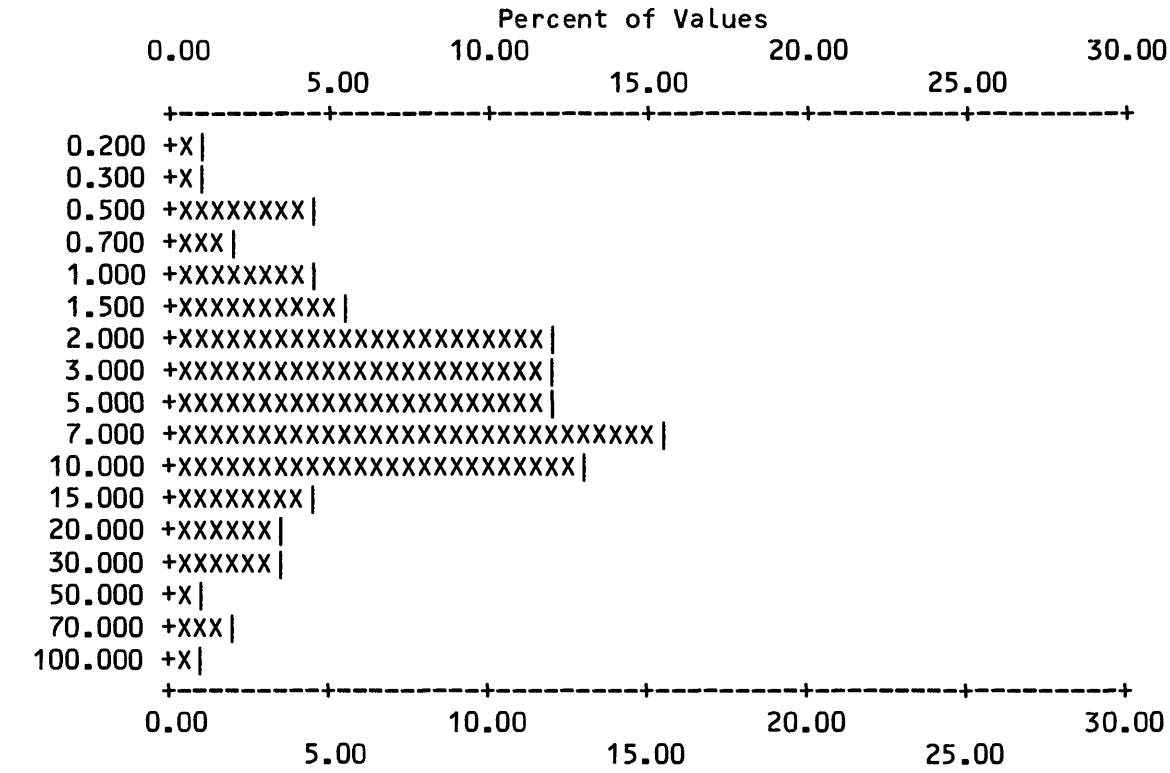
	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.200	1	1.10	1	1.1	98.9	2	2.2	97.8
2	0.300	1	1.10	2	2.2	97.8	3	3.3	96.7
3	0.500	4	4.40	6	6.6	93.4	7	7.7	92.3
4	0.700	2	2.20	8	8.8	91.2	9	9.9	90.1
5	1.000	4	4.40	12	13.2	86.8	13	14.3	85.7
6	1.500	5	5.49	17	18.7	81.3	18	19.8	80.2
7	2.000	11	12.09	28	30.8	69.2	29	31.9	68.1
8	3.000	11	12.09	39	42.9	57.1	40	44.0	56.0
9	5.000	11	12.09	50	54.9	45.1	51	56.0	44.0
10	7.000	14	15.38	64	70.3	29.7	65	71.4	28.6
11	10.000	12	13.19	76	83.5	16.5	77	84.6	15.4
12	15.000	4	4.40	80	87.9	12.1	81	89.0	11.0
13	20.000	3	3.30	83	91.2	8.8	84	92.3	7.7
14	30.000	3	3.30	86	94.5	5.5	87	95.6	4.4
15	50.000	1	1.10	87	95.6	4.4	88	96.7	3.3
16	70.000	2	2.20	89	97.8	2.2	90	98.9	1.1
17	100.000	1	1.10	90	98.9	1.1	91	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	1	0	0	0	90	91	91	VALUES
0.0	0.0	0.0	1.1	0.0	0.0	0.0	98.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.200	100.00	9.371	15.55	4.484	3.37	90

Table 5. Frequency tables and histograms for stream-sediment samples - (continued)

COLUMN ID: U-INST



Each increment (each X or | plotted) = 0.500 %

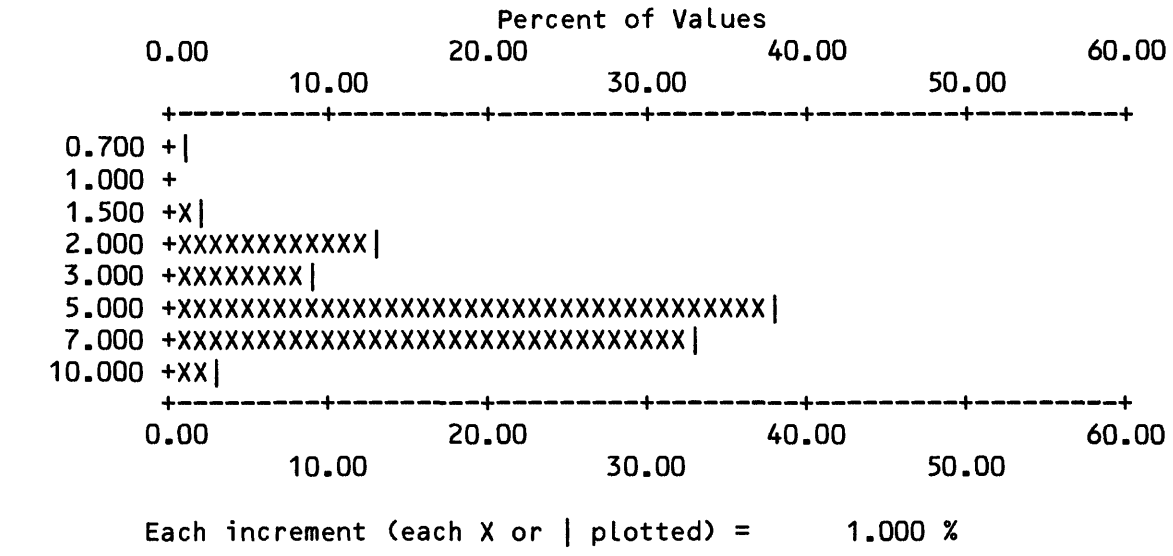
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples

S-CA%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.700	1	1.11	1	1.1	98.9	1	1.1	98.9
2	1.500	2	2.22	3	3.3	96.7	3	3.3	96.7
3	2.000	12	13.33	15	16.7	83.3	15	16.7	83.3
4	3.000	8	8.89	23	25.6	74.4	23	25.6	74.4
5	5.000	34	37.78	57	63.3	36.7	57	63.3	36.7
6	7.000	30	33.33	87	96.7	3.3	87	96.7	3.3
7	10.000	3	3.33	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.700	10.00	5.130	2.06	4.611	1.67	90



Each increment (each X or | plotted) = 1.000 %

Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-FE%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.500	37	41.11	37	41.1	58.9	37	41.1	58.9
2	0.700	29	32.22	66	73.3	26.7	66	73.3	26.7
3	1.000	18	20.00	84	93.3	6.7	84	93.3	6.7
4	1.500	2	2.22	86	95.6	4.4	86	95.6	4.4
5	2.000	1	1.11	87	96.7	3.3	87	96.7	3.3
6	3.000	1	1.11	88	97.8	2.2	88	97.8	2.2
7	7.000	1	1.11	89	98.9	1.1	89	98.9	1.1
8	15.000	1	1.11	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.500	15.00	0.964	1.67	0.727	1.71	90

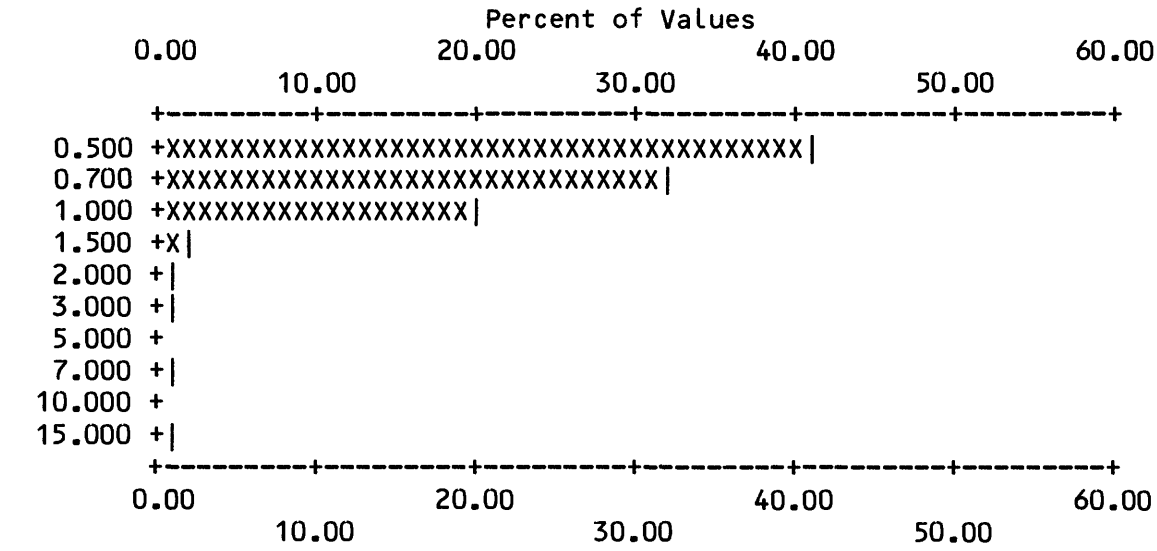


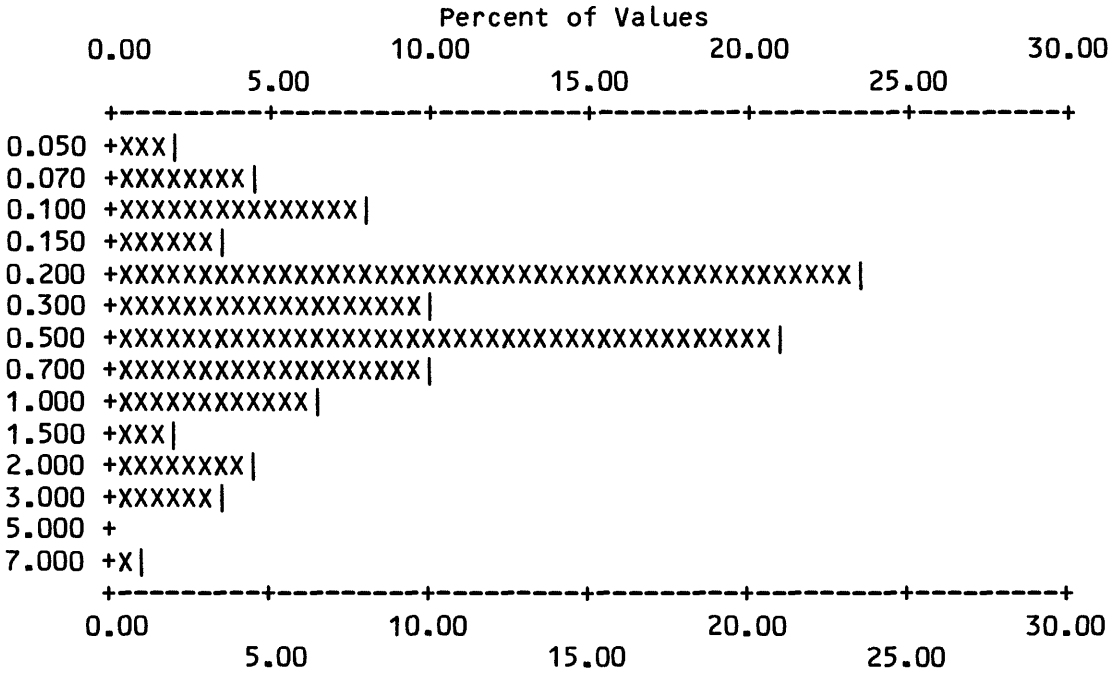
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-MG%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	0.050	2	2.22	2	2.2	97.8	2	2.2	97.8
2	0.070	4	4.44	6	6.7	93.3	6	6.7	93.3
3	0.100	7	7.78	13	14.4	85.6	13	14.4	85.6
4	0.150	3	3.33	16	17.8	82.2	16	17.8	82.2
5	0.200	21	23.33	37	41.1	58.9	37	41.1	58.9
6	0.300	9	10.00	46	51.1	48.9	46	51.1	48.9
7	0.500	19	21.11	65	72.2	27.8	65	72.2	27.8
8	0.700	9	10.00	74	82.2	17.8	74	82.2	17.8
9	1.000	6	6.67	80	88.9	11.1	80	88.9	11.1
10	1.500	2	2.22	82	91.1	8.9	82	91.1	8.9
11	2.000	4	4.44	86	95.6	4.4	86	95.6	4.4
12	3.000	3	3.33	89	98.9	1.1	89	98.9	1.1
13	7.000	1	1.11	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.050	7.00	0.636	0.93	0.365	2.74	90



Each increment (each X or | plotted) = 0.500 %

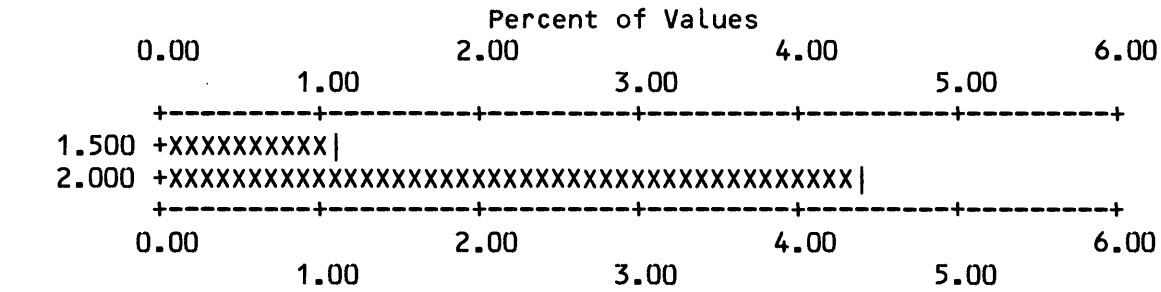
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-TI%

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	1.500	1	1.11	1	1.1	98.9	1	1.1	98.9
2	2.000	4	4.44	5	5.6	94.4	5	5.6	94.4

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	85	0	5	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	94.4	0.0	5.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1.500	2.00	1.900	0.22	1.888	1.14	5



Each increment (each X or | plotted) = 0.100 %

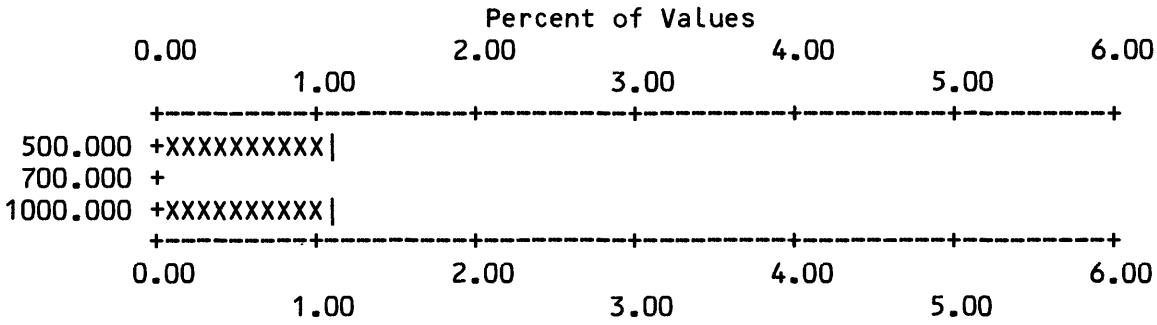
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-AS

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	500.000	1	1.11	1	1.1	98.9	89	98.9	1.1
2	1000.000	1	1.11	2	2.2	97.8	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	85	3	0	0	2	90	90	VALUES
0.0	0.0	0.0	94.4	3.3	0.0	0.0	2.2			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
500.000	1000.00	750.000	353.55	707.107	1.63	2



Each increment (each X or | plotted) = 0.100 %

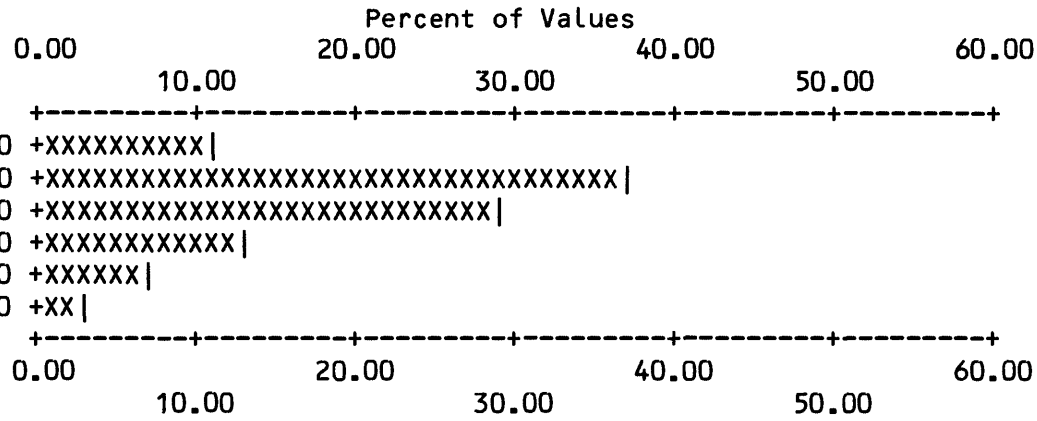
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-B

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	10	11.11	10	11.1	88.9	10	11.1	88.9
2	30.000	33	36.67	43	47.8	52.2	43	47.8	52.2
3	50.000	26	28.89	69	76.7	23.3	69	76.7	23.3
4	70.000	12	13.33	81	90.0	10.0	81	90.0	10.0
5	100.000	6	6.67	87	96.7	3.3	87	96.7	3.3
6	150.000	3	3.33	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	150.00	48.667	28.41	42.547	1.65	90



Each increment (each X or | plotted) = 1.000 %

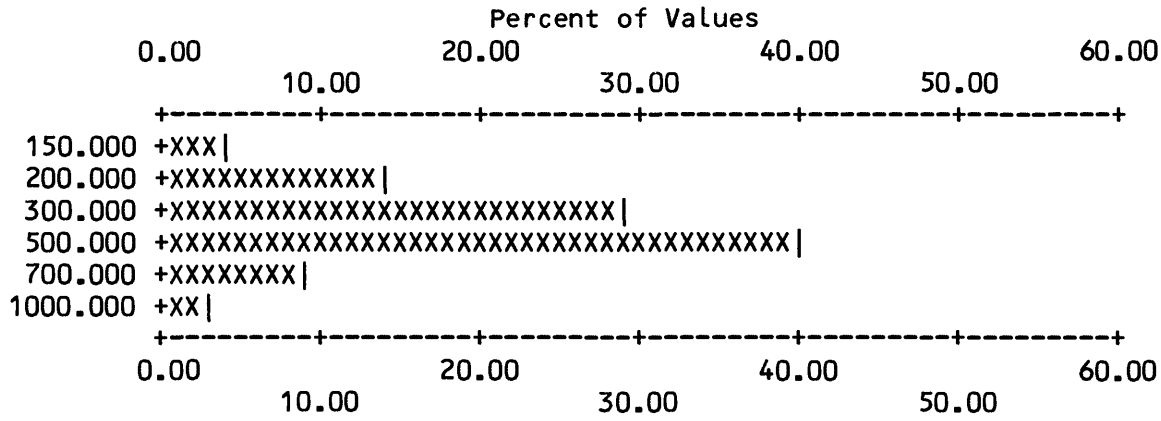
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-BA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	150.000	4	4.44	4	4.4	95.6	4	4.4	95.6
2	200.000	13	14.44	17	18.9	81.1	17	18.9	81.1
3	300.000	26	28.89	43	47.8	52.2	43	47.8	52.2
4	500.000	36	40.00	79	87.8	12.2	79	87.8	12.2
5	700.000	8	8.89	87	96.7	3.3	87	96.7	3.3
6	1000.000	3	3.33	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
150.000	1000.00	417.778	188.48	377.733	1.58	90



Each increment (each X or | plotted) = 1.000 %

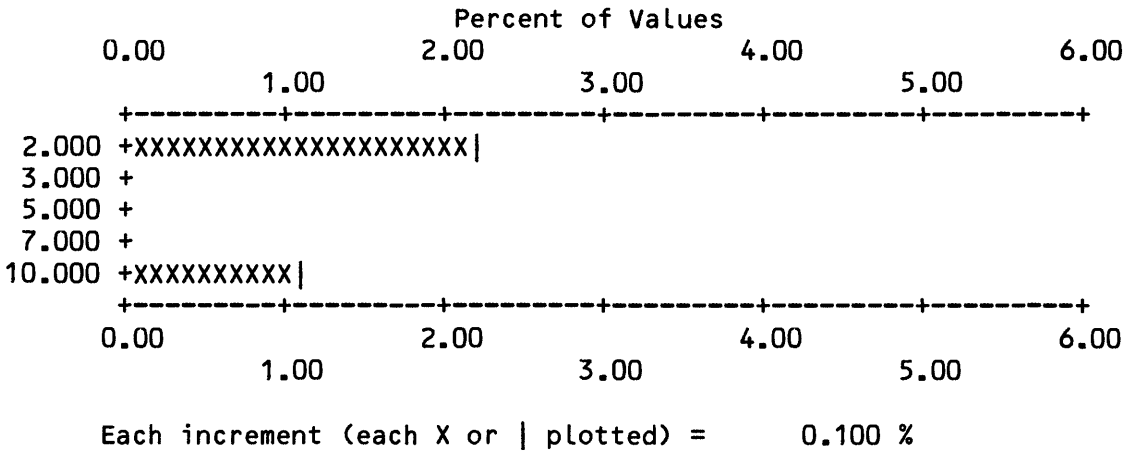
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-BE

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	2.000	2	2.22	2	2.2	97.8	89	98.9	1.1
2	10.000	1	1.11	3	3.3	96.7	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	79	8	0	0	3	90	90	VALUES
0.0	0.0	0.0	87.8	8.9	0.0	0.0	3.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
2.000	10.00	4.667	4.62	3.420	2.53	3



Each increment (each X or | plotted) = 0.100 %

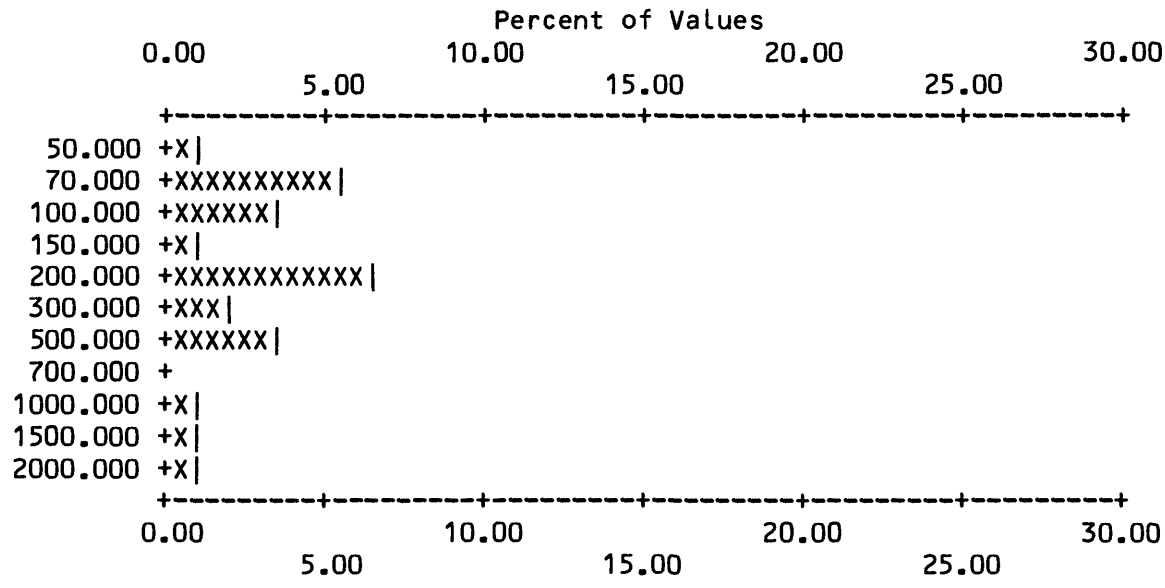
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-BI

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	50.000	1	1.11	1	1.1	98.9	66	73.3	26.7
2	70.000	5	5.56	6	6.7	93.3	71	78.9	21.1
3	100.000	3	3.33	9	10.0	90.0	74	82.2	17.8
4	150.000	1	1.11	10	11.1	88.9	75	83.3	16.7
5	200.000	6	6.67	16	17.8	82.2	81	90.0	10.0
6	300.000	2	2.22	18	20.0	80.0	83	92.2	7.8
7	500.000	3	3.33	21	23.3	76.7	86	95.6	4.4
8	1000.000	1	1.11	22	24.4	75.6	87	96.7	3.3
9	1500.000	1	1.11	23	25.6	74.4	88	97.8	2.2
10	2000.000	1	1.11	24	26.7	73.3	89	98.9	1.1

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	65	0	1	0	24	90	90	VALUES
0.0	0.0	0.0	72.2	0.0	1.1	0.0	26.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
50.000	2000.00	360.417	483.73	204.076	2.76	24



Each increment (each X or | plotted) = 0.500 %

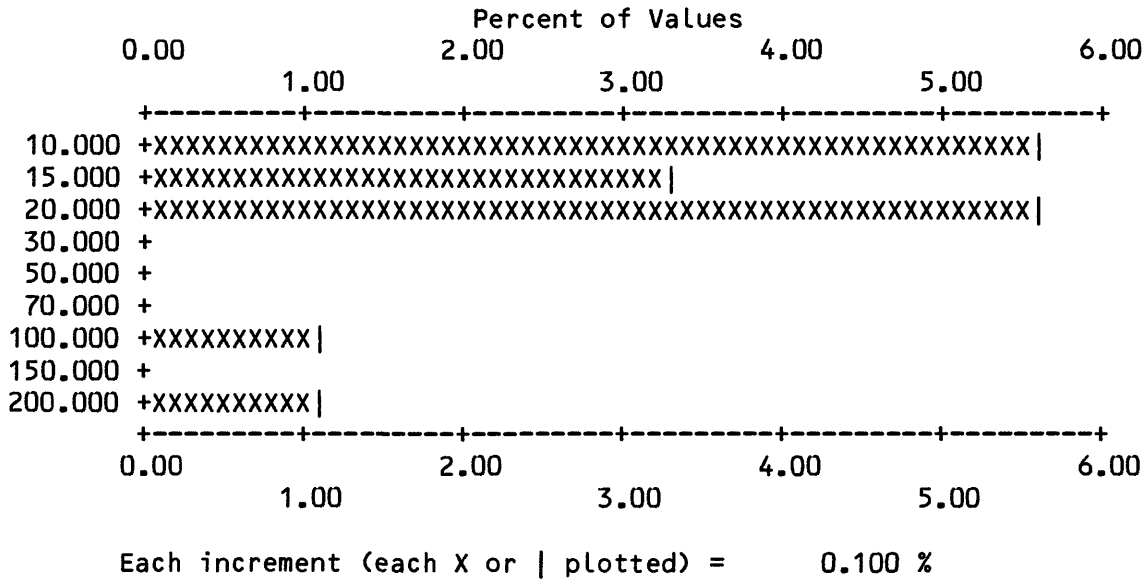
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-CO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	5	5.56	5	5.6	94.4	80	88.9	11.1
2	15.000	3	3.33	8	8.9	91.1	83	92.2	7.8
3	20.000	5	5.56	13	14.4	85.6	88	97.8	2.2
4	100.000	1	1.11	14	15.6	84.4	89	98.9	1.1
5	200.000	1	1.11	15	16.7	83.3	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	55	20	0	0	15	90	90	VALUES
0.0	0.0	0.0	61.1	22.2	0.0	0.0	16.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	200.00	33.000	51.30	19.452	2.38	15



Each increment (each X or | plotted) = 0.100 %

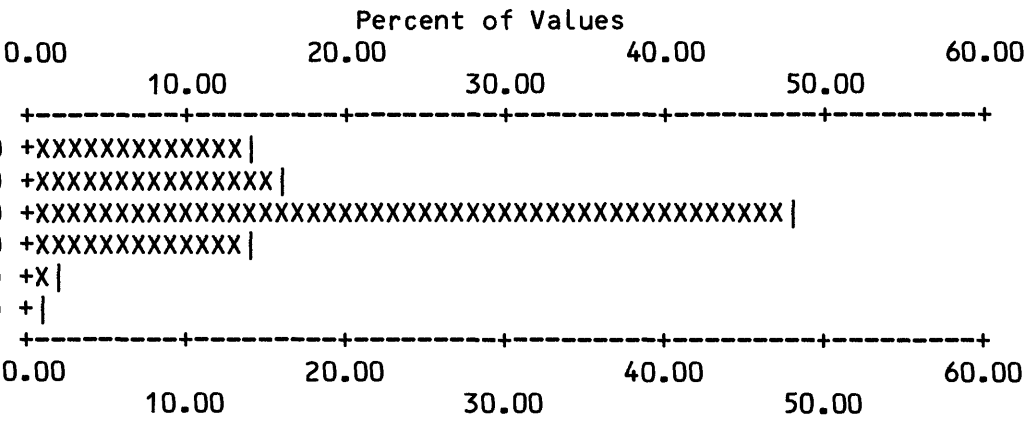
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-CR

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	13	14.44	13	14.4	85.6	17	18.9	81.1
2	30.000	14	15.56	27	30.0	70.0	31	34.4	65.6
3	50.000	43	47.78	70	77.8	22.2	74	82.2	17.8
4	70.000	13	14.44	83	92.2	7.8	87	96.7	3.3
5	100.000	2	2.22	85	94.4	5.6	89	98.9	1.1
6	150.000	1	1.11	86	95.6	4.4	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	1	3	0	0	86	90	90	VALUES
0.0	0.0	0.0	1.1	3.3	0.0	0.0	95.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	150.00	47.558	20.86	43.385	1.55	86



Each increment (each X or | plotted) = 1.000 %

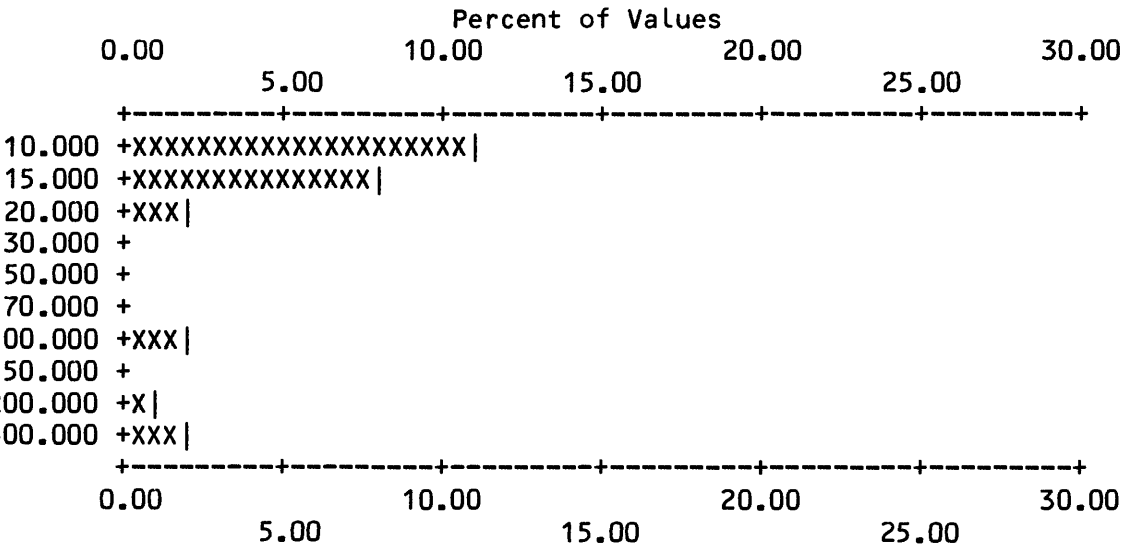
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-CU

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	10	11.11	10	11.1	88.9	76	84.4	15.6
2	15.000	7	7.78	17	18.9	81.1	83	92.2	7.8
3	20.000	2	2.22	19	21.1	78.9	85	94.4	5.6
4	100.000	2	2.22	21	23.3	76.7	87	96.7	3.3
5	200.000	1	1.11	22	24.4	75.6	88	97.8	2.2
6	300.000	2	2.22	24	26.7	73.3	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	31	35	0	0	24	90	90	VALUES
0.0	0.0	0.0	34.4	38.9	0.0	0.0	26.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	300.00	51.875	88.17	21.731	3.16	24



Each increment (each X or | plotted) = 0.500 %

Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-LA

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	150.000	1	1.11	1	1.1	98.9	1	1.1	98.9
2	200.000	2	2.22	3	3.3	96.7	3	3.3	96.7
3	300.000	2	2.22	5	5.6	94.4	5	5.6	94.4
4	500.000	11	12.22	16	17.8	82.2	16	17.8	82.2
5	700.000	16	17.78	32	35.6	64.4	32	35.6	64.4
6	1000.000	32	35.56	64	71.1	28.9	64	71.1	28.9
7	1500.000	14	15.56	78	86.7	13.3	78	86.7	13.3
8	2000.000	8	8.89	86	95.6	4.4	86	95.6	4.4

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	4	0	86	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	4.4	0.0	95.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
150.000	2000.00	1009.884	468.59	894.027	1.70	86

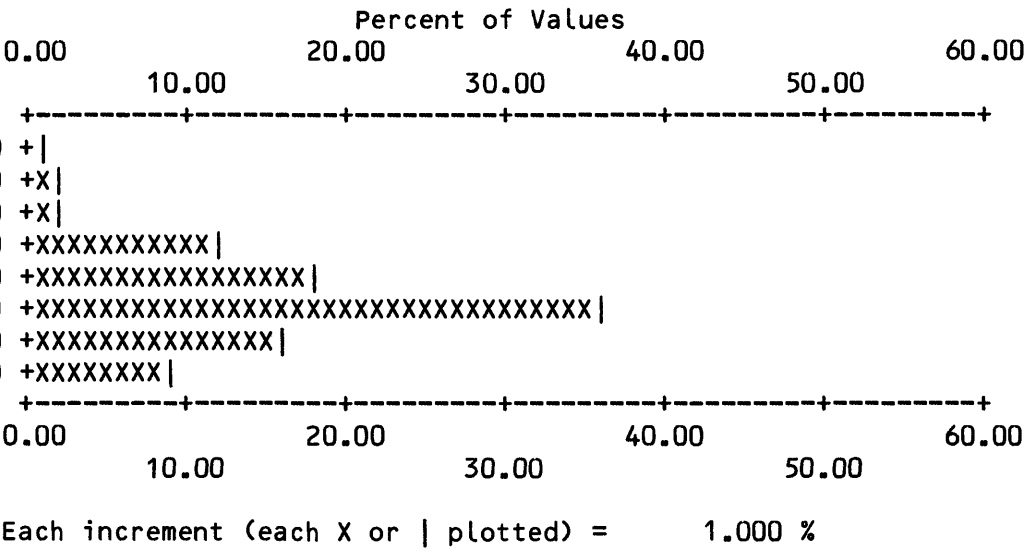


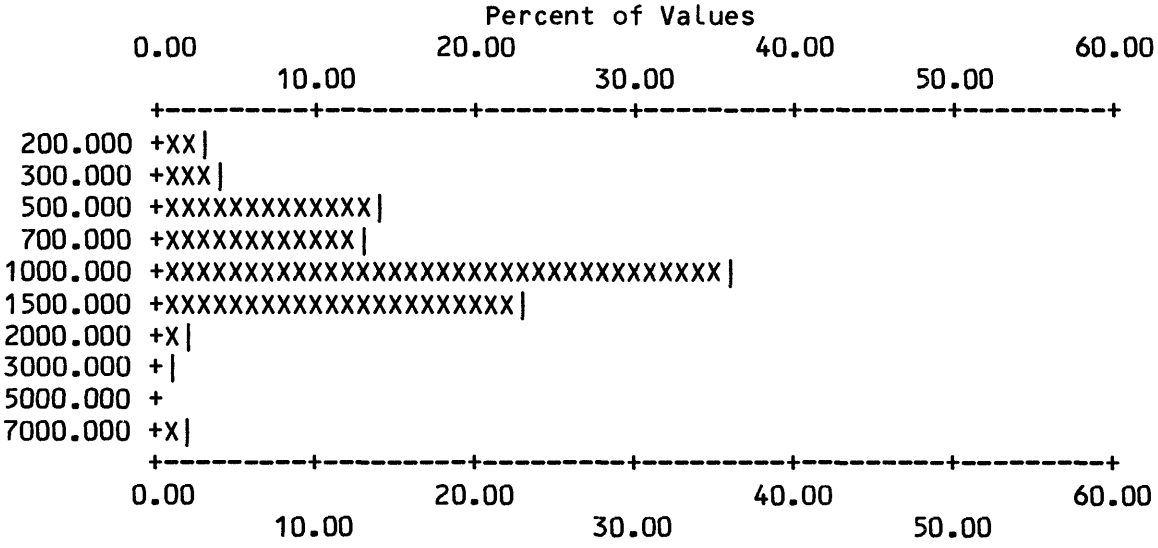
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-MN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	200.000	3	3.33	3	3.3	96.7	3	3.3	96.7
2	300.000	4	4.44	7	7.8	92.2	7	7.8	92.2
3	500.000	13	14.44	20	22.2	77.8	20	22.2	77.8
4	700.000	12	13.33	32	35.6	64.4	32	35.6	64.4
5	1000.000	32	35.56	64	71.1	28.9	64	71.1	28.9
6	1500.000	21	23.33	85	94.4	5.6	85	94.4	5.6
7	2000.000	2	2.22	87	96.7	3.3	87	96.7	3.3
8	3000.000	1	1.11	88	97.8	2.2	88	97.8	2.2
9	7000.000	2	2.22	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
200.000	7000.00	1124.444	1005.97	914.503	1.85	90



Each increment (each X or | plotted) = 1.000 %

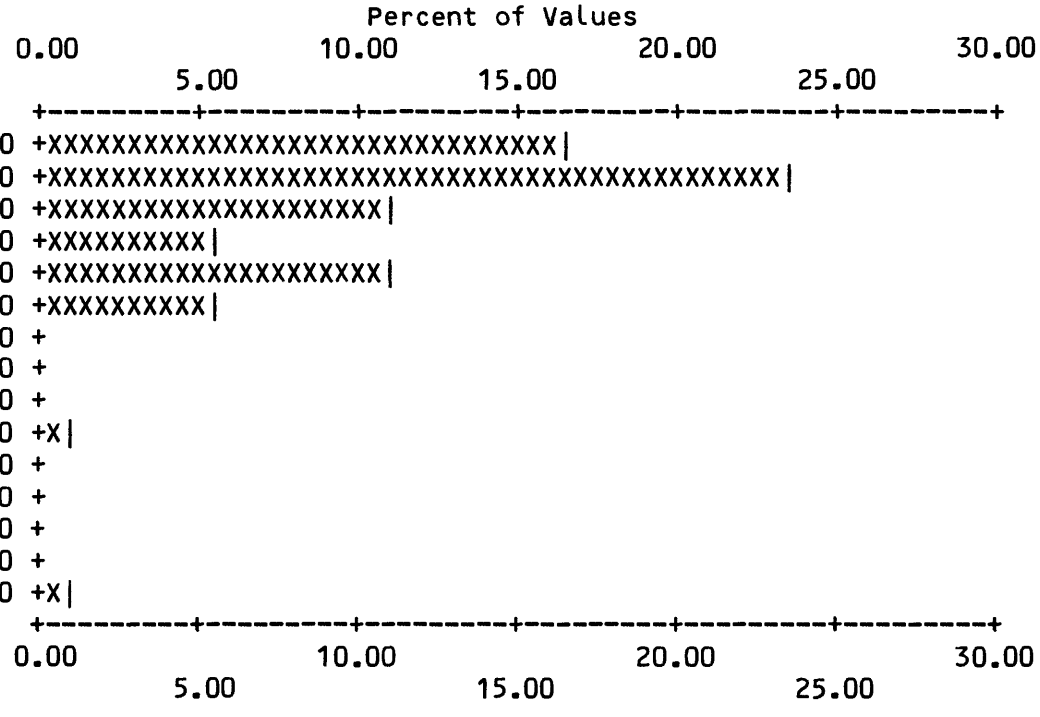
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-MO

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	10.000	15	16.67	15	16.7	83.3	37	41.1	58.9
2	15.000	21	23.33	36	40.0	60.0	58	64.4	35.6
3	20.000	10	11.11	46	51.1	48.9	68	75.6	24.4
4	30.000	5	5.56	51	56.7	43.3	73	81.1	18.9
5	50.000	10	11.11	61	67.8	32.2	83	92.2	7.8
6	70.000	5	5.56	66	73.3	26.7	88	97.8	2.2
7	300.000	1	1.11	67	74.4	25.6	89	98.9	1.1
8	2000.000	1	1.11	68	75.6	24.4	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	13	9	0	0	68	90	90	VALUES
0.0	0.0	0.0	14.4	10.0	0.0	0.0	75.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	2000.00	58.309	241.98	22.606	2.44	68



Each increment (each X or | plotted) = 0.500 %

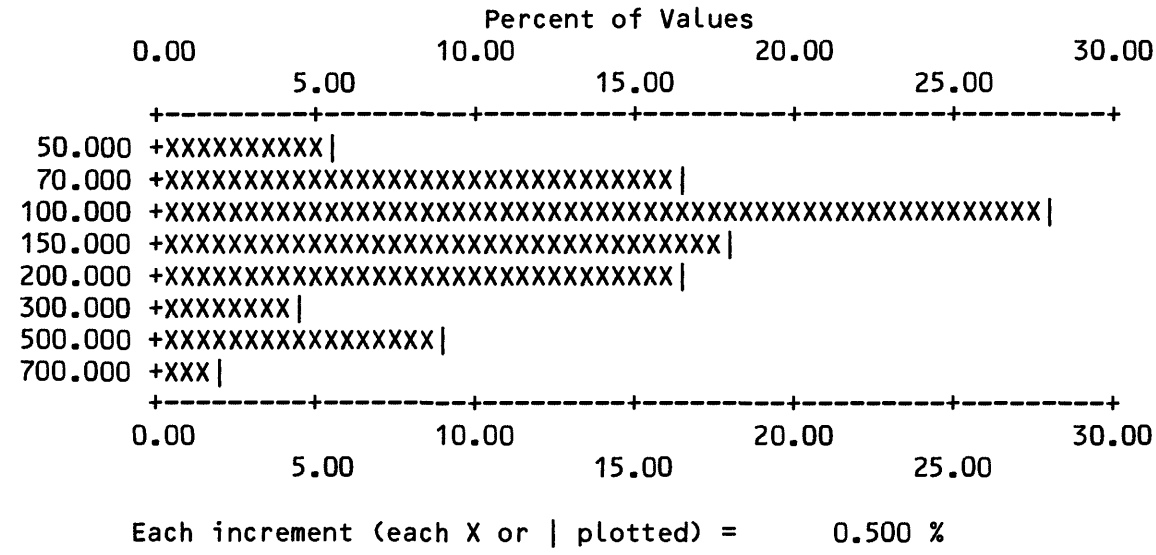
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-NB

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	50.000	5	5.56	5	5.6	94.4	5	5.6	94.4
2	70.000	15	16.67	20	22.2	77.8	20	22.2	77.8
3	100.000	25	27.78	45	50.0	50.0	45	50.0	50.0
4	150.000	16	17.78	61	67.8	32.2	61	67.8	32.2
5	200.000	15	16.67	76	84.4	15.6	76	84.4	15.6
6	300.000	4	4.44	80	88.9	11.1	80	88.9	11.1
7	500.000	8	8.89	88	97.8	2.2	88	97.8	2.2
8	700.000	2	2.22	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
50.000	700.00	175.556	144.65	138.373	1.92	90



Each increment (each X or | plotted) = 0.500 %

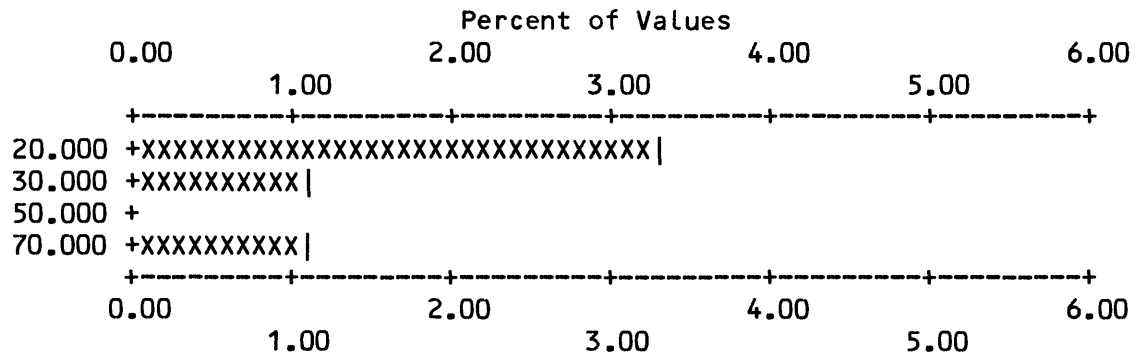
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-NI

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	3	3.33	3	3.3	96.7	88	97.8	2.2
2	30.000	1	1.11	4	4.4	95.6	89	98.9	1.1
3	70.000	1	1.11	5	5.6	94.4	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	85	0	0	0	5	90	90	VALUES
0.0	0.0	0.0	94.4	0.0	0.0	0.0	5.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	70.00	32.000	21.68	27.865	1.72	5



Each increment (each X or | plotted) = 0.100 %

Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-PB

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	22	24.44	22	24.4	75.6	24	26.7	73.3
2	30.000	9	10.00	31	34.4	65.6	33	36.7	63.3
3	50.000	15	16.67	46	51.1	48.9	48	53.3	46.7
4	70.000	10	11.11	56	62.2	37.8	58	64.4	35.6
5	100.000	15	16.67	71	78.9	21.1	73	81.1	18.9
6	150.000	6	6.67	77	85.6	14.4	79	87.8	12.2
7	200.000	4	4.44	81	90.0	10.0	83	92.2	7.8
8	300.000	2	2.22	83	92.2	7.8	85	94.4	5.6
9	500.000	1	1.11	84	93.3	6.7	86	95.6	4.4
10	700.000	2	2.22	86	95.6	4.4	88	97.8	2.2
11	1000.000	1	1.11	87	96.7	3.3	89	98.9	1.1
12	1500.000	1	1.11	88	97.8	2.2	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	2	0	0	88	90	90	VALUES
0.0	0.0	0.0	0.0	2.2	0.0	0.0	97.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	1500.00	117.727	214.12	61.841	2.71	88

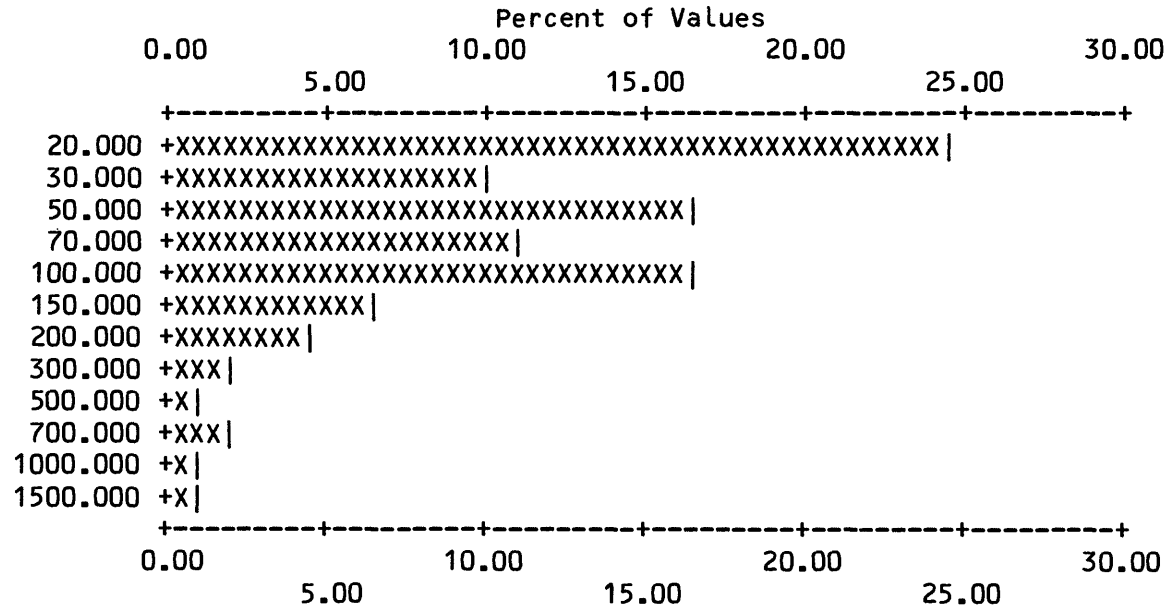


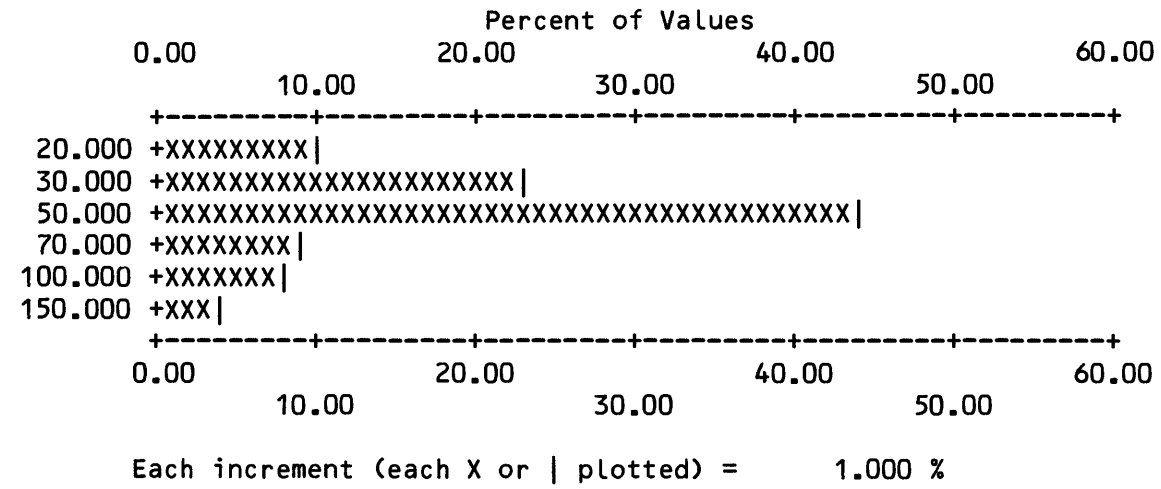
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-SC

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	9	10.00	9	10.0	90.0	10	11.1	88.9
2	30.000	21	23.33	30	33.3	66.7	31	34.4	65.6
3	50.000	40	44.44	70	77.8	22.2	71	78.9	21.1
4	70.000	8	8.89	78	86.7	13.3	79	87.8	12.2
5	100.000	7	7.78	85	94.4	5.6	86	95.6	4.4
6	150.000	4	4.44	89	98.9	1.1	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	1	0	0	89	90	90	VALUES
0.0	0.0	0.0	0.0	1.1	0.0	0.0	98.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	150.00	52.472	29.51	46.200	1.64	89



Each increment (each X or | plotted) = 1.000 %

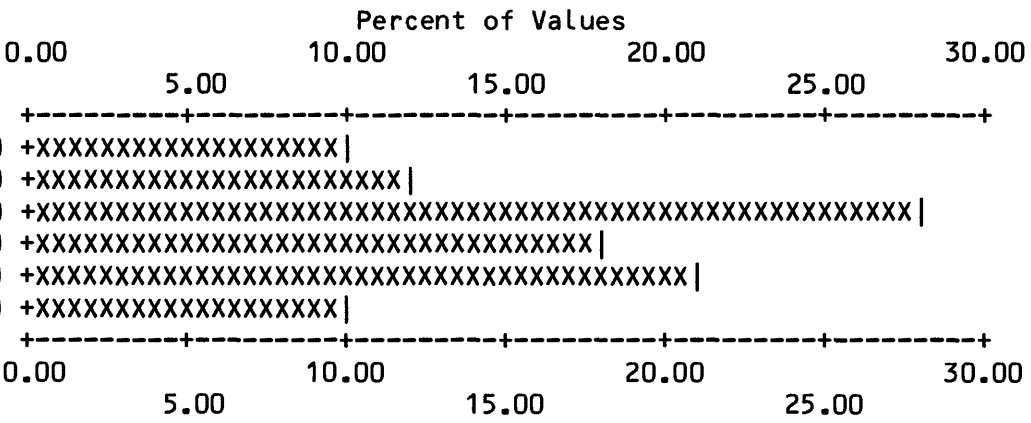
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-SN

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	20.000	9	10.00	9	10.0	90.0	10	11.1	88.9
2	30.000	11	12.22	20	22.2	77.8	21	23.3	76.7
3	50.000	25	27.78	45	50.0	50.0	46	51.1	48.9
4	70.000	16	17.78	61	67.8	32.2	62	68.9	31.1
5	100.000	19	21.11	80	88.9	11.1	81	90.0	10.0
6	150.000	9	10.00	89	98.9	1.1	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	1	0	0	89	90	90	VALUES
0.0	0.0	0.0	0.0	1.1	0.0	0.0	98.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	150.00	68.876	37.64	58.897	1.79	89



Each increment (each X or | plotted) = 0.500 %

Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-SR

NO UNQUALIFIED VALUES FOUND

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	86	4	0	0	0	90	90	VALUES
0.0	0.0	0.0	95.6	4.4	0.0	0.0	0.0			PERCENT

Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-TH

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	200.000	5	5.56	5	5.6	94.4	7	7.8	92.2
2	300.000	5	5.56	10	11.1	88.9	12	13.3	86.7
3	500.000	18	20.00	28	31.1	68.9	30	33.3	66.7
4	700.000	10	11.11	38	42.2	57.8	40	44.4	55.6
5	1000.000	11	12.22	49	54.4	45.6	51	56.7	43.3
6	1500.000	11	12.22	60	66.7	33.3	62	68.9	31.1
7	2000.000	9	10.00	69	76.7	23.3	71	78.9	21.1
8	3000.000	4	4.44	73	81.1	18.9	75	83.3	16.7
9	5000.000	11	12.22	84	93.3	6.7	86	95.6	4.4

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	2	4	0	84	90	90	VALUES
0.0	0.0	0.0	0.0	2.2	4.4	0.0	93.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
200.000	5000.00	1559.524	1507.02	1032.496	2.50	84

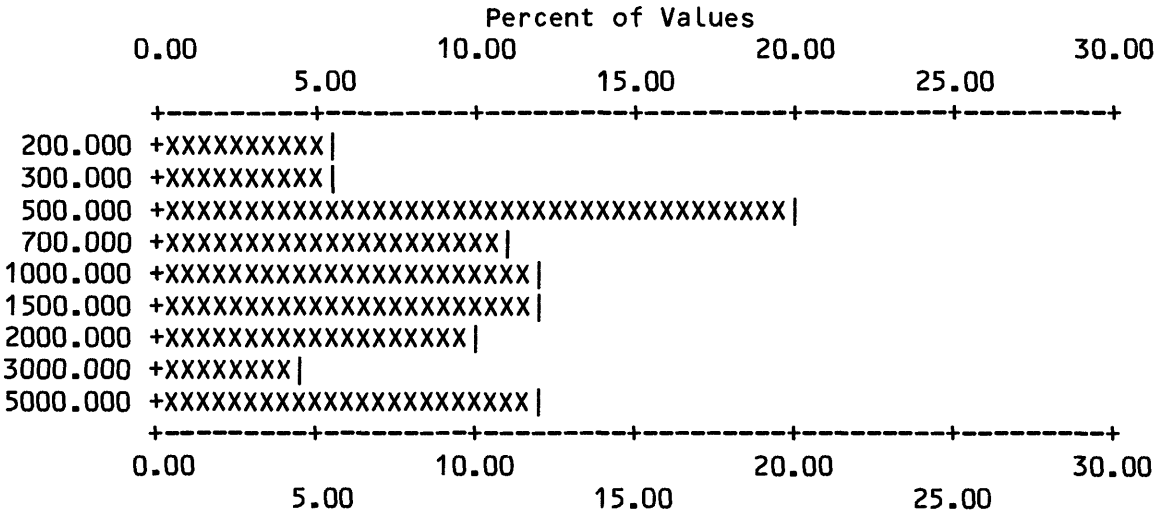


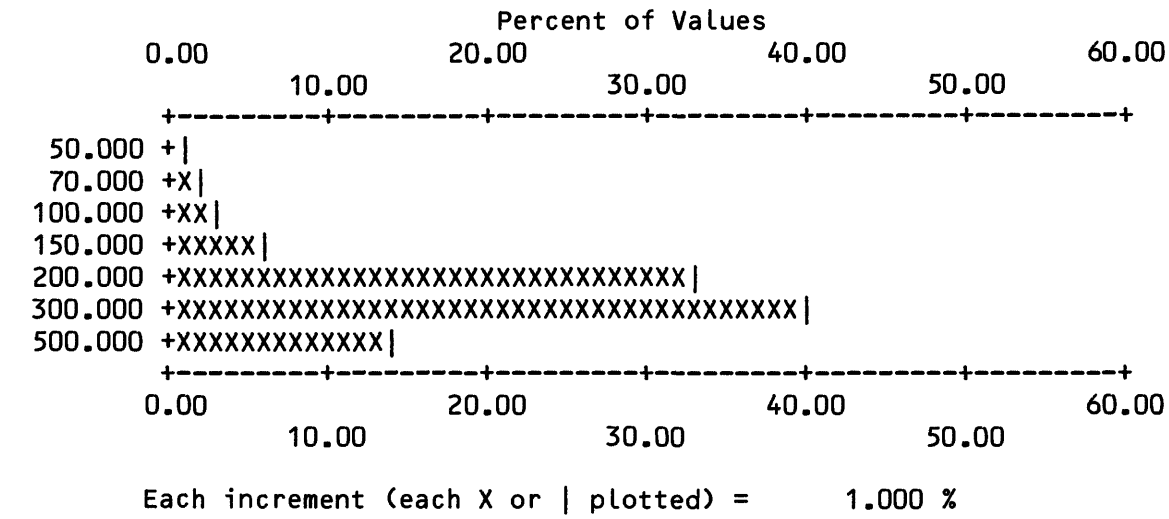
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-V

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	50.000	1	1.11	1	1.1	98.9	1	1.1	98.9
2	70.000	2	2.22	3	3.3	96.7	3	3.3	96.7
3	100.000	3	3.33	6	6.7	93.3	6	6.7	93.3
4	150.000	5	5.56	11	12.2	87.8	11	12.2	87.8
5	200.000	30	33.33	41	45.6	54.4	41	45.6	54.4
6	300.000	36	40.00	77	85.6	14.4	77	85.6	14.4
7	500.000	13	14.44	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
50.000	500.00	272.667	113.85	248.399	1.58	90



Each increment (each X or | plotted) = 1.000 %

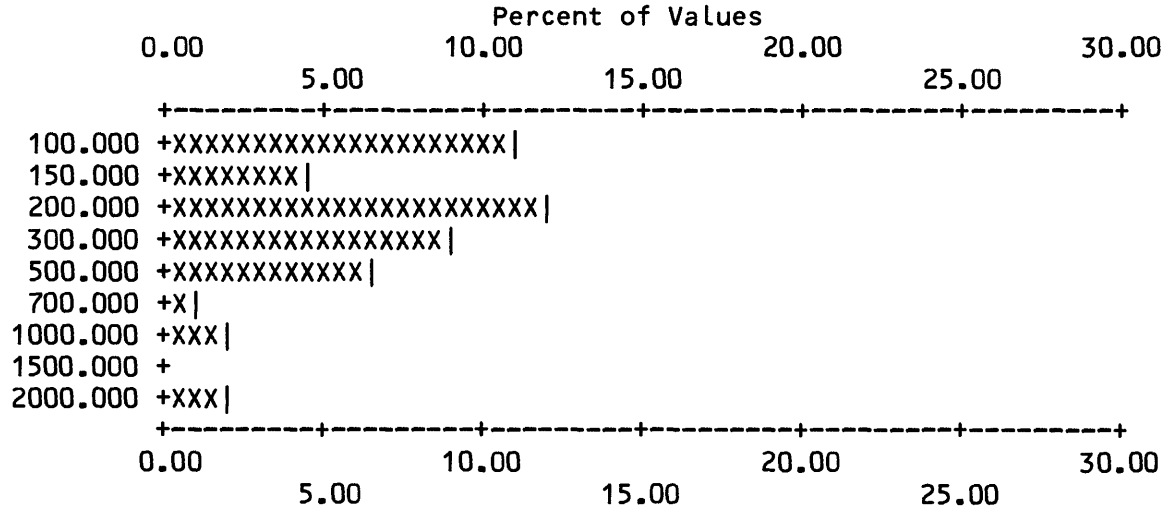
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-W

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	100.000	10	11.11	10	11.1	88.9	56	62.2	37.8
2	150.000	4	4.44	14	15.6	84.4	60	66.7	33.3
3	200.000	11	12.22	25	27.8	72.2	71	78.9	21.1
4	300.000	8	8.89	33	36.7	63.3	79	87.8	12.2
5	500.000	6	6.67	39	43.3	56.7	85	94.4	5.6
6	700.000	1	1.11	40	44.4	55.6	86	95.6	4.4
7	1000.000	2	2.22	42	46.7	53.3	88	97.8	2.2
8	2000.000	2	2.22	44	48.9	51.1	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	35	11	0	0	44	90	90	VALUES
0.0	0.0	0.0	38.9	12.2	0.0	0.0	48.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	2000.00	361.364	420.25	249.533	2.20	44



Each increment (each X or | plotted) = 0.500 %

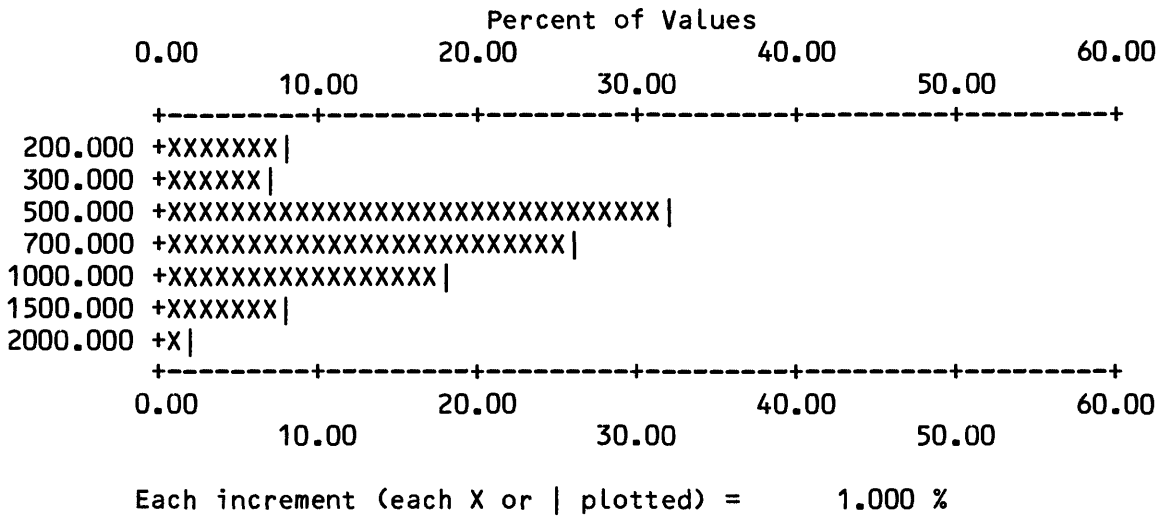
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-Y

	VALUE	NO.	%	CUM.	CUM. %		TOT CUM	TOT CUM %	
1	200.000	7	7.78	7	7.8	92.2	7	7.8	92.2
2	300.000	6	6.67	13	14.4	85.6	13	14.4	85.6
3	500.000	29	32.22	42	46.7	53.3	42	46.7	53.3
4	700.000	23	25.56	65	72.2	27.8	65	72.2	27.8
5	1000.000	16	17.78	81	90.0	10.0	81	90.0	10.0
6	1500.000	7	7.78	88	97.8	2.2	88	97.8	2.2
7	2000.000	2	2.22	90	100.0	0.0	90	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	0	0	90	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
200.000	2000.00	714.444	384.40	623.129	1.71	90



Each increment (each X or | plotted) = 1.000 %

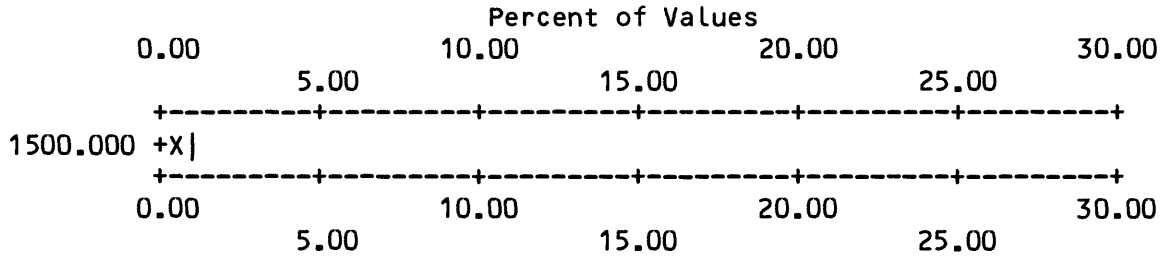
Table 6. Frequency tables and histograms for heavy-mineral concentrate samples - (continued)

S-ZR

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	1500.000	1	1.11	1	1.1 98.9	1	1.1 98.9

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	
0	0	0	0	0	89	0	1	90	90	VALUES
0.0	0.0	0.0	0.0	0.0	98.9	0.0	1.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1500.000	1500.00	1500.000	0.00	1500.000	********	1



Each increment (each X or | plotted) = 0.500 %

Table 7. Data for rock samples

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BI601RK	37 15 14	118 26 55	371,526	4,123,830	1.50	2.0	1.00	.30	N	10	1,500	1.0
BI602RK	37 15 41	118 27 36	370,532	4,124,680	2.00	3.0	1.00	.30	N	<10	1,000	1.0
BI603RK	37 16 25	118 26 41	371,901	4,126,010	3.00	3.0	1.50	.30	N	15	1,000	1.0
BI604RK	37 16 29	118 26 42	371,883	4,126,130	2.00	2.0	.70	.20	N	20	1,000	1.5
BI605RK	37 16 42	118 25 32	373,621	4,126,490	.10	.5	.07	.07	N	10	50	2.0
BI606RK	37 16 41	118 25 25	373,782	4,126,470	.10	.7	.10	.15	N	15	100	3.0
BI802RK	37 18 35	118 27 51	370,245	4,130,040	1.00	1.0	.20	.15	N	20	1,500	1.0
BI803RK	37 18 57	118 26 41	371,990	4,130,670	.30	.5	.02	.50	<.5	10	30	<1.0
BI804RK	37 19 5	118 25 29	373,746	4,130,910	.70	10.0	1.00	1.00	N	20	300	1.5
BI805RK	37 18 36	118 24 49	374,738	4,129,990	.20	.5	.07	.10	N	10	150	2.0
BI806RK	37 17 59	118 24 37	375,014	4,128,860	.15	.7	.10	.05	N	10	150	3.0
BI807RK	37 17 8	118 24 24	375,299	4,127,290	.20	.7	.15	.15	N	10	150	1.5
BI808RK	37 16 17	118 23 34	376,517	4,125,680	.30	.7	.10	.10	N	10	200	3.0
BI809RK	37 15 28	118 23 9	377,112	4,124,160	.20	.5	.05	.05	N	15	100	5.0
BI810RK	37 15 3	118 28 50	368,701	4,123,520	2.00	5.0	1.00	.30	N	10	700	1.5
BI812RK	37 18 11	118 28 21	369,498	4,129,310	1.00	1.5	.70	.20	N	15	2,000	1.0
BI814RK	37 18 12	118 28 27	369,356	4,129,350	10.00	7.0	2.00	.10	N	<10	150	<1.0
BI815RK	37 18 10	118 28 30	369,273	4,129,260	1.00	5.0	2.00	.30	N	70	500	1.5
BI816RK	37 17 49	118 25 32	373,645	4,128,550	.20	.3	.03	.05	N	10	100	2.0
BP001RK	37 14 40	118 27 34	370,542	4,122,790	1.00	1.5	.70	.20	1.5	10	1,000	1.5
BP002RK	37 14 38	118 27 30	370,658	4,122,730	1.00	2.0	.50	.20	N	10	1,000	1.0
BP008RK	37 13 13	118 25 0	374,317	4,120,050	.70	1.5	.50	.20	N	15	1,000	2.0
BP009RK	37 13 8	118 25 0	374,311	4,119,900	.70	1.0	.30	.10	N	15	1,000	2.0
BP102RK	37 10 5	118 26 21	372,214	4,114,280	.20	.7	.05	.07	N	15	300	2.0
BP104RK	37 8 45	118 23 14	376,797	4,111,750	.50	1.5	.50	.20	N	10	1,500	2.0
BP105RK	37 8 48	118 23 16	376,759	4,111,840	1.00	1.5	.30	.30	N	10	1,000	2.0
BP106RK	37 8 34	118 22 14	378,277	4,111,380	1.00	1.5	.20	.20	N	10	700	3.0
BP108RK	37 9 1	118 21 21	379,593	4,112,190	.10	.5	.10	.07	N	10	50	2.0
BP109RK	37 8 59	118 21 23	379,554	4,112,130	.10	.5	.03	.07	N	10	200	2.0
BP111RK	37 14 29	118 25 5	374,233	4,122,390	1.00	1.0	.15	.15	N	<10	1,500	1.5
BP112RK	37 14 24	118 25 4	374,250	4,122,240	1.00	1.0	.20	.20	N	10	1,500	1.5
BP113RK	37 14 23	118 24 2	375,771	4,122,200	.70	.7	.10	.10	N	15	700	3.0
BP303RK	37 9 36	118 25 43	373,145	4,113,390	.30	1.0	.50	.30	N	10	100	3.0
BP305RK	37 9 27	118 25 3	374,121	4,113,090	.70	1.0	.30	.15	N	10	1,000	3.0
BP306RK	37 9 24	118 25 2	374,145	4,112,980	1.00	1.0	.30	.20	N	15	1,000	3.0
BP307RK	37 10 34	118 25 12	373,935	4,115,150	.20	.7	.10	.10	N	15	300	3.0
BP308RK	37 9 26	118 23 55	375,817	4,113,020	.30	1.5	.50	.20	N	20	1,000	2.0
BP309RK	37 9 23	118 23 58	375,743	4,112,930	.30	2.0	.50	.30	N	10	1,000	1.5
BP310RK	37 10 40	118 22 14	378,341	4,115,260	.50	.7	.20	.15	N	10	1,000	2.0
BP311RK	37 9 47	118 21 51	378,879	4,113,620	.10	.7	.15	.10	N	10	200	2.0
BP312RK	37 9 33	118 21 1	380,115	4,113,190	.10	.5	.10	.05	N	10	200	2.0
BP313RK	37 9 59	118 20 47	380,458	4,113,960	.07	.3	.07	.05	N	10	200	3.0
BP801RK	37 12 22	118 23 25	376,639	4,118,450	.30	1.0	.20	.15	N	10	1,000	3.0
BP802RK	37 12 27	118 23 27	376,569	4,118,590	7.00	5.0	.20	.07	N	10	100	10.0
BP806RK	37 13 9	118 23 5	377,135	4,119,880	2.00	5.0	1.50	.70	N	20	1,000	1.0

Table 7. Data for rock samples - (continued)

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s
BI601RK	10	N	20	20	1,000	N	N	5	20	15	N
BI602RK	10	10	7	30	1,000	<5	N	5	30	10	N
BI603RK	20	N	5	20	1,000	5	N	7	30	15	N
BI604RK	15	10	10	50	1,000	N	N	5	20	10	N
BI605RK	N	N	N	30	700	N	<20	7	30	7	N
BI606RK	N	N	<5	70	700	N	20	5	50	10	N
BI802RK	N	N	5	50	200	N	N	5	30	5	N
BI803RK	N	70	10	30	10	10	<20	<5	<10	10	N
BI804RK	30	150	30	50	1,000	7	<20	30	70	30	N
BI805RK	N	N	N	70	200	N	<20	N	20	5	N
BI806RK	N	N	N	30	700	N	N	<5	30	7	N
BI807RK	N	N	N	50	1,000	N	<20	<5	30	7	N
BI808RK	N	N	N	N	1,500	N	N	<5	50	10	N
BI809RK	N	N	N	N	1,500	N	N	<5	30	7	N
BI810RK	15	N	10	100	700	N	N	5	30	15	N
BI812RK	7	N	5	70	500	5	N	<5	20	10	N
BI814RK	10	<10	<5	20	5,000	10	N	15	20	<5	15
BI815RK	10	100	15	30	500	<5	N	20	20	15	N
BI816RK	N	N	N	50	300	N	N	N	30	<5	N
BP001RK	10	<10	50	30	700	N	N	5	30	10	N
BP002RK	7	N	<5	70	500	N	N	5	50	7	N
BP008RK	7	15	<5	70	500	N	<20	5	30	7	N
BP009RK	N	N	<5	100	500	N	N	5	50	5	N
BP102RK	N	N	N	70	1,000	N	<20	<5	20	7	N
BP104RK	7	N	N	70	1,000	N	<20	N	20	10	N
BP105RK	5	N	N	100	1,000	N	<20	<5	20	10	N
BP106RK	5	N	N	50	700	N	<20	<5	15	10	N
BP108RK	N	N	N	100	200	N	N	<5	<10	7	N
BP109RK	N	N	<5	20	300	N	N	N	20	5	N
BP111RK	N	N	N	70	300	N	N	<5	30	5	N
BP112RK	<5	N	<5	100	300	N	N	<5	30	5	N
BP113RK	N	N	N	50	200	N	<20	N	50	5	N
BP303RK	N	N	N	70	100	N	<20	5	10	10	N
BP305RK	N	N	<5	70	1,000	N	N	N	20	7	N
BP306RK	5	N	<5	100	700	N	<20	5	20	10	N
BP307RK	N	N	N	100	300	N	<20	N	15	7	N
BP308RK	<5	N	<5	70	500	7	<20	5	15	10	N
BP309RK	N	<10	N	70	300	N	<20	N	<10	10	N
BP310RK	N	N	N	70	500	N	N	N	15	7	N
BP311RK	N	N	N	50	150	N	20	<5	10	7	N
BP312RK	N	N	N	30	70	N	<20	N	15	7	N
BP313RK	N	N	N	50	70	N	N	N	10	7	N
BP801RK	N	N	N	100	500	N	<20	<5	20	10	N
BP802RK	10	<10	<5	<20	>5,000	200	20	N	10	10	100
BP806RK	30	30	70	50	1,000	N	N	15	20	20	N

Table 7. Data for rock samples - (continued)

Sample	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Zn-ppm aa	U-INST
BI601RK	700	N	70	N	20	<200	50	N	50	.43
BI602RK	500	N	100	<50	20	N	70	.003	30	.76
BI603RK	700	N	100	N	20	N	100	N	35	.37
BI604RK	500	N	100	N	15	<200	100	N	70	.81
BI605RK	N	N	<10	N	20	N	150	N	25	N
BI606RK	N	N	<10	N	30	<200	70	N	45	N
BI802RK	200	N	20	N	<10	N	100	N	15	N
BI803RK	200	N	50	N	10	N	200	.002	<5	N
BI804RK	200	N	200	50	50	N	200	N	55	.16
BI805RK	N	N	10	N	15	N	200	N	<5	.50
BI806RK	N	N	<10	N	20	N	100	.002	10	.34
BI807RK	N	N	10	N	15	N	50	N	10	N
BI808RK	<100	N	10	N	20	N	100	N	10	.16
BI809RK	N	N	10	N	15	N	20	N	10	.22
BI810RK	700	N	100	N	20	N	200	N	35	.60
BI812RK	200	N	70	N	20	N	150	N	40	.80
BI814RK	500	N	200	200	15	300	50	N	55	.46
BI815RK	200	N	150	N	15	N	100	.003	65	N
BI816RK	N	N	<10	N	10	N	50	N	10	.10
BP001RK	700	N	70	N	20	N	150	N	50	3.20
BP002RK	500	N	50	N	15	N	100	N	30	N
BP008RK	300	N	50	N	20	N	200	.004	25	.70
BP009RK	500	N	30	N	15	N	100	N	30	1.10
BP102RK	N	N	<10	N	15	N	50	N	20	.25
BP104RK	300	N	50	N	50	N	300	N	30	1.10
BP105RK	300	N	50	N	20	N	150	N	25	1.70
BP106RK	200	N	20	N	20	N	150	N	30	1.80
BP108RK	N	N	<10	N	10	N	100	N	10	1.10
BP109RK	N	N	<10	N	15	N	50	N	15	.93
BP111RK	500	N	30	N	<10	N	150	N	40	.84
BP112RK	500	N	50	N	<10	N	150	.002	60	.93
BP113RK	200	N	20	N	15	N	150	N	25	9.10
BP303RK	200	N	30	N	30	N	150	N	10	.93
BP305RK	200	N	20	N	20	N	100	N	40	1.40
BP306RK	300	N	30	N	30	N	150	N	40	1.10
BP307RK	N	N	10	N	15	N	100	N	20	1.80
BP308RK	200	N	30	N	30	N	150	N	20	2.40
BP309RK	200	N	30	N	30	N	200	N	20	1.10
BP310RK	150	N	20	N	15	N	30	N	25	.93
BP311RK	N	N	10	N	20	N	100	N	15	1.80
BP312RK	N	N	<10	N	20	N	150	N	5	2.20
BP313RK	N	N	<10	N	15	N	100	N	10	3.50
BP801RK	150	N	20	N	30	N	70	N	30	1.10
BP802RK	<100	N	50	300	20	N	50	N	30	2.40
BP806RK	500	N	150	N	20	<200	200	N	40	.72

Table 7. Data for rock samples - (continued)

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BP807RK	37 12 43	118 21 58	378,772	4,119,050	.20	.7	.05	.05	N	10	200	2.0
BP808RK	37 11 55	118 21 15	379,821	4,117,570	.70	1.0	.30	.20	N	10	1,000	2.0
MG001RK	37 11 56	118 30 59	365,415	4,117,810	20.00	.2	3.00	.05	N	N	100	N
MG003RK	37 9 23	118 30 20	366,310	4,113,070	.50	.7	.10	.07	.5	<10	700	2.0
MG004RK	37 10 19	118 32 36	362,994	4,114,840	2.00	5.0	2.00	.30	N	N	1,500	<1.0
MG005RK	37 9 29	118 34 25	360,277	4,113,360	2.00	2.0	1.50	.50	N	10	1,000	1.0
MG006RK	37 9 27	118 34 15	360,518	4,113,290	1.50	3.0	1.50	.50	N	10	1,000	1.0
MG007RK	37 9 58	118 33 53	361,079	4,114,230	1.50	2.0	1.00	.30	N	15	700	1.0
MG008RK	37 9 37	118 34 3	360,823	4,113,590	1.00	2.0	1.00	.20	N	10	1,000	1.5
MG009RK	37 13 24	118 30 59	365,463	4,120,510	.50	3.0	1.50	.50	N	200	500	1.0
MG012RK	37 14 18	118 32 40	363,016	4,122,230	.50	1.5	.70	.20	N	<10	1,500	1.0
MG102RK	37 13 16	118 36 21	357,516	4,120,400	1.50	3.0	1.50	.50	N	10	1,000	1.0
MG801RK	37 14 9	118 33 37	361,597	4,121,980	.30	1.0	.70	.15	N	10	1,000	2.0
MG803RK	37 13 7	118 34 0	360,996	4,120,060	.50	.5	.30	.10	1.0	<10	200	1.0
MG804RK	37 13 1	118 33 56	361,085	4,119,890	.20	.5	.20	.10	N	10	70	2.0
MG805RK	37 11 44	118 34 1	360,935	4,117,520	1.50	2.0	1.00	.20	N	10	1,000	1.0
MG806RK	37 11 5	118 33 21	361,899	4,116,290	1.50	5.0	1.50	.50	N	15	1,000	1.0
MG807RK	37 11 21	118 33 18	361,973	4,116,780	2.00	3.0	1.00	.30	N	15	1,000	1.0
MG809RK	37 11 41	118 33 33	361,610	4,117,420	1.50	2.0	1.00	.30	N	10	700	1.0

Table 7. Data for rock samples - (continued)

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sn-ppm s
BP807RK	N	N	N	70	200	N	N	N	20	7	N
BP808RK	<5	N	10	30	1,000	N	N	N	20	7	N
MG001RK	N	N	<5	N	200	N	N	N	15	N	N
MG003RK	N	N	N	<20	300	N	N	5	30	5	N
MG004RK	20	20	20	50	1,000	7	N	10	20	20	N
MG005RK	30	15	7	50	500	N	N	15	20	20	N
MG006RK	20	15	20	30	700	N	N	10	20	20	N
MG007RK	20	15	10	50	700	50	<20	10	30	15	N
MG008RK	15	10	10	30	700	N	N	10	30	15	N
MG009RK	10	70	15	70	500	N	<20	30	10	20	N
MG012RK	10	N	<5	100	1,000	N	N	5	30	10	N
MG102RK	20	20	20	30	1,000	N	N	10	30	15	N
MG801RK	7	N	N	50	300	N	N	5	15	7	N
MG803RK	N	10	15	<20	100	N	N	N	10	10	N
MG804RK	N	N	5	150	100	N	<20	7	<10	5	N
MG805RK	20	N	10	50	1,000	N	N	7	50	10	N
MG806RK	30	15	30	70	1,000	<5	N	15	30	20	N
MG807RK	20	20	15	70	1,000	N	N	7	30	10	N
MG809RK	20	15	20	30	1,000	N	N	10	30	20	N

Table 7. Data for rock samples - (continued)

Sample	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Zn-ppm aa	U-INST
BP807RK	N	N	<10	N	10	N	50	N	10	.67
BP808RK	200	N	30	N	15	N	100	N	50	.84
MG001RK	1,000	N	20	N	<10	N	20	.002	15	.27
MG003RK	100	N	10	N	20	N	70	.002	10	.88
MG004RK	700	N	150	N	20	<200	150	N	40	1.20
MG005RK	500	N	150	N	15	<200	70	N	40	3.70
MG006RK	500	N	100	N	20	<200	50	.003	40	3.10
MG007RK	500	N	100	N	50	N	70	N	35	4.30
MG008RK	500	<100	100	N	15	<200	20	.004	40	2.70
MG009RK	150	N	100	N	20	<200	100	.002	60	.43
MG012RK	300	N	70	N	20	N	150	N	35	1.30
MG102RK	700	N	100	N	20	N	100	N	60	.44
MG801RK	200	N	50	N	15	N	70	.002	15	4.50
MG803RK	N	N	20	N	15	N	50	.002	5	.05
MG804RK	100	N	10	N	30	N	150	.003	10	2.40
MG805RK	500	N	100	N	20	N	100	N	45	.42
MG806RK	500	N	150	N	20	N	150	N	55	1.10
MG807RK	500	N	100	N	20	N	100	N	45	.59
MG809RK	700	N	100	N	20	N	100	N	50	.36

Table 8. Data for stream-sediment samples

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BI601SS	37 15 14	118 26 55	371,526	4,123,830	1.0	3.0	.7	.20	N	<10	500	1.5
BI602SS	37 15 41	118 27 36	370,532	4,124,680	1.5	1.5	1.0	.30	N	15	500	1.5
BI603SS	37 16 25	118 26 41	371,901	4,126,010	1.5	3.0	.7	.30	N	10	500	<1.0
BI604SS	37 16 29	118 26 42	371,883	4,126,130	1.5	3.0	1.0	.30	N	10	500	1.0
BI605SS	37 16 42	118 25 32	373,621	4,126,490	1.0	7.0	.5	.30	N	<10	500	1.0
BI606SS	37 16 41	118 25 25	373,782	4,126,470	.7	2.0	.5	.20	N	20	300	2.0
BI801SS	37 18 41	118 27 56	370,120	4,130,230	1.5	3.0	1.0	.50	N	20	700	1.0
BI802SS	37 18 35	118 27 51	370,245	4,130,040	1.5	5.0	1.5	.50	N	20	700	1.0
BI803SS	37 18 57	118 26 41	371,990	4,130,670	1.0	5.0	.7	.50	N	30	500	1.5
BI804SS	37 19 5	118 25 29	373,746	4,130,910	1.0	5.0	.7	.50	N	20	300	1.5
BI805SS	37 18 36	118 24 49	374,738	4,129,990	.2	10.0	.2	.50	N	10	300	1.0
BI806SS	37 17 59	118 24 37	375,014	4,128,860	.7	1.5	.3	.20	N	20	500	2.0
BI807SS	37 17 8	118 24 24	375,299	4,127,290	1.0	2.0	1.0	.30	<.5	15	700	1.5
BI808SS	37 16 17	118 23 34	376,517	4,125,680	.7	2.0	.3	.20	N	15	500	3.0
BI809SS	37 15 28	118 23 9	377,112	4,124,160	1.5	10.0	1.5	.70	N	15	300	1.0
BI810SS	37 15 3	118 28 50	368,701	4,123,520	2.0	2.0	1.0	.20	N	30	700	1.0
BI811SS	37 15 3	118 28 42	368,902	4,123,520	1.5	2.0	.7	.30	N	15	500	1.0
BI812SS	37 18 11	118 28 21	369,498	4,129,310	1.0	1.5	.7	.30	N	15	500	1.5
BI813SS	37 18 14	118 28 32	369,224	4,129,390	1.0	2.0	1.0	.20	N	15	500	1.5
BI816SS	37 17 49	118 25 32	373,645	4,128,550	.5	2.0	.3	.20	N	10	300	2.0
BI817SS	37 17 52	118 25 38	373,509	4,128,650	.7	1.0	.3	.15	N	20	300	2.0
BP001SS	37 14 40	118 27 34	370,542	4,122,790	1.0	5.0	.5	.50	N	10	500	1.0
BP002SS	37 14 38	118 27 30	370,658	4,122,730	1.0	15.0	.5	.50	N	<10	500	1.0
BP003SS	37 11 0	118 29 55	366,977	4,116,060	1.5	5.0	1.5	.50	N	15	500	1.5
BP004SS	37 11 11	118 26 42	371,747	4,116,320	.7	10.0	.7	.50	N	15	500	1.0
BP005SS	37 12 9	118 28 1	369,812	4,118,140	1.5	5.0	1.0	.50	N	15	500	1.0
BP006SS	37 13 17	118 28 50	368,640	4,120,260	2.0	5.0	1.0	.70	N	15	500	1.0
BP007SS	37 14 0	118 28 41	368,886	4,121,570	1.5	2.0	1.0	.50	N	15	500	1.0
BP008SS	37 13 13	118 25 0	374,317	4,120,050	1.5	3.0	1.0	.50	N	20	700	1.0
BP009SS	37 13 8	118 25 0	374,311	4,119,900	1.0	7.0	.5	.30	N	10	500	1.5
BP102SS	37 10 5	118 26 21	372,214	4,114,280	1.0	3.0	.7	.50	N	15	500	1.0
BP103SS	37 8 2	118 26 23	372,111	4,110,490	1.0	10.0	.7	.70	N	10	500	<1.0
BP104SS	37 8 45	118 23 14	376,797	4,111,750	1.0	7.0	.7	.50	N	15	500	1.0
BP105SS	37 8 48	118 23 16	376,759	4,111,840	1.0	5.0	1.0	.50	N	15	500	1.5
BP106SS	37 8 34	118 22 14	378,277	4,111,380	1.0	3.0	.7	.50	N	15	500	1.0
BP107SS	37 8 37	118 22 16	378,224	4,111,490	1.0	5.0	.7	.50	N	15	300	1.0
BP108SS	37 9 1	118 21 21	379,593	4,112,190	.3	20.0	.2	.50	N	10	200	<1.0
BP109SS	37 8 59	118 21 23	379,554	4,112,130	1.0	7.0	.7	.50	N	10	300	1.0
BP110SS	37 8 47	118 20 57	380,187	4,111,770	.5	20.0	.5	1.00	N	<10	200	<1.0
BP111SS	37 14 29	118 25 5	374,233	4,122,390	1.0	1.5	.3	.30	N	15	500	2.0
BP112SS	37 14 24	118 25 4	374,250	4,122,240	1.0	7.0	.2	.30	N	10	300	1.5
BP113SS	37 14 23	118 24 2	375,771	4,122,200	1.0	2.0	.7	.30	N	10	500	1.5
BP114SS	37 14 38	118 22 46	377,658	4,122,620	1.0	2.0	.3	.20	N	15	300	2.0
BP115SS	37 11 54	118 21 0	380,199	4,117,530	1.5	5.0	1.0	.50	N	15	500	1.0
BP116SS	37 13 36	118 22 48	377,625	4,120,740	1.0	10.0	.7	.30	N	10	500	1.0

Table 8. Data for stream-sediment samples - (continued)

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
BI601SS	N	N	10	30	10	50	700	N	<20	5	30	10
BI602SS	N	N	10	10	<5	70	700	<5	N	N	20	15
BI603SS	N	N	15	20	10	100	700	<5	20	<5	20	20
BI604SS	N	N	15	15	30	100	1,000	N	N	7	20	15
BI605SS	N	N	15	30	10	150	1,000	N	<20	N	20	10
BI606SS	N	N	5	10	7	70	1,500	5	<20	5	30	10
BI801SS	N	N	20	30	20	100	1,000	N	<20	10	30	20
BI802SS	N	N	20	30	30	200	1,000	N	<20	20	50	30
BI803SS	N	N	15	50	15	100	1,500	N	<20	15	20	15
BI804SS	N	N	20	50	30	100	1,000	7	<20	20	20	20
BI805SS	N	N	10	30	5	500	3,000	N	30	7	30	10
BI806SS	N	N	5	15	5	70	1,500	N	20	<5	30	10
BI807SS	N	N	15	20	15	70	1,000	N	<20	7	30	15
BI808SS	N	N	7	15	7	70	1,500	N	<20	5	50	10
BI809SS	N	N	30	30	20	100	2,000	N	<20	10	30	20
BI810SS	N	N	10	50	10	30	700	N	N	10	15	15
BI811SS	N	N	15	20	10	50	1,000	<5	<20	10	20	10
BI812SS	N	N	15	30	10	70	700	N	<20	10	20	15
BI813SS	N	N	15	50	7	70	1,000	N	<20	15	20	15
BI816SS	N	N	5	<10	5	50	2,000	N	20	5	30	10
BI817SS	N	N	N	N	5	50	1,000	<5	<20	7	20	7
BP001SS	<10	N	10	20	10	100	1,000	N	20	<5	50	15
BP002SS	N	N	20	50	20	150	1,000	N	<20	N	30	20
BP003SS	N	N	20	50	20	70	1,000	N	N	20	20	20
BP004SS	N	N	10	30	15	100	2,000	N	<20	<5	20	15
BP005SS	N	N	20	30	15	100	1,000	N	N	15	30	15
BP006SS	N	N	15	30	5	100	1,500	<5	<20	7	20	20
BP007SS	N	N	10	30	5	100	1,000	<5	N	5	20	15
BP008SS	N	N	15	20	10	100	1,000	<5	<20	5	50	15
BP009SS	N	N	10	50	15	150	1,000	N	<20	N	50	10
BP102SS	N	N	10	20	5	150	1,500	N	20	5	20	15
BP103SS	N	N	15	70	10	100	2,000	N	<20	5	30	10
BP104SS	N	N	30	70	20	100	1,000	N	<20	10	30	20
BP105SS	N	N	10	30	10	100	1,500	N	<20	5	20	15
BP106SS	N	N	20	50	10	100	1,000	N	<20	10	20	15
BP107SS	N	N	20	70	7	150	1,000	N	20	10	15	20
BP108SS	N	N	20	70	7	500	3,000	N	20	10	20	10
BP109SS	N	N	20	50	5	200	1,000	<5	20	15	30	20
BP110SS	N	N	50	200	10	200	2,000	N	<20	20	15	7
BP111SS	N	N	10	10	5	100	700	<5	<20	5	50	10
BP112SS	N	N	15	30	7	150	700	5	20	N	20	10
BP113SS	N	N	10	10	7	100	700	<5	<20	5	30	10
BP114SS	N	N	7	N	5	100	700	7	<20	5	50	10
BP115SS	N	N	20	70	15	150	1,500	N	20	10	50	20
BP116SS	N	N	20	70	20	200	1,000	N	20	10	30	15

Table 8. Data for stream-sediment samples - (continued)

Sample	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Zn-ppm aa	U-INST
BI601SS	N	500	N	100	N	20	N	150	N	45	4.20
BI602SS	N	500	N	70	N	15	N	300	N	30	.40
BI603SS	N	500	<100	100	N	50	N	300	N	30	6.60
BI604SS	N	500	N	100	N	20	N	100	N	120	2.20
BI605SS	N	500	<100	200	N	50	N	300	N	40	7.20
BI606SS	N	200	N	50	N	20	N	150	N	55	.40
BI801SS	N	500	N	100	N	30	N	300	.002	85	.80
BI802SS	N	500	N	150	N	50	N	200	N	85	2.00
BI803SS	N	200	N	100	N	70	N	500	.002	50	.20
BI804SS	N	300	N	100	50	50	N	200	N	40	1.00
BI805SS	N	150	100	150	N	100	N	1,000	N	35	7.20
BI806SS	N	200	N	50	N	30	N	300	N	30	.33
BI807SS	N	500	N	100	N	20	N	150	N	100	8.20
BI808SS	N	200	N	50	N	30	N	150	N	45	11.20
BI809SS	N	300	N	200	N	70	N	200	N	45	2.20
BI810SS	N	300	N	100	N	20	<200	100	N	50	2.70
BI811SS	N	500	N	100	N	20	N	200	N	40	12.60
BI812SS	N	300	N	70	N	30	N	200	N	60	.43
BI813SS	N	500	N	100	N	20	N	200	N	45	1.00
BI816SS	N	300	N	70	N	30	N	150	N	40	.63
BI817SS	N	200	N	30	N	30	N	150	N	45	N
BP001SS	<10	500	N	100	N	50	N	200	N	40	3.20
BP002SS	N	300	150	300	N	70	N	300	N	45	14.20
BP003SS	N	500	N	150	N	20	N	100	N	55	.53
BP004SS	N	300	N	200	N	30	N	500	N	40	3.00
BP005SS	N	500	N	150	N	20	<200	150	.030	70	2.00
BP006SS	N	500	N	150	N	50	N	500	N	25	11.20
BP007SS	N	500	N	100	N	20	N	200	.006	15	6.60
BP008SS	N	500	N	100	N	20	N	200	N	75	5.00
BP009SS	N	300	<100	150	<50	30	N	300	.005	75	11.60
BP102SS	N	300	N	100	N	30	N	200	.002	20	7.20
BP103SS	N	200	N	300	N	20	N	1,000	N	35	2.60
BP104SS	N	300	N	200	N	30	N	500	N	40	4.00
BP105SS	N	300	N	100	N	30	N	300	N	45	23.00
BP106SS	<10	300	N	100	N	30	N	500	N	40	1.40
BP107SS	N	300	N	150	N	30	N	300	.030	30	3.70
BP108SS	N	100	<100	150	N	100	<200	>1,000	N	30	9.10
BP109SS	N	300	N	150	N	50	N	700	N	20	3.10
BP110SS	N	200	<100	700	N	70	<200	>1,000	N	20	8.00
BP111SS	N	500	N	50	N	20	N	200	N	85	2.50
BP112SS	N	200	<100	100	N	50	N	300	.003	55	4.50
BP113SS	N	500	N	70	N	30	N	200	N	85	25.40
BP114SS	N	300	N	70	N	15	N	100	.003	35	16.80
BP115SS	N	500	N	100	N	50	N	500	.002	65	5.10
BP116SS	N	300	<100	200	N	50	N	700	.009	55	9.40

Table 8. Data for stream-sediment samples - (continued)

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BP117SS	37 9 59	118 29 11	368,018	4,114,160	1.5	1.5	.5	.30	N	20	300	1.5
BP301SS	37 10 1	118 26 22	372,199	4,114,150	1.0	1.5	.5	.30	N	15	500	1.5
BP302SS	37 9 25	118 27 1	371,225	4,113,070	.5	1.5	.2	.15	N	20	500	2.0
BP303SS	37 9 36	118 25 43	373,145	4,113,390	1.0	2.0	.5	.30	N	20	200	1.5
BP304SS	37 9 34	118 25 32	373,408	4,113,320	1.5	2.0	.7	.50	N	10	500	1.0
BP305SS	37 9 27	118 25 3	374,121	4,113,090	1.0	2.0	.5	.30	N	15	300	1.0
BP306SS	37 9 24	118 25 2	374,145	4,112,980	1.0	3.0	.7	.50	N	15	500	1.5
BP307SS	37 10 34	118 25 12	373,935	4,115,150	1.0	3.0	.5	.70	N	15	500	1.0
BP308SS	37 9 26	118 23 55	375,817	4,113,020	.7	5.0	.5	.50	N	10	300	1.0
BP309SS	37 9 23	118 23 58	375,743	4,112,930	1.0	2.0	.5	.50	N	10	500	1.5
BP310SS	37 10 40	118 22 14	378,341	4,115,260	.7	5.0	.5	.50	N	15	300	1.5
BP311SS	37 9 47	118 21 51	378,879	4,113,620	.5	2.0	.3	.20	N	15	300	3.0
BP312SS	37 9 33	118 21 1	380,115	4,113,190	.3	10.0	.3	.50	N	10	300	2.0
BP313SS	37 9 59	118 20 47	380,458	4,113,960	.5	10.0	.5	.70	N	10	300	2.0
BP314SS	37 11 43	118 23 34	376,392	4,117,230	1.5	5.0	1.0	.50	N	<10	500	1.0
BP315SS	37 7 50	118 24 24	375,045	4,110,080	1.5	7.0	1.0	.50	N	15	700	1.0
BP801SS	37 12 22	118 23 25	376,639	4,118,450	2.0	7.0	.5	.20	N	10	1,000	1.0
BP803SS	37 12 35	118 23 32	376,461	4,118,840	1.5	5.0	.7	.30	N	15	700	1.5
BP804SS	37 13 5	118 23 19	376,788	4,119,750	2.0	10.0	.7	.50	N	10	500	1.5
BP805SS	37 13 8	118 23 24	376,684	4,119,870	1.0	10.0	.2	.50	N	10	300	1.5
BP807SS	37 12 43	118 21 58	378,772	4,119,050	.7	2.0	.7	.30	N	20	300	2.0
BP808SS	37 11 55	118 21 15	379,821	4,117,570	.7	3.0	.7	.30	N	15	500	2.0
MG001SS	37 11 56	118 30 59	365,415	4,117,810	1.5	2.0	1.0	.30	N	20	500	1.5
MG002SS	37 11 43	118 30 17	366,453	4,117,380	1.5	3.0	1.5	.50	N	15	500	1.5
MG003SS	37 9 23	118 30 20	366,310	4,113,070	1.0	1.5	.7	.20	N	20	500	2.0
MG004SS	37 10 19	118 32 36	362,994	4,114,840	2.0	5.0	1.5	.50	N	15	500	1.5
MG005SS	37 9 29	118 34 25	360,277	4,113,360	1.5	5.0	1.0	.50	N	15	500	1.0
MG006SS	37 9 27	118 34 15	360,518	4,113,290	1.5	3.0	1.0	.50	N	15	500	1.0
MG007SS	37 9 58	118 33 53	361,079	4,114,230	1.5	5.0	.7	.50	N	20	500	1.0
MG008SS	37 9 37	118 34 3	360,823	4,113,590	1.5	3.0	1.0	.50	N	20	500	1.0
MG009SS	37 13 24	118 30 59	365,463	4,120,510	2.0	3.0	1.0	.50	N	30	500	1.5
MG010SS	37 13 5	118 31 9	365,199	4,119,940	2.0	3.0	1.5	.30	<.5	50	700	1.5
MG011SS	37 14 49	118 31 26	364,854	4,123,160	1.0	2.0	1.0	.30	N	20	500	1.0
MG012SS	37 14 18	118 32 40	363,016	4,122,230	1.0	5.0	1.0	.30	N	20	500	1.0
MG101SS	37 14 4	118 35 30	358,810	4,121,850	1.0	2.0	1.0	.20	<.5	50	700	2.0
MG102SS	37 13 16	118 36 21	357,516	4,120,400	1.5	5.0	1.0	.50	N	10	300	1.0
MG801SS	37 14 9	118 33 37	361,597	4,121,980	1.0	5.0	.7	.50	N	20	300	1.0
MG802SS	37 14 17	118 33 53	361,200	4,122,220	1.5	2.0	1.0	.20	N	30	500	1.0
MG803SS	37 13 7	118 34 0	360,996	4,120,060	1.0	5.0	1.0	.30	N	50	500	1.0
MG804SS	37 13 1	118 33 56	361,085	4,119,890	1.0	2.0	1.0	.20	N	30	500	1.0
MG805SS	37 11 44	118 34 1	360,935	4,117,520	1.0	2.0	1.0	.30	N	15	300	1.5
MG806SS	37 11 5	118 33 21	361,899	4,116,290	1.5	2.0	1.0	.20	N	15	500	1.5
MG807SS	37 11 21	118 33 18	361,973	4,116,780	1.0	1.5	1.0	.20	N	50	500	1.5
MG808SS	37 11 34	118 33 36	361,551	4,117,190	1.5	2.0	1.0	.30	N	20	500	1.0
MG809SS	37 11 41	118 33 33	361,610	4,117,420	1.5	2.0	1.5	.30	N	15	500	1.0

Table 8. Data for stream-sediment samples - (continued)

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
BP117SS	N	N	10	15	<5	100	1,000	5	<20	5	20	10
BP301SS	N	N	10	<10	<5	70	1,000	<5	<20	<5	20	10
BP302SS	N	N	5	N	5	20	1,000	5	<20	7	30	7
BP303SS	N	N	10	20	<5	150	1,000	5	20	5	20	15
BP304SS	N	N	15	20	5	200	1,500	<5	20	N	30	20
BP305SS	N	N	15	20	<5	100	1,000	N	<20	5	20	15
BP306SS	N	N	15	30	7	70	1,000	<5	N	10	20	10
BP307SS	N	N	10	10	<5	150	1,000	5	<20	<5	20	15
BP308SS	N	N	30	50	5	150	1,500	N	20	7	15	15
BP309SS	N	N	10	20	<5	150	1,000	N	20	<5	20	15
BP310SS	N	N	7	20	<5	200	1,500	N	20	<5	20	15
BP311SS	N	N	10	15	5	100	1,000	<5	<20	5	20	10
BP312SS	N	N	15	50	7	300	2,000	5	20	10	30	10
BP313SS	N	N	15	50	10	200	1,500	<5	30	10	30	10
BP314SS	N	N	15	15	10	20	1,000	<5	N	5	15	20
BP315SS	N	N	20	70	20	50	1,000	N	N	20	30	20
BP801SS	N	N	20	20	10	20	3,000	N	N	7	20	10
BP803SS	N	N	20	50	10	100	1,000	N	<20	10	30	20
BP804SS	N	N	20	20	10	100	5,000	70	20	10	20	15
BP805SS	N	N	15	50	10	200	1,000	N	30	N	30	10
BP807SS	N	N	10	10	5	70	1,000	N	<20	5	20	15
BP808SS	N	N	15	30	7	100	1,000	N	<20	15	20	15
MG001SS	N	N	15	50	10	70	1,000	7	<20	30	30	15
MG002SS	N	N	20	70	20	30	1,000	<5	<20	50	30	20
MG003SS	N	N	10	20	7	70	500	<5	N	15	20	10
MG004SS	N	N	20	100	30	50	1,000	7	N	30	20	20
MG005SS	N	N	20	30	10	70	1,000	10	<20	10	30	20
MG006SS	N	N	15	20	15	70	1,000	10	<20	10	30	15
MG007SS	N	N	15	15	30	70	1,000	50	<20	10	30	20
MG008SS	N	N	20	20	20	70	1,000	15	<20	10	30	20
MG009SS	N	N	15	30	30	100	1,500	5	<20	30	30	15
MG010SS	N	N	15	50	30	50	1,000	5	N	30	20	15
MG011SS	N	N	10	20	10	70	700	5	<20	10	30	10
MG012SS	N	N	10	30	10	70	1,000	N	<20	7	20	15
MG101SS	<10	<20	20	70	50	70	1,500	10	<20	70	20	10
MG102SS	N	N	20	30	15	100	1,500	<5	<20	7	30	30
MG801SS	N	N	15	50	20	30	1,000	5	<20	10	20	15
MG802SS	N	N	10	20	10	50	1,000	5	N	10	20	15
MG803SS	N	N	15	70	30	70	700	N	<20	20	20	15
MG804SS	<10	N	10	30	10	50	1,500	7	<20	10	30	15
MG805SS	N	N	20	20	10	70	1,000	5	<20	5	30	30
MG806SS	N	N	15	30	10	50	1,000	5	N	10	20	15
MG807SS	N	N	15	50	10	30	700	<5	N	20	20	10
MG808SS	N	N	15	30	15	70	1,000	7	N	10	20	15
MG809SS	N	N	20	20	10	70	1,000	N	N	5	20	30

Table 8. Data for stream-sediment samples - (continued)

Sample	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Zn-ppm aa	U-INST
BP117SS	N	200	N	50	N	30	N	300	N	20	11.10
BP301SS	N	300	<100	50	N	20	N	200	N	15	5.70
BP302SS	N	200	N	30	N	15	N	100	.003	25	.86
BP303SS	N	200	N	70	N	20	N	300	N	10	5.30
BP304SS	N	500	N	70	N	50	N	700	N	20	5.70
BP305SS	N	300	N	70	N	20	N	200	N	20	7.70
BP306SS	N	300	N	100	N	20	N	500	N	30	16.80
BP307SS	<10	200	N	70	N	30	N	500	N	20	1.70
BP308SS	N	300	<100	100	N	30	N	300	N	25	4.00
BP309SS	N	300	N	70	N	50	N	1,000	N	15	4.00
BP310SS	N	200	<100	100	N	50	N	1,000	.045	30	11.10
BP311SS	N	200	<100	50	N	20	N	200	N	35	3.40
BP312SS	N	150	<100	100	N	70	N	1,000	N	25	2.50
BP313SS	N	200	<100	150	N	100	N	>1,000	N	30	10.30
BP314SS	N	500	N	100	N	20	N	200	N	40	2.50
BP315SS	N	500	N	150	N	20	N	300	N	45	1.70
BP801SS	N	300	N	100	N	15	N	100	N	45	4.30
BP803SS	N	300	N	100	N	50	N	300	N	50	7.40
BP804SS	50	300	N	150	100	70	N	500	.005	50	11.40
BP805SS	N	300	100	200	N	50	N	500	N	45	31.10
BP807SS	N	200	N	50	N	30	N	300	.003	55	3.40
BP808SS	N	300	N	70	N	20	N	150	.004	45	3.10
MG001SS	N	300	N	100	N	20	N	100	.003	70	4.50
MG002SS	N	500	N	100	N	15	N	150	N	80	1.30
MG003SS	N	300	N	70	N	15	N	100	N	50	2.00
MG004SS	N	300	N	150	<50	20	N	70	N	70	6.80
MG005SS	20	500	N	150	<50	30	N	300	N	40	31.10
MG006SS	N	500	N	100	<50	20	N	150	N	65	11.10
MG007SS	N	300	<100	100	<50	30	N	500	.003	55	68.30
MG008SS	N	300	<100	150	50	30	N	300	N	55	51.10
MG009SS	N	200	N	100	N	30	N	200	.120	120	3.40
MG010SS	N	200	N	150	N	20	<200	100	N	140	2.00
MG011SS	N	200	N	100	N	20	N	200	N	70	1.40
MG012SS	N	200	N	150	N	30	N	300	N	60	2.50
MG013SS	N	200	N	200	<50	50	<200	500	2.500	70	8.70
MG101SS	N	150	N	150	<50	20	500	100	.011	500	3.70
MG102SS	10	500	<100	150	N	70	N	200	.010	30	10.90
MG801SS	N	200	N	200	N	20	<200	150	N	85	2.80
MG802SS	N	300	N	100	N	15	N	150	N	65	19.70
MG803SS	N	200	<100	200	100	30	N	500	N	120	6.80
MG804SS	N	300	N	100	<50	15	N	200	.007	65	36.80
MG805SS	N	500	N	100	N	30	N	200	N	35	4.50
MG806SS	N	500	N	100	<50	20	N	150	N	50	60.00
MG807SS	N	300	N	100	N	15	N	150	N	60	1.00
MG808SS	N	500	N	100	N	20	N	200	N	70	6.90
MG809SS	N	500	<100	100	N	30	N	500	N	35	87.20

Table 9. Data for heavy-mineral concentrate samples

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	As-ppm s	B-ppm s	Ba-ppm s
BI601KN	37 15 14	118 26 55	371,526	4,123,830	7.0	.5	.10	>2.0	N	50	500
BI602KN	37 15 41	118 27 36	370,532	4,124,680	7.0	.5	.20	>2.0	N	50	200
BI603KN	37 16 25	118 26 41	371,901	4,126,010	7.0	.5	.10	>2.0	N	30	500
BI604KN	37 16 29	118 26 42	371,883	4,126,130	5.0	1.0	.50	>2.0	N	30	500
BI605KN	37 16 42	118 25 32	373,621	4,126,490	5.0	.5	.20	>2.0	<500	30	500
BI606KN	37 16 41	118 25 25	373,782	4,126,470	5.0	1.5	.70	>2.0	N	70	300
BI801KN	37 18 41	118 27 56	370,120	4,130,230	5.0	.7	.70	>2.0	N	30	1,000
BI802KN	37 18 35	118 27 51	370,245	4,130,040	7.0	1.0	1.00	>2.0	N	70	500
BI803KN	37 18 57	118 26 41	371,990	4,130,670	7.0	.7	.20	>2.0	N	100	500
BI804KN	37 19 5	118 25 29	373,746	4,130,910	5.0	7.0	.20	>2.0	N	50	1,000
BI805KN	37 18 36	118 24 49	374,738	4,129,990	2.0	.5	.10	>2.0	N	30	700
BI806KN	37 17 59	118 24 37	375,014	4,128,860	5.0	.7	.50	>2.0	N	70	300
BI808KN	37 16 17	118 23 34	376,517	4,125,680	5.0	15.0	.50	>2.0	N	30	500
BI809KN	37 15 28	118 23 9	377,112	4,124,160	5.0	1.0	.70	>2.0	N	70	500
BI810KN	37 15 3	118 28 50	368,701	4,123,520	7.0	1.0	2.00	>2.0	N	100	500
BI811KN	37 15 3	118 28 42	368,902	4,123,520	3.0	.5	.30	>2.0	N	50	300
BI812KN	37 18 11	118 28 21	369,498	4,129,310	7.0	1.0	.50	>2.0	N	70	500
BI813KN	37 18 14	118 28 32	369,224	4,129,390	7.0	.7	1.00	>2.0	N	50	700
BI816KN	37 17 49	118 25 32	373,645	4,128,550	5.0	1.0	.30	>2.0	N	70	300
BI817KN	37 17 52	118 25 38	373,509	4,128,650	7.0	1.0	.70	>2.0	N	70	300
BP001KN	37 14 40	118 27 34	370,542	4,122,790	5.0	.7	.20	>2.0	N	30	500
BP002KN	37 14 38	118 27 30	370,658	4,122,730	5.0	.5	.10	>2.0	N	20	500
BP003KN	37 11 0	118 29 55	366,977	4,116,060	7.0	.5	1.00	>2.0	N	50	300
BP004KN	37 11 11	118 26 42	371,747	4,116,320	5.0	.7	.50	>2.0	N	50	500
BP005KN	37 12 9	118 28 1	369,812	4,118,140	7.0	.7	1.00	>2.0	N	100	500
BP006KN	37 13 17	118 28 50	368,640	4,120,260	10.0	.5	1.50	>2.0	N	50	300
BP007KN	37 14 0	118 28 41	368,886	4,121,570	7.0	.7	.30	>2.0	N	70	300
BP008KN	37 13 13	118 25 0	374,317	4,120,050	5.0	1.0	.50	>2.0	N	30	200
BP009KN	37 13 8	118 25 0	374,311	4,119,900	5.0	1.0	.30	>2.0	N	30	500
BP102KN	37 10 5	118 26 21	372,214	4,114,280	10.0	.5	.30	>2.0	N	30	300
BP103KN	37 8 2	118 26 23	372,111	4,110,490	2.0	.5	.20	2.0	N	30	1,000
BP104KN	37 8 45	118 23 14	376,797	4,111,750	3.0	.7	.20	>2.0	N	30	300
BP105KN	37 8 48	118 23 16	376,759	4,111,840	3.0	.7	.30	>2.0	N	50	500
BP106KN	37 8 34	118 22 14	378,277	4,111,380	5.0	1.0	.50	>2.0	N	20	300
BP107KN	37 8 37	118 22 16	378,224	4,111,490	2.0	.5	.20	>2.0	N	20	300
BP108KN	37 9 1	118 21 21	379,593	4,112,190	.7	.5	.07	2.0	<500	30	700
BP109KN	37 8 59	118 21 23	379,554	4,112,130	2.0	.5	.20	>2.0	N	30	300
BP110KN	37 8 47	118 20 57	380,187	4,111,770	2.0	.5	.20	>2.0	N	20	700
BP111KN	37 14 29	118 25 5	374,233	4,122,390	7.0	.7	.15	>2.0	N	30	200
BP112KN	37 14 24	118 25 4	374,250	4,122,240	5.0	.7	.15	>2.0	N	30	500
BP113KN	37 14 23	118 24 2	375,771	4,122,200	7.0	.7	.20	>2.0	N	30	300
BP114KN	37 14 38	118 22 46	377,658	4,122,620	7.0	1.0	.50	>2.0	N	30	500
BP115KN	37 11 54	118 21 0	380,199	4,117,530	5.0	1.0	.30	>2.0	N	30	500
BP116KN	37 13 36	118 22 48	377,625	4,120,740	5.0	1.0	.20	>2.0	N	30	500
BP117KN	37 9 59	118 29 11	368,018	4,114,160	5.0	.5	.20	>2.0	N	30	300

Table 9. Data for heavy-mineral concentrate samples - (continued)

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
BI601KN	N	1,500	N	30	<10	1,000	1,000	15	300	N
BI602KN	N	1,000	N	50	N	1,000	1,000	20	200	N
BI603KN	N	2,000	N	30	<10	1,000	1,000	10	500	N
BI604KN	N	N	<10	50	<10	700	1,000	30	500	N
BI605KN	N	N	15	50	15	700	1,000	15	200	N
BI606KN	N	N	<10	50	<10	2,000	3,000	15	500	N
BI801KN	N	N	N	70	<10	1,000	1,000	15	150	N
BI802KN	N	N	10	70	20	700	1,000	15	200	N
BI803KN	N	N	N	70	<10	2,000	1,500	10	300	N
BI804KN	N	100	200	30	200	>2,000	700	15	100	70
BI805KN	<2	200	N	20	10	1,500	500	15	70	N
BI806KN	N	N	N	50	<10	2,000	1,000	10	150	N
BI808KN	N	N	10	50	<10	>2,000	7,000	<10	200	N
BI809KN	N	N	<10	50	<10	2,000	1,500	15	200	N
BI810KN	<2	N	N	150	<10	500	1,500	15	200	N
BI811KN	N	70	N	50	<10	1,000	700	20	100	N
BI812KN	N	N	<10	50	<10	500	1,000	15	200	N
BI813KN	N	N	<10	70	10	700	1,000	15	150	N
BI816KN	N	N	<10	50	<10	1,500	1,000	15	500	N
BI817KN	N	N	N	70	10	2,000	1,500	10	200	N
BP001KN	N	>2,000	N	50	10	1,000	1,000	20	200	N
BP002KN	N	200	N	30	<10	700	1,500	15	500	N
BP003KN	N	N	N	70	N	1,000	1,000	15	150	N
BP004KN	N	300	<10	50	N	500	1,000	<10	100	N
BP005KN	N	70	<10	50	<10	700	1,000	<10	100	N
BP006KN	N	N	<10	70	N	1,500	1,500	10	150	N
BP007KN	N	N	N	50	N	1,000	1,000	20	100	N
BP008KN	N	N	N	50	N	700	1,500	15	500	20
BP009KN	N	50	10	30	15	1,000	1,500	50	150	N
BP102KN	N	N	N	50	N	1,000	1,500	15	200	N
BP103KN	<2	N	N	20	N	1,500	200	<10	50	N
BP104KN	N	N	<10	20	<10	1,000	700	10	70	N
BP105KN	N	70	N	30	N	1,500	1,000	10	100	N
BP106KN	N	500	20	50	<10	1,000	700	10	70	N
BP107KN	N	N	N	20	<10	1,000	500	10	70	N
BP108KN	N	200	<10	<20	15	2,000	500	N	50	N
BP109KN	N	200	10	20	10	1,500	500	<10	70	N
BP110KN	N	N	N	20	<10	1,500	500	<10	50	N
BP111KN	N	N	<10	50	<10	1,000	1,500	20	700	N
BP112KN	N	N	20	20	15	1,500	1,500	15	300	N
BP113KN	N	N	N	30	<10	1,500	1,500	15	500	N
BP114KN	N	N	<10	50	<10	1,000	1,500	10	500	20
BP115KN	N	N	20	20	10	1,000	2,000	N	150	N
BP116KN	N	N	15	50	15	1,500	1,000	10	150	N
BP117KN	N	N	<10	50	N	1,500	1,500	20	200	N

Table 9. Data for heavy-mineral concentrate samples - (continued)

Sample	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s
BI601KN	200	20	100	N	2,000	300	150	1,500	>2,000
BI602KN	100	20	100	N	500	500	N	1,000	>2,000
BI603KN	700	20	100	N	2,000	500	300	1,500	>2,000
BI604KN	20	30	100	N	500	300	1,000	1,000	1,500
BI605KN	150	50	100	N	5,000	300	500	700	>2,000
BI606KN	100	70	150	N	700	200	200	1,500	>2,000
BI801KN	100	50	150	N	1,500	300	150	1,500	>2,000
BI802KN	1,500	50	70	<200	1,500	500	300	1,000	>2,000
BI803KN	70	50	150	N	1,000	300	200	1,500	>2,000
BI804KN	150	50	30	N	3,000	200	200	2,000	>2,000
BI805KN	100	30	<20	N	1,500	70	N	300	>2,000
BI806KN	70	70	150	N	1,500	300	N	2,000	>2,000
BI808KN	300	70	50	N	1,000	200	N	1,500	>2,000
BI809KN	70	50	50	N	700	200	100	700	>2,000
BI810KN	20	20	50	N	700	500	500	500	>2,000
BI811KN	50	50	50	N	500	300	200	500	>2,000
BI812KN	50	50	70	<200	700	200	N	700	>2,000
BI813KN	100	50	50	N	5,000	300	N	1,000	>2,000
BI816KN	100	70	100	N	1,000	200	<100	1,000	>2,000
BI817KN	100	70	150	N	1,500	200	N	1,500	>2,000
BP001KN	1,000	20	70	N	500	300	500	700	>2,000
BP002KN	100	20	100	N	5,000	300	300	1,000	>2,000
BP003KN	70	20	50	N	200	500	<100	300	>2,000
BP004KN	50	50	70	N	1,000	500	100	500	>2,000
BP005KN	70	30	50	N	500	500	N	500	>2,000
BP006KN	20	20	50	N	<200	500	N	500	>2,000
BP007KN	30	30	70	N	300	500	N	700	>2,000
BP008KN	20	<10	100	N	200	300	100	1,000	>2,000
BP009KN	300	50	70	N	5,000	200	200	500	>2,000
BP102KN	30	30	70	N	500	300	N	500	>2,000
BP103KN	50	20	30	<200	500	100	N	200	>2,000
BP104KN	50	50	50	N	2,000	200	N	500	>2,000
BP105KN	20	50	70	N	1,000	200	100	500	>2,000
BP106KN	100	50	50	N	1,500	300	150	700	>2,000
BP107KN	50	50	20	N	3,000	200	300	500	>2,000
BP108KN	200	100	20	N	5,000	70	N	700	>2,000
BP109KN	50	100	30	N	2,000	200	100	500	>2,000
BP110KN	50	50	20	N	2,000	150	<100	500	>2,000
BP111KN	30	50	100	N	2,000	300	150	1,000	>2,000
BP112KN	70	50	70	N	>5,000	300	N	700	>2,000
BP113KN	50	50	100	N	3,000	300	N	1,000	>2,000
BP114KN	20	50	100	N	1,500	300	100	700	>2,000
BP115KN	100	100	70	N	5,000	200	N	700	>2,000
BP116KN	700	50	100	N	5,000	300	N	700	>2,000
BP117KN	20	30	100	N	500	500	<100	700	>2,000

Table 9. Data for heavy-mineral concentrate samples - (continued)

Sample	Latitude	Longitude	UTM Easting	UTM Northing	Ca-pct s	Fe-pct s	Mg-pct s	Ti-pct s	As-ppm s	B-ppm s	Ba-ppm s
BP301KN	37 10 1	118 26 22	372,199	4,114,150	3.0	.7	.20	>2.0	N	30	300
BP302KN	37 9 25	118 27 1	371,225	4,113,070	1.5	3.0	.70	>2.0	N	30	500
BP303KN	37 9 36	118 25 43	373,145	4,113,390	2.0	.5	.20	>2.0	N	30	500
BP304KN	37 9 34	118 25 32	373,408	4,113,320	3.0	.5	.20	>2.0	N	50	300
BP305KN	37 9 27	118 25 3	374,121	4,113,090	7.0	.5	.50	>2.0	N	50	300
BP306KN	37 9 24	118 25 2	374,145	4,112,980	2.0	.5	.20	>2.0	N	30	300
BP307KN	37 10 34	118 25 12	373,935	4,115,150	5.0	.5	.50	>2.0	N	50	500
BP308KN	37 9 26	118 23 55	375,817	4,113,020	5.0	.5	.30	>2.0	N	50	500
BP309KN	37 9 23	118 23 58	375,743	4,112,930	7.0	.5	.50	>2.0	N	70	500
BP310KN	37 10 40	118 22 14	378,341	4,115,260	2.0	.5	.10	>2.0	N	20	700
BP311KN	37 9 47	118 21 51	378,879	4,113,620	2.0	.7	.30	>2.0	N	20	500
BP312KN	37 9 33	118 21 1	380,115	4,113,190	3.0	.5	.50	>2.0	N	50	500
BP313KN	37 9 59	118 20 47	380,458	4,113,960	2.0	.7	.20	1.5	500	30	700
BP314KN	37 11 43	118 23 34	376,392	4,117,230	5.0	.5	.20	>2.0	N	50	300
BP315KN	37 7 50	118 24 24	375,045	4,110,080	1.5	.5	.50	>2.0	N	50	500
BP801KN	37 12 22	118 23 25	376,639	4,118,450	5.0	.5	.50	>2.0	N	30	500
BP803KN	37 12 35	118 23 32	376,461	4,118,840	7.0	.5	.20	>2.0	N	30	700
BP804KN	37 13 5	118 23 19	376,788	4,119,750	7.0	.5	.15	>2.0	N	50	500
BP805KN	37 13 8	118 23 24	376,684	4,119,870	7.0	.7	.10	>2.0	N	50	300
BP807KN	37 12 43	118 21 58	378,772	4,119,050	5.0	1.0	.50	>2.0	N	100	500
BP808KN	37 11 55	118 21 15	379,821	4,117,570	2.0	1.0	.50	>2.0	<500	50	700
MG001KN	37 11 56	118 30 59	365,415	4,117,810	7.0	.7	2.00	>2.0	N	50	300
MG002KN	37 11 43	118 30 17	366,453	4,117,380	5.0	.7	1.00	>2.0	N	30	200
MG003KN	37 9 23	118 30 20	366,310	4,113,070	7.0	.7	.50	>2.0	N	50	200
MG004KN	37 10 19	118 32 36	362,994	4,114,840	5.0	.5	.70	>2.0	N	150	200
MG005KN	37 9 29	118 34 25	360,277	4,113,360	7.0	.5	.20	>2.0	N	20	200
MG006KN	37 9 27	118 34 15	360,518	4,113,290	5.0	.5	.07	>2.0	N	30	500
MG007KN	37 9 58	118 33 53	361,079	4,114,230	5.0	.5	.07	>2.0	N	30	300
MG008KN	37 9 37	118 34 3	360,823	4,113,590	7.0	.5	.05	>2.0	N	20	150
MG009KN	37 13 24	118 30 59	365,463	4,120,510	10.0	1.5	3.00	2.0	N	50	500
MG010KN	37 13 5	118 31 9	365,199	4,119,940	7.0	2.0	3.00	>2.0	N	150	300
MG011KN	37 14 49	118 31 26	364,854	4,123,160	7.0	1.0	7.00	>2.0	N	30	200
MG012KN	37 14 18	118 32 40	363,016	4,122,230	2.0	.5	.70	>2.0	N	50	500
MG013KN	37 14 9	118 35 54	358,208	4,122,040	7.0	.7	.70	>2.0	1,000	150	200
MG101KN	37 14 4	118 35 30	358,810	4,121,850	7.0	1.0	.10	2.0	N	100	500
MG102KN	37 13 16	118 36 21	357,516	4,120,400	5.0	.7	.05	>2.0	N	20	200
MG801KN	37 14 9	118 33 37	361,597	4,121,980	3.0	.7	1.50	>2.0	N	70	300
MG802KN	37 14 17	118 33 53	361,200	4,122,220	5.0	.7	2.00	>2.0	N	50	200
MG803KN	37 13 7	118 34 0	360,996	4,120,060	3.0	.7	.50	>2.0	N	100	500
MG804KN	37 13 1	118 33 56	361,085	4,119,890	7.0	1.0	2.00	>2.0	N	50	150
MG805KN	37 11 44	118 34 1	360,935	4,117,520	5.0	.5	.07	>2.0	N	20	200
MG806KN	37 11 5	118 33 21	361,899	4,116,290	5.0	.7	.10	>2.0	N	30	150
MG807KN	37 11 21	118 33 18	361,973	4,116,780	7.0	.7	3.00	>2.0	N	70	300
MG808KN	37 11 34	118 33 36	361,551	4,117,190	5.0	.7	.70	>2.0	N	50	200
MG809KN	37 11 41	118 33 33	361,610	4,117,420	5.0	.7	.50	>2.0	N	70	150

Table 9. Data for heavy-mineral concentrate samples - (continued)

Sample	Be-ppm s	Bi-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s
BP301KN	N	N	<10	30	N	1,500	1,000	10	100	N
BP302KN	N	N	15	30	15	>2,000	7,000	N	100	30
BP303KN	N	N	N	20	N	>2,000	500	<10	50	N
BP304KN	N	N	N	50	N	1,000	1,000	10	200	N
BP305KN	N	N	N	50	N	1,000	1,500	15	200	N
BP306KN	N	N	N	20	N	1,000	500	N	70	N
BP307KN	N	N	N	50	N	1,000	1,500	10	70	N
BP308KN	N	100	10	50	<10	1,000	1,000	N	100	N
BP309KN	N	N	N	50	N	1,000	1,000	N	70	N
BP310KN	N	N	N	<20	15	500	1,000	N	100	N
BP311KN	N	N	<10	<20	10	1,500	1,000	N	100	N
BP312KN	N	500	N	20	<10	2,000	700	N	100	N
BP313KN	<2	500	20	20	20	700	300	N	70	N
BP314KN	N	N	<10	20	N	700	1,000	15	100	N
BP315KN	N	100	N	N	<10	1,000	300	N	50	N
BP801KN	N	N	N	30	N	1,000	1,000	300	70	N
BP803KN	N	N	N	50	<10	1,000	1,000	50	150	N
BP804KN	N	N	N	50	<10	1,500	1,500	2,000	100	N
BP805KN	N	N	<10	50	<10	1,000	1,500	30	700	N
BP807KN	N	N	20	50	10	1,000	2,000	N	100	N
BP808KN	<2	N	N	30	10	500	1,000	<10	150	N
MG001KN	<2	N	N	70	N	500	700	70	100	N
MG002KN	N	N	N	50	N	1,000	500	20	100	N
MG003KN	N	N	N	50	N	2,000	1,000	20	100	N
MG004KN	N	N	N	70	100	500	500	20	100	N
MG005KN	N	300	N	30	N	1,000	300	50	100	N
MG006KN	N	N	N	30	<10	700	700	70	100	N
MG007KN	N	N	N	50	<10	700	500	70	100	N
MG008KN	N	200	N	30	N	700	300	70	150	N
MG009KN	<2	N	N	50	<10	200	1,500	10	100	N
MG010KN	2	N	N	70	N	150	1,500	<10	70	N
MG011KN	N	N	N	50	N	300	1,000	15	100	N
MG012KN	N	N	N	50	<10	300	500	N	70	N
MG013KN	2	200	100	70	100	500	700	50	200	20
MG101KN	10	70	N	100	10	200	1,500	50	70	N
MG102KN	N	N	N	50	300	1,000	500	50	300	N
MG801KN	<2	N	<10	70	<10	700	700	30	150	N
MG802KN	N	N	N	50	<10	500	1,000	20	70	N
MG803KN	N	150	<10	70	300	500	500	30	70	N
MG804KN	N	N	N	50	N	700	1,000	50	150	N
MG805KN	N	N	N	50	<10	1,000	700	70	200	N
MG806KN	N	70	N	50	N	700	200	50	150	N
MG807KN	N	N	N	100	N	500	700	30	150	N
MG808KN	N	N	N	50	N	1,000	700	50	150	N
MG809KN	N	N	N	50	N	700	200	50	100	N

Table 9. Data for heavy-mineral concentrate samples - (continued)

Sample	Pb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zr-ppm s
BP301KN	50	30	50	N	500	500	<100	500	>2,000
BP302KN	100	50	20	N	5,000	100	<100	700	>2,000
BP303KN	30	50	30	N	1,000	200	N	500	>2,000
BP304KN	20	30	70	N	500	300	N	500	>2,000
BP305KN	20	30	100	N	300	500	N	300	>2,000
BP306KN	30	100	30	N	2,000	150	N	500	>2,000
BP307KN	70	100	150	N	700	300	N	700	>2,000
BP308KN	70	100	100	N	1,500	200	N	500	>2,000
BP309KN	30	50	50	N	500	300	N	500	>2,000
BP310KN	100	150	50	N	>5,000	200	N	1,000	>2,000
BP311KN	100	150	50	N	>5,000	100	N	1,000	>2,000
BP312KN	150	150	50	N	5,000	200	N	700	>2,000
BP313KN	150	50	20	N	>5,000	50	<100	500	>2,000
BP314KN	50	50	50	N	700	300	N	500	>2,000
BP315KN	20	100	50	N	1,500	150	N	500	>2,000
BP801KN	20	30	50	N	1,000	300	300	700	>2,000
BP803KN	100	50	100	N	1,500	300	200	700	>2,000
BP804KN	200	50	100	N	2,000	200	1,000	1,000	>2,000
BP805KN	70	50	150	N	5,000	300	100	1,000	>2,000
BP807KN	500	70	100	N	3,000	150	N	1,000	>2,000
BP808KN	150	150	100	N	5,000	150	N	1,000	>2,000
MG001KN	30	30	30	N	500	300	700	200	>2,000
MG002KN	20	30	50	N	<200	300	N	500	>2,000
MG003KN	20	30	70	N	300	200	N	700	>2,000
MG004KN	<20	50	50	N	500	200	200	300	>2,000
MG005KN	50	50	20	N	300	300	200	500	>2,000
MG006KN	30	30	50	N	1,000	200	500	500	>2,000
MG007KN	20	50	50	N	700	200	300	500	>2,000
MG008KN	50	50	70	N	200	200	200	700	>2,000
MG009KN	50	30	30	N	1,000	200	100	200	>2,000
MG010KN	20	30	20	N	500	300	200	200	>2,000
MG011KN	20	30	30	N	200	200	<100	200	>2,000
MG012KN	<20	70	20	N	1,500	200	<100	500	>2,000
MG013KN	100	50	150	N	700	300	500	300	>2,000
MG101KN	20	70	30	N	500	300	2,000	200	>2,000
MG102KN	30	30	150	N	200	300	N	1,000	>2,000
MG801KN	150	50	30	N	1,000	200	300	500	>2,000
MG802KN	50	50	50	N	700	300	300	700	>2,000
MG803KN	200	30	50	<200	2,000	200	2,000	300	>2,000
MG804KN	20	30	50	N	500	200	<100	700	>2,000
MG805KN	20	50	70	N	500	300	200	700	>2,000
MG806KN	20	50	70	N	500	300	500	500	>2,000
MG807KN	20	30	30	N	300	500	100	200	>2,000
MG808KN	70	50	70	N	700	300	<100	700	>2,000
MG809KN	20	50	20	N	1,000	200	100	500	>2,000