UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results for 178 stream-sediment, 98 heavy-mineral-concentrate, 27 rock, and 11 water samples from the Rattlesnake and Wet Beaver Roadless Areas, Coconino and Yavapai Counties, Arizona.

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Open-File Report 83-339

1983

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Rattlesnake Roadless Area and Rattlesnake Further Planning Area both refer to area 03054; Wet Beaver Roadless Area and Wet Beaver Further Planning Area both refer to area 03045.

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 Congress. This report presents the results of a geochemical survey of the Rattlesnake (03054) and Wet Beaver (03045) Roadless Areas in the Coconino National Forest, Coconino and Yavapai Counties, Arizona. The Rattlesnake and Wet Beaver 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

The Rattlesnake and Wet Beaver Roadless Areas are located on the northeast edge of the Mogollon Rim near Rimrock, Arizona and approximately 30 mi south of Flagstaff, Arizona. Both areas fall between lat 34°37'30"N. and 34°52'30"N. and long 111°30'00"W. and 111°47'30"W., and are separated from each other by approximately 5 mi (fig. 1). The geochemical sampling of the two areas was conducted from May 5 through May 30, 1982, by S. C. Rose, D. E. Hendzel, and W. J. Gerstel, and could never have been completed without the skills of Jack Ruby of Helicopters Unlimited.

The Rattlesnake Roadless Area covers 51.4 sq mi (133.08 sq km) of U.S. Forest Service land. Elevations within the roadless area range from approximately 3800 ft (1169 m) to 6800 ft (2092 m). The area consists of mesalands dissected by three major, primarily northeast-southwest-trending canyon systems formed by Dry Beaver Creek. The Wet Beaver Roadless Area covers 15.5 sq mi (40.04 sq km) and consists of one major canyon system that was formed by the west-flowing Wet Beaver Creek. Elevations here range from approximately 3900 ft (1200 m) to 6400 ft (1969 m). In the Rattlesnake Roadless Area the Permian red sandstones of the Supai Formation, overlain by the buff-colored cross-bedded Coconino Formation, a sandstone unit, also of Permian age, are exposed in the walls at the lower ends of the canyons. The Toroweap Formation, also a Permian crossbedded sandstone, is distinguished from the underlying Coconino by its yellowish-buff color. Overlying the sandstones and as much as 200 ft (61 m) of Permian Kaibab Limestone are flows of Tertiary volcanics. These are found exposed in the walls of the uppermost part of the canyons and in outcrops on the mesa tops. A few isolated outcrops of the Kaibab Limestone remain exposed on the mesas where the volcanics were never deposited or have since been eroded. In the Wet Beaver Roadless Area, a similar sequence of units is visible, although the Toroweap here is not distinguishable from the Coconino Sandstone.

SAMPLE COLLECTION AND PREPARATION

The geochemical survey of these two roadless areas in Arizona was conducted by collecting and analyzing 114 stream-sediment, 68 heavy-mineral concentrate, 20 rock, and 4 water samples for the Rattlesnake Roadless Area (pl. 1); and 64 stream-sediment, 30 heavy-mineral concentrate, 7 rock, and 7 water samples for the Wet Beaver Roadless Area (pl. 2). In both areas, the density of stream-sediment sampling averaged approximately 1.5 samples per square mile; most samples were taken from first-order channels. Heavy-mineral concentrates were collected at approximately 50 percent of these sites. Water samples

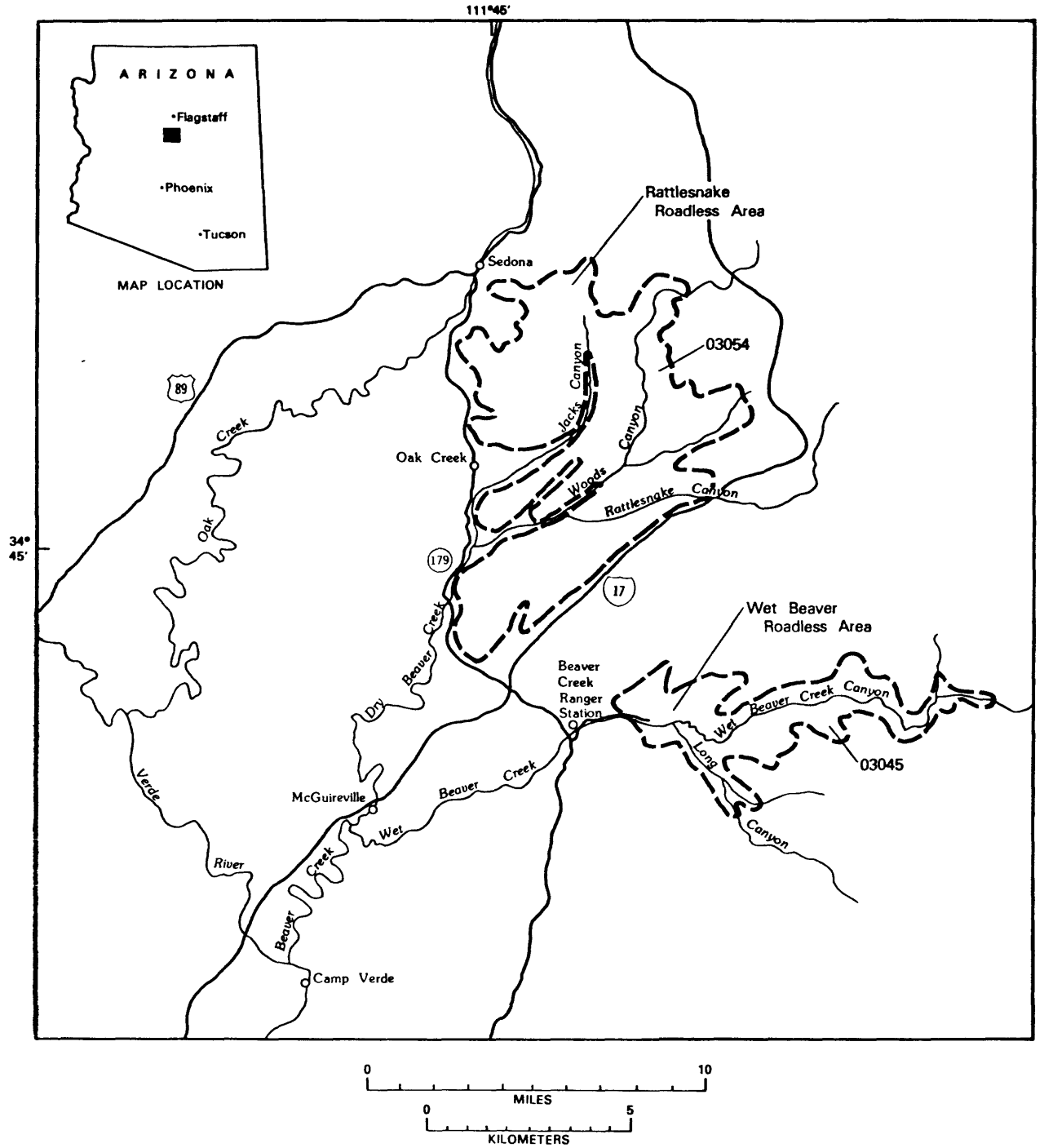

Figure 1. Index map of the Rattlesnake and Wet Beaver Roadless Areas, Coconino and Yavapai Counties, Arizona.

were taken from springs and water-bearing first-order streams. The rock samples were taken to obtain background values for units found in the area. The Coconino Sandstone was sampled somewhat more extensively as it is known to contain slightly anomalous amounts of silver (6–9 parts per million) in an area approximately 15 mi south of these roadless areas.

The standard stream-sediment sample was a sieved (to minus–2 mm) composite of the stream-bed material. A 75 g sample of sediment was usually collected and stored in a water-resistant paper envelope. The heavy-mineral concentrates were obtained by panning one 16 in. pan of minus –2 mm mesh screened stream-sediment composite. Panning was done at the site when water was available; otherwise, the sample was bagged and panned later at a stream near camp. Two water samples were collected at each site; one of 60 mL, and the other of 250 mL. The 60 mL sample, used for the determination of selection cations, was filtered to 0.45 microns and stabilized by the addition of a few drops of concentrated nitric acid. The 250 mL sample used for the determination of pH, alkalinity, conductivity, and selected anions, was neither filtered nor acidified.

Prior to analysis, stream-sediment samples were sieved to minus–250 micrometer (minus–60 mesh) and the fines were ground in a pulverizer to pass through a 0.062-micrometer (200 mesh) screen. Rock samples were first run through a jaw crusher and then pulverized to minus–0.062 micrometer (minus–200 mesh). The crude heavy-mineral concentrates were purified by treatment with bromoform (specific gravity, 2.86). Following separation and removal of all less dense material, the heavier fraction was further separated into magnetic and nonmagnetic fractions on a Frantz Isodynamic Separator set at 0.6 amperes. The nonmagnetic fraction was then hand ground to a fine powder in an agate mortar and pestle. Only the data for the nonmagnetic fraction are shown in this report.

ANALYTICAL TECHNIQUES

All stream-sediment, heavy-mineral concentrate, and rock samples were analyzed for 31 elements by a six-step semiquantitative emission spectrographic method (Grimes and Marranzino, 1968). In this procedure, elements are reported to the nearest number in the series 1.0, 0.7, 0.5, 0.3, 0.2, 0.15, and 0.1, which represent approximate midpoints of group data on a geometric scale. The rock and stream-sediment samples were then also analyzed for Zn, Cd, Bi, Sb, and As by atomic absorption spectrophotometry techniques that utilize a partial digestion of the sample (Viets and others, 1979), and for U by fluorometric procedures (Grimaldi and others, 1954). Water samples were analyzed for SO_4, Cl, F, and NO_3 by ion chromatography (Smee and Hall, 1978); for Ca, Mg, Na, K, Li, SiO_2, and Zn by flame atomic absorption spectrophotometry (Perkin-Elmer Corp., 1976); for Cu, Mo, As, Fe, Mn, and Al by flameless atomic absorption spectrophotometry (Perkin-Elmer Corp., 1977); for U by laser-excited fluorescence (Scintrex Corp., 1978); for specific conductance by conductivity bridge (Brown and others, 1970); and for alkalinity by Gran's plot potentiometric titration (Orion Research Inc., 1978).

ANALYTICAL RESULTS

Analytical results are found in tables 1, 5, 9, and 10 for the Rattlesnake Roadless Area; and in tables 11, 15, 19, and 20 for the Wet Beaver Roadless Area.[1] All analytical data were entered

[1]The 'S' and 'AA' found in the column headings identify data analyzed by spectrographic methods and atomic absorption methods, respectively. INST represents uranium methods of analysis by fluorometric procedures.

into the U.S. Geological Survey Rock Analysis Storage System (RASS). Analytical results were processed by computer programs in a statistics package (STATPAC) arranged for USGS use (Van Trump and Miesch, 1977). Statistical analyses are found in tables 2–4,6–8, 12–14, and 16–18. Fisher–K, correlation coefficients, and graphical analyses (including frequency tables, histograms, maximum/minimum values, and standard deviations calculated on log values of the data) were computed for all unqualified values in each data set. In the Fisher–K tables, K2, K3, and K4 represent various moments about the mean (given in column K1). Also included in the Fisher–K tables is a summation of qualified values grouped by N, L, G, H, and B. These codes are defined in the table headings of the analytical data, all except for H and B, which do not apply to these data sets.

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Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day, A.L. Gruzensky, D.K. Kelley, G. Nelson, J. Sharkey, and L.S. Sherlock. The following qualifiers are used in reporting spectrographic data: --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
RS201S	34 52 26	111 42 19	5.0	2.0	2.0	.50	1,500	N	N	N	50
RS202S	34 52 14	111 42 54	.7	.2	.2	.10	150	N	N	N	70
RS203S	34 52 8	111 43 4	.7	.2	1.0	.20	200	N	N	N	50
RS204S	34 51 36	111 44 8	1.0	1.0	3.0	.50	200	N	N	N	100
RS205S	34 51 39	111 44 7	1.0	1.0	2.0	.30	500	N	N	N	100
RS206S	34 51 42	111 43 59	1.0	1.0	3.0	.50	200	N	N	N	70
RS207S	34 51 51	111 44 25	1.0	1.0	3.0	.30	500	N	N	N	100
RS208S	34 43 24	111 46 26	10.0	2.0	5.0	.50	1,000	N	N	N	100
RS209S	34 47 48	111 43 13	2.0	1.0	2.0	.30	300	N	N	N	100
RS210S	34 47 51	111 43 12	2.0	.5	1.0	.20	300	N	N	N	70
RS211S	34 47 50	111 43 14	2.0	.7	1.0	.30	300	N	N	N	100
RS212S	34 47 22	111 43 40	3.0	1.0	2.0	.30	500	N	N	N	100
RS213S	34 46 44	111 44 41	3.0	1.0	1.0	.30	1,000	N	N	N	100
RS214S	34 47 27	111 43 9	1.0	.2	.2	.10	300	N	N	N	50
RS215S	34 47 43	111 42 44	.7	.2	.2	.10	150	N	N	N	20
RS216S	34 47 45	111 42 55	2.0	1.0	2.0	.30	500	N	N	N	100
RS217S	34 48 17	111 42 3	2.0	.5	.5	.30	100	N	N	N	20
RS218S	34 48 18	111 42 9	1.0	.3	.7	.50	700	N	N	N	70
RS219S	34 49 54	111 42 8	1.0	.5	.5	.20	200	N	N	N	50
RS220S	34 49 55	111 42 9	1.0	.2	.2	.20	200	N	N	N	70
RS221S	34 49 56	111 42 4	3.0	1.0	1.0	.30	500	N	N	N	70
RS222S	34 49 42	111 42 9	1.0	.2	.2	.20	200	N	N	N	50
RS223S	34 49 32	111 42 5	1.0	.2	.2	.20	300	N	N	N	50
RS224S	34 48 26	111 41 59	1.0	.7	1.0	.20	200	N	N	N	50
RS225S	34 48 26	111 41 56	.5	.1	.1	.07	100	N	N	N	10
RS226S	34 46 13	111 39 52	15.0	3.0	2.0	.70	2,000	N	N	N	50
RS227S	34 46 15	111 39 55	10.0	2.0	2.0	.50	2,000	N	N	N	70
RS228S	34 46 5	111 40 0	15.0	3.0	2.0	1.00	5,000	N	N	N	100
RS231S	34 43 59	111 43 48	10.0	5.0	5.0	1.00	3,000	N	N	N	50
RS232S	34 44 11	111 43 50	10.0	3.0	5.0	1.00	2,000	N	N	N	100
RS233S	34 43 38	111 43 58	7.0	2.0	3.0	1.00	2,000	N	N	N	100
RS234S	34 42 44	111 44 26	7.0	5.0	20.0	.70	1,500	N	N	N	100
RS235S	34 42 40	111 44 53	3.0	2.0	10.0	.30	1,000	N	N	N	150
RS236S	34 42 2	111 45 47	5.0	2.0	5.0	.50	1,500	N	N	N	100
RS237S	34 42 38	111 46 29	10.0	2.0	3.0	.50	1,500	N	N	N	70
RS238S	34 41 46	111 45 20	20.0	3.0	10.0	1.00	5,000	N	N	N	100
RS239S	34 41 46	111 45 20	10.0	7.0	20.0	.70	3,000	N	N	N	70
RS240S	34 46 10	111 43 54	7.0	3.0	2.0	.50	700	N	N	N	200
RS241S	34 46 11	111 44 0	3.0	2.0	2.0	.50	500	N	N	N	100
RS242S	34 45 45	111 43 9	3.0	2.0	2.0	.50	1,000	N	N	N	200
RS243S	34 45 54	111 42 51	10.0	10.0	3.0	.70	3,000	N	N	N	100
RS244S	34 46 41	111 41 49	2.0	.7	1.0	.20	200	N	N	N	70
RS245S	34 51 13	111 44 20	.5	.2	.5	.10	150	N	N	N	50
RS246S	34 51 16	111 44 20	1.0	.7	1.0	.20	300	N	N	N	70
RS247S	34 51 21	111 44 57	1.0	.7	1.0	.30	300	N	N	N	100

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
RS201S	700	2	N	N	30	200	70	30	N	N	150
RS202S	200	1	N	N	5	50	15	N	N	N	15
RS203S	300	1	N	N	5	50	70	N	N	N	10
RS204S	700	1	N	N	5	70	50	N	N	N	20
RS205S	700	2	N	N	5	70	20	N	N	N	15
RS206S	700	1	N	N	5	70	30	N	N	N	20
RS207S	700	2	N	N	5	100	15	N	N	N	20
RS208S	1,000	1	N	N	30	300	100	50	N	<20	150
RS209S	300	1	N	N	10	100	70	N	N	N	30
RS210S	200	1	N	N	5	30	50	N	N	N	10
RS211S	300	1	N	N	5	30	70	N	N	N	20
RS212S	500	1	N	N	15	150	100	30	N	N	50
RS213S	700	1	N	N	20	150	50	50	N	N	50
RS214S	100	N	N	N	5	20	50	N	N	N	20
RS215S	100	N	N	N	5	30	50	N	N	N	20
RS216S	500	1	N	N	10	100	30	20	N	N	20
RS217S	200	N	N	N	10	70	70	N	N	N	20
RS218S	500	2	N	N	10	150	15	N	N	N	30
RS219S	300	1	N	N	10	50	50	N	N	N	30
RS220S	200	1	N	N	5	30	50	N	N	N	20
RS221S	300	1	N	N	15	100	150	N	N	N	100
RS222S	300	N	N	N	5	50	30	N	N	N	15
RS223S	200	N	N	N	5	20	70	N	N	N	20
RS224S	150	N	N	N	5	50	50	N	N	N	20
RS225S	20	N	N	N	5	10	70	N	N	N	10
RS226S	700	2	N	N	50	500	100	70	N	20	150
RS227S	500	2	N	N	50	700	70	70	N	20	300
RS228S	1,000	1	N	N	70	700	150	50	N	20	200
RS231S	1,000	1	N	N	30	500	150	70	N	<20	200
RS232S	1,000	2	N	N	50	300	100	100	N	<20	150
RS233S	1,000	3	N	N	30	200	100	50	N	20	100
RS234S	2,000	2	N	N	30	300	50	50	5	N	100
RS235S	1,000	1	N	N	20	150	70	20	N	N	50
RS236S	1,000	1	N	N	20	200	70	200	N	<20	50
RS237S	1,000	2	N	N	50	300	100	30	N	<20	200
RS238S	1,500	N	N	N	70	700	150	200	N	20	150
RS239S	1,000	2	N	N	30	500	100	30	N	N	100
RS240S	500	1	N	N	30	200	100	50	N	<20	100
RS241S	1,000	1	N	N	10	150	70	30	N	N	20
RS242S	700	2	N	N	15	150	70	50	N	<20	70
RS243S	1,000	1	N	N	70	1,000	100	50	N	20	300
RS244S	300	N	N	N	5	30	30	N	N	N	15
RS245S	100	N	N	N	5	20	70	N	N	N	10
RS246S	300	1	N	N	5	50	30	N	N	N	7
RS247S	300	1	N	N	5	50	30	20	N	N	7

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
RS201S	70	N	15	N	300	200	N	20	N	300	N
RS202S	10	N	5	N	100	50	N	10	N	300	N
RS203S	30	N	5	N	100	50	N	10	N	200	N
RS204S	70	N	7	N	200	100	N	20	N	700	N
RS205S	70	N	7	N	100	70	N	30	N	700	N
RS206S	70	N	7	N	200	70	N	20	N	700	N
RS207S	50	N	5	N	200	70	N	30	N	300	N
RS208S	30	N	20	N	500	200	N	20	N	200	N
RS209S	30	N	5	N	100	70	N	20	N	500	N
RS210S	<10	N	<5	N	100	30	N	10	N	300	N
RS211S	20	N	7	N	100	50	N	20	N	700	N
RS212S	50	N	10	N	100	200	N	50	N	700	N
RS213S	70	N	10	N	200	100	N	70	N	500	N
RS214S	10	N	N	N	100	20	N	10	N	100	N
RS215S	10	N	N	N	100	20	N	10	N	200	N
RS216S	20	N	10	N	100	70	N	50	N	500	N
RS217S	20	N	5	N	100	50	N	20	N	300	N
RS218S	20	N	5	N	100	100	N	10	N	500	N
RS219S	30	N	5	N	100	50	N	10	N	500	N
RS220S	20	N	5	N	100	50	N	15	N	500	N
RS221S	10	N	7	N	200	100	N	20	N	300	N
RS222S	20	N	<5	N	100	20	N	10	N	300	N
RS223S	30	N	5	N	100	50	N	10	N	300	N
RS224S	10	N	5	N	100	100	N	10	N	500	N
RS225S	10	N	N	N	100	20	N	10	N	300	N
RS226S	50	N	30	N	500	300	N	50	N	200	N
RS227S	30	N	30	N	300	300	N	50	N	300	N
RS228S	70	N	30	N	300	300	N	70	N	300	N
RS231S	70	N	30	N	300	300	N	50	N	200	N
RS232S	70	N	20	N	300	300	N	30	N	300	N
RS233S	100	N	20	N	300	200	N	30	N	500	N
RS234S	70	N	15	N	300	200	N	30	N	200	N
RS235S	70	N	10	N	500	150	N	20	N	100	N
RS236S	30	N	20	N	500	200	N	20	N	100	N
RS237S	20	N	30	N	1,000	200	N	50	N	200	N
RS238S	70	N	30	N	700	500	N	50	N	300	N
RS239S	100	N	20	N	700	200	N	30	N	150	N
RS240S	50	N	20	N	200	150	N	70	N	700	N
RS241S	50	N	10	N	200	70	N	50	N	1,000	N
RS242S	30	N	10	N	200	100	N	70	N	1,000	N
RS243S	50	N	30	N	300	200	N	50	N	300	N
RS244S	10	N	5	N	100	50	N	20	N	1,000	N
RS245S	<10	N	<5	N	100	20	N	10	N	1,000	N
RS246S	15	N	5	N	100	30	N	20	N	300	N
RS247S	20	N	5	N	200	50	N	50	N	300	N

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
RS201S	N	50	N	<2	N	.35
RS202S	<5	15	N	2	1	.15
RS203S	N	10	N	<2	N	.25
RS204S	N	20	N	<2	N	.50
RS205S	<5	20	N	<2	1	.35
RS206S	N	20	N	<2	1	.40
RS207S	5	20	N	<2	1	.45
RS208S	5	55	.3	N	N	.50
RS209S	<5	10	.2	N	N	.37
RS210S	N	10	.1	N	N	.56
RS211S	<5	10	.2	N	N	.24
RS212S	5	15	.2	N	N	.26
RS213S	<5	20	.4	N	N	.44
RS214S	N	5	.2	N	N	.13
RS215S	<5	5	.2	N	N	.19
RS216S	N	10	.2	N	N	.54
RS217S	<5	10	.2	N	N	.20
RS218S	5	20	.1	N	N	.20
RS219S	<5	20	N	<2	N	.15
RS220S	<5	20	.1	N	N	.34
RS221S	<5	15	.2	N	N	.23
RS222S	<5	10	.1	N	N	.20
RS223S	N	10	.1	N	N	.22
RS224S	<5	10	.2	N	N	.27
RS225S	N	5	.1	N	N	.14
RS226S	<5	80	.3	N	N	1.10
RS227S	5	80	.5	N	N	.96
RS228S	<5	80	.4	N	N	.96
RS231S	N	80	.2	<2	2	.80
RS232S	5	80	.3	<2	2	.55
RS233S	5	90	.6	<2	N	.65
RS234S	5	45	N	<2	N	.60
RS235S	<5	25	.2	N	N	.64
RS236S	10	40	.2	N	N	.34
RS237S	20	85	.4	N	N	.32
RS238S	5	160	.2	N	N	.52
RS239S	10	70	.1	<2	N	.45
RS240S	<5	30	.3	N	N	.29
RS241S	<5	15	.2	N	N	.62
RS242S	<5	20	.4	N	N	.16
RS243S	<5	80	.4	N	N	.58
RS244S	<5	15	.3	N	N	.22
RS245S	N	5	.2	N	N	.27
RS246S	<5	10	.4	N	N	.38
RS247S	N	10	.3	N	N	.19

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
RS249S	34 51 18	111 42 14	10.0	3.0	5.0	1.00	5,000	N	N	N	100
RS250S	34 51 19	111 42 15	.5	.2	.2	.10	150	N	N	N	10
RS251S	34 50 59	111 42 14	7.0	1.0	1.0	.50	1,500	1.0	N	N	70
RS252S	34 50 40	111 42 19	.5	.2	.2	.50	300	N	N	N	50
RS253S	34 50 17	111 42 9	1.0	.5	.5	.10	150	N	N	N	30
RS255S	34 51 21	111 39 5	20.0	5.0	5.0	>1.00	>5,000	N	N	N	200
RS256S	34 51 23	111 39 6	20.0	10.0	7.0	1.00	5,000	N	N	N	50
RS257S	34 51 30	111 40 16	7.0	2.0	1.0	.50	2,000	N	N	N	50
RS258S	34 51 29	111 40 14	15.0	5.0	2.0	.50	2,000	N	N	N	50
RS259S	34 49 27	111 42 11	.7	.2	.2	.20	200	N	N	N	70
RS260S	34 49 10	111 42 11	.7	.2	.2	.20	300	N	N	N	100
RS261S	34 50 27	111 45 3	2.0	.7	1.0	.30	300	N	N	N	70
RS262S	34 50 23	111 44 57	1.0	.5	.5	.30	200	N	N	N	70
RS263S	34 50 19	111 44 58	2.0	.7	1.0	.30	200	N	N	N	100
RS264S	34 50 31	111 45 18	3.0	1.0	2.0	.50	500	N	N	N	200
RS265S	34 44 47	111 45 38	7.0	7.0	2.0	.50	1,000	N	N	N	200
RS266S	34 44 29	111 45 54	10.0	7.0	5.0	1.00	1,500	N	N	N	100
RS267S	34 43 46	111 45 58	20.0	10.0	15.0	1.00	1,500	N	N	N	100
RS268S	34 47 1	111 38 24	15.0	2.0	1.0	1.00	2,000	N	N	N	100
RS269S	34 47 22	111 38 28	7.0	2.0	1.0	.50	1,500	N	N	N	100
RS270S	34 47 21	111 38 25	10.0	1.0	1.0	1.00	5,000	N	N	N	100
RS271S	34 45 43	111 44 3	2.0	2.0	2.0	.30	500	N	N	N	100
RS272S	34 45 33	111 43 59	7.0	2.0	2.0	1.00	1,500	N	N	N	200
RS273S	34 45 33	111 43 39	3.0	5.0	7.0	.30	1,000	N	N	N	100
RS274S	34 49 3	111 42 4	5.0	2.0	1.0	.50	1,000	N	N	N	30
RS277S	34 47 15	111 45 11	2.0	2.0	5.0	.50	700	N	N	N	200
RS279S	34 50 40	111 46 0	2.0	2.0	5.0	.50	500	N	N	N	200
RS280S	34 44 49	111 42 18	10.0	3.0	2.0	.70	2,000	N	N	N	100
RS281S	34 44 11	111 42 56	20.0	>10.0	10.0	>1.00	>5,000	N	N	N	100
RS282S	34 44 12	111 42 48	7.0	3.0	2.0	.50	1,500	N	N	N	100
RS283S	34 44 41	111 41 38	10.0	3.0	2.0	.70	2,000	N	N	N	70
RS284S	34 51 2	111 39 55	.7	.2	.1	.10	200	N	N	N	50
RS285S	34 50 29	111 40 34	.7	.2	.2	.20	200	N	N	N	100
RS286S	34 49 51	111 40 36	1.0	.5	.5	.30	1,000	N	N	N	50
RS287S	34 49 53	111 40 37	7.0	2.0	2.0	.50	1,500	N	N	N	70
RS288S	34 49 38	111 40 37	.5	.1	.1	.15	150	N	N	N	70
RS289S	34 48 49	111 40 30	2.0	.5	.5	.30	1,000	N	N	N	50
RS290S	34 48 48	111 40 21	1.0	.5	.5	.30	500	N	N	N	70
RS291S	34 47 42	111 40 8	10.0	2.0	5.0	.50	1,000	N	N	N	50
RS292S	34 47 44	111 40 18	20.0	5.0	5.0	1.00	3,000	N	N	N	70
RS293S	34 47 36	111 40 50	7.0	2.0	2.0	.70	2,000	N	N	N	50
RS294S	34 46 58	111 40 54	10.0	3.0	5.0	>1.00	5,000	N	N	N	100
RS295S	34 46 57	111 40 55	10.0	2.0	2.0	>1.00	5,000	N	N	N	100
RS296S	34 47 8	111 41 19	1.0	.2	.2	.20	500	N	N	N	30
RS297S	34 46 19	111 42 9	10.0	3.0	5.0	>1.00	2,000	N	N	N	200

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
RS249S	1,000	2	N	N	70	700	100	70	N	N	150
RS250S	100	N	N	N	5	30	15	N	N	N	10
RS251S	500	1	N	N	50	200	70	20	N	N	100
RS252S	50	1	N	N	5	50	10	N	N	N	20
RS253S	100	1	N	N	10	100	15	N	N	N	30
RS255S	1,000	1	N	N	70	1,000	200	70	N	30	300
RS256S	1,500	N	N	N	200	1,500	700	70	N	30	500
RS257S	200	1	N	N	50	300	70	N	N	N	150
RS258S	500	1	N	N	70	500	100	70	N	20	300
RS259S	150	1	N	N	5	50	15	N	N	N	15
RS260S	150	1	N	N	5	70	20	N	N	N	10
RS261S	300	1	N	N	10	50	70	N	N	N	30
RS262S	300	1	N	N	5	50	70	N	N	N	20
RS263S	300	1	N	N	10	50	70	N	N	N	10
RS264S	700	1	N	N	15	150	50	70	N	<20	50
RS265S	500	1	N	N	30	200	100	50	N	N	150
RS266S	1,000	N	N	N	50	1,000	100	50	N	N	150
RS267S	1,000	1	N	N	70	700	200	70	N	20	300
RS268S	700	5	N	N	50	500	70	100	N	30	200
RS269S	700	2	N	N	50	300	70	70	N	20	150
RS270S	1,000	2	N	N	50	700	150	70	N	30	150
RS271S	300	1	N	N	15	100	50	N	N	N	50
RS272S	1,000	2	N	N	20	200	100	50	N	20	70
RS273S	1,000	1	N	N	15	150	30	30	N	N	50
RS274S	150	1	N	N	30	1,000	50	N	N	N	150
RS277S	500	3	N	N	10	100	100	N	N	N	30
RS279S	500	3	N	N	10	100	200	50	N	N	50
RS280S	1,000	1	N	N	70	500	150	50	N	20	200
RS281S	1,000	1	N	N	100	2,000	300	70	N	30	500
RS282S	700	1	N	N	50	700	100	70	N	N	200
RS283S	1,000	1	N	N	50	700	100	50	N	20	200
RS284S	50	1	N	N	5	50	7	N	N	N	15
RS285S	200	1	N	N	5	50	15	N	N	N	15
RS286S	200	1	N	N	20	200	50	N	N	N	70
RS287S	200	1	N	N	30	300	50	N	N	N	150
RS288S	100	1	N	N	5	20	15	N	N	N	10
RS289S	200	1	N	N	20	200	50	N	N	N	70
RS290S	100	1	N	N	10	70	30	N	N	N	20
RS291S	200	1	N	N	50	500	150	N	N	N	150
RS292S	500	3	N	N	70	1,000	200	70	N	20	300
RS293S	500	1	N	N	30	700	100	50	N	N	150
RS294S	700	3	N	N	70	700	150	100	N	30	300
RS295S	1,000	3	N	N	70	700	200	100	N	30	200
RS296S	100	1	N	N	10	70	15	N	N	N	20
RS297S	700	3	N	N	70	700	200	70	N	30	200

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
RS249S	70	N	20	N	300	200	N	50	N	500	N
RS250S	N	N	N	N	100	30	N	10	N	300	N
RS251S	30	N	20	N	300	150	N	20	N	200	N
RS252S	15	N	5	N	100	20	N	10	N	150	N
RS253S	10	N	5	N	100	30	N	10	N	100	N
RS255S	70	N	50	N	500	500	N	70	N	300	N
RS256S	30	N	50	N	1,000	300	N	70	N	300	N
RS257S	15	N	15	N	100	150	N	70	N	700	N
RS258S	30	N	30	N	500	200	N	50	N	200	N
RS259S	15	N	5	N	100	20	N	30	N	300	N
RS260S	15	N	5	N	100	50	N	30	N	700	N
RS261S	30	N	5	N	100	70	N	20	N	700	N
RS262S	20	N	5	N	100	70	N	20	N	700	N
RS263S	15	N	5	N	100	50	N	20	N	700	N
RS264S	50	N	15	N	200	100	N	70	N	700	N
RS265S	50	N	20	N	200	200	N	50	N	500	N
RS266S	30	N	30	N	500	300	N	30	N	300	N
RS267S	50	N	30	N	1,000	300	N	50	N	200	N
RS268S	50	N	30	N	300	200	N	70	N	300	N
RS269S	50	N	30	N	300	200	N	50	N	300	N
RS270S	50	N	30	N	300	200	N	50	N	300	N
RS271S	30	N	7	N	100	70	N	50	N	500	N
RS272S	100	N	15	N	100	100	N	100	N	>1,000	N
RS273S	30	N	15	N	200	100	N	50	N	300	N
RS274S	15	N	15	N	100	150	N	10	N	200	N
RS277S	70	N	5	N	100	100	N	50	N	1,000	N
RS279S	70	N	5	N	100	100	N	30	N	1,000	N
RS280S	50	N	30	N	300	300	N	70	N	300	N
RS281S	70	N	70	N	500	500	N	70	N	500	N
RS282S	30	N	30	N	200	200	N	50	N	300	N
RS283S	50	N	30	N	200	200	N	50	N	300	N
RS284S	15	N	5	N	100	30	N	10	N	150	N
RS285S	15	N	5	N	1 0	30	N	10	N	150	N
RS286S	15	N	10	N	100	100	N	30	N	1,000	N
RS287S	15	N	15	N	100	150	N	20	N	150	N
RS288S	10	N	5	N	100	30	N	10	N	700	N
RS289S	15	N	10	N	100	150	N	30	N	500	N
RS290S	15	N	N	N	100	50	N	20	N	1,000	N
RS291S	20	N	20	N	100	200	N	50	N	150	N
RS292S	70	N	30	N	200	300	N	50	N	1,000	N
RS293S	15	N	15	N	100	100	N	20	N	200	N
RS294S	70	N	30	N	300	300	N	50	N	700	N
RS295S	70	N	30	N	300	300	N	50	N	1,000	N
RS296S	N	N	5	N	100	50	N	20	N	150	N
RS297S	100	N	30	N	200	300	N	100	N	700	N

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
RS249S	N	40	.1	N	N	.33
RS250S	<5	10	.4	N	N	.14
RS251S	5	60	.5	N	1	.96
RS252S	N	10	N	N	N	.08
RS253S	N	10	N	N	N	.17
RS255S	N	70	.1	N	N	.44
RS256S	<5	300	.6	N	N	.78
RS257S	N	20	.2	N	N	.29
RS258S	N	75	.5	N	N	.64
RS259S	N	10	N	N	N	.10
RS260S	<5	10	.1	N	N	.12
RS261S	N	15	.2	N	N	.37
RS262S	<5	10	.1	N	N	.24
RS263S	<5	10	.2	N	N	.27
RS264S	<5	10	.2	N	N	.41
RS265S	<5	30	.1	N	N	.29
RS266S	<5	60	.2	N	N	.24
RS267S	5	150	.3	N	N	.61
RS268S	5	90	.6	N	N	.96
RS269S	<5	60	.5	N	N	1.20
RS270S	5	140	.5	N	1	1.60
RS271S	<5	15	.4	N	N	.46
RS272S	N	40	.2	N	N	.40
RS273S	5	15	.2	N	N	.40
RS274S	N	15	.1	N	N	.09
RS277S	N	10	N	N	N	.30
RS279S	N	15	N	N	N	.33
RS280S	<5	110	.5	N	N	.51
RS281S	N	70	.2	N	N	.22
RS282S	N	90	.4	N	N	.56
RS283S	<5	85	.3	N	N	.75
RS284S	N	10	.1	N	N	.17
RS285S	N	5	N	N	N	.12
RS286S	N	15	N	N	N	.13
RS287S	N	15	N	N	N	.17
RS288S	N	5	N	N	N	.10
RS289S	N	15	.1	N	N	.11
RS290S	N	10	N	N	N	.12
RS291S	N	15	N	N	N	.11
RS292S	N	35	N	N	N	.13
RS293S	N	30	N	N	N	.11
RS294S	N	50	.2	N	N	.45
RS295S	N	55	.2	N	N	.56
RS296S	N	5	N	N	N	.08
RS297S	<5	50	.1	N	N	.28

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
RS298S	34 45 47	111 41 28	20.0	10.0	7.0	>1.00	>5,000	N	N	N	100
RS299S	34 47 27	111 45 29	2.0	2.0	5.0	.50	500	N	N	N	200
RS300S	34 45 18	111 45 15	5.0	5.0	5.0	.70	500	N	N	N	200
RS301S	34 46 9	111 45 11	10.0	2.0	1.0	1.00	700	N	N	N	200
RS302S	34 48 45	111 45 50	2.0	2.0	5.0	.50	200	N	N	N	200
RS303S	34 49 13	111 45 16	2.0	2.0	5.0	.70	500	N	N	N	200
RS304S	34 49 8	111 45 16	2.0	2.0	5.0	.50	700	N	N	N	200
RS305S	34 48 56	111 44 17	20.0	>10.0	10.0	>1.00	>5,000	N	N	N	100
RS306S	34 48 57	111 44 16	1.0	.2	.5	.30	200	N	N	N	100
RS307S	34 49 19	111 44 32	1.0	.5	1.0	.50	200	N	N	N	100
RS308S	34 49 33	111 44 35	2.0	1.0	3.0	.50	200	N	N	N	150
RS309S	34 49 38	111 44 41	1.0	1.0	2.0	.50	500	N	N	N	200
RS311S	34 49 37	111 44 44	2.0	1.0	2.0	.50	500	N	N	N	200
RS316S	34 50 44	111 44 15	2.0	1.0	2.0	.50	300	N	N	N	200
RS317S	34 50 45	111 44 16	1.0	.5	2.0	.30	150	N	N	N	150
RS318S	34 46 15	111 39 48	>20.0	>10.0	7.0	>1.00	>5,000	N	N	N	100
RS319S	34 46 17	111 39 52	20.0	10.0	5.0	>1.00	>5,000	N	N	N	200
RS320S	34 44 10	111 43 44	20.0	5.0	5.0	>1.00	>5,000	N	N	N	100
RS321S	34 47 27	111 39 10	20.0	5.0	5.0	>1.00	>5,000	N	N	N	200
RS322S	34 47 29	111 39 11	20.0	10.0	5.0	>1.00	5,000	N	N	N	50
RS323S	34 47 33	111 39 10	15.0	10.0	5.0	>1.00	>5,000	N	N	N	100
RS325S	34 48 35	111 45 44	1.0	2.0	5.0	.30	200	N	N	N	70
RS326S	34 51 39	111 39 23	1.0	.2	.2	.15	200	N	N	N	50
RS328S	34 49 7	111 42 23	1.0	.5	1.0	.30	200	N	N	N	100

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
RS298S	1,500	3	N	N	100	2,000	200	100	N	50	500
RS299S	500	2	N	N	10	100	100	N	N	N	30
RS300S	500	2	N	N	15	200	50	50	N	N	70
RS301S	500	1	N	N	30	200	100	30	N	N	100
RS302S	500	1	N	N	10	200	50	N	N	N	30
RS303S	500	1	N	N	15	100	30	N	N	N	30
RS304S	200	2	N	N	15	70	100	N	N	N	30
RS305S	1,000	1	N	N	100	2,000	300	70	N	30	500
RS306S	300	1	N	N	10	70	15	N	N	N	15
RS307S	300	1	N	N	10	70	50	N	N	N	15
RS308S	500	2	N	N	10	150	50	N	N	N	15
RS309S	300	2	N	N	10	150	50	N	N	N	20
RS311S	500	2	N	N	10	200	50	N	N	N	20
RS316S	500	2	N	N	10	70	70	N	N	N	20
RS317S	300	1	N	N	5	70	20	N	N	N	15
RS318S	1,500	1	N	N	150	3,000	300	70	N	70	700
RS319S	1,500	2	N	N	100	2,000	200	150	N	30	500
RS320S	700	2	N	N	70	700	200	70	N	20	300
RS321S	1,500	2	N	N	100	1,500	300	100	N	70	300
RS322S	700	1	N	N	100	1,500	200	50	20	20	300
RS323S	700	1	N	N	100	1,000	200	70	N	20	300
RS325S	150	1	N	N	10	70	20	N	N	N	20
RS326S	100	N	N	N	10	70	15	N	N	N	50
RS328S	100	1	N	N	5	70	70	N	N	N	30

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
RS298S	100	N	50	N	500	500	N	70	N	700	N
RS299S	70	N	5	N	100	100	N	50	N	1,000	N
RS300S	50	N	15	N	100	50	N	50	N	1,000	N
RS301S	30	N	15	N	100	70	N	30	N	1,000	N
RS302S	50	N	10	N	100	30	N	30	N	200	N
RS303S	50	N	10	N	100	30	N	20	N	1,000	N
RS304S	70	N	5	N	100	70	N	50	N	1,000	N
RS305S	70	N	70	N	500	500	N	50	N	500	N
RS306S	10	N	5	N	100	30	N	10	N	200	N
RS307S	20	N	10	N	100	50	N	70	N	>1,000	N
RS308S	30	N	10	N	100	50	N	50	N	>1,000	N
RS309S	50	N	5	N	100	100	N	50	N	>1,000	N
RS311S	50	N	10	N	100	70	N	30	N	1,000	N
RS316S	70	N	5	N	100	70	N	20	N	700	N
RS317S	50	N	5	N	100	30	N	20	N	200	N
RS318S	200	N	50	N	700	700	N	70	N	200	N
RS319S	70	N	30	N	500	300	N	70	N	300	N
RS320S	70	N	30	N	300	500	N	70	N	500	N
RS321S	70	N	30	N	500	500	N	70	N	1,000	N
RS322S	70	N	30	N	200	200	N	50	N	200	N
RS323S	50	N	20	N	200	200	N	50	N	150	N
RS325S	10	N	5	N	100	30	N	20	N	1,000	N
RS326S	10	N	5	N	100	30	N	10	N	1,000	N
RS328S	15	N	5	N	100	30	N	10	N	700	N

Table 1. Analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
RS298S	<5	65	.2	N	N	.54
RS299S	N-	10	N	N	N	.31
RS300S	<5	20	N	N	N	.28
RS301S	<5	35	N	N	N	.13
RS302S	<5	15	N	N	N	.21
RS303S	N	10	N	N	N	.26
RS304S	N	10	N	N	N	.24
RS305S	N	15	.1	N	N	.06
RS306S	N	10	N	N	N	.11
RS307S	N	15	N	N	N	.36
RS308S	<5	15	N	N	N	.24
RS309S	<5	15	N	N	N	.29
RS311S	<5	15	.1	N	N	.13
RS316S	N	15	N	N	N	.17
RS317S	N	15	N	N	N	.26
RS318S	N	75	.2	N	N	.56
RS319S	5	85	N	N	N	.78
RS320S	<5	55	N	N	N	.47
RS321S	N	60	N	N	N	.74
RS322S	<5	45	N	N	N	.44
RS323S	N	50	N	N	N	.49
RS325S	N	10	N	N	N	.22
RS326S	N	10	N	N	N	.09
RS328S	N	10	N	N	N	.10

Table 2. Fisher-K statistics on analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

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

NO	COLUMN	N	H	L	G	B	T	OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	LATITUDE	0	0	0	0	0	0	114	0	34.696111	34.873889	1
2	LONGITUD	0	0	0	0	0	0	114	0	111.64000	111.77472	2
3	S-FE%	0	0	0	1	0	0	113	0	0.5000000	20.000000	3
4	S-MG%	0	0	0	3	0	0	111	0	0.1000000	10.000000	4
5	S-CA%	0	0	0	0	0	0	114	0	0.1000000	20.000000	5
6	S-TI%	0	0	0	13	0	0	101	0	0.0700000	1.0000000	6
7	S-MN	0	0	0	9	0	0	105	0	100.00000	5000.0000	7
8	S-AG	113	0	0	0	0	0	1	0	1.0000000	1.0000000	8
9	S-AS	114	0	0	0	0	0	0	0			9
10	S-AU	114	0	0	0	0	0	0	0			10
11	S-B	0	0	0	0	0	0	114	0	10.000000	200.00000	11
12	S-BA	0	0	0	0	0	0	114	0	20.000000	2000.0000	12
13	S-BE	14	0	0	0	0	0	100	0	1.0000000	5.0000000	13
14	S-BI	114	0	0	0	0	0	0	0			14
15	S-CD	114	0	0	0	0	0	0	0			15
16	S-CO	0	0	0	0	0	0	114	0	5.0000000	200.00000	16
17	S-CR	0	0	0	0	0	0	114	0	10.000000	3000.0000	17
18	S-CU	0	0	0	0	0	0	114	0	7.0000000	700.00000	18
19	S-LA	58	0	0	0	0	0	56	0	20.000000	200.00000	19
20	S-MO	112	0	0	0	0	0	2	0	5.0000000	20.000000	20
21	S-NB	77	0	8	0	0	0	29	0	20.000000	70.000000	21
22	S-NI	0	0	0	0	0	0	114	0	7.0000000	700.00000	22
23	S-PB	2	0	2	0	0	0	110	0	10.000000	200.00000	23
24	S-SB	114	0	0	0	0	0	0	0			24
25	S-SC	5	0	3	0	0	0	106	0	5.0000000	70.000000	25
26	S-SN	114	0	0	0	0	0	0	0			26
27	S-SR	0	0	0	0	0	0	114	0	100.00000	1000.0000	27
28	S-V	0	0	0	0	0	0	114	0	20.000000	700.00000	28
29	S-W	114	0	0	0	0	0	0	0			29
30	S-Y	0	0	0	0	0	0	114	0	10.000000	100.00000	30
31	S-ZN	114	0	0	0	0	0	0	0			31
32	S-ZR	0	0	0	4	0	0	110	0	100.00000	1000.0000	32
33	S-TH	114	0	0	0	0	0	0	0			33
34	AA-AS-P	53	0	43	0	0	0	18	0	5.0000000	20.000000	34
35	AA-ZN-P	0	0	0	0	0	0	114	0	5.0000000	300.00000	35
36	AA-CD-P	43	0	0	0	0	0	71	0	0.1000000	0.6000000	36
37	AA-BI-P	101	0	12	0	0	0	1	0	2.0000000	2.0000000	37
38	AA-SB-P	106	0	0	0	0	0	8	0	1.0000000	2.0000000	38
39	U-INST	0	0	0	0	0	0	114	0	0.0600000	1.6000000	39

Table 2. Fisher-K statistics on analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	LATITUDE	34.800012	0.0445639	0.0019859	-3.6562715D-05	-0.4131313	-2.4151623D-06	-0.6123681	1
2	LONGITUD	111.71333	0.0348155	0.0012121	-1.2188418D-05	-0.2888213	-1.2967212D-06	-0.8825836	2
3	S-FE%	5.9858407	6.2627423	39.221941	285.62300	1.1627854	262.31947	0.1705188	3
4	S-MG%	2.2819820	2.5654062	6.5813088	31.585608	1.8707719	129.46790	2.9890803	4
5	S-CA%	3.0184211	3.4853058	12.147357	113.50285	2.6809213	1407.9872	9.5419059	5
6	S-TI%	0.4640594	0.2714670	0.0736944	0.0150278	0.7511779	-0.0016152	-0.2974167	6
7	S-MN	1148.0952	1332.8852	1776582.9	4.4309451D+09	1.8711912	9.0803924D+12	2.8769590	7
8	S-AG	1.0000000							8
9	S-AS								9
10	S-AU								10
11	S-B	99.298246	53.426308	2854.3704	129268.57	0.8476712	-1853626.9	-0.2275106	11
12	S-BA	572.54386	406.66964	165380.20	60064114.	0.8930789	1.4547540D+10	0.5318909	12
13	S-BE	1.4500000	0.7299509	0.5328283	0.7490724	1.9259405	1.3755369	4.8450437	13
14	S-BI								14
15	S-CD								15
16	S-CO	31.578947	34.341568	1179.3433	78120.916	1.9288879	6957326.4	5.0022099	16
17	S-CR	380.00000	523.76276	274327.43	3.5317456D+08	2.4580208	5.2400809D+11	6.9630499	17
18	S-CU	92.298246	88.320708	7800.5474	2375982.6	3.4487018	1.1769239D+09	19.341860	18
19	S-LA	64.642857	36.179567	1308.9610	97097.547	2.0503036	9990482.8	5.8308657	19
20	S-MO	12.500000	10.606602	112.50000					20
21	S-NB	27.931034	13.464055	181.28079	5821.5654	2.3851303	180474.09	5.4917567	21
22	S-NI	114.37719	135.49022	18357.600	4644262.3	1.8672088	1.2606407D+09	3.7407573	22
23	S-PB	43.136364	29.567673	874.24729	40755.796	1.5766596	4422297.8	5.7860128	23
24	S-SB								24
25	S-SC	16.905660	13.955390	194.75292	4167.0770	1.5332238	106641.96	2.8116429	25
26	S-SN								26
27	S-SR	227.19298	198.34942	39342.493	16448139.	2.1077736	7.3894594D+09	4.7740714	27
28	S-V	151.05263	137.14774	18809.502	4012301.4	1.5553481	8.6027552D+08	2.4315488	28
29	S-W								29
30	S-Y	36.885965	22.305108	497.51785	5729.0599	0.5162622	-138739.41	-0.5605089	30
31	S-ZN								31
32	S-ZR	480.00000	298.86636	89321.101	16950765.	0.6349773	-7.6967019D+09	-0.9647094	32
33	S-TH								33
34	AA-AS-P	6.3888889	3.7595195	14.133987	170.44526	3.2076569	2188.5212	10.955227	34
35	AA-ZN-P	36.535088	41.296077	1705.3660	213709.46	3.0345712	41992076.	14.438835	35
36	AA-CD-P	0.2535211	0.1432590	0.0205231	0.0025643	0.8721826	-7.7881089D-05	-0.1849032	36
37	AA-BI-P	2.0000000							37
38	AA-SB-P	1.2500000	0.4629100	0.2142857	0.1428571	1.4401646	0.0	0.0	38
39	U-INST	0.3737719	0.2669639	0.0712697	0.0317188	1.6670906	0.0195735	3.8535231	39

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

Table 3. Statistical analyses for 20 rock samples of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

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

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.87	3.87
-4.170E-01 -	-2.503E-01	5	5	4.39	4.39	3.75	0.41
-2.503E-01 -	-8.367E-02	7	12	6.14	10.53	6.09	0.13
-8.367E-02 -	8.300E-02	25	37	21.93	32.46	8.90	29.11
8.300E-02 -	2.497E-01	0	37	0.00	32.46	11.71	11.71
2.497E-01 -	4.163E-01	19	56	16.67	49.12	13.85	1.91
4.163E-01 -	5.830E-01	8	64	7.02	56.14	14.75	3.09
5.830E-01 -	7.497E-01	4	68	3.51	59.65	14.14	7.27
7.497E-01 -	9.163E-01	11	79	9.65	69.30	12.20	0.12
9.163E-01 -	1.083E+00	17	96	14.91	84.21	9.47	5.98
1.083E+00 -	1.250E+00	5	101	4.39	88.60	6.62	0.40
1.250E+00 -	1.416E+00	12	113	10.53	99.12	8.62	1.32
G		1	114	0.88	100.00	3.87	2.13
H		0	114				
B		0	114				

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

```
4.638E-01 XXXX
6.808E-01 XXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXX
1.467E+00
2.153E+00 XXXXXXXXXXXXXXXXX
3.160E+00 XXXXXXX
4.639E+00 XXXX
6.808E+00 XXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXX
1.467E+01 XXXX
2.153E+01 XXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E-01
MAXIMUM ANTILOG	=	2.00000E+01
GEOMETRIC MEAN	=	3.22947E+00
GEOMETRIC DEVIATION	=	3.22159E+00
VARIANCE OF LOGS	=	2.58135E-01

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	9.800616E-01	9.551281E+00
90.00	1.271892E+00	1.870218E+01
95.00	1.351059E+00	2.244187E+01
98.00	1.398559E+00	2.503567E+01

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	1.32	1.32
-1.084E+00	-9.173E-01	2	2	1.75	1.75	1.56	0.12
-9.173E-01	-7.507E-01	0	2	0.00	1.75	2.87	2.87
-7.507E-01	-5.840E-01	17	19	14.91	16.67	4.79	31.09
-5.840E-01	-4.173E-01	1	20	0.88	17.54	7.25	5.39
-4.173E-01	-2.507E-01	11	31	9.65	27.19	9.94	0.11
-2.507E-01	-8.400E-02	7	38	6.14	33.33	12.35	2.32
-8.400E-02	8.267E-02	16	54	14.04	47.37	13.91	0.31
8.267E-02	2.493E-01	0	54	0.00	47.37	14.20	14.20
2.493E-01	4.160E-01	27	81	23.68	71.05	13.14	14.62
4.160E-01	5.827E-01	11	92	9.65	80.70	11.02	0.00
5.827E-01	7.493E-01	9	101	7.89	88.60	8.37	0.05
7.493E-01	9.160E-01	3	104	2.63	91.23	5.77	1.33
9.160E-01	1.083E+00	7	111	6.14	97.37	7.49	0.03
	G	3	114	2.63	100.00	1.32	2.13
	H	0	114				
	B	0	114				

TOTALS LESS H AND B 114

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

```
9.985E-02 XX
1.466E-01
2.151E-01 XXXXXXXXXXXXXX
3.157E-01 X
4.634E-01 XXXXXXXXXX
6.802E-01 XXXXXX
9.985E-01 XXXXXXXXXXXXX
1.466E+00
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXXX
3.157E+00 XXXXXXXXXX
4.635E+00 XXXXXXXX
6.803E+00 XXX
9.985E+00 XXXXXX
```

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	4.841849E-01	3.049193E+00
90.00	8.382261E-01	6.890109E+00
95.00	1.018385E+00	1.043242E+01
99.00	1.000000E+35	1.000000E+35

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E-01
MAXIMUM ANTILOG      =  1.00000E+01
GEOMETRIC MEAN       =  1.24081E+00
GEOMETRIC DEVIATION  =  3.27904E+00
VARIANCE OF LOGS     =  2.65995E-01
```

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.88	0.88
-1.084E+00	-9.173E-01	3	3	2.63	2.63	1.11	3.24
-9.173E-01	-7.507E-01	0	3	0.00	2.63	2.12	2.12
-7.507E-01	-5.840E-01	13	16	11.40	14.04	3.70	23.37
-5.840E-01	-4.173E-01	0	16	0.00	14.04	5.86	5.86
-4.173E-01	-2.507E-01	9	25	7.89	21.93	8.42	0.04
-2.507E-01	-8.400E-02	1	26	0.88	22.81	11.00	9.09
-8.400E-02	8.267E-02	20	46	17.54	40.35	13.04	3.71
8.267E-02	2.493E-01	0	46	0.00	40.35	14.05	14.05
2.493E-01	4.160E-01	26	72	22.81	63.16	13.75	10.91
4.160E-01	5.827E-01	7	79	6.14	69.30	12.22	2.23
5.827E-01	7.493E-01	24	103	21.05	90.35	9.87	20.23
7.493E-01	9.160E-01	4	107	3.51	93.86	7.24	1.45
9.160E-01	1.083E+00	4	111	3.51	97.37	4.82	0.14
1.083E+00	1.249E+00	1	112	0.88	98.25	2.92	1.26
1.249E+00	1.416E+00	2	114	1.75	100.00	3.00	0.33
G		0	114	0.00	100.00	0.88	0.88
H		0	114				
B		0	114				

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

```
9.985E-02 XXX
1.466E-01
2.151E-01 XXXXXXXXXXX
3.157E-01
4.634E-01 XXXXXXXX
6.802E-01 X
9.985E-01 XXXXXXXXXXXXXXXXX
1.466E+00
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXX
3.157E+00 XXXXXX
4.635E+00 XXXXXXXXXXXXXXXXXXXX
6.803E+00 XXXX
9.985E+00 XXXX
1.466E+01 X
2.151E+01 XX
```

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABL
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTIO
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	6.278090E-01	4.244328E+00
90.00	7.465592E-01	5.579037E+00
95.00	9.701708E-01	9.336214E+00
98.00	1.202671E+00	1.594672E+01

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E-01
MAXIMUM ANTILOG      = 2.00000E+01
GEOMETRIC MEAN       = 1.62869E+00
GEOMETRIC DEVIATION  = 3.42976E+00
VARIANCE OF LOGS     = 2.86507E-01
```

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.17	0.17
-1.250E+00	-1.083E+00	1	1	0.88	0.88	0.75	0.08
-1.083E+00	-9.167E-01	7	8	6.14	7.02	2.80	6.33
-9.167E-01	-7.500E-01	2	10	1.75	8.77	7.64	4.16
-7.500E-01	-5.833E-01	13	23	11.40	20.18	15.39	0.37
-5.833E-01	-4.167E-01	23	46	20.18	40.35	22.83	0.00
-4.167E-01	-2.500E-01	32	78	28.07	68.42	24.97	1.98
-2.500E-01	-8.333E-02	9	87	7.89	76.32	20.12	6.14
-8.333E-02	8.334E-02	14	101	12.28	88.60	19.33	1.47
G		13	114	11.40	100.00	0.17	947.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
6.813E-02 X
1.000E-01 XXXXXX
1.468E-01 XX
2.154E-01 XXXXXXXXXXX
3.162E-01 XXXXXXXXXXXXXXXXXXXX
4.642E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E-01 XXXXXXXX
1.000E+00 XXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 7.00000E-02
MAXIMUM ANTILOG      = 1.00000E+00
GEOMETRIC MEAN       = 3.84350E-01
GEOMETRIC DEVIATION  = 1.92024E+00
VARIANCE OF LOGS.    = 8.02908E-02
```

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	-1.111038E-01	7.742677E-01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	-	0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.53	3.53
1.916E+00 -	2.083E+00	2	2	1.75	1.75	3.47	0.62
2.083E+00 -	2.249E+00	7	9	6.14	7.89	5.70	0.30
2.249E+00 -	2.416E+00	20	29	17.54	25.44	8.43	15.89
2.416E+00 -	2.583E+00	11	40	9.65	35.09	11.23	0.00
2.583E+00 -	2.749E+00	16	56	14.04	49.12	13.50	0.46
2.749E+00 -	2.916E+00	5	61	4.39	53.51	14.61	6.32
2.916E+00 -	3.083E+00	10	71	8.77	62.28	14.26	1.27
3.083E+00 -	3.249E+00	11	82	9.65	71.93	12.54	0.19
3.249E+00 -	3.416E+00	11	93	9.65	81.58	9.94	0.11
3.416E+00 -	3.583E+00	4	97	3.51	85.09	7.10	1.35
3.583E+00 -	3.749E+00	8	105	7.02	92.11	9.70	0.30
G		9	114	7.89	100.00	3.53	8.49
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
9.985E+01 XX
1.466E+02 XXXXXX
2.151E+02 XXXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXX
4.634E+02 XXXXXXXXXXXXX
6.802E+02 XXXX
9.985E+02 XXXXXXXXX
1.466E+03 XXXXXXXXXX
2.151E+03 XXXXXXXXXX
3.157E+03 XXXX
4.635E+03 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E+02
MAXIMUM ANTILOG      = 5.00000E+03
GEOMETRIC MEAN       = 6.40144E+02
GEOMETRIC DEVIATION  = 2.97507E+00
VARIANCE OF LOGS     = 2.24199E-01
```

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	3.302366E+00	2.006164E+03
90.00	3.699337E+00	5.004226E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
9.160E-01 -	1.083E+00	2	2	1.75	1.75	0.05	69.26
1.083E+00 -	1.249E+00	0	2	0.00	1.75	0.42	0.42
1.249E+00 -	1.416E+00	2	4	1.75	3.51	2.18	0.02
1.416E+00 -	1.583E+00	3	7	2.63	6.14	7.54	2.74
1.583E+00 -	1.749E+00	21	28	18.42	24.56	17.42	0.73
1.749E+00 -	1.916E+00	21	49	18.42	42.98	26.92	1.30
1.916E+00 -	2.083E+00	42	91	36.84	79.82	27.84	7.20
2.083E+00 -	2.249E+00	3	94	2.63	82.46	19.26	13.73
2.249E+00 -	2.416E+00	20	114	17.54	100.00	12.34	4.75
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
9.985E+00 XX
1.466E+01
2.151E+01 XX
3.157E+01 XXX
4.634E+01 XXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+02 XXX
2.151E+02 XXXXXXXXXXXXXXXXXX
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E+01
MAXIMUM ANTILOG      = 2.00000E+02
GEOMETRIC MEAN       = 8.50927E+01
GEOMETRIC DEVIATION  = 1.81331E+00
VARIANCE OF LOGS     = 6.68079E-02
```

PERCENT TABLE FOR VARIABLE 11 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	2.060844E+00	1.150386E+02	98.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35			
95.00	1.000000E+35	1.000000E+35			

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.02	0.02
1.250E+00 -	1.417E+00	1	1	0.88	0.88	0.07	12.07
1.417E+00 -	1.583E+00	0	1	0.00	0.88	0.28	0.28
1.583E+00 -	1.750E+00	2	3	1.75	2.63	0.90	1.36
1.750E+00 -	1.917E+00	0	3	0.00	2.63	2.40	2.40
1.917E+00 -	2.083E+00	10	13	8.77	11.40	5.31	4.14
2.083E+00 -	2.250E+00	5	18	4.39	15.79	9.75	2.32
2.250E+00 -	2.417E+00	12	30	10.53	26.32	14.84	0.55
2.417E+00 -	2.583E+00	17	47	14.91	41.23	18.72	0.16
2.583E+00 -	2.750E+00	20	67	17.54	58.77	19.58	0.01
2.750E+00 -	2.917E+00	17	84	14.91	73.68	16.97	0.00
2.917E+00 -	3.083E+00	23	107	20.18	93.86	12.19	9.60
3.083E+00 -	3.250E+00	6	113	5.26	99.12	7.25	0.22
3.250E+00 -	3.417E+00	1	114	0.88	100.00	5.72	3.89
G		0	114	0.00	100.00	0.02	0.02
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
2.154E+01 X
3.162E+01
4.642E+01 XX
6.813E+01
1.000E+02 XXXXXXXXX
1.468E+02 XXXX
2.154E+02 XXXXXXXXXXX
3.162E+02 XXXXXXXXXXXXXXX
4.642E+02 XXXXXXXXXXXXXXXXXX
6.813E+02 XXXXXXXXXXXXXX
1.000E+03 XXXXXXXXXXXXXXXXXXXX
1.468E+03 XXXXX
2.154E+03 X
```

PERCENT TABLE FOR VARIABLE 12 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.927540E+00	8.463297E+02
90.00	3.051453E+00	1.125778E+03
95.00	3.119448E+00	1.316583E+03
98.00	3.214448E+00	1.638507E+03

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 2.00000E+01
MAXIMUM ANTILOG      = 2.00000E+03
GEOMETRIC MEAN       = 4.19628E+02
GEOMETRIC DEVIATION  = 2.40796E+00
VARIANCE OF LOGS     = 1.45656E-01
```

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 13 (S-BE)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	14	14	12.28	12.28		
L	0	14	0.00	12.28		
T	0	14	0.00	12.28	15.24	15.24
-8.400E-02 - 8.267E-02	66	80	57.89	70.18	35.67	25.79
8.267E-02 - 2.493E-01	0	80	0.00	70.18	40.25	40.25
2.493E-01 - 4.160E-01	25	105	21.93	92.11	18.88	1.99
4.160E-01 - 5.827E-01	8	113	7.02	99.12	3.66	5.15
5.827E-01 - 7.493E-01	1	114	0.88	100.00	0.30	1.63
G	0	114	0.00	100.00	0.00	0.00
H	0	114				
B	0	114				

TOTALS LESS H AND B 114

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

```
9.985E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+00
2.151E+00 XXXXXXXXXXXXXXXXXXXXXX
3.157E+00 XXXXXXX
4.634E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG       =  1.00000E+00
MAXIMUM ANTILOG       =  5.00000E+00
GEOMETRIC MEAN        =  1.31952E+00
GEOMETRIC DEVIATION   =  1.50547E+00
VARIANCE OF LOGS      =  3.15674E-02
```

PERCENT TABLE FOR VARIABLE 13 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW TH LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.560005E-01	1.432189E+00
90.00	3.840009E-01	2.421034E+00
95.00	4.847511E-01	3.053171E+00
98.00	5.560013E-01	3.597504E+00

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	8.01	8.01
5.830E-01 -	7.497E-01	29	29	25.44	25.44	7.15	66.76
7.497E-01 -	9.163E-01	0	29	0.00	25.44	10.64	10.64
9.163E-01 -	1.083E+00	23	52	20.18	45.61	13.92	5.92
1.083E+00 -	1.250E+00	9	61	7.89	53.51	16.00	3.06
1.250E+00 -	1.416E+00	6	67	5.26	58.77	16.16	6.39
1.416E+00 -	1.583E+00	12	79	10.53	69.30	14.34	0.38
1.583E+00 -	1.750E+00	13	92	11.40	80.70	11.19	0.29
1.750E+00 -	1.916E+00	13	105	11.40	92.11	7.67	3.70
1.916E+00 -	2.083E+00	7	112	6.14	98.25	4.62	1.22
2.083E+00 -	2.250E+00	1	113	0.88	99.12	2.45	0.86
2.250E+00 -	2.416E+00	1	114	0.88	100.00	1.84	0.39
G		0	114	0.00	100.00	8.01	8.01
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00
9.992E+00 XXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXX
2.153E+01 XXXXX
3.160E+01 XXXXXXXXXXX
4.638E+01 XXXXXXXXXXX
6.808E+01 XXXXXXXXXXX
9.992E+01 XXXXXX
1.467E+02 X
2.153E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+00
MAXIMUM ANTILOG	=	2.00000E+02
GEOMETRIC MEAN	=	1.83063E+01
GEOMETRIC DEVIATION	=	2.89182E+00
VARIANCE OF LOGS	=	2.12679E-01

PERCENT TABLE FOR VARIABLE 16 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.666335E+00	4.638051E+01
90.00	1.885567E+00	7.683635E+01
95.00	1.994908E+00	9.883428E+01
98.00	2.076336E+00	1.192165E+02

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.93	0.93
9.160E-01 -	1.083E+00	1	1	0.88	0.88	1.10	0.01
1.083E+00 -	1.249E+00	0	1	0.00	0.88	2.07	2.07
1.249E+00 -	1.416E+00	4	5	3.51	4.39	3.55	0.06
1.416E+00 -	1.583E+00	6	11	5.26	9.65	5.57	0.03
1.583E+00 -	1.749E+00	14	25	12.28	21.93	7.96	4.58
1.749E+00 -	1.916E+00	15	40	13.16	35.09	10.41	2.03
1.916E+00 -	2.083E+00	10	50	8.77	43.86	12.43	0.47
2.083E+00 -	2.249E+00	10	60	8.77	52.63	13.55	0.93
2.249E+00 -	2.416E+00	13	73	11.40	64.04	13.50	0.02
2.416E+00 -	2.583E+00	7	80	6.14	70.18	12.29	2.28
2.583E+00 -	2.749E+00	7	87	6.14	76.32	10.21	1.01
2.749E+00 -	2.916E+00	13	100	11.40	87.72	7.76	3.55
2.916E+00 -	3.083E+00	6	106	5.26	92.98	5.38	0.07
3.083E+00 -	3.249E+00	3	109	2.63	95.61	3.41	0.05
3.249E+00 -	3.416E+00	4	113	3.51	99.12	1.97	2.08
3.416E+00 -	3.583E+00	1	114	0.88	100.00	1.91	0.43
G		0	114	0.00	100.00	0.93	0.93
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 17 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 X
1.466E+01
2.151E+01 XXXX
3.157E+01 XXXXX
4.634E+01 XXXXXXXXXXX
6.802E+01 XXXXXXXXXXXX
9.985E+01 XXXXXXXXX
1.466E+02 XXXXXXXXX
2.151E+02 XXXXXXXXXX
3.157E+02 XXXXXX
4.635E+02 XXXXXX
6.803E+02 XXXXXXXXXX
9.985E+02 XXXXX
1.466E+03 XXX
2.151E+03 XXXX
3.157E+03 X
```

PERCENT TABLE FOR VARIABLE 17 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.713623E+00	5.171573E+02
90.00	2.988226E+00	9.732543E+02
95.00	3.210449E+00	1.623488E+03
98.00	3.362672E+00	2.305003E+03

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 3.00000E+03
GEOMETRIC MEAN = 1.74736E+02
GEOMETRIC DEVIATION = 3.56336E+00
VARIANCE OF LOGS = 3.04548E-01

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.24	0.24
7.500E-01 -	9.167E-01	1	1	0.88	0.88	0.66	0.18
9.167E-01 -	1.083E+00	1	2	0.88	1.75	1.90	0.43
1.083E+00 -	1.250E+00	11	13	9.65	11.40	4.52	9.28
1.250E+00 -	1.417E+00	4	17	3.51	14.91	8.83	2.65
1.417E+00 -	1.583E+00	9	26	7.89	22.81	14.17	1.89
1.583E+00 -	1.750E+00	21	47	18.42	41.23	18.66	0.29
1.750E+00 -	1.917E+00	22	69	19.30	60.53	20.17	0.17
1.917E+00 -	2.083E+00	21	90	18.42	78.95	17.91	0.53
2.083E+00 -	2.250E+00	8	98	7.02	85.96	13.05	1.96
2.250E+00 -	2.417E+00	11	109	9.65	95.61	7.81	1.30
2.417E+00 -	2.583E+00	4	113	3.51	99.12	3.84	0.01
2.583E+00 -	2.750E+00	0	113	0.00	99.12	1.55	1.55
2.750E+00 -	2.917E+00	1	114	0.88	100.00	0.69	0.14
G		0	114	0.00	100.00	0.24	0.24
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

29

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

```
6.813E+00 X
1.000E+01 X
1.468E+01 XXXXXXXXXX
2.154E+01 XXXX
3.162E+01 XXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXX
2.154E+02 XXXXXXXXXX
3.162E+02 XXXX
4.642E+02
6.813E+02 X
```

PERCENT TABLE FOR VARIABLE 18 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.047622E+00	1.115891E+02
90.00	2.319700E+00	2.087854E+02
95.00	2.406064E+00	2.547205E+02
98.00	2.530004E+00	3.388469E+02

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 7.00000E+00
MAXIMUM ANTILOG      = 7.00000E+02
GEOMETRIC MEAN       = 6.54643E+01
GEOMETRIC DEVIATION  = 2.35630E+00
VARIANCE OF LOGS     = 1.38556E-01
```

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

1

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		58	58	50.88	50.88		
L		0	58	0.00	50.88		
T		0	58	0.00	50.88	18.24	18.24
1.250E+00 -	1.417E+00	4	62	3.51	54.39	21.49	14.24
1.417E+00 -	1.583E+00	7	69	6.14	60.53	27.01	14.83
1.583E+00 -	1.750E+00	17	86	14.91	75.44	23.80	1.94
1.750E+00 -	1.917E+00	19	105	16.67	92.11	14.69	1.26
1.917E+00 -	2.083E+00	6	111	5.26	97.37	6.36	0.02
2.083E+00 -	2.250E+00	1	112	0.88	98.25	1.93	0.45
2.250E+00 -	2.417E+00	2	114	1.75	100.00	0.48	4.86
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

30

```
2.154E+01 XXXX
3.162E+01 XXXXXX
4.642E+01 XXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXX
1.000E+02 XXXXX
1.468E+02 X
2.154E+02 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  2.00000E+02
GEOMETRIC MEAN       =  5.68420E+01
GEOMETRIC DEVIATION  =  1.66656E+00
VARIANCE OF LOGS     =  4.92041E-02
```

PERCENT TABLE FOR VARIABLE 19 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.745099E+00	5.560310E+01
90.00	1.895615E+00	7.863490E+01
95.00	2.008335E+00	1.019377E+02
98.00	2.203335E+00	1.597112E+02

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

1

FREQUENCY TABLE FOR VARIABLE 20 (S-MO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		112	112	98.25	98.25		
L		0	112	0.00	98.25		
T		0	112	0.00	98.25	1.80	1.80
5.830E-01 -	7.497E-01	1	113	0.88	99.12	88.23	86.24
7.497E-01 -	9.163E-01	0	113	0.00	99.12	23.96	23.96
9.163E-01 -	1.083E+00	0	113	0.00	99.12	0.00	0.00
1.083E+00 -	1.250E+00	0	113	0.00	99.12	0.00	0.00
1.250E+00 -	1.416E+00	1	114	0.88	100.00	0.01	101.65
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 20 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 X
6.808E+00
9.992E+00
1.467E+01
2.153E+01 X
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 1.00000E+01
GEOMETRIC DEVIATION = 2.66514E+00
VARIANCE OF LOGS = 1.81238E-01

PERCENT TABLE FOR VARIABLE 20 (S-MO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 21 (S-NB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	-	77	77	67.54	67.54		
L		8	85	7.02	74.56		
T		0	85	0.00	74.56	22.25	22.25
1.250E+00 -	1.417E+00	16	101	14.04	88.60	72.01	43.57
1.417E+00 -	1.583E+00	10	111	8.77	97.37	19.39	4.55
1.583E+00 -	1.750E+00	1	112	0.88	98.25	0.00	0.00
1.750E+00 -	1.917E+00	2	114	1.75	100.00	0.35	7.85
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
2.154E+01 XXXXXXXXXXXXXX
3.162E+01 XXXXXXXXX
4.642E+01 X
6.813E+01 XX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  7.00000E+01
GEOMETRIC MEAN       =  2.58818E+01
GEOMETRIC DEVIATION  =  1.43802E+00
VARIANCE OF LOGS     =  2.48895E-02
```

PERCENT TABLE FOR VARIABLE 21 (S-NB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.443334E+00	2.775452E+01
95.00	1.538334E+00	3.454092E+01
98.00	1.703334E+00	5.050499E+01

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.34	3.34
7.500E-01 -	9.167E-01	2	2	1.75	1.75	3.19	0.44
9.167E-01 -	1.083E+00	8	10	7.02	8.77	5.20	1.51
1.083E+00 -	1.250E+00	11	21	9.65	18.42	7.70	1.41
1.250E+00 -	1.417E+00	20	41	17.54	35.96	10.35	9.00
1.417E+00 -	1.583E+00	11	52	9.65	45.61	12.62	0.21
1.583E+00 -	1.750E+00	9	61	7.89	53.51	13.96	1.77
1.750E+00 -	1.917E+00	5	66	4.39	57.89	14.03	5.81
1.917E+00 -	2.083E+00	7	73	6.14	64.04	12.78	2.62
2.083E+00 -	2.250E+00	15	88	13.16	77.19	10.57	1.85
2.250E+00 -	2.417E+00	9	97	7.89	85.09	7.94	0.14
2.417E+00 -	2.583E+00	11	108	9.65	94.74	5.41	5.78
2.583E+00 -	2.750E+00	5	113	4.39	99.12	3.34	0.82
2.750E+00 -	2.917E+00	1	114	0.88	100.00	3.56	1.84
G		0	114	0.00	100.00	3.34	3.34
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
6.813E+00 XX
1.000E+01 XXXXXXX
1.468E+01 XXXXXXXXXX
2.154E+01 XXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXXX
4.642E+01 XXXXXXXX
6.813E+01 XXXX
1.000E+02 XXXXXX
1.468E+02 XXXXXXXXXXXX
2.154E+02 XXXXXXXX
3.162E+02 XXXXXXXXXX
4.642E+02 XXXX
6.813E+02 X
```

PERCENT TABLE FOR VARIABLE 22 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.222225E+00	1.668112E+02
90.00	2.501519E+00	3.173355E+02
95.00	2.593337E+00	3.920460E+02
98.00	2.707337E+00	5.097266E+02

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 7.00000E+00
MAXIMUM ANTILOG      = 7.00000E+02
GEOMETRIC MEAN       = 5.72094E+01
GEOMETRIC DEVIATION  = 3.41081E+00
VARIANCE OF LOGS     = 2.83937E-01
```

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		2	2	1.75	1.75		
L		2	4	1.75	3.51		
T		0	4	0.00	3.51	3.81	3.81
9.160E-01 -	1.083E+00	12	16	10.53	14.04	6.84	3.89
1.083E+00 -	1.249E+00	15	31	13.16	27.19	13.26	0.23
1.249E+00 -	1.416E+00	11	42	9.65	36.84	19.88	3.97
1.416E+00 -	1.583E+00	18	60	15.79	52.63	23.05	1.11
1.583E+00 -	1.749E+00	21	81	18.42	71.05	20.66	0.01
1.749E+00 -	1.916E+00	27	108	23.68	94.74	14.32	11.23
1.916E+00 -	2.083E+00	5	113	4.39	99.12	7.67	0.93
2.083E+00 -	2.249E+00	0	113	0.00	99.12	3.18	3.18
2.249E+00 -	2.416E+00	1	114	0.88	100.00	1.33	0.08
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
9.985E+00 XXXXXXXXXXX
1.466E+01 XXXXXXXXXXXXX
2.151E+01 XXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXX
1.466E+02
2.151E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 3.39113E+01
GEOMETRIC DEVIATION = 2.06817E+00
VARIANCE OF LOGS = 9.95949E-02

PERCENT TABLE FOR VARIABLE 23 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
			95.00	1.926002E+00	8.433387E+01
75.00	1.777113E+00	5.985671E+01	98.00	2.040002E+00	1.096484E+02
90.00	1.882669E+00	7.632531E+01			

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		5	5	4.39	4.39		
	L		3	8	2.63	7.02		
	T		0	8	0.00	7.02	9.57	9.57
5.830E-01	-	7.497E-01	35	43	30.70	37.72	11.37	49.08
7.497E-01	-	9.163E-01	6	49	5.26	42.98	17.35	7.43
9.163E-01	-	1.083E+00	13	62	11.40	54.39	21.16	3.15
1.083E+00	-	1.250E+00	11	73	9.65	64.04	20.63	4.50
1.250E+00	-	1.416E+00	11	84	9.65	73.68	16.08	1.61
1.416E+00	-	1.583E+00	24	108	21.05	94.74	10.02	19.51
1.583E+00	-	1.750E+00	4	112	3.51	98.25	4.99	0.20
1.750E+00	-	1.916E+00	2	114	1.75	100.00	2.82	0.24
	G		0	114	0.00	100.00	0.00	0.00
	H		0	114				
	B		0	114				

TOTALS LESS H AND B 114

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

35

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXX
9.993E+00 XXXXXXXXXXX
1.467E+01 XXXXXXXXXX
2.153E+01 XXXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXXXX
4.638E+01 XXXX
6.808E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+00
MAXIMUM ANTILOG      = 7.00000E+01
GEOMETRIC MEAN       = 1.23508E+01
GEOMETRIC DEVIATION  = 2.22088E+00
VARIANCE OF LOGS     = 1.20080E-01
```

PERCENT TABLE FOR VARIABLE 25 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.426752E+00	2.671479E+01
90.00	1.545502E+00	3.511575E+01
95.00	1.595502E+00	3.940053E+01
98.00	1.738002E+00	5.470189E+01

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	15.53	15.53
1.916E+00 - 2.083E+00	61	61	53.51	53.51	18.28	99.84
2.083E+00 - 2.249E+00	0	61	0.00	53.51	24.51	24.51
2.249E+00 - 2.416E+00	18	79	15.79	69.30	24.12	1.55
2.416E+00 - 2.583E+00	17	96	14.91	84.21	17.43	0.01
2.583E+00 - 2.749E+00	12	108	10.53	94.74	9.25	0.82
2.749E+00 - 2.916E+00	3	111	2.63	97.37	3.60	0.10
2.916E+00 - 3.083E+00	3	114	2.63	100.00	1.28	2.30
G	0	114	0.00	100.00	15.53	15.53
H	0	114				
B	0	114				

TOTALS LESS H AND B 114

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

```
9.985E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+02
2.151E+02 XXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXX
6.602E+02 XXX
9.985E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 1.74105E+02
GEOMETRIC DEVIATION = 1.97662E+00
VARIANCE OF LOGS = 8.75708E-02

PERCENT TABLE FOR VARIABLE 27 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.479727E+00	3.018051E+02
90.00	2.674335E+00	4.724272E+02
95.00	2.766002E+00	5.834474E+02
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.47	3.47
1.250E+00 -	1.417E+00	7	7	6.14	6.14	4.74	1.08
1.417E+00 -	1.583E+00	14	21	12.28	18.42	8.60	3.39
1.583E+00 -	1.750E+00	16	37	14.04	32.46	13.18	0.60
1.750E+00 -	1.917E+00	13	50	11.40	43.86	17.07	0.97
1.917E+00 -	2.083E+00	15	65	13.16	57.02	18.67	0.72
2.083E+00 -	2.250E+00	7	72	6.14	63.16	17.26	6.10
2.250E+00 -	2.417E+00	20	92	17.54	80.70	13.48	3.16
2.417E+00 -	2.583E+00	14	106	12.28	92.98	8.89	2.93
2.583E+00 -	2.750E+00	7	113	6.14	99.12	4.96	0.84
2.750E+00 -	2.917E+00	1	114	0.88	100.00	3.69	1.96
G		0	114	0.00	100.00	3.47	3.47
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

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

```
2.154E+01 XXXXXX
3.162E+01 XXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXX
1.468E+02 XXXXXX
2.154E+02 XXXXXXXXXXXXXXXXXX
3.162E+02 XXXXXXXXXXX
4.642E+02 XXXXXX
6.813E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 1.01276E+02
GEOMETRIC DEVIATION = 2.52957E+00
VARIANCE OF LOGS = 1.62447E-01

PERCENT TABLE FOR VARIABLE 28 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	2.362502E+00	2.304105E+02	90.00	2.542860E+00	3.490276E+02
			95.00	2.638098E+00	4.346083E+02
			98.00	2.719527E+00	5.242359E+02

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.70	3.70
9.160E-01 -	1.083E+00	22	22	19.30	19.30	7.45	28.40
1.083E+00 -	1.249E+00	1	23	0.88	20.18	14.95	13.01
1.249E+00 -	1.416E+00	24	47	21.05	41.23	22.28	0.13
1.416E+00 -	1.583E+00	15	62	13.16	54.39	24.69	3.80
1.583E+00 -	1.749E+00	33	95	28.95	83.33	20.33	7.90
1.749E+00 -	1.916E+00	17	112	14.91	98.25	12.44	1.67
1.916E+00 -	2.083E+00	2	114	1.75	100.00	8.16	4.65
G		0	114	0.00	100.00	3.70	3.70
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 30 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXXXXXXXXXXXXXXX
1.466E+01 X
2.151E+01 XXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXX
9.985E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	1.00000E+02
GEOMETRIC MEAN	=	2.97577E+01
GEOMETRIC DEVIATION	=	2.00504E+00
VARIANCE OF LOGS	=	9.12782E-02

PERCENT TABLE FOR VARIABLE 30 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.701355E+00	5.027535E+01
90.00	1.823845E+00	6.665688E+01
95.00	1.879727E+00	7.581016E+01
98.00	1.913257E+00	8.189491E+01

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 32 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.07	1.07
1.916E+00 -	2.083E+00	4	4	3.51	3.51	3.19	0.21
2.083E+00 -	2.249E+00	8	12	7.02	10.53	8.55	0.03
2.249E+00 -	2.416E+00	17	29	14.91	25.44	16.72	0.00
2.416E+00 -	2.583E+00	29	58	25.44	50.88	23.90	1.09
2.583E+00 -	2.749E+00	15	73	13.16	64.04	24.96	3.97
2.749E+00 -	2.916E+00	18	91	15.79	79.82	19.05	0.06
2.916E+00 -	3.083E+00	19	110	16.67	96.49	16.57	0.36
G		4	114	3.51	100.00	1.07	8.01
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 32 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXXX
1.466E+02 XXXXXXX
2.151E+02 XXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXX
6.802E+02 XXXXXXXXXXXXXXXX
9.985E+02 XXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+02
MAXIMUM ANTILOG	=	1.00000E+03
GEOMETRIC MEAN	=	3.90343E+02
GEOMETRIC DEVIATION	=	1.94475E+00
VARIANCE OF LOGS	=	8.34419E-02

PERCENT TABLE FOR VARIABLE 32 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.865076E+00	7.329527E+02
90.00	3.017757E+00	1.041733E+03
95.00	3.067757E+00	1.168844E+03
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 34 (AA-AS-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		53	53	46.49	46.49		
L		43	96	37.72	84.21		
T		0	96	0.00	84.21	3.70	3.70
5.830E-01 -	7.497E-01	15	111	13.16	97.37	78.48	51.35
7.497E-01 -	9.163E-01	0	111	0.00	97.37	31.67	31.67
9.163E-01 -	1.083E+00	2	113	1.75	99.12	0.00	0.00
1.083E+00 -	1.250E+00	0	113	0.00	99.12	0.00	0.00
1.250E+00 -	1.416E+00	1	114	0.88	100.00	0.15	5.01
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 34 (AA-AS-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E+00 XXXXXXXXXXXX
 6.808E+00
 9.992E+00 XX
 1.467E+01
 2.153E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+00
MAXIMUM ANTILOG	=	2.00000E+01
GEOMETRIC MEAN	=	5.83265E+00
GEOMETRIC DEVIATION	=	1.46238E+00
VARIANCE OF LOGS	=	2.72450E-02

PERCENT TABLE FOR VARIABLE 34 (AA-AS-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	8.696673E-01	7.407426E+00

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 35 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.10	3.10
5.830E-01 -	7.497E-01	7	7	6.14	6.14	4.32	1.65
7.497E-01 -	9.163E-01	0	7	0.00	6.14	7.98	7.98
9.163E-01 -	1.083E+00	29	36	25.44	31.58	12.48	21.88
1.083E+00 -	1.250E+00	22	58	19.30	50.88	16.51	1.82
1.250E+00 -	1.416E+00	12	70	10.53	61.40	18.50	2.28
1.416E+00 -	1.583E+00	5	75	4.39	65.79	17.55	8.98
1.583E+00 -	1.750E+00	12	87	10.53	76.32	14.10	0.31
1.750E+00 -	1.916E+00	16	103	14.04	90.35	9.59	4.29
1.916E+00 -	2.083E+00	7	110	6.14	96.49	5.52	0.40
2.083E+00 -	2.250E+00	3	113	2.63	99.12	2.69	0.04
2.250E+00 -	2.416E+00	0	113	0.00	99.12	1.11	1.11
2.416E+00 -	2.583E+00	1	114	0.88	100.00	0.54	0.39
G		0	114	0.00	100.00	3.10	3.10
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 35 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXX
6.808E+00
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXX
3.160E+01 XXXX
4.638E+01 XXXXXXXXXX
6.808E+01 XXXXXXXXXXXXX
9.992E+01 XXXXXX
1.467E+02 XXX
2.153E+02
3.160E+02 X
```

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.728836E+00	5.355939E+0
90.00	1.912169E+00	8.169008E+01
95.00	2.042527E+00	1.102876E+02
98.00	2.178559E+00	1.508547E+02

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+00
MAXIMUM ANTILOG      = 3.00000E+02
GEOMETRIC MEAN       = 2.30994E+01
GEOMETRIC DEVIATION  = 2.54522E+00
VARIANCE OF LOGS     = 1.64613E-01
```

PERCENT TABLE FOR VARIABLE 35 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 36 (AA-CD-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	43	43	37.72	37.72		
	L	0	43	0.00	37.72		
	T	0	43	0.00	37.72	14.09	14.09
-1.084E+00	-9.173E-01	18	61	15.79	53.51	21.07	0.45
-9.173E-01	-7.507E-01	0	61	0.00	53.51	28.94	28.94
-7.507E-01	-5.840E-01	27	88	23.68	77.19	26.20	0.02
-5.840E-01	-4.173E-01	8	96	7.02	84.21	15.64	3.73
-4.173E-01	-2.507E-01	15	111	13.16	97.37	6.16	12.71
-2.507E-01	-8.400E-02	3	114	2.63	100.00	1.90	0.64
	G	0	114	0.00	100.00	0.00	0.00
	H	0	114				
	B	0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 36 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-02 XXXXXXXXXXXXXXX
 1.466E-01
 2.151E-01 XXXXXXXXXXXXXXXXXXXXXXXX
 3.157E-01 XXXXXXX
 4.634E-01 XXXXXXXXXXXX
 6.802E-01 XXX
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E-01
MAXIMUM ANTILOG	=	6.00000E-01
GEOMETRIC MEAN	=	2.17021E-01
GEOMETRIC DEVIATION	=	1.76226E+00
VARIANCE OF LOGS	=	6.05503E-02

PERCENT TABLE FOR VARIABLE 36 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	-6.148633E-01	2.427374E-01
90.00	-3.439985E-01	4.528991E-01
95.00	-2.806651E-01	5.240044E-01
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 38 (AA-SB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		106	106	92.98	92.98		
L		0	106	0.00	92.98		
T		0	106	0.00	92.98	1.40	1.40
-8.400E-02 -	8.267E-02	6	112	5.26	98.25	109.68	98.01
8.267E-02 -	2.493E-01	0	112	0.00	98.25	0.00	0.00
2.493E-01 -	4.160E-01	2	114	1.75	100.00	2.92	0.29
G		0	114	0.00	100.00	0.00	0.00
H		0	114				
B		0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 38 (AA-SB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-01 XXXXX
 1.466E+00
 2.151E+00 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E+00
MAXIMUM ANTILOG      = 2.00000E+00
GEOMETRIC MEAN       = 1.18921E+00
GEOMETRIC DEVIATION  = 1.37832E+00
VARIANCE OF LOGS     = 1.94184E-02
```

PERCENT TABLE FOR VARIABLE 38 (AA-SB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 3. Graphical Analysis of analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 39 (U-INST)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.93	0.93
-1.250E+00	- -1.083E+00	3	3	2.63	2.63	2.75	0.02
-1.083E+00	- -9.167E-01	12	15	10.53	13.16	7.48	2.74
-9.167E-01	- -7.500E-01	14	29	12.28	25.44	15.04	0.07
-7.500E-01	- -5.833E-01	20	49	17.54	42.98	22.42	0.26
-5.833E-01	- -4.167E-01	22	71	19.30	62.28	24.78	0.31
-4.167E-01	- -2.500E-01	24	95	21.05	83.33	20.30	0.67
-2.500E-01	- -8.333E-02	12	107	10.53	93.86	12.33	0.01
-8.333E-02	- 8.334E-02	6	113	5.26	99.12	5.55	0.04
8.334E-02	- 2.500E-01	1	114	0.88	100.00	2.41	0.82
	G	0	114	0.00	100.00	0.93	0.93
	H	0	114				
	B	0	114				

TOTALS LESS H AND B 114

HISTOGRAM FOR VARIABLE 39 (U-INST)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-02 XXX
1.000E-01 XXXXXXXXXXX
1.468E-01 XXXXXXXXXXXX
2.154E-01 XXXXXXXXXXXXXXXXXX
3.162E-01 XXXXXXXXXXXXXXXXXXX
4.642E-01 XXXXXXXXXXXXXXXXXXXXX
6.813E-01 XXXXXXXXXXX
1.000E+00 XXXXX
1.468E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 6.00000E-02
MAXIMUM ANTILOG = 1.60000E+00
GEOMETRIC MEAN = 2.96733E-01
GEOMETRIC DEVIATION = 1.99870E+00
VARIANCE OF LOGS = 9.04487E-02

PERCENT TABLE FOR VARIABLE 39 (U-INST) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	-3.159704E-01	4.830918E-01	95.00	-4.721981E-02	8.969747E-01
90.00	-1.444422E-01	7.170638E-01	98.00	4.778038E-02	1.116299E+00

Table 4. Correlation Analyses for analytical data for stream sediments of the Rattlesnake Further Planning Area (R4RE II), Coconino and Yavapai Counties, Arizona.

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -

		1 LATITUDE	2 LONGITUD	3 S-FE%	4 S-MG%	5 S-CA%	6 S-TI%	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1	LATITUDE	0.0446	-0.2083	-0.4323	-0.4226	-0.5269	-0.4684	-0.3535	**********	**********	**********
2	LONGITUD	114	0.0348	-0.3061	-0.1123	0.2539	0.0372	-0.3466	**********	**********	**********
3	S-FE%	113	113	6.2627	0.7837	0.5096	0.8006	0.8106	**********	**********	**********
4	S-MG%	111	111	111	2.5654	0.6047	0.6399	0.5872	**********	**********	**********
5	S-CA%	114	114	113	111	3.4853	0.4573	0.3604	**********	**********	**********
6	S-TI%	101	101	101	101	101	0.2715	0.7612	**********	**********	**********
7	S-MN	105	105	105	105	105	101	1332.8852	**********	**********	**********
8	S-AG	1	1	1	1	1	1	1	**********	**********	**********
9	S-AS	0	0	0	0	0	0	0	0	**********	**********
10	S-AU	0	0	0	0	0	0	0	0	0	**********
11	S-B	114	114	113	111	114	101	105	1	0	0
12	S-BA	114	114	113	111	114	101	105	1	0	0
13	S-BE	100	100	99	97	100	87	91	1	0	0
14	S-BI	0	0	0	0	0	0	0	0	0	0
15	S-CD	0	0	0	0	0	0	0	0	0	0
16	S-CO	114	114	113	111	114	101	105	1	0	0
17	S-CR	114	114	113	111	114	101	105	1	0	0
18	S-CU	114	114	113	111	114	101	105	1	0	0
19	S-LA	56	56	55	53	56	43	47	1	0	0
20	S-MO	2	2	2	2	2	1	2	0	0	0
21	S-NB	29	29	28	26	29	16	20	0	0	0
22	S-NI	114	114	113	111	114	101	105	1	0	0
23	S-PB	110	110	109	107	110	97	101	1	0	0
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	106	106	105	103	106	93	97	1	0	0
26	S-SN	0	0	0	0	0	0	0	0	0	0
27	S-SR	114	114	113	111	114	101	105	1	0	0
28	S-V	114	114	113	111	114	101	105	1	0	0
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	114	114	113	111	114	101	105	1	0	0
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	110	110	109	107	110	97	101	1	0	0
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	18	18	18	18	18	17	17	1	0	0
35	AA-ZN-P	114	114	113	111	114	101	105	1	0	0
36	AA-CD-P	71	71	70	68	71	63	66	1	0	0
37	AA-BI-P	1	1	1	1	1	1	1	0	0	0
38	AA-SB-P	8	8	8	8	8	8	8	1	0	0
39	U-INST	114	114	113	111	114	101	105	1	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 4. Correlation Analyses for analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1	LATITUDE	-0.1671	-0.5592	-0.1766	**********	**********	-0.2870	-0.2861	-0.2066	-0.2159	1.0000
2	LONGITUD	0.3642	0.0179	-0.1094	**********	**********	-0.4164	-0.3589	-0.2523	-0.1660	-1.0000
3	S-FE%	0.1091	0.6899	0.2841	**********	**********	0.9017	0.8646	0.7484	0.4438	1.0000
4	S-MG%	0.1916	0.6512	0.1623	**********	**********	0.7790	0.8079	0.6459	0.1661	1.0000
5	S-CA%	0.2221	0.6712	0.1758	**********	**********	0.4316	0.4378	0.4223	0.1155	-1.0000
6	S-TI%	0.3137	0.7175	0.4680	**********	**********	0.6703	0.7079	0.5267	0.3378	**********
7	S-MN	-0.0504	0.6398	0.3557	**********	**********	0.8257	0.8173	0.6258	0.4130	1.0000
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	53.4263	0.2969	0.2861	**********	**********	0.0472	0.0719	0.1257	0.0491	-1.0000
12	S-BA	114	406.6696	0.3117	**********	**********	0.6781	0.6394	0.5840	0.3934	-1.0000
13	S-BE	100	100	0.7300	**********	**********	0.2128	0.1416	0.2394	0.2970	-1.0000
14	S-BI	0	0	0	**********	**********	**********	**********	**********	**********	**********
15	S-CD	0	0	0	0	**********	**********	**********	**********	**********	**********
16	S-CO	114	114	100	0	0	34.3416	0.8838	0.8749	0.3282	1.0000
17	S-CR	114	114	100	0	0	114	523.7628	0.7394	0.3214	1.0000
18	S-CU	114	114	100	0	0	114	114	88.3207	0.2283	1.0000
19	S-LA	56	56	53	0	0	56	56	56	36.1796	**********
20	S-MO	2	2	2	0	0	2	2	2	2	10.6066
21	S-NB	29	29	27	0	0	29	29	29	29	1
22	S-NI	114	114	100	0	0	114	114	114	56	2
23	S-PB	110	110	98	0	0	110	110	110	56	2
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	106	106	98	0	0	106	106	106	56	2
26	S-SN	0	0	0	0	0	0	0	0	0	0
27	S-SR	114	114	100	0	0	114	114	114	56	2
28	S-V	114	114	100	0	0	114	114	114	56	2
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	114	114	100	0	0	114	114	114	56	2
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	110	110	96	0	0	110	110	110	55	2
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	18	18	17	0	0	18	18	18	16	1
35	AA-ZN-P	114	114	100	0	0	114	114	114	56	2
36	AA-CD-P	71	71	58	0	0	71	71	71	44	0
37	AA-BI-P	1	1	1	0	0	1	1	1	0	0
38	AA-SB-P	8	8	8	0	0	8	8	8	4	0
39	U-INST	114	114	100	0	0	114	114	114	56	2

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 4. Correlation Analyses for analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1	LATITUDE	0.1339	-0.3171	-0.3364	**********	-0.4015	**********	-0.4672	-0.4556	**********	-0.3666
2	LONGITUD	-0.2570	-0.3819	0.0442	**********	-0.3002	**********	-0.0152	-0.2456	**********	-0.1225
3	S-FE%	0.3177	0.9121	0.5055	**********	0.8841	**********	0.7153	0.8982	**********	0.6160
4	S-MG%	0.1240	0.8178	0.4643	**********	0.7126	**********	0.6098	0.6462	**********	0.5071
5	S-CA%	0.1917	0.4349	0.5266	**********	0.4455	**********	0.6098	0.5147	**********	0.2976
6	S-TI%	0.4008	0.6675	0.6119	**********	0.7428	**********	0.5148	0.7396	**********	0.5780
7	S-MN	0.4147	0.7823	0.4715	**********	0.8038	**********	0.5424	0.7958	**********	0.4887
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	0.3311	0.0497	0.4214	**********	0.0239	**********	0.0177	0.126.	**********	0.4716
12	S-BA	0.5985	0.6451	0.6778	**********	0.6705	**********	0.7283	0.7318	**********	0.5723
13	S-BE	0.0943	0.1896	0.4205	**********	0.1902	**********	0.1522	0.2540	**********	0.3380
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	0.4932	0.9328	0.5026	**********	0.8648	**********	0.7108	0.8316	**********	0.6087
17	S-CR	0.6827	0.9445	0.5711	**********	0.8523	**********	0.5975	0.8416	**********	0.5226
18	S-CU	0.3817	0.7864	0.4403	**********	0.7406	**********	0.6427	0.7044	**********	0.5328
19	S-LA	0.1944	0.3100	0.1509	**********	0.3164	**********	0.2870	0.4600	**********	0.1330
20	S-MO	**********	1.0000	**********	**********	1.0000	**********	-1.0000	**********	**********	1.0000
21	S-NB	13.4641	0.5671	0.6033	**********	0.3708	**********	0.3038	0.6501	**********	0.2951
22	S-NI	29	135.4902	0.5420	**********	0.9040	**********	0.6774	0.8721	**********	0.5792
23	S-PB	29	110	29.5677	**********	0.4921	**********	0.4064	0.6461	**********	0.5490
24	S-SB	0	0	0	**********	**********	**********	**********	**********	**********	**********
25	S-SC	29	106	105	0	13.9554	**********	0.7008	0.8845	**********	0.6016
26	S-SN	0	0	0	0	0	**********	**********	**********	**********	**********
27	S-SR	29	114	110	0	106	0	198.3494	0.7029	**********	0.3964
28	S-V	29	114	110	0	106	0	114	137.1477	**********	0.6054
29	S-W	0	0	0	0	0	0	0	0	**********	**********
30	S-Y	29	114	110	0	106	0	114	114	0	22.3051
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	28	110	106	0	102	0	110	110	0	110
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	7	18	18	0	18	0	18	18	0	18
35	AA-ZN-P	29	114	110	0	106	0	114	114	0	114
36	AA-CD-P	23	71	68	0	64	0	71	71	0	71
37	AA-BI-P	0	1	1	0	1	0	1	1	0	1
38	AA-SB-P	1	8	8	0	8	0	8	8	0	8
39	U-INST	29	114	110	0	106	0	114	114	0	114

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 4. Correlation Analyses for analytical data for stream sediments of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CON..

		31 S-ZN	32 S-ZR	33 S-TH	34 AA-AS-P	35 AA-ZN-P	36 AA-CD-P	37 AA-BI-P	38 AA-SB-P	39 U-INST
1	LATITUDE	**********	0.1483	**********	-0.3918	-0.3825	-0.1339	**********	-0.9008	-0.3249
2	LONGITUD	**********	0.1723	**********	0.4095	-0.2341	-0.2529	**********	0.2677	-0.2818
3	S-FE%	**********	-0.1528	**********	-0.0250	0.7075	0.2818	**********	0.6652	0.4684
4	S-MG%	**********	-0.1309	**********	-0.0388	0.5988	0.1917	**********	0.9237	0.3631
5	S-CA%	**********	-0.1042	**********	0.0479	0.3952	-0.0898	**********	0.8421	0.2025
6	S-TI%	**********	-0.0233	**********	-0.1815	0.6729	0.3965	**********	0.6990	0.5005
7	S-MN	**********	-0.1459	**********	-0.0287	0.7063	0.3096	**********	0.3250	0.5508
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	**********	0.4292	**********	-0.2856	-0.0087	-0.0501	**********	-0.2335	0.0590
12	S-BA	**********	-0.1194	**********	0.0330	0.6765	0.2650	**********	0.6028	0.5763
13	S-BE	**********	0.2761	**********	-0.0336	0.2859	0.2688	**********	0.0000	0.2751
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	**********	-0.1596	**********	-0.0044	0.7650	0.3189	**********	0.4140	0.4465
17	S-CR	**********	-0.1366	**********	-0.1174	0.5303	0.0580	**********	0.3919	0.3085
18	S-CU	**********	-0.0075	**********	0.0008	0.7226	0.2032	**********	0.5949	0.3233
19	S-LA	**********	-0.0561	**********	-0.1018	0.3155	-0.0852	**********	0.6963	0.1329
20	S-MO	**********	**********	**********	**********	**********	**********	**********	**********	-1.0000
21	S-NB	**********	0.3480	**********	**********	-0.0543	-0.3347	**********	**********	-0.0265
22	S-NI	**********	-0.1636	**********	0.0000	0.6383	0.2202	**********	0.7438	0.3845
23	S-PB	**********	0.0805	**********	-0.2076	0.3263	0.0241	**********	0.4796	0.3704
24	S-SB	**********	**********	**********	**********	**********	**********	**********	**********	**********
25	S-SC	**********	-0.1925	**********	0.2206	0.6606	0.2013	**********	0.5398	0.4328
26	S-SN	**********	**********	**********	**********	**********	**********	**********	**********	**********
27	S-SR	**********	-0.2933	**********	0.6024	0.7798	0.2779	**********	0.5222	0.4570
28	S-V	**********	-0.1238	**********	-0.0709	0.6141	0.0983	**********	0.8772	0.4282
29	S-W	**********	**********	**********	**********	**********	**********	**********	**********	**********
30	S-Y	**********	0.1263	**********	0.0126	0.4638	0.2940	**********	0.4364	0.4222
31	S-ZN	**********	**********	**********	**********	**********	**********	**********	**********	**********
32	S-ZR	0	298.8664	**********	-0.3457	-0.2623	-0.2000	**********	-0.3758	-0.2171
33	S-TH	0	0	**********	**********	**********	**********	**********	**********	**********
34	AA-AS-P	0	18	0	3.7595	0.0068	-0.0849	**********	**********	-0.3091
35	AA-ZN-P	0	110	0	18	41.2961	0.5475	**********	0.3566	0.6385
36	AA-CD-P	0	70	0	15	71	0.1433	**********	-0.9623	0.6255
37	AA-BI-P	0	1	0	0	1	0	**********	**********	**********
38	AA-SB-P	0	8	0	4	8	4	1	0.4629	0.0235
39	U-INST	0	110	0	18	114	71	1	8	0.2670

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day. The following qualifiers are used in reporting spectrographic data; --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.1)	Mg-%-s (.05)	Ca-%-S (.1)	Ti-%-s (.005)	Mn-ppm-s (20)	Ag-ppm-s (1)	As-ppm-s (500)	Au-ppm-s (20)	B-ppm-s (20)
RS201H	34 52 26	111 42 19	1.5	1.00	.5	>2.0	300	N	N	N	300
RS202H	34 52 14	111 42 54	2.0	.50	.5	.3	500	N	N	N	100
RS203H	34 52 8	111 43 4	.5	.20	.2	.3	150	N	N	N	70
RS204H	34 51 36	111 44 8	.2	.05	.2	>2.0	200	N	N	N	70
RS205H	34 51 39	111 44 7	2.0	.70	.2	2.0	300	N	N	N	700
RS206H	34 51 42	111 43 59	1.0	.05	.5	>2.0	200	N	N	N	200
RS207H	34 51 51	111 44 25	.5	.20	.5	1.5	200	N	N	N	150
RS208H	34 43 24	111 46 26	2.0	.50	2.0	2.0	500	N	N	N	200
RS209H	34 47 48	111 43 13	2.0	.50	.5	2.0	500	N	N	N	500
RS211H	34 47 50	111 43 14	1.0	.20	.2	1.5	200	N	N	N	150
RS212H	34 47 22	111 43 40	1.0	.70	1.0	2.0	500	N	N	N	700
RS213H	34 46 44	111 44 41	1.5	1.00	1.0	.7	500	N	N	N	100
RS214H	34 47 27	111 43 9	5.0	1.00	10.0	5.0	1,000	N	N	N	150
RS215H	34 47 43	111 42 44	1.5	1.00	.7	2.0	500	N	N	N	700
RS216H	34 47 45	111 42 55	2.0	.20	.5	1.5	300	N	N	N	300
RS217H	34 48 17	111 42 3	1.5	1.00	.5	1.5	300	N	N	N	700
RS218H	34 48 18	111 42 9	1.0	1.00	.2	1.0	200	N	N	N	300
RS219H	34 49 54	111 42 8	1.0	1.00	1.0	.5	300	N	N	N	100
RS221H	34 49 56	111 42 4	.3	.20	.5	1.5	300	N	N	N	500
RS222H	34 49 42	111 42 9	1.0	.20	.2	1.5	150	N	N	N	150
RS224H	34 48 26	111 41 59	1.0	.20	.5	2.0	150	N	N	N	200
RS225H	34 48 26	111 41 56	1.0	.20	.2	1.0	150	N	N	N	150
RS226H	34 46 13	111 39 52	5.0	5.00	10.0	1.0	2,000	N	N	N	70
RS227H	34 46 15	111 39 55	5.0	10.00	10.0	.7	2,000	N	N	N	200
RS234H	34 42 44	111 44 26	1.5	.70	5.0	.5	500	N	N	N	200
RS235H	34 42 40	111 44 53	5.0	1.00	10.0	2.0	2,000	N	N	N	500
RS236H	34 42 1	111 45 47	2.0	.50	2.0	1.5	500	N	N	N	100
RS237H	34 42 38	111 46 29	2.0	1.00	5.0	1.0	1,000	N	N	N	200
RS238H	34 42 16	111 46 10	1.5	.50	5.0	1.0	1,000	N	N	N	100
RS239H	34 41 46	111 45 20	2.0	1.00	5.0	1.0	500	N	N	N	70
RS240H	34 46 10	111 43 54	.5	.70	1.0	.3	300	N	N	N	20
RS243H	34 45 54	111 42 51	3.0	5.00	5.0	2.0	1,500	N	N	N	150
RS245H	34 51 13	111 44 20	1.0	.10	.5	>2.0	200	N	N	N	200
RS246H	34 51 16	111 44 20	2.0	.50	.5	>2.0	500	N	N	N	500
RS253H	34 50 17	111 42 9	1.0	1.00	10.0	.5	300	N	N	N	70
RS257H	34 51 30	111 40 16	1.0	1.50	.7	.5	500	N	N	N	200
RS258H	34 51 29	111 40 14	1.0	1.00	.7	.5	500	N	N	N	70
RS259H	34 49 27	111 42 11	2.0	.50	.2	2.0	200	N	N	N	300
RS261H	34 50 27	111 45 3	2.0	1.00	1.0	1.0	1,000	N	N	N	500
RS262H	34 50 23	111 44 57	1.0	.20	.2	2.0	150	N	N	N	150
RS263H	34 50 19	111 44 58	2.0	.50	.5	1.0	500	N	N	N	300
RS264H	34 50 31	111 45 18	2.0	1.00	.5	1.5	500	N	N	N	300
RS265H	34 44 47	111 45 38	2.0	1.00	5.0	2.0	500	N	N	N	50
RS267H	34 43 46	111 45 58	3.0	5.00	10.0	1.5	1,000	N	N	N	50
RS268H	34 47 1	111 38 24	2.0	1.00	1.0	2.0	500	N	N	N	100

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (50)	Be-ppm-s (2)	Bi-ppm-s (20)	Cd-ppm-s (50)	Co-ppm-s (10)	Cr-ppm-s (20)	Cu-ppm-s (10)	La-ppm-s (50)	Mo-ppm-s (10)	Nb-ppm-s (50)	Ni-ppm-s (10)
RS201H	500	N	N	N	10	500	20	N	N	N	70
RS202H	500	N	N	N	N	100	50	150	N	N	20
RS203H	1,500	N	N	N	N	100	10	N	N	N	10
RS204H	500	N	N	N	N	70	10	N	N	N	10
RS205H	5,000	N	N	N	N	1,000	15	100	N	N	70
RS206H	2,000	N	N	N	N	200	20	N	N	N	10
RS207H	10,000	N	N	N	N	100	20	N	N	N	10
RS208H	>10,000	N	N	N	N	150	20	700	N	N	10
RS209H	10,000	N	N	N	N	500	10	N	N	N	10
RS211H	1,000	N	N	N	N	150	10	N	N	N	10
RS212H	1,500	N	N	N	N	200	50	50	N	N	10
RS213H	>10,000	N	N	N	20	50	20	N	N	N	100
RS214H	>20,000	N	N	N	N	300	50	2,000	N	N	20
RS215H	5,000	N	N	N	N	500	10	50	N	N	50
RS216H	5,000	N	N	N	10	700	15	N	N	N	10
RS217H	1,500	N	N	N	10	1,500	10	50	N	N	70
RS218H	10,000	N	N	N	N	1,000	20	100	N	N	70
RS219H	500	N	N	N	10	500	10	N	N	N	100
RS221H	500	N	N	N	N	200	15	N	N	N	10
RS222H	2,000	N	N	N	N	500	5	N	N	N	10
RS224H	1,000	N	N	N	N	300	30	N	N	N	10
RS225H	2,000	N	N	N	N	700	100	N	N	N	10
RS226H	1,000	N	N	N	50	1,500	70	N	N	N	700
RS227H	1,000	N	N	N	70	2,000	150	N	N	N	700
RS234H	>10,000	N	N	N	N	200	10	70	N	N	50
RS235H	>10,000	N	N	N	10	100	30	500	N	<50	10
RS236H	>10,000	N	N	N	N	150	15	300	N	N	10
RS237H	>10,000	N	N	N	N	200	15	300	N	N	70
RS238H	>10,000	N	N	N	10	100	20	2,000	N	N	10
RS239H	>10,000	N	N	N	N	300	10	150	N	N	70
RS240H	2,000	N	N	N	10	150	150	50	N	N	70
RS243H	1,000	N	N	N	50	1,500	50	70	N	N	200
RS245H	1,500	N	N	N	N	500	10	N	N	N	10
RS246H	1,500	N	N	N	N	1,500	100	N	N	N	10
RS253H	300	N	N	N	10	200	70	50	N	N	30
RS257H	500	N	N	N	10	500	30	N	N	N	70
RS258H	500	N	N	N	10	150	50	N	N	N	70
RS259H	700	N	N	N	N	700	15	N	N	N	10
RS261H	>10,000	N	N	N	10	1,000	10	50	N	N	100
RS262H	10,000	N	N	N	N	200	50	N	N	N	10
RS263H	5,000	N	N	N	N	1,000	20	N	N	N	70
RS264H	>10,000	N	N	N	20	700	150	150	N	N	70
RS265H	>10,000	N	N	N	10	200	100	150	N	N	70
RS267H	>10,000	N	N	N	30	2,000	100	50	N	N	300
RS268H	700	N	N	N	10	500	100	150	N	<50	70

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (20)	Sb-ppm-s (200)	Sc-ppm-s (10)	Sn-ppm-s (20)	Sr-ppm-s (200)	V-ppm-s (20)	W-ppm-s (100)	Y-ppm-s (20)	Zn-ppm-s (500)	Zr-ppm-s (20)	Th-ppm-s (200)
RS201H	20	N	70	N	200	150	N	500	N	>2,000	N
RS202H	20	N	N	N	200	70	N	150	N	>2,000	N
RS203H	<20	N	N	N	200	50	N	150	N	>2,000	N
RS204H	700	N	150	N	300	150	N	700	N	>2,000	N
RS205H	100	N	100	N	700	200	N	1,500	N	>2,000	N
RS206H	70	N	100	N	200	200	N	1,000	N	>2,000	N
RS207H	1,000	N	30	N	200	100	N	500	N	>2,000	N
RS208H	300	N	20	N	5,000	200	N	500	N	>2,000	N
RS209H	150	N	150	N	1,000	200	N	1,000	N	>2,000	N
RS211H	20	N	70	N	200	150	N	700	N	>2,000	N
RS212H	20	N	70	N	200	150	N	700	N	>2,000	N
RS213H	N	N	N	N	500	100	N	150	N	>5,000	N
RS214H	1,000	N	N	N	10,000	500	N	700	N	>5,000	N
RS215H	200	N	70	N	200	150	N	700	N	>2,000	N
RS216H	50	N	150	N	200	200	N	700	N	>2,000	N
RS217H	50	N	100	N	200	150	N	700	N	>2,000	N
RS218H	20	N	100	N	500	200	N	700	N	>2,000	N
RS219H	20	N	30	N	200	70	N	300	N	>2,000	N
RS221H	70	N	150	N	200	100	N	700	N	>2,000	N
RS222H	20	N	150	N	500	150	N	1,000	N	>2,000	N
RS224H	100	N	150	N	500	200	N	1,000	N	>2,000	N
RS225H	20	N	50	N	N	100	N	500	N	>2,000	N
RS226H	700	N	30	N	1,500	200	N	200	N	>2,000	N
RS227H	100	N	50	N	200	300	N	70	N	>2,000	N
RS234H	20	N	N	N	2,000	100	N	50	N	>2,000	N
RS235H	50	N	N	N	1,500	200	N	100	N	>2,000	N
RS236H	20	N	N	N	2,000	100	N	100	N	>2,000	N
RS237H	70	N	N	N	500	150	N	100	N	>2,000	N
RS238H	200	N	N	N	1,500	100	N	200	N	>2,000	500
RS239H	<20	N	N	N	1,000	100	N	70	N	>2,000	N
RS240H	N	N	N	N	N	50	N	70	N	>2,000	N
RS243H	50	N	50	200	200	300	N	200	N	>2,000	N
RS245H	100	N	150	N	1,500	200	N	1,000	N	>2,000	N
RS246H	150	N	150	N	500	300	N	5,000	N	>2,000	N
RS253H	N	N	20	N	500	100	N	500	N	>2,000	N
RS257H	N	N	30	N	200	150	N	500	N	>2,000	N
RS258H	N	N	10	N	200	70	N	150	N	>2,000	N
RS259H	100	N	70	N	200	150	N	700	N	>2,000	N
RS261H	50	N	70	N	200	150	N	700	N	>2,000	N
RS262H	20	N	150	N	500	150	N	1,000	N	>2,000	N
RS263H	150	N	150	N	500	200	N	1,000	N	>2,000	N
RS264H	3,000	N	70	N	500	200	N	700	N	>2,000	N
RS265H	200	N	50	N	5,000	150	N	500	N	>2,000	N
RS267H	20	N	30	N	2,000	200	N	100	N	>2,000	N
RS268H	20	N	30	N	200	150	N	200	N	>2,000	N

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Latitude	Longitude	Fe-%-s (.1)	Mg-%-s (.05)	Ca-%-S (1)	Ti-%-s (.005)	Mn-ppm-s (20)	Ag-ppm-s (1)	As-ppm-s (500)	Au-ppm-s (20)	B-ppm-s (20)
RS269H	34 47 22	111 38 28	1.5	1.00	1.0	1.5	500	N	N	N	150
RS270H	34 47 21	111 38 25	1.5	2.00	1.0	2.0	700	N	N	N	200
RS271H	34 45 43	111 44 3	1.0	1.00	.7	.2	500	N	N	N	50
RS273H	34 45 33	111 43 39	2.0	2.00	1.0	2.0	2,000	N	N	N	300
RS274H	34 49 3	111 42 4	.5	.10	.2	2.0	150	N	N	N	300
RS280H	34 44 49	111 42 18	2.0	2.00	1.0	.7	1,000	N	N	N	20
RS281H	34 44 11	111 42 56	5.0	5.00	5.0	.7	1,500	N	N	N	70
RS282H	34 44 12	111 42 48	1.5	2.00	1.5	.7	1,000	N	N	N	20
RS286H	34 49 51	111 40 36	1.0	.70	.2	1.0	300	N	N	N	500
RS287H	34 49 53	111 40 37	.5	.50	.5	.2	200	N	N	N	<20
RS288H	34 49 38	111 40 37	1.0	.50	.2	1.0	200	N	N	N	700
RS293H	34 47 36	111 40 50	1.0	1.00	1.0	.7	500	N	N	N	150
RS294H	34 46 58	111 40 54	1.0	.70	.7	.1	150	N	N	N	20
RS301H	34 46 9	111 45 16	1.0	.50	.2	1.0	200	N	N	N	150
RS302H	34 48 45	111 45 50	1.0	.50	.2	1.0	200	N	N	N	200
RS303H	34 49 13	111 45 16	2.0	.50	.5	1.0	300	N	N	N	200
RS311H	34 49 37	111 44 44	.5	.10	.2	.2	150	N	N	N	100
RS318H	34 46 15	111 39 48	5.0	20.00	10.0	.5	1,000	N	N	N	50
RS319H	34 46 17	111 39 52	1.0	1.00	1.0	.5	300	N	N	N	70
RS321H	34 47 27	111 39 10	1.0	1.00	1.0	.5	500	N	N	N	70
RS322H	34 47 29	111 39 11	.5	.70	.5	.1	200	N	N	N	20
RS323H	34 47 33	111 39 10	.7	1.00	.5	.1	200	N	N	N	20
RS325H	34 48 35	111 45 44	2.0	1.00	.5	1.5	300	N	N	N	700

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (50)	Be-ppm-s (2)	Bi-ppm-s (20)	Cd-ppm-s (50)	Co-ppm-s (10)	Cr-ppm-s (20)	Cu-ppm-s (10)	La-ppm-s (50)	Mo-ppm-s (10)	Nb-ppm-s (50)	Ni-ppm-s (10)
RS269H	500	N	N	N	15	500	150	70	N	N	100
RS270H	1,000	N	N	N	15	700	200	150	N	50	70
RS271H	>10,000	N	N	N	15	200	150	N	N	N	100
RS273H	>10,000	N	N	N	20	700	150	N	N	N	150
RS274H	300	N	N	N	N	500	10	N	N	N	10
RS280H	700	N	N	N	20	500	50	50	N	N	150
RS281H	1,500	N	N	N	30	1,000	150	N	N	N	300
RS282H	5,000	N	N	N	20	700	100	70	N	N	150
RS286H	1,500	N	N	N	N	500	15	N	N	N	70
RS287H	300	N	N	N	N	100	<10	N	N	N	50
RS288H	1,000	N	N	N	N	500	10	N	N	N	50
RS293H	500	N	N	N	15	500	15	N	N	N	100
RS294H	300	N	N	N	10	100	<10	N	N	N	70
RS301H	300	N	N	N	N	500	10	200	N	N	50
RS302H	>10,000	N	N	N	10	300	15	N	N	N	10
RS303H	>10,000	N	N	N	N	500	15	N	N	N	10
RS311H	1,000	N	N	N	N	150	<10	N	N	N	10
RS318H	1,500	N	N	N	70	3,000	100	N	N	N	700
RS319H	1,000	N	N	N	15	500	10	N	N	N	100
RS321H	700	N	N	N	15	150	10	70	N	N	70
RS322H	500	N	N	N	N	150	<10	N	N	N	30
RS323H	300	N	N	N	10	300	10	N	N	N	70
RS325H	>10,000	N	N	N	10	300	15	N	N	N	70

Table 5. Analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	Pb-ppm-s (20)	Sb-ppm-s (200)	Sc-ppm-s (10)	Sn-ppm-s (20)	Sr-ppm-s (200)	V-ppm-s (20)	W-ppm-s (100)	Y-ppm-s (20)	Zn-ppm-s (500)	Zr-ppm-s (20)	Th-ppm-s (200)
RS269H	N	N	30	N	200	200	N	300	N	>2,000	N
RS270H	N	N	30	N	500	200	N	300	N	>2,000	<200
RS271H	N	N	10	N	5,000	100	N	70	N	>2,000	N
RS273H	100	N	30	N	2,000	200	N	200	N	>2,000	N
RS274H	70	N	100	N	500	150	N	1,500	N	>2,000	N
RS280H	N	N	10	N	200	200	N	70	N	>2,000	N
RS281H	20	N	10	N	200	200	N	70	N	>2,000	N
RS282H	N	N	30	N	200	150	N	150	N	>2,000	N
RS286H	150	N	150	N	500	200	N	700	N	>2,000	N
RS287H	N	N	10	N	200	50	N	20	N	>2,000	N
RS288H	50	N	50	N	200	100	N	500	N	>2,000	N
RS293H	N	N	50	N	200	100	N	500	N	>2,000	N
RS294H	N	N	N	N	200	50	N	50	N	>2,000	N
RS301H	70	N	100	N	500	150	N	1,500	N	>2,000	N
RS302H	N	N	50	N	500	100	N	500	N	>2,000	N
RS303H	100	N	50	N	2,000	200	N	500	N	>2,000	N
RS311H	N	N	10	N	200	70	N	150	N	>2,000	N
RS318H	150	N	30	N	500	200	N	70	N	>2,000	N
RS319H	N	N	30	N	200	100	N	70	N	>2,000	N
RS321H	N	N	10	N	200	100	N	100	N	>2,000	N
RS322H	N	N	N	N	200	50	N	50	N	>2,000	N
RS323H	N	N	20	N	N	70	N	50	N	>2,000	N
RS325H	20	N	30	N	200	100	N	500	N	>2,000	N

Table 6. Fisher-t statistics on analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizo

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

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	LATITUDE	0	0	0	0	0	0	68	0	1.5402808	1.5425004	1
2	LONGITUD	0	0	0	0	0	0	68	0	2.0478199	2.0483436	2
3	S-FE%	0	0	0	0	0	0	68	0	-0.6989700	0.6989700	3
4	S-MG%	0	0	0	0	0	0	68	0	-1.3010300	1.3010300	4
5	S-CA%	0	0	0	0	0	0	68	0	-0.6989700	1.0000000	5
6	S-TI%	0	0	0	5	0	0	63	0	-1.0000000	0.6989700	6
7	S-MN	0	0	0	0	0	0	68	0	2.1760913	3.3010300	7
8	S-AG	68	0	0	0	0	0	0	0			8
9	S-AS	68	0	0	0	0	0	0	0			9
10	S-AU	68	0	0	0	0	0	0	0			10
11	S-B	0	0	1	0	0	0	67	0	1.3010300	2.8450980	11
12	S-BA	0	0	0	18	0	0	50	0	2.4771213	4.0000001	12
13	S-BE	68	0	0	0	0	0	0	0			13
14	S-BI	68	0	0	0	0	0	0	0			14
15	S-CD	68	0	0	0	0	0	0	0			15
16	S-CO	34	0	0	0	0	0	34	0	1.0000000	1.8450980	16
17	S-CR	0	0	0	0	0	0	68	0	1.6989700	3.4771213	17
18	S-CU	0	0	4	0	0	0	64	0	1.0000000	2.3010300	18
19	S-LA	40	0	0	0	0	0	28	0	1.6989700	3.3010300	19
20	S-MO	68	0	0	0	0	0	0	0			20
21	S-NB	65	0	2	0	0	0	1	0	1.6989700	1.6989700	21
22	S-NI	0	0	0	0	0	0	68	0	1.0000000	2.8450980	22
23	S-PB	19	0	2	0	0	0	47	0	1.3010300	3.4771213	23
24	S-SB	68	0	0	0	0	0	0	0			24
25	S-SC	13	0	0	0	0	0	55	0	1.0000000	2.1760913	25
26	S-SN	67	0	0	0	0	0	1	0	2.3010300	2.3010300	26
27	S-SR	3	0	0	0	0	0	65	0	2.3010300	4.0000001	27
28	S-V	0	0	0	0	0	0	68	0	1.6989700	2.6989700	28
29	S-W	68	0	0	0	0	0	0	0			29
30	S-Y	0	0	0	0	0	0	68	0	1.3010300	3.6989700	30
31	S-ZN	68	0	0	0	0	0	0	0			31
32	S-ZR	0	0	0	68	0	0	0	0			32
33	S-TH	66	0	1	0	0	0	1	0	2.6989700	2.6989700	33
34	AA-AS-P	0	0	0	0	68	0	0	0			34
35	AA-ZN-P	0	0	0	0	68	0	0	0			35
36	AA-CD-P	0	0	0	0	68	0	0	0			36
37	AA-BI-P	0	0	0	0	68	0	0	0			37
38	AA-SB-P	0	0	0	0	68	0	0	0			38
39	U-INST	0	0	0	0	68	0	0	0			39

Table 6. Fisher-K statistics on analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	LATITUDE	1.5415458	5.8651805D-04	3.4400342D-07	-7.8298829D-11	-0.3880709	-6.8137202D-14	-0.5757829	1
2	LONGITUD	2.0481095	1.4270256D-04	2.0364022D-08	-9.7292053D-13	-0.3347974	-3.3764178D-16	-0.8141962	2
3	S-FE%	0.1318896	0.2897481	0.0839540	-0.0034926	-0.1435786	0.0037337	0.5297380	3
4	S-MG%	-0.1531378	0.4821302	0.2324495	0.0188135	0.1678713	0.0648547	1.2002840	4
5	S-CA%	-0.0647735	0.5439532	0.2958851	0.1134109	0.7046448	-0.0453069	-0.5175098	5
6	S-TI%	-0.0452663	0.3639977	0.1324943	-0.0460048	-0.9539089	0.0118632	0.6757828	6
7	S-MN	2.6092408	0.3218524	0.1035890	0.0174542	0.5235158	-0.0056717	-0.5285516	7
8	S-AG								8
9	S-AS								9
10	S-AU								10
11	S-B	2.1695756	0.4251147	0.1807225	-0.0264292	-0.3440061	-0.0111372	-0.3409989	11
12	S-BA	3.0668104	0.4396830	0.1933212	0.0595515	0.7006052	-0.0094403	-0.2525968	12
13	S-BE								13
14	S-BI								14
15	S-CD								15
16	S-CO	1.1942375	0.2592047	0.0671871	0.0236760	1.3595015	0.0042675	0.9453811	16
17	S-CR	2.5603900	0.3976508	0.1581262	0.0045606	0.0725302	-0.0158047	-0.6320882	17
18	S-CU	1.4542087	0.4327788	0.1872975	0.0445816	0.5499941	-0.0422149	-1.2033762	18
19	S-LA	2.1169714	0.4627569	0.2141439	0.1322699	1.3347579	0.0601017	1.3106147	19
20	S-MO								20
21	S-NB	1.6989700							21
22	S-NI	1.6092185	0.5301383	0.2810467	0.0465798	0.3126294	-0.0484826	-0.6138026	22
23	S-PB	1.8800584	0.5433540	0.2952335	0.1432931	0.8932573	0.0509841	0.5849293	23
24	S-SB								24
25	S-SC	1.6827294	0.3780450	0.1429181	-0.0185425	-0.3431933	-0.0167136	-0.8182709	25
26	S-SN	2.3010300							26
27	S-SR	2.6530019	0.4436619	0.1968359	0.1048132	1.2002167	0.0254688	0.6573535	27
28	S-V	2.1347920	0.2094490	0.0438689	-0.0027226	-0.2963065	1.5343900D-04	0.0797301	28
29	S-W								29
30	S-Y	2.4772340	0.4896110	0.2397190	-0.0252601	-0.2152192	-0.0382794	-0.6661312	30
31	S-ZN								31
32	S-ZR								32
33	S-TH	2.6989700							33
34	AA-AS-P								34
35	AA-ZN-P								35
36	AA-CD-P								36
37	AA-BI-P								37
38	AA-SB-P								38
39	U-INST								39

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

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizo

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

FREQUENCY TABLE FOR VARIABLE 3 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.08	0.08
-7.500E-01	-5.833E-01	1	1	1.47	1.47	0.38	1.00
-5.833E-01	-4.167E-01	1	2	1.47	2.94	1.52	0.18
-4.167E-01	-2.500E-01	7	9	10.29	13.24	4.39	1.55
-2.500E-01	-8.333E-02	1	10	1.47	14.71	9.18	7.29
-8.333E-02	8.333E-02	22	32	32.35	47.06	13.92	4.70
8.333E-02	2.500E-01	9	41	13.24	60.29	15.28	2.58
2.500E-01	4.167E-01	19	60	27.94	88.24	12.17	3.84
4.167E-01	5.833E-01	2	62	2.94	91.18	7.02	3.59
5.833E-01	7.500E-01	6	68	8.82	100.00	4.05	0.93
G		0	68	0.00	100.00	0.08	0.08
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
2.154E-01 X
3.162E-01 X
4.642E-01 XXXXXXXXXX
6.813E-01 X
1.000E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXX
4.642E+00 XXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E-01
MAXIMUM ANTILOG	=	5.00000E+00
GEOMETRIC MEAN	=	1.35484E+00
GEOMETRIC DEVIATION	=	1.94871E+00
VARIANCE OF LOGS	=	8.39540E-02

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	3.377215E-01	2.176314E+00
90.00	5.166692E-01	3.286012E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.30	0.30
-1.417E+00	-1.250E+00	2	2	2.94	2.94	0.48	4.82
-1.250E+00	-1.084E+00	0	2	0.00	2.94	1.05	1.05
-1.084E+00	-9.170E-01	3	5	4.41	7.35	2.02	0.47
-9.170E-01	-7.503E-01	0	5	0.00	7.35	3.48	3.48
-7.503E-01	-5.837E-01	9	14	13.24	20.59	5.32	2.55
-5.837E-01	-4.170E-01	0	14	0.00	20.59	7.22	7.22
-4.170E-01	-2.503E-01	13	27	19.12	39.71	8.71	2.12
-2.503E-01	-8.366E-02	7	34	10.29	50.00	9.33	0.58
-8.366E-02	8.300E-02	23	57	33.82	83.82	8.88	22.46
8.300E-02	2.497E-01	1	58	1.47	85.29	7.51	5.64
2.497E-01	4.163E-01	4	62	5.88	91.18	5.64	0.48
4.163E-01	5.830E-01	0	62	0.00	91.18	3.77	3.77
5.830E-01	7.497E-01	4	66	5.88	97.06	2.23	1.40
7.497E-01	9.163E-01	0	66	0.00	97.06	1.18	1.18
9.163E-01	1.083E+00	1	67	1.47	98.53	0.55	0.37
1.083E+00	1.250E+00	0	67	0.00	98.53	0.23	0.23
1.250E+00	1.416E+00	1	68	1.47	100.00	0.12	6.25
	G	0	68	0.00	100.00	0.30	0.30
	H	0	68				
	B	0	68				

TOTALS LESS H AND B 68

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

```
4.638E-02 XXX
6.808E-02
9.992E-02 XXXX
1.467E-01
2.153E-01 XXXXXXXXXXXX
3.160E-01
4.638E-01 XXXXXXXXXXXXXXXXXX
6.808E-01 XXXXXXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00 X
2.153E+00 XXXXXX
3.160E+00
4.638E+00 XXXXXX
6.808E+00
9.992E+00 X
1.467E+01
2.153E+01 X
```

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	3.952465E-02	1.095279E+00
90.00	3.830036E-01	2.415481E+00
95.00	6.330041E-01	4.295405E+00
98.00	9.630048E-01	9.183428E+00

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-02
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 7.02849E-01
GEOMETRIC DEVIATION = 3.03480E+00
VARIANCE OF LOGS = 2.32450E-01

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	7.06	7.06
-7.500E-01	-5.833E-01	16	16	23.53	23.53	4.51	29.27
-5.833E-01	-4.167E-01	0	16	0.00	23.53	6.03	6.03
-4.167E-01	-2.500E-01	17	33	25.00	48.53	7.34	12.73
-2.500E-01	-8.333E-02	5	38	7.35	55.88	8.14	1.21
-8.333E-02	8.333E-02	13	51	19.12	75.00	8.22	2.78
8.333E-02	2.500E-01	1	52	1.47	76.47	7.57	5.70
2.500E-01	4.167E-01	2	54	2.94	79.41	6.35	2.98
4.167E-01	5.833E-01	0	54	0.00	79.41	4.85	4.85
5.833E-01	7.500E-01	7	61	10.29	89.71	3.38	3.89
7.500E-01	9.167E-01	0	61	0.00	89.71	2.14	2.14
9.167E-01	1.083E+00	7	68	10.29	100.00	2.42	8.67
G		0	68	0.00	100.00	7.06	7.06
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
 2.154E-01 XXXXXXXXXXXXXXXXXXXXXXX
 3.162E-01
 4.642E-01 XXXXXXXXXXXXXXXXXXXXXXXX
 6.813E-01 XXXXXXX
 1.000E+00 XXXXXXXXXXXXXXXXXX
 1.468E+00 X
 2.154E+00 XXX
 3.162E+00
 4.642E+00 XXXXXXXXXX
 6.813E+00
 1.000E+01 XXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 2.00000E-01
MAXIMUM ANTILOG      = 1.00000E+01
GEOMETRIC MEAN       = 8.61443E-01
GEOMETRIC DEVIATION  = 3.49907E+00
VARIANCE OF LOGS     = 2.95885E-01
```

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	8.333500E-02	1.211532E+00	95.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35	98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.11	0.11
-1.084E+00	-9.173E-01	3	3	4.41	4.41	0.33	21.23
-9.173E-01	-7.507E-01	0	3	0.00	4.41	1.03	1.03
-7.507E-01	-5.840E-01	3	6	4.41	8.82	2.57	0.07
-5.840E-01	-4.173E-01	3	9	4.41	13.24	5.20	0.93
-4.173E-01	-2.507E-01	8	17	11.76	25.00	8.55	0.04
-2.507E-01	-8.400E-02	6	23	8.82	33.82	11.42	2.57
-8.400E-02	8.267E-02	13	36	19.12	52.94	12.37	0.03
8.267E-02	2.493E-01	11	47	16.18	69.12	10.88	0.00
2.493E-01	4.160E-01	15	62	22.06	91.18	7.77	6.72
4.160E-01	5.827E-01	0	62	0.00	91.18	4.51	4.51
5.827E-01	7.493E-01	1	63	1.47	92.65	3.26	1.57
	G	5	68	7.35	100.00	0.11	215.15
	H	0	68				
	B	0	68				

TOTALS LESS H AND B 68

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

```
9.985E-02 XXXX
1.466E-01
2.151E-01 XXXX
3.157E-01 XXXX
4.634E-01 XXXXXXXXXXX
6.802E-01 XXXXXXXXX
9.985E-01 XXXXXXXXXXXXXXXXXX
1.466E+00 XXXXXXXXXXXXXXXX
2.151E+00 XXXXXXXXXXXXXXXXXXXXX
3.157E+00
4.635E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E-01
MAXIMUM ANTILOG	=	5.00000E+00
GEOMETRIC MEAN	=	9.01019E-01
GEOMETRIC DEVIATION	=	2.31205E+00
VARIANCE OF LOGS	=	1.32494E-01

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	2.937805E-01	1.966892E+00	95.00	1.000000E+35	1.000000E+35
90.00	4.071141E-01	2.553372E+00	98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T	-	0	0	0.00	0.00	3.47	3.47
2.083E+00 -	2.250E+00	8	8	11.76	11.76	5.50	1.13
2.250E+00 -	2.416E+00	13	21	19.12	30.88	9.69	1.13
2.416E+00 -	2.583E+00	12	33	17.65	48.53	13.13	0.10
2.583E+00 -	2.750E+00	20	53	29.41	77.94	13.68	2.92
2.750E+00 -	2.916E+00	1	54	1.47	79.41	10.97	9.06
2.916E+00 -	3.083E+00	8	62	11.76	91.18	6.77	0.23
3.083E+00 -	3.250E+00	2	64	2.94	94.12	3.21	0.46
3.250E+00 -	3.416E+00	4	68	5.88	100.00	1.58	3.68
G		0	68	0.00	100.00	3.47	3.47
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
1.467E+02 XXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+02 X
9.992E+02 XXXXXXXXXXX
1.467E+03 XXX
2.153E+03 XXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.50000E+02
MAXIMUM ANTILOG      = 2.00000E+03
GEOMETRIC MEAN       = 4.06669E+02
GEOMETRIC DEVIATION  = 2.09823E+00
VARIANCE OF LOGS     = 1.03589E-01
```

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.733001E+00	5.407559E+02
90.00	3.066335E+00	1.165025E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		1	1	1.47	1.47		
T		0	1	0.00	1.47	1.26	1.26
1.250E+00 -	1.417E+00	6	7	8.82	10.29	1.76	10.23
1.417E+00 -	1.583E+00	0	7	0.00	10.29	3.35	3.35
1.583E+00 -	1.750E+00	4	11	5.88	16.18	5.52	0.42
1.750E+00 -	1.917E+00	9	20	13.24	29.41	7.86	0.16
1.917E+00 -	2.083E+00	7	27	10.29	39.71	9.69	0.75
2.083E+00 -	2.250E+00	10	37	14.71	54.41	10.33	0.01
2.250E+00 -	2.417E+00	11	48	16.18	70.59	9.53	0.23
2.417E+00 -	2.583E+00	8	56	11.76	82.35	7.60	0.02
2.583E+00 -	2.750E+00	6	62	8.82	91.18	5.24	0.11
2.750E+00 -	2.917E+00	6	68	8.82	100.00	5.87	0.00
G		0	68	0.00	100.00	0.00	0.00
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
2.154E+01 XXXXXXXXX
3.162E+01
4.642E+01 XXXXXX
6.813E+01 XXXXXXXXXXXX
1.000E+02 XXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXX
2.154E+02 XXXXXXXXXXXXXXX
3.162E+02 XXXXXXXXXXX
4.642E+02 XXXXXXXXX
6.813E+02 XXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 1.47766E+02
GEOMETRIC DEVIATION = 2.66142E+00
VARIANCE OF LOGS = 1.80722E-01

PERCENT TABLE FOR VARIABLE 11 (S-B .) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	2.479169E+00	3.014180E+02			
90.00	2.727781E+00	5.342945E+02	98.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35			

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T	-	0	0	0.00	0.00	3.78	3.78
2.416E+00	-	2.583E+00	6	6	8.82	8.82	2.82	3.59
2.583E+00	-	2.749E+00	10	16	14.71	23.53	4.12	8.40
2.749E+00	-	2.916E+00	4	20	5.88	29.41	5.52	0.42
2.916E+00	-	3.083E+00	9	29	13.24	42.65	6.79	0.72
3.083E+00	-	3.249E+00	8	37	11.76	54.41	7.67	0.01
3.249E+00	-	3.416E+00	4	41	5.88	60.29	7.95	1.96
3.416E+00	-	3.583E+00	0	41	0.00	60.29	7.56	7.56
3.583E+00	-	3.749E+00	5	46	7.35	67.65	6.60	0.39
3.749E+00	-	3.916E+00	0	46	0.00	67.65	5.28	5.28
3.916E+00	-	4.083E+00	4	50	5.88	73.53	9.91	3.52
	G		18	68	26.47	100.00	3.78	53.46
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

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

```
 3.157E+02 XXXXXXXXX
 4.634E+02 XXXXXXXXXXXXXXX
 6.802E+02 XXXXXX
 9.985E+02 XXXXXXXXXXXXX
 1.466E+03 XXXXXXXXXXXX
 2.151E+03 XXXXXX
 3.157E+03
 4.634E+03 XXXXXXX
 6.803E+03
 9.985E+03 XXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 3.00000E+02
MAXIMUM ANTILOG      = 1.00000E+04
GEOMETRIC MEAN       = 1.16630E+03
GEOMETRIC DEVIATION  = 2.75222E+00
VARIANCE OF LOGS     = 1.93321E-01
```

PERCENT TABLE FOR VARIABLE 12 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	1.000000E+35	1.000000E+35	98.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35			
95.00	1.000000E+35	1.000000E+35			

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		34	34	50.00	50.00		
L		0	34	0.00	50.00		
T	-	0	34	0.00	50.00	12.63	12.63
9.160E-01 -	1.083E+00	17	51	25.00	75.00	18.90	0.19
1.083E+00 -	1.249E+00	6	57	8.82	83.82	20.26	10.03
1.249E+00 -	1.416E+00	5	62	7.35	91.18	11.79	3.91
1.416E+00 -	1.583E+00	2	64	2.94	94.12	3.72	0.80
1.583E+00 -	1.749E+00	2	66	2.94	97.06	0.64	2.93
1.749E+00 -	1.916E+00	2	68	2.94	100.00	0.06	60.97
G		0	68	0.00	100.00	0.00	0.00
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXX
2.151E+01 XXXXXXX
3.157E+01 XXX
4.634E+01 XXX
6.802E+01 XXX
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+01
MAXIMUM ANTILOG      =  7.00000E+01
GEOMETRIC MEAN       =  1.56400E+01
GEOMETRIC DEVIATION  =  1.81637E+00
VARIANCE OF LOGS     =  6.71871E-02
```

PERCENT TABLE FOR VARIABLE 16 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.082667E+00	1.209670E+01
90.00	1.389334E+00	2.450949E+01
95.00	1.632668E+00	4.292083E+01
98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00	0.48	0.48
1.583E+00	-	1.750E+00	1	1	1.47	1.47	0.93	0.00
1.750E+00	-	1.916E+00	1	2	1.47	2.94	2.17	0.63
1.916E+00	-	2.083E+00	7	9	10.29	13.24	4.24	1.80
2.083E+00	-	2.250E+00	8	17	11.76	25.00	6.96	0.16
2.250E+00	-	2.416E+00	9	26	13.24	38.24	9.61	0.04
2.416E+00	-	2.583E+00	6	32	8.82	47.06	11.16	2.38
2.583E+00	-	2.750E+00	17	49	25.00	72.06	10.90	3.41
2.750E+00	-	2.916E+00	7	56	10.29	82.35	8.95	0.43
2.916E+00	-	3.083E+00	5	61	7.35	89.71	6.19	0.23
3.083E+00	-	3.250E+00	4	65	5.88	95.59	3.59	0.05
3.250E+00	-	3.416E+00	2	67	2.94	98.53	1.76	0.03
3.416E+00	-	3.583E+00	1	68	1.47	100.00	1.07	0.00
	G		0	68	0.00	100.00	0.48	0.48
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

HISTOGRAM FOR VARIABLE 17 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 X
6.808E+01 X
9.992E+01 XXXXXXXXXX
1.467E+02 XXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXX
3.160E+02 XXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+02 XXXXXXXXXX
9.992E+02 XXXXXXX
1.467E+03 XXXXXX
2.153E+03 XXX
3.160E+03 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+01
MAXIMUM ANTILOG	=	3.00000E+03
GEOMETRIC MEAN	=	3.63404E+02
GEOMETRIC DEVIATION	=	2.49833E+00
VARIANCE OF LOGS	=	1.58125E-01

PERCENT TABLE FOR VARIABLE 17 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	2.797288E+00	6.270298E+02	90.00	3.091336E+00	1.234060E+03
			95.00	3.233003E+00	1.710028E+03
			98.00	3.386337E+00	2.434092E+03

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		4	4	5.88	5.88		
T		0	4	0.00	5.88	8.08	8.08
9.160E-01 -	1.083E+00	17	21	25.00	30.88	6.40	17.54
1.083E+00 -	1.249E+00	12	33	17.65	48.53	8.66	1.28
1.249E+00 -	1.416E+00	8	41	11.76	60.29	10.13	0.45
1.416E+00 -	1.583E+00	3	44	4.41	64.71	10.23	5.11
1.583E+00 -	1.749E+00	7	51	10.29	75.00	8.93	0.42
1.749E+00 -	1.916E+00	2	53	2.94	77.94	6.73	3.33
1.916E+00 -	2.083E+00	7	60	10.29	88.24	4.39	1.56
2.083E+00 -	2.249E+00	7	67	10.29	98.53	2.47	8.31
2.249E+00 -	2.416E+00	1	68	1.47	100.00	1.97	0.48
G		0	68	0.00	100.00	0.00	0.00
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXX
3.157E+01 XXXX
4.634E+01 XXXXXXXXXX
6.802E+01 XXX
9.985E+01 XXXXXXXXXX
1.466E+02 XXXXXXXXXX
2.151E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E+01
MAXIMUM ANTILOG      = 2.00000E+02
GEOMETRIC MEAN       = 2.84583E+01
GEOMETRIC DEVIATION  = 2.70881E+00
VARIANCE OF LOGS     = 1.87297E-01
```

PERCENT TABLE FOR VARIABLE 18 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.749335E+00	5.614809E+01
90.00	2.111240E+00	1.291934E+02
95.00	2.192193E+00	1.556657E+02
98.00	2.240765E+00	1.740863E+02

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		40	40	58.82	58.82		
	L		0	40	0.00	58.82		
	T		0	40	0.00	58.82	14.13	14.13
1.583E+00	-	1.750E+00	8	48	11.76	70.59	10.56	0.62
1.750E+00	-	1.916E+00	5	53	7.35	77.94	12.39	4.41
1.916E+00	-	2.083E+00	2	55	2.94	80.88	11.76	8.10
2.083E+00	-	2.250E+00	6	61	8.82	89.71	9.04	1.02
2.250E+00	-	2.416E+00	1	62	1.47	91.18	5.62	3.80
2.416E+00	-	2.583E+00	2	64	2.94	94.12	2.83	0.24
2.583E+00	-	2.750E+00	1	65	1.47	95.59	1.15	0.02
2.750E+00	-	2.916E+00	1	66	1.47	97.06	0.38	1.01
2.916E+00	-	3.083E+00	0	66	0.00	97.06	0.10	0.10
3.083E+00	-	3.250E+00	0	66	0.00	97.06	0.02	0.02
3.250E+00	-	3.416E+00	2	68	2.94	100.00	0.00	896.87
	G		0	68	0.00	100.00	0.00	0.00
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

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

```
4.638E+01 XXXXXXXXXXX
6.808E+01 XXXXXXX
9.992E+01 XXX
1.467E+02 XXXXXXXXX
2.153E+02 X
3.160E+02 XXX
4.638E+02 X
6.808E+02 X
9.992E+02
1.467E+03
2.153E+03 XXX
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 1.30910E+02
GEOMETRIC DEVIATION = 2.90240E+00
VARIANCE OF LOGS = 2.14144E-01

PERCENT TABLE FOR VARIABLE 19 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.849667E+00	7.074035E+01
90.00	2.283001E+00	1.918675E+02
95.00	2.683002E+00	4.819503E+02
98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	6.49	6.49
9.160E-01 -	1.083E+00	24	24	35.29	35.29	4.41	87.13
1.083E+00 -	1.249E+00	0	24	0.00	35.29	6.01	6.01
1.249E+00 -	1.416E+00	2	26	2.94	38.24	7.42	3.96
1.416E+00 -	1.583E+00	2	28	2.94	41.18	8.31	4.80
1.583E+00 -	1.749E+00	5	33	7.35	48.53	8.45	1.41
1.749E+00 -	1.916E+00	19	52	27.94	76.47	7.78	16.19
1.916E+00 -	2.083E+00	7	59	10.29	86.76	6.49	0.04
2.083E+00 -	2.249E+00	3	62	4.41	91.18	4.92	0.75
2.249E+00 -	2.416E+00	1	63	1.47	92.65	3.37	1.67
2.416E+00 -	2.583E+00	2	65	2.94	95.59	2.10	0.00
2.583E+00 -	2.749E+00	0	65	0.00	95.59	1.18	1.18
2.749E+00 -	2.916E+00	3	68	4.41	100.00	1.07	3.47
G		0	68	0.00	100.00	6.49	6.49
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01
2.151E+01 XXX
3.157E+01 XXX
4.634E+01 XXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXX
1.466E+02 XXXX
2.151E+02 X
3.157E+02 XXX
4.635E+02
6.803E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	7.00000E+02
GEOMETRIC MEAN	=	4.06648E+01
GEOMETRIC DEVIATION	=	3.38952E+00
VARIANCE OF LOGS	=	2.81046E-01

PERCENT TABLE FOR VARIABLE 22 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
75.00	1.907230E+00	8.076627E+01	90.00	2.204891E+00	1.602845E+02
			95.00	2.549337E+00	3.542718E+02
			98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		19	19	27.94	27.94		
	L		2	21	2.94	30.88		
	T		0	21	0.00	30.88	12.97	12.97
1.250E+00	-	1.417E+00	15	36	22.06	52.94	6.69	10.34
1.417E+00	-	1.583E+00	0	36	0.00	52.94	7.97	7.97
1.583E+00	-	1.750E+00	6	42	8.82	61.76	8.59	0.78
1.750E+00	-	1.917E+00	5	47	7.35	69.12	8.37	1.36
1.917E+00	-	2.083E+00	7	54	10.29	79.41	7.37	0.02
2.083E+00	-	2.250E+00	5	59	7.35	86.76	5.87	0.13
2.250E+00	-	2.417E+00	3	62	4.41	91.18	4.23	0.36
2.417E+00	-	2.583E+00	1	63	1.47	92.65	2.75	1.11
2.583E+00	-	2.750E+00	0	63	0.00	92.65	1.62	1.62
2.750E+00	-	2.917E+00	2	65	2.94	95.59	0.86	1.51
2.917E+00	-	3.083E+00	2	67	2.94	98.53	0.41	6.09
3.083E+00	-	3.250E+00	0	67	0.00	98.53	0.18	0.18
3.250E+00	-	3.417E+00	0	67	0.00	98.53	0.07	0.07
3.417E+00	-	3.583E+00	1	68	1.47	100.00	0.04	25.63
	G		0	68	0.00	100.00	0.00	0.00
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

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

```
2.154E+01 XXXXXXXXXXXXXXXXXXXXX
3.162E+01
4.642E+01 XXXXXXXXX
6.813E+01 XXXXXXX
1.000E+02 XXXXXXXXXX
1.468E+02 XXXXXXX
2.154E+02 XXXX
3.162E+02 X
4.642E+02
6.813E+02 XXX
1.000E+03 XXX
1.468E+03
2.154E+03
3.162E+03 X
```

PERCENT TABLE FOR VARIABLE 23 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABL
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTIO
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.011906E+00	1.027795E+02
90.00	2.372224E+00	2.356267E+02
95.00	2.850003E+00	7.079511E+02
98.00	3.053337E+00	1.130673E+03

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 2.00000E+01
MAXIMUM ANTILOG      = 3.00000E+03
GEOMETRIC MEAN       = 7.58680E+01
GEOMETRIC DEVIATION  = 3.49425E+00
VARIANCE OF LOGS     = 2.95233E-01
```

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		N	13	13	19.12	19.12		
		L	0	13	0.00	19.12		
		T	0	13	0.00	19.12	4.40	4.40
9.160E-01	-	1.083E+00	7	20	10.29	29.41	4.47	1.44
1.083E+00	-	1.249E+00	0	20	0.00	29.41	6.90	6.90
1.249E+00	-	1.416E+00	3	23	4.41	33.82	9.16	4.14
1.416E+00	-	1.583E+00	13	36	19.12	52.94	10.45	0.62
1.583E+00	-	1.749E+00	8	44	11.76	64.71	10.25	0.49
1.749E+00	-	1.916E+00	7	51	10.29	75.00	8.63	0.31
1.916E+00	-	2.083E+00	6	57	8.82	83.82	6.25	0.01
2.083E+00	-	2.249E+00	11	68	16.18	100.00	7.49	1.65
		G	0	68	0.00	100.00	0.00	0.00
		H	0	68				
		B	0	68				

TOTALS LESS H AND B 68

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

```
 9.985E+00 XXXXXXXXXX
 1.466E+01
 2.151E+01 XXXX
 3.157E+01 XXXXXXXXXXXXXXXXXXX
 4.634E+01 XXXXXXXXXXXX
 6.802E+01 XXXXXXXXXX
 9.985E+01 XXXXXXXXX
 1.466E+02 XXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 1.00000E+01
MAXIMUM ANTILOG      = 1.50000E+02
GEOMETRIC MEAN       = 4.81648E+01
GEOMETRIC DEVIATION  = 2.38806E+00
VARIANCE OF LOGS     = 1.42918E-01
```

PERCENT TABLE FOR VARIABLE 25 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.916002E+00	8.241419E+01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		3	3	4.41	4.41		
	L		0	3	0.00	4.41		
	T		0	3	0.00	4.41	12.86	12.86
2.250E+00	-	2.417E+00	32	35	47.06	51.47	8.07	70.96
2.417E+00	-	2.583E+00	1	36	1.47	52.94	9.74	7.84
2.583E+00	-	2.750E+00	16	52	23.53	76.47	10.20	3.30
2.750E+00	-	2.917E+00	1	53	1.47	77.94	9.27	7.38
2.917E+00	-	3.083E+00	2	55	2.94	80.88	7.31	3.85
3.083E+00	-	3.250E+00	4	59	5.88	86.76	5.00	0.20
3.250E+00	-	3.417E+00	5	64	7.35	94.12	2.97	1.40
3.417E+00	-	3.583E+00	0	64	0.00	94.12	1.53	1.53
3.583E+00	-	3.750E+00	3	67	4.41	98.53	0.68	7.88
3.750E+00	-	3.917E+00	0	67	0.00	98.53	0.26	0.26
3.917E+00	-	4.083E+00	1	68	1.47	100.00	0.12	6.24
	G		0	68	0.00	100.00	0.00	0.00
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

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

```
2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+02 X
4.642E+02 XXXXXXXXXXXXXXXXXXXXXXXX
6.813E+02 X
1.000E+03 XXX
1.468E+03 XXXXXX
2.154E+03 XXXXXXX
3.162E+03
4.642E+03 XXXX
6.813E+03
1.000E+04 X
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 1.00000E+04
GEOMETRIC MEAN = 4.49782E+02
GEOMETRIC DEVIATION = 2.77755E+00
VARIANCE OF LOGS = 1.96836E-01

PERCENT TABLE FOR VARIABLE 27 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.739584E+00	5.490151E+02
90.00	3.323335E+00	2.105404E+03
95.00	3.483336E+00	3.043237E+03
98.00	3.710003E+00	5.128649E+03

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00	0.29	0.29
1.583E+00	-	1.750E+00	5	5	7.35	7.35	1.96	4.74
1.750E+00	-	1.916E+00	5	10	7.35	14.71	7.85	1.04
1.916E+00	-	2.083E+00	16	26	23.53	38.24	17.26	0.09
2.083E+00	-	2.250E+00	17	43	25.00	63.24	20.81	0.70
2.250E+00	-	2.416E+00	21	64	30.88	94.12	13.75	3.82
2.416E+00	-	2.583E+00	3	67	4.41	98.53	4.98	0.79
2.583E+00	-	2.750E+00	1	68	1.47	100.00	1.10	0.01
	G		0	68	0.00	100.00	0.29	0.29
	H		0	68				
	B		0	68				

TOTALS LESS H AND B 68

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

```
4.638E+01 XXXXXXX
6.808E+01 XXXXXXX
9.992E+01 XXXXXXXXXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXX
4.638E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+01
MAXIMUM ANTILOG      = 5.00000E+02
GEOMETRIC MEAN       = 1.36393E+02
GEOMETRIC DEVIATION  = 1.61975E+00
VARIANCE OF LOGS     = 4.38689E-02
```

PERCENT TABLE FOR VARIABLE 28 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.313160E+00	2.056649E+02
90.00	2.394113E+00	2.478065E+02
95.00	2.449668E+00	2.816232E+02
98.00	2.563002E+00	3.655965E+02

Table 7. Graphical Analyses of analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.41	0.41
1.250E+00 -	1.417E+00	1	1	1.47	1.47	0.62	0.24
1.417E+00 -	1.583E+00	0	1	0.00	1.47	1.28	1.28
1.583E+00 -	1.750E+00	4	5	5.88	7.35	2.37	1.13
1.750E+00 -	1.917E+00	8	13	11.76	19.12	3.90	4.30
1.917E+00 -	2.083E+00	5	18	7.35	26.47	5.74	0.10
2.083E+00 -	2.250E+00	6	24	8.82	35.29	7.53	0.31
2.250E+00 -	2.417E+00	5	29	7.35	42.65	8.81	1.64
2.417E+00 -	2.583E+00	3	32	4.41	47.06	9.18	4.16
2.583E+00 -	2.750E+00	12	44	17.65	64.71	8.53	1.41
2.750E+00 -	2.917E+00	13	57	19.12	83.82	7.07	4.97
2.917E+00 -	3.083E+00	7	64	10.29	94.12	5.23	0.60
3.083E+00 -	3.250E+00	3	67	4.41	98.53	3.44	0.06
3.250E+00 -	3.417E+00	0	67	0.00	98.53	2.02	2.02
3.417E+00 -	3.583E+00	0	67	0.00	98.53	1.06	1.06
3.583E+00 -	3.750E+00	1	68	1.47	100.00	0.81	0.04
G		0	68	0.00	100.00	0.41	0.41
H		0	68				
B		0	68				

TOTALS LESS H AND B 68

HISTOGRAM FOR VARIABLE 30 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 X
3.162E+01
4.642E+01 XXXXXX
6.813E+01 XXXXXXXXXXX
1.000E+02 XXXXXXX
1.468E+02 XXXXXXXXX
2.154E+02 XXXXXXX
3.162E+02 XXXX
4.642E+02 XXXXXXXXXXXXXXXXX
6.813E+02 XXXXXXXXXXXXXXXXX
1.000E+03 XXXXXXXXX
1.468E+03 XXXX
2.154E+03
3.162E+03
4.642E+03 X
```

PERCENT TABLE FOR VARIABLE 30 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.839747E+00	6.914277E+02
90.00	3.016670E+00	1.039131E+03
95.00	3.116670E+00	1.308189E+03
98.00	3.230004E+00	1.698259E+03

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 2.00000E+01
MAXIMUM ANTILOG      = 5.00000E+03
GEOMETRIC MEAN       = 3.00078E+02
GEOMETRIC DEVIATION  = 3.08752E+00
VARIANCE OF LOGS     = 2.39718E-01
```

Table 8. Correlation Analyses for analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -

		1 LATITUDE	2 LONGITUD	3 S-FE%	4 S-MG%	5 S-CA%	6 S-TI%	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1	LATITUDE	0.0470	-0.1972	-0.4038	-0.2344	-0.4906	-0.0669	-0.4999	**********	**********	**********
2	LONGITUD	68	0.0367	0.0272	-0.2508	0.0422	0.2031	0.0017	**********	**********	**********
3	S-FE%	68	68	1.2022	0.6373	0.7699	0.3330	0.7927	**********	**********	**********
4	S-MG%	68	68	68	2.7658	0.5929	-0.1118	0.5051	**********	**********	**********
5	S-CA%	68	68	68	68	3.0486	0.1753	0.6791	**********	**********	**********
6	S-TI%	63	63	63	63	63	0.8033	0.1636	**********	**********	**********
7	S-MN	68	68	68	68	68	63	481.4263	**********	**********	**********
8	S-AG	0	0	0	0	0	0	0	**********	**********	**********
9	S-AS	0	0	0	0	0	0	0	0	**********	**********
10	S-AU	0	0	0	0	0	0	0	0	0	**********
11	S-B	67	67	67	67	67	62	67	0	0	0
12	S-BA	50	50	50	50	50	45	50	0	0	0
13	S-BE	0	0	0	0	0	0	0	0	0	0
14	S-BI	0	0	0	0	0	0	0	0	0	0
15	S-CD	0	0	0	0	0	0	0	0	0	0
16	S-CO	34	34	34	34	34	33	34	0	0	0
17	S-CR	68	68	68	68	68	63	68	0	0	0
18	S-CU	64	64	64	64	64	59	64	0	0	0
19	S-LA	28	28	28	28	28	28	28	0	0	0
20	S-MO	0	0	0	0	0	0	0	0	0	0
21	S-NB	1	1	1	1	1	1	1	0	0	0
22	S-NI	68	68	68	68	68	63	68	0	0	0
23	S-PB	47	47	47	47	47	42	47	0	0	0
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	55	55	55	55	55	50	55	0	0	0
26	S-SN	1	1	1	1	1	1	1	0	0	0
27	S-SR	65	65	65	65	65	60	65	0	0	0
28	S-V	68	68	68	68	68	63	68	0	0	0
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	68	68	68	68	68	63	68	0	0	0
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	0	0	0	0	0	0	0	0	0	0
33	S-TH	1	1	1	1	1	1	1	0	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 8. Correlation Analyses for analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1	LATITUDE	0.2495	0.0785	**********	**********	**********	-0.2710	-0.0689	-0.1986	-0.2482	**********
2	LONGITUD	0.1292	0.4088	**********	**********	**********	-0.2084	-0.1832	-0.2206	0.2500	**********
3	S-FE%	0.0046	-0.0125	**********	**********	**********	0.7503	0.5867	0.3286	0.4520	**********
4	S-MG%	-0.1697	-0.0938	**********	**********	**********	0.8840	0.7881	0.3688	-0.1964	**********
5	S-CA%	-0.2127	-0.1549	**********	**********	**********	0.6397	0.4282	0.2624	0.4034	**********
6	S-TI%	0.3710	0.3556	**********	**********	**********	-0.0147	0.0358	0.0016	0.5211	**********
7	S-MN	-0.0500	-0.0934	**********	**********	**********	0.6219	0.4421	0.4267	0.2884	**********
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	199.0752	0.2353	**********	**********	**********	-0.1940	0.1114	-0.2604	-0.1372	**********
12	S-BA	49	2704.2702	**********	**********	**********	0.0345	0.0331	-0.1346	-0.1282	**********
13	S-BE	0	0	**********	**********	**********	**********	**********	**********	**********	**********
14	S-BI	0	0	0	**********	**********	**********	**********	**********	**********	**********
15	S-CD	0	0	0	0	**********	**********	**********	**********	**********	**********
16	S-CO	34	23	0	0	0	16.3654	0.8315	0.3219	-0.2100	**********
17	S-CR	67	50	0	0	0	34	542.0150	0.3263	-0.2930	**********
18	S-CU	64	46	0	0	0	33	64	50.5054	-0.1633	**********
19	S-LA	28	16	0	0	0	16	28	28	507.6707	**********
20	S-MO	0	0	0	0	0	0	0	0	0	**********
21	S-NB	1	1	0	0	0	1	1	1	1	0
22	S-NI	67	50	0	0	0	34	68	64	28	0
23	S-PB	47	33	0	0	0	18	47	47	20	0
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	54	45	0	0	0	29	55	53	19	0
26	S-SN	1	1	0	0	0	1	1	1	1	0
27	S-SR	64	47	0	0	0	32	65	61	27	0
28	S-V	67	50	0	0	0	34	68	64	28	0
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	67	50	0	0	0	34	68	64	28	0
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	0	0	0	0	0	0	0	0	0	0
33	S-TH	1	0	0	0	0	1	1	1	1	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 8. Correlation Analyses for analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1	LATITUDE	**********	-0.2537	0.1671	**********	0.4197	**********	-0.3126	-0.0695	**********	0.3839
2	LONGITUD	**********	-0.2994	0.1332	**********	0.2521	**********	0.2934	0.0608	**********	0.1879
3	S-FE%	**********	0.6767	0.0908	**********	-0.2138	**********	0.3392	0.6344	**********	-0.0995
4	S-MG%	**********	0.8655	-0.0204	**********	-0.2668	**********	-0.0318	0.2765	**********	-0.2037
5	S-CA%	**********	0.6189	0.0574	**********	-0.3257	**********	0.3798	0.4032	**********	-0.2463
6	S-TI%	**********	-0.1732	0.2113	**********	0.4569	**********	0.5411	0.7246	**********	0.4783
7	S-MN	**********	0.6466	0.0354	**********	-0.3382	**********	0.1822	0.4610	**********	-0.2309
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	**********	-0.1953	-0.0917	**********	0.3930	**********	-0.1491	0.1836	**********	0.4090
12	S-BA	**********	-0.1227	0.2330	**********	0.3309	**********	0.2105	0.1868	**********	0.1486
13	S-BE	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	**********	0.9287	0.0284	**********	-0.0956	**********	-0.0525	0.6644	**********	-0.3537
17	S-CR	**********	0.7557	-0.0341	**********	-0.0079	**********	-0.1030	0.4659	**********	0.1708
18	S-CU	**********	0.4055	0.3058	**********	-0.3877	**********	0.1429	0.2345	**********	-0.0928
19	S-LA	**********	-0.3630	0.1625	**********	-0.1586	**********	0.6655	0.4538	**********	0.0059
20	S-MO	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
21	S-NB	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
22	S-NI	1	145.2722	0.0326	**********	-0.3098	**********	-0.0409	0.2658	**********	-0.2411
23	S-PB	0	47	475.8536	**********	-0.0746	**********	0.1963	0.2232	**********	0.0055
24	S-SB	0	0	0	**********	**********	**********	**********	**********	**********	**********
25	S-SC	1	55	40	0	49.4120	**********	-0.1585	0.3407	**********	0.5969
26	S-SN	0	1	1	0	1	**********	**********	**********	**********	**********
27	S-SR	1	65	46	0	53	1	1578.1211	0.4751	**********	-0.0355
28	S-V	1	68	47	0	55	1	65	73.7249	**********	0.3606
29	S-W	0	0	0	0	0	0	0	0	**********	**********
30	S-Y	1	68	47	0	55	1	65	68	0	670.2984
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	0	0	0	0	0	0	0	0	0	0
33	S-TH	0	1	1	0	0	0	1	1	0	1

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 8. Correlation Analyses for analytical data for heavy mineral concentrates of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		31 S-ZN	32 S-ZR	33 S-TH
1	LATITUDE	**********	**********	**********
2	LONGITUD	**********	**********	**********
3	S-FE%	**********	**********	**********
4	S-MG%	**********	**********	**********
5	S-CA%	**********	**********	**********
6	S-TI%	**********	**********	**********
7	S-MN	**********	**********	**********
8	S-AG	**********	**********	**********
9	S-AS	**********	**********	**********
10	S-AU	**********	**********	**********
11	S-B	**********	**********	**********
12	S-BA	**********	**********	**********
13	S-BE	**********	**********	**********
14	S-BI	**********	**********	**********
15	S-CD	**********	**********	**********
16	S-CO	**********	**********	**********
17	S-CR	**********	**********	**********
18	S-CU	**********	**********	**********
19	S-LA	**********	**********	**********
20	S-MO	**********	**********	**********
21	S-NB	**********	**********	**********
22	S-NI	**********	**********	**********
23	S-PB	**********	**********	**********
24	S-SB	**********	**********	**********
25	S-SC	**********	**********	**********
26	S-SN	**********	**********	**********
27	S-SR	**********	**********	**********
28	S-V	**********	**********	**********
29	S-W	**********	**********	**********
30	S-Y	**********	**********	**********
31	S-ZN	**********	**********	**********
32	S-ZR	0	**********	**********
33	S-TH	0	0	**********

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day, A.L. Gruzensky, D.K. Kelley, G. Nelson, J. Sharkey, and L.S. Sherlock. The following qualifiers are used in reporting spectrographic data: --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
RS248R	34 51 42	111 42 24	.2	10.0	20.0	.05	150	3.0	N	N	70
RS275R	34 49 34	111 41 24	.2	.1	.2	.05	100	N	N	N	30
RS276R	34 49 36	111 41 28	.2	.1	.2	.05	70	N	N	N	10
RS310R	34 47 51	111 41 23	2.0	2.0	>20.0	.20	700	N	N	N	70
RS312R	34 41 7	111 45 44	5.0	5.0	20.0	.50	2,000	N	N	N	20
RS313R	34 41 5	111 45 51	15.0	10.0	20.0	1.00	5,000	N	N	N	50
RS314R	34 41 7	111 45 54	2.0	7.0	>20.0	.20	2,000	N	N	N	50
RS315R	34 48 53	111 42 58	.5	7.0	20.0	.10	150	N	N	N	20
RS324R	34 47 2	111 41 11	.1	2.0	>20.0	.02	100	N	N	N	<10
RS326R	34 51 39	111 39 23	.5	.1	.1	.10	150	N	N	N	30
RS327R	34 51 34	111 39 24	.2	.1	.1	.10	150	N	N	N	30
RS328R1	34 49 7	111 42 23	1.0	.2	.1	.20	500	N	N	N	100
RS328R2	34 49 7	111 42 23	1.0	10.0	20.0	.10	1,500	N	N	N	100
RS328R3	34 49 7	111 42 23	2.0	2.0	5.0	.50	700	N	N	N	100
RS329R1	34 49 0	111 46 21	2.0	10.0	20.0	.50	1,000	N	N	N	200
RS329R2	34 49 0	111 46 21	.5	10.0	20.0	.20	1,500	N	N	N	100
RS330R	34 41 55	111 45 40	2.0	1.0	20.0	.20	1,500	N	N	N	50
RS331R1	34 45 45	111 45 59	2.0	10.0	20.0	.50	1,000	N	N	N	200
RS331R2	34 45 45	111 45 59	2.0	1.0	.2	.70	1,000	N	N	N	70
RS332R	34 42 17	111 42 54	10.0	10.0	20.0	1.00	2,000	N	N	N	50

Table 9. Analytical data for rocks of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
RS248R	70	N	N	N	N	100	15	N	N	N	10
RS275R	150	N	N	N	N	20	70	N	N	N	10
RS276R	70	N	N	N	N	N	5	N	N	N	10
RS310R	500	1	N	N	50	200	70	30	N	N	70
RS312R	500	N	N	N	70	500	150	N	N	N	100
RS313R	700	N	N	N	100	1,000	200	30	N	N	200
RS314R	1,000	1	N	N	30	200	70	20	N	N	100
RS315R	100	1	N	N	N	70	20	N	N	N	30
RS324R	2,000	N	N	N	N	50	20	N	N	N	5
RS326R	200	N	N	N	N	10	20	N	N	N	10
RS327R	100	1	N	N	N	20	50	N	N	N	10
RS328R1	500	2	N	N	10	50	150	N	N	N	30
RS328R2	200	1	N	N	50	70	150	30	N	N	30
RS328R3	700	1	N	N	15	70	150	30	N	N	30
RS329R1	700	1	N	N	20	150	100	30	N	N	50
RS329R2	200	1	N	N	15	70	50	N	N	N	15
RS330R	700	1	N	N	15	70	100	30	N	N	50
RS331R1	700	1	N	N	15	150	100	70	N	N	50
RS331R2	700	1	N	N	15	100	30	30	N	N	50
RS332R	5,000	1	N	N	70	500	200	200	N	<20	100

Table 9. Analytical data for rocks of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppn-s (100)
RS248R	N	N	N	N	100	70	N	20	N	30	N
RS275R	10	N	N	N	200	30	N	10	N	500	N
RS276R	N	N	N	N	N	30	N	N	N	150	N
RS310R	50	N	10	N	700	100	N	20	N	150	N
RS312R	10	N	30	N	300	200	N	50	N	100	N
RS313R	30	N	50	N	700	200	N	50	N	100	N
RS314R	20	N	10	N	500	50	N	20	N	70	N
RS315R	30	N	N	N	100	50	N	50	N	50	N
RS324R	<10	N	N	N	1,000	10	N	10	N	20	N
RS326R	N	N	N	N	100	30	N	N	N	200	N
RS327R	10	N	N	N	100	30	N	N	N	200	N
RS328R1	70	N	5	N	100	70	N	20	N	300	N
RS328R2	50	N	5	N	200	70	N	10	N	150	N
RS329R3	50	N	10	N	200	100	N	50	N	700	N
RS329R1	70	N	10	N	300	70	N	50	N	500	N
RS329R2	20	N	N	N	100	30	N	30	N	100	N
RS330R	70	N	15	N	300	100	N	30	N	70	N
RS331R1	70	N	10	N	200	100	N	70	N	500	N
RS331R2	50	N	5	N	100	100	N	30	N	1,000	N
RS332R	30	N	30	N	1,000	300	N	70	N	150	N

Table 9. Analytical data for rocks of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
RS248R	N	10	N	N	N	2.90
RS275R	N	5	N	<2	N	.10
RS276R	N	10	N	N	1	.05
RS310R	<5	25	N	N	1	.60
RS312R	<5	50	N	N	N	.50
RS313R	<5	40	N	N	2	.45
RS314R	N	45	N	<2	N	1.80
RS315R	5	140	3.4	N	N	5.50
RS324R	N	40	.1	N	1	2.30
RS326R	N	30	N	<2	N	.10
RS327R	N	5	N	N	N	.15
RS328R1	N	70	N	N	3	.40
RS328R2	<5	60	N	N	2	.85
RS328R3	<5	25	N	N	1	.40
RS329R1	N	15	N	N	1	.55
RS329R2	N	10	N	N	N	.55
RS330R	5	30	N	N	2	.35
RS331R1	5	20	N	N	1	.45
RS331R2	N	25	.3	<2	N	.45
RS332R	<5	100	N	N	N	.65

Table 9a.—Description of rock samples from Rattlesnake Roadless Area, Arizona

Sample No.	Formation	Brief Description
RS248R	Kaibab Limestone Permian	Gray to buff limestone collected from the head of Jacks Canyon.
RS275R	Toroweap Formation Permian	Yellow to buff crossbedded sandstone. Collected from Jacks Hill.
RS276R	Coconino Sandstone Permian	Buff to tan, clean, crossbedded sandstone collected from Jacks Hill below RS275R.
RS310R	Verde Formation Tertiary	Taken below basalt flow in Woods Canyon. Contains clasts of Kaibab Limestone and Toroweap Formation.
RS312R	Basalt Tertiary	Contains calcite- and epidote-filled fractures. Collected near Winter Spring Cabin.
RS313R	Basalt Tertiary	From same area and unit as RS312R, but lacking fracture mineralization.
RS314R	Marl Tertiary	Probably related to Verde lake sediments, oozed up through cracks in cooling basalts deposited in lake environments. Sample taken from vein-type buff-colored deposit cross-cutting basalt.
RS315R	Kaibab Limestone Permian	"Baked" limestone taken at contact with basalt plug on Lee Mtn. Highly fractured and lighter in color than other Kaibab.
RS324R	Travertine	Sample taken from ledge formed by the deposits of an ancient spring extending into middle Woods Canyon.
RS326R	Coconino Sandstone Permian	Buff, moderately weathered sandstone collected in fault-controlled drainage channel where Coconino and basalts are in contact, upper Woods Canyon.
RS327R	Coconino Sandstone Permian	Tan to buff sandstone taken 5 ft on west side of fault scarp across canyon from sample RS326R.

Table 9a.—Description of rock samples from Rattlesnake Roadless Area, Arizona—continued

Sample No.	Formation	Brief Description
RS328R1	Coconino Sandstone Permian	Taken on downthrown side of Oak Creek Fault extension in Jacks Canyon.
RS328R2	Fort Apache Limestone Member Permian	Member of Supai Formation. Collected on upthrown side of Oak Creek Fault Extension, Jacks Canyon.
RS328R3	Upper Supai Permian	Collected on upthrown side of Oak Creek Fault, same area as same RS328R2. Rust to orange, medium-grained sandstone.
RS329R1	Lower middle Supai Permian	Purplish-red sandstone collected along stream channel by borrow pit along Route 179 near Oak Creek.
RS329R2	Upper lower Supai Permian	Pink to purple pebbly conglomerate collected just below RS329R1.
RS330R	Verde Formation Tertiary	Variety of source material (including Precambrian) comprising clasts with marly martrix. Collected from road cut along Route 179, 4 mi south of Oak Creek.
RS331R1	Middle Supai Permian	Purplish-red sandstone collected at road cut along Route 179 just south of Oak Creek.
RS331R2	Upper Supai Permian	Orange sandstone collected just south of sample RS331R1.
RS332R	Basalt Tertiary	"Pebbly" basalt intercalated with marly material collected along Blue Grade Road between units of Verde Formation.

Table 10. Analytical data for waters of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by W. Ficklin, J. McHugh, and R. Tucker. Lower limits of detection shown in parenthases in column headings. N, concentration less than the detection limit.]

Sample	Latitude	Longitude	Ca-mg/L (.1)	Mg-mg/L (.1)	Na-mg/L (.01)	K-mg/L (.01)	Li-mg/L (1)	SiO2-mg/L (1)	Alk-mg/L (1)	SO4-mg/L (.1)	Cl-mg/L (.01)
RS 254W	34 49 46	111 42 4	8.9	4.9	9.9	1.9	2	29	46.4	3.3	5.2
RS 278W	34 47 52	111 45 53	65.0	68.0	22.0	1.8	6	18	608.3	62.5	38.3
RS 278WD	34 47 52	111 45 53	71.0	73.0	23.0	3.6	11	22	524.0	70.2	22.9
RS 288W	34 49 38	111 40 37	29.0	10.0	6.8	5.8	2	10	134.4	12.6	9.3

Table 10. Analytical data for waters of the Rattlesnake Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	F-mg/L (.01)	Zn-µg/L (1)	Cu-µg/L (1)	Mo-µg/L (1)	As-µg/L (1)	Fe-µg/L (1)	Mn-µg/L (1)	Al-µg/L (1)	U-µg/L (.01)	Sp Cond-µmhos/cm (.01)	pH	Temp c
RS 254W	.19	31	5.9	.2	5.2	1,800	70	77.0	N	110	6.35	32
RS 278W	.44	65	.5	.7	5.1	4	40	8.8	N	920	7.38	30
RS 278WD	.59	107	.6	.5	5.0	80	420	9.1	N	900	7.63	19
RS 288W	.12	41	1.5	.4	.7	540	840	19.0	N	260	6.75	25

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day, A.L. Gruzensky, D.K. Kelley, G. Nelson, J. Sharkey, and L.S. Sherlock. The following qualifiers are used in reporting spectrographic data: --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
WB101S	34 41 49	111 39 52	10	5.0	5.0	.7	2,000	N	N	N	70
WB102S	34 41 48	111 39 54	10	10.0	20.0	.7	2,000	N	N	N	50
WB103S	34 41 49	111 39 58	7	2.0	1.0	.5	2,000	N	N	N	50
WB104S	34 41 40	111 40 11	10	5.0	5.0	.7	2,000	N	N	N	50
WB105S	34 41 30	111 40 17	10	5.0	5.0	1.0	2,000	N	N	N	30
WB106S	34 41 24	111 40 22	10	5.0	5.0	1.0	2,000	N	N	N	50
WB107S	34 41 8	111 40 55	2	2.0	2.0	.5	500	N	N	N	100
WB108S	34 40 53	111 41 3	10	10.0	5.0	1.0	1,500	N	N	N	50
WB110S	34 41 8	111 29 57	10	10.0	5.0	1.0	>5,000	N	N	N	70
WB111S	34 41 16	111 31 0	5	1.0	.5	.5	5,000	N	N	N	70
WB112S	34 41 2	111 31 25	10	10.0	5.0	1.0	3,000	N	N	N	50
WB113S	34 41 16	111 31 12	7	1.0	1.0	.7	5,000	N	N	N	50
WB114S	34 41 1	111 31 24	10	10.0	5.0	1.0	5,000	N	N	N	70
WB115S	34 40 21	111 32 10	7	2.0	1.0	.7	3,000	N	N	N	70
WB116S	34 40 25	111 32 10	15	10.0	10.0	1.0	5,000	N	N	N	70
WB117S	34 40 32	111 32 34	7	2.0	2.0	.7	2,000	N	N	N	100
WB119S	34 40 50	111 32 55	5	1.0	1.0	.5	1,500	N	N	N	70
WB120S	34 41 50	111 32 53	7	2.0	2.0	.7	2,000	N	N	N	70
WB121S	34 39 55	111 39 6	10	10.0	10.0	.5	2,000	N	N	N	50
WB122S	34 40 24	111 39 34	5	5.0	5.0	.7	1,000	N	N	N	30
WB123S	34 41 5	111 32 59	7	2.0	1.0	.7	2,000	N	N	N	70
WB124S	34 41 11	111 33 5	7	2.0	1.0	.7	2,000	N	N	N	70
WB125S	34 40 59	111 33 35	7	2.0	2.0	.7	2,000	N	N	N	70
WB126S	34 41 12	111 34 15	10	5.0	5.0	1.0	3,000	N	N	N	70
WB127S	34 41 6	111 34 27	7	5.0	2.0	.7	2,000	N	N	N	70
WB129S	34 40 56	111 35 1	3	1.0	1.0	.3	700	N	N	N	50
WB130S	34 40 44	111 35 17	7	10.0	10.0	1.0	2,000	N	N	N	70
WB131S	34 40 48	111 35 18	2	1.0	2.0	.2	1,000	N	N	N	70
WB132S	34 40 16	111 34 44	7	2.0	1.0	.7	2,000	N	N	N	100
WB133S	34 40 18	111 34 45	10	2.0	1.0	1.0	2,000	N	N	N	70
WB134S	34 40 58	111 35 58	7	10.0	10.0	.7	1,000	N	N	N	30
WB135S	34 40 58	111 36 7	7	10.0	20.0	1.0	2,000	N	N	N	70
WB136S	34 40 45	111 36 45	3	1.0	[illegible]	.5	1,000	N	N	N	50
WB137S	34 40 42	111 37 11	2	2.0	10[illegible]	.5	1,000	N	N	N	50
WB138S	34 40 6	111 36 30	3	2.0	7.0	.7	1,500	N	N	N	70
WB139S	34 40 7	111 36 27	10	10.0	7.0	1.0	5,000	N	N	N	100
WB140S	34 40 27	111 37 26	1	.3	.5	.2	500	N	N	N	30
WB141S	34 41 4	111 38 54	5	5.0	5.0	.7	2,000	N	N	N	30
WB142S	34 41 5	111 38 56	5	2.0	2.0	.5	1,000	N	N	N	70
WB143S	34 40 53	111 39 16	3	2.0	1.0	.5	1,000	N	N	N	50
WB144S	34 40 39	111 39 22	5	2.0	5.0	.5	1,000	N	N	N	30
WB145S	34 40 33	111 39 29	2	2.0	1.0	.3	500	N	N	N	30
WB146S	34 40 31	111 40 8	2	.5	.7	.3	700	N	N	N	50
WB147S	34 40 41	111 40 35	7	5.0	5.0	.7	1,500	N	N	N	30
WB148S	34 40 51	111 41 11	2	2.0	5.0	.3	1,000	N	N	N	50

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
WB101S	1,000	1	N	N	30	700	150	70	N	20	200
WB102S	1,000	1	N	N	30	700	150	70	N	30	200
WB103S	1,000	1	N	N	30	500	100	50	N	<20	100
WB104S	1,000	1	N	N	30	500	100	70	N	20	100
WB105S	1,000	1	N	N	30	500	100	70	N	30	150
WB106S	700	1	N	N	50	700	150	70	N	20	200
WB107S	700	1	N	N	15	150	70	20	N	N	70
WB108S	1,000	1	N	N	30	700	100	50	N	20	200
WB110S	1,000	1	N	N	70	3,000	150	70	N	30	500
WB111S	1,000	1	N	N	50	150	100	70	N	N	50
WB112S	700	1	N	N	100	700	150	50	N	20	200
WB113S	700	1	N	N	30	300	150	50	N	N	70
WB114S	1,000	1	N	N	100	700	100	50	N	20	200
WB115S	1,000	1	N	N	50	300	100	70	N	20	150
WB116S	1,000	N	N	N	100	2,000	200	70	N	20	500
WB117S	1,000	1	N	N	30	300	100	70	N	20	50
WB119S	700	1	N	N	20	300	100	70	N	N	70
WB120S	700	1	N	N	30	700	100	70	N	20	150
WB121S	1,000	1	N	N	30	1,000	100	50	N	<20	200
WB122S	1,000	1	N	N	30	500	100	30	N	<20	100
WB123S	700	1	N	N	30	200	100	50	N	20	70
WB124S	1,000	1	N	N	30	500	150	70	N	20	50
WB125S	1,000	1	N	N	30	500	150	70	N	20	100
WB126S	1,000	1	N	N	50	500	100	70	N	20	200
WB127S	1,000	1	N	N	30	700	100	70	N	20	150
WB129S	700	1	N	N	10	200	70	20	N	<20	50
WB130S	1,500	1	N	N	50	700	100	70	N	20	150
WB131S	300	1	N	N	10	150	70	20	N	N	30
WB132S	1,000	1	N	N	30	500	100	70	N	20	100
WB133S	1,000	1	N	N	50	700	100	70	N	20	150
WB134S	1,000	N	N	N	70	700	70	50	N	N	200
WB135S	700	1	N	N	50	700	100	70	N	30	200
WB136S	700	1	N	N	20	300	70	50	N	N	100
WB137S	500	1	N	N	20	200	70	20	N	N	100
WB138S	1,000	1	N	N	20	300	100	50	N	N	100
WB139S	1,500	1	N	N	70	1,000	100	100	N	30	150
WB140S	300	1	N	N	10	100	50	20	N	N	50
WB141S	700	1	N	N	30	500	100	70	N	<20	150
WB142S	700	1	N	N	30	500	100	20	N	<20	70
WB143S	700	1	N	N	20	300	100	20	N	<20	100
WB144S	1,500	1	N	N	30	300	150	20	N	N	200
WB145S	500	1	N	N	20	200	70	20	N	N	70
WB146S	500	1	N	N	20	200	50	20	N	N	70
WB147S	1,000	1	N	N	30	500	100	50	N	20	150
WB148S	700	1	N	N	15	200	70	20	N	N	100

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
WB101S	70	N	20	N	300	200	N	30	N	500	N
WB102S	70	N	15	N	700	150	N	30	N	150	N
WB103S	70	N	20	N	500	150	N	30	N	200	N
WB104S	70	N	20	N	700	200	N	30	N	200	N
WB105S	70	N	20	N	500	200	N	30	N	200	N
WB106S	70	N	20	N	500	200	N	30	N	200	N
WB107S	50	N	10	N	300	100	N	30	N	500	N
WB108S	70	N	20	N	300	150	N	30	N	200	N
WB110S	70	N	20	N	300	300	N	30	N	300	N
WB111S	70	N	15	N	200	200	N	30	N	300	N
WB112S	70	N	30	N	300	200	N	30	N	200	N
WB113S	100	N	15	N	300	150	N	30	N	500	N
WB114S	70	N	20	N	300	200	N	30	N	200	N
WB115S	70	N	15	N	300	200	N	30	N	500	N
WB116S	70	N	30	N	500	300	N	30	N	200	N
WB117S	70	N	15	N	300	200	N	30	N	300	N
WB119S	70	N	15	N	300	100	N	30	N	150	N
WB120S	70	N	20	N	300	200	N	30	N	300	N
WB121S	70	N	20	N	500	200	N	30	N	200	N
WB122S	50	N	15	N	300	150	N	20	N	200	N
WB123S	70	N	15	N	300	100	N	30	N	200	N
WB124S	70	N	20	N	300	150	N	30	N	100	N
WB125S	100	N	15	N	300	200	N	30	N	500	N
WB126S	70	N	30	N	700	200	N	50	N	500	N
WB127S	70	N	15	N	300	200	N	30	N	200	N
WB129S	70	N	10	N	300	150	N	20	N	200	N
WB130S	70	N	20	N	700	200	N	30	N	200	N
WB131S	70	N	7	N	100	100	N	20	N	300	N
WB132S	100	N	15	N	300	200	N	30	N	500	N
WB133S	100	N	20	N	300	200	N	30	N	700	N
WB134S	30	N	20	N	300	200	N	20	N	150	N
WB135S	70	N	30	N	300	300	N	30	N	200	N
WB136S	70	N	10	N	200	100	N	20	N	500	N
WB137S	50	N	10	N	300	100	N	20	N	200	N
WB138S	70	N	15	N	500	150	N	30	N	200	N
WB139S	100	N	30	N	700	200	N	50	N	500	N
WB140S	70	N	5	N	200	50	N	10	N	200	N
WB141S	30	N	20	N	300	200	N	20	N	200	N
WB142S	70	N	15	N	300	100	N	30	N	150	N
WB143S	50	N	15	N	300	200	N	30	N	500	N
WB144S	70	N	10	N	500	150	N	20	N	500	N
WB145S	20	N	10	N	300	100	N	20	N	150	N
WB146S	20	N	10	N	100	100	N	10	N	200	N
WB147S	70	N	15	N	300	150	N	30	N	200	N
WB148S	50	N	15	N	500	100	N	20	N	1,000	N

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
WB101S	5	85.0	.1	<2	1	1.20
WB102S	N	80.0	N	<2	N	.50
WB103S	<5	75.0	.1	<2	N	.80
WB104S	<5	90.0	.1	<2	N	.35
WB105S	<5	70.0	N	<2	1	.40
WB106S	<5	160.0	.5	N	N	.20
WB107S	<5	25.0	.1	<2	N	.15
WB108S	5	60.0	.1	<2	N	.30
WB110S	<5	165.0	.5	N	N	1.00
WB111S	15	170.0	.3	N	N	.75
WB112S	5	180.0	.6	N	N	.05
WB113S	5	110.0	.3	N	N	.80
WB114S	5	140.0	.2	N	N	.80
WB115S	5	160.0	.3	N	N	1.10
WB116S	5	195.0	.2	N	N	.55
WB117S	5	200.0	.3	N	N	.85
WB119S	<5	140.0	.6	N	N	1.20
WB120S	5	180.0	.3	N	N	1.40
WB121S	5	50.0	.2	2	N	.20
WB122S	5	40.0	.1	<2	N	.30
WB123S	<5	110.0	.3	N	N	1.10
WB124S	5	185.0	.7	N	N	2.60
WB125S	<5	135.0	.2	N	N	.60
WB126S	5	120.0	.6	N	N	.95
WB127S	<5	120.0	.5	N	N	.90
WB129S	5	160.0	.5	N	N	.55
WB130S	<5	120.0	.5	N	N	.85
WB131S	5	.6	.3	N	N	.40
WB132S	5	140.0	.2	N	N	1.20
WB133S	<5	145.0	.3	N	N	.80
WB134S	<5	60.0	.6	N	N	.20
WB135S	<5	130.0	.6	N	N	.50
WB136S	<5	30.0	.5	N	N	.40
WB137S	<5	70.0	.6	N	N	.45
WB138S	N	85.0	.4	N	N	.75
WB139S	5	120.0	.6	N	N	.90
WB140S	5	100.0	.5	N	N	.45
WB141S	N	60.0	N	<2	N	.35
WB142S	<5	50.0	.2	<2	N	.55
WB143S	5	120.0	.2	<2	N	.30
WB144S	5	55.0	.1	<2	2	.15
WB145S	5	35.0	.1	<2	1	.25
WB146S	5	45.0	.4	N	N	1.00
WB147S	<5	50.0	.1	2	1	.25
WB148S	5	45.0	.1	<2	1	.25

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
WB149S	34 40 20	111 37 45	7	7.0	7.0	.7	2,000	N	N	N	50
WB150S	34 40 1	111 37 58	2	.7	.5	.3	1,000	N	N	N	70
WB151S	34 40 16	111 38 46	5	5.0	5.0	.5	1,500	N	N	N	70
WB152S	34 40 51	111 40 5	2	1.0	.7	.3	1,000	N	N	N	50
WB153S	34 40 58	111 40 22	7	2.0	5.0	.7	1,000	N	N	N	70
WB154S	34 40 31	111 40 8	7	7.0	10.0	1.0	2,000	N	N	N	50
WB155S	34 41 34	111 37 28	7	5.0	5.0	.7	2,000	N	N	N	70
WB156S	34 41 32	111 37 27	7	5.0	5.0	1.0	2,000	N	N	N	70
WB157S	34 41 17	111 37 55	7	2.0	3.0	.7	2,000	N	N	N	100
WB158S	34 41 16	111 37 50	7	5.0	5.0	.7	2,000	N	N	N	70
WB159S	34 39 35	111 36 50	7	2.0	2.0	.7	2,000	N	N	N	70
WB160S	34 38 53	111 38 3	7	5.0	5.0	.7	2,000	N	N	N	30
WB161S	34 38 54	111 38 0	7	5.0	5.0	.7	2,000	N	N	N	100
WB162S	34 39 15	111 38 24	7	10.0	10.0	1.0	2,000	N	N	N	70
WB163S	34 39 15	111 38 28	7	10.0	10.0	.5	3,000	N	N	N	50
WB165S	34 38 53	111 37 59	7	7.0	5.0	.7	3,000	N	N	N	50
WB166S	34 40 8	111 36 54	10	5.0	10.0	1.0	3,000	N	N	N	50
WB167S	34 41 6	111 34 26	7	5.0	5.0	1.0	3,000	N	N	N	100
WB168S	34 41 1	111 35 18	10	5.0	5.0	.7	2,000	N	N	N	50

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
WB149S	1,000	1	N	N	30	1,000	150	70	N	<20	200
WB150S	700	1	N	N	30	300	70	20	N	N	100
WB151S	1,000	1	N	N	20	1,000	100	70	N	20	150
WB152S	700	1	N	N	20	100	70	20	N	N	70
WB153S	700	1	N	N	30	700	100	50	N	N	150
WB154S	700	1	N	N	30	700	100	70	N	20	200
WB155S	700	1	N	N	30	500	100	70	N	20	150
WB156S	1,000	1	N	N	50	700	100	100	N	20	100
WB157S	1,000	1	N	N	30	200	100	70	N	<20	70
WB158S	1,000	1	N	N	30	700	100	70	N	20	150
WB159S	700	1	N	N	30	300	100	50	N	<20	100
WB160S	700	N	N	N	50	1,000	100	70	N	20	200
WB161S	1,000	1	N	N	30	1,500	100	50	N	<20	150
WB162S	700	1	N	N	50	1,500	150	70	N	N	200
WB163S	1,000	1	N	N	50	700	100	70	N	N	200
WB165S	1,000	1	N	N	50	1,000	150	70	N	<20	150
WB166S	1,500	1	N	N	50	700	100	100	N	20	100
WB167S	1,000	1	N	N	50	700	100	70	N	20	100
WB168S	700	1	N	N	30	300	150	50	N	N	70

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
WB149S	70	N	20	N	700	150	N	30	N	200	N
WB150S	70	N	10	N	200	100	N	10	N	150	N
WB151S	70	N	15	N	700	150	N	30	N	200	N
WB152S	70	N	10	N	200	100	N	20	N	200	N
WB153S	100	N	15	N	200	200	N	30	N	500	N
WB154S	70	N	20	N	300	200	N	30	N	100	N
WB155S	70	N	15	N	300	300	N	30	N	200	N
WB156S	100	N	20	N	500	300	N	30	N	300	N
WB157S	70	N	15	N	700	200	N	30	N	200	N
WB158S	70	N	15	N	300	150	N	30	N	200	N
WB159S	70	N	15	N	300	150	N	30	N	200	N
WB160S	50	N	20	N	500	200	N	20	N	150	N
WB161S	70	N	15	N	300	200	N	30	N	200	N
WB162S	70	N	20	N	200	300	N	30	N	1,000	N
WB163S	70	N	20	N	500	200	N	30	N	100	N
WB165S	70	N	20	N	500	200	N	30	N	200	N
WB166S	100	N	20	N	500	300	N	30	N	300	N
WB167S	70	N	15	N	300	200	N	30	N	300	N
WB168S	70	N	20	N	700	200	N	30	N	500	N

Table 11. Analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
WB149S	N	110.0	.5	<2	N	1.10
WB150S	<5	30.0	.3	N	N	.05
WB151S	<5	50.0	.6	N	N	.05
WB152S	<5	65.0	.6	N	N	.20
WB153S	5	100.0	.4	N	N	.50
WB154S	<5	100.0	.5	N	N	.50
WB155S	<5	150.0	.5	N	N	.95
WB156S	<5	130.0	.5	N	N	1.50
WB157S	<5	135.0	.5	N	N	.75
WB158S	5	130.0	.1	N	N	.80
WB159S	<5	155.0	.1	N	N	.80
WB160S	<5	150.0	.5	N	N	.80
WB161S	10	130.0	.2	N	N	.70
WB162S	<5	180.0	.6	N	N	.80
WB163S	<5	140.0	.5	N	N	.70
WB165S	<5	125.0	.5	N	N	1.10
WB166S	5	160.0	.5	N	N	.80
WB167S	5	130.0	.7	N	N	1.00
WB168S	<5	130.0	.1	N	N	.60

Table 12. Fisher-K statistics on analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

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

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	LATITUDE	0	0	0	0	0	0	66	0	1.5396789	1.5402947	1
2	LONGITUD	0	0	0	0	0	0	66	0	2.0472716	2.0480003	2
3	S-FE%	0	0	0	0	0	0	66	0	0.0	1.1760913	3
4	S-MG%	0	0	0	0	0	0	66	0	-0.5228787	1.0000000	4
5	S-CA%	0	0	0	0	0	0	66	0	-0.3010300	1.3010300	5
6	S-TI%	0	0	0	0	0	0	66	0	-0.6989700	0.0	6
7	S-MN	0	0	0	2	0	0	64	0	2.6989700	3.6989700	7
8	S-AG	66	0	0	0	0	0	0	0			8
9	S-AS	66	0	0	0	0	0	0	0			9
10	S-AU	66	0	0	0	0	0	0	0			10
11	S-B	0	0	0	0	0	0	66	0	1.4771213	2.0000000	11
12	S-BA	0	0	0	0	0	0	66	0	2.4771213	3.1760913	12
13	S-BE	3	0	0	0	0	0	63	0	0.0	0.0	13
14	S-BI	66	0	0	0	0	0	0	0			14
15	S-CD	66	0	0	0	0	0	0	0			15
16	S-CO	0	0	0	0	0	0	66	0	1.0000000	2.0000000	16
17	S-CR	0	0	0	0	0	0	66	0	2.0000000	3.4771213	17
18	S-CU	0	0	0	0	0	0	66	0	1.6989700	2.3010300	18
19	S-LA	0	0	0	0	0	0	66	0	1.3010300	2.0000000	19
20	S-MO	66	0	0	0	0	0	0	0			20
21	S-NB	20	0	12	0	0	0	34	0	1.3010300	1.4771213	21
22	S-NI	0	0	0	0	0	0	66	0	1.4771213	2.6989700	22
23	S-PB	0	0	0	0	0	0	66	0	1.3010300	2.0000000	23
24	S-SB	66	0	0	0	0	0	0	0			24
25	S-SC	0	0	0	0	0	0	66	0	0.6989700	1.4771213	25
26	S-SN	66	0	0	0	0	0	0	0			26
27	S-SR	0	0	0	0	0	0	66	0	2.0000000	2.8450980	27
28	S-V	0	0	0	0	0	0	66	0	1.6989700	2.4771213	28
29	S-W	66	0	0	0	0	0	0	0			29
30	S-Y	0	0	0	0	0	0	66	0	1.0000000	1.6989700	30
31	S-ZN	66	0	0	0	0	0	0	0			31
32	S-ZR	0	0	0	0	0	0	66	0	2.0000000	3.0000000	32
33	S-TH	66	0	0	0	0	0	0	0			33
34	AA-AS-P	4	0	32	0	0	0	30	0	0.6989700	1.1760913	34
35	AA-ZN-P	0	0	0	0	0	0	66	0	-0.2218487	2.3010300	35
36	AA-CD-P	3	0	0	0	0	0	63	0	-1.0000000	-0.1549020	36
37	AA-BI-P	49	0	15	0	0	0	2	0	0.3010300	0.3010300	37
38	AA-SB-P	60	0	0	0	0	0	6	0	0.0	0.3010300	38
39	U-INST	0	0	0	0	0	0	66	0	-1.3010300	0.4149733	39

Table 12. Fisher-K statistics on analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	LATITUDE	1.5400656	1.4394736D-04	2.0720842D-08	-2.9012230D-12	-0.9726801	4.4579051D-16	1.0382837	1
2	LONGITUD	2.0477067	2.0364605D-04	4.1471712D-08	-4.0779275D-12	-0.4828492	-1.5326326D-15	-0.8911158	2
3	S-FE%	0.7711129	0.2451239	0.0600857	-0.0178293	-1.2105321	0.0029245	0.8100381	3
4	S-MG%	0.5175537	0.3728751	0.1390359	-0.0235413	-0.4540879	-0.0079053	-0.4089434	4
5	S-CA%	0.4997431	0.4228461	0.1787988	-0.0269486	-0.3564423	-0.0289035	-0.9041088	5
6	S-TI%	-0.1391640	0.1760738	0.0310020	-0.0060577	-1.1097443	9.3488113D-04	0.9726969	6
7	S-MN	3.2427057	0.2343441	0.0549172	-0.0034405	-0.2673403	8.4306941D-04	0.2795421	7
8	S-AG								8
9	S-AS								9
10	S-AU								10
11	S-B	1.7626391	0.1471594	0.0216559	-0.0016793	-0.5269499	-6.2273286D-05	-0.1327851	11
12	S-BA	2.9248162	0.1327516	0.0176230	-0.0023591	-1.0083929	8.1422422D-04	2.6217156	12
13	S-BE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	S-BI								14
15	S-CD								15
16	S-CO	1.5177740	0.2226773	0.0495852	7.4747173D-04	0.0676966	0.0011907	0.4842849	16
17	S-CR	2.6796454	0.2985934	0.0891580	-0.0032842	-0.1233657	9.0109744D-04	0.1133577	17
18	S-CU	2.0138827	0.1255031	0.0157510	-5.6180615D-05	-0.0284200	8.1880268D-05	0.3300365	18
19	S-LA	1.7061878	0.2184661	0.0477274	-0.0112549	-1.0794210	-6.1305300D-04	-0.2691299	19
20	S-MO								20
21	S-NB	1.3321049	0.0681390	0.0046429	5.6208563D-04	1.7767016	2.6413581D-05	1.2253024	21
22	S-NI	2.0853170	0.2300566	0.0529260	-4.0872584D-04	-0.0335682	0.0013470	0.4808850	22
23	S-PB	1.8252990	0.1347952	0.0181697	-0.0053365	-2.1788753	0.0021748	6.5875722	23
24	S-SB								24
25	S-SC	1.2099652	0.1459125	0.0212905	-0.0024126	-0.7766095	7.7894652D-04	1.7184513	25
26	S-SN								26
27	S-SR	2.5412242	0.1884691	0.0355206	-0.0018331	-0.2738273	7.7305298D-04	0.6127014	27
28	S-V	2.2320174	0.1569990	0.0246487	-0.0027891	-0.7207418	5.4038669D-04	0.8894408	28
29	S-W								29
30	S-Y	1.4335014	0.1287278	0.0165708	-0.0033664	-1.5781302	0.0012411	4.5196460	30
31	S-ZN								31
32	S-ZR	2.4059147	0.2241533	0.0502447	0.0081407	0.7228114	2.8379969D-04	0.1124169	32
33	S-TH								33
34	AA-AS-P	0.7249084	0.1013835	0.0102786	0.0041444	3.9770192	0.0016487	15.605262	34
35	AA-ZN-P	1.9658580	0.3563877	0.1270122	-0.1711762	-3.7815987	0.3428064	21.249967	35
36	AA-CD-P	-0.5136371	0.2938401	0.0863420	-0.0168734	-0.6650738	-0.0077643	-1.0415013	36
37	AA-BI-P	0.3010300	0.0	0.0					37
38	AA-SB-P	0.0501717	0.1228950	0.0151032	0.0045465	2.4494897	0.0013686	6.0000000	38
39	U-INST	-0.2669718	0.3483517	0.1213489	-0.0505450	-1.1957056	0.0255376	1.7342372	39

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

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

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

FREQUENCY TABLE FOR VARIAILE 3 (S-FE%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.02	0.02
-8.400E-02 - 8.267E-02	1	1	1.52	1.52	0.15	4.90
8.267E-02 - 2.493E-01	0	1	0.00	1.52	0.93	0.93
2.493E-01 - 4.160E-01	8	9	12.12	13.64	3.77	4.76
4.160E-01 - 5.827E-01	4	13	6.06	19.70	9.72	3.37
5.827E-01 - 7.493E-01	7	20	10.61	30.30	16.08	5.12
7.493E-01 - 9.160E-01	29	49	43.94	74.24	17.04	8.40
9.160E-01 - 1.083E+00	16	65	24.24	98.48	11.57	1.69
1.083E+00 - 1.249E+00	1	66	1.52	100.00	6.72	4.87
G	0	66	0.00	100.00	0.02	0.02
H	0	66				
B	0	66				

TOTALS LESS H AND B 66

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

```
9.985E-01 XX
1.466E+00
2.151E+00 XXXXXXXXXXXX
3.157E+00 XXXXXX
4.634E+00 XXXXXXXXXXX
6.802E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 5.90354E+00
GEOMETRIC DEVIATION = 1.75843E+00
VARIANCE OF LOGS = 6.00857E-02

PERCENT TABL FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	9.212103E-01	8.340851E+00
90.00	1.024336E+00	1.057634E+01
95.00	1.058711E+00	1.144750E+01
98.00	1.079336E+00	1.200427E+01

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.10	0.10
-5.840E-01	-4.173E-01	1	1	1.52	1.52	0.30	1.65
-4.173E-01	-2.507E-01	1	2	1.52	3.03	0.90	0.01
-2.507E-01	-8.400E-02	1	3	1.52	4.55	2.22	0.67
-8.400E-02	8.267E-02	7	10	10.61	15.15	4.51	1.37
8.267E-02	2.493E-01	0	10	0.00	15.15	7.54	7.54
2.493E-01	4.160E-01	21	31	31.82	46.97	10.34	10.98
4.160E-01	5.827E-01	0	31	0.00	46.97	11.66	11.66
5.827E-01	7.493E-01	19	50	28.79	75.76	10.80	6.23
7.493E-01	9.160E-01	3	53	4.55	80.30	8.22	3.31
9.160E-01	1.083E+00	13	66	19.70	100.00	9.41	1.37
	G	0	66	0.00	100.00	0.10	0.10
	H	0	66				
	B	0	66				

TOTALS LESS H AND B 66

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

```
3.157E-01 XX
4.634E-01 XX
6.802E-01 XX
9.985E-01 XXXXXXXXXX
1.466E+00
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+00
4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
6.803E+00 XXXXX
9.985E+00 XXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 3.00000E-01
MAXIMUM ANTILOG      = 1.00000E+01
GEOMETRIC MEAN       = 3.29271E+00
GEOMETRIC DEVIATION  = 2.35980E+00
VARIANCE OF LOGS     = 1.39036E-01
```

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	7.405640E-01	5.502551E+00
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.00	1.00
-4.170E-01	-2.503E-01	4	4	6.06	6.06	1.52	4.07
-2.503E-01	-8.367E-02	2	6	3.03	9.09	3.02	0.35
-8.367E-02	8.300E-02	12	18	18.18	27.27	5.17	9.02
8.300E-02	2.497E-01	0	18	0.00	27.27	7.59	7.59
2.497E-01	4.163E-01	8	26	12.12	39.39	9.55	0.25
4.163E-01	5.830E-01	1	27	1.52	40.91	10.31	8.41
5.830E-01	7.497E-01	25	52	37.88	78.79	9.55	24.99
7.497E-01	9.163E-01	3	55	4.55	83.33	7.59	2.77
9.163E-01	1.083E+00	9	64	13.64	96.97	5.17	2.83
1.083E+00	1.250E+00	0	64	0.00	96.97	3.02	3.02
1.250E+00	1.416E+00	2	66	3.03	100.00	2.51	0.10
G		0	66	0.00	100.00	1.00	1.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
4.638E-01 XXXXXX
6.808E-01 XXX
9.992E-01 XXXXXXXXXXXXXXXXX
1.467E+00
2.153E+00 XXXXXXXXXXX
3.160E+00 XX
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXX
9.992E+00 XXXXXXXXXXXXX
1.467E+01
2.153E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E-01
MAXIMUM ANTILOG      = 2.00000E+01
GEOMETRIC MEAN       = 3.16041E+00
GEOMETRIC DEVIATION  = 2.64756E+00
VARIANCE OF LOGS     = 1.78729E-01
```

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE.
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
			90.00	9.978176E-01	9.949875E+00
75.00	7.330023E-01	5.407572E+00	95.00	1.058929E+00	1.145325E+01
			98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.05	0.05
-7.500E-01	-5.833E-01	2	2	3.03	3.03	0.78	1.89
-5.833E-01	-4.167E-01	6	8	9.09	12.12	5.65	0.02
-4.167E-01	-2.500E-01	12	20	18.18	30.30	17.60	1.78
-2.500E-01	-8.333E-02	28	48	42.42	72.73	23.84	0.73
-8.333E-02	8.333E-02	18	66	27.27	100.00	18.08	0.00
G		0	66	0.00	100.00	0.05	0.05
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
 2.154E-01 XXX
 3.162E-01 XXXXXXXXX
 4.642E-01 XXXXXXXXXXXXXXXXX
 6.813E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E-01
MAXIMUM ANTILOG	=	1.00000E+00
GEOMETRIC MEAN	=	6.46898E-01
GEOMETRIC DEVIATION	=	1.49994E+00
VARIANCE OF LOGS	=	3.10020E-02

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.19	0.19
2.583E+00 -	2.750E+00	3	3	4.55	4.55	1.05	3.61
2.750E+00 -	2.916E+00	2	5	3.03	7.58	4.13	1.10
2.916E+00 -	3.083E+00	12	17	18.18	25.76	10.35	0.26
3.083E+00 -	3.250E+00	5	22	7.58	33.33	16.53	8.04
3.250E+00 -	3.416E+00	30	52	45.45	78.79	16.84	10.28
3.416E+00 -	3.583E+00	7	59	10.61	89.39	10.94	1.42
3.583E+00 -	3.750E+00	5	64	7.58	96.97	5.96	0.15
G		2	66	3.03	100.00	0.19	17.33
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
4.638E+02 XXXXX
6.809E+02 XXX
9.992E+02 XXXXXXXXXXXXXXXXX
1.467E+03 XXXXXXXX
2.153E+03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+03 XXXXXXXXXXX
4.638E+03 XXXXXXXX
```

100

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+02
MAXIMUM ANTILOG = 5.00000E+03
GEOMETRIC MEAN = 1.74866E+03
GEOMETRIC DEVIATION = 1.71532E+00
VARIANCE OF LOGS = 5.49174E-02

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	3.402446E+00	2.526074E+03
90.00	3.596335E+00	3.947620E+03
95.00	3.706336E+00	5.085523E+03
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.61	0.61
1.416E+00 -	1.583E+00	9	9	13.64	13.64	6.69	0.79
1.583E+00 -	1.749E+00	22	31	33.33	46.97	23.32	0.07
1.749E+00 -	1.916E+00	28	59	42.42	89.39	25.57	0.23
1.916E+00 -	2.083E+00	7	66	10.61	100.00	9.81	0.81
G		0	66	0.00	100.00	0.61	0.61
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
3.157E+01 XXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 5.78947E+01
GEOMETRIC DEVIATION = 1.40333E+00
VARIANCE OF LOGS = 2.16557E-02

PERCENT TABLE FOR VARIABLE 11 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.859453E+00	7.235245E+01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
2.416E+00 -	2.583E+00	2	2	3.03	3.03	0.32	8.66
2.583E+00 -	2.749E+00	3	5	4.55	7.58	5.82	1.36
2.749E+00 -	2.916E+00	24	29	36.36	43.94	25.11	0.05
2.916E+00 -	3.083E+00	33	62	50.00	93.94	27.01	1.33
3.083E+00 -	3.249E+00	4	66	6.06	100.00	7.74	1.80
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
3.157E+02 XXX
4.634E+02 XXXXX
6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+03 XXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 3.00000E+02
MAXIMUM ANTILOG      = 1.50000E+03
GEOMETRIC MEAN       = 8.41039E+02
GEOMETRIC DEVIATION  = 1.35752E+00
VARIANCE OF LOGS     = 1.76219E-02
```

PERCENT TABLE FOR VARIABLE 12 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	3.019537E+00	1.046012E+03
90.00	3.069537E+00	1.173645E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.23	0.23
9.160E-01 -	1.083E+00	3	3	4.55	4.55	1.45	1.67
1.083E+00 -	1.249E+00	2	5	3.03	7.58	5.85	2.53
1.249E+00 -	1.416E+00	9	14	13.64	21.21	13.85	1.70
1.416E+00 -	1.583E+00	31	45	46.97	68.18	19.19	7.26
1.583E+00 -	1.749E+00	14	59	21.21	89.39	15.59	0.16
1.749E+00 -	1.916E+00	3	62	4.55	93.94	7.41	2.63
1.916E+00 -	2.083E+00	4	66	6.06	100.00	2.43	1.01
G		0	66	0.00	100.00	0.23	0.23
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
 9.985E+00 XXXXX
 1.466E+01 XXX
 2.151E+01 XXXXXXXXXXXXX
 3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.634E+01 XXXXXXXXXXXXXXXXXXXX
 6.802E+01 XXXXX
 9.985E+01 XXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 3.29438E+01
GEOMETRIC DEVIATION = 1.66985E+00
VARIANCE OF LOGS = 4.95850E-02

PERCENT TABLE FOR VARIABLE 16 (S-CO) BY LINEAR INTERPOLATI(I FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.636240E+00	4.327525E+01
90.00	1.771557E+00	5.909589E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.35	0.35
1.916E+00 -	2.083E+00	2	2	3.03	3.03	1.16	0.62
2.083E+00 -	2.249E+00	3	5	4.55	7.58	3.43	0.05
2.249E+00 -	2.416E+00	7	12	10.61	18.18	7.51	0.04
2.416E+00 -	2.583E+00	11	23	16.67	34.85	12.15	0.11
2.583E+00 -	2.749E+00	14	37	21.21	56.06	14.49	0.02
2.749E+00 -	2.916E+00	19	56	28.79	84.85	12.77	3.04
2.916E+00 -	3.083E+00	6	62	9.09	93.94	8.30	0.64
3.083E+00 -	3.249E+00	2	64	3.03	96.97	3.98	0.99
3.249E+00 -	3.416E+00	1	65	1.52	98.48	1.41	0.12
3.416E+00 -	3.583E+00	1	66	1.52	100.00	0.45	0.67
G		0	66	0.00	100.00	0.35	0.35
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 17 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXX
1.466E+02 XXXXX
2.151E+02 XXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+02 XXXXXXXXX
1.466E+03 XXX
2.151E+03 XX
3.157E+03 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 3.00000E+03
GEOMETRIC MEAN = 4.78240E+02
GEOMETRIC DEVIATION = 1.98880E+00
VARIANCE OF LOGS = 8.91572E-02

PERCENT TABLE FOR VARIABLE 17 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
			95.00	3.141002E+00	1.383574E+03
75.00	2.858984E+00	7.227438E+02	98.00	3.362670E+00	2.304993E+03
90.00	3.010447E+00	1.024346E+03			

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.02	0.02
1.583E+00 -	1.750E+00	2	2	3.03	3.03	1.14	0.64
1.750E+00 -	1.916E+00	10	12	15.15	18.18	13.26	0.80
1.916E+00 -	2.083E+00	38	50	57.58	75.76	32.38	0.98
2.083E+00 -	2.250E+00	14	64	21.21	96.97	17.21	0.60
2.250E+00 -	2.416E+00	2	66	3.03	100.00	1.99	0.00
G		0	66	0.00	100.00	0.02	0.02
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
4.638E+01 XXX
6.808E+01 XXXXXXXXXXXXXX
9.992E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXXXXX
2.153E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+01
MAXIMUM ANTILOG      = 2.00000E+02
GEOMETRIC MEAN       = 1.03248E+02
GEOMETRIC DEVIATION  = 1.33507E+00
VARIANCE OF LOGS     = 1.57509E-02
```

PERCENT TABLE FOR VARIABLE 18 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.080808E+00	1.204503E+02
90.00	2.194906E+00	1.566412E+02
95.00	2.234192E+00	1.714714E+02
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.21	1.21
1.250E+00 -	1.417E+00	13	13	19.70	19.70	4.89	13.43
1.417E+00 -	1.583E+00	1	14	1.52	21.21	12.83	10.91
1.583E+00 -	1.750E+00	15	29	22.73	43.94	19.31	0.96
1.750E+00 -	1.917E+00	34	63	51.52	95.45	16.69	17.96
1.917E+00 -	2.083E+00	3	66	4.55	100.00	11.07	5.88
G		0	66	0.00	100.00	1.21	1.21
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
2.154E+01 XXXXXXXXXXXXXXXXXX
3.162E+01 XX
4.642E+01 XXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 5.08379E+01
GEOMETRIC DEVIATION = 1.65373E+00
VARIANCE OF LOGS = 4.77271E-02

PERCENT TABLE FOR VARIABLE 19 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.850491E+00	7.087473E+01
90.00	1.899021E+00	7.925395E+01
95.00	1.915197E+00	8.226165E+01
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 21 (S-NB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		20	20	30.30	30.30		
L		12	32	18.18	48.48		
T		0	32	0.00	48.48	6.23	6.23
1.250E+00 -	1.417E+00	28	60	42.42	90.91	58.09	15.59
1.417E+00 -	1.583E+00	6	66	9.09	100.00	1.68	11.15
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 3.00000E+01
GEOMETRIC MEAN = 2.14835E+01
GEOMETRIC DEVIATION = 1.16987E+00
VARIANCE OF LOGS = 4.64285E-03

PERCENT TABLE FOR VARIABLE 21 (S-NB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.12	0.12
1.416E+00 -	1.583E+00	1	1	1.52	1.52	0.83	0.03
1.583E+00 -	1.749E+00	5	6	7.58	9.09	3.80	0.38
1.749E+00 -	1.916E+00	10	16	15.15	24.24	10.48	0.02
1.916E+00 -	2.083E+00	15	31	22.73	46.97	17.46	0.35
2.083E+00 -	2.249E+00	17	48	25.76	72.73	17.60	0.02
2.249E+00 -	2.416E+00	16	64	24.24	96.97	10.73	2.58
2.416E+00 -	2.583E+00	0	64	0.00	96.97	3.96	3.96
2.583E+00 -	2.749E+00	2	66	3.03	100.00	1.01	0.97
G		0	66	0.00	100.00	0.12	0.12
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
3.157E+01 XX
4.634E+01 XXXXXXXX
6.802E+01 XXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+02 XXXXXXXXXXXXXXXXXXXXXX
3.157E+02
4.634E+02 XXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 5.00000E+02
GEOMETRIC MEAN = 1.21707E+02
GEOMETRIC DEVIATION = 1.69846E+00
VARIANCE OF LOGS = 5.29257E-02

PERCENT TABLE FOR VARIABLE 22 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.264960E+00	1.840603E+02
90.00	2.368085E+00	2.333916E+02
95.00	2.402460E+00	2.526157E+02
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.00	0.00
1.250E+00 - 1.417E+00	2	2	3.03	3.03	0.08	45.90
1.417E+00 - 1.583E+00	2	4	3.03	6.06	2.32	0.04
1.583E+00 - 1.750E+00	6	10	9.09	15.15	16.62	6.79
1.750E+00 - 1.917E+00	47	57	71.21	86.36	30.55	8.86
1.917E+00 - 2.083E+00	9	66	13.64	100.00	16.43	3.36
G	0	66	0.00	100.00	0.00	0.00
H	0	66				
B	0	66				

TOTALS LESS H AND B 66

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

```
2.154E+01 XXX
3.162E+01 XXX
4.642E+01 XXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 6.68804E+01
GEOMETRIC DEVIATION = 1.36393E+00
VARIANCE OF LOGS = 1.81691E-02

PERCENT TABLE FOR VARIABLE 23 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.890072E+00	7.763762E+01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
5.830E-01 -	7.497E-01	1	1	1.52	1.52	0.05	16.91
7.497E-01 -	9.163E-01	1	2	1.52	3.03	1.40	0.12
9.163E-01 -	1.083E+00	9	11	13.64	16.67	11.22	0.44
1.083E+00 -	1.250E+00	25	36	37.88	54.55	27.40	0.21
1.250E+00 -	1.416E+00	25	61	37.88	92.42	20.73	0.88
1.416E+00 -	1.583E+00	5	66	7.58	100.00	5.19	0.01
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
4.638E+00 XX
6.808E+00 XX
9.992E+00 XXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+00
MAXIMUM ANTILOG      =  3.00000E+01
GEOMETRIC MEAN       =  1.62168E+01
GEOMETRIC DEVIATION  =  1.39931E+00
VARIANCE OF LOGS     =  2.12905E-02
```

PERCENT TABLE FOR VARIABLE 25 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.339668E+00	2.186091E+01
90.00	1.405668E+00	2.544886E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.03	0.03
1.916E+00 -	2.083E+00	2	2	3.03	3.03	0.46	5.08
2.083E+00 -	2.249E+00	0	2	0.00	3.03	3.51	3.51
2.249E+00 -	2.416E+00	7	9	10.61	13.64	12.70	2.56
2.416E+00 -	2.583E+00	34	43	51.52	65.15	22.03	6.50
2.583E+00 -	2.749E+00	14	57	21.21	86.36	18.36	1.04
2.749E+00 -	2.916E+00	9	66	13.64	100.00	8.89	0.00
G		0	66	0.00	100.00	0.03	0.03
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
9.985E+01 XXX
1.466E+02
2.151E+02 XXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 3.47716E+02
GEOMETRIC DEVIATION = 1.54336E+00
VARIANCE OF LOGS = 3.55203E-02

PERCENT TABLE FOR VARIABLE 27 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.660049E+00	4.571399E+02
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
1.583E+00 -	1.750E+00	1	1	1.52	1.52	0.07	12.58
1.750E+00 -	1.916E+00	0	1	0.00	1.52	1.39	1.39
1.916E+00 -	2.083E+00	12	13	18.18	19.70	9.84	0.47
2.083E+00 -	2.250E+00	14	27	21.21	40.91	24.65	4.60
2.250E+00 -	2.416E+00	31	58	46.97	87.88	22.11	3.57
2.416E+00 -	2.583E+00	8	66	12.12	100.00	7.93	0.00
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

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

```
4.638E+01 XX
6.808E+01
9.992E+01 XXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+01
MAXIMUM ANTILOG	=	3.00000E+02
GEOMETRIC MEAN	=	1.70615E+02
GEOMETRIC DEVIATION	=	1.43548E+00
VARIANCE OF LOGS	=	2.46485E-02

PERCENT TABLE FOR VARIABLE 28 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW TH LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.370636E+00	2.347664E+02
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.00	0.00
9.160E-01 - 1.083E+00	3	3	4.55	4.55	0.21	37.06
1.083E+00 - 1.249E+00	0	3	0.00	4.55	4.82	4.82
1.249E+00 - 1.416E+00	12	15	18.18	22.73	24.40	6.30
1.416E+00 - 1.583E+00	48	63	72.73	95.45	28.43	13.47
1.583E+00 - 1.749E+00	3	66	4.55	100.00	8.14	3.24
G	0	66	0.00	100.00	0.00	0.00
H	0	66				
B	0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 30 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXX
1.466E+01
2.151E+01 XXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXX
```

HE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 2.71332E+01
GEOMETRIC DEVIATION = 1.34502E+00
VARIANCE OF LOGS = 1.65707E-02

PERCENT TABLE FOR VARIABLE 30 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.535793E+00	3.433942E+01
90.00	1.570168E+00	3.716790E+01
95.00	1.581626E+00	3.816158E+01
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 32 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.95	0.95
1.916E+00 -	2.083E+00	3	3	4.55	4.55	3.97	0.24
2.083E+00 -	2.249E+00	7	10	10.61	15.15	11.07	1.50
2.249E+00 -	2.416E+00	31	41	46.97	62.12	18.18	9.03
2.416E+00 -	2.583E+00	9	50	13.64	75.76	17.61	4.21
2.583E+00 -	2.749E+00	13	63	19.70	95.45	10.06	0.86
2.749E+00 -	2.916E+00	1	64	1.52	96.97	3.39	1.68
2.916E+00 -	3.083E+00	2	66	3.03	100.00	0.75	2.06
G		0	66	0.00	100.00	0.95	0.95
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 32 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXXXX
1.466E+02 XXXXXXXXXX
2.151E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXX
6.802E+02 XX
9.985E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 2.54633E+02
GEOMETRIC DEVIATION = 1.67553E+00
VARIANCE OF LOGS = 5.02446E-02

PERCENT TABLE FOR VARIABLE 32 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.573409E+00	3.744628E+02
90.00	2.703181E+00	5.048717E+02
95.00	2.745489E+00	5.565303E+02
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 34 (AA-AS-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		4	4	6.06	6.06		
L		32	36	48.48	54.55		
T		0	36	0.00	54.55	2.11	2.11
5.830E-01 -	7.497E-01	28	64	42.42	96.97	44.99	6.42
7.497E-01 -	9.163E-01	0	64	0.00	96.97	18.80	18.80
9.163E-01 -	1.083E+00	1	65	1.52	98.48	0.00	0.00
1.083E+00 -	1.250E+00	1	66	1.52	100.00	0.09	8.65
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 34 (AA-AS-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00
9.992E+00 XX
1.467E+01 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+00
MAXIMUM ANTILOG	=	1.50000E+01
GEOMETRIC MEAN	=	5.30772E+00
GEOMETRIC DEVIATION	=	1.26294E+00
VARIANCE OF LOGS	=	1.02786E-02

PERCENT TABLE FOR VARIABLE 34 (AA-AS-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	9.763342E-01	9.469656E+00

Table 13. Graphical Analysis of analytical data for stream sediments of the Mat Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 35 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.00	0.00
-2.500E-01	-8.333E-02	1	1	1.52	1.52	0.00	0.00
-8.333E-02	8.333E-02	0	1	0.00	1.52	0.00	0.00
8.333E-02	2.500E-01	0	1	0.00	1.52	0.00	0.00
2.500E-01	4.167E-01	0	1	0.00	1.52	0.00	0.00
4.167E-01	5.833E-01	0	1	0.00	1.52	0.00	0.00
5.833E-01	7.500E-01	0	1	0.00	1.52	0.02	0.02
7.500E-01	9.167E-01	0	1	0.00	1.52	0.09	0.09
9.167E-01	1.083E+00	0	1	0.00	1.52	0.33	0.33
1.083E+00	1.250E+00	0	1	0.00	1.52	1.03	1.03
1.250E+00	1.417E+00	1	2	1.52	3.03	2.60	0.98
1.417E+00	1.583E+00	3	5	4.55	7.58	5.27	0.98
1.583E+00	1.750E+00	8	13	12.12	19.70	8.63	0.05
1.750E+00	1.917E+00	8	21	12.12	31.82	11.40	1.01
1.917E+00	2.083E+00	14	35	21.21	53.03	12.15	0.28
2.083E+00	2.250E+00	25	60	37.88	90.91	10.44	20.30
2.250E+00	2.417E+00	6	66	9.09	100.00	14.03	4.60
	G	0	66	0.00	100.00	0.00	0.00
	H	0	66				
	B	0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 35 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XX
1.000E+00
1.468E+00
2.154E+00
3.162E+00
4.642E+00
6.813E+00
1.000E+01
1.468E+01
2.154E+01 XX
3.162E+01 XXXXX
4.642E+01 XXXXXXXXXXX
6.813E+01 XXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+02 XXXXXXXXX
```

PERCENT TABLE FOR VARIABLE 35 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.180005E+00	1.513578E+02
90.00	2.246005E+00	1.761996E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 6.00000E-01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 9.24396E+01
GEOMETRIC DEVIATION = 2.27189E+00
VARIANCE OF LOGS = 1.27012E-01

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 36 (AA-CD-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	3	3	4.55	4.55		
	L	0	3	0.00	4.55		
	T	0	3	0.00	4.55	2.37	2.37
-1.084E+00	-9.173E-01	13	16	19.70	24.24	4.57	15.57
-9.173E-01	-7.507E-01	0	16	0.00	24.24	8.91	8.91
-7.507E-01	-5.840E-01	8	24	12.12	36.36	12.99	1.92
-5.840E-01	-4.173E-01	9	33	13.64	50.00	14.14	1.87
-4.173E-01	-2.507E-01	20	53	30.30	80.30	11.49	6.31
-2.507E-01	-8.400E-02	13	66	19.70	100.00	11.53	0.19
	G	0	66	0.00	100.00	0.00	0.00
	H	0	66				
	B	0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 36 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-02 XXXXXXXXXXXXXXXXXXX
 1.466E-01
 2.151E-01 XXXXXXXXXXX
 3.157E-01 XXXXXXXXXXXXX
 4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.802E-01 XXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E-01
MAXIMUM ANTILOG	=	7.00000E-01
GEOMETRIC MEAN	=	3.06452E-01
GEOMETRIC DEVIATION	=	1.96716E+00
VARIANCE OF LOGS	=	8.63420E-02

PERCENT TABLE FOR VARIABLE 36 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	-2.798317E-01	5.250108E-01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 38 (AA-SB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		60	60	90.91	90.91		
L		0	60	0.00	90.91		
T		0	60	0.00	90.91	0.56	0.56
-8.400E-02 -	8.267E-02	5	65	7.58	98.48	64.29	54.68
8.267E-02 -	2.493E-01	0	65	0.00	98.48	0.00	0.00
2.493E-01 -	4.160E-01	1	66	1.52	100.00	1.16	0.02
G		0	66	0.00	100.00	0.00	0.00
H		0	66				
B		0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 38 (AA-SB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E-01 XXXXXXXX
1.466E+00
2.151E+00 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+00
MAXIMUM ANTILOG	=	2.00000E+00
GEOMETRIC MEAN	=	1.12246E+00
GEOMETRIC DEVIATION	=	1.32707E+00
VARIANCE OF LOGS	=	1.51032E-02

PERCENT TABLE FOR VARIABLE 38 (AA-SB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 13. Graphical Analysis of analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 39 (U-INST)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.03	0.03
-1.417E+00	-1.250E+00	3	3	4.55	4.55	0.13	65.95
-1.250E+00	-1.084E+00	0	3	0.00	4.55	0.47	0.47
-1.084E+00	-9.170E-01	0	3	0.00	4.55	1.42	1.42
-9.170E-01	-7.503E-01	2	5	3.03	7.58	3.41	0.58
-7.503E-01	-5.837E-01	7	12	10.61	18.18	6.53	0.03
-5.837E-01	-4.170E-01	5	17	7.58	25.76	10.01	2.51
-4.170E-01	-2.503E-01	12	29	18.18	43.94	12.26	0.01
-2.503E-01	-8.366E-02	17	46	25.76	69.70	11.98	2.10
-8.366E-02	8.300E-02	16	62	24.24	93.94	9.36	4.71
8.300E-02	2.497E-01	3	65	4.55	98.48	5.84	1.38
2.497E-01	4.163E-01	1	66	1.52	100.00	4.56	2.78
	G	0	66	0.00	100.00	0.03	0.03
	H	0	66				
	B	0	66				

TOTALS LESS H AND B 66

HISTOGRAM FOR VARIABLE 39 (U-INST)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-02 XXXXX
6.808E-02
9.992E-02
1.467E-01 XXX
2.153E-01 XXXXXXXXXX
3.160E-01 XXXXXXXX
4.638E-01 XXXXXXXXXXXXXXXXX
6.808E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXX
1.467E+00 XXXXX
2.153E+00 XX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-02
MAXIMUM ANTILOG = 2.60000E+00
GEOMETRIC MEAN = 5.40789E-01
GEOMETRIC DEVIATION = 2.23024E+00
VARIANCE OF LOGS = 1.21349E-01

PERCENT TABLE FOR VARIABLE 39 (U-INST) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	-4.720560E-02	8.970041E-01
90.00	5.591961E-02	1.137417E+00
95.00	1.218920E-01	1.324012E+00
98.00	2.318922E-01	1.705659E+00

Table 14. Correlation Analyses for analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -

		1 LATITUDE	2 LONGITUD	3 S-FE%	4 S-MG%	5 S-CA%	6 S-TI%	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1	LATITUDE	0.0116	-0.0829	0.1052	-0.1434	-0.0849	0.0637	-0.0307	**********	**********	**********
2	LONGITUD	64	0.0505	-0.2503	-0.0155	0.1800	-0.2553	-0.5690	**********	**********	**********
3	S-FE%	64	64	2.8695	0.6441	0.3868	0.7845	0.6258	**********	**********	**********
4	S-MG%	64	64	64	3.2740	0.7407	0.6274	0.3975	**********	**********	**********
5	S-CA%	64	64	64	64	4.0887	0.4276	0.1560	**********	**********	**********
6	S-TI%	64	64	64	64	64	0.2344	0.5367	**********	**********	**********
7	S-MN	63	63	63	63	63	63	1102.6176	**********	**********	**********
8	S-AG	0	0	0	0	0	0	0	**********	**********	**********
9	S-AS	0	0	0	0	0	0	0	0	**********	**********
10	S-AU	0	0	0	0	0	0	0	0	0	**********
11	S-B	64	64	64	64	64	64	63	0	0	0
12	S-BA	64	64	64	64	64	64	63	0	0	0
13	S-BE	61	61	61	61	61	61	60	0	0	0
14	S-BI	0	0	0	0	0	0	0	0	0	0
15	S-CD	0	0	0	0	0	0	0	0	0	0
16	S-CO	64	64	64	64	64	64	63	0	0	0
17	S-CR	64	64	64	64	64	64	63	0	0	0
18	S-CU	64	64	64	64	64	64	63	0	0	0
19	S-LA	64	64	64	64	64	64	63	0	0	0
20	S-MO	0	0	0	0	0	0	0	0	0	0
21	S-NB	32	32	32	32	32	32	31	0	0	0
22	S-NI	64	64	64	64	64	64	63	0	0	0
23	S-PB	64	64	64	64	64	64	63	0	0	0
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	64	64	64	64	64	64	63	0	0	0
26	S-SN	0	0	0	0	0	0	0	0	0	0
27	S-SR	64	64	64	64	64	64	63	0	0	0
28	S-V	64	64	64	64	64	64	63	0	0	0
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	64	64	64	64	64	64	63	0	0	0
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	64	64	64	64	64	64	63	0	0	0
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	29	29	29	29	29	29	29	0	0	0
35	AA-ZN-P	64	64	64	64	64	64	63	0	0	0
36	AA-CD-P	61	61	61	61	61	61	60	0	0	0
37	AA-BI-P	2	2	2	2	2	2	2	0	0	0
38	AA-SB-P	6	6	6	6	6	6	6	0	0	0
39	U-INST	64	64	64	64	64	64	63	0	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 14. Correlation Analyses for analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1	LATITUDE	0.0005	-0.0552	**********	**********	**********	-0.0851	-0.2385	0.0385	0.0222	**********
2	LONGITUD	-0.3575	-0.0876	**********	**********	**********	-0.4691	-0.1941	-0.2735	-0.2826	**********
3	S-FE%	0.1289	0.5169	**********	**********	**********	0.6653	0.5678	0.6701	0.6819	**********
4	S-MG%	-0.0555	0.4023	**********	**********	**********	0.6661	0.6521	0.4111	0.4446	**********
5	S-CA%	-0.1107	0.2684	**********	**********	**********	0.3213	0.3696	0.2762	0.3231	**********
6	S-TI%	0.2211	0.4916	**********	**********	**********	0.6718	0.5200	0.5103	0.7155	**********
7	S-MN	0.2684	0.4170	**********	**********	**********	0.7073	0.4065	0.4908	0.5796	**********
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	19.5275	0.1925	**********	**********	**********	0.1099	0.1435	0.0447	0.3041	**********
12	S-BA	64	247.1865	**********	**********	**********	0.3803	0.3071	0.3439	0.5499	**********
13	S-BE	61	61	0.0000	**********	**********	**********	**********	**********	**********	**********
14	S-BI	0	0	0	**********	**********	**********	**********	**********	**********	**********
15	S-CD	0	0	0	0	**********	**********	**********	**********	**********	**********
16	S-CO	64	64	61	0	0	19.8250	0.5539	0.4556	0.4483	**********
17	S-CR	64	64	61	0	0	64	468.4748	0.5279	0.4283	**********
18	S-CU	64	64	61	0	0	64	64	29.4354	0.4344	**********
19	S-LA	64	64	61	0	0	64	64	64	21.8740	**********
20	S-MO	0	0	0	0	0	0	0	0	0	**********
21	S-NB	32	32	30	0	0	32	32	32	32	0
22	S-NI	64	64	61	0	0	64	64	64	64	0
23	S-PB	64	64	61	0	0	64	64	64	64	0
24	S-SB	0	0	0	0	0	0	0	0	0	0
25	S-SC	64	64	61	0	0	64	64	64	64	0
26	S-SN	0	0	0	0	0	0	0	0	0	0
27	S-SR	64	64	61	0	0	64	64	64	64	0
28	S-V	64	64	61	0	0	64	64	64	64	0
29	S-W	0	0	0	0	0	0	0	0	0	0
30	S-Y	64	64	61	0	0	64	64	64	64	0
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	64	64	61	0	0	64	64	64	64	0
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	29	29	28	0	0	29	29	29	29	0
35	AA-ZN-P	64	64	61	0	0	64	64	64	64	0
36	AA-CD-P	61	61	58	0	0	61	61	61	61	0
37	AA-BI-P	2	2	2	0	0	2	2	2	2	0
38	AA-SB-P	6	6	6	0	0	6	6	6	6	0
39	U-INST	64	64	61	0	0	64	64	64	64	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 14. Correlation Analyses for analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1	LATITUDE	0.1305	-0.0860	0.0257	**********	0.0159	**********	0.0148	-0.0235	**********	0.1156
2	LONGITUD	0.0740	-0.1478	-0.2892	**********	-0.2214	**********	0.1527	-0.2500	**********	-0.2396
3	S-FE%	0.2193	0.6155	0.4115	**********	0.7749	**********	0.4384	0.6581	**********	0.6364
4	S-MG%	0.4736	0.6911	0.0163	**********	0.6957	**********	0.3724	0.5667	**********	0.3815
5	S-CA%	0.5483	0.4697	0.0001	**********	0.4733	**********	0.3974	0.4415	**********	0.2119
6	S-TI%	0.2589	0.5176	0.3847	**********	0.7569	**********	0.2947	0.7180	**********	0.6341
7	S-MN	0.1412	0.3837	0.4067	**********	0.5857	**********	0.2456	0.4918	**********	0.5676
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	-0.0384	-0.0597	0.4100	**********	0.0865	**********	-0.0127	0.2065	**********	0.4741
12	S-BA	0.1380	0.2757	0.3853	**********	0.4060	**********	0.5395	0.4144	**********	0.5016
13	S-BE	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	0.1001	0.6348	0.1624	**********	0.7179	**********	0.1594	0.5984	**********	0.3651
17	S-CR	0.3687	0.8499	0.1499	**********	0.5034	**********	0.1679	0.6064	**********	0.2952
18	S-CU	0.0993	0.5490	0.3319	**********	0.5154	**********	0.3316	0.4836	**********	0.4190
19	S-LA	0.2242	0.3188	0.4867	**********	0.6316	**********	0.4180	0.6955	**********	0.6351
20	S-MO	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
21	S-NB	3.6890	0.3142	0.0344	**********	0.2857	**********	0.2389	0.1998	**********	0.2525
22	S-NI	32	83.9393	0.0177	**********	0.5611	**********	0.1982	0.5544	**********	0.2353
23	S-PB	32	64	16.7823	**********	0.2141	**********	0.1598	0.3246	**********	0.4980
24	S-SB	0	0	0	**********	**********	**********	**********	**********	**********	**********
25	S-SC	32	64	64	0	5.4069	**********	0.4478	0.6515	**********	0.6579
26	S-SN	0	0	0	0	0	**********	**********	**********	**********	**********
27	S-SR	32	64	64	0	64	0	164.4420	0.2170	**********	0.4722
28	S-V	32	64	64	0	64	0	64	58.9624	**********	0.4587
29	S-W	0	0	0	0	0	0	0	0	**********	**********
30	S-Y	32	64	64	0	64	0	64	64	0	6.7774
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	32	64	64	0	64	0	64	64	0	64
33	S-TH	0	0	0	0	0	0	0	0	0	0
34	AA-AS-P	15	29	29	0	29	0	29	29	0	29
35	AA-ZN-P	32	64	64	0	64	0	64	64	0	64
36	AA-CD-P	30	61	61	0	61	0	61	61	0	61
37	AA-BI-P	1	2	2	0	2	0	2	2	0	2
38	AA-SB-P	3	6	6	0	6	0	6	6	0	6
39	U-INST	32	64	64	0	64	0	64	64	0	64

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 14. Correlation Analyses for analytical data for stream sediments of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		31 S-ZN	32 S-ZR	33 S-TH	34 AA-AS-P	35 AA-ZN-P	36 AA-CD-P	37 AA-BI-P	38 AA-SB-P	39 U-INST
1	LATITUDE	**********	-0.0350	**********	-0.1174	-0.0769	-0.1000	**********	-0.3361	0.0647
2	LONGITUD	**********	-0.0121	**********	-0.2135	-0.6153	-0.2491	**********	-0.5372	-0.4432
3	S-FE%	**********	-0.0217	**********	-0.0827	0.5004	-0.0323	**********	-0.1348	0.2061
4	S-MG%	**********	-0.1352	**********	-0.1383	0.1946	0.1995	**********	-0.4472	-0.0826
5	S-CA%	**********	-0.1139	**********	-0.1660	0.0402	0.2627	**********	0.2000	-0.1589
6	S-TI%	**********	0.0637	**********	-0.0972	0.5109	0.2236	**********	-0.1504	0.2464
7	S-MN	**********	0.0356	**********	0.3040	0.5415	0.0955	**********	-0.2697	0.2898
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	**********	0.1932	**********	0.1992	0.3566	0.0951	**********	-0.2928	0.3855
12	S-BA	**********	0.0322	**********	0.0897	0.2132	-0.0173	**********	0.794[illegible]	0.1922
13	S-BE	**********	**********	**********	**********	**********	**********	**********	**********	**********
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	**********	-0.0332	**********	0.0505	0.5022	0.2151	**********	0.3071	0.0899
17	S-CR	**********	0.0029	**********	0.0193	0.3494	0.1579	**********	-0.2449	0.1330
18	S-CU	**********	0.1098	**********	-0.0355	0.4783	-0.0297	**********	0.5873	0.2438
19	S-LA	**********	-0.0155	**********	0.1201	0.5813	0.3404	**********	-0.4274	0.4920
20	S-MO	**********	**********	**********	**********	**********	**********	**********	**********	**********
21	S-NB	**********	-0.0336	**********	**********	-0.1758	0.3038	**********	**********	-0.1285
22	S-NI	**********	-0.0277	**********	-0.1463	0.2620	0.0655	**********	0.5138	-0.0575
23	S-PB	**********	0.2473	**********	0.0046	0.3840	0.0855	**********	0.2800	0.2740
24	S-SB	**********	**********	**********	**********	**********	**********	**********	**********	**********
25	S-SC	**********	0.0158	**********	-0.0777	0.4532	0.2067	**********	-0.5477	0.1919
26	S-SN	**********	**********	**********	**********	**********	**********	**********	**********	**********
27	S-SR	**********	-0.0436	**********	-0.1889	0.0753	0.0650	**********	0.4472	0.0033
28	S-V	**********	0.1246	**********	0.1160	0.6094	0.2051	**********	0.0000	0.2315
29	S-W	**********	**********	**********	**********	**********	**********	**********	**********	**********
30	S-Y	**********	0.1610	**********	0.0629	0.4214	0.0919	**********	-0.4472	0.3210
31	S-ZN	**********	**********	**********	**********	**********	**********	**********	**********	**********
32	S-ZR	0	188.4154	**********	-0.0971	0.0446	-0.1720	**********	0.1141	-0.0105
33	S-TH	0	0	**********	**********	**********	**********	**********	**********	**********
34	AA-AS-P	0	29	0	2.0463	0.1960	-0.0680	**********	**********	0.0030
35	AA-ZN-P	0	64	0	29	49.0880	0.2991	**********	-0.0452	0.5415
36	AA-CD-P	0	61	0	29	61	0.1932	**********	**********	0.2672
37	AA-BI-P	0	2	0	1	2	2	0.0000	**********	**********
38	AA-SB-P	0	6	0	4	6	5	1	0.4082	-0.3333
39	U-INST	0	64	0	29	64	61	2	6	0.4284

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 15. Analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day. The following qualifiers are used in reporting spectrographic data; --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.1)	Mg-%-s (.05)	Ca-%-s (.1)	Ti-%-s (.005)	Mn-ppm-s (20)	Ag-ppm-s (1)	As-ppm-s (500)	Au-ppm-s (20)	B-ppm-s (20)
WB101H	34.6969	111.6644	.50	.5	10.0	.20	200	N	N	N	20
WB102H	34.6967	111.6650	.20	.5	1.5	.30	200	N	N	N	20
WB103H	34.6969	111.6661	.50	.5	1.0	.20	200	N	N	N	50
WB105H	34.6917	111.6714	.20	.5	1.0	.50	200	N	N	N	70
WB106H	34.6900	111.6728	1.00	1.0	5.0	.20	300	N	N	N	50
WB107H	34.6856	111.6819	1.00	.5	.5	2.00	200	N	N	N	150
WB108H	34.6814	111.6842	1.50	2.0	2.0	.50	1,000	N	N	N	20
WB121H	34.6653	111.6517	2.00	2.0	5.0	>2.00	1,000	N	N	N	200
WB122H	34.6733	111.6594	1.00	1.0	1.0	>2.00	300	N	N	N	200
WB126H	34.6867	111.5708	1.00	2.0	10.0	2.00	1,000	N	N	N	70
WB127H	34.6850	111.5742	.50	.7	.5	.10	300	N	N	N	20
WB130H	34.6789	111.5881	1.00	1.0	1.5	.70	300	N	N	N	70
WB131H	34.6800	111.5883	1.00	.7	5.0	.20	300	N	N	N	50
WB138H	34.6683	111.6083	.70	.7	5.0	.70	300	N	N	N	20
WB139H	34.6686	111.6075	1.00	1.0	2.0	.50	500	N	N	N	<50
WB140H	34.6742	111.6239	.50	.7	1.0	.50	300	N	N	N	20
WB141H	34.6844	111.6483	1.00	1.0	1.0	.30	300	N	N	N	50
WB142H	34.6847	111.6489	.50	.5	1.5	.15	200	N	N	N	50
WB145H	34.6758	111.6581	.15	.5	.5	.20	150	N	N	N	70
WB149H	34.6722	111.6292	.30	.7	.5	.30	200	N	N	N	50
WB150H	34.6669	111.6328	.50	.7	.5	1.50	200	N	N	N	70
WB154H	34.6753	111.6689	.50	.7	.5	1.50	300	N	N	N	100
WB155H	34.6928	111.6244	1.00	1.0	1.0	.70	300	N	N	N	20
WB160H	34.6481	111.6342	2.00	5.0	10.0	2.00	1,000	N	N	N	50
WB161H	34.6483	111.6333	1.00	1.5	1.5	1.50	300	N	N	N	70
WB165H	34.6481	111.6331	.70	.7	5.0	.70	300	N	N	N	20
WB166H	34.6689	111.6150	.50	.7	2.0	1.00	300	N	N	N	20
WB167H	34.6850	111.5739	1.00	1.0	10.0	1.00	500	N	N	N	20
WB168H	34.6836	111.5883	1.00	.7	2.0	.20	300	N	N	N	20

Table 15. Analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (50)	Be-ppm-s (2)	Bi-ppm-s (20)	Cd-ppm-s (50)	Co-ppm-s (10)	Cr-ppm-s (20)	Cu-ppm-s (10)	La-ppm-s (50)	Mo-ppm-s (10)	Nb-ppm-s (50)	Ni-ppm-s (10)
WB101H	1,500	N	N	N	N	50	<10	N	N	N	10
WB102H	1,500	N	N	N	N	100	10	N	N	N	10
WB103H	1,500	N	N	N	10	150	10	N	N	N	10
WB105H	300	N	N	N	10	50	100	N	N	N	10
WB106H	500	N	N	N	10	200	<10	N	N	N	70
WB107H	500	N	N	N	N	200	10	N	N	N	10
WB108H	5,000	N	N	N	20	500	10	N	N	N	150
WB121H	500	N	N	N	15	700	30	N	N	N	100
WB122H	1,500	N	N	N	10	500	20	20	N	N	10
WB126H	500	N	N	N	10	700	20	150	N	N	150
WB127H	500	N	N	N	N	150	10	N	N	N	50
WB130H	300	N	N	N	15	200	10	50	N	N	10
WB131H	1,000	N	N	N	N	150	10	100	N	N	10
WB138H	10,000	N	N	N	N	200	10	70	N	N	50
WB139H	700	N	N	N	N	200	<20	100	N	N	20
WB140H	300	N	N	N	N	300	<10	N	N	N	50
WB141H	300	N	N	N	10	150	<10	N	N	N	100
WB142H	500	N	N	N	10	100	<10	N	N	N	10
WB145H	500	N	N	N	N	N	<10	N	N	N	10
WB149H	300	N	N	N	10	150	<10	50	N	N	10
WB150H	300	N	N	N	N	150	10	50	N	N	10
WB154H	2,000	N	N	N	N	200	10	N	N	N	10
WB155H	500	N	N	N	N	300	10	N	N	N	100
WB160H	1,000	N	N	N	N	1,000	20	100	N	N	150
WB161H	500	N	N	N	N	500	10	50	N	N	30
WB165H	1,000	N	N	N	N	300	10	50	N	N	50
WB166H	500	N	N	N	N	100	<10	50	N	N	10
WB167H	1,000	N	N	N	N	500	15	200	N	N	100
WB168H	1,500	N	N	N	N	150	10	50	N	N	10

Table 15. Analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

Sample	Pb-ppm-s (20)	Sb-ppm-s (200)	Sc-ppm-s (10)	Sn-ppm-s (20)	Sr-ppm-s (100)	V-ppm-s (20)	W-ppm-s (100)	Y-ppm-s (20)	Zn-ppm-s (500)	Zr-ppm-s (20)	Th-ppm-s (200)
WB101H	30	N	10	N	2,000	50	N	50	N	>2,000	N
WB102H	N	N	10	N	500	70	N	100	N	>2,000	N
WB103H	N	N	10	N	500	70	N	70	N	>2,000	N
WB105H	N	N	10	N	500	70	N	150	N	>2,000	N
WB106H	N	N	10	N	500	70	N	50	N	>2,000	N
WB107H	N	N	50	N	500	150	N	700	N	>2,000	N
WB108H	N	N	10	N	500	100	N	70	N	>2,000	N
WB121H	30	N	50	N	200	200	N	500	N	>2,000	N
WB122H	150	N	70	N	300	150	N	1,000	N	>2,000	N
WB126H	N	N	10	N	500	200	N	200	N	>2,000	N
WB127H	N	N	10	N	200	70	N	20	N	2,000	N
WB130H	N	N	10	N	200	150	N	150	N	>2,000	N
WB131H	N	N	10	N	500	70	N	100	N	>2,000	N
WB138H	N	N	10	N	700	100	N	100	N	>2,000	N
WB139H	N	N	20	N	500	100	N	100	N	>5,000	N
WB140H	N	N	10	N	N	70	N	70	N	>2,000	N
WB141H	N	N	10	N	200	70	N	100	N	>2,000	N
WB142H	N	N	10	N	200	50	N	50	N	>2,000	N
WB145H	N	N	10	N	200	50	N	70	N	>2,000	N
WB149H	N	N	10	N	N	50	N	200	N	>2,000	N
WB150H	N	N	10	N	200	150	N	200	N	>2,000	N
WB154H	N	N	50	N	200	100	N	500	N	>2,000	N
WB155H	N	N	10	N	700	100	N	150	N	>2,000	N
WB160H	N	N	20	N	1,000	300	N	200	N	>5,000	N
WB161H	N	N	10	N	200	150	N	200	N	>2,000	N
WB165H	N	N	10	N	700	70	N	70	N	>2,000	N
WB166H	N	N	10	N	500	70	N	100	N	>2,000	N
WB167H	N	N	10	N	500	100	N	150	N	>2,000	N
WB168H	N	N	10	N	200	70	N	70	N	>2,000	N

Table 16. Fisher-K statistics on analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona

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

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	LATITUDE	0	0	0	0	0	0	29	0	1.5396789	1.5402912	1
2	LONGITUD	0	0	0	0	0	0	29	0	2.0475507	2.0479916	2
3	S-FE%	0	0	0	0	0	0	29	0	-0.8239087	0.3010300	3
4	S-MG%	0	0	0	0	0	0	29	0	-0.3010300	0.6989700	4
5	S-CA%	0	0	0	0	0	0	29	0	-0.3010300	1.0000000	5
6	S-TI%	0	0	0	2	0	0	27	0	-1.0000000	0.3010300	6
7	S-MN	0	0	0	0	0	0	29	0	2.1760913	3.0000000	7
8	S-AG	29	0	0	0	0	0	0	0			8
9	S-AS	29	0	0	0	0	0	0	0			9
10	S-AU	29	0	0	0	0	0	0	0			10
11	S-B	0	0	1	0	0	0	28	0	1.3010300	2.3010300	11
12	S-BA	0	0	0	0	0	0	29	0	2.4771213	4.0000001	12
13	S-BE	29	0	0	0	0	0	0	0			13
14	S-BI	29	0	0	0	0	0	0	0			14
15	S-CD	29	0	0	0	0	0	0	0			15
16	S-CO	18	0	0	0	0	0	11	0	1.0000000	1.3010300	16
17	S-CR	1	0	0	0	0	0	28	0	1.6989700	3.0000000	17
18	S-CU	0	0	9	0	0	0	20	0	1.0000000	2.0000000	18
19	S-LA	15	0	0	0	0	0	14	0	1.3010300	2.3010300	19
20	S-MO	29	0	0	0	0	0	0	0			20
21	S-NB	29	0	0	0	0	0	0	0			21
22	S-NI	0	0	0	0	0	0	29	0	1.0000000	2.1760913	22
23	S-PB	26	0	0	0	0	0	3	0	1.4771213	2.1760913	23
24	S-SB	29	0	0	0	0	0	0	0			24
25	S-SC	0	0	0	0	0	0	29	0	1.0000000	1.8450980	25
26	S-SN	29	0	0	0	0	0	0	0			26
27	S-SR	2	0	0	0	0	0	27	0	2.3010300	3.3010300	27
28	S-V	0	0	0	0	0	0	29	0	1.6989700	2.4771213	28
29	S-W	29	0	0	0	0	0	0	0			29
30	S-Y	0	0	0	0	0	0	29	0	1.3010300	3.0000000	30
31	S-ZN	29	0	0	0	0	0	0	0			31
32	S-ZR	0	0	0	28	0	0	1	0	3.3010300	3.3010300	32
33	S-TH	29	0	0	0	0	0	0	0			33
34	AA-AS-P	0	0	0	0	29	0	0	0			34
35	AA-ZN-P	0	0	0	0	29	0	0	0			35
36	AA-CD-P	0	0	0	0	29	0	0	0			36
37	AA-BI-P	0	0	0	0	29	0	0	0			37
38	AA-SB-P	0	0	0	0	29	0	0	0			38
39	U-INST	0	0	0	0	29	0	0	0			39

Table 16. Fisher-K statistics on analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	LATITUDE	1.5400504	1.7203197D-04	2.9594998D-08	-3.8740860D-12	-0.7609249	2.1321360D-16	0.2434323	1
2	LONGITUD	2.0477939	1.3399350D-04	1.7954258D-08	-9.6126591D-13	-0.3995695	-3.1033696D-16	-0.9627169	2
3	S-FE%	-0.1615386	0.2776037	0.0770638	-0.0146891	-0.6866234	0.0018853	0.3174583	3
4	S-MG%	-0.0647613	0.2348310	0.0551456	0.0195071	1.5063521	0.0083963	2.7609866	4
5	S-CA%	0.2619709	0.4425085	0.1958138	0.0323891	0.3737956	-0.0399258	-1.0412805	5
6	S-TI%	-0.2955085	0.3870967	0.1498439	0.0036447	0.0628347	-0.0256664	-1.1431081	6
7	S-MN	2.5055851	0.2320122	0.0538297	0.0150880	1.2080855	0.0021367	0.7373864	7
8	S-AG								8
9	S-AS								9
10	S-AU								10
11	S-B	1.6447450	0.3238041	0.1048491	0.0144741	0.4263285	-0.0078435	-0.7134785	11
12	S-BA	2.8819994	0.3732587	0.1393220	0.0648449	1.2469420	0.0345210	1.7784608	12
13	S-BE								13
14	S-BI								14
15	S-CD								15
16	S-CO	1.0593830	0.1066985	0.0113846	0.0019085	1.5711157	1.7135584D-04	1.3221057	16
17	S-CR	2.3340785	0.3267417	0.1067602	0.0045183	0.1295261	-0.0026142	-0.2293629	17
18	S-CU	1.1278151	0.2517074	0.0633566	0.0405010	2.5396746	0.0291373	7.2588170	18
19	S-LA	1.8225743	0.2523422	0.0636766	0.0013814	0.0859701	0.0023691	0.5842763	19
20	S-MO								20
21	S-NB								21
22	S-NI	1.4119794	0.4710997	0.2219350	0.0490063	0.4687200	-0.0767010	-1.5572193	22
23	S-PB	1.7101113	0.4035505	0.1628530	0.1138294	1.7320508			23
24	S-SB								24
25	S-SC	1.1222093	0.2624056	0.0688567	0.0353984	1.9591320	0.0112127	2.3649362	25
26	S-SN								26
27	S-SR	2.5930524	0.2665329	0.0710398	0.0096691	0.5106599	6.3335542D-04	0.1255001	27
28	S-V	1.9672964	0.2034808	0.0414044	0.0059545	0.7067704	-2.0809828D-04	-0.1213877	28
29	S-W								29
30	S-Y	2.1007270	0.3721841	0.1385210	0.0305910	0.5933621	0.0126701	0.6603105	30
31	S-ZN								31
32	S-ZR	3.3010300							32
33	S-TH								33
34	AA-AS-P								34
35	AA-ZN-P								35
36	AA-CD-P								36
37	AA-BI-P								37
38	AA-SB-P								38
39	U-INST								39

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

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizo

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

FREQUENCY TABLE FOR VARIABLE 3 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.09	0.09
-9.170E-01	-7.503E-01	1	1	3.45	3.45	0.40	0.91
-7.503E-01	-5.837E-01	2	3	6.90	10.34	1.37	0.29
-5.837E-01	-4.170E-01	1	4	3.45	13.79	3.32	1.62
-4.170E-01	-2.503E-01	8	12	27.59	41.38	5.68	0.95
-2.503E-01	-8.367E-02	2	14	6.90	48.28	6.84	3.43
-8.367E-02	8.300E-02	12	26	41.38	89.66	5.81	6.59
8.300E-02	2.497E-01	1	27	3.45	93.10	3.48	1.77
2.497E-01	4.163E-01	2	29	6.90	100.00	2.01	0.00
G		0	29	0.00	100.00	0.09	0.09
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
1.467E-01 XXX
2.153E-01 XXXXXXX
3.160E-01 XXX
4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E-01 XXXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00 XXX
2.153E+00 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.50000E-01
MAXIMUM ANTILOG      =  2.00000E+00
GEOMETRIC MEAN       =  6.89384E-01
GEOMETRIC DEVIATION  =  1.89498E+00
VARIANCE OF LOGS     =  7.70638E-02
```

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.397410E-02	1.056754E+00
90.00	9.966870E-02	1.257965E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	1.94	1.94
-4.170E-01	-2.503E-01	7	7	24.14	24.14	4.29	1.71
-2.503E-01	-8.367E-02	10	17	34.48	58.62	7.34	0.96
-8.367E-02	8.300E-02	7	24	24.14	82.76	7.76	0.07
8.300E-02	2.497E-01	1	25	3.45	86.21	5.05	3.25
2.497E-01	4.163E-01	3	28	10.34	96.55	2.03	0.46
4.163E-01	5.830E-01	0	28	0.00	96.55	0.50	0.50
5.830E-01	7.497E-01	1	29	3.45	100.00	0.08	9.96
	G	0	29	0.00	100.00	1.94	1.94
	H	0	29				
	B	0	29				

TOTALS LESS H AND B 29

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

```
 4.638E-01 XXXXXXXXXXXXXXXXXXXXXXX
 6.808E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXXX
 1.467E+00 XXX
 2.153E+00 XXXXXXXXXX
 3.160E+00
 4.638E+00 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 5.00000E+00
GEOMETRIC MEAN = 8.61467E-01
GEOMETRIC DEVIATION = 1.71724E+00
VARIANCE OF LOGS = 5.51456E-02

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.942946E-02	1.070113E+00
90.00	3.107792E-01	2.045405E+00
95.00	3.913349E-01	2.462266E+00
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.81	1.81
-4.170E-01	-2.503E-01	6	6	20.69	20.69	1.77	10.11
-2.503E-01	-8.367E-02	0	6	0.00	20.69	2.72	2.72
-8.367E-02	8.300E-02	6	12	20.69	41.38	3.64	1.53
8.300E-02	2.497E-01	4	16	13.79	55.17	4.23	0.01
2.497E-01	4.163E-01	4	20	13.79	68.97	4.28	0.02
4.163E-01	5.830E-01	0	20	0.00	68.97	3.76	3.76
5.830E-01	7.497E-01	5	25	17.24	86.21	2.87	1.59
7.497E-01	9.163E-01	0	25	0.00	86.21	1.90	1.90
9.163E-01	1.083E+00	4	29	13.79	100.00	2.02	1.95
G		0	29	0.00	100.00	1.81	1.81
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
4.638E-01 XXXXXXXXXXXXXXXXXXXX
6.808E-01
9.992E-01 XXXXXXXXXXXXXXXXXXXX
1.467E+00 XXXXXXXXXXXXXX
2.153E+00 XXXXXXXXXXXXXX
3.160E+00
4.638E+00 XXXXXXXXXXXXXXXXX
6.808E+00
9.992E+00 XXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 1.82798E+00
GEOMETRIC DEVIATION = 2.77018E+00
VARIANCE OF LOGS = 1.95814E-01

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	5.330019E-01	3.411944E+00
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.58	0.58
-1.084E+00	-9.173E-01	1	1	3.45	3.45	0.88	0.02
-9.173E-01	-7.507E-01	1	2	3.45	6.90	1.72	0.30
-7.507E-01	-5.840E-01	6	8	20.69	27.59	2.83	3.55
-5.840E-01	-4.173E-01	3	11	10.34	37.93	3.95	0.23
-4.173E-01	-2.507E-01	4	15	13.79	51.72	4.65	0.09
-2.507E-01	-8.400E-02	4	19	13.79	65.52	4.64	0.09
-8.400E-02	8.267E-02	2	21	6.90	72.41	3.90	0.93
8.267E-02	2.493E-01	3	24	10.34	82.76	2.78	0.02
2.493E-01	4.160E-01	3	27	10.34	93.10	3.07	0.00
G		2	29	6.90	100.00	0.58	3.51
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
 9.985E-02 XXX
 1.466E-01 XXX
 2.151E-01 XXXXXXXXXXXXXXXXXXXX
 3.157E-01 XXXXXXXXXX
 4.634E-01 XXXXXXXXXXXXX
 6.802E-01 XXXXXXXXXXXXX
 9.985E-01 XXXXXXX
 1.466E+00 XXXXXXXXXX
 2.151E+00 XXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 5.06397E-01
GEOMETRIC DEVIATION = 2.43835E+00
VARIANCE OF LOGS = 1.49844E-01

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.243357E-01	1.331483E+00
90.00	3.660029E-01	2.322752E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.99	0.99
2.083E+00 -	2.250E+00	1	1	3.45	3.45	2.92	1.26
2.250E+00 -	2.416E+00	8	9	27.59	31.03	6.24	0.50
2.416E+00 -	2.583E+00	14	23	48.28	79.31	8.13	4.23
2.583E+00 -	2.750E+00	2	25	6.90	86.21	6.46	3.08
2.750E+00 -	2.916E+00	0	25	0.00	86.21	3.13	3.13
2.916E+00 -	3.083E+00	4	29	13.79	100.00	1.11	7.51
	G	0	29	0.00	100.00	0.99	0.99
	H	0	29				
	B	0	29				

TOTALS LESS H AND B 29

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

```
1.467E+02 XXX
2.153E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXX
6.808E+02
9.992E+02 XXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.50000E+02
MAXIMUM ANTILOG	=	1.00000E+03
GEOMETRIC MEAN	=	3.20321E+02
GEOMETRIC DEVIATION	=	1.70613E+00
VARIANCE OF LOGS	=	5.38293E-02

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.568120E+00	3.699304E+02
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		1	1	3.45	3.45		
T		0	1	0.00	3.45	3.08	3.08
1.250E+00 -	1.417E+00	11	12	37.93	41.38	3.73	14.16
1.417E+00 -	1.583E+00	0	12	0.00	41.38	5.40	5.40
1.583E+00 -	1.750E+00	7	19	24.14	65.52	5.98	0.17
1.750E+00 -	1.917E+00	6	25	20.69	86.21	5.06	0.17
1.917E+00 -	2.083E+00	1	26	3.45	89.66	3.28	1.58
2.083E+00 -	2.250E+00	1	27	3.45	93.10	1.62	0.24
2.250E+00 -	2.417E+00	2	29	6.90	100.00	0.84	1.61
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXX
1.000E+02 XXX
1.468E+02 XXX
2.154E+02 XXXXXXX
```

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 4.41311E+01
GEOMETRIC DEVIATION = 2.10768E+00
VARIANCE OF LOGS = 1.04849E-01

PERCENT TABLE FOR VARIABLE 11 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.826390E+00	6.704865E+01
90.00	2.100002E+00	1.258930E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	3.07	3.07
2.416E+00 -	2.583E+00	6	6	20.69	20.69	3.06	2.84
2.583E+00 -	2.749E+00	10	16	34.48	55.17	4.35	7.36
2.749E+00 -	2.916E+00	1	17	3.45	58.62	5.08	3.28
2.916E+00 -	3.083E+00	4	21	13.79	72.41	4.88	0.16
3.083E+00 -	3.249E+00	5	26	17.24	89.66	3.85	0.34
3.249E+00 -	3.416E+00	1	27	3.45	93.10	2.50	0.90
3.416E+00 -	3.583E+00	0	27	0.00	93.10	1.33	1.33
3.583E+00 -	3.749E+00	1	28	3.45	96.55	0.59	0.29
3.749E+00 -	3.916E+00	0	28	0.00	96.55	0.21	0.21
3.916E+00 -	4.083E+00	1	29	3.45	100.00	0.08	10.39
G		0	29	0.00	100.00	3.07	3.07
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
3.157E+02 XXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXX
9.985E+02 XXXXXXXXXXXXXX
1.466E+03 XXXXXXXXXXXXXXXXX
2.151E+03 XXX
3.157E+03
4.634E+03 XXX
6.803E+03
9.985E+03 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+02
MAXIMUM ANTILOG = 1.00000E+04
GEOMETRIC MEAN = 7.62078E+02
GEOMETRIC DEVIATION = 2.36188E+00
VARIANCE OF LOGS = 1.39322E-01

PERCENT TABLE FOR VARIABLE 12 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE			
			95.00	3.599336E+00	3.974987E+03
75.00	3.107668E+00	1.281351E+03	98.00	1.000000E+35	1.000000E+35
90.00	3.266002E+00	1.845023E+03			

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		18	18	62.07	62.07		
L		0	18	0.00	62.07		
T		0	18	0.00	62.07	2.94	2.94
9.160E-01 -	1.083E+00	8	26	27.59	89.66	16.01	4.00
1.083E+00 -	1.249E+00	2	28	6.90	96.55	9.49	5.91
1.249E+00 -	1.416E+00	1	29	3.45	100.00	0.57	0.33
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXX
2.151E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	2.00000E+01
GEOMETRIC MEAN	=	1.14652E+01
GEOMETRIC DEVIATION	=	1.27849E+00
VARIANCE OF LOGS	=	1.13845E-02

PERCENT TABLE FOR VARIABLE 16 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.091000E+00	1.233106E+01
95.00	1.211834E+00	1.628673E+01
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		1	1	3.45	3.45		
L		0	1	0.00	3.45		
T		0	1	0.00	3.45	0.81	0.81
1.583E+00 -	1.750E+00	2	3	6.90	10.34	1.25	0.44
1.750E+00 -	1.916E+00	0	3	0.00	10.34	2.39	2.39
1.916E+00 -	2.083E+00	3	6	10.34	20.69	3.74	0.15
2.083E+00 -	2.250E+00	7	13	24.14	44.83	4.81	1.00
2.250E+00 -	2.416E+00	6	19	20.69	65.52	5.09	0.16
2.416E+00 -	2.583E+00	3	22	10.34	75.86	4.44	0.47
2.583E+00 -	2.750E+00	4	26	13.79	89.66	3.18	0.21
2.750E+00 -	2.916E+00	2	28	6.90	96.55	1.87	0.01
2.916E+00 -	3.083E+00	1	29	3.45	100.00	1.43	0.13
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

HISTOGRAM FOR VARIABLE 17 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 XXXXXXX
6.808E+01
9.992E+01 XXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXX
4.638E+02 XXXXXXXXXXXXX
6.808E+02 XXXXXXX
9.992E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+01
MAXIMUM ANTILOG      = 1.00000E+03
GEOMETRIC MEAN       = 2.15813E+02
GEOMETRIC DEVIATION  = 2.12198E+00
VARIANCE OF LOGS     = 1.06760E-01
```

PERCENT TABLE FOR VARIABLE 17 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.569113E+00	3.707772E+02
90.00	2.758002E+00	5.727992E+02
95.00	2.878836E+00	7.565470E+02
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		9	9	31.03	31.03		
T		0	9	0.00	31.03	5.86	5.86
9.160E-01 -	1.083E+00	14	23	48.28	79.31	7.80	4.92
1.083E+00 -	1.249E+00	1	24	3.45	82.76	8.23	6.35
1.249E+00 -	1.416E+00	3	27	10.34	93.10	4.99	0.79
1.416E+00 -	1.583E+00	1	28	3.45	96.55	1.74	0.31
1.583E+00 -	1.749E+00	0	28	0.00	96.55	0.35	0.35
1.749E+00 -	1.916E+00	0	28	0.00	96.55	0.04	0.04
1.916E+00 -	2.083E+00	1	29	3.45	100.00	0.00	368.76
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXX
2.151E+01 XXXXXXXXXX
3.157E+01 XXX
4.634E+01
6.802E+01
9.985E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 1.34219E+01
GEOMETRIC DEVIATION = 1.78528E+00
VARIANCE OF LOGS = 6.33566E-02

PERCENT TABLE FOR VARIABLE 18 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.366001E+00	2.322742E+01
95.00	1.507668E+00	3.218606E+01
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.--continued

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		15	15	51.72	51.72		
L		0	15	0.00	51.72		
T		0	15	0.00	51.72	0.08	0.08
1.250E+00 -	1.417E+00	1	16	3.45	55.17	0.82	0.04
1.417E+00 -	1.583E+00	0	16	0.00	55.17	4.01	4.01
1.583E+00 -	1.750E+00	7	23	24.14	79.31	9.05	0.46
1.750E+00 -	1.917E+00	1	24	3.45	82.76	9.42	7.53
1.917E+00 -	2.083E+00	3	27	10.34	93.10	4.52	0.51
2.083E+00 -	2.250E+00	1	28	3.45	96.55	1.00	0.00
2.250E+00 -	2.417E+00	1	29	3.45	100.00	0.11	7.58
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
2.154E+01 XXX
3.162E+01
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXX
1.000E+02 XXXXXXXXXX
1.468E+02 XXX
2.154E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 6.64621E+01
GEOMETRIC DEVIATION = 1.78790E+00
VARIANCE OF LOGS = 6.36765E-02

PERCENT TABLE FOR VARIABLE 19 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.690477E+00	4.903171E+01
90.00	2.033335E+00	1.079779E+02
95.00	2.175002E+00	1.496242E+02
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	4.24	4.24
9.160E-01	- 1.083E+00	15	15	51.72	51.72	2.79	53.56
1.083E+00	- 1.249E+00	0	15	0.00	51.72	3.56	3.56
1.249E+00	- 1.416E+00	1	16	3.45	55.17	4.02	2.26
1.416E+00	- 1.583E+00	1	17	3.45	58.62	4.00	2.25
1.583E+00	- 1.749E+00	4	21	13.79	72.41	3.53	0.06
1.749E+00	- 1.916E+00	1	22	3.45	75.86	2.74	1.11
1.916E+00	- 2.083E+00	4	26	13.79	89.66	1.89	2.37
2.083E+00	- 2.249E+00	3	29	10.34	100.00	2.24	0.26
G		0	29	0.00	100.00	4.24	4.24
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01
2.151E+01 XXX
3.157E+01 XXX
4.634E+01 XXXXXXXXXXXXXX
6.802E+01 XXX
9.985E+01 XXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 2.58214E+01
GEOMETRIC DEVIATION = 2.95869E+00
VARIANCE OF LOGS = 2.21935E-01

PERCENT TABLE FOR VARIABLE 22 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.874335E+00	7.487473E+01
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	26	26	89.66	89.66		
	L	0	26	0.00	89.66		
	T	0	26	0.00	89.66	17.24	17.24
1.416E+00	- 1.583E+00	2	28	6.90	96.55	7.95	4.45
1.583E+00	- 1.749E+00	0	28	0.00	96.55	3.15	3.15
1.749E+00	- 1.916E+00	0	28	0.00	96.55	0.60	0.60
1.916E+00	- 2.083E+00	0	28	0.00	96.55	0.06	0.06
2.083E+00	- 2.249E+00	1	29	3.45	100.00	0.00	404.81
	G	0	29	0.00	100.00	0.00	0.00
	H	0	29				
	B	0	29				

TOTALS LESS H AND B 29

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

```
3.157E+01 XXXXXXX
4.634E+01
6.802E+01
9.985E+01
1.466E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 3.00000E+01
MAXIMUM ANTILOG      = 1.50000E+02
GEOMETRIC MEAN       = 5.12993E+01
GEOMETRIC DEVIATION  = 2.53251E+00
VARIANCE OF LOGS     = 1.62853E-01
```

PERCENT TABLE FOR VARIABLE 23 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00	6.26	6.26
9.160E-01	-	1.083E+00	23	23	79.31	79.31	6.50	41.89
1.083E+00	-	1.249E+00	0	23	0.00	79.31	7.13	7.13
1.249E+00	-	1.416E+00	2	25	6.90	86.21	5.30	2.05
1.416E+00	-	1.583E+00	0	25	0.00	86.21	2.66	2.66
1.583E+00	-	1.749E+00	3	28	10.34	96.55	0.91	4.84
1.749E+00	-	1.916E+00	1	29	3.45	100.00	0.24	2.34
	G		0	29	0.00	100.00	6.26	6.26
	H		0	29				
	B		0	29				

TOTALS LESS H AND B 29

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

```
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01
2.151E+01 XXXXXXX
3.157E+01
4.634E+01 XXXXXXXXXX
6.802E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 7.00000E+01
GEOMETRIC MEAN = 1.32498E+01
GEOMETRIC DEVIATION = 1.82981E+00
VARIANCE OF LOGS = 6.88567E-02

PERCENT TABLE FOR VARIABLE 25 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	1.000000E+35	1.000000E+35
90.00	1.538223E+00	3.453214E+01
95.00	1.699335E+00	5.004203E+01
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		2	2	6.90	6.90		
L		0	2	0.00	6.90		
T		0	2	0.00	6.90	3.30	3.30
2.250E+00 -	2.417E+00	10	12	34.48	41.38	4.81	5.60
2.417E+00 -	2.583E+00	1	13	3.45	44.83	6.84	4.99
2.583E+00 -	2.750E+00	11	24	37.93	82.76	6.68	2.79
2.750E+00 -	2.917E+00	3	27	10.34	93.10	4.48	0.49
2.917E+00 -	3.083E+00	1	28	3.45	96.55	2.07	0.55
3.083E+00 -	3.250E+00	0	28	0.00	96.55	0.65	0.65
3.250E+00 -	3.417E+00	1	29	3.45	100.00	0.17	4.21
G		0	29	0.00	100.00	0.00	0.00
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
 2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.162E+02 XXX
 4.642E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+02 XXXXXXXXXX
 1.000E+03 XXX
 1.468E+03
 2.154E+03 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.00000E+02
MAXIMUM ANTILOG	=	2.00000E+03
GEOMETRIC MEAN	=	3.91789E+02
GEOMETRIC DEVIATION	=	1.84728E+00
VARIANCE OF LOGS	=	7.10395E-02

PERCENT TABLE FOR VARIABLE 27 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.715910E+00	5.198883E+02
90.00	2.866668E+00	7.356443E+02
95.00	3.008335E+00	1.019377E+03
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.85	0.85
1.583E+00 -	1.750E+00	4	4	13.79	13.79	3.28	0.16
1.750E+00 -	1.916E+00	11	15	37.93	51.72	7.50	1.63
1.916E+00 -	2.083E+00	6	21	20.69	72.41	9.11	1.06
2.083E+00 -	2.250E+00	5	26	17.24	89.66	5.86	0.13
2.250E+00 -	2.416E+00	2	28	6.90	96.55	2.00	0.00
2.416E+00 -	2.583E+00	1	29	3.45	100.00	0.40	0.92
G		0	29	0.00	100.00	0.85	0.85
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

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

```
4.638E+01 XXXXXXXXXXXXX
6.808E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.992E+01 XXXXXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXX
2.153E+02 XXXXXXX
3.160E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      = 5.00000E+01
MAXIMUM ANTILOG      = 3.00000E+02
GEOMETRIC MEAN       = 9.27463E+01
GEOMETRIC DEVIATION  = 1.59765E+00
VARIANCE OF LOGS     = 4.14044E-02
```

PERCENT TABLE FOR VARIABLE 28 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.108001E+00	1.282334E+02
90.00	2.258001E+00	1.811346E+02
95.00	2.378835E+00	2.392406E+02
98.00	1.000000E+35	1.000000E+35

Table 17. Graphical Analyses of analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.32	0.32
1.250E+00 -	1.417E+00	1	1	3.45	3.45	0.64	0.21
1.417E+00 -	1.583E+00	0	1	0.00	3.45	1.43	1.43
1.583E+00 -	1.750E+00	3	4	10.34	13.79	2.63	0.05
1.750E+00 -	1.917E+00	6	10	20.69	34.48	3.99	1.02
1.917E+00 -	2.083E+00	6	16	20.69	55.17	4.96	0.22
2.083E+00 -	2.250E+00	4	20	13.79	68.97	5.06	0.22
2.250E+00 -	2.417E+00	5	25	17.24	86.21	4.24	0.14
2.417E+00 -	2.583E+00	0	25	0.00	86.21	2.92	2.92
2.583E+00 -	2.750E+00	2	27	6.90	93.10	1.65	0.08
2.750E+00 -	2.917E+00	1	28	3.45	96.55	0.76	0.07
2.917E+00 -	3.083E+00	1	29	3.45	100.00	0.41	0.84
G		0	29	0.00	100.00	0.32	0.32
H		0	29				
B		0	29				

TOTALS LESS H AND B 29

HISTOGRAM FOR VARIABLE 30 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXX
3.162E+01
4.642E+01 XXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXXX
2.154E+02 XXXXXXXXXXXXXXXXX
3.162E+02
4.642E+02 XXXXXXX
6.813E+02 XXX
1.000E+03 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 1.26103E+02
GEOMETRIC DEVIATION = 2.35605E+00
VARIANCE OF LOGS = 1.38521E-01

PERCENT TABLE FOR VARIABLE 30 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
75.00	2.308335E+00	2.033927E+02
90.00	2.600003E+00	3.981096E+02
95.00	2.841670E+00	6.944962E+02
98.00	1.000000E+35	1.000000E+35

Table 18. Correlation Analyses for analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -

	1 LATITUDE	2 LONGITUD	3 S-FE%	4 S-MG%	5 S-CA%	6 S-TI%	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 LATITUDE	0.0137	0.1393	-0.3549	-0.4676	-0.0822	-0.4331	-0.2717	**********	**********	**********
2 LONGITUD	29	0.0344	-0.0797	-0.0585	-0.2960	-0.0546	-0.1361	**********	**********	**********
3 S-FE%	29	29	0.4618	0.7697	0.4239	0.4171	0.7919	**********	**********	**********
4 S-MG%	29	29	29	0.8837	0.5034	0.5176	0.8015	**********	**********	**********
5 S-CA%	29	29	29	29	3.2208	0.2772	0.5332	**********	**********	**********
6 S-TI%	27	27	27	27	27	0.6187	0.4505	**********	**********	**********
7 S-MN	29	29	29	29	29	27	265.1099	**********	**********	**********
8 S-AG	0	0	0	0	0	0	0	**********	**********	**********
9 S-AS	0	0	0	0	0	0	0	0	**********	**********
10 S-AU	0	0	0	0	0	0	0	0	0	**********
11 S-B	28	28	28	28	28	26	28	0	0	0
12 S-BA	29	29	29	29	29	27	29	0	0	0
13 S-BE	0	0	0	0	0	0	0	0	0	0
14 S-BI	0	0	0	0	0	0	0	0	0	0
15 S-CD	0	0	0	0	0	0	0	0	0	0
16 S-CO	11	11	11	11	11	9	11	0	0	0
17 S-CR	28	28	28	28	28	26	28	0	0	0
18 S-CU	20	20	20	20	20	18	20	0	0	0
19 S-LA	14	14	14	14	14	13	14	0	0	0
20 S-MO	0	0	0	0	0	0	0	0	0	0
21 S-NB	0	0	0	0	0	0	0	0	0	0
22 S-NI	29	29	29	29	29	27	29	0	0	0
23 S-PB	3	3	3	3	3	1	3	0	0	0
24 S-SB	0	0	0	0	0	0	0	0	0	0
25 S-SC	29	29	29	29	29	27	29	0	0	0
26 S-SN	0	0	0	0	0	0	0	0	0	0
27 S-SR	27	27	27	27	27	25	27	0	0	0
28 S-V	29	29	29	29	29	27	29	0	0	0
29 S-W	0	0	0	0	0	0	0	0	0	0
30 S-Y	29	29	29	29	29	27	29	0	0	0
31 S-ZN	0	0	0	0	0	0	0	0	0	0
32 S-ZR	1	1	1	1	1	1	1	0	0	0
33 S-TH	0	0	0	0	0	0	0	0	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 18. Correlation Analyses for analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 LATITUDE	-0.1639	-0.0601	**********	**********	**********	-0.3543	-0.4868	0.1552	0.3802	**********
2 LONGITUD	0.3309	0.0355	**********	**********	**********	0.1230	-0.1109	0.2452	-0.6836	**********
3 S-FE%	0.3374	0.0642	**********	**********	**********	0.6638	0.7938	-0.1575	0.3212	**********
4 S-MG%	0.1105	0.0135	**********	**********	**********	0.6244	0.8737	0.0009	0.2558	**********
5 S-CA%	-0.1496	0.1260	**********	**********	**********	-0.0117	0.5236	-0.0137	0.8201	**********
6 S-TI%	0.5469	-0.0495	**********	**********	**********	0.0256	0.6312	-0.0586	0.2846	**********
7 S-MN	0.1744	0.1216	**********	**********	**********	0.6223	0.8437	0.0161	0.6078	**********
8 S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9 S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10 S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11 S-B	50.0899	-0.1908	**********	**********	**********	-0.0243	0.3209	0.1870	-0.3343	**********
12 S-BA	28	1918.8012	**********	**********	**********	0.7154	0.0091	-0.1760	-0.0445	**********
13 S-BE	0	0	**********	**********	**********	**********	**********	**********	**********	**********
14 S-BI	0	0	0	**********	**********	**********	**********	**********	**********	**********
15 S-CD	0	0	0	0	**********	**********	**********	**********	**********	**********
16 S-CO	11	11	0	0	0	3.3710	0.4056	-0.3553	-0.2054	**********
17 S-CR	27	28	0	0	0	11	229.7557	-0.0577	0.4086	**********
18 S-CU	20	20	0	0	0	7	20	20.2273	0.3531	**********
19 S-LA	13	14	0	0	0	4	14	11	48.3860	**********
20 S-MO	0	0	0	0	0	0	0	0	0	**********
21 S-NB	0	0	0	0	0	0	0	0	0	0
22 S-NI	28	29	0	0	0	11	28	20	14	0
23 S-PB	3	3	0	0	0	2	3	2	1	0
24 S-SB	0	0	0	0	0	0	0	0	0	0
25 S-SC	28	29	0	0	0	11	28	20	14	0
26 S-SN	0	0	0	0	0	0	0	0	0	0
27 S-SR	26	27	0	0	0	10	26	20	13	0
28 S-V	28	29	0	0	0	11	28	20	14	0
29 S-W	0	0	0	0	0	0	0	0	0	0
30 S-Y	28	29	0	0	0	11	28	20	14	0
31 S-ZN	0	0	0	0	0	0	0	0	0	0
32 S-ZR	1	1	0	0	0	0	1	1	0	0
33 S-TH	0	0	0	0	0	0	0	0	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 18. Correlation Analyses for analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1	LATITUDE	**********	-0.1206	-0.2729	**********	-0.1508	**********	0.1390	-0.4692	**********	-0.1458
2	LONGITUD	**********	-0.1356	0.1245	**********	0.3499	**********	0.1389	-0.1006	**********	0.2972
3	S-FE%	**********	0.6775	-0.1890	**********	0.3188	**********	0.0214	0.7305	**********	0.2647
4	S-MG%	**********	0.7178	-0.1890	**********	0.1034	**********	0.1571	0.8253	**********	0.0844
5	S-CA%	**********	0.5276	-0.8322	**********	-0.1291	**********	0.6221	0.3892	**********	-0.1392
6	S-TI%	**********	0.3249	**********	**********	0.5311	**********	-0.0086	0.8282	**********	0.7054
7	S-MN	**********	0.8299	-0.3974	**********	0.1467	**********	0.0563	0.6871	**********	0.0866
8	S-AG	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
9	S-AS	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
10	S-AU	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
11	S-B	**********	-0.0975	0.5000	**********	0.8765	**********	-0.3156	0.4661	**********	0.8819
12	S-BA	**********	0.1379	0.5000	**********	-0.0247	**********	0.1830	-0.0328	**********	-0.0561
13	S-BE	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
14	S-BI	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
15	S-CD	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
16	S-CO	**********	0.4574	-1.0000	**********	0.0260	**********	-0.0422	0.3121	**********	-0.0695
17	S-CR	**********	0.7496	0.2168	**********	0.2890	**********	0.0143	0.8436	**********	0.3037
18	S-CU	**********	-0.0473	-1.0000	**********	0.0170	**********	0.0657	-0.0168	**********	0.0435
19	S-LA	**********	0.6917	**********	**********	-0.3003	**********	0.3447	0.1853	**********	-0.3017
20	S-MO	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
21	S-NB	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
22	S-NI	0	48.2246	-0.5000	**********	-0.0924	**********	0.1135	0.5124	**********	-0.1009
23	S-PB	0	3	69.2820	**********	0.7559	**********	-0.4566	0.1890	**********	0.8808
24	S-SB	0	0	0	**********	**********	**********	**********	**********	**********	**********
25	S-SC	0	29	3	0	16.0587	**********	-0.1671	0.3949	**********	0.9476
26	S-SN	0	0	0	0	0	**********	**********	**********	**********	**********
27	S-SR	0	27	3	0	27	0	369.3376	-0.0082	**********	-0.1860
28	S-V	0	29	3	0	29	0	27	57.2911	**********	0.4400
29	S-W	0	0	0	0	0	0	0	0	**********	**********
30	S-Y	0	29	3	0	29	0	27	29	0	218.5983
31	S-ZN	0	0	0	0	0	0	0	0	0	0
32	S-ZR	0	1	0	0	1	0	1	1	0	1
33	S-TH	0	0	0	0	0	0	0	0	0	0

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 18. Correlation Analyses for analytical data for heavy mineral concentrates of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

ARRAY OF NUMBER OF PAIRS AND CORRELATION COEFFICIENTS -CONT.

		31 S-ZN	32 S-ZR	33 S-TH
1	LATITUDE	**********	**********	**********
2	LONGITUD	**********	**********	**********
3	S-FE%	**********	**********	**********
4	S-MG%	**********	**********	**********
5	S-CA%	**********	**********	**********
6	S-TI%	**********	**********	**********
7	S-MN	**********	**********	**********
8	S-AG	**********	**********	**********
9	S-AS	**********	**********	**********
10	S-AU	**********	**********	**********
11	S-B	**********	**********	**********
12	S-BA	**********	**********	**********
13	S-BE	**********	**********	**********
14	S-BI	**********	**********	**********
15	S-CD	**********	**********	**********
16	S-CO	**********	**********	**********
17	S-CR	**********	**********	**********
18	S-CU	**********	**********	**********
19	S-LA	**********	**********	**********
20	S-MO	**********	**********	**********
21	S-NB	**********	**********	**********
22	S-NI	**********	**********	**********
23	S-PB	**********	**********	**********
24	S-SB	**********	**********	**********
25	S-SC	**********	**********	**********
26	S-SN	**********	**********	**********
27	S-SR	**********	**********	**********
28	S-V	**********	**********	**********
29	S-W	**********	**********	**********
30	S-Y	**********	**********	**********
31	S-ZN	**********	**********	**********
32	S-ZR	0	**********	**********
33	S-TH	0	0	**********

NOTE: THE DIAGONAL OF THE CORR MATRIX CONTAINS THE STD DEV OF THE VARIABLE FOR ONLY THE VALID PAIRS.

Table 19. Analytical data for rocks of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by G. Day, A.L. Gruzensky, D.K. Kelley, G. Nelson, J. Sharkey, and L.S. Sherlock. The following qualifiers are used in reporting spectrographic data: --, no determination made; N, concentration less than the detection limit; <, detected, but present at a concentration less than the value reported; >, element present at a concentration greater than the upper calibration limit; and H, interfering spectra render analytical lines unusable. Lower limits of detection shown in parenthases in column headings.]

Sample	Latitude	Longitude	Fe-%-s (.05)	Mg-%-s (.02)	Ca-%-s (.05)	Ti-%-s (.002)	Mn-ppm-s (10)	Ag-ppm-s (.5)	As-ppm-s (200)	Au-ppm-s (10)	B-ppm-s (10)
RS169R3	34 41 8	111 33 26	5.0	3.0	20.0	.50	2,000	N	N	N	100
WB169R	34 41 8	111 33 26	.1	.2	.1	.03	70	N	N	N	30
WB169R2	34 41 8	111 33 26	.2	10.0	20.0	.10	200	N	N	N	100
WB169R4	34 41 8	111 33 26	.2	10.0	20.0	.03	500	N	N	N	20
WB170R	34 41 27	111 34 34	.1	.2	.2	.05	70	N	N	N	20
WB171R	34 41 15	111 34 52	15.0	.2	.1	.05	500	N	1,500	N	50
WB172R	34 40 54	111 36 18	.5	.3	.5	.05	200	N	N	N	30

Table 19. Analytical data for rocks of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Ba-ppm-s (20)	Be-ppm-s (1)	Bi-ppm-s (10)	Cd-ppm-s (20)	Co-ppm-s (5)	Cr-ppm-s (10)	Cu-ppm-s (5)	La-ppm-s (20)	Mo-ppm-s (5)	Nb-ppm-s (20)	Ni-ppm-s (5)
RS169R3	1,000	2	N	N	30	700	100	150	N	30	200
WB169R	70	N	N	N	N	20	70	N	N	N	5
WB169R2	100	1	N	N	N	200	70	N	N	N	15
WB169R4	30	N	N	N	N	70	50	N	N	N	10
WB170R	70	N	N	N	N	10	70	N	N	N	10
WB171R	200	2	N	N	20	50	100	N	N	N	50
WB172R	200	1	N	N	N	20	70	N	N	N	10

Table 19. Analytical data for rocks of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	Pb-ppm-s (10)	Sb-ppm-s (100)	Sc-ppm-s (5)	Sn-ppm-s (10)	Sr-ppm-s (100)	V-ppm-s (10)	W-ppm-s (50)	Y-ppm-s (10)	Zn-ppm-s (200)	Zr-ppm-s (10)	Th-ppm-s (100)
RS169R3	30	N	20	N	300	150	N	30	N	200	N
WB169R	10	N	N	N	100	30	N	N	N	100	N
WB169R2	20	N	<5	N	100	70	N	50	N	200	N
WB169R4	70	N	N	N	200	50	N	N	N	30	N
WB170R	10	N	N	N	N	30	N	N	N	100	N
WB171R	50	N	N	N	N	500	N	N	500	30	N
WB172R	15	N	N	N	100	50	N	N	N	100	N

Table 19. Analytical data for rocks of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	As-ppm-aa (5)	Zn-ppm-aa (5)	Cd-ppm-aa (.1)	Bi-ppm-aa (2)	Sb-ppm-aa (1)	U-ppm-INST (.02)
RS169R3	N	50	N	N	2	1.70
WB169R	N	5	N	N	N	.15
WB169R2	5	25	1.5	N	2	2.70
WB169R4	N	110	5.7	N	1	5.20
WB170R	N	5	N	N	2	.20
WB171R	450	140	.6	N	5	4.80
WB172R	5	15	N	N	1	.30

Table 19a.—Description of rock samples from Wet Beaver Roadless Area, Arizona

Sample No.	Formation	Brief Description
WB169R1	Coconino Sandstone Permian	Collected along east side of fault in upper end of Wet Beaver Canyon where Coconino is in contact with Tertiary volcanics.
WB169R2	Kaibab Limestone Permian	Gray limestone sampled along basalt dike in fault zone of sample WB169R1.
WB169R3	Tuff Tertiary	Tan volcanic tuff with basalt clasts on west side of fault near sample WB169R1.
WB169R4	Kaibab Limestone Permian	Dolostone sampled from east side of fault along basalt dike.
WB170R	Coconino Sandstone Permian	Tan to buff, crossbedded sandstone collected near the springs feeding into upper Wet Beaver Canyon.
WB171R	Coconino Sandstone Permian	Buff, crossbedded sandstone collected about 0.5 mi downstream from sample WB170R.
WB172R	Coconino Sandstone Permian	Collected about 2 mi downstream from sample WB171R.

Table 20. Analytical data for waters of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona.

[Analyses done by W. Ficklin, J. McHugh, and R. Tucker. Lower limits of detection shown in parenthases in column headings. N, concentration less than the detection limit.]

Sample	Latitude	Longitude	Ca-mg/L (.1)	Mg-mg/L (.1)	Na-mg/L (.1)	K-mg/L (.01)	Li-mg/L (1)	SiO2-mg/L (1)	Alk-mg/L (1)	SO4-mg/L (.1)	Cl-mg/L (.01)
WB 112W	34 41 2	111 31 25	10	4.4	1.9	.93	1	15	48.3	1.1	1.1
WB 121W	34 40 55	111 39 34	16	5.4	2.5	4.00	2	15	80.3	1.3	3.7
WB 122W	34 40 24	111 39 34	25	14.0	5.2	3.50	2	16	179.2	1.9	2.8
WB 128W	34 41 17	111 34 33	23	13.0	4.6	1.10	1	17	159.5	1.6	2.2
WB 153W	34 40 58	111 40 22	26	18.0	6.5	3.70	4	18	205.2	2.0	3.0
WB 164W	34 40 4	111 38 39	25	14.0	6.0	6.70	3	18	172.4	1.7	3.0
WB 164WD	34 40 4	111 38 39	25	14.0	6.2	4.60	3	18	173.7	1.7	3.2

Table 20. Analytical data for waters of the Wet Beaver Further Planning Area (RARE II), Coconino and Yavapai Counties, Arizona. --continued

Sample	F-mg/L (.01)	Zn-µg/L (1)	Cu-µg/L (1)	Mo-µg/L (1)	As-µg/L (1)	Fe-µg/L (1)	Mn-µg/L (1)	Al-µg/L (1)	U-µg/L (.01)	Sp Cond-µmhos/cm (.01)	pH	Temp c
WB 112W	.06	63	1.5	.6	.6	26.0	10.0	36	N	80	6.82	18
WB 121W	.07	10	2.4	.2	.5	7.2	6.5	54	N	260	7.95	26
WB 122W	.16	17	1.9	.3	4.7	10.0	4.2	22	.36	260	6.60	26
WB 128W	.07	16	.8	--	11.0	7.0	2.7	14	N	240	7.25	23
WB 153W	.11	27	.9	1.2	9.1	5.2	6.7	15	.60	290	6.93	25
WB 164W	.13	47	.4	.6	11.8	1.8	.3	11	.40	250	6.90	37
WB 164WD	.14	58	.4	.6	10.8	1.9	.3	12	.40	250	6.92	37