UNITED STATES DEPARTMENT OF THE INTERIOR

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Analytical Results of a Geochemical Survey Utilizing Heavy-Mineral Fractions and the Less-Than-180-Micrometer Fraction of Stream Sediments, Tushar Mountains and Adjoining Areas, Marysvale Volcanic Field, Utah

By

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INTRODUCTION

Nonmagnetic and magnetic fractions of heavy-mineral concentrates and the less-than-180-μm fraction of stream sediments from a geochemical survey of the Tushar Mountains and adjoining areas, Marysvale volcanic field, west-central Utah, were analyzed to evaluate the distribution of trace elements. Geochemical maps showing the distribution of trace elements associated with ore deposits were constructed for the nonmagnetic fraction (Miller and others, 1983a), the magnetic fraction (Miller and others, 1983b), and the less-than-180-μm fraction (Miller and others, 1983c).

The purpose of this report is to describe the sample collection and analytical methods, and to provide a complete listing of analytical data for each sample location shown on these geochemical maps. The data in this report and the associated geochemical maps are part of the basic data set of the Marysvale volcanic field. The set includes a full-color map of the geology (Cunningham and others, 1983a), and related maps showing the distribution of argillically and advanced argillically altered rocks and principal hydrothermal quartz and alunite veins (Cunningham and others, 1983b), complete Bouguer gravity contours (Cook and others, 1983); and aeromagnetic contours (Campbell and others, 1983).

SAMPLE COLLECTION AND PREPARATION, AND ANALYTICAL TECHNIQUES

Samples of stream sediments were collected from small, normally unbranched, stream drainages which range from 1.7 to 3.3 km (1-2 mi.) in length. Sample density in most of the area was one sample per 8 km^2 (1 sample per 3 mi^2), but was more detailed in the vicinity of the Mount Belknap caldera. Composite samples were collected at each site, where four or five individual samples were taken across and along the active stream channel. The geochemical sampling was carried out by W. R. Miller, G. K. Lee, J. F. Guadagnoli, J. B. McHugh, L. DiGuardia, and R. E. Tucker in the summers of 1980 and 1981.

Stream-sediment samples were first concentrated at the sample collection site by panning to reduce the amount of common rock-forming minerals, such as quartz and feldspar. The panned concentrates were dried and sieved to less than 18 mesh (1.00 mm), and the magnetite was removed with a hand magnet. The remaining concentrate was then separated using bromoform (specific gravity 2.86) into a light and a heavy fraction. The light fraction, which contained mostly quartz and feldspar, was not used further. The heavy fraction was separated electromagnetically with a Frantz Isodynamic Separator using a forward and side-angle setting of 15 degrees, and a 0.2-ampere setting. The magnetic fraction at 0.2 amperes was not used further. The nonmagnetic fraction was then separated electromagnetically into nonmagnetic and magnetic fractions at a setting of 0.6 amperes and these were the nonmagnetic and magnetic fractions analyzed for this report.

A separate sample of the stream sediments was collected at the site, and sieved to less than 80 mesh (180 μm). This was the fraction analyzed and reported as the less-than-180-μm fraction. Each sample was analyzed semiquantitatively for 30 elements by a six-step, D.C. arc, optical emission spectrographic method (Grimes and Marranzino, 1968). Au, Cd, Sb, W, and Th in the less-than-180-μm fractions of stream sediments were not detected in any of the samples and do not appear in the tables. All values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.15, or multiples of 10 of

these numbers) and are approximate geometric midpoints of the concentration ranges. The precision is shown to be within one adjoining reporting interval on each side of the reported value 83 percent of the time and within two adjoining intervals on each side of the reported value 96 percent of the time (Motooka and Grimes, 1976).

The high content of iron, titanium, and zirconium in the heavy-mineral concentrates made it necessary to modify the Grimes and Marranzino (1968) technique by mixing the sample with equal amounts of spectrographically pure quartz to reduce spectral interferences. Consequently, the lower limits of determination are double those of the normal procedure, except for Ag, As, Bi, Mo, Sb, Sn, W, and Th. When traces of these elements were observed but were below the detection limit, the reported value was extrapolated down to the next reporting interval.

The spectrographic analyses were supplemented for samples of the less-than-180-μm fraction of stream sediments by U and Th analysis using delayed neutron activation (Millard, 1976).

RESULTS AND DISCUSSION

The results of analyses for 27 elements from the nonmagnetic fraction and the magnetic fraction of heavy-mineral concentrates, and 24 elements from the less-than-180-μm fraction of stream sediments are tabulated in tables 1, 2, 3, and 4, and shown graphically in figures 1, 2, and 3. The maximum and minimum values, geometric mean and geometric deviation of the analytical data are in tables 5 and 6.

The Fe, Mg, Ca, and Ti values in tables 1, 2, 3, and 5 are reported in percent and all other elements are reported in parts per million (ppm). Other symbols shown in tables are as follows: N, not detected; <, amount is below the lowest limit of determination which is shown; and >, amount is above the highest limit of determination, which is shown. The values of U and Th reported in table 4 are in parts per million.

Stream sediments provide samples of rocks and minerals from the basin above the sample collection site, and the different fractions of these samples that were analyzed are designed to enhance distinguishing different elements. The less-than-180-μm fraction generally contains a high proportion of clay and common rock-forming minerals such as quartz and feldspar. Trace elements that tend to concentrate in this fraction are those that adhere to the surface of clay particles and generally were mobilized from their original residences in the rock by weathering. The nonmagnetic fraction of stream sediments contains accessory rock minerals, such as zircon and apatite and most primary and secondary ore minerals such as sulfides, carbonates, and oxides. Anomalous concentrations of trace metals in this fraction generally indicate the presence of surface or near-surface mineralized rocks. The magnetic fraction of stream sediments contains mafic rock minerals such as biotite, amphibole, and pyroxene, and more importantly, both detrital and hydromorphic Fe and Mn oxides containing anomalous trace metals. Fe and Mn oxides commonly fill or coat fractures in the rock and may be abundant along or near mineralized faults. Anomalous trace-metal content of the magnetic fraction may indicate the presence of structurally controlled mineralized sources.

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1053CN14	38 40 53	112 2 20	1.0	1.00	7.00	.500	1,000	N	500	70
1055CN14	38 36 55	112 6 12	5.0	3.00	7.00	1.000	1,500	N	N	<20
1056CN14	38 36 46	112 3 36	1.5	.70	30.00	.500	2,000	N	N	20
1057CN14	38 34 13	112 5 10	5.0	7.00	7.00	>2.000	2,000	N	N	<20
1058CN14	38 34 39	112 4 59	.7	.20	.30	.700	200	N	N	30
1059CN14	38 36 13	112 5 42	5.0	.50	20.00	.500	1,500	N	N	<20
1061CN14	38 38 21	112 3 5	5.0	15.00	20.00	.700	2,000	N	N	<20
1062CN14	38 39 30	112 5 57	2.0	5.00	10.00	.300	2,000	N	N	30
1066CN14	38 30 36	112 1 58	5.0	10.00	15.00	1.000	2,000	N	N	30
1068CN14	38 30 21	112 0 15	5.0	10.00	15.00	.700	2,000	N	N	N
1069CN14	38 33 11	112 0 22	5.0	7.00	10.00	5.000	1,500	N	N	<20
1405CN13	38 40 39	112 34 37	1.5	1.50	7.00	>2.000	1,000	N	N	200
1406CN13	38 40 24	112 31 17	2.0	1.50	20.00	>2.000	1,000	N	N	500
1407CN13	38 40 37	112 33 2	1.5	1.50	10.00	1.500	700	N	N	200
1408CN42	38 16 12	112 32 55	2.0	3.00	7.00	.700	1,000	N	N	30
1409CN42	38 17 51	112 32 40	1.5	7.00	5.00	2.000	1,500	N	N	70
1410CN42	38 21 51	112 33 55	10.0	3.00	7.00	.500	2,000	N	N	20
1411CN42	38 21 41	112 33 56	1.5	.50	3.00	1.000	700	N	N	150
1412CN42	38 19 31	112 32 32	1.5	5.00	10.00	>2.000	1,500	N	N	50
1414CN42	38 21 45	112 31 19	7.0	1.00	1.50	>2.000	3,000	N	N	70
1415CN42	38 21 12	112 32 26	3.0	.70	2.00	>2.000	2,000	N	N	100
1416CN42	38 22 51	112 31 43	5.0	.70	5.00	2.000	1,500	N	N	70
1418CN42	38 22 49	112 31 49	5.0	3.00	10.00	1.500	1,500	N	N	30
1419CN42	38 23 34	112 30 40	7.0	.20	.70	>2.000	>10,000	N	N	30
1420CN42	38 22 34	112 33 48	15.0	.50	5.00	2.000	700	3.0	N	<20
1422CN42	38 24 15	112 33 29	5.0	.50	5.00	>2.000	1,500	N	N	50
1424CN42	38 25 46	112 32 31	10.0	1.00	5.00	>2.000	1,000	N	N	70
1425CN42	38 25 26	112 31 24	2.0	.50	1.00	1.500	3,000	N	N	50
1426CN42	38 25 56	112 30 57	3.0	.30	1.00	1.500	7,000	N	N	50
1427CN42	38 27 9	112 30 43	5.0	.50	1.50	>2.000	10,000	N	N	70
1428CN42	38 25 55	112 33 40	3.0	.20	3.00	>2.000	1,000	N	N	300
1429CN42	38 26 5	112 34 5	.7	.50	7.00	>2.000	700	N	N	70
1430CN42	38 25 32	112 35 5	2.0	.70	3.00	>2.000	1,000	N	N	50
1431CN42	38 27 5	112 34 16	5.0	1.00	2.00	1.500	1,000	N	N	30
1433CN42	38 28 16	112 34 26	10.0	10.00	15.00	1.500	2,000	N	1,000	200
1435CN13	38 30 25	112 35 43	1.0	.70	10.00	1.500	1,000	N	N	100
1436CN13	38 30 14	112 34 47	2.0	1.00	5.00	2.000	1,500	N	N	20
1437CN13	38 30 2	112 33 1	2.0	.20	7.00	>2.000	1,000	N	N	20
1439CN13	38 33 0	112 33 54	1.0	.30	15.00	>2.000	1,500	N	N	50
1441CN13	38 31 7	112 34 41	1.5	.20	7.00	>2.000	1,000	N	N	<20
1444CN13	38 34 29	112 34 8	1.5	.30	3.00	1.500	700	N	N	50
1445CN13	38 34 43	112 34 3	1.5	.50	7.00	2.000	1,000	N	N	150
1447CN13	38 34 23	112 32 47	1.5	.70	15.00	1.500	1,000	N	N	100
1448CN13	38 35 43	112 31 32	5.0	3.00	7.00	>2.000	2,000	N	N	50
1449CN41	38 18 48	112 24 44	2.0	.50	3.00	>2.000	2,000	N	N	100

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1053CN14	>10,000	N	N	<10	200	<10	2,000	N	N	N
1055CN14	>10,000	<2	N	10	70	200	200	N	N	N
1056CN14	>10,000	N	N	<10	20	100	1,500	N	N	N
1057CN14	1,500	<2	N	20	1,000	10	500	N	200	300
1058CN14	>10,000	N	N	N	50	<10	150	N	N	N
1059CN14	>10,000	N	N	10	50	100	1,000	N	70	N
1061CN14	2,000	N	N	20	700	10	300	N	<50	70
1062CN14	1,000	N	N	15	300	15	500	N	N	20
1066CN14	200	2	N	30	2,000	15	500	N	50	150
1068CN14	<50	<2	N	30	2,000	10	300	N	<50	150
1069CN14	100	<2	N	30	3,000	<10	50	N	N	200
1405CN13	700	2	N	N	100	<10	700	N	200	N
1406CN13	500	<2	N	N	150	10	700	N	300	N
1407CN13	500	2	N	N	150	<10	300	N	70	N
1408CN42	500	2	N	10	500	20	100	N	<50	20
1409CN42	100	<2	N	30	1,500	<10	300	N	150	150
1410CN42	2,000	3	N	70	1,000	50	700	10	N	150
1411CN42	700	5	N	<10	50	15	300	N	70	N
1412CN42	300	<2	N	15	1,500	10	700	N	150	100
1414CN42	1,500	10	N	50	70	30	300	50	200	N
1415CN42	1,000	10	N	10	30	20	300	20	100	N
1416CN42	1,500	15	N	15	150	70	700	10	70	20
1418CN42	10,000	5	N	15	500	30	700	N	70	70
1419CN42	3,000	20	N	N	<20	10	300	10	200	N
1420CN42	>10,000	2	N	70	150	150	700	10	50	30
1422CN42	10,000	7	N	10	150	30	1,000	20	100	N
1424CN42	5,000	7	N	30	300	150	500	10	70	70
1425CN42	300	50	N	N	<20	N	1,000	70	200	N
1426CN42	300	15	N	N	20	<10	300	N	200	N
1427CN42	150	20	200	N	50	<10	2,000	15	700	N
1428CN42	700	<2	N	N	100	20	500	10	150	N
1429CN42	200	<2	N	<10	100	20	700	N	150	N
1430CN42	10,000	<2	>2,000	10	70	10	500	N	70	N
1431CN42	7,000	2	N	15	100	30	200	N	<50	N
1433CN42	1,000	<2	N	50	3,000	150	500	N	<50	150
1435CN13	700	2	N	<10	200	<10	700	N	200	N
1436CN13	700	<2	N	10	200	<10	1,000	N	70	50
1437CN13	300	N	N	N	100	<10	700	15	150	N
1439CN13	200	N	N	N	100	N	1,500	10	150	N
1441CN13	1,500	<2	N	N	70	<10	1,000	15	200	N
1444CN13	>10,000	<2	N	<5	30	<10	300	N	70	N
1445CN13	500	<2	N	N	100	<10	1,500	N	70	N
1447CN13	700	<2	N	<10	100	<10	1,500	N	70	N
1448CN13	1,500	<2	N	20	700	10	700	N	150	70
1449CN41	300	5	N	N	200	<10	1,000	15	300	20

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1053CN14	N	N	3,000	1,000	N	300	N	>2,000	N
1055CN14	150	N	3,000	100	N	70	N	1,500	N
1056CN14	20	N	2,000	70	N	500	N	700	N
1057CN14	500	50	300	200	N	500	N	>2,000	N
1058CN14	50	N	2,000	50	N	50	N	1,000	N
1059CN14	50	N	5,000	200	N	500	N	300	N
1061CN14	1,000	N	700	300	N	200	N	2,000	N
1062CN14	N	700	1,000	300	N	200	N	>2,000	N
1066CN14	20	700	700	200	N	300	N	>2,000	N
1068CN14	70	1,500	500	200	N	200	N	>2,000	N
1069CN14	N	N	300	200	N	70	N	1,000	N
1405CN13	150	N	700	100	N	500	N	>2,000	300
1406CN13	1,000	N	700	200	N	300	N	>2,000	700
1407CN13	50	N	500	70	N	200	N	>2,000	N
1408CN42	500	N	1,500	100	N	150	N	2,000	N
1409CN42	N	20	<200	150	N	300	N	>2,000	N
1410CN42	100	N	700	300	N	200	N	2,000	N
1411CN42	20	N	500	70	N	200	N	>2,000	200
1412CN42	30	50	700	150	N	1,000	N	>2,000	150
1414CN42	150	300	200	300	100	200	N	>2,000	N
1415CN42	500	100	300	150	N	200	N	>2,000	150
1416CN42	300	300	1,000	200	N	500	N	>2,000	300
1418CN42	100	30	1,000	150	N	300	N	>2,000	N
1419CN42	300	300	200	70	N	3,000	1,000	>2,000	2,000
1420CN42	300	N	1,000	100	N	200	N	1,000	N
1422CN42	100	N	1,000	200	N	200	N	>2,000	150
1424CN42	150	N	1,000	300	N	200	300	>2,000	N
1425CN42	500	1,000	200	70	N	2,000	1,000	>2,000	5,000
1426CN42	300	1,500	200	70	N	500	700	>2,000	1,000
1427CN42	700	100	<200	50	N	2,000	1,000	>2,000	2,000
1428CN42	50	15	700	300	N	300	300	>2,000	300
1429CN42	50	N	500	200	N	300	N	>2,000	200
1430CN42	500	N	300	150	70	300	N	>2,000	300
1431CN42	30	N	1,000	150	N	100	N	>2,000	N
1433CN42	1,500	20	1,500	500	N	200	N	>2,000	N
1435CN13	20	N	1,000	100	N	300	N	>2,000	500
1436CN13	N	N	1,000	300	N	500	N	>2,000	N
1437CN13	N	20	500	300	N	500	N	>2,000	N
1439CN13	N	30	700	200	N	700	N	>2,000	150
1441CN13	N	N	700	200	N	500	N	>2,000	150
1444CN13	20	N	2,000	70	N	200	N	>2,000	N
1445CN13	20	50	1,000	300	N	300	N	>2,000	300
1447CN13	500	15	1,000	70	N	300	N	>2,000	150
1448CN13	20	N	300	300	N	300	N	>2,000	150
1449CN41	70	50	200	150	N	1,000	N	>2,000	300

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1450CN41	38 19 18	112 21 41	1.5	.70	10.00	2.000	1,000	N	N	30
1452CN41	38 19 20	112 21 6	5.0	1.00	7.00	>2.000	2,000	N	N	20
1453CN41	38 16 2	112 29 17	1.5	2.00	10.00	>2.000	2,000	N	N	100
1460CN13	38 39 38	112 33 17	2.0	.70	15.00	1.500	700	N	N	300
1461CN13	38 38 26	112 33 37	1.5	.70	7.00	>2.000	300	N	N	300
1462CN13	38 38 40	112 36 0	.7	.50	7.00	1.000	500	N	N	100
1464CN13	38 37 58	112 35 23	1.5	.70	5.00	>2.000	1,500	N	N	200
1465CN13	38 36 20	112 33 53	3.0	.50	3.00	1.500	2,000	N	N	200
1466CN13	38 35 49	112 33 16	2.0	1.00	5.00	>2.000	1,500	N	N	200
1467CN13	38 37 21	112 32 13	1.5	5.00	10.00	1.500	1,000	N	N	150
1468CN41	38 15 52	112 27 38	1.5	1.50	3.00	>2.000	1,000	N	N	30
1469CN41	38 17 32	112 26 55	5.0	5.00	7.00	1.500	2,000	N	N	<20
1470CN41	38 18 1	112 26 57	2.0	.70	3.00	>2.000	5,000	N	N	30
1471CN41	38 18 7	112 28 5	5.0	10.00	10.00	1.000	1,500	N	N	<20
1473CN41	38 17 4	112 29 8	2.0	3.00	5.00	>2.000	2,000	N	N	20
1474CN41	38 17 16	112 25 15	1.5	3.00	5.00	>2.000	1,500	N	N	50
1476CN41	38 16 22	112 25 43	5.0	10.00	10.00	1.500	1,500	N	N	20
1477CN41	38 18 9	112 23 8	2.0	1.50	5.00	>2.000	3,000	N	N	150
1479CN41	38 17 26	112 23 52	1.0	1.00	3.00	>2.000	1,000	N	N	300
1480CN41	38 17 33	112 24 0	5.0	7.00	7.00	>2.000	3,000	N	N	20
1482CN41	38 19 42	112 26 1	1.5	1.00	5.00	>2.000	3,000	N	N	70
1505CN42	38 18 59	112 32 58	2.0	5.00	5.00	>2.000	1,500	N	N	150
1506CN42	38 19 25	112 32 35	1.5	.70	15.00	1.500	1,000	N	N	30
1508CN42	38 20 14	112 32 42	1.5	2.00	15.00	1.500	1,000	N	N	20
1509CN42	38 21 3	112 33 48	3.0	.70	1.50	>2.000	1,500	N	N	200
1510CN42	38 21 18	112 34 1	5.0	2.00	10.00	.500	1,500	N	N	30
1511CN42	38 22 19	112 34 6	5.0	2.00	15.00	2.000	1,500	N	N	20
1512CN42	38 23 9	112 34 0	7.0	.70	10.00	2.000	2,000	N	N	30
1513CN42	38 23 46	112 34 7	5.0	.30	3.00	>2.000	1,000	N	N	100
1514CN42	38 24 11	112 33 26	10.0	.30	3.00	>2.000	1,500	N	N	50
1515CN42	38 24 18	112 34 10	2.0	.20	5.00	>.002	700	2.0	N	100
1516CN42	38 20 51	112 32 45	7.0	.70	5.00	>2.000	2,000	N	N	70
1517CN42	38 21 2	112 32 35	7.0	1.00	2.00	>2.000	2,000	N	N	50
1518CN42	38 21 42	112 32 3	30.0	.50	5.00	.700	700	N	N	20
1519CN42	38 22 30	112 31 20	5.0	.70	3.00	>2.000	10,000	N	N	50
1520CN42	38 21 36	112 31 43	7.0	.50	10.00	>2.000	1,000	N	N	20
1521CN42	38 22 13	112 30 55	3.0	.30	3.00	>2.000	700	N	N	150
1522CN42	38 22 28	112 30 36	7.0	.70	1.00	>2.000	1,000	N	N	100
1523CN41	38 22 54	112 29 37	3.0	.30	5.00	>2.000	700	N	N	20
1524CN41	38 22 52	112 29 38	15.0	.30	1.00	>2.000	500	N	N	50
1525CN42	38 22 45	112 30 19	10.0	.30	.70	>2.000	700	N	N	100
1526CN42	38 23 0	112 30 58	10.0	.30	1.00	1.500	>10,000	N	N	150
1527CN42	38 23 7	112 31 6	10.0	.30	.50	2.000	>10,000	N	N	200
1528CN42	38 23 44	112 30 15	5.0	.30	.50	1.500	10,000	N	N	70
1529CN41	38 23 43	112 29 39	7.0	.30	1.00	1.000	>10,000	N	N	100

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1450CN41	300	<2	N	<10	150	<10	1,000	N	70	N
1452CN41	500	N	15	15	200	10	1,000	10	150	N
1453CN41	1,000	2	N	10	500	15	700	N	150	20
1460CN13	300	2	N	N	150	10	500	7	100	30
1461CN13	1,500	<2	N	N	100	70	500	10	70	50
1462CN13	500	2	N	N	100	<10	500	N	70	N
1464CN13	1,000	<2	N	10	150	<10	500	N	150	N
1465CN13	700	5	N	10	100	20	500	N	50	30
1466CN13	500	2	N	10	200	<10	700	N	100	N
1467CN13	2,000	<2	N	<10	150	10	300	N	70	N
1468CN41	500	<2	N	N	300	N	700	10	200	30
1469CN41	150	<2	N	30	1,000	10	300	N	200	300
1470CN41	200	7	N	N	150	<10	700	15	200	N
1471CN41	50	<2	N	30	1,500	<10	200	N	100	200
1473CN41	1,000	2	N	20	500	10	700	15	200	30
1474CN41	300	<2	N	N	500	N	700	N	200	100
1476CN41	70	N	N	50	1,500	10	100	N	<50	100
1477CN41	200	3	N	N	300	N	1,500	N	500	N
1479CN41	300	<2	N	<10	300	N	500	N	150	N
1480CN41	150	<2	N	30	1,000	<10	500	N	150	100
1482CN41	200	10	N	N	500	N	700	10	300	20
1505CN42	100	<2	N	20	1,000	<10	500	N	150	100
1506CN42	1,500	7	N	10	150	10	1,000	N	<50	N
1508CN42	5,000	<2	N	10	700	10	1,000	N	70	50
1509CN42	300	15	15	N	100	<10	700	30	300	N
1510CN42	300	5	N	10	700	20	500	10	50	50
1511CN42	1,000	3	N	10	500	50	1,500	N	<50	20
1512CN42	10,000	10	N	15	200	50	700	10	70	N
1513CN42	3,000	7	N	15	70	20	1,000	20	200	N
1514CN42	700	10	N	10	150	50	500	20	300	N
1515CN42	10,000	5	N	<10	100	30	300	70	150	N
1516CN42	2,000	15	N	15	100	50	700	15	150	N
1517CN42	>10,000	15	N	10	150	30	500	50	150	N
1518CN42	>10,000	3	N	100	100	200	500	N	<50	150
1519CN42	1,500	50	50	N	150	20	700	15	300	N
1520CN42	10,000	10	N	10	100	50	700	20	100	N
1521CN42	>10,000	7	N	<10	200	20	300	50	200	N
1522CN42	1,500	7	N	10	150	50	200	50	100	N
1523CN41	3,000	7	N	<10	150	50	500	20	100	N
1524CN41	10,000	7	N	<10	200	100	300	50	150	N
1525CN42	700	10	N	10	150	100	300	50	150	N
1526CN42	1,000	70	N	N	70	15	300	15	100	N
1527CN42	700	100	N	N	20	10	150	7	150	N
1528CN42	1,500	100	N	N	30	10	300	15	150	N
1529CN41	1,500	15	N	N	30	10	1,500	50	70	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1450CN41	200	100	1,000	100	N	300	N	>2,000	N
1452CN41	30	N	700	300	N	500	N	>2,000	500
1453CN41	30	100	1,000	200	N	500	N	>2,000	200
1460CN13	50	N	700	100	N	500	N	>2,000	150
1461CN13	30	N	700	200	N	500	N	>2,000	N
1462CN13	N	N	1,000	70	N	200	N	>2,000	150
1464CN13	100	N	700	100	N	300	N	>2,000	200
1465CN13	100	N	1,000	300	N	150	N	2,000	N
1466CN13	N	500	700	100	N	300	N	>2,000	500
1467CN13	20	N	300	200	N	200	N	>2,000	N
1468CN41	N	200	500	150	N	500	N	>2,000	200
1469CN41	N	15	200	200	N	300	N	>2,000	N
1470CN41	50	150	N	150	N	1,000	500	>2,000	500
1471CN41	N	N	200	200	N	200	N	2,000	N
1473CN41	20	100	200	150	N	700	N	>2,000	200
1474CN41	N	50	200	100	N	500	N	>2,000	200
1476CN41	N	N	200	300	N	150	N	>2,000	N
1477CN41	30	150	200	100	N	3,000	300	>2,000	300
1479CN41	N	100	700	100	N	500	N	>2,000	300
1480CN41	20	30	200	500	N	500	N	>2,000	N
1482CN41	20	300	<200	200	N	3,000	1,000	>2,000	700
1505CN42	300	300	<200	150	N	500	N	>2,000	200
1506CN42	N	100	1,000	70	N	300	N	>2,000	150
1508CN42	300	50	1,000	70	N	200	N	>2,000	150
1509CN42	300	100	<200	100	N	1,000	500	>2,000	1,500
1510CN42	20	70	1,000	200	N	200	N	>2,000	150
1511CN42	100	N	1,000	200	N	300	N	>2,000	N
1512CN42	200	1,000	1,000	200	N	100	N	>2,000	200
1513CN42	150	200	300	150	70	200	N	>2,000	150
1514CN42	150	70	300	200	N	200	N	>2,000	200
1515CN42	150	200	2,000	300	70	200	N	>2,000	N
1516CN42	100	500	700	300	N	300	N	>2,000	300
1517CN42	300	300	1,500	300	70	300	N	>2,000	150
1518CN42	100	N	1,000	100	N	200	700	>2,000	N
1519CN42	1,500	N	300	150	N	1,000	N	>2,000	1,500
1520CN42	70	100	1,000	300	700	200	N	>2,000	150
1521CN42	300	500	1,500	300	100	200	N	>2,000	150
1522CN42	100	N	300	500	70	100	N	>2,000	N
1523CN41	100	N	1,500	300	70	200	N	2,000	N
1524CN41	150	>2,000	1,000	500	100	200	N	>2,000	150
1525CN42	150	N	500	300	N	300	N	>2,000	150
1526CN42	1,500	200	200	100	N	1,500	1,000	>2,000	1,500
1527CN42	700	500	N	70	N	>5,000	700	>2,000	5,000
1528CN42	500	>2,000	N	70	N	>5,000	700	>2,000	5,000
1529CN41	700	N	N	50	N	3,000	700	>2,000	5,000

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1531CN42	38 23 27	112 30 33	10.0	1.00	2.00	.300	>10,000	N	N	100
1532CN41	38 24 1	112 29 14	2.0	.30	1.00	1.000	2,000	N	N	200
1533CN41	38 23 56	112 29 13	1.5	.10	.70	1.000	7,000	N	N	70
1534CN41	38 23 59	112 29 3	15.0	.15	1.00	>2.000	5,000	N	N	30
1535CN41	38 24 56	112 29 41	3.0	.10	1.50	.700	10,000	N	N	70
1536CN41	38 25 1	112 29 28	5.0	.70	1.50	.500	3,000	N	N	50
1537CN41	38 25 13	112 29 10	7.0	.50	1.50	2.000	10,000	N	N	70
1539CN41	38 25 20	112 28 50	1.5	.20	1.00	.300	7,000	N	N	100
1540CN41	38 25 40	112 29 3	3.0	.30	1.50	2.000	7,000	N	N	70
1541CN41	38 25 34	112 29 4	7.0	.20	.15	>2.000	>10,000	N	N	150
1543CN41	38 25 9	112 29 57	3.0	1.00	2.00	1.000	7,000	N	N	150
1544CN41	38 25 17	112 28 12	3.0	.50	1.50	1.000	3,000	N	N	100
1545CN41	38 25 21	112 28 12	2.0	.50	1.50	1.000	7,000	N	N	200
1547CN41	38 25 49	112 28 37	3.0	.20	1.50	1.000	10,000	N	N	70
1550CN41	38 25 48	112 28 17	2.0	.20	1.00	1.000	10,000	N	N	150
1551CN41	38 26 18	112 28 42	2.0	.50	1.00	.700	2,000	N	N	150
1553CN42	38 24 57	112 30 3	5.0	.70	1.50	1.500	7,000	N	N	70
1554CN42	38 25 6	112 30 21	7.0	.30	.50	>2.000	10,000	N	N	150
1555CN42	38 25 24	112 30 23	3.0	.70	1.00	1.000	5,000	N	N	100
1556CN42	38 25 11	112 30 31	7.0	.30	.70	2.000	>10,000	N	N	100
1557CN42	38 25 42	112 30 55	15.0	.70	1.00	>2.000	10,000	N	N	50
1558CN42	38 27 10	112 30 35	3.0	.30	1.00	2.000	7,000	N	N	50
1559CN42	38 26 55	112 30 42	5.0	.70	1.50	2.000	10,000	N	N	100
1561CN42	38 26 34	112 31 22	5.0	.70	5.00	2.000	2,000	N	N	50
1562CN42	38 25 38	112 32 34	5.0	.20	3.00	>2.000	1,000	N	N	50
1563CN42	38 26 0	112 33 26	2.0	1.50	3.00	>2.000	1,000	N	700	300
1564CN42	38 25 11	112 34 52	5.0	.50	1.50	>2.000	1,000	N	N	150
1565CN42	38 24 42	112 34 51	7.0	.20	2.00	>2.000	1,000	N	N	50
1566CN42	38 27 4	112 34 42	2.0	1.00	5.00	>2.000	2,000	N	N	100
1567CN42	38 27 7	112 34 18	1.5	1.00	3.00	1.500	1,000	N	N	30
1568CN42	38 26 54	112 34 1	3.0	.50	5.00	>2.000	1,500	N	N	100
1569CN42	38 26 59	112 33 35	2.0	.30	10.00	>2.000	1,500	N	N	50
1570CN42	38 27 7	112 33 9	7.0	.50	3.00	>2.000	1,500	N	N	30
1571CN42	38 27 27	112 32 22	10.0	1.50	3.00	>2.000	2,000	N	N	20
1572CN42	38 27 24	112 32 21	20.0	.50	2.00	2.000	1,000	N	N	20
1573CN42	38 27 23	112 32 36	5.0	.50	3.00	>2.000	1,000	N	N	20
1575CN42	38 27 49	112 34 43	3.0	2.00	5.00	>2.000	5,000	N	N	30
1576CN41	38 21 23	112 22 53	3.0	5.00	7.00	1.000	2,000	N	N	<20
1580CN41	38 23 26	112 23 2	5.0	.70	30.00	2.000	3,000	N	N	<20
1582CN41	38 25 28	112 23 56	5.0	.30	2.00	>2.000	10,000	N	N	50
1583CN41	38 25 6	112 23 14	7.0	.30	7.00	>2.000	1,500	N	N	30
1584CN41	38 24 54	112 23 22	7.0	.15	1.50	>2.000	7,000	N	N	20
1585CN41	38 24 52	112 23 20	50.0	.50	3.00	1.000	1,000	3.0	N	70
1586CN41	38 25 41	112 23 20	.7	.30	.50	.300	2,000	N	N	20
1587CN41	38 25 38	112 23 38	15.0	.50	1.50	>2.000	>10,000	N	N	20

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1531CN42	1,000	20	N	N	300	<10	100	30	70	20
1532CN41	1,500	7	N	N	30	10	500	10	150	N
1533CN41	300	15	N	N	<20	<10	1,000	20	500	N
1534CN41	700	20	30	N	20	7	1,000	50	500	N
1535CN41	5,000	50	N	N	70	<10	300	15	200	N
1536CN41	700	50	N	N	300	<10	200	20	150	N
1537CN41	500	20	N	N	70	<10	300	20	150	N
1539CN41	5,000	15	N	N	20	N	100	N	100	N
1540CN41	300	10	N	N	30	<10	1,000	N	500	N
1541CN41	3,000	50	N	N	<20	<10	1,500	N	200	N
1543CN41	200	20	N	N	150	<10	200	N	150	20
1544CN41	700	15	N	N	30	15	150	N	100	N
1545CN41	500	15	N	N	30	N	300	20	150	N
1547CN41	500	20	N	N	20	10	500	N	200	N
1550CN41	1,500	15	N	N	<20	10	1,000	7	300	N
1551CN41	300	20	N	N	30	N	100	N	100	N
1553CN42	500	50	N	N	50	10	200	10	200	N
1554CN42	300	100	N	N	30	<10	200	N	150	N
1555CN42	300	15	15	N	20	<10	100	N	200	N
1556CN42	700	20	N	N	20	<10	500	15	500	N
1557CN42	300	30	N	N	50	<10	700	10	700	N
1558CN42	700	15	N	N	100	<10	1,000	10	300	N
1559CN42	200	15	20	<10	30	<10	700	N	300	N
1561CN42	>10,000	7	N	N	200	20	1,500	20	200	N
1562CN42	7,000	7	N	10	100	30	500	10	100	N
1563CN42	500	<2	N	10	50	20	500	10	150	N
1564CN42	1,000	3	50	10	150	50	300	10	100	N
1565CN42	10,000	3	500	<10	200	30	300	20	150	N
1566CN42	1,500	2	N	10	300	10	500	N	200	20
1567CN42	700	<2	N	10	200	10	300	N	100	N
1568CN42	1,500	2	N	15	50	50	500	15	70	N
1569CN42	7,000	<2	N	10	50	10	700	N	70	N
1570CN42	>10,000	2	N	20	100	30	500	10	70	20
1571CN42	3,000	<2	N	30	100	30	500	N	150	N
1572CN42	5,000	2	N	100	100	100	300	N	70	50
1573CN42	>10,000	<2	N	20	100	20	300	10	150	N
1575CN42	1,000	2	N	20	700	15	500	N	200	70
1576CN41	200	N	N	15	1,000	<10	700	N	<50	100
1580CN41	1,500	N	N	15	150	30	1,500	N	N	N
1582CN41	700	20	15	N	100	<10	700	30	500	N
1583CN41	1,500	7	N	15	70	50	700	N	100	N
1584CN41	700	15	100	N	70	70	500	70	700	N
1585CN41	10,000	7	N	100	100	200	500	N	70	150
1586CN41	300	7	N	N	20	<10	50	N	100	N
1587CN41	700	30	N	20	70	50	700	200	700	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1531CN42	300	>2,000	500	70	N	2,000	700	>2,000	1,500
1532CN41	300	N	<200	70	N	300	N	>2,000	3,000
1533CN41	700	15	<200	50	N	1,000	500	>2,000	5,000
1534CN41	300	200	N	70	N	1,500	700	>2,000	2,000
1535CN41	500	200	200	100	N	>5,000	700	>2,000	3,000
1536CN41	100	150	<200	50	N	1,500	1,500	>2,000	2,000
1537CN41	700	20	N	70	N	>5,000	N	>2,000	3,000
1539CN41	20	70	200	50	N	1,000	500	>2,000	2,000
1540CN41	150	500	200	70	N	700	500	>2,000	1,500
1541CN41	700	300	N	50	N	>5,000	700	>2,000	3,000
1543CN41	N	100	<200	70	N	700	700	>2,000	1,500
1544CN41	30	200	200	100	N	700	N	>2,000	1,500
1545CN41	700	N	200	50	N	700	500	>2,000	1,500
1547CN41	200	500	N	70	N	>5,000	700	>2,000	5,000
1550CN41	200	N	N	50	N	>5,000	700	>2,000	>5,000
1551CN41	70	500	N	100	N	1,000	N	>2,000	1,000
1553CN42	700	300	200	50	N	3,000	1,000	>2,000	2,000
1554CN42	300	1,000	N	50	N	>5,000	500	>2,000	5,000
1555CN42	100	300	<200	70	N	500	700	>2,000	1,000
1556CN42	1,500	100	N	150	N	2,000	700	>2,000	1,500
1557CN42	700	500	<200	50	N	1,500	700	>2,000	2,000
1558CN42	1,000	300	<200	70	N	500	300	>2,000	1,500
1559CN42	500	50	200	70	N	500	N	>2,000	N
1561CN42	150	700	1,000	200	N	500	N	>2,000	500
1562CN42	300	N	1,000	150	N	200	N	>2,000	200
1563CN42	30	N	300	200	N	300	N	>2,000	500
1564CN42	100	N	500	300	N	200	N	>2,000	150
1565CN42	100	N	1,500	700	N	200	N	>2,000	N
1566CN42	70	15	700	200	N	500	500	>2,000	500
1567CN42	150	300	1,000	100	N	300	500	>2,000	300
1568CN42	100	N	300	150	N	500	N	>2,000	N
1569CN42	50	N	700	100	70	300	N	>2,000	150
1570CN42	70	N	1,000	200	N	200	N	>2,000	N
1571CN42	300	N	300	300	N	300	500	>2,000	150
1572CN42	150	N	500	200	N	150	N	>2,000	N
1573CN42	70	N	1,000	100	N	300	N	>2,000	150
1575CN42	70	30	700	150	N	500	N	>2,000	500
1576CN41	N	N	700	300	N	200	300	>2,000	N
1580CN41	50	N	1,000	300	N	300	N	>2,000	N
1582CN41	500	200	200	100	N	500	N	>2,000	700
1583CN41	100	N	1,000	200	N	300	N	>2,000	N
1584CN41	1,000	300	<200	100	N	500	500	>2,000	700
1585CN41	500	200	500	150	N	100	N	2,000	N
1586CN41	500	N	<200	30	N	70	N	>2,000	N
1587CN41	1,000	300	200	150	70	300	N	>2,000	300

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1588CN41	38 25 53	112 22 56	2.0	.30	3.00	>2.000	10,000	N	N	30
1590CN41	38 26 2	112 22 25	15.0	1.00	5.00	>2.000	1,500	N	N	20
1591CN41	38 25 46	112 22 42	7.0	3.00	3.00	1.500	2,000	N	N	30
1592CN42	38 16 52	112 34 4	1.0	1.00	7.00	>2.000	3,000	N	N	20
1593CN42	38 16 22	112 33 27	5.0	10.00	10.00	1.500	3,000	N	N	70
1594CN41	38 27 31	112 15 45	3.0	.70	2.00	>2.000	7,000	N	N	150
1595CN41	38 27 30	112 17 17	5.0	.50	5.00	>2.000	7,000	N	N	30
1596CN41	38 27 31	112 21 8	20.0	.20	7.00	.200	200	7.0	1,000	<20
1598CN41	38 29 15	112 19 54	3.0	.50	2.00	>2.000	700	N	N	100
1654CN14	38 41 16	112 10 49	5.0	7.00	10.00	>2.000	2,000	N	N	100
1666CN14	38 40 48	112 12 3	5.0	7.00	7.00	.700	2,000	N	N	70
1667CN14	38 41 56	112 13 56	2.0	3.00	7.00	>2.000	1,000	N	N	100
1668CN14	38 34 3	112 7 41	7.0	1.00	7.00	>2.000	5,000	1.0	N	20
1670CN14	38 36 55	112 9 47	2.0	1.00	7.00	>2.000	5,000	N	N	50
1671CN14	38 35 52	112 10 52	7.0	1.00	3.00	>2.000	7,000	N	N	50
1672CN14	38 33 28	112 11 4	1.5	1.50	5.00	>2.000	3,000	N	N	50
1673CN14	38 32 6	112 8 15	3.0	.50	10.00	>2.000	2,000	N	N	100
1674CN14	38 30 53	112 8 29	5.0	.70	10.00	>2.000	3,000	N	N	50
1675CN14	38 30 56	112 10 31	1.0	.20	10.00	>2.000	1,000	N	N	<20
1676CN14	38 31 11	112 11 52	.2	.10	7.00	2.000	700	N	N	100
1677CN14	38 30 20	112 14 3	.7	.30	7.00	>2.000	700	N	N	70
1678CN14	38 32 13	112 14 34	10.0	5.00	7.00	2.000	3,000	N	N	30
1679CN14	38 32 18	112 12 44	7.0	.30	.20	>2.000	700	N	N	70
1680CN14	38 34 10	112 13 34	2.0	1.50	10.00	.300	2,000	N	N	<20
1681CN14	38 35 55	112 13 19	2.0	5.00	10.00	1.500	1,500	N	N	20
1682CN14	38 34 48	112 14 52	5.0	15.00	10.00	.300	2,000	N	N	N
1683CN14	38 34 47	112 14 55	3.0	5.00	7.00	1.000	2,000	N	N	30
1684CN41	38 34 44	112 14 56	1.5	3.00	5.00	1.000	2,000	N	N	50
1685CN14	38 35 59	112 15 29	1.5	2.00	7.00	>2.000	1,500	N	N	200
1686CN14	38 36 18	112 16 53	3.0	7.00	10.00	>2.000	3,000	N	N	150
1687CN14	38 37 48	112 15 4	2.0	1.50	7.00	1.500	700	N	N	200
1689CN14	38 40 15	112 16 10	1.5	.70	3.00	.700	700	N	N	200
1698CN14	38 41 30	112 19 22	2.0	5.00	10.00	2.000	1,500	N	N	50
1699CN14	38 42 21	112 17 23	2.0	3.00	10.00	2.000	1,000	N	N	200
1702CN14	38 37 58	112 26 58	5.0	.70	3.00	>2.000	1,500	N	N	50
1703CN14	38 39 42	112 25 24	1.5	.70	3.00	>2.000	700	N	N	100
1705CN14	38 40 5	112 23 51	1.5	.30	3.00	1.500	700	N	N	20
1707CN14	38 40 9	112 23 42	2.0	.50	5.00	1.500	700	N	N	20
1708CN14	38 39 38	112 23 38	1.5	1.00	3.00	>2.000	1,000	N	N	50
1709CN14	38 38 14	112 23 53	.7	.70	5.00	.700	500	N	N	50
1711CN14	38 40 12	112 26 40	2.0	5.00	5.00	.300	1,000	N	N	50
1713CN14	38 38 57	112 28 13	10.0	2.00	5.00	1.500	1,500	N	N	20
1714CN14	38 41 21	112 27 25	2.0	3.00	5.00	>2.000	1,500	N	N	300
1715CN14	38 41 44	112 28 9	3.0	.70	3.00	>2.000	700	N	N	1,000
1718CN14	38 42 11	112 24 22	3.0	3.00	10.00	2.000	700	N	N	150

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1588CN41	1,000	15	N	N	50	<10	500	30	200	N
1590CN41	>10,000	5	N	30	200	50	500	7	<50	20
1591CN41	1,000	5	N	20	500	50	500	7	<50	70
1592CN42	100	N	N	N	300	<10	2,000	N	200	N
1593CN42	300	<2	N	30	1,000	15	1,000	N	70	100
1594CN41	1,500	7	20	<10	100	10	700	10	700	N
1595CN41	300	20	N	N	70	<10	700	7	300	N
1596CN41	200	<2	N	100	100	700	50	7	N	150
1598CN41	3,000	7	20	<10	300	70	200	15	100	N
1654CN14	700	<2	N	20	1,000	<10	500	N	100	100
1666CN14	300	N	N	50	100	20	100	N	<50	50
1667CN14	700	<2	N	20	300	<10	500	N	70	20
1668CN14	>10,000	3	N	50	100	100	1,000	20	70	N
1670CN14	200	3	N	10	700	20	700	10	200	70
1671CN14	300	7	N	N	500	10	1,000	20	150	20
1672CN14	500	3	N	N	500	10	1,500	15	150	20
1673CN14	2,000	5	N	10	20	30	1,000	15	100	N
1674CN14	1,000	3	N	10	100	30	1,000	15	100	N
1675CN14	10,000	2	N	N	100	15	1,500	N	500	N
1676CN14	5,000	<2	N	N	30	10	700	N	50	N
1677CN14	150	N	N	N	70	<10	700	N	70	N
1678CN14	>10,000	<2	N	50	300	70	300	N	70	20
1679CN14	5,000	<2	N	<10	200	10	300	20	150	N
1680CN14	>10,000	N	N	10	150	<10	700	N	N	N
1681CN14	500	N	15	20	1,500	<7	300	N	50	100
1682CN14	10,000	N	N	50	2,000	<10	700	N	N	150
1683CN14	5,000	N	N	20	1,000	<10	>2,000	10	70	70
1684CN41	2,000	<2	N	10	700	<10	2,000	N	100	N
1685CN14	5,000	2	N	N	1,000	<10	700	N	150	N
1686CN14	2,000	3	N	N	700	<10	700	10	300	20
1687CN14	700	<2	N	10	200	20	200	N	70	N
1689CN14	500	5	N	<10	20	<10	150	N	N	N
1698CN14	10,000	<2	N	15	1,000	<10	300	N	100	50
1699CN14	>10,000	N	N	10	500	<10	700	N	100	70
1702CN14	500	2	N	30	150	30	200	N	100	N
1703CN14	1,000	2	N	<10	150	20	300	N	100	N
1705CN14	1,500	2	N	10	70	<10	200	N	70	N
1707CN14	3,000	3	N	<10	30	10	300	N	70	N
1708CN14	500	<2	N	N	200	15	300	N	100	N
1709CN14	500	<2	N	<10	150	N	300	N	50	N
1711CN14	500	<2	N	15	1,000	<10	70	N	N	100
1713CN14	>10,000	2	N	70	1,000	100	200	N	<50	50
1714CN14	5,000	N	N	15	1,000	N	>2,000	N	150	70
1715CN14	2,000	<2	N	N	100	15	300	N	150	N
1718CN14	700	<2	N	10	700	<10	300	N	70	50

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1588CN41	1,000	200	200	70	N	500	300	2,000	300
1590CN41	150	N	1,500	500	70	150	N	>2,000	N
1591CN41	100	N	500	500	N	150	N	1,500	N
1592CN42	100	300	N	100	N	5,000	N	>2,000	200
1593CN42	20	N	300	150	N	500	N	>2,000	200
1594CN41	500	150	200	100	N	500	N	>2,000	1,500
1595CN41	200	200	200	70	N	700	300	>2,000	500
1596CN41	300	N	200	50	N	70	N	1,000	N
1598CN41	200	N	1,000	500	N	150	N	>2,000	200
1654CN14	150	300	700	200	N	500	N	>2,000	200
1666CN14	N	N	500	300	N	150	N	2,000	N
1667CN14	N	N	700	300	N	200	N	>2,000	200
1668CN14	150	N	10,000	300	N	150	N	1,000	N
1670CN14	N	300	700	100	N	700	N	>2,000	700
1671CN14	500	200	200	150	N	300	1,500	>2,000	1,500
1672CN14	300	70	500	100	N	700	500	>2,000	700
1673CN14	150	N	500	150	N	300	N	>2,000	150
1674CN14	150	>2,000	700	150	N	300	N	>2,000	N
1675CN14	200	50	700	150	N	700	N	>2,000	700
1676CN14	N	500	500	50	N	500	700	>2,000	700
1677CN14	50	N	500	100	N	300	500	>2,000	500
1678CN14	50	N	1,000	500	N	200	N	>2,000	N
1679CN14	150	N	1,500	300	N	30	N	1,500	N
1680CN14	N	N	5,000	1,000	N	200	N	2,000	N
1681CN14	30,000	N	300	150	N	300	N	>2,000	N
1682CN14	500	N	1,000	500	N	200	N	>2,000	N
1683CN14	200	N	700	5,000	N	300	N	>2,000	1,500
1684CN41	20	N	1,500	1,000	N	300	N	>2,000	N
1685CN14	N	300	300	100	N	500	N	>2,000	500
1686CN14	20	>2,000	200	150	N	700	N	>2,000	1,000
1687CN14	15,000	N	1,000	100	N	200	N	>2,000	N
1689CN14	20	N	1,500	70	N	50	N	>2,000	N
1698CN14	20	N	700	150	N	500	N	>2,000	N
1699CN14	70	N	1,000	150	N	500	N	>2,000	150
1702CN14	200	N	700	150	N	200	300	>2,000	150
1703CN14	100	N	500	150	N	200	N	>2,000	150
1705CN14	50	N	1,500	150	N	200	N	2,000	N
1707CN14	20	N	2,000	100	N	150	N	>2,000	N
1708CN14	N	N	500	100	N	500	300	>2,000	N
1709CN14	70	N	700	50	N	200	500	>2,000	200
1711CN14	N	N	1,500	150	N	150	N	>2,000	500
1713CN14	200	N	1,000	300	N	100	N	>2,000	N
1714CN14	150	N	300	70	N	500	N	>2,000	1,500
1715CN14	300	N	700	200	N	500	500	>2,000	150
1718CN14	N	N	700	150	N	200	N	>2,000	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1720CN14	38 35 45	112 28 38	1.0	.50	3.00	1.500	500	N	N	70
1721CN14	38 36 10	112 26 39	1.5	2.00	3.00	1.500	1,000	N	N	100
1722CN14	38 35 21	112 27 22	1.0	.50	10.00	1.000	1,000	N	N	50
1723CN14	38 32 37	112 28 19	5.0	1.00	2.00	>2.000	5,000	N	N	100
1724CN14	38 32 48	112 26 54	2.0	2.00	5.00	>2.000	5,000	N	N	300
1725CN14	38 32 19	112 26 44	2.0	.50	3.00	>2.000	7,000	N	N	200
1726CN14	38 34 29	112 25 16	5.0	7.00	7.00	.500	3,000	N	N	20
1727CN14	38 34 47	112 19 45	15.0	1.50	3.00	>2.000	10,000	N	N	30
1728CN14	38 34 9	112 19 53	5.0	7.00	7.00	>2.000	7,000	N	N	150
1730CN14	38 32 53	112 22 16	2.0	1.50	5.00	>2.000	3,000	N	N	500
1731CN14	38 33 46	112 22 1	2.0	1.50	15.00	2.000	1,500	N	N	150
1732CN14	38 33 35	112 23 55	1.5	3.00	5.00	2.000	1,000	N	N	150
1733CN14	38 33 38	112 23 46	2.0	2.00	5.00	1.500	2,000	N	N	50
1735CN14	38 33 12	112 25 41	2.0	.70	3.00	>2.000	3,000	N	N	500
1737CN14	38 32 37	112 24 39	1.5	1.00	5.00	>2.000	5,000	N	N	300
1738CN14	38 32 38	112 23 25	5.0	2.00	5.00	>2.000	5,000	N	N	200
1739CN14	38 30 58	112 25 15	10.0	.70	3.00	>2.000	10,000	N	N	50
1740CN14	38 31 50	112 23 26	1.0	.30	5.00	>2.000	2,000	N	N	150
1741CN14	38 30 58	112 23 44	10.0	.70	3.00	>2.000	2,000	N	N	70
1742CN14	38 33 53	112 17 49	3.0	1.50	3.00	1.500	2,000	N	N	150
1743CN14	38 30 48	112 19 22	3.0	7.00	10.00	>2.000	3,000	N	N	150
1744CN41	38 21 31	112 14 14	3.0	.70	5.00	2.000	1,000	N	N	70
1745CN41	38 19 38	112 13 39	5.0	1.00	3.00	1.500	1,500	N	N	20
1747CN41	38 19 9	112 13 24	2.0	1.50	3.00	1.000	1,000	N	N	100
1749CN41	38 18 14	112 14 16	5.0	5.00	10.00	1.000	1,500	N	N	30
1750CN41	38 20 25	112 9 49	3.0	5.00	7.00	1.000	1,500	N	N	<20
1752CN41	38 18 10	112 9 50	5.0	10.00	10.00	1.500	1,500	N	N	150
1753CN41	38 16 29	112 7 39	2.0	3.00	5.00	1.000	1,000	N	N	100
1754CN41	38 18 20	112 8 43	5.0	5.00	5.00	1.000	1,000	N	N	150
1755CN41	38 29 30	112 27 16	10.0	3.00	5.00	2.000	10,000	N	N	30
1756CN41	38 28 29	112 27 21	5.0	.50	1.00	>2.000	10,000	N	N	150
1757CN41	38 28 0	112 27 1	7.0	1.00	2.00	2.000	7,000	N	N	70
1758CN41	38 28 0	112 27 7	5.0	1.00	1.50	2.000	2,000	N	N	200
1760CN41	38 29 20	112 26 26	15.0	3.00	7.00	>2.000	1,500	N	N	30
1761CN14	38 33 47	112 16 26	7.0	3.00	5.00	.500	3,000	N	N	20
1762CN14	38 32 11	112 16 10	5.0	2.00	5.00	1.000	3,000	N	N	20
1764CN14	38 32 4	112 16 22	5.0	.30	2.00	.500	1,000	N	N	<20
1765CN14	38 31 3	112 15 58	7.0	.30	.70	2.000	300	N	N	150
1771CN41	38 15 19	112 10 15	5.0	5.00	15.00	.700	3,000	N	N	20
1772CN41	38 16 41	112 11 18	3.0	3.00	7.00	.700	1,000	N	N	70
1773CN41	38 17 45	112 11 38	5.0	5.00	10.00	.500	2,000	N	N	20
1776CN41	38 21 1	112 6 23	5.0	1.50	5.00	.700	1,000	N	N	100
1777CN41	38 22 25	112 4 54	7.0	15.00	15.00	.300	2,000	N	N	<20
1778CN41	38 22 35	112 4 48	2.0	5.00	10.00	1.000	700	N	N	20
1779CN44	38 23 6	112 3 45	3.0	7.00	10.00	1.500	2,000	N	N	50

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1720CN14	300	<2	N	<10	70	<10	200	N	50	N
1721CN14	3,000	2	N	15	100	10	150	N	70	N
1722CN14	300	<2	N	N	50	<10	1,000	N	70	N
1723CN14	1,500	7	100	N	150	10	500	15	500	N
1724CN14	300	5	2,000	10	200	<10	1,000	10	500	N
1725CN14	200	15	N	N	70	N	1,000	7	500	N
1726CN14	300	<2	N	20	1,000	15	100	N	N	100
1727CN14	300	5	N	15	500	20	500	10	300	30
1728CN14	1,000	2	N	20	1,000	<10	500	10	200	70
1730CN14	300	3	N	10	500	10	700	15	300	N
1731CN14	2,000	5	N	<10	200	10	700	N	150	N
1732CN14	1,000	2	N	15	700	<10	300	N	100	100
1733CN14	2,000	2	N	20	300	<10	300	N	100	20
1735CN14	500	5	N	N	150	<10	700	N	200	N
1737CN14	300	10	N	N	200	<10	1,000	7	500	N
1738CN14	2,000	5	N	15	300	10	500	15	300	20
1739CN14	300	15	15	N	150	<10	700	15	300	N
1740CN14	200	10	N	N	100	N	1,500	N	200	N
1741CN14	1,000	10	N	15	150	100	1,000	7	150	N
1742CN14	700	3	N	10	200	10	300	N	100	N
1743CN14	2,000	2	N	N	1,000	10	1,000	10	200	70
1744CN41	>10,000	3	N	15	100	50	500	10	50	20
1745CN41	>10,000	2	N	20	150	30	300	N	N	50
1747CN41	>10,000	<2	N	10	300	15	300	N	<50	70
1749CN41	500	<2	N	20	1,000	15	300	N	<50	200
1750CN41	200	<2	20	20	1,500	<10	300	N	70	150
1752CN41	300	N	N	20	5,000	10	200	N	50	200
1753CN41	500	N	N	15	1,500	<10	150	N	50	100
1754CN41	700	<2	N	10	1,500	10	200	N	50	50
1755CN41	500	10	N	20	1,000	30	500	20	500	100
1756CN41	700	15	N	N	30	N	1,500	N	200	N
1757CN41	500	15	N	N	300	15	700	N	200	N
1758CN41	500	10	N	10	100	10	300	15	200	N
1760CN41	700	7	N	20	1,500	100	700	20	70	50
1761CN14	>10,000	<2	N	20	500	30	300	N	N	50
1762CN14	>10,000	2	N	20	100	70	200	N	<50	N
1764CN14	>10,000	2	N	10	20	50	200	N	N	N
1765CN14	>10,000	<2	N	15	70	150	50	7	50	N
1771CN41	500	<2	N	20	500	10	700	N	<50	50
1772CN41	2,000	2	N	10	700	15	200	N	<50	70
1773CN41	700	N	N	20	700	30	150	N	N	100
1776CN41	1,500	5	N	10	300	30	300	N	<50	20
1777CN41	300	N	N	70	5,000	20	200	N	N	200
1778CN41	3,000	<2	N	10	200	10	300	N	50	N
1779CN44	300	N	N	20	500	<10	200	N	<50	50

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1720CN14	N	N	700	50	N	200	700	>2,000	200
1721CN14	N	N	700	70	N	200	N	>2,000	150
1722CN14	N	N	1,000	70	N	300	N	>2,000	N
1723CN14	70	1,500	200	150	N	1,500	N	>2,000	500
1724CN14	50	300	300	150	N	700	N	>2,000	300
1725CN14	100	1,000	200	100	N	2,000	500	>2,000	1,000
1726CN14	N	N	500	200	N	100	N	>2,000	N
1727CN14	5,000	70	200	150	N	500	700	>2,000	300
1728CN14	70	20	200	200	N	500	N	>2,000	N
1730CN14	100	150	300	150	N	700	300	>2,000	700
1731CN14	20	15	700	100	N	500	N	>2,000	150
1732CN14	200	N	700	70	N	300	N	>2,000	150
1733CN14	<20	N	1,000	100	N	300	N	>2,000	N
1735CN14	30	200	300	150	N	500	N	>2,000	700
1737CN14	50	300	200	150	N	700	500	>2,000	700
1738CN14	100	70	300	200	N	500	500	>2,000	700
1739CN14	500	2,000	N	200	N	1,000	700	>2,000	1,500
1740CN14	150	300	<200	100	N	1,000	N	>2,000	1,000
1741CN14	500	20	500	200	N	300	N	>2,000	150
1742CN14	70	N	1,000	300	N	300	N	>2,000	300
1743CN14	100	70	500	200	N	1,500	N	>2,000	300
1744CN41	100	N	1,000	200	N	150	N	>2,000	N
1745CN41	50	N	1,500	200	N	150	N	2,000	N
1747CN41	20	N	1,000	150	N	200	N	>2,000	N
1749CN41	20	N	1,000	200	N	200	N	>2,000	N
1750CN41	N	200	300	200	N	300	N	>2,000	700
1752CN41	500	N	500	300	N	150	N	>2,000	N
1753CN41	N	N	500	150	N	150	N	>2,000	N
1754CN41	20	N	1,000	100	N	200	N	>2,000	N
1755CN41	500	N	300	300	N	300	1,000	>2,000	200
1756CN41	300	300	N	70	N	1,000	700	>2,000	1,500
1757CN41	1,000	70	200	150	N	500	N	>2,000	300
1758CN41	70	N	300	100	N	300	300	>2,000	700
1760CN41	300	N	700	500	70	200	N	2,000	N
1761CN14	50	N	1,500	300	N	100	N	2,000	N
1762CN14	50	N	1,500	300	N	70	N	2,000	N
1764CN14	70	N	7,000	100	N	70	N	2,000	N
1765CN14	70	N	>10,000	200	N	30	N	1,000	N
1771CN41	<20	N	700	300	N	200	N	>2,000	N
1772CN41	20	N	1,500	150	N	100	N	>2,000	150
1773CN41	N	N	700	200	N	100	N	1,500	N
1776CN41	50	N	1,000	300	N	200	N	>2,000	N
1777CN41	N	N	700	500	N	70	N	700	N
1778CN41	200	N	700	500	N	150	N	>2,000	N
1779CN44	20	N	500	300	N	150	N	2,000	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1780CN41	38 23 58	112 3 6	2.0	5.00	10.00	1.500	1,500	N	N	50
1781CN41	38 24 33	112 2 18	3.0	5.00	5.00	1.000	1,500	N	N	70
1783CN41	38 25 2	112 2 38	2.0	3.00	3.00	>2.000	1,000	N	N	150
1784CN41	38 24 27	112 0 39	3.0	5.00	7.00	.500	1,500	N	N	70
1786CN41	38 24 28	112 0 35	2.0	2.00	5.00	.300	1,000	N	N	20
1789CN41	38 29 21	112 0 9	1.5	2.00	3.00	2.000	1,000	N	N	50
1790CN41	38 27 40	112 3 48	2.0	2.00	10.00	1.000	1,000	N	N	20
1792CN41	38 29 19	112 4 22	5.0	7.00	10.00	1.500	1,500	N	N	20
1867CN13	38 30 24	112 35 16	3.0	3.00	10.00	1.000	1,500	N	N	150
1868CN13	38 30 20	112 35 3	3.0	5.00	10.00	1.500	2,000	N	N	70
1869CN13	38 30 12	112 34 58	3.0	5.00	7.00	>2.000	2,000	N	N	100
1870CN13	38 30 14	112 34 21	1.5	.30	5.00	>2.000	1,500	N	N	20
1871CN13	38 30 10	112 34 23	2.0	1.00	3.00	>2.000	1,000	N	N	300
1872CN13	38 30 11	112 34 1	2.0	.20	10.00	>2.000	1,000	N	N	30
1873CN13	38 30 7	112 34 3	2.0	.30	5.00	>2.000	1,000	N	N	70
1874CN13	38 30 7	112 33 48	2.0	.50	5.00	>2.000	1,500	N	N	100
1875CN42	38 27 0	112 34 27	3.0	.50	1.50	2.000	700	N	N	70
2122CN41	38 15 4	112 0 38	7.0	10.00	7.00	2.000	2,000	N	N	150
2124CN41	38 16 38	112 0 26	3.0	5.00	7.00	.700	1,500	N	N	50
2127CN41	38 18 24	112 2 32	3.0	5.00	7.00	.700	1,500	N	N	100
2128CN41	38 17 14	112 3 30	5.0	10.00	10.00	.700	3,000	N	N	30
2129CN41	38 19 3	112 3 51	3.0	5.00	7.00	>2.000	1,500	N	N	200
2131CN14	38 39 20	112 14 14	1.0	5.00	10.00	2.000	1,000	N	N	70
2133CN14	38 39 19	112 14 14	1.0	1.00	10.00	1.500	1,000	N	N	30
2134CN13	38 37 49	112 17 5	2.0	2.00	7.00	>2.000	1,500	N	N	50
2140CN13	38 39 50	112 29 37	1.5	.50	15.00	2.000	1,500	N	N	100
2141CN13	38 32 9	112 31 5	7.0	2.00	2.00	>2.000	3,000	N	N	50
2142CN13	38 33 18	112 30 13	2.0	5.00	7.00	>2.000	2,000	N	N	30
2143CN14	38 34 30	112 28 45	3.0	10.00	15.00	2.000	5,000	N	N	50
2144CN14	38 32 21	112 28 57	5.0	5.00	3.00	>2.000	2,000	N	N	70
2145CN14	38 30 50	112 27 32	3.0	.50	7.00	>2.000	2,000	N	N	50
2146CN13	38 30 59	112 21 36	7.0	.50	3.00	>2.000	>10,000	N	N	70
2147CN14	38 35 17	112 18 20	5.0	3.00	3.00	>2.000	7,000	N	N	100
2148CN14	38 35 25	112 21 35	1.5	1.50	7.00	1.000	1,500	N	N	30
2149CN14	38 36 59	112 24 5	1.0	.70	5.00	.200	700	N	N	20
2150CN13	38 31 59	112 35 2	1.5	.50	10.00	>2.000	3,000	N	N	30
2151CN41	38 29 23	112 10 56	50.0	2.00	3.00	>2.000	10,000	N	N	20
2152CN41	38 21 54	112 10 54	5.0	10.00	10.00	1.500	2,000	N	N	70
2153CN41	38 28 53	112 2 18	2.0	2.00	5.00	1.000	1,000	N	N	50
2154CN41	38 20 58	112 4 34	3.0	10.00	15.00	.700	3,000	N	N	N
2155CN41	38 19 19	112 6 17	10.0	10.00	10.00	1.500	7,000	N	N	N
2301CN41	38 28 41	112 20 36	15.0	.70	1.50	>2.000	1,500	N	N	50
2302CN41	38 28 30	112 20 49	5.0	.50	5.00	>2.000	1,500	N	N	70
2303CN41	38 28 32	112 20 52	7.0	1.00	1.50	>2.000	1,500	N	N	70
2304CN44	38 28 28	112 20 51	2.0	5.00	30.00	1.500	1,500	N	N	<20

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1780CN41	700	<2	N	15	1,000	15	300	N	50	150
1781CN41	7,000	2	N	15	500	15	200	N	<50	50
1783CN41	1,500	2	N	15	1,000	30	200	N	<50	30
1784CN41	500	<2	N	20	1,500	20	50	N	N	150
1786CN41	500	<2	N	15	1,000	10	N	N	N	70
1789CN41	200	<2	N	10	200	<10	300	N	100	20
1790CN41	300	2	N	10	500	20	700	N	<50	100
1792CN41	1,500	<2	N	50	2,000	30	300	N	N	100
1867CN13	1,000	<2	N	15	1,000	20	500	N	50	150
1868CN13	700	2	N	20	700	50	500	N	50	100
1869CN13	300	<2	N	20	1,000	10	500	N	200	150
1870CN13	200	3	N	10	50	<10	1,500	10	100	N
1871CN13	700	2	N	10	50	10	300	N	100	N
1872CN13	300	<2	N	N	70	<10	1,000	10	200	N
1873CN13	500	<2	N	<10	30	10	500	N	70	N
1874CN13	1,000	<2	N	10	70	15	1,000	10	200	N
1875CN42	>10,000	<2	N	20	50	20	150	N	50	N
2122CN41	700	<2	N	50	1,500	<10	200	N	100	150
2124CN41	500	<2	N	20	700	15	300	N	50	100
2127CN41	2,000	<2	N	20	1,500	10	500	N	<50	100
2128CN41	300	N	N	30	2,000	20	300	N	N	150
2129CN41	1,500	N	N	15	1,000	<10	700	N	150	70
2131CN14	10,000	N	N	<10	300	<10	500	N	100	N
2133CN14	1,500	<2	N	N	200	<10	1,000	N	70	N
2134CN13	500	<2	N	15	200	<10	500	N	150	20
2140CN13	150	<2	N	N	30	10	300	N	100	N
2141CN13	3,000	3	N	20	100	30	700	10	150	N
2142CN13	200	<2	N	N	1,500	<10	700	N	100	100
2143CN14	500	<2	N	30	1,000	10	500	10	100	70
2144CN14	3,000	2	N	20	50	20	500	10	150	N
2145CN14	500	7	20	10	200	30	500	20	500	N
2146CN13	2,000	10	N	N	200	10	300	10	200	N
2147CN14	700	7	N	15	500	20	500	10	200	50
2148CN14	300	<2	N	10	300	10	700	10	50	20
2149CN14	7,000	3	N	N	150	<10	500	N	N	N
2150CN13	200	<2	N	N	150	N	1,500	15	200	N
2151CN41	1,500	2	N	150	500	150	500	7	100	150
2152CN41	700	<2	N	50	3,000	20	300	N	70	200
2153CN41	1,000	2	N	15	700	15	300	N	<50	100
2154CN41	150	N	N	30	2,000	10	N	N	N	150
2155CN41	1,000	N	N	100	1,500	50	100	N	N	150
2301CN41	700	15	N	15	200	50	300	7	200	20
2302CN41	700	15	N	15	150	30	300	20	150	N
2303CN41	1,000	20	300	15	200	50	200	20	150	20
2304CN44	200	N	N	N	1,000	<10	1,500	N	<50	20

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
1780CN41	30	N	700	150	N	200	N	>2,000	N
1781CN41	2,000	N	1,000	150	N	200	N	>2,000	N
1783CN41	50	N	1,500	1,000	N	70	N	1,500	N
1784CN41	N	N	700	100	N	100	N	>2,000	N
1786CN41	N	N	1,500	100	N	50	N	1,500	N
1789CN41	N	N	200	50	N	300	N	>2,000	300
1790CN41	20	N	1,000	200	N	300	N	>2,000	200
1792CN41	20	N	1,000	300	N	200	N	1,500	N
1867CN13	20	30	1,500	150	N	200	N	>2,000	N
1868CN13	20	50	1,000	150	N	200	N	>2,000	N
1869CN13	N	200	300	200	N	500	N	>2,000	700
1870CN13	N	N	700	200	N	500	N	>2,000	N
1871CN13	N	N	500	150	N	300	N	>2,000	150
1872CN13	100	N	500	300	N	500	N	>2,000	150
1873CN13	50	N	500	150	N	300	N	>2,000	200
1874CN13	20	15	300	300	N	500	N	>2,000	150
1875CN42	<20	N	7,000	100	N	200	N	>2,000	N
2122CN41	70	200	500	300	N	300	N	>2,000	N
2124CN41	N	N	1,000	200	N	200	N	>2,000	150
2127CN41	20	N	500	150	N	200	N	>2,000	N
2128CN41	700	N	700	200	N	150	N	>2,000	N
2129CN41	20	20	700	300	N	700	N	>2,000	150
2131CN14	N	N	1,000	100	N	300	N	>2,000	N
2133CN14	N	N	1,000	70	N	300	N	N	N
2134CN13	N	700	700	200	N	300	N	>2,000	N
2140CN13	70	N	700	100	N	300	N	>2,000	150
2141CN13	100	300	300	300	N	700	N	>2,000	150
2142CN13	20	70	200	100	N	1,000	N	>2,000	200
2143CN14	30	200	300	100	N	300	N	>2,000	N
2144CN14	70	300	300	200	N	300	N	>2,000	200
2145CN14	100	100	500	300	N	500	N	>2,000	500
2146CN13	1,500	500	300	200	N	500	1,500	>2,000	500
2147CN14	70	70	200	200	N	500	N	>2,000	200
2148CN14	N	70	1,000	100	N	200	N	>2,000	N
2149CN14	N	N	1,500	50	N	150	N	>2,000	N
2150CN13	70	100	700	500	N	500	N	>2,000	150
2151CN41	100	N	200	700	N	200	700	2,000	N
2152CN41	100	15	1,000	300	N	300	N	>2,000	N
2153CN41	20	500	1,000	100	N	150	N	>2,000	N
2154CN41	20	N	300	100	N	70	N	700	N
2155CN41	50	N	700	500	N	100	N	500	N
2301CN41	200	N	700	500	N	200	N	>2,000	N
2302CN41	700	100	500	200	N	200	N	>2,000	150
2303CN41	200	15	500	200	N	150	N	>2,000	N
2304CN44	300	N	700	100	N	500	N	>2,000	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2305CN41	38 27 50	112 22 28	5.0	1.00	5.00	1.500	5,000	N	N	20
2306CN41	38 27 39	112 22 29	10.0	1.00	2.00	2.000	5,000	N	N	30
2307CN41	38 27 37	112 22 19	10.0	3.00	3.00	1.500	3,000	N	N	70
2309CN41	38 26 28	112 15 9	2.0	.30	3.00	2.000	2,000	N	N	30
2311CN41	38 26 23	112 18 44	7.0	1.50	3.00	2.000	1,000	N	N	30
2313CN41	38 24 58	112 18 37	5.0	.70	3.00	>.002	1,500	N	N	70
2314CN41	38 25 7	112 19 19	30.0	.30	1.50	.500	1,000	20.0	1,000	<20
2315CN41	38 29 14	112 15 9	2.0	.15	5.00	>2.000	3,000	N	N	30
2316CN41	38 28 23	112 14 24	2.0	5.00	10.00	2.000	2,000	N	N	50
2317CN41	38 28 52	112 13 14	5.0	1.00	5.00	>2.000	1,000	N	N	150
2319CN41	38 28 55	112 13 19	7.0	.50	3.00	>2.000	1,000	N	N	70
2320CN41	38 29 18	112 11 52	2.0	1.00	20.00	2.000	1,000	N	N	100
2321CN41	38 27 6	112 12 26	5.0	5.00	10.00	1.000	5,000	N	N	20
2322CN41	38 28 20	112 10 55	7.0	1.00	5.00	1.500	1,500	N	N	70
2323CN41	38 27 8	112 9 59	2.0	3.00	15.00	1.000	1,500	N	N	30
2324CN41	38 25 3	112 10 38	5.0	7.00	10.00	2.000	3,000	N	N	100
2325CN41	38 24 14	112 11 20	5.0	10.00	15.00	1.500	1,500	N	N	30
2326CN41	38 26 1	112 12 14	2.0	7.00	15.00	1.000	1,000	N	N	20
2327CN41	38 23 40	112 19 12	7.0	1.00	5.00	>2.000	1,000	N	N	<20
2329CN41	38 23 25	112 16 23	15.0	.70	3.00	1.500	1,000	70.0	N	50
2330CN41	38 21 48	112 17 7	10.0	1.00	.70	1.500	1,000	N	N	200
2332CN41	38 21 51	112 19 37	7.0	1.00	1.00	>2.000	1,000	N	N	<20
2333CN41	38 20 59	112 18 58	5.0	1.50	10.00	>2.000	2,000	N	N	N
2334CN41	38 22 10	112 15 29	5.0	2.00	2.00	2.000	1,000	100.0	N	100
2336CN41	38 15 59	112 15 36	2.0	.70	10.00	>2.000	1,500	700.0	N	20
2337CN41	38 17 43	112 15 41	2.0	5.00	10.00	1.500	1,000	N	N	150
2339CN41	38 16 16	112 17 39	3.0	7.00	5.00	.700	1,000	N	N	20
2340CN41	38 18 17	112 17 38	3.0	5.00	5.00	.200	1,500	N	N	50
2345CN42	38 16 37	112 31 31	2.0	1.50	5.00	>2.000	2,000	N	N	70
2346CN42	38 17 13	112 31 8	2.0	2.00	7.00	>2.000	3,000	N	N	20
2347CN42	38 20 26	112 31 19	3.0	2.00	5.00	>2.000	2,000	N	N	50
2348CN41	38 20 58	112 31 5	7.0	1.00	3.00	>2.000	1,500	N	N	2,000
2349CN41	38 20 31	112 29 22	7.0	1.00	2.00	>2.000	1,500	N	N	100
2350CN41	38 20 42	112 28 54	7.0	.70	.50	>2.000	1,500	N	N	100
2351CN41	38 20 35	112 28 54	15.0	2.00	3.00	>2.000	1,500	N	N	50
2352CN41	38 21 1	112 28 16	7.0	5.00	7.00	>2.000	3,000	N	N	100
2353CN41	38 20 59	112 28 23	2.0	.50	.70	>2.000	700	N	N	200
2354CN41	38 21 17	112 27 58	7.0	1.00	2.00	>2.000	1,000	N	N	100
2355CN41	38 21 4	112 27 6	3.0	1.50	10.00	1.500	1,500	N	N	50
2356CN41	38 21 3	112 27 7	3.0	1.50	15.00	1.500	1,500	N	N	150
2375CN42	38 29 20	112 32 7	1.5	.30	3.00	2.000	1,000	N	N	20
2376CN42	38 29 21	112 32 13	3.0	1.00	3.00	>2.000	2,000	N	N	150
2377CN42	38 28 2	112 31 43	7.0	.70	2.00	>2.000	2,000	N	N	50
2378CN42	38 27 59	112 31 43	10.0	.70	1.50	>2.000	3,000	N	N	100
2379CN42	38 28 41	112 30 9	10.0	.30	.70	>2.000	10,000	N	N	50

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2305CN41	500	10	N	15	300	30	300	7	100	20
2306CN41	500	10	N	10	300	30	300	7	100	30
2307CN41	500	7	N	20	700	50	300	N	50	70
2309CN41	>10,000	15	N	<10	70	30	700	15	100	N
2311CN41	5,000	2	N	20	150	30	500	150	70	20
2313CN41	2,000	3	N	10	100	20	300	10	70	N
2314CN41	5,000	2	N	150	70	200	150	20	<50	100
2315CN41	5,000	3	N	N	20	N	1,500	7	150	N
2316CN41	5,000	3	N	15	1,500	10	700	N	500	100
2317CN41	10,000	2	N	10	200	20	500	15	100	20
2319CN41	700	7	N	10	100	30	500	10	70	N
2320CN41	>10,000	2	N	<10	300	100	1,500	N	70	20
2321CN41	>10,000	3	N	15	100	50	300	N	N	N
2322CN41	>10,000	7	N	10	150	30	500	10	50	N
2323CN41	10,000	<2	N	10	1,000	20	1,000	N	<50	50
2324CN41	300	<2	N	20	1,500	10	300	N	150	150
2325CN41	500	<2	N	30	3,000	10	300	N	100	200
2326CN41	150	<2	N	20	2,000	15	500	N	50	150
2327CN41	1,500	2	N	50	150	50	500	N	70	N
2329CN41	>10,000	2	N	50	100	1,000	200	15	50	100
2330CN41	>10,000	5	30	15	150	50	150	300	50	30
2332CN41	1,500	3	N	20	150	50	300	N	50	20
2333CN41	1,500	2	N	N	200	30	700	N	100	N
2334CN41	>10,000	2	N	10	500	1,000	100	10	100	30
2336CN41	300	10	N	10	300	30	1,000	N	70	N
2337CN41	1,500	N	N	10	700	10	300	N	50	150
2339CN41	500	<2	N	30	1,500	15	300	N	<50	700
2340CN41	500	<2	20	30	1,000	20	1,000	N	N	700
2345CN42	300	2	>2,000	N	150	<10	1,000	15	300	N
2346CN42	500	2	N	N	500	15	700	20	300	50
2347CN42	>10,000	3	N	15	700	15	500	10	150	30
2348CN41	1,000	7	N	10	150	70	500	20	100	N
2349CN41	>10,000	5	30	15	150	50	200	50	200	N
2350CN41	7,000	5	N	20	150	30	300	50	150	N
2351CN41	2,000	10	N	20	500	100	500	15	70	70
2352CN41	7,000	7	N	30	1,000	50	500	10	70	150
2353CN41	10,000	10	N	10	30	20	200	10	150	N
2354CN41	5,000	7	N	15	100	30	300	15	150	N
2355CN41	2,000	5	N	15	150	30	700	N	50	N
2356CN41	10,000	5	N	10	200	30	700	N	50	N
2375CN42	300	<2	N	<10	50	<10	500	N	150	N
2376CN42	700	2	N	15	300	20	700	20	300	20
2377CN42	5,000	2	N	20	70	20	500	N	200	N
2378CN42	7,000	5	N	50	100	50	300	N	200	N
2379CN42	70	15	N	N	100	<10	500	20	1,500	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
2305CN41	300	300	700	200	N	200	N	>2,000	N
2306CN41	700	N	1,000	300	N	150	N	>2,000	N
2307CN41	150	N	700	500	N	100	N	1,500	N
2309CN41	200	100	1,000	70	N	500	N	>2,000	500
2311CN41	500	N	700	300	N	200	N	>2,000	N
2313CN41	200	N	1,000	300	N	200	N	>2,000	N
2314CN41	3,000	N	300	100	N	70	1,000	1,500	N
2315CN41	150	70	<200	70	N	2,000	N	>2,000	700
2316CN41	200	300	700	150	N	300	N	>2,000	700
2317CN41	300	N	1,500	200	N	300	300	>2,000	150
2319CN41	100	300	700	200	N	150	N	2,000	N
2320CN41	20	N	2,000	150	N	500	N	>2,000	200
2321CN41	50	N	2,000	150	N	150	N	1,500	N
2322CN41	100	N	2,000	200	N	200	N	2,000	N
2323CN41	20	300	1,000	100	N	300	N	>2,000	N
2324CN41	N	N	300	200	N	300	N	>2,000	N
2325CN41	N	50	500	300	N	300	N	>2,000	N
2326CN41	100	N	700	150	N	200	N	>2,000	N
2327CN41	200	N	500	300	N	200	N	>2,000	N
2329CN41	700	N	5,000	70	N	200	N	>2,000	N
2330CN41	50,000	N	700	150	N	150	N	>2,000	N
2332CN41	200	N	2,000	300	N	200	N	>2,000	N
2333CN41	100	100	700	200	N	300	N	>2,000	N
2334CN41	100	N	7,000	200	N	200	N	>2,000	N
2336CN41	200	50	1,000	200	N	300	N	>2,000	N
2337CN41	1,000	N	1,000	70	N	200	N	>2,000	N
2339CN41	N	N	1,000	150	N	150	N	>2,000	N
2340CN41	30	N	700	100	N	200	N	>2,000	700
2345CN42	50	150	300	200	N	1,000	N	>2,000	700
2346CN42	50	150	200	300	N	1,000	N	>2,000	300
2347CN42	100	100	1,500	200	N	500	N	>2,000	N
2348CN41	150	500	700	300	N	300	N	>2,000	700
2349CN41	200	300	1,000	300	N	200	N	>2,000	150
2350CN41	150	300	700	300	70	200	N	>2,000	N
2351CN41	100	N	700	300	70	150	N	2,000	N
2352CN41	70	20	1,000	500	N	200	N	2,000	N
2353CN41	200	500	500	200	70	200	N	>2,000	150
2354CN41	150	300	300	200	N	150	N	>2,000	200
2355CN41	30	30	1,000	150	N	300	N	>2,000	N
2356CN41	50	30	1,500	150	N	300	N	>2,000	200
2375CN42	N	100	1,000	100	N	500	N	>2,000	200
2376CN42	30	100	200	300	N	500	N	N	1,000
2377CN42	50	15	1,000	300	N	300	N	N	300
2378CN42	150	N	300	500	N	200	N	>2,000	N
2379CN42	150	200	N	70	N	700	700	>2,000	3,000

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2380CN42	38 28 37	112 30 8	5.0	.20	1.00	2.000	7,000	N	N	100
2381CN41	38 28 51	112 28 1	7.0	1.50	2.00	>2.000	10,000	N	N	150
2383CN41	38 28 45	112 28 15	10.0	1.50	1.00	>2.000	>10,000	N	N	20
2384CN41	38 28 40	112 28 21	3.0	.30	1.00	>2.000	5,000	N	N	70
2385CN41	38 28 1	112 28 11	10.0	1.00	.70	>2.000	10,000	N	N	20
2386CN41	38 27 58	112 28 11	15.0	2.00	2.00	>2.000	>10,000	N	N	20
2387CN41	38 28 2	112 25 18	2.0	.70	7.00	2.000	1,500	N	N	300
2388CN41	38 21 56	112 28 59	15.0	.50	.50	>2.000	700	N	N	70
2389CN41	38 23 27	112 25 29	20.0	.70	2.00	1.500	3,000	N	N	20
2390CN41	38 22 54	112 26 39	7.0	.30	1.50	2.000	1,500	N	N	150
2391CN41	38 24 28	112 24 51	5.0	.20	.70	>2.000	10,000	N	N	20
2392CN41	38 26 29	112 26 36	3.0	1.50	15.00	>2.000	10,000	N	N	<20
2393CN41	38 27 5	112 22 40	10.0	1.50	2.00	2.000	3,000	N	N	20
2394CN41	38 27 29	112 19 2	15.0	5.00	5.00	2.000	5,000	N	N	20
2395CN41	38 28 31	112 17 45	5.0	.30	2.00	>2.000	7,000	N	N	100
2396CN42	38 29 29	112 35 55	2.0	3.00	7.00	>2.000	2,000	N	N	20
2397CN42	38 29 32	112 35 52	2.0	1.50	3.00	>2.000	1,500	N	N	50
2398CN42	38 29 36	112 35 56	7.0	10.00	10.00	>2.000	3,000	N	N	N
2399CN41	38 18 18	112 6 44	5.0	2.00	5.00	1.000	3,000	N	700	30
2400CN41	38 17 12	112 6 11	3.0	5.00	10.00	1.500	1,500	N	N	50
2401CN41	38 16 15	112 6 40	5.0	15.00	10.00	1.500	3,000	N	N	30
2404CN41	38 15 51	112 4 7	5.0	10.00	10.00	1.000	2,000	N	N	<20
2405CN41	38 16 14	112 3 57	7.0	10.00	15.00	1.500	2,000	N	N	N
2422CN13	38 39 25	112 31 11	3.0	.70	7.00	1.000	1,500	N	N	300
2423CN13	38 36 54	112 30 54	5.0	10.00	10.00	.700	5,000	N	N	N
2424CN14	38 32 22	112 20 22	3.0	7.00	10.00	2.000	2,000	N	N	20
2425CN14	38 39 32	112 2 16	1.5	1.50	15.00	1.000	1,000	N	N	100
2426CN14	38 38 14	112 5 1	2.0	3.00	10.00	.700	5,000	N	N	50
2427CN14	38 35 33	112 3 21	7.0	1.00	5.00	1.500	2,000	N	N	5,000
2428CN14	38 34 41	112 3 22	3.0	2.00	7.00	2.000	2,000	N	N	70
2429CN14	38 34 48	112 3 3	5.0	.50	3.00	2.000	1,500	N	N	300
2430CN14	38 32 43	112 2 0	2.0	7.00	7.00	1.000	1,500	N	N	70
2431CN14	38 30 52	112 6 20	2.0	3.00	7.00	1.500	1,500	N	N	50
2432CN14	38 30 28	112 4 37	3.0	7.00	10.00	1.000	2,000	N	N	<20
2433CN14	38 32 58	112 6 44	5.0	1.00	3.00	1.500	1,500	N	N	30
2434CN41	38 27 11	112 27 21	2.0	.20	1.00	1.500	1,500	N	N	100
2435CN41	38 27 1	112 27 20	5.0	.15	.70	.300	10,000	N	N	30
2436CN41	38 24 27	112 21 6	20.0	1.50	1.50	>2.000	1,500	N	N	<20
2437CN41	38 23 41	112 22 1	1.0	1.00	5.00	1.500	500	N	N	200
2438CN41	38 21 41	112 21 6	10.0	2.00	7.00	>2.000	2,000	N	1,000	N
2439CN41	38 19 28	112 19 32	7.0	5.00	7.00	1.000	2,000	N	N	<20
2440CN41	38 19 57	112 17 40	10.0	3.00	5.00	2.000	2,000	N	N	<20
2441CN41	38 19 57	112 15 2	5.0	.70	3.00	1.500	1,000	N	N	100
2442CN41	38 18 53	112 16 6	5.0	1.00	5.00	2.000	1,500	N	N	20
2443CN41	38 16 51	112 19 12	3.0	5.00	10.00	.300	1,500	N	N	<20

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2380CN42	500	7	150	N	30	<10	300	20	1,000	N
2381CN41	700	15	N	N	100	15	1,500	10	700	N
2383CN41	1,500	10	N	N	100	20	500	15	700	20
2384CN41	300	15	N	N	30	<10	300	10	1,000	N
2385CN41	300	15	N	N	100	10	700	N	300	N
2386CN41	300	20	N	30	300	10	700	15	300	30
2387CN41	7,000	2	N	N	150	10	700	10	70	N
2388CN41	700	10	N	10	100	150	200	70	200	N
2389CN41	1,000	15	N	50	100	70	500	7	70	30
2390CN41	1,500	20	50	10	70	100	500	20	100	N
2391CN41	200	10	N	N	50	<10	1,500	30	1,000	N
2392CN41	>10,000	15	N	N	700	<10	500	70	>5,000	50
2393CN41	700	10	N	20	200	20	300	7	70	30
2394CN41	2,000	3	N	30	700	50	300	N	50	70
2395CN41	500	15	70	N	100	N	700	15	500	N
2396CN42	200	3	N	10	1,500	<10	500	N	300	100
2397CN42	300	<2	N	20	700	<10	700	15	150	N
2398CN42	2,000	<2	N	70	2,000	20	500	N	100	150
2399CN41	1,000	<2	N	15	500	20	1,000	N	<50	20
2400CN41	200	N	N	15	1,500	<7	1,000	N	70	100
2401CN41	1,500	N	N	50	2,000	20	300	N	50	150
2404CN41	700	<2	N	50	2,000	15	150	N	<50	200
2405CN41	700	<2	N	30	2,000	10	200	N	<50	150
2422CN13	3,000	3	N	20	150	30	300	N	50	30
2423CN13	700	N	N	50	3,000	15	300	N	<50	200
2424CN14	1,000	2	N	20	1,500	<10	700	N	100	150
2425CN14	500	<2	N	10	500	20	700	N	50	20
2426CN14	3,000	N	N	10	200	30	2,000	N	N	N
2427CN14	7,000	7	N	15	100	100	500	N	<50	N
2428CN14	2,000	3	N	20	200	15	500	15	70	30
2429CN14	>10,000	5	N	10	150	70	500	7	<50	N
2430CN14	1,500	<2	N	20	1,500	20	200	N	<50	100
2431CN14	1,000	2	N	15	700	20	500	10	150	100
2432CN14	500	<2	N	30	2,000	30	300	N	50	200
2433CN14	3,000	3	N	15	150	30	500	7	70	20
2434CN41	200	20	N	N	30	N	200	20	300	N
2435CN41	500	30	N	N	20	N	300	15	150	N
2436CN41	10,000	2	N	100	150	50	300	N	50	100
2437CN41	500	<2	N	<10	150	<10	200	N	50	N
2438CN41	1,500	<2	N	50	500	20	700	N	100	50
2439CN41	5,000	N	N	50	700	70	300	N	<50	70
2440CN41	5,000	3	N	30	500	30	300	N	70	50
2441CN41	>10,000	<2	N	10	100	15	500	N	50	N
2442CN41	700	2	N	20	150	30	700	N	50	20
2443CN41	700	2	N	20	1,000	30	300	N	N	200

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
2380CN42	100	1,000	<200	70	N	700	500	>2,000	2,000
2381CN41	150	300	N	100	N	1,000	1,000	>2,000	1,000
2383CN41	100	1,000	N	70	N	500	1,000	>2,000	700
2384CN41	150	150	<200	70	N	700	300	>2,000	1,000
2385CN41	700	300	N	150	N	700	1,000	>2,000	500
2386CN41	1,000	200	200	200	N	700	1,000	>2,000	500
2387CN41	100	N	1,000	100	N	500	500	>2,000	300
2388CN41	200	300	1,000	500	100	150	N	>2,000	N
2389CN41	700	2,000	700	500	70	200	N	2,000	N
2390CN41	200	300	700	200	N	200	N	>2,000	N
2391CN41	700	100	<200	70	N	700	700	>2,000	1,500
2392CN41	1,000	100	200	100	N	700	N	>2,000	500
2393CN41	300	50	300	300	N	150	N	2,000	N
2394CN41	150	N	500	1,000	N	70	N	1,000	N
2395CN41	300	300	N	150	N	1,500	500	>2,000	1,500
2396CN42	50	100	300	200	N	500	N	>2,000	1,000
2397CN42	<20	30	700	300	N	500	N	>2,000	150
2398CN42	70	N	500	300	N	300	N	>2,000	N
2399CN41	70	N	1,000	500	N	200	N	>2,000	N
2400CN41	30	30	700	150	N	300	N	>2,000	300
2401CN41	30	N	200	200	N	200	N	>2,000	N
2404CN41	20	N	700	300	N	100	N	>2,000	N
2405CN41	N	N	500	300	N	200	N	2,000	N
2422CN13	300	30	700	150	N	300	N	>2,000	N
2423CN13	20	N	300	300	N	150	N	>2,000	N
2424CN14	150	20	700	200	N	500	N	>2,000	150
2425CN14	N	20	1,500	70	N	300	N	>2,000	N
2426CN14	70	300	1,500	1,500	N	300	N	>2,000	N
2427CN14	1,500	100	1,000	300	N	200	N	2,000	N
2428CN14	100	N	700	200	N	200	N	>2,000	N
2429CN14	50	N	5,000	300	N	100	N	1,500	N
2430CN14	N	50	500	200	N	150	N	2,000	N
2431CN14	200	150	700	200	N	300	N	N	N
2432CN14	50	N	700	150	N	200	N	>2,000	N
2433CN14	70	500	700	200	N	200	N	>2,000	N
2434CN41	200	500	<200	70	N	1,000	500	>2,000	1,500
2435CN41	150	500	N	50	N	3,000	700	>2,000	2,000
2436CN41	200	N	500	300	N	150	N	>2,000	N
2437CN41	50	N	1,000	100	N	300	N	>2,000	N
2438CN41	100	N	1,000	300	N	200	N	1,500	N
2439CN41	70	N	500	200	N	100	N	>2,000	N
2440CN41	200	N	1,000	300	N	200	N	>2,000	N
2441CN41	300	N	7,000	150	N	150	N	>2,000	N
2442CN41	50	N	700	200	N	200	N	>2,000	N
2443CN41	20	N	1,000	150	N	150	N	1,500	N

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2445CN41	38 16 24	112 23 42	3.0	7.00	10.00	1.000	1,500	N	N	20
2446CN14	38 32 55	112 15 53	3.0	3.00	7.00	.300	>10,000	N	N	<20
2469CN41	38 15 32	112 18 21	2.0	1.50	5.00	1.500	700	N	N	50
2601CN14	38 40 42	112 16 15	5.0	7.00	7.00	2.000	2,000	N	N	50
2631CN14	38 39 21	112 18 21	5.0	5.00	10.00	2.000	2,000	N	N	70
2633CN14	38 40 1	112 19 30	3.0	1.00	7.00	1.500	1,000	N	N	<20
2634CN14	38 40 17	112 22 10	1.0	.70	10.00	2.000	1,000	N	N	20
2636CN14	38 37 38	112 20 15	1.5	1.50	10.00	>2.000	1,000	N	N	20
2637CN14	38 38 52	112 21 32	3.0	3.00	5.00	>2.000	2,000	N	N	100
2638CN14	38 38 57	112 21 38	.7	.30	5.00	2.000	1,000	N	N	30
2831CN41	38 28 56	112 23 27	2.0	.70	20.00	>2.000	1,500	500.0	N	20
2832CN41	38 29 12	112 23 20	2.0	.50	1.00	2.000	1,000	N	N	200
2833CN41	38 28 37	112 24 6	7.0	.70	10.00	>2.000	7,000	N	N	50
2834CN41	38 28 34	112 24 9	2.0	.70	10.00	>2.000	2,000	N	N	70
2837CN41	38 28 57	112 25 43	15.0	.50	1.50	1.500	1,000	N	N	30
2838CN41	38 29 0	112 25 44	3.0	.50	10.00	>2.000	1,000	N	N	70
2839CN41	38 29 5	112 25 54	3.0	.30	7.00	>2.000	1,000	200.0	N	70
2841CN41	38 29 14	112 8 18	5.0	1.00	1.50	>2.000	1,000	N	N	500
2844CN41	38 28 55	112 7 20	10.0	.50	1.00	>2.000	1,000	N	N	2,000
2845CN41	38 26 30	112 8 32	7.0	.50	1.50	>2.000	1,500	N	N	500
2846CN41	38 26 4	112 7 24	7.0	1.00	5.00	2.000	3,000	N	N	30
2847CN41	38 24 58	112 8 20	2.0	1.00	7.00	1.500	1,000	N	N	200
2849CN41	38 23 15	112 10 55	1.5	.30	2.00	1.500	500	N	N	30
2851CN41	38 21 30	112 2 31	2.0	2.00	5.00	.300	1,000	N	N	30
2853CN41	38 20 10	112 0 28	2.0	.70	5.00	.700	1,000	N	N	70
2854CN41	38 19 25	112 0 14	1.5	1.00	5.00	1.000	700	1.0	N	100
2855CN41	38 18 34	112 0 40	3.0	5.00	7.00	.500	1,500	N	N	50

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2445CN41	300	N	N	20	1,000	<10	100	N	<50	100
2446CN14	>10,000	<2	N	50	100	50	300	N	N	N
2469CN41	500	<2	N	10	700	<10	300	N	50	20
2601CN14	3,000	<2	N	15	1,000	20	500	N	70	200
2631CN14	300	<2	N	20	200	<10	500	N	70	30
2633CN14	2,000	N	N	10	300	<10	700	N	50	N
2634CN14	1,000	<2	N	N	200	<10	1,000	N	100	N
2636CN14	300	<2	N	10	300	N	1,000	7	100	N
2637CN14	300	N	N	N	500	<10	1,000	10	150	30
2638CN14	2,000	2	N	N	70	N	500	N	100	N
2831CN41	500	5	N	<10	150	20	1,500	200	150	N
2832CN41	2,000	7	100	N	70	10	300	20	300	N
2833CN41	300	15	N	15	50	30	1,000	10	100	N
2834CN41	200	7	N	N	50	10	2,000	10	100	N
2837CN41	1,000	10	N	15	100	50	300	20	<50	30
2838CN41	1,500	10	N	<10	150	50	500	200	100	N
2839CN41	700	7	N	<10	100	30	700	30	100	N
2841CN41	1,000	5	N	10	150	50	200	15	100	N
2844CN41	>10,000	5	N	10	100	50	200	15	70	N
2845CN41	700	7	N	10	200	70	500	30	150	N
2846CN41	>10,000	10	N	20	100	50	500	10	<50	N
2847CN41	700	2	N	10	300	20	300	N	70	N
2849CN41	7,000	2	N	N	70	<10	300	N	50	N
2851CN41	700	2	N	10	300	15	500	N	N	30
2853CN41	2,000	<2	N	10	100	15	1,000	N	<50	N
2854CN41	500	<2	30	<10	150	20	200	N	70	N
2855CN41	2,000	<2	N	20	1,000	30	150	N	N	100

Table 1.--Six-step semiquantitative spectrographic analyses of the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	ZN	ZR	TH
2445CN41	N	N	500	200	N	150	N	>2,000	N
2446CN14	100	N	7,000	500	N	150	N	1,000	N
2469CN41	N	N	2,000	70	N	200	N	>2,000	150
2601CN14	150	N	1,500	200	N	300	N	>2,000	N
2631CN14	N	100	700	150	N	300	N	>2,000	N
2633CN14	20	N	1,000	100	N	300	300	>2,000	1,500
2634CN14	N	N	1,500	100	N	300	N	>2,000	N
2636CN14	N	50	1,000	150	N	500	N	>2,000	N
2637CN14	N	50	200	200	N	700	N	N	150
2638CN14	150	500	1,500	100	N	300	N	>2,000	300
2831CN41	3,000	>2,000	700	200	N	300	N	>2,000	N
2832CN41	150	N	500	100	N	200	N	>2,000	N
2833CN41	700	200	700	150	N	300	N	>2,000	N
2834CN41	300	50	1,000	150	N	500	N	>2,000	150
2837CN41	200	N	500	300	N	100	N	700	N
2838CN41	1,000	150	1,500	200	70	200	N	>2,000	N
2839CN41	150	1,000	1,000	200	70	300	N	>2,000	N
2841CN41	70	N	1,000	200	N	100	N	>2,000	N
2844CN41	100	1,000	1,000	300	N	70	N	1,500	N
2845CN41	150	15	1,000	500	70	200	N	>2,000	N
2846CN41	100	N	1,000	300	N	200	N	1,500	N
2847CN41	30	50	1,500	150	N	300	N	>2,000	N
2849CN41	N	N	1,000	150	N	200	N	>2,000	N
2851CN41	20	N	200	70	N	70	N	>2,000	N
2853CN41	50	N	2,000	100	N	150	N	>2,000	300
2854CN41	>50,000	N	1,000	70	N	200	N	>2,000	N
2855CN41	50	N	1,000	200	N	100	N	>2,000	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1053CM14	38 40 53	112 2 20	15	7.00	3.0	2.0	5,000	N	N	30
1055CM14	38 36 55	112 6 12	30	1.00	2.0	>2.0	7,000	N	N	20
1056CM14	38 36 46	112 3 36	30	1.50	2.0	>2.0	7,000	N	N	70
1057CM14	38 34 13	112 5 10	20	5.00	5.0	>2.0	2,000	N	N	<20
1058CM14	38 34 39	112 4 59	30	1.00	1.5	>2.0	2,000	N	N	70
1059CM14	38 36 13	112 5 42	30	1.00	2.0	>2.0	3,000	N	N	20
1061CM14	38 38 21	112 3 5	10	7.00	5.0	2.0	3,000	N	N	<20
1062CM14	38 39 30	112 5 57	15	7.00	5.0	2.0	10,000	N	N	N
1066CM14	38 30 36	112 1 58	15	5.00	5.0	2.0	5,000	N	N	150
1068CM14	38 30 21	112 0 15	20	7.00	7.0	>2.0	5,000	N	N	70
1069CM14	38 33 11	112 0 22	7	10.00	7.0	1.0	5,000	N	N	<20
1405CM13	38 40 39	112 34 37	20	3.00	3.0	>2.0	5,000	N	N	70
1406CM13	38 40 24	112 31 17	50	1.50	1.5	>2.0	7,000	N	N	200
1407CM13	38 40 37	112 33 2	20	3.00	2.0	2.0	2,000	N	700	150
1408CM42	38 16 12	112 32 55	10	10.00	5.0	1.0	3,000	N	N	<20
1409CM42	38 17 51	112 32 40	10	7.00	3.0	1.5	3,000	N	N	20
1410CM42	38 21 51	112 33 55	30	1.00	1.5	>2.0	5,000	N	N	30
1411CM42	38 21 41	112 33 56	10	1.00	3.0	1.0	3,000	N	N	50
1412CM42	38 19 31	112 32 32	15	3.00	5.0	2.0	5,000	N	N	<20
1414CM42	38 21 45	112 31 19	50	.50	.5	>2.0	2,000	N	N	30
1415CM42	38 21 12	112 32 26	50	1.00	1.0	>2.0	10,000	N	N	50
1416CM42	38 22 51	112 31 43	30	.70	1.0	>2.0	5,000	N	N	30
1418CM42	38 22 49	112 31 49	30	1.50	1.5	>2.0	3,000	N	N	30
1419CM42	38 23 34	112 30 40	30	.50	.1	>2.0	>10,000	N	N	20
1420CM42	38 22 34	112 33 48	50	1.00	1.5	>2.0	1,500	N	N	20
1422CM42	38 24 15	112 33 29	50	1.00	1.0	>2.0	2,000	N	N	50
1424CM42	38 25 46	112 32 31	30	2.00	2.0	>2.0	2,000	N	N	50
1425CM42	38 25 26	112 31 24	50	.50	.5	>2.0	>10,000	N	N	20
1426CM42	38 25 56	112 30 57	30	.70	.5	>2.0	>10,000	N	N	30
1427CM42	38 27 9	112 30 43	50	.50	.5	>2.0	>10,000	N	N	70
1428CM42	38 25 55	112 33 40	30	.50	1.5	>2.0	3,000	1.0	N	100
1429CM42	38 26 5	112 34 5	20	1.00	2.0	>2.0	2,000	N	500	150
1430CM42	38 25 32	112 35 5	30	.50	1.0	>2.0	7,000	2.0	1,000	20
1431CM42	38 27 5	112 34 16	50	1.50	1.0	>2.0	3,000	N	N	<20
1433CM42	38 28 16	112 34 26	30	5.00	5.0	>2.0	10,000	N	N	<20
1435CM13	38 30 25	112 35 43	10	10.00	3.0	>2.0	3,000	N	N	<20
1436CM13	38 30 14	112 34 47	50	2.00	1.5	>2.0	3,000	N	N	<20
1437CM13	38 30 2	112 33 1	30	2.00	1.5	>2.0	3,000	N	N	20
1439CM13	38 33 0	112 33 54	20	3.00	3.0	>2.0	3,000	N	N	30
1441CM13	38 31 7	112 34 41	>50	.70	1.0	>2.0	2,000	N	N	20
1444CM13	38 34 29	112 34 8	50	1.00	1.0	>2.0	2,000	N	N	50
1445CM13	38 34 43	112 34 3	50	2.00	3.0	>2.0	5,000	N	N	30
1447CM13	38 34 23	112 32 47	15	5.00	5.0	>2.0	3,000	N	N	30
1448CM13	38 35 43	112 31 32	30	2.00	3.0	>2.0	5,000	N	N	1,000
1449CM41	38 18 48	112 24 44	30	1.50	1.5	>2.0	7,000	N	N	20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1053CM14	300	<2	N	70	300	70	300	N	<50	100
1055CM14	700	<2	N	100	300	150	150	N	<50	70
1056CM14	500	5	N	70	150	150	150	N	N	N
1057CM14	200	2	N	70	500	100	300	10	70	150
1058CM14	5,000	2	N	100	300	150	300	20	70	30
1059CM14	500	2	N	70	150	100	200	N	<50	N
1061CM14	100	N	N	70	150	70	N	N	N	70
1062CM14	1,000	N	N	100	150	100	50	N	N	50
1066CM14	500	3	N	70	300	70	150	10	<50	100
1068CM14	100	<2	N	100	700	100	200	15	<50	100
1069CM14	50	<2	N	50	1,000	20	N	N	N	150
1405CM13	500	2	N	100	500	50	500	50	70	300
1406CM13	1,000	5	N	50	300	150	500	10	70	100
1407CM13	300	3	N	70	300	100	200	70	50	300
1408CM42	200	<2	N	100	500	70	N	N	N	70
1409CM42	300	N	N	70	700	50	700	N	50	200
1410CM42	500	7	N	100	700	150	200	N	<50	70
1411CM42	700	10	N	20	200	50	500	10	70	50
1412CM42	200	<2	N	70	700	50	500	N	<50	100
1414CM42	300	5	N	70	200	100	150	50	70	N
1415CM42	1,500	10	N	50	150	50	300	30	100	20
1416CM42	500	7	N	70	700	150	200	10	150	150
1418CM42	500	10	N	100	300	150	200	10	<50	100
1419CM42	150	7	N	N	30	20	200	10	700	N
1420CM42	300	3	N	150	500	150	100	N	<50	150
1422CM42	500	5	N	70	500	100	200	10	50	30
1424CM42	500	7	N	70	700	150	200	10	50	150
1425CM42	500	10	N	30	200	20	500	10	500	20
1426CM42	300	10	N	15	70	20	300	15	500	N
1427CM42	700	10	N	N	150	20	1,000	50	1,000	N
1428CM42	1,500	10	N	70	300	150	300	10	<50	100
1429CM42	300	15	N	100	150	200	200	30	100	100
1430CM42	2,000	7	100	200	70	300	700	20	<50	150
1431CM42	700	<2	N	100	700	150	150	N	<50	150
1433CM42	700	2	N	70	700	150	100	7	50	100
1435CM13	200	<2	N	100	150	70	300	N	50	100
1436CM13	500	<2	N	100	500	50	70	N	<50	100
1437CM13	500	2	N	100	500	100	200	N	50	100
1439CM13	300	2	N	70	500	70	700	N	70	70
1441CM13	200	<2	N	150	700	70	300	N	<50	150
1444CM13	300	<2	N	100	500	150	1,000	N	50	70
1445CM13	300	<2	N	100	700	150	500	7	50	70
1447CM13	300	<2	N	50	150	30	150	7	50	50
1448CM13	200	2	N	100	500	50	500	10	70	150
1449CM41	200	2	N	70	500	70	1,000	7	150	50

Table 7.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1053CM14	70	N	300	700	N	200.0	N	300	N
1055CM14	100	N	500	700	N	70.0	500	500	N
1056CM14	70	N	200	1,000	N	100.0	N	200	N
1057CM14	50	20	200	500	N	100.0	N	700	N
1058CM14	70	N	200	1,000	N	70.0	500	500	N
1059CM14	200	N	200	1,000	N	70.0	N	100	N
1061CM14	<20	N	N	300	N	70.0	N	100	N
1062CM14	30	N	300	700	N	100.0	N	100	N
1066CM14	50	N	<200	500	N	100.0	N	300	N
1068CM14	30	70	N	700	N	100.0	300	700	N
1069CM14	<20	N	<200	500	N	70.0	N	150	N
1405CM13	100	N	N	500	100	150.0	700	1,000	N
1406CM13	200	N	200	700	N	200.0	N	300	N
1407CM13	150	N	<200	500	N	100.0	1,500	500	N
1408CM42	20	N	500	500	N	70.0	N	200	N
1409CM42	20	N	<200	300	N	100.0	N	700	N
1410CM42	300	N	200	1,000	N	70.0	N	300	N
1411CM42	200	N	700	300	N	200.0	N	>2,000	N
1412CM42	150	N	<200	500	N	300.0	N	500	N
1414CM42	100	N	N	1,000	N	150.0	700	1,000	N
1415CM42	1,000	N	200	700	N	200.0	500	1,500	N
1416CM42	150	N	300	1,000	N	70.0	700	300	N
1418CM42	200	N	1,000	500	N	70.0	N	200	N
1419CM42	200	300	N	100	N	200.0	2,000	1,000	N
1420CM42	150	N	<200	700	N	70.0	N	500	N
1422CM42	200	N	200	1,000	N	70.0	N	200	N
1424CM42	150	N	200	700	N	70.0	N	1,000	N
1425CM42	700	300	N	300	N	300.0	2,000	2,000	N
1426CM42	300	200	N	150	N	200.0	3,000	1,500	N
1427CM42	700	200	N	200	N	1,000.0	2,000	2,000	N
1428CM42	200	N	500	700	N	100.0	300	500	N
1429CM42	300	N	300	300	N	150.0	N	1,500	N
1430CM42	300	N	<200	300	N	150.0	N	500	N
1431CM42	100	N	<200	1,000	N	70.0	700	500	N
1433CM42	70	N	200	700	N	70.0	500	200	N
1435CM13	20	N	N	500	N	100.0	N	150	N
1436CM13	50	N	N	500	N	70.0	700	500	N
1437CM13	50	N	<150	200	N	70.0	500	500	N
1439CM13	50	N	N	700	N	150.0	N	500	N
1441CM13	50	N	N	500	N	70.0	500	500	N
1444CM13	150	N	<200	1,000	N	70.0	300	1,500	N
1445CM13	100	N	<200	700	N	1.5	300	1,000	150
1447CM13	20	N	N	500	N	100.0	N	300	N
1448CM13	50	N	N	500	N	150.0	300	700	N
1449CM41	100	N	N	500	N	200.0	700	1,000	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1450CM41	38 19 18	112 21 41	50	1.50	1.5	>2.0	2,000	.7	N	<20
1452CM41	38 19 20	112 21 6	50	1.50	2.0	>2.0	5,000	N	N	<20
1453CM41	38 16 2	112 29 17	30	3.00	2.0	>2.0	7,000	N	N	<20
1460CM13	38 39 38	112 33 17	30	2.00	2.0	1.5	3,000	N	2,000	100
1461CM13	38 38 26	112 33 37	30	2.00	2.0	>2.0	7,000	N	N	50
1462CM13	38 38 40	112 36 0	7	3.00	3.0	1.0	2,000	N	N	<20
1464CM13	38 37 58	112 35 23	20	7.00	5.0	>2.0	3,000	N	N	<20
1465CM13	38 36 20	112 33 53	20	1.00	3.0	1.0	3,000	N	N	100
1466CM13	38 35 49	112 33 16	30	1.00	2.0	>2.0	5,000	N	N	70
1467CM13	38 37 21	112 32 13	20	3.00	3.0	2.0	5,000	N	N	30
1468CM41	38 15 52	112 27 38	20	5.00	3.0	>2.0	5,000	N	N	<20
1469CM41	38 17 32	112 26 55	30	7.00	3.0	>2.0	7,000	N	N	20
1470CM41	38 18 1	112 26 57	30	1.00	1.0	>2.0	7,000	N	N	<20
1471CM41	38 18 7	112 28 5	20	10.00	3.0	>2.0	5,000	N	N	100
1473CM41	38 17 4	112 29 8	30	3.00	2.0	>2.0	5,000	N	N	30
1474CM41	38 17 16	112 25 15	15	5.00	3.0	2.0	3,000	N	N	<20
1476CM41	38 16 22	112 25 43	10	10.00	7.0	1.0	3,000	N	N	<20
1477CM41	38 18 9	112 23 8	50	3.00	2.0	>2.0	10,000	N	N	30
1479CM41	38 17 26	112 23 52	15	7.00	5.0	1.5	3,000	N	N	30
1480CM41	38 17 33	112 24 0	10	7.00	5.0	1.0	5,000	N	N	<20
1482CM41	38 19 42	112 26 1	30	1.00	1.5	>2.0	10,000	N	N	<20
1505CM42	38 18 59	112 32 58	30	2.00	2.0	>2.0	10,000	N	N	30
1506CM42	38 19 25	112 32 35	20	5.00	5.0	>2.0	7,000	.7	N	<20
1508CM42	38 20 14	112 32 42	20	5.00	5.0	2.0	7,000	N	N	<20
1509CM42	38 21 3	112 33 48	30	.70	1.5	>2.0	>10,000	N	N	50
1510CM42	38 21 18	112 34 1	30	3.00	3.0	>2.0	7,000	N	N	30
1511CM42	38 22 19	112 34 6	50	2.00	1.5	>2.0	2,000	N	N	50
1512CM42	38 23 9	112 34 0	3	.50	1.0	>2.0	1,500	N	N	20
1513CM42	38 23 46	112 34 7	50	.30	.7	>2.0	2,000	N	N	30
1514CM42	38 24 11	112 33 26	30	.50	1.0	>2.0	7,000	N	N	50
1515CM42	38 24 18	112 34 10	50	1.00	1.5	>2.0	1,500	1.0	N	20
1516CM42	38 20 51	112 32 45	15	1.00	1.0	2.0	5,000	N	N	<20
1517CM42	38 21 2	112 32 35	30	.50	1.0	>2.0	10,000	N	N	30
1518CM42	38 21 42	112 32 3	30	1.50	3.0	>2.0	7,000	N	N	70
1519CM42	38 22 30	112 31 20	30	1.00	1.5	>2.0	10,000	N	N	20
1520CM42	38 21 36	112 31 43	30	.50	.7	>2.0	2,000	N	N	30
1521CM42	38 22 13	112 30 55	50	.50	.5	>2.0	2,000	N	N	30
1522CM42	38 22 28	112 30 36	20	.30	.7	1.5	1,500	N	N	30
1523CM41	38 22 54	112 29 37	50	1.00	1.0	>2.0	2,000	N	N	20
1524CM41	38 22 52	112 29 38	30	.30	.7	1.5	1,000	N	N	20
1525CM42	38 22 45	112 30 19	30	1.00	1.0	>2.0	3,000	N	N	30
1526CM42	38 23 0	112 30 58	30	1.00	1.0	>2.0	>10,000	N	N	<20
1527CM42	38 23 7	112 31 6	30	.50	1.0	>2.0	>10,000	N	N	30
1528CM42	38 23 44	112 30 15	30	.70	.5	>2.0	>10,000	1.0	N	20
1529CM41	38 23 43	112 29 39	15	1.00	1.5	.5	>10,000	2.0	N	<20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1450CM41	300	<2	N	150	700	70	100	N	50	150
1452CM41	700	<2	N	150	1,000	50	200	N	50	100
1453CM41	3,000	<2	N	100	300	150	700	N	100	100
1460CM13	500	7	N	100	300	150	700	100	70	500
1461CM13	1,500	2	N	100	500	100	200	30	<50	200
1462CM13	200	<2	N	70	200	15	70	N	<50	100
1464CM13	500	2	N	100	300	50	200	N	50	100
1465CM13	700	5	N	70	300	70	300	N	<50	100
1466CM13	200	2	N	70	150	100	700	20	100	20
1467CM13	1,500	<2	N	70	700	100	300	N	N	150
1468CM41	300	<2	N	70	500	70	1,000	N	100	100
1469CM41	1,000	<2	N	70	500	50	500	N	200	50
1470CM41	500	2	N	100	200	100	500	10	150	20
1471CM41	700	N	N	100	1,500	100	500	N	100	150
1473CM41	700	<2	N	100	200	150	700	10	100	50
1474CM41	200	<2	N	70	300	70	500	7	70	150
1476CM41	100	N	N	100	500	30	50	N	N	100
1477CM41	100	<2	N	50	200	50	>2,000	10	200	N
1479CM41	150	N	N	100	500	30	300	N	N	100
1480CM41	70	N	N	70	300	10	100	N	N	100
1482CM41	150	3	N	150	500	30	1,500	10	100	100
1505CM42	500	2	N	100	500	50	1,000	10	70	100
1506CM42	100	<2	N	100	200	100	N	N	70	70
1508CM42	500	3	N	50	500	70	150	N	<50	100
1509CM42	1,500	20	N	50	200	50	300	100	300	50
1510CM42	500	7	N	70	700	100	150	N	70	100
1511CM42	300	5	N	50	700	100	150	N	<50	100
1512CM42	500	10	N	70	200	150	150	10	<50	50
1513CM42	500	15	N	70	300	100	300	30	70	20
1514CM42	1,000	20	N	30	300	150	500	30	100	50
1515CM42	500	5	N	70	500	100	150	15	70	50
1516CM42	700	5	N	50	200	100	150	10	<50	20
1517CM42	1,500	15	N	50	200	150	300	50	100	20
1518CM42	700	7	N	70	500	70	150	10	<50	100
1519CM42	500	20	N	70	300	100	300	15	300	30
1520CM42	500	5	N	70	300	70	150	50	70	20
1521CM42	500	5	N	100	1,500	100	150	10	50	70
1522CM42	1,500	10	N	50	150	150	200	70	50	50
1523CM41	500	7	N	100	700	100	200	10	50	100
1524CM41	1,500	5	N	20	200	150	200	30	<50	20
1525CM42	1,500	10	N	70	300	100	200	30	50	30
1526CM42	3,000	150	N	N	70	30	500	50	500	N
1527CM42	1,000	50	N	10	70	30	200	15	500	N
1528CM42	1,500	50	N	10	70	20	300	200	700	N
1529CM41	1,500	50	N	N	30	20	300	300	200	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1450CM41	50	N	N	700	N	50.0	700	700	N
1452CM41	100	N	<200	1,000	N	100.0	500	500	N
1453CM41	150	N	200	700	N	150.0	500	500	N
1460CM13	200	N	N	500	N	100.0	2,000	200	N
1461CM13	150	N	N	700	N	100.0	1,000	300	N
1462CM13	20	N	200	300	N	100.0	N	300	N
1464CM13	50	N	<200	700	N	150.0	500	500	N
1465CM13	100	N	1,000	500	N	100.0	N	300	N
1466CM13	70	N	N	500	N	100.0	700	1,000	N
1467CM13	100	N	<200	500	N	70.0	300	500	N
1468CM41	50	N	200	500	N	150.0	300	1,500	150
1469CM41	30	N	N	500	N	300.0	500	>2,000	N
1470CM41	70	N	N	500	N	200.0	700	2,000	N
1471CM41	20	N	<200	500	N	150.0	500	>2,000	150
1473CM41	30	N	<200	500	N	200.0	700	1,500	N
1474CM41	20	N	N	500	N	150.0	300	1,500	N
1476CM41	N	N	200	500	N	70.0	N	150	N
1477CM41	70	N	<200	300	N	300.0	1,000	>2,000	150
1479CM41	20	N	200	500	N	70.0	N	200	N
1480CM41	20	N	N	500	N	70.0	N	100	N
1482CM41	100	N	N	500	N	300.0	1,000	1,500	N
1505CM42	700	N	N	300	N	150.0	700	1,500	N
1506CM42	30	N	N	700	N	70.0	N	200	N
1508CM42	30	N	<200	500	N	70.0	N	200	N
1509CM42	1,000	150	200	700	N	300.0	700	1,000	N
1510CM42	150	N	<200	1,000	N	70.0	N	300	N
1511CM42	200	N	<200	1,000	N	50.0	N	500	N
1512CM42	300	N	N	500	N	70.0	N	300	N
1513CM42	500	N	<200	700	N	100.0	N	700	N
1514CM42	500	N	200	500	N	100.0	300	1,500	N
1515CM42	150	N	200	1,000	N	70.0	N	200	N
1516CM42	150	N	<200	700	N	70.0	N	500	N
1517CM42	500	N	300	700	N	150.0	500	1,500	N
1518CM42	1,000	N	300	700	N	70.0	N	500	N
1519CM42	1,000	N	200	1,000	N	200.0	500	500	N
1520CM42	150	N	<200	700	70	100.0	300	1,000	N
1521CM42	200	N	N	1,500	N	50.0	N	300	N
1522CM42	200	N	700	500	N	50.0	300	200	150
1523CM41	200	N	<200	1,000	N	70.0	300	300	N
1524CM41	500	N	300	500	N	70.0	N	500	150
1525CM42	700	N	300	500	N	70.0	N	300	N
1526CM42	2,000	200	1,000	200	N	300.0	1,500	1,500	N
1527CM42	1,500	300	300	200	N	100.0	2,000	700	N
1528CM42	1,000	100	500	150	N	300.0	1,500	2,000	N
1529CM41	1,000	N	1,000	150	N	300.0	700	1,500	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1531CM42	38 23 27	112 30 33	20	1.00	1.5	2.0	10,000	N	N	30
1532CM41	38 24 1	112 29 14	30	2.00	1.5	2.0	>10,000	2.0	N	30
1533CM41	38 23 56	112 29 13	20	.50	1.5	1.0	>10,000	5.0	N	<20
1534CM41	38 23 59	112 29 3	30	.20	.5	.5	>10,000	N	N	20
1535CM41	38 24 56	112 29 41	30	.70	1.0	2.0	>2	N	N	30
1536CM41	38 25 1	112 29 28	30	2.00	3.0	1.5	>10,000	N	N	20
1537CM41	38 25 13	112 29 10	15	.50	1.0	1.0	>10,000	1.0	N	<20
1539CM41	38 25 20	112 28 50	20	2.00	1.5	>2.0	>10,000	1.5	N	20
1540CM41	38 25 40	112 29 3	30	.50	.7	>2.0	>10,000	N	N	30
1541CM41	38 25 34	112 29 4	30	.30	.1	>2.0	>10,000	N	N	20
1543CM41	38 25 9	112 29 57	20	2.00	2.0	>2.0	>10,000	N	N	20
1544CM41	38 25 17	112 28 12	20	2.00	1.5	>2.0	>10,000	N	N	20
1545CM41	38 25 21	112 28 12	20	1.00	1.5	1.0	>10,000	2.0	N	20
1547CM41	38 25 49	112 28 37	30	.70	1.5	>2.0	>10,000	N	N	20
1548CM41	38 25 52	112 28 21	20	1.00	1.0	>2.0	>10,000	1.5	N	<20
1550CM41	38 25 48	112 28 17	20	.30	.5	>2.0	>10,000	1.5	N	<20
1551CM41	38 26 18	112 28 42	20	3.00	3.0	2.0	7,000	N	N	20
1552CM41	38 26 36	112 29 15	7	1.00	1.0	1.5	7,000	N	N	20
1553CM42	38 24 57	112 30 3	30	1.00	1.0	2.0	>10,000	N	N	20
1554CM42	38 25 6	112 30 21	50	.70	.7	>2.0	>10,000	N	N	20
1555CM42	38 25 24	112 30 23	30	1.00	1.5	>2.0	>10,000	N	N	20
1556CM42	38 25 11	112 30 31	50	.50	.5	>2.0	>10,000	N	N	20
1557CM42	38 25 42	112 30 55	50	.50	.5	>2.0	>10,000	N	N	<20
1558CM42	38 27 10	112 30 35	50	1.00	.7	>2.0	>10,000	N	N	10
1559CM42	38 26 55	112 30 42	30	2.00	1.5	>2.0	>10,000	N	N	50
1561CM42	38 26 34	112 31 22	30	1.50	1.0	>2.0	5,000	N	N	20
1562CM42	38 25 38	112 32 34	30	.50	.7	>2.0	2,000	N	N	30
1563CM42	38 26 0	112 33 26	30	1.00	3.0	2.0	3,000	1.5	700	100
1564CM42	38 25 11	112 34 52	30	.70	1.0	1.0	7,000	N	N	70
1565CM42	38 24 42	112 34 51	30	.70	1.0	>2.0	2,000	N	N	30
1566CM42	38 27 4	112 34 42	50	1.50	1.5	>2.0	>10,000	N	N	20
1567CM42	38 27 7	112 34 18	30	2.00	2.0	>2.0	7,000	N	N	<20
1568CM42	38 26 54	112 34 1	30	.50	2.0	1.5	2,000	1.0	1,000	50
1569CM42	38 26 59	112 33 35	30	.50	1.5	1.5	1,500	.7	1,000	50
1570CM42	38 27 7	112 33 9	30	.50	.7	>2.0	1,500	N	N	<20
1571CM42	38 27 27	112 32 22	50	1.00	1.0	>2.0	5,000	N	N	20
1572CM42	38 27 24	112 32 21	30	1.00	1.0	>2.0	2,000	N	N	<20
1573CM42	38 27 23	112 32 36	50	.50	1.0	>2.0	5,000	N	N	<20
1575CM42	38 27 49	112 34 43	30	3.00	2.0	>2.0	>10,000	N	N	50
1580CM41	38 23 26	112 23 2	50	1.00	1.5	>2.0	5,000	N	N	<20
1582CM41	38 25 28	112 23 56	30	.70	.7	>2.0	>10,000	5.0	N	50
1583CM41	38 25 6	112 23 14	50	.70	.7	>2.0	1,500	1.5	N	<20
1584CM41	38 24 54	112 23 22	30	.20	.7	>2.0	>10,000	2.0	N	<20
1585CM41	38 24 52	112 23 20	50	.50	.7	>2.0	2,000	1.5	N	<20
1586CM41	38 25 41	112 23 20	20	.70	.5	1.0	>10,000	5.0	N	20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1531CM42	500	30	N	15	150	30	200	70	200	10
1532CM41	3,000	30	N	N	150	30	300	200	500	20
1533CM41	3,000	100	N	N	20	50	1,000	300	300	N
1534CM41	700	100	N	<10	20	30	300	200	150	N
1535CM41	700	20	N	20	100	30	500	70	500	N
1536CM41	700	50	N	20	700	50	500	100	500	70
1537CM41	2,000	70	N	N	70	50	500	300	500	N
1539CM41	200	20	N	20	150	150	300	30	500	20
1540CM41	500	5	N	10	100	30	200	20	>5,000	N
1541CM41	2,000	7	70	N	30	15	300	30	1,500	N
1543CM41	200	5	N	50	300	30	200	7	300	30
1544CM41	1,000	15	N	70	300	100	300	70	500	50
1545CM41	2,000	50	N	N	50	30	700	150	300	20
1547CM41	200	7	N	10	70	20	150	10	1,000	N
1548CM41	2,000	15	N	N	70	100	1,500	20	2,000	N
1550CM41	2,000	15	N	N	50	10	300	70	1,000	N
1551CM41	150	10	N	50	70	30	50	10	150	N
1552CM41	200	3	N	10	50	10	50	N	500	20
1553CM42	1,000	20	N	20	100	50	300	50	500	20
1554CM42	150	15	N	10	70	20	200	7	500	N
1555CM42	150	7	N	10	70	30	300	10	700	N
1556CM42	500	7	N	N	50	20	200	10	700	N
1557CM42	70	7	N	10	100	20	300	20	700	N
1558CM42	1,000	15	N	20	200	50	300	20	700	50
1559CM42	500	15	N	70	150	20	300	7	2,000	30
1561CM42	1,000	7	N	70	700	100	200	10	100	100
1562CM42	500	7	N	50	200	100	150	15	50	70
1563CM42	300	10	N	100	70	150	200	50	70	50
1564CM42	700	10	N	150	150	150	700	15	50	150
1565CM42	1,000	10	N	50	200	150	300	10	50	50
1566CM42	3,000	<2	N	200	700	500	300	N	70	70
1567CM42	1,500	<2	N	150	700	150	150	N	<50	150
1568CM42	500	7	N	200	100	150	300	20	<50	100
1569CM42	700	7	N	200	70	200	300	10	<50	150
1570CM42	500	2	N	100	200	150	100	N	50	100
1571CM42	500	<2	N	150	300	150	100	N	50	50
1572CM42	1,000	5	N	100	500	150	100	N	<50	100
1573CM42	500	<2	N	100	300	150	150	N	70	50
1575CM42	5,000	<2	N	100	500	150	300	7	70	150
1580CM41	700	N	N	150	1,000	70	100	N	50	70
1582CM41	1,000	30	N	N	200	50	200	200	200	N
1583CM41	500	10	N	100	700	70	300	7	<50	70
1584CM41	300	15	N	70	300	70	200	100	150	30
1585CM41	300	7	N	100	700	150	300	N	<50	70
1586CM41	3,000	50	N	N	100	100	300	100	150	30

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1531CM42	700	N	<200	200	N	200.0	1,000	1,000	N
1532CM41	2,000	N	700	200	N	300.0	700	2,000	N
1533CM41	2,000	N	500	150	N	500.0	1,500	700	200
1534CM41	700	N	N	100	N	100.0	1,500	1,000	700
1535CM41	1,500	100	700	200	N	200.0	1,000	1,500	N
1536CM41	700	N	300	200	N	300.0	1,000	500	N
1537CM41	1,000	N	1,000	150	N	500.0	1,000	1,000	N
1539CM41	500	30	700	300	N	300.0	700	1,500	N
1540CM41	300	200	N	150	N	300.0	1,500	2,000	N
1541CM41	1,000	200	N	100	N	700.0	1,500	1,500	N
1543CM41	100	200	N	300	N	200.0	3,000	1,000	N
1544CM41	300	N	500	500	N	300.0	500	1,000	N
1545CM41	1,000	N	1,000	150	N	300.0	1,500	1,000	N
1547CM41	150	200	N	150	N	300.0	2,000	1,500	N
1548CM41	300	50	200	150	N	500.0	1,000	>2,000	N
1550CM41	500	300	200	150	N	700.0	1,000	>2,000	N
1551CM41	200	N	N	500	N	200.0	500	500	N
1552CM41	50	20	N	100	N	70.0	N	500	N
1553CM42	1,500	150	300	150	N	300.0	1,500	1,000	N
1554CM42	1,000	300	N	150	N	200.0	5,000	700	N
1555CM42	100	300	N	200	N	200.0	2,000	1,500	N
1556CM42	700	200	N	100	N	300.0	2,000	>2,000	N
1557CM42	100	300	N	200	N	150.0	3,000	1,500	N
1558CM42	1,000	150	200	300	N	300.0	1,000	1,000	N
1559CM42	300	200	N	300	N	300.0	1,000	1,000	N
1561CM42	200	N	<200	1,000	N	150.0	N	700	N
1562CM42	150	N	<200	700	N	70.0	N	700	N
1563CM42	300	N	200	300	N	100.0	N	1,000	N
1564CM42	150	N	300	500	N	100.0	700	300	N
1565CM42	150	N	500	700	N	100.0	300	700	N
1566CM42	150	N	<200	2,000	N	200.0	300	>2,000	N
1567CM42	70	N	N	700	N	100.0	500	700	N
1568CM42	200	N	200	300	N	150.0	N	500	N
1569CM42	300	N	<200	300	N	100.0	300	700	N
1570CM42	150	N	<200	500	N	70.0	N	500	N
1571CM42	100	N	N	700	N	70.0	500	300	N
1572CM42	150	N	200	500	N	70.0	N	300	N
1573CM42	150	N	N	1,000	N	100.0	500	1,500	N
1575CM42	300	N	200	700	N	200.0	700	500	N
1580CM41	100	N	N	1,000	N	70.0	500	300	N
1582CM41	5,000	N	700	500	N	200.0	1,000	500	N
1583CM41	300	N	200	700	N	70.0	N	500	N
1584CM41	2,000	N	300	700	N	150.0	1,000	700	N
1585CM41	500	N	200	700	N	70.0	N	1,000	N
1586CM41	10,000	N	700	200	N	70.0	1,500	500	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1587CM41	38 25 38	112 23 38	30	.50	.7	>2.0	1,000	N	N	20
1588CM41	38 25 53	112 22 56	30	1.00	1.0	>2.0	>10,000	2.0	N	<20
1590CM41	38 26 2	112 22 25	30	1.00	1.0	>2.0	2,000	.7	N	20
1591CM41	38 25 46	112 22 42	50	1.50	1.5	>2.0	3,000	N	N	20
1592CM42	38 16 52	112 34 4	15	5.00	5.0	2.0	7,000	N	N	<20
1593CM42	38 16 22	112 33 27	15	5.00	3.0	2.0	3,000	.7	N	<20
1594CM41	38 27 31	112 15 45	30	.50	.7	>2.0	>10,000	N	N	20
1595CM41	38 27 30	112 17 17	30	.50	.7	>2.0	>10,000	N	N	20
1596CM41	38 27 31	112 21 8	50	1.00	1.5	>2.0	2,000	5.0	N	<20
1598CM41	38 29 15	112 19 54	30	.70	.7	>2.0	1,500	N	N	30
1654CM14	38 41 16	112 10 49	30	7.00	3.0	>2.0	7,000	N	N	<20
1666CM14	38 40 48	112 12 3	15	7.00	5.0	1.5	5,000	N	N	<20
1667CM14	38 41 56	112 13 56	15	7.00	5.0	1.5	5,000	N	N	<20
1668CM14	38 34 3	112 7 41	30	.50	1.5	>2.0	7,000	5.0	N	20
1670CM14	38 36 55	112 9 47	50	1.50	2.0	>2.0	7,000	N	N	20
1671CM14	38 35 52	112 10 52	50	1.50	1.0	>2.0	10,000	N	N	20
1672CM14	38 33 28	112 11 4	20	2.00	2.0	>2.0	10,000	N	N	20
1673CM14	38 32 6	112 8 15	30	.50	1.0	>2.0	2,000	N	N	20
1674CM14	38 30 53	112 8 29	30	1.50	3.0	>2.0	7,000	N	1,000	70
1675CM14	38 30 56	112 10 31	30	3.00	5.0	>2.0	7,000	N	N	20
1676CM14	38 31 11	112 11 52	50	.70	1.0	>2.0	2,000	5.0	N	100
1677CM14	38 30 20	112 14 3	50	.50	.7	>2.0	3,000	N	N	20
1678CM14	38 32 13	112 14 34	30	.50	1.0	>2.0	3,000	N	N	20
1679CM14	38 32 18	112 12 44	50	.15	.5	.5	1,000	N	N	30
1680CM14	38 34 10	112 13 34	30	2.00	2.0	>2.0	7,000	N	N	<20
1681CM14	38 35 55	112 13 19	20	10.00	5.0	>2.0	10,000	N	N	<20
1682CM14	38 34 48	112 14 52	15	7.00	5.0	1.5	3,000	N	N	<20
1683CM14	38 34 47	112 14 55	30	5.00	3.0	>2.0	7,000	N	N	<20
1684CM14	38 34 44	112 14 56	20	5.00	5.0	1.5	5,000	N	N	<20
1685CM14	38 35 59	112 15 29	30	5.00	5.0	>2.0	5,000	N	N	<20
1686CM14	38 36 18	112 16 53	30	1.00	1.5	>2.0	7,000	N	N	20
1687CM14	38 37 48	112 15 4	15	10.00	10.0	.5	5,000	N	N	<20
1689CM14	38 40 15	112 16 10	20	5.00	3.0	>2.0	5,000	N	N	<20
1698CM14	38 41 30	112 19 22	15	5.00	3.0	2.0	5,000	.7	N	<20
1699CM14	38 42 21	112 17 23	15	5.00	3.0	2.0	3,000	N	N	<20
1702CM14	38 37 58	112 26 58	>50	3.00	2.0	>2.0	7,000	N	N	<20
1703CM14	38 39 42	112 25 24	20	5.00	3.0	2.0	5,000	N	N	<20
1705CM14	38 40 5	112 23 51	>50	.50	1.0	>2.0	3,000	N	N	<20
1707CM14	38 40 9	112 23 42	>50	1.50	2.0	>2.0	5,000	N	N	20
1708CM14	38 39 38	112 23 38	20	5.00	3.0	>2.0	5,000	N	N	20
1709CM14	38 38 14	112 23 53	10	7.00	5.0	1.5	3,000	N	N	<20
1710CM14	38 37 55	112 23 47	30	1.50	1.5	>2.0	3,000	N	N	20
1711CM14	38 40 12	112 26 40	20	5.00	5.0	2.0	5,000	N	N	<20
1713CM14	38 38 57	112 28 13	30	1.50	2.0	>2.0	3,000	N	N	<20
1714CM14	38 41 21	112 27 25	20	5.00	3.0	2.0	2,000	N	N	30

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1587CM41	500	15	N	50	200	30	300	100	100	30
1588CM41	1,000	20	N	30	50	50	300	100	70	N
1590CM41	700	7	N	70	1,000	100	200	N	<50	50
1591CM41	300	3	N	50	200	70	200	N	<50	50
1592CM42	1,000	N	N	70	700	70	1,000	N	<50	200
1593CM42	200	N	N	100	300	150	100	N	<50	150
1594CM41	150	2	N	10	70	30	500	10	5,000	N
1595CM41	1,000	10	N	30	150	30	300	N	300	20
1596CM41	500	7	N	70	500	150	500	N	<50	100
1598CM41	300	5	N	70	500	100	100	7	70	150
1654CM14	150	<2	N	70	150	100	50	N	<50	100
1666CM14	100	N	N	70	150	150	50	N	N	70
1667CM14	150	<2	N	70	150	30	50	N	<50	100
1668CM14	1,500	7	N	100	150	200	300	10	<50	50
1670CM14	700	2	N	100	500	150	500	15	70	70
1671CM14	300	7	N	70	700	50	500	20	100	100
1672CM14	1,500	2	N	100	300	150	300	15	150	100
1673CM14	500	7	N	50	100	150	200	30	70	20
1674CM14	700	10	N	150	150	200	700	70	70	100
1675CM14	700	5	N	100	500	100	1,000	10	100	100
1676CM14	500	10	N	100	200	200	1,500	20	70	100
1677CM14	300	<2	N	70	200	100	150	15	50	20
1678CM14	300	<2	N	100	200	150	300	N	<50	50
1679CM14	700	N	N	<10	150	50	50	70	<50	N
1680CM14	1,500	<2	N	100	100	70	150	N	N	N
1681CM14	2,000	N	N	150	500	50	70	N	<50	70
1682CM14	500	N	N	100	200	50	150	N	<50	70
1683CM14	1,000	N	N	150	150	150	300	N	<50	70
1684CM14	1,000	<2	N	100	200	150	200	N	<50	50
1685CM14	150	<2	N	100	500	150	1,500	7	70	100
1686CM14	150	<2	N	100	300	50	1,500	7	100	70
1687CM14	100	N	N	70	100	50	N	N	N	50
1689CM14	300	2	N	70	300	50	100	N	<50	70
1698CM14	500	<2	N	100	150	30	500	N	<50	150
1699CM14	300	<2	N	70	300	70	1,000	N	<50	150
1702CM14	500	N	N	200	1,000	100	N	N	<50	150
1703CM14	300	2	N	100	300	50	70	N	<50	100
1705CM14	500	N	N	200	1,000	100	100	N	N	150
1707CM14	500	N	N	150	700	150	150	N	<50	150
1708CM14	300	2	N	100	300	70	50	N	50	100
1709CM14	1,500	<2	N	50	150	30	50	N	<50	50
1710CM14	300	N	N	150	1,500	100	50	N	<50	100
1711CM14	500	N	N	70	700	50	50	N	<50	150
1713CM14	200	N	N	150	700	70	50	N	<50	100
1714CM14	500	<2	N	70	500	70	1,000	N	<50	150

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1587CM41	1,000	N	200	1,000	N	100.0	500	1,000	N
1588CM41	2,000	N	500	500	N	100.0	1,000	1,000	N
1590CM41	200	N	300	1,000	N	70.0	N	300	N
1591CM41	300	N	300	1,000	N	50.0	N	200	N
1592CM42	50	20	<200	500	N	200.0	300	1,000	N
1593CM42	20	N	200	300	N	100.0	500	200	N
1594CM41	200	200	N	150	N	300.0	2,000	300	N
1595CM41	300	N	N	300	N	200.0	1,500	>2,000	N
1596CM41	300	N	200	700	N	70.0	300	700	150
1598CM41	100	N	300	500	N	70.0	500	200	N
1654CM14	30	N	N	500	N	100.0	300	700	N
1666CM14	20	N	<200	500	N	70.0	N	100	N
1667CM14	20	N	N	500	N	70.0	N	150	N
1668CM14	300	N	500	700	N	50.0	N	200	N
1670CM14	100	N	<200	1,000	N	100.0	500	1,000	N
1671CM14	100	N	N	700	N	150.0	700	500	N
1672CM14	500	N	200	500	N	150.0	500	2,000	N
1673CM14	300	N	<200	700	N	100.0	300	500	N
1674CM14	200	N	300	500	100	200.0	N	2,000	200
1675CM14	100	N	200	1,000	N	300.0	700	1,500	N
1676CM14	300	N	<200	700	N	100.0	N	>2,000	N
1677CM14	100	N	<200	700	N	70.0	500	200	N
1678CM14	70	N	<200	1,000	N	70.0	700	200	N
1679CM14	70	N	700	300	N	20.0	N	200	N
1680CM14	70	N	300	700	N	100.0	N	200	N
1681CM14	100	N	200	700	N	100.0	300	300	N
1682CM14	70	N	500	500	N	70.0	300	300	N
1683CM14	70	N	500	700	N	100.0	500	500	N
1684CM14	50	N	500	700	N	100.0	300	200	N
1685CM14	70	N	N	500	N	150.0	500	500	N
1686CM14	100	N	N	500	N	150.0	1,000	500	150
1687CM14	20	N	N	300	N	70.0	N	50	N
1689CM14	30	N	200	500	N	100.0	700	200	N
1698CM14	50	N	200	500	N	150.0	300	200	N
1699CM14	30	N	200	300	N	150.0	N	300	N
1702CM14	30	N	N	1,500	N	100.0	1,000	300	N
1703CM14	30	N	<150	700	N	100.0	500	300	N
1705CM14	50	N	N	1,500	N	50.0	2,000	700	150
1707CM14	50	N	N	1,500	N	100.0	1,000	500	N
1708CM14	30	N	<200	700	N	150.0	500	300	N
1709CM14	20	N	<200	500	N	100.0	N	300	N
1710CM14	30	N	<200	1,000	N	70.0	1,000	700	N
1711CM14	70	N	<200	700	N	70.0	300	300	N
1713CM14	50	N	N	1,000	N	70.0	700	300	N
1714CM14	50	N	200	500	N	150.0	N	300	150

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1715CM14	38 41 44	112 28 9	30	1.50	1.0	1.0	5,000	N	N	500
1718CM14	38 42 11	112 24 22	20	7.00	5.0	1.5	3,000	N	N	<20
1720CM14	38 35 45	112 28 38	50	3.00	1.5	>2.0	3,000	N	N	<20
1721CM14	38 36 10	112 26 39	15	5.00	3.0	2.0	5,000	N	N	20
1722CM14	38 35 21	112 27 22	20	7.00	5.0	2.0	7,000	N	N	<20
1723CM14	38 32 37	112 28 19	30	.70	.7	>2.0	10,000	N	N	20
1724CM14	38 32 48	112 26 54	30	3.00	2.0	>2.0	10,000	N	N	100
1725CM14	38 32 19	112 26 44	30	1.50	1.5	>2.0	>10,000	N	N	30
1726CM14	38 34 29	112 25 16	10	5.00	3.0	1.5	5,000	N	N	<20
1727CM14	38 34 47	112 19 45	30	2.00	1.5	>2.0	10,000	N	N	20
1728CM14	38 34 9	112 19 53	20	3.00	5.0	>2.0	10,000	N	N	30
1729CM14	38 35 5	112 24 24	20	5.00	3.0	1.5	5,000	N	N	<20
1730CM14	38 32 53	112 22 16	30	3.00	3.0	>2.0	10,000	N	N	50
1731CM14	38 33 46	112 22 1	15	7.00	7.0	1.5	7,000	N	N	50
1732CM14	38 33 35	112 23 55	7	5.00	3.0	1.0	3,000	N	N	70
1733CM14	38 33 38	112 23 46	15	5.00	5.0	1.5	7,000	N	N	<20
1735CM14	38 33 12	112 25 41	30	2.00	3.0	>2.0	10,000	N	N	150
1737CM14	38 32 37	112 24 39	20	5.00	3.0	>2.0	10,000	N	N	50
1738CM14	38 32 38	112 23 25	30	3.00	3.0	>2.0	10,000	N	N	70
1739CM14	38 30 58	112 25 15	30	.30	.5	>2.0	>10,000	N	N	<20
1740CM14	38 31 50	112 23 26	50	1.00	1.5	>2.0	>10,000	N	N	50
1741CM14	38 30 58	112 23 44	30	.50	.5	>2.0	7,000	N	N	30
1742CM14	38 33 53	112 17 49	20	3.00	3.0	2.0	7,000	N	N	20
1743CM14	38 30 48	112 19 22	20	3.00	3.0	>2.0	7,000	N	N	20
1744CM41	38 21 31	112 14 14	20	.50	1.5	2.0	1,500	.7	500	30
1745CM41	38 19 38	112 13 39	50	1.00	2.0	>2.0	2,000	N	N	20
1747CM41	38 19 9	112 13 24	10	2.00	2.0	1.5	1,500	N	N	20
1749CM41	38 18 14	112 14 16	20	5.00	5.0	1.5	3,000	N	N	<20
1750CM41	38 20 25	112 9 49	10	7.00	3.0	1.5	3,000	N	N	N
1752CM41	38 18 10	112 9 50	10	10.00	5.0	.5	2,000	N	N	<20
1753CM41	38 16 29	112 7 39	10	10.00	7.0	1.5	3,000	N	N	<20
1754CM41	38 18 20	112 8 43	15	5.00	7.0	2.0	3,000	N	N	<20
1755CM41	38 29 30	112 27 16	15	3.00	3.0	1.5	10,000	N	N	20
1756CM41	38 28 29	112 27 21	50	.70	.7	>2.0	>10,000	N	N	20
1757CM41	38 28 0	112 27 1	30	2.00	1.5	>2.0	10,000	N	N	30
1758CM41	38 28 0	112 27 7	30	2.00	1.5	>2.0	10,000	N	N	50
1760CM41	38 29 20	112 26 26	50	1.00	2.0	>2.0	1,500	N	N	20
1761CM14	38 33 47	112 16 26	20	3.00	2.0	2.0	300	N	N	<20
1762CM14	38 32 11	112 16 10	50	1.50	1.5	>2.0	7,000	N	N	10
1764CM14	38 32 4	112 16 22	30	.50	1.0	>2.0	7,000	N	N	20
1765CM14	38 31 3	112 15 58	30	.10	.5	.3	1,000	1.0	N	30
1771CM41	38 15 19	112 10 15	20	10.00	7.0	>2.0	5,000	N	N	20
1772CM41	38 16 41	112 11 18	7	3.00	5.0	1.0	5,000	N	N	<20
1773CM41	38 17 45	112 11 38	20	5.00	3.0	2.0	5,000	N	N	<20
1776CM41	38 21 1	112 6 23	10	5.00	3.0	.5	3,000	N	N	70

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1715CM14	1,500	5	N	50	2,000	70	700	15	50	70
1718CM14	300	<2	N	100	500	50	150	N	<50	100
1720CM14	500	<2	N	150	700	100	150	N	<50	100
1721CM14	300	<2	N	70	200	150	70	N	<50	70
1722CM14	500	2	N	70	150	50	50	N	<50	70
1723CM14	500	<2	N	100	200	150	1,000	50	300	20
1724CM14	500	2	N	100	300	100	1,500	30	500	150
1725CM14	300	2	N	N	300	30	1,500	30	500	100
1726CM14	700	2	N	70	200	20	70	N	<50	100
1727CM14	200	3	N	100	500	100	500	20	200	70
1728CM14	700	2	N	100	200	70	1,000	N	70	50
1729CM14	300	2	N	70	300	30	100	N	<50	100
1730CM14	700	5	N	100	500	50	1,000	10	150	70
1731CM14	1,500	2	N	100	300	70	700	N	70	100
1732CM14	700	2	N	50	100	50	100	N	<50	50
1733CM14	300	<2	N	70	200	70	200	N	50	70
1735CM14	500	3	N	70	300	50	1,000	15	300	100
1737CM14	300	5	N	70	300	50	2,000	15	500	70
1738CM14	700	7	N	100	150	100	1,000	10	150	70
1739CM14	300	7	N	20	150	50	1,000	15	700	N
1740CM14	500	5	N	70	300	50	>2,000	30	300	30
1741CM14	500	20	N	50	150	50	500	N	70	30
1742CM14	1,000	3	N	70	200	70	300	7	50	70
1743CM14	2,000	2	N	100	300	100	500	N	100	50
1744CM41	10,000	7	N	30	200	150	300	7	<50	70
1745CM41	500	<2	N	70	500	100	300	N	50	100
1747CM41	300	2	N	50	700	50	150	N	<50	200
1749CM41	500	<2	N	50	1,000	100	50	N	N	300
1750CM41	300	2	N	70	150	20	50	N	<50	50
1752CM41	150	N	N	100	1,500	20	150	N	N	500
1753CM41	150	<2	N	70	1,000	20	50	7	N	500
1754CM41	300	N	N	100	1,000	70	200	N	<50	150
1755CM41	300	20	N	50	700	30	200	100	300	100
1756CM41	300	10	N	30	150	30	500	10	1,500	N
1757CM41	700	20	N	50	500	50	500	7	200	70
1758CM41	500	20	N	70	300	50	300	15	700	50
1760CM41	500	3	N	70	1,000	150	200	7	<50	100
1761CM14	2,000	<2	N	50	150	70	200	N	<50	70
1762CM14	1,000	2	N	70	200	150	100	N	<50	30
1764CM14	1,000	2	N	50	200	100	150	N	<50	30
1765CM14	1,500	<2	N	15	50	150	200	15	N	N
1771CM41	300	2	N	50	150	30	300	N	<50	50
1772CM41	300	N	N	70	700	30	50	N	N	150
1773CM41	1,000	2	N	50	500	70	100	N	N	100
1776CM41	200	7	N	30	70	30	200	N	N	20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1715CM14	150	N	300	500	N	150.0	500	700	N
1718CM14	30	N	<200	500	N	100.0	300	200	N
1720CM14	70	N	N	700	N	70.0	500	700	N
1721CM14	30	N	200	300	N	100.0	500	300	N
1722CM14	20	N	<200	500	N	100.0	N	200	N
1723CM14	100	N	N	1,000	N	100.0	1,500	700	N
1724CM14	150	N	N	500	N	200.0	1,000	1,000	N
1725CM14	200	200	N	300	N	300.0	1,500	1,500	N
1726CM14	20	N	<200	300	N	150.0	N	1,000	N
1727CM14	150	N	N	500	N	150.0	1,000	500	N
1728CM14	100	N	<200	500	N	100.0	300	700	N
1729CM14	20	N	N	500	N	150.0	N	500	N
1730CM14	200	N	N	700	N	150.0	700	1,000	N
1731CM14	50	N	300	500	N	200.0	N	700	N
1732CM14	20	N	500	300	N	100.0	N	300	N
1733CM14	30	N	200	500	N	100.0	N	500	N
1735CM14	150	50	<200	300	N	300.0	1,000	2,000	N
1737CM14	300	200	<200	500	N	300.0	700	1,000	150
1738CM14	300	N	<200	700	N	150.0	700	500	N
1739CM14	150	200	N	300	N	200.0	2,000	1,000	N
1740CM14	300	100	N	300	N	200.0	1,000	2,000	150
1741CM14	300	N	<200	500	N	200.0	500	300	N
1742CM14	150	N	500	700	N	100.0	300	500	N
1743CM14	300	N	200	700	N	200.0	500	500	N
1744CM41	200	N	500	500	N	100.0	N	300	N
1745CM41	150	N	<200	700	N	70.0	N	300	N
1747CM41	150	N	300	500	N	70.0	N	300	N
1749CM41	30	N	500	700	N	70.0	N	700	150
1750CM41	<20	N	200	500	N	100.0	N	300	N
1752CM41	N	N	200	300	N	50.0	N	50	N
1753CM41	100	N	200	300	N	50.0	N	100	N
1754CM41	30	N	200	700	N	70.0	N	200	N
1755CM41	700	700	200	500	N	100.0	500	700	N
1756CM41	300	150	N	300	N	200.0	1,500	2,000	N
1757CM41	1,500	N	300	300	N	100.0	700	700	N
1758CM41	700	100	<200	500	N	300.0	1,500	1,500	N
1760CM41	200	N	<200	1,000	N	50.0	N	150	N
1761CM14	70	N	200	700	N	70.0	N	500	N
1762CM14	150	N	700	1,000	N	70.0	N	500	N
1764CM14	150	N	300	700	N	70.0	N	500	N
1765CM14	300	N	5,000	300	N	20.0	N	300	N
1771CM41	30	N	500	700	N	150.0	N	700	N
1772CM41	30	N	700	300	N	70.0	N	200	N
1773CM41	70	N	500	500	N	70.0	N	100	N
1776CM41	100	N	200	500	N	70.0	N	200	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
1777CM41	38 22 25	112 4 54	10	7.00	7.0	.7	5,000	N	N	<20
1778CM41	38 22 35	112 4 48	10	7.00	10.0	.7	5,000	N	N	20
1779CM44	38 23 6	112 3 45	15	5.00	5.0	1.5	5,000	N	N	<20
1780CM41	38 23 58	112 3 6	7	7.00	5.0	1.0	3,000	N	N	20
1781CM41	38 24 33	112 2 18	7	7.00	7.0	1.0	7,000	N	N	<20
1783CM41	38 25 2	112 2 38	20	10.00	7.0	2.0	7,000	N	N	20
1784CM41	38 24 27	112 0 39	10	7.00	5.0	1.0	3,000	N	N	<20
1786CM41	38 24 28	112 0 35	15	7.00	5.0	1.0	3,000	N	N	50
1789CM41	38 29 21	112 0 9	50	5.00	5.0	>2.0	7,000	N	N	30
1790CM41	38 27 40	112 3 48	15	5.00	5.0	>2.0	3,000	N	N	20
1792CM41	38 29 19	112 4 22	30	5.00	5.0	>2.0	5,000	N	N	<20
1867CM13	38 30 24	112 35 16	15	7.00	5.0	>2.0	5,000	N	N	<20
1868CM13	38 30 20	112 35 3	15	5.00	3.0	2.0	5,000	N	N	<20
1869CM13	38 30 12	112 34 58	30	7.00	5.0	>2.0	10,000	N	N	<20
1870CM13	38 30 14	112 34 21	50	1.50	1.5	>2.0	5,000	N	N	N
1871CM13	38 30 10	112 34 23	50	2.00	1.0	>2.0	3,000	N	N	<20
1872CM13	38 30 11	112 34 1	50	1.50	1.5	>2.0	3,000	N	N	<20
1873CM13	38 30 7	112 34 3	>50	.50	.7	>2.0	3,000	N	N	20
1874CM13	38 30 7	112 33 48	30	1.00	1.0	>2.0	5,000	N	N	<20
1875CM42	38 27 0	112 34 27	30	.50	1.0	1.0	1,500	.7	N	30
2122CM41	38 15 4	112 0 38	15	5.00	3.0	>2.0	7,000	N	N	<20
2124CM41	38 16 38	112 0 26	15	7.00	5.0	1.5	3,000	N	N	<20
2127CM41	38 18 24	112 2 32	7	3.00	3.0	1.0	3,000	N	N	70
2128CM41	38 17 14	112 3 30	15	5.00	3.0	2.0	3,000	N	N	<20
2129CM41	38 19 3	112 3 51	15	10.00	5.0	1.5	3,000	N	N	20
2131CM14	38 39 20	112 14 14	10	5.00	5.0	1.5	5,000	N	N	<20
2133CM14	38 39 19	112 14 14	15	7.00	5.0	2.0	5,000	N	N	<20
2134CM13	38 37 49	112 17 5	30	2.00	2.0	>2.0	5,000	1.0	N	<20
2140CM13	38 39 50	112 29 37	50	1.00	2.0	.7	7,000	N	700	30
2141CM13	38 32 9	112 31 5	50	1.50	1.0	>2.0	7,000	N	N	<20
2142CM13	38 33 18	112 30 13	10	10.00	7.0	1.5	5,000	N	N	<20
2143CM14	38 34 30	112 28 45	30	3.00	3.0	>2.0	7,000	N	N	100
2144CM14	38 32 21	112 28 57	50	.70	.7	>2.0	3,000	N	N	30
2145CM14	38 30 50	112 27 32	50	.50	.7	>2.0	7,000	N	N	50
2146CM14	38 30 59	112 21 36	30	1.50	1.0	>2.0	>10,000	N	700	20
2147CM14	38 35 17	112 18 20	20	5.00	5.0	>2.0	10,000	N	N	50
2148CM14	38 35 25	112 21 35	15	7.00	5.0	1.5	5,000	N	N	<20
2149CM14	38 36 59	112 24 5	10	7.00	5.0	1.0	5,000	N	N	<20
2150CM13	38 31 59	112 35 2	15	5.00	3.0	>2.0	5,000	N	N	<20
2151CM41	38 29 23	112 10 56	3	5.00	7.0	>2.0	3,000	N	N	70
2152CM41	38 21 54	112 10 54	20	7.00	7.0	>2.0	5,000	N	N	100
2153CM41	38 28 53	112 2 18	50	5.00	3.0	>2.0	3,000	N	N	20
2154CM41	38 20 58	112 4 34	15	7.00	7.0	1.0	3,000	N	N	<20
2155CM41	38 19 19	112 6 17	20	7.00	10.0	1.5	7,000	N	N	<20
2301CM41	38 28 41	112 20 36	50	.70	1.5	>2.0	10,000	2.0	N	20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
1777CM41	700	N	N	70	1,000	50	<50	N	N	100
1778CM41	500	N	N	50	300	30	50	N	N	50
1779CM44	700	<2	N	70	150	50	100	N	N	20
1780CM41	200	<2	N	50	500	20	N	N	N	150
1781CM41	200	N	N	70	200	30	N	N	N	50
1783CM41	500	<2	N	70	500	50	<50	N	N	50
1784CM41	200	N	N	70	700	50	300	7	N	150
1786CM41	150	N	N	70	1,000	30	N	N	N	100
1789CM41	300	<2	N	100	500	70	1,000	10	70	150
1790CM41	300	<2	N	70	500	70	100	N	<50	100
1792CM41	700	2	N	100	700	150	100	10	<50	50
1867CM13	300	<2	N	100	300	50	100	N	50	100
1868CM13	200	<2	N	100	300	70	200	N	<50	150
1869CM13	2,000	<2	N	50	300	150	500	N	70	150
1870CM13	700	<2	N	100	700	150	300	N	<50	150
1871CM13	1,500	<2	N	150	1,000	70	150	N	70	70
1872CM13	500	<2	N	100	500	50	300	N	<50	100
1873CM13	300	<2	N	100	500	100	100	N	<50	50
1874CM13	500	<2	N	150	500	100	200	N	100	50
1875CM42	700	3	N	150	200	150	100	10	<50	150
2122CM41	500	5	N	70	200	50	200	N	50	100
2124CM41	500	<2	N	100	300	70	200	N	N	100
2127CM41	300	<2	N	70	300	50	50	N	N	100
2128CM41	500	N	N	100	500	100	100	N	<50	100
2129CM41	200	N	N	100	700	50	500	N	<50	300
2131CM14	300	2	N	70	150	20	200	N	<50	100
2133CM14	300	2	N	70	150	20	100	N	<50	50
2134CM13	300	<2	N	150	500	50	200	N	<50	100
2140CM13	1,500	2	N	70	150	300	700	50	50	200
2141CM13	1,000	N	N	100	300	150	300	15	50	20
2142CM13	200	<2	N	70	1,000	70	500	N	50	150
2143CM14	500	<2	N	100	200	150	500	10	70	50
2144CM14	700	2	N	100	100	100	200	50	70	20
2145CM14	300	7	N	70	500	100	1,000	10	300	70
2146CM14	2,000	30	N	100	100	70	300	100	100	30
2147CM14	300	3	N	70	300	50	1,000	10	150	70
2148CM14	700	<2	N	70	200	30	70	N	<50	70
2149CM14	700	2	N	70	150	20	50	N	<50	70
2150CM13	700	<2	N	70	200	30	200	N	100	100
2151CM41	2,000	3	N	15	1,000	50	700	20	300	100
2152CM41	300	2	N	100	700	100	200	7	<50	100
2153CM41	300	N	N	100	1,000	100	100	N	50	100
2154CM41	500	N	N	70	500	50	N	N	N	70
2155CM41	700	N	N	100	500	50	150	N	N	100
2301CM41	1,000	50	N	70	200	150	200	10	100	50

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
1777CM41	70	N	300	500	N	70.0	N	70	N
1778CM41	30	N	200	500	N	70.0	N	200	150
1779CM44	30	N	300	500	N	70.0	N	300	N
1780CM41	20	N	300	300	N	70.0	N	500	N
1781CM41	<20	N	200	300	N	70.0	N	300	N
1783CM41	20	N	300	700	N	100.0	N	300	N
1784CM41	<20	N	200	300	N	70.0	N	300	N
1786CM41	N	N	200	300	N	200.0	N	100	N
1789CM41	50	50	N	1,500	N	200.0	700	1,500	N
1790CM41	30	N	<200	500	N	70.0	N	300	150
1792CM41	70	N	200	1,000	N	70.0	N	200	N
1867CM13	30	N	<200	500	N	100.0	N	150	N
1868CM13	50	N	<150	200	N	70.0	N	300	N
1869CM13	100	N	<200	500	N	200.0	N	1,000	N
1870CM13	70	N	N	500	N	100.0	1,000	500	N
1871CM13	50	N	<200	700	N	70.0	700	500	N
1872CM13	70	N	N	700	N	70.0	500	1,000	N
1873CM13	50	N	N	500	N	70.0	700	500	N
1874CM13	50	N	N	500	N	150.0	500	700	N
1875CM42	300	N	500	500	N	70.0	N	500	N
2122CM41	100	N	300	300	N	50.0	N	500	N
2124CM41	20	N	500	500	N	100.0	N	150	N
2127CM41	30	N	500	500	N	100.0	N	200	N
2128CM41	30	N	500	500	N	70.0	N	200	N
2129CM41	20	N	300	300	N	70.0	N	200	N
2131CM14	20	N	<200	300	N	150.0	N	500	N
2133CM14	20	N	<200	300	N	150.0	N	300	N
2134CM13	20	N	N	700	N	100.0	1,000	300	N
2140CM13	300	N	<200	300	N	70.0	N	500	N
2141CM13	150	N	N	1,000	N	70.0	1,000	500	N
2142CM13	50	N	<200	300	N	150.0	N	700	N
2143CM14	50	N	N	700	N	150.0	1,000	1,000	N
2144CM14	70	N	<200	1,000	N	70.0	700	500	N
2145CM14	200	N	<200	1,000	N	150.0	500	700	150
2146CM14	1,000	N	500	500	N	150.0	1,500	700	N
2147CM14	100	N	<200	300	N	150.0	500	500	N
2148CM14	20	N	<200	700	N	150.0	500	500	N
2149CM14	20	N	200	300	N	150.0	N	500	N
2150CM13	30	N	N	500	N	100.0	N	300	N
2151CM41	200	100	200	200	N	700.0	N	>2,000	500
2152CM41	50	N	200	500	N	70.0	N	200	N
2153CM41	50	N	N	1,500	N	70.0	500	500	N
2154CM41	20	N	300	500	N	70.0	N	200	N
2155CM41	50	N	200	500	N	100.0	500	300	N
2301CM41	150	N	700	500	N	100.0	500	300	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2302CM41	38 28 30	112 20 49	30	.70	1.5	>2.0	10,000	N	N	20
2303CM41	38 28 32	112 20 52	30	.70	1.0	>2.0	7,000	N	N	20
2304CM44	38 28 28	112 20 51	20	7.00	5.0	>2.0	5,000	N	N	<20
2305CM41	38 27 50	112 22 28	30	1.50	1.5	>2.0	7,000	N	N	20
2306CM41	38 27 39	112 22 29	50	1.00	1.0	>2.0	>10,000	2.0	N	20
2307CM41	38 27 37	112 22 19	30	3.00	2.0	>2.0	7,000	N	N	20
2309CM41	38 26 28	112 15 9	50	.30	.7	>2.0	10,000	N	N	20
2311CM41	38 26 23	112 18 44	50	.70	1.5	>2.0	3,000	N	N	20
2313CM41	38 24 58	112 18 37	30	.70	2.0	>2.0	2,000	1.0	N	<20
2314CM41	38 25 7	112 19 19	30	1.00	1.5	1.0	3,000	5.0	N	<20
2315CM41	38 29 14	112 15 9	30	1.00	1.5	>2.0	>10,000	N	N	30
2316CM41	38 28 23	112 14 24	20	3.00	3.0	>2.0	>10,000	N	N	30
2317CM41	38 28 52	112 13 14	30	3.00	3.0	>0	10,000	N	N	70
2319CM41	38 28 55	112 13 19	20	3.00	3.0	>2.0	>10,000	N	N	70
2320CM41	38 29 18	112 11 52	50	5.00	5.0	>2.0	7,000	N	N	70
2321CM41	38 27 6	112 12 26	30	2.00	3.0	>2.0	7,000	N	N	20
2322CM41	38 28 20	112 10 55	50	1.00	1.5	>2.0	5,000	1.0	N	20
2323CM41	38 27 8	112 9 59	20	3.00	5.0	>2.0	5,000	N	N	20
2324CM41	38 25 3	112 10 38	7	5.00	5.0	1.5	7,000	N	N	50
2325CM41	38 24 14	112 11 20	20	5.00	7.0	2.0	7,000	N	N	30
2326CM41	38 26 1	112 12 14	10	7.00	7.0	1.0	10,000	N	N	20
2327CM41	38 23 40	112 19 12	50	.30	1.0	1.0	1,500	2.0	N	<20
2329CM41	38 23 25	112 16 23	50	.70	1.0	.7	1,500	50.0	500	30
2330CM41	38 21 48	112 17 7	20	.70	1.0	.7	5,000	10.0	1,500	50
2332CM41	38 21 51	112 19 37	50	.50	.7	>2.0	1,500	N	N	20
2333CM41	38 20 59	112 18 58	50	1.00	1.5	>2.0	3,000	N	N	20
2334CM41	38 22 10	112 15 29	50	.70	.7	.7	2,000	70.0	2,000	30
2336CM41	38 15 59	112 15 36	50	1.00	2.0	>2.0	3,000	2.0	N	20
2337CM41	38 17 43	112 15 41	10	7.00	5.0	1.5	3,000	N	N	<20
2339CM41	38 16 16	112 17 39	7	7.00	3.0	1.0	2,000	N	N	<20
2340CM41	38 18 17	112 17 38	10	3.00	3.0	1.0	2,000	N	N	<20
2345CM42	38 16 37	112 31 31	30	3.00	2.0	>2.0	7,000	N	N	30
2346CM42	38 17 13	112 31 8	30	2.00	1.5	>2.0	7,000	N	N	20
2347CM42	38 20 26	112 31 19	20	5.00	3.0	>2.0	3,000	N	N	20
2348CM42	38 20 58	112 31 5	50	.50	.7	>2.0	2,000	N	N	30
2349CM41	38 20 31	112 29 22	30	.70	.7	>2.0	2,000	N	N	30
2350CM41	38 20 42	112 28 54	30	.50	.5	>2.0	2,000	N	N	20
2351CM41	38 20 35	112 28 54	30	5.00	5.0	>2.0	3,000	N	N	20
2352CM41	38 21 1	112 28 16	20	7.00	5.0	2.0	2,000	N	N	30
2353CM41	38 20 59	112 28 23	30	.50	.5	>2.0	2,000	N	N	50
2354CM41	38 21 17	112 27 58	30	.70	1.0	>2.0	3,000	N	N	50
2355CM41	38 21 4	112 27 6	30	3.00	3.0	>2.0	3,000	N	N	20
2356CM41	38 21 3	112 27 7	20	2.00	3.0	>2.0	3,000	N	N	20
2375CM42	38 29 20	112 32 7	50	1.00	1.5	>2.0	5,000	N	N	<20
2376CM42	38 29 21	112 32 13	30	2.00	1.5	>2.0	5,000	N	N	<20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2302CM41	700	20	N	70	300	150	300	20	100	50
2303CM41	700	15	N	150	500	100	300	20	150	100
2304CM44	200	2	N	100	300	50	500	N	<50	50
2305CM41	700	10	N	100	1,000	50	300	7	70	100
2306CM41	1,000	50	N	70	1,000	100	500	70	70	150
2307CM41	500	7	N	70	3,000	50	300	7	<50	100
2309CM41	1,000	10	N	150	300	150	300	7	70	70
2311CM41	500	<2	N	100	1,000	70	300	N	<50	70
2313CM41	500	5	N	70	300	100	150	7	<50	50
2314CM41	500	5	N	100	500	150	300	7	<50	70
2315CM41	3,000	5	N	70	200	20	2,000	20	500	20
2316CM41	1,000	5	N	70	500	100	300	20	1,000	70
2317CM41	1,500	7	N	50	500	150	500	30	70	100
2319CM41	2,000	10	N	100	300	150	500	70	70	150
2320CM41	1,000	7	N	100	500	150	200	15	50	100
2321CM41	700	3	N	100	300	150	200	N	<50	70
2322CM41	1,000	5	N	70	200	100	200	15	50	20
2323CM41	300	3	N	100	500	50	100	7	50	100
2324CM41	500	2	N	70	500	50	300	7	<50	150
2325CM41	1,000	<2	N	100	1,000	150	200	7	<50	100
2326CM41	1,500	2	N	100	700	70	200	15	<50	150
2327CM41	200	3	N	100	500	200	200	N	<50	100
2329CM41	700	7	N	100	150	1,000	150	50	<50	150
2330CM41	700	10	N	100	150	150	150	7	<50	70
2332CM41	300	<2	N	70	500	100	150	N	N	70
2333CM41	1,500	5	N	100	700	100	300	N	<50	50
2334CM41	2,000	20	N	100	300	500	100	10	N	300
2336CM41	500	20	N	70	300	200	300	30	70	20
2337CM41	150	<2	N	70	500	30	100	N	N	200
2339CM41	200	<2	N	70	700	50	70	N	N	500
2340CM41	300	2	N	70	1,000	50	50	N	<50	300
2345CM42	1,000	2	N	100	150	100	500	10	100	50
2346CM42	1,000	2	N	100	150	100	500	20	200	20
2347CM42	700	5	N	70	700	100	300	15	70	50
2348CM42	100	3	N	70	200	20	150	50	70	N
2349CM41	500	5	N	70	300	70	150	70	70	N
2350CM41	500	3	N	100	150	20	50	10	<50	30
2351CM41	1,500	7	N	100	700	150	150	10	<50	100
2352CM41	500	5	N	50	500	100	100	7	<50	70
2353CM41	1,500	15	N	50	100	100	200	20	70	30
2354CM41	1,000	15	N	100	150	150	200	20	70	50
2355CM41	700	3	N	100	300	100	100	N	50	50
2356CM41	300	3	N	100	500	100	150	N	<50	70
2375CM42	300	N	N	150	500	150	150	N	100	70
2376CM42	700	<2	N	100	500	150	150	N	150	70

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
2302CM41	500	N	500	700	N	100.0	N	1,000	N
2303CM41	500	N	500	700	N	100.0	300	500	N
2304CM44	30	N	<200	700	N	100.0	300	300	N
2305CM41	300	N	200	1,000	N	70.0	700	700	N
2306CM41	2,000	N	500	1,000	N	150.0	500	500	N
2307CM41	500	N	300	1,000	N	70.0	300	1,000	N
2309CM41	300	N	700	700	N	150.0	500	500	N
2311CM41	200	N	<200	1,500	N	100.0	500	500	N
2313CM41	200	N	1,000	700	N	150.0	500	1,000	N
2314CM41	500	N	300	700	N	70.0	300	700	N
2315CM41	500	50	<200	500	N	500.0	1,000	>2,000	N
2316CM41	700	70	200	500	N	200.0	1,000	500	150
2317CM41	300	N	700	700	N	150.0	300	1,000	N
2319CM41	300	N	700	700	N	200.0	N	2,000	N
2320CM41	300	N	300	1,000	N	200.0	N	500	N
2321CM41	200	N	500	1,000	N	70.0	N	700	N
2322CM41	150	N	<200	1,000	N	100.0	500	300	N
2323CM41	50	N	<200	700	N	70.0	300	300	N
2324CM41	50	N	200	300	N	100.0	N	300	N
2325CM41	100	N	200	700	N	70.0	300	200	N
2326CM41	100	N	500	500	N	100.0	N	300	N
2327CM41	300	N	<200	700	N	70.0	N	500	N
2329CM41	500	N	300	300	N	100.0	N	500	N
2330CM41	500	N	200	500	N	100.0	700	300	N
2332CM41	150	N	<200	1,000	N	70.0	N	700	N
2333CM41	300	N	200	700	N	70.0	300	500	N
2334CM41	700	N	200	300	N	150.0	500	200	N
2336CM41	300	N	300	700	N	70.0	N	500	N
2337CM41	30	N	300	500	N	70.0	N	100	N
2339CM41	<20	N	500	200	N	70.0	N	300	N
2340CM41	50	N	300	500	N	70.0	N	150	N
2345CM42	50	N	200	500	N	150.0	700	2,000	N
2346CM42	70	N	<200	500	N	200.0	700	2,000	N
2347CM42	100	N	200	500	N	100.0	N	1,000	N
2348CM42	100	N	N	1,000	N	150.0	N	1,500	N
2349CM41	150	N	<200	700	N	150.0	500	1,000	N
2350CM41	100	N	<200	700	N	50.0	N	150	N
2351CM41	150	N	300	1,000	N	70.0	N	100	N
2352CM41	50	N	300	500	N	100.0	N	300	N
2353CM41	200	N	200	500	2,000	100.0	500	700	N
2354CM41	300	N	200	500	200	100.0	500	500	N
2355CM41	70	N	200	700	N	70.0	N	300	N
2356CM41	50	N	<200	1,000	N	70.0	N	200	N
2375CM42	50	N	N	500	N	70.0	500	1,000	N
2376CM42	70	N	N	500	N	100.0	500	700	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2377CM42	38 28 2	112 31 43	50	1.50	1.5	>2.0	5,000	N	N	20
2378CM42	38 27 59	112 31 43	30	1.00	1.0	>2.0	3,000	N	N	20
2379CM42	38 28 41	112 30 9	30	1.00	.7	>2.0	>10,000	N	N	20
2380CM42	38 28 37	112 30 8	50	.50	.5	>2.0	>10,000	N	N	20
2383CM41	38 28 45	112 28 15	50	1.00	.3	>2.0	>10,000	N	N	<20
2384CM41	38 28 40	112 28 21	50	1.00	1.5	>2.0	>10,000	N	N	<20
2385CM41	38 28 1	112 28 11	50	.70	5.0	>2.0	>10,000	N	N	<20
2386CM41	38 27 58	112 28 11	30	2.00	1.5	>2.0	>10,000	N	N	<20
2387CM41	38 28 2	112 25 18	30	.70	1.0	>2.0	1,500	1.5	N	50
2388CM41	38 21 56	112 28 59	30	.70	1.0	1.0	1,500	N	N	20
2389CM41	38 23 27	112 25 29	50	.70	1.0	>2.0	5,000	N	N	150
2390CM41	38 22 54	112 26 39	30	.70	.7	>2.0	10,000	N	N	30
2391CM41	38 24 28	112 24 51	20	.50	.5	.5	>10,000	2.0	N	<20
2392CM41	38 26 29	112 26 36	20	3.00	2.0	1.5	>10,000	N	N	<20
2393CM41	38 27 5	112 22 40	50	1.00	1.5	>2.0	7,000	N	N	20
2394CM41	38 27 29	112 19 2	30	1.50	2.0	>2.0	3,000	N	N	70
2395CM41	38 28 31	112 17 45	30	.50	.7	>2.0	>10,000	N	N	20
2396CM42	38 29 29	112 35 55	30	1.50	2.0	>2.0	7,000	N	N	<20
2397CM42	38 29 32	112 35 52	50	1.50	2.0	>2.0	5,000	N	N	<20
2398CM42	38 29 36	112 35 56	20	5.00	3.0	>2.0	5,000	N	N	<20
2399CM41	38 18 18	112 6 44	20	3.00	3.0	>2.0	7,000	N	N	50
2400CM41	38 17 12	112 6 11	20	5.00	5.0	>2.0	5,000	N	N	<20
2401CM41	38 16 15	112 6 40	20	5.00	5.0	2.0	5,000	N	N	150
2404CM41	38 15 51	112 4 7	15	7.00	5.0	2.0	5,000	N	N	N
2405CM41	38 16 14	112 3 57	20	5.00	5.0	>2.0	3,000	N	N	<20
2422CM13	38 39 25	112 31 11	30	1.50	1.5	1.5	7,000	N	N	50
2423CM13	38 36 54	112 30 54	20	5.00	3.0	>2.0	10,000	N	N	<20
2424CM14	38 32 22	112 20 22	30	3.00	5.0	2.0	5,000	N	N	<20
2425CM14	38 39 32	112 2 16	10	7.00	5.0	1.0	5,000	N	N	<20
2426CM14	38 38 14	112 5 1	30	3.00	3.0	>2.0	>10,000	N	N	<20
2427CM14	38 35 33	112 3 21	50	1.50	3.0	>2.0	7,000	N	N	150
2428CM14	38 34 41	112 3 22	30	2.00	2.0	>2.0	5,000	N	N	70
2429CM14	38 34 48	112 3 3	30	2.00	1.5	2.0	1,500	N	N	100
2430CM14	38 32 43	112 2 0	15	7.00	5.0	>2.0	5,000	N	N	100
2431CM14	38 30 52	112 6 20	30	2.00	2.0	>2.0	5,000	N	N	<20
2432CM14	38 30 28	112 4 37	15	7.00	5.0	1.5	3,000	N	N	<20
2433CM14	38 32 58	112 6 44	50	.30	1.0	>2.0	1,500	N	N	20
2434CM41	38 27 11	112 27 21	30	.70	1.0	1.5	>10,000	N	N	20
2435CM41	38 27 1	112 27 20	30	.70	1.0	>2.0	>10,000	N	N	100
2436CM41	38 24 27	112 21 6	30	.50	1.0	>2.0	1,000	1.0	N	<20
2437CM41	38 23 41	112 22 1	50	.50	1.0	>2.0	1,500	N	N	<20
2438CM41	38 21 41	112 21 6	50	1.00	1.5	>2.0	5,000	N	N	<20
2439CM41	38 19 28	112 19 32	20	2.00	3.0	>2.0	3,000	N	N	<20
2440CM41	38 19 57	112 17 40	50	1.00	1.0	>2.0	2,000	N	N	<20
2441CM41	38 19 57	112 15 2	30	.50	1.0	>2.0	2,000	N	N	20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2377CM42	300	<2	N	100	300	100	150	N	70	50
2378CM42	1,000	2	N	70	300	150	200	N	50	20
2379CM42	100	3	N	15	100	50	500	70	>5,000	N
2380CM42	200	3	N	20	150	20	150	20	>5,000	N
2383CM41	300	5	N	30	200	50	300	15	1,500	50
2384CM41	200	3	N	30	150	30	200	20	1,500	20
2385CM41	700	10	N	30	500	20	300	30	500	70
2386CM41	1,500	50	N	50	300	50	500	20	500	50
2387CM41	500	7	N	50	150	70	300	10	70	N
2388CM41	2,000	15	N	15	100	100	300	100	50	30
2389CM41	700	7	N	100	500	50	200	N	<50	30
2390CM41	700	15	N	70	200	150	300	50	50	50
2391CM41	1,000	30	N	<10	20	30	300	150	200	N
2392CM41	1,000	20	N	30	500	30	1,000	70	200	70
2393CM41	500	10	N	50	500	50	300	10	50	50
2394CM41	300	2	N	70	300	70	200	N	<50	70
2395CM41	500	7	N	30	100	20	500	10	500	N
2396CM42	700	<2	N	100	500	150	500	7	200	100
2397CM42	700	N	N	150	500	150	150	N	70	70
2398CM42	2,000	<2	N	100	300	70	200	N	<50	100
2399CM41	1,500	5	N	70	300	50	200	N	<50	30
2400CM41	300	<2	N	100	500	70	500	7	<50	150
2401CM41	1,000	<2	N	100	300	70	100	N	N	100
2404CM41	500	<2	N	70	700	30	100	N	50	300
2405CM41	300	<2	N	70	500	30	200	7	<50	100
2422CM13	1,500	5	N	70	200	150	500	15	50	150
2423CM13	1,000	<2	N	100	700	70	300	N	<50	200
2424CM14	1,000	<2	N	100	500	100	200	15	<50	70
2425CM14	150	N	N	70	150	50	N	N	N	70
2426CM14	3,000	<2	N	70	200	100	150	N	N	50
2427CM14	1,000	5	N	70	200	150	100	N	N	30
2428CM14	1,000	5	N	100	500	150	150	20	70	70
2429CM14	1,500	3	N	50	150	200	100	N	<50	20
2430CM14	700	2	N	70	300	50	100	15	<50	70
2431CM14	300	2	N	70	700	100	100	7	50	100
2432CM14	200	<2	N	50	700	30	100	7	<50	100
2433CM14	200	<2	N	100	500	100	200	7	50	70
2434CM41	1,500	50	N	30	70	50	300	150	200	N
2435CM41	1,000	50	N	10	50	20	200	100	1,000	N
2436CM41	300	<2	N	100	1,000	100	150	N	<50	100
2437CM41	200	<2	N	70	700	50	150	N	<50	70
2438CM41	700	<2	N	100	700	50	300	N	50	100
2439CM41	500	<2	N	100	300	100	150	N	<50	70
2440CM41	500	<2	N	100	500	70	300	N	N	70
2441CM41	300	<2	N	50	500	70	500	N	70	30

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
2377CM42	100	N	N	700	N	100.0	500	1,000	N
2378CM42	100	N	<200	700	N	70.0	300	700	N
2379CM42	100	300	N	150	N	150.0	2,000	700	N
2380CM42	150	300	N	200	N	150.0	1,500	700	N
2383CM41	100	150	N	300	N	200.0	2,000	2,000	N
2384CM41	150	300	<200	300	N	200.0	1,000	2,000	N
2385CM41	2,000	150	N	500	N	500.0	1,500	>2,000	N
2386CM41	1,500	50	700	300	N	300.0	1,000	2,000	N
2387CM41	150	N	300	700	N	70.0	300	300	N
2388CM41	300	N	700	300	N	150.0	500	500	200
2389CM41	300	N	<200	1,500	N	70.0	N	200	N
2390CM41	500	N	200	700	N	150.0	700	200	N
2391CM41	3,000	N	700	100	N	200.0	700	500	N
2392CM41	1,500	N	200	300	N	200.0	1,000	700	N
2393CM41	500	N	<200	700	N	70.0	N	500	N
2394CM41	150	N	<200	700	N	70.0	N	300	N
2395CM41	500	70	N	300	N	200.0	1,500	700	N
2396CM42	100	N	N	500	N	150.0	500	700	N
2397CM42	100	N	200	700	N	70.0	700	500	N
2398CM42	70	N	<200	500	N	100.0	300	500	N
2399CM41	150	N	500	700	N	70.0	N	300	N
2400CM41	30	N	200	700	N	70.0	300	700	N
2401CM41	30	N	300	500	N	100.0	N	200	N
2404CM41	20	N	500	500	N	70.0	N	300	N
2405CM41	30	N	200	700	N	100.0	500	200	N
2422CM13	300	N	N	500	N	100.0	N	300	N
2423CM13	70	N	<200	700	N	100.0	300	700	N
2424CM14	100	N	<200	500	N	150.0	N	500	N
2425CM14	30	N	N	300	N	70.0	N	100	N
2426CM14	150	N	700	1,000	N	150.0	500	100	N
2427CM14	100	N	500	1,000	N	70.0	N	70	N
2428CM14	100	N	200	700	N	100.0	700	300	N
2429CM14	50	N	1,500	500	N	70.0	N	700	N
2430CM14	50	N	200	500	N	100.0	N	300	N
2431CM14	100	N	<200	1,000	N	100.0	500	700	N
2432CM14	30	N	200	500	N	100.0	N	500	N
2433CM14	100	N	N	700	N	50.0	N	200	N
2434CM41	2,000	200	300	200	N	200.0	1,500	500	N
2435CM41	1,000	150	300	100	N	700.0	2,000	2,000	N
2436CM41	200	N	N	1,000	N	50.0	500	200	N
2437CM41	200	N	N	1,000	N	70.0	500	700	N
2438CM41	150	N	200	700	N	100.0	500	500	N
2439CM41	150	N	200	500	N	70.0	N	500	N
2440CM41	200	N	200	1,000	N	100.0	500	700	N
2441CM41	200	N	<200	700	N	100.0	N	700	N

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	AS	B
2442CM41	38 18 53	112 16 6	30	1.00	1.5	>2.0	2,000	N	N	<20
2443CM41	38 16 51	112 19 12	7	7.00	5.0	1.0	5,000	N	N	<20
2444CM41	38 17 58	112 20 19	20	7.00	7.0	1.5	5,000	N	N	N
2445CM41	38 16 24	112 23 42	10	7.00	5.0	1.5	3,000	N	N	<20
2446CM14	38 32 55	112 15 53	20	3.00	3.0	>2.0	>10,000	N	N	<20
2469CM41	38 15 32	112 18 21	10	10.00	7.0	1.0	3,000	N	N	<20
2601CM14	38 40 42	112 16 15	15	5.00	3.0	2.0	7,000	N	N	<20
2631CM14	38 39 21	112 18 21	20	5.00	3.0	>2.0	3,000	N	N	<20
2633CM14	38 40 1	112 19 30	30	5.00	3.0	>2.0	5,000	N	N	<20
2634CM14	38 40 17	112 22 10	10	7.00	5.0	2.0	5,000	N	N	<20
2636CM14	38 37 38	112 20 15	30	3.00	3.0	>2.0	5,000	N	N	<20
2638CM14	38 38 57	112 21 38	20	5.00	3.0	>2.0	5,000	N	N	<20
2639CM14	38 35 47	112 22 47	20	5.00	2.0	>2.0	5,000	N	N	<20
2831CM41	38 28 56	112 23 27	20	.50	1.0	>2.0	7,000	5.0	N	20
2832CM41	38 29 12	112 23 20	30	1.50	1.5	.7	>10,000	N	700	50
2833CM41	38 28 37	112 24 6	30	.30	1.5	>2.0	10,000	N	N	30
2834CM41	38 28 34	112 24 9	30	.50	2.0	>2.0	3,000	N	N	20
2837CM41	38 28 57	112 25 43	30	.50	1.5	2.0	1,500	1.0	N	20
2838CM41	38 29 0	112 25 44	15	.70	3.0	1.5	2,000	3.0	N	30
2839CM41	38 29 5	112 25 54	50	1.50	2.0	>2.0	2,000	3.0	N	<20
2841CM41	38 29 14	112 8 18	20	3.00	2.0	>2.0	3,000	N	N	200
2843CM41	38 27 22	112 8 35	50	1.50	1.0	>2.0	3,000	N	N	200
2844CM41	38 28 55	112 7 20	30	.70	1.0	>2.0	2,000	N	N	150
2845CM41	38 26 30	112 8 32	20	1.50	2.0	2.0	3,000	N	N	150
2846CM42	38 26 4	112 7 24	30	.50	1.0	>2.0	5,000	N	N	20
2847CM41	38 24 58	112 8 20	10	10.00	10.0	1.0	5,000	N	N	70
2849CM41	38 23 15	112 10 55	50	2.00	2.0	>2.0	7,000	N	N	<20
2851CM41	38 21 30	112 2 31	30	7.00	7.0	>2.0	5,000	N	N	<20
2853CM41	38 20 10	112 0 28	20	5.00	3.0	>2.0	5,000	N	N	<20
2854CM41	38 19 25	112 0 14	20	10.00	7.0	1.5	5,000	N	N	<20
2855CM41	38 18 34	112 0 40	10	5.00	3.0	1.0	5,000	N	N	<20

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	BA	BE	BI	CO	CR	CU	LA	MO	NB	NI
2442CM41	500	<2	N	100	500	50	200	N	50	70
2443CM41	500	<2	N	70	1,000	70	50	N	N	300
2444CM41	1,500	<2	N	100	1,000	70	100	N	N	300
2445CM41	100	N	N	70	700	30	50	N	N	100
2446CM14	3,000	<2	N	150	150	100	150	N	<50	20
2469CM41	150	N	N	100	500	30	100	N	N	100
2601CM14	1,000	<2	N	100	300	70	150	N	<50	100
2631CM14	300	<2	N	100	200	30	150	N	50	70
2633CM14	300	<2	N	100	500	50	100	N	<50	70
2634CM14	300	<2	N	50	100	30	50	N	50	50
2636CM14	500	N	N	150	500	70	100	N	<50	100
2638CM14	200	2	N	70	150	50	100	7	70	30
2639CM14	200	<2	N	70	300	50	300	N	<50	70
2831CM41	500	20	N	70	200	150	300	15	70	N
2832CM41	700	30	N	20	150	50	150	150	100	50
2833CM41	300	30	N	70	150	150	500	30	70	N
2834CM41	200	10	N	30	150	50	500	15	100	N
2837CM41	700	10	N	70	150	150	200	20	<50	100
2838CM41	300	10	N	70	200	100	200	15	50	50
2839CM41	500	10	N	100	300	70	300	15	50	50
2841CM41	1,500	2	N	50	500	50	100	10	50	30
2843CM41	500	3	N	70	200	30	200	30	70	N
2844CM41	1,500	7	N	70	150	150	200	15	50	20
2845CM41	1,500	7	N	70	200	150	300	20	50	70
2846CM42	700	5	N	100	500	150	150	7	<50	30
2847CM41	500	<2	N	50	200	50	50	N	N	50
2849CM41	1,500	N	N	150	1,000	200	100	N	<50	100
2851CM41	500	<2	N	70	300	100	50	N	N	200
2853CM41	700	<2	N	70	150	100	70	N	<50	50
2854CM41	300	N	N	100	700	50	150	N	<50	50
2855CM41	300	<2	N	100	500	70	150	N	N	100

Table 2.--Six-step semiquantitative spectrographic analyses of the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	PB	SN	SR	V	W	Y	Zn	ZR	TH
2442CM41	100	N	200	500	N	70.0	500	500	N
2443CM41	30	N	500	300	N	70.0	N	100	N
2444CM41	50	N	700	700	N	70.0	N	200	N
2445CM41	20	N	200	700	N	50.0	N	70	N
2446CM14	150	N	300	700	N	100.0	N	200	N
2469CM41	20	N	200	500	N	70.0	N	200	N
2601CM14	70	N	200	500	N	100.0	N	200	N
2631CM14	30	N	<200	500	N	100.0	500	200	N
2633CM14	50	N	<200	700	N	100.0	500	500	N
2634CM14	<20	N	<200	300	N	100.0	N	300	N
2636CM14	30	N	<200	700	N	70.0	500	1,000	N
2638CM14	20	300	N	500	N	70.0	700	300	N
2639CM14	30	N	<200	500	N	100.0	300	700	N
2831CM41	700	20	200	700	N	100.0	N	700	N
2832CM41	2,000	N	300	300	N	70.0	1,000	300	N
2833CM41	500	N	300	500	N	100.0	300	500	N
2834CM41	200	70	500	700	N	100.0	300	1,000	N
2837CM41	150	N	500	300	N	70.0	700	200	N
2838CM41	150	N	1,500	500	N	100.0	N	300	N
2839CM41	200	N	500	1,000	N	70.0	500	300	N
2841CM41	70	N	500	700	N	70.0	500	700	N
2843CM41	100	N	<200	1,000	N	70.0	N	500	N
2844CM41	150	N	500	500	N	70.0	500	200	N
2845CM41	200	N	700	300	N	100.0	N	300	N
2846CM42	100	N	200	1,500	N	50.0	300	200	N
2847CM41	50	N	200	300	N	150.0	N	500	150
2849CM41	100	N	N	1,000	N	70.0	700	300	N
2851CM41	20	N	500	700	N	100.0	N	1,000	N
2853CM41	30	N	500	500	N	70.0	500	300	N
2854CM41	20	N	300	500	N	70.0	N	50	N
2855CM41	20	N	500	500	N	70.0	N	150	N

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1053CM14	38 40 53	112 2 20	3.0	1.00	1.50	.5000	1,000	N	20	700	2.0	20	100	20
1055CM14	38 36 55	112 6 12	3.0	1.00	2.00	.5000	1,500	N	20	700	2.0	20	30	20
1056CM14	38 36 46	112 3 36	3.0	1.00	1.50	.3000	1,000	N	50	700	3.0	15	10	50
1057CM14	38 34 13	112 5 10	3.0	.70	1.00	.7000	700	N	100	700	3.0	15	100	50
1058CM14	38 34 39	112 4 59	2.0	.50	.70	.5000	500	N	200	2,000	5.0	10	30	50
1059CM14	38 36 13	112 5 42	3.0	1.00	2.00	.3000	1,500	N	30	700	3.0	15	10	70
1061CM14	38 38 21	112 3 5	2.0	.70	1.00	.5000	700	N	50	500	3.0	10	30	50
1062CM14	38 39 30	112 5 57	5.0	1.50	2.00	.5000	1,500	N	50	700	2.0	20	50	70
1066CM14	38 30 36	112 1 58	2.0	1.00	1.00	.7000	1,500	.5	70	1,000	10.0	10	50	50
1068CM14	38 30 21	112 0 15	2.0	.70	.70	.5000	700	N	100	700	10.0	7	50	20
1069CM14	38 33 11	112 0 22	5.0	1.00	1.50	.7000	1,000	N	30	700	3.0	20	150	50
1405CM13	38 40 39	112 34 37	1.5	.70	1.50	.3000	700	N	150	500	2.0	7	50	10
1406CM13	38 40 24	112 31 17	2.0	1.00	2.00	.3000	1,500	N	150	500	2.0	7	50	20
1407CM13	38 40 37	112 33 2	2.0	.70	1.50	.3000	700	<.5	150	500	3.0	10	70	15
1408CM42	38 16 12	112 32 55	7.0	3.00	5.00	.5000	1,000	N	30	700	1.0	30	150	70
1409CM42	38 17 51	112 32 40	2.0	.50	1.00	.5000	1,000	N	100	1,000	3.0	10	100	20
1410CM42	38 21 51	112 33 55	5.0	1.00	1.00	.7000	1,000	N	50	700	5.0	20	100	50
1411CM42	38 21 41	112 33 56	3.0	.70	.70	.5000	1,000	N	70	700	5.0	20	100	50
1412CM42	38 19 31	112 32 32	3.0	1.00	1.50	.5000	1,000	N	70	700	5.0	15	150	30
1414CM42	38 21 45	112 31 19	2.0	.50	.70	.5000	1,000	<.5	100	700	7.0	10	30	20
1415CM42	38 21 12	112 32 26	1.5	.50	.70	.5000	1,500	N	100	700	7.0	5	50	20
1416CM42	38 22 51	112 31 43	3.0	.70	.70	.5000	1,000	N	100	500	5.0	15	50	30
1418CM42	38 22 49	112 31 49	3.0	.70	.70	.7000	1,000	N	100	500	7.0	20	70	50
1419CM42	38 23 34	112 30 40	1.0	.20	.50	.1500	1,000	N	50	200	10.0	<5	15	7
1420CM42	38 22 34	112 33 48	5.0	1.00	2.00	.7000	1,000	N	50	700	3.0	20	70	70
1422CM42	38 24 15	112 33 29	5.0	1.00	.70	.5000	1,500	N	100	700	7.0	15	50	30
1424CM42	38 25 46	112 32 31	5.0	1.00	.70	.7000	1,000	N	50	700	7.0	15	150	50
1425CM42	38 25 26	112 31 24	1.5	.20	.30	.2000	2,000	N	70	200	20.0	<5	10	7
1426CM42	38 25 56	112 30 57	1.5	.30	.70	.2000	1,500	N	70	200	10.0	<5	10	10
1427CM42	38 27 9	112 30 43	1.5	.30	1.00	.2000	700	.5	100	200	20.0	5	30	15
1428CM42	38 25 55	112 33 40	7.0	.70	.70	1.0000	1,500	N	150	1,000	3.0	20	100	70
1429CM42	38 26 5	112 34 5	5.0	1.00	.70	.5000	1,000	N	100	700	5.0	15	70	50
1430CM42	38 25 32	112 35 5	10.0	1.00	.50	.7000	2,000	N	70	700	5.0	20	70	50
1431CM42	38 27 5	112 34 16	7.0	1.00	1.00	.7000	1,000	N	30	700	1.5	30	200	50
1433CM42	38 28 16	112 34 26	3.0	.70	1.50	.7000	1,000	N	30	700	2.0	20	150	30
1435CM13	38 30 25	112 35 43	3.0	1.00	1.50	.7000	1,000	N	70	700	3.0	20	70	20
1436CM13	38 30 14	112 34 47	3.0	1.00	1.50	.7000	1,500	N	50	700	2.0	20	100	20
1437CM13	38 30 2	112 33 1	5.0	1.00	2.00	.7000	700	N	50	700	1.0	20	100	30
1439CM13	38 33 0	112 33 54	3.0	1.00	1.50	1.0000	1,000	N	50	700	2.0	15	70	20
1441CM13	38 31 7	112 34 41	5.0	1.00	1.50	.7000	1,000	N	30	700	1.5	15	100	20
1444CM13	38 34 29	112 34 8	20.0	.50	1.50	1.4286	1,500	N	20	1,500	1.0	30	150	20
1445CM13	38 34 43	112 34 3	5.0	1.00	1.50	.7000	1,500	N	70	700	2.0	15	70	20
1447CM13	38 34 23	112 32 47	3.0	.70	1.50	.7000	1,000	N	70	700	3.0	10	50	20
1448CM13	38 35 43	112 31 32	3.0	.70	1.00	.7000	1,000	N	50	700	2.0	10	50	15
1449CM41	38 18 48	112 24 44	1.5	.20	.30	.2000	500	N	15	150	3.0	5	10	10

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	LA	MO	NB	NI	PB	SC	SN	CR	V	Y	ZN	ZR
1053CM14	50	N	N	30	20	15	N	700	200	30	N	200
1055CM14	70	N	N	15	20	15	N	700	200	30	N	150
1056CM14	70	N	<20	10	30	15	N	700	200	30	N	150
1057CM14	100	<5	20	30	50	15	N	500	200	30	N	500
1058CM14	150	5	20	20	50	15	N	500	150	30	N	500
1059CM14	70	N	<20	10	20	15	N	500	200	30	N	150
1061CM14	50	N	<20	20	30	15	N	500	100	30	N	150
1062CM14	70	N	<20	30	30	20	N	500	200	30	N	150
1066CM14	70	N	20	20	150	10	N	700	100	70	N	300
1068CM14	70	N	20	10	70	10	N	300	100	50	N	500
1069CM14	70	N	<20	50	50	15	N	500	200	50	N	150
1405CM13	20	N	N	10	20	10	N	200	70	30	N	200
1406CM13	30	N	N	20	20	10	N	200	150	30	N	150
1407CM13	20	N	<20	15	50	10	N	200	100	50	N	500
1408CM42	50	N	N	30	50	20	N	700	200	50	N	150
1409CM42	50	N	20	30	30	15	N	500	100	50	N	500
1410CM42	70	N	20	50	50	15	N	300	200	30	N	300
1411CM42	70	N	20	50	50	15	N	200	150	50	N	300
1412CM42	70	5	30	50	50	10	N	500	150	50	N	300
1414CM42	50	7	30	15	50	10	N	200	100	50	N	300
1415CM42	50	N	30	7	100	7	N	200	100	50	N	300
1416CM42	100	N	50	20	50	15	N	150	150	50	N	200
1417CM42	70	N	30	30	50	15	N	500	200	50	N	200
1419CM42	100	N	50	<5	50	5	N	<100	20	70	N	200
1420CM42	70	N	20	50	50	15	N	500	200	50	N	200
1422CM42	50	5	30	30	50	15	N	200	200	30	N	500
1424CM42	50	N	30	100	20	15	N	200	200	50	N	500
1425CM42	50	N	<20	<5	70	5	N	100	30	50	N	500
1426CM42	50	N	70	5	100	<5	N	100	30	50	N	300
1427CM42	70	N	50	10	70	5	N	100	70	100	N	200
1428CM42	100	N	20	30	50	15	N	500	200	30	N	1,000
1429CM42	50	5	20	30	50	15	N	500	200	30	N	300
1430CM42	50	5	20	30	30	15	N	700	200	30	N	500
1431CM42	50	N	<20	50	50	15	N	500	300	30	N	300
1433CM42	50	N	<20	30	30	15	N	500	300	30	N	500
1435CM13	100	N	<20	30	30	15	N	700	200	50	N	300
1436CM13	70	N	<20	30	50	15	N	700	300	30	N	300
1437CM13	70	N	<20	20	50	15	N	700	300	30	N	500
1439CM13	70	N	<20	30	50	15	N	500	300	30	N	300
1441CM13	70	N	<20	20	30	15	N	700	150	50	N	300
1444CM13	100	N	<20	30	50	15	N	700	500	30	200	300
1445CM13	70	N	<20	20	50	15	N	500	150	50	N	200
1447CM13	50	N	20	15	70	15	N	500	100	30	N	200
1448CM13	50	N	20	15	50	15	N	500	150	30	N	200
1449CM41	30	N	N	7	30	5	N	150	50	30	N	200

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1450CM41	38 19 18	112 21 41	2.0	.70	1.00	.7000	1,000	N	30	500	1.5	10	30	20
1452CM41	38 19 20	112 21 6	7.0	.70	1.50	.7000	1,000	N	20	500	1.5	30	100	15
1453CM41	38 16 2	112 29 17	3.0	1.50	1.50	.5000	1,000	N	20	700	5.0	20	70	50
1460CM13	38 39 38	112 33 17	1.5	.70	1.50	.3000	700	<.5	100	300	1.5	7	50	15
1461CM13	38 38 26	112 33 37	2.0	1.00	1.00	.5000	700	<.5	70	500	2.0	10	50	20
1462CM13	38 38 40	112 36 0	5.0	2.00	2.00	1.0000	1,500	N	50	1,000	2.0	30	200	30
1464CM13	38 37 58	112 35 23	3.0	1.00	2.00	.7000	1,000	N	100	700	1.5	20	100	20
1465CM13	38 36 20	112 33 53	5.0	1.00	1.00	.7000	1,500	N	70	1,000	2.0	20	150	30
1466CM13	38 35 49	112 33 16	3.0	.70	1.00	.7000	1,000	N	100	1,000	2.0	10	70	15
1467CM13	38 37 21	112 32 13	5.0	2.00	2.00	.5000	1,000	<.5	70	700	2.0	10	150	20
1468CM41	38 15 52	112 27 38	5.0	.70	1.00	1.0000	1,500	N	70	1,000	5.0	20	70	50
1469CM41	38 17 32	112 26 55	3.0	1.00	1.00	1.0000	1,000	N	70	700	5.0	15	70	15
1470CM41	38 18 1	112 26 57	1.0	.30	.50	.3000	700	N	50	500	10.0	5	15	10
1471CM41	38 18 7	112 28 5	3.0	.70	1.00	.5000	1,000	N	70	1,000	7.0	15	100	30
1473CM41	38 17 4	112 29 8	5.0	.70	1.00	.7000	1,000	<.5	70	700	5.0	20	70	50
1474CM41	38 17 16	112 25 15	3.0	.70	1.00	.7000	1,500	N	70	1,000	5.0	20	70	30
1476CM41	38 16 22	112 25 43	5.0	1.00	1.50	1.0000	1,500	N	50	1,000	1.5	30	100	50
1477CM41	38 18 9	112 23 8	1.5	.20	.70	.1500	700	N	70	300	10.0	<5	10	5
1479CM41	38 17 26	112 23 52	3.0	1.50	1.50	.7000	1,000	N	70	1,000	2.0	20	100	50
1480CM41	38 17 33	112 24 0	2.0	.50	1.00	.3000	1,000	<.5	70	700	7.0	7	30	20
1482CM41	38 19 42	112 26 1	2.0	.30	.50	.5000	700	<.5	50	500	7.0	5	30	15
1505CM42	38 18 59	112 32 58	3.0	.70	1.00	.7000	1,500	N	150	700	3.0	15	100	50
1506CM42	38 19 25	112 32 35	5.0	1.00	1.50	.7000	1,500	N	70	700	5.0	20	300	50
1508CM42	38 20 14	112 32 42	5.0	1.50	2.00	1.0000	1,500	N	50	1,000	5.0	30	200	70
1509CM42	38 21 3	112 33 48	1.5	.20	.30	.2000	1,000	N	50	200	7.0	5	20	10
1510CM42	38 21 18	112 34 1	7.0	1.50	1.50	1.0000	1,500	N	70	1,000	5.0	20	150	70
1511CM42	38 22 19	112 34 6	7.0	1.50	1.50	1.0000	1,000	N	50	700	3.0	20	150	70
1512CM42	38 23 9	112 34 0	7.0	.70	.70	.7000	1,500	N	50	700	5.0	15	70	50
1513CM42	38 23 46	112 34 7	3.0	.50	.70	.7000	1,000	N	100	700	3.0	10	50	30
1514CM42	38 24 11	112 33 26	3.0	.30	.30	.5000	1,500	N	100	500	10.0	15	70	30
1515CM42	38 24 18	112 34 10	7.0	1.00	1.00	1.0000	1,000	N	70	1,000	2.0	15	100	50
1516CM42	38 20 51	112 32 45	5.0	.70	1.00	.7000	1,000	N	100	700	7.0	15	70	50
1517CM42	38 21 2	112 32 35	3.0	.50	.30	.7000	1,000	N	70	700	7.0	7	20	15
1518CM42	38 21 42	112 32 3	3.0	.70	.70	.7000	1,500	N	70	700	7.0	20	70	50
1519CM42	38 22 30	112 31 20	1.0	.30	.70	.2000	1,500	N	70	300	20.0	5	30	10
1520CM42	38 21 36	112 31 43	5.0	.70	1.00	.7000	1,000	N	70	700	7.0	15	70	50
1521CM42	38 22 13	112 30 55	3.0	.70	.50	.7000	1,000	<.5	70	700	7.0	20	50	50
1522CM42	38 22 28	112 30 36	2.0	.50	.50	.5000	700	N	70	700	5.0	10	30	30
1523CM41	38 22 54	112 29 37	2.0	.50	.30	.7000	700	<.5	50	300	10.0	7	30	20
1524CM41	38 22 52	112 29 38	1.5	.30	.30	.7000	200	<.5	100	500	5.0	<5	15	20
1525CM42	38 22 45	112 30 19	2.0	.30	.50	.5000	700	<.5	100	700	5.0	15	30	30
1526CM42	38 23 0	112 30 58	1.0	.20	.50	.2000	1,500	N	50	300	10.0	<5	20	10
1527CM42	38 23 7	112 31 6	1.0	.20	.70	.2000	2,000	N	50	300	10.0	<5	10	15
1528CM42	38 23 44	112 30 15	.7	.20	.30	.2000	1,500	<.5	50	200	10.0	<5	15	10
1529CM41	38 23 43	112 29 39	.7	.20	.30	.1500	2,000	<.5	20	150	7.0	N	10	10

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
1450CM41	20	N	N	10	20	15	N	500	200	20	N	150
1452CM41	50	N	<20	20	50	15	N	500	200	30	N	300
1453CM41	100	N	20	20	50	15	N	500	150	50	N	200
1460CM13	20	N	N	20	20	5	N	150	70	30	N	200
1461CM13	30	N	<20	20	30	15	N	200	100	30	N	200
1462CM13	70	N	<20	50	30	20	N	700	300	50	N	300
1464CM13	30	N	<20	20	20	15	N	500	200	30	N	300
1465CM13	100	N	<20	50	50	15	N	500	200	50	N	300
1466CM13	70	N	20	15	70	15	N	500	150	50	N	300
1467CM13	50	N	<20	30	30	10	N	300	150	50	N	300
1468CM41	100	N	20	30	50	15	N	500	200	50	N	500
1469CM41	100	N	30	20	50	15	N	500	150	50	N	700
1470CM41	50	N	30	<5	30	7	N	300	30	50	N	1,000
1471CM41	100	N	20	30	50	15	N	500	150	50	N	500
1473CM41	100	N	20	30	50	15	N	500	200	50	N	500
1474CM41	100	N	20	30	70	15	N	500	200	50	N	300
1476CM41	100	N	<20	30	50	20	N	700	200	50	N	150
1477CM41	50	N	50	<5	50	5	N	150	30	50	N	150
1479CM41	70	N	<20	30	70	15	N	500	200	50	N	200
1480CM41	50	5	50	15	70	10	N	500	100	50	N	150
1482CM41	50	N	30	7	50	7	N	300	100	50	N	200
1505CM42	70	N	20	50	70	15	N	300	200	50	N	500
1506CM42	100	N	20	70	70	15	N	500	200	70	N	1,000
1508CM42	70	N	<20	100	50	20	N	500	300	50	N	500
1509CM42	30	5	50	7	30	5	N	<100	100	30	N	300
1510CM42	50	N	20	30	50	15	N	300	200	30	N	500
1511CM42	70	N	<20	50	50	15	N	500	200	30	N	300
1512CM42	50	N	30	20	50	10	N	200	150	30	N	300
1513CM42	50	5	20	15	50	10	N	200	150	30	N	300
1514CM42	50	<5	50	50	50	5	N	150	100	50	N	500
1515CM42	70	10	30	30	50	15	N	500	300	50	N	700
1516CM42	70	5	20	30	50	10	N	300	150	30	N	500
1517CM42	50	7	30	5	50	5	N	<100	150	30	N	700
1518CM42	70	N	20	50	50	15	N	500	150	50	N	200
1519CM42	50	N	50	10	100	5	N	300	50	30	N	200
1520CM42	50	5	20	20	20	10	N	200	200	30	N	500
1521CM42	70	5	30	50	50	15	N	150	150	50	N	500
1522CM42	100	10	30	20	50	10	N	500	150	30	N	200
1523CM41	50	N	30	15	30	10	N	200	150	50	N	200
1524CM41	70	7	50	5	100	10	N	200	100	30	N	700
1525CM42	70	5	30	20	30	10	N	200	100	50	N	500
1526CM42	50	N	50	7	50	7	N	100	30	50	N	200
1527CM42	30	N	30	5	70	5	N	100	30	30	N	150
1528CM42	100	N	50	7	70	7	N	150	30	70	N	200
1529CM41	50	5	50	5	100	7	N	100	20	50	300	150

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1531CM42	38 23 27	112 30 33	1.5	.30	.70	.2000	1,000	<.5	70	300	7.0	5	20	10
1532CM41	38 24 1	112 29 14	1.0	.20	.50	.1500	1,000	<.5	30	150	15.0	<5	15	10
1533CM41	38 23 56	112 29 13	1.0	.15	.15	.1500	1,000	N	30	70	30.0	<5	<10	7
1534CM41	38 23 59	112 29 3	1.5	.10	.07	.1500	>5	N	30	150	30.0	5	<10	5
1535CM41	38 24 56	112 29 41	.7	.15	.20	.1500	700	N	30	100	7.0	<5	10	<5
1536CM41	38 25 1	112 29 28	1.0	.15	.20	.1000	>5	N	30	100	30.0	<5	<10	<5
1537CM41	38 25 13	112 29 10	1.0	.10	.15	.1000	1,500	N	30	70	15.0	<5	<10	<5
1539CM41	38 25 20	112 28 50	.7	.15	.20	.2000	1,000	N	30	150	10.0	<5	10	5
1540CM41	38 25 40	112 29 3	1.0	.20	.20	.1500	1,000	N	50	150	10.0	<5	10	<5
1541CM41	38 25 34	112 29 4	.7	.15	.15	.1500	700	N	30	70	10.0	N	<10	N
1543CM41	38 25 9	112 29 57	1.5	.30	.50	.3000	1,500	N	70	300	7.0	5	30	10
1544CM41	38 25 17	112 28 12	1.0	.30	.70	.3000	2,000	<.5	70	200	20.0	<5	20	10
1545CM41	38 25 21	112 28 12	1.5	.15	.30	.1000	3,000	N	50	150	10.0	<5	15	7
1547CM41	38 25 49	112 28 37	1.0	.30	.50	.3000	1,500	N	70	300	10.0	5	15	10
1548CM41	38 25 52	112 28 21	1.5	.50	.70	.3000	1,500	N	70	500	7.0	5	50	10
1550CM41	38 25 48	112 28 17	.7	.10	.15	.0700	700	N	50	70	20.0	N	<10	<5
1551CM41	38 26 18	112 28 42	1.0	.20	.30	.2000	500	N	50	200	10.0	<5	15	5
1552CM41	38 26 36	112 29 15	.7	.20	.10	.1000	500	<.5	30	50	10.0	N	N	N
1553CM42	38 24 57	112 30 3	1.0	.30	.50	.3000	1,500	<.5	50	200	20.0	<5	20	10
1554CM42	38 25 6	112 30 21	1.0	.30	.50	.3000	1,500	<.5	50	200	30.0	5	15	10
1555CM42	38 25 24	112 30 23	1.0	.30	.50	.3000	1,000	<.5	50	200	10.0	N	15	7
1556CM42	38 25 11	112 30 31	1.0	.20	.20	.1500	1,000	N	20	70	15.0	N	<10	N
1557CM42	38 25 42	112 30 55	.7	.15	.30	.1500	500	<.5	30	100	15.0	N	10	5
1558CM42	38 27 10	112 30 35	2.0	.30	.30	.5000	1,000	N	50	150	30.0	<5	15	5
1559CM42	38 26 55	112 30 42	1.5	.15	.20	.2000	1,000	N	50	150	10.0	<5	15	<5
1561CM42	38 26 34	112 31 22	2.0	.70	.70	.5000	1,000	N	50	500	7.0	10	70	20
1562CM42	38 25 38	112 32 34	2.0	.50	.50	.5000	1,000	N	70	500	10.0	10	30	20
1563CM42	38 26 0	112 33 26	3.0	.70	.70	.7000	1,000	<.5	50	700	5.0	15	50	50
1564CM42	38 25 11	112 34 52	5.0	.70	.50	.7000	1,000	<.5	70	700	3.0	15	70	30
1565CM42	38 24 42	112 34 51	5.0	.50	.70	.7000	1,000	N	70	700	2.0	10	70	20
1566CM42	38 27 4	112 34 42	5.0	.70	.70	1.0000	1,000	N	30	700	3.0	20	100	30
1567CM42	38 27 7	112 34 18	5.0	1.00	1.50	1.0000	1,000	N	20	700	2.0	30	150	30
1568CM42	38 26 54	112 34 1	3.0	1.00	.70	.5000	1,500	<.5	50	1,000	2.0	20	70	30
1569CM42	38 26 59	112 33 35	5.0	1.00	.70	.7000	1,000	N	70	1,000	1.0	20	100	50
1570CM42	38 27 7	112 33 9	3.0	.70	.70	.7000	1,000	N	50	1,000	1.5	20	70	30
1571CM42	38 27 27	112 32 22	5.0	.50	.50	.5000	700	N	15	200	1.5	20	70	20
1572CM42	38 27 24	112 32 21	3.0	.70	.70	.7000	1,000	N	50	700	2.0	20	70	30
1573CM42	38 27 23	112 32 36	5.0	1.00	1.00	.5000	1,000	N	30	700	2.0	20	70	30
1575CM42	38 27 49	112 34 43	5.0	.70	1.00	.7000	1,000	N	50	700	3.0	20	150	50
1580CM41	38 23 26	112 23 2	2.0	1.00	1.00	.3000	700	N	20	700	3.0	10	50	20
1582CM41	38 25 28	112 23 56	1.5	.20	.15	.1500	5,000	N	50	100	20.0	<5	10	10
1583CM41	38 25 6	112 23 14	2.0	.70	.30	.3000	2,000	N	20	300	7.0	10	30	20
1584CM41	38 24 54	112 23 22	1.5	.20	.10	.1500	5,000	N	20	100	15.0	<5	<10	5
1585CM41	38 24 52	112 23 20	1.5	.50	.20	.3000	1,000	N	20	300	10.0	7	20	15
1586CM41	38 25 41	112 23 20	1.0	.20	.30	.2000	1,000	N	30	200	5.0	<5	15	15

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
1531CM42	50	N	50	7	50	5	N	100	30	50	<200	150
1532CM41	70	N	30	5	70	5	N	<100	30	100	N	200
1533CM41	150	5	50	<5	70	<5	N	N	15	150	N	500
1534CM41	150	30	50	5	70	5	N	N	15	100	700	200
1535CM41	30	5	50	<5	50	<5	N	N	20	30	N	200
1536CM41	100	20	50	<5	50	<5	N	N	15	70	500	700
1537CM41	70	5	50	<5	50	<5	N	N	15	70	N	200
1539CM41	50	N	50	<5	20	<5	N	<100	20	50	N	200
1540CM41	30	N	70	<5	70	<5	N	N	20	50	N	300
1541CM41	50	N	50	<5	50	<5	N	N	<10	50	N	200
1543CM41	30	N	50	5	50	5	N	100	50	50	N	200
1544CM41	100	N	50	5	70	5	N	100	30	150	N	200
1545CM41	150	20	50	<5	70	<5	N	N	30	150	200	500
1547CM41	50	N	50	<5	70	5	N	150	50	50	N	500
1548CM41	20	N	50	10	100	5	N	150	70	30	N	200
1550CM41	50	N	30	<5	30	<5	N	N	15	50	N	150
1551CM41	20	N	30	<5	30	5	N	100	30	30	N	200
1552CM41	70	N	50	<5	100	<5	N	N	10	50	N	150
1553CM42	150	N	50	5	100	7	N	<100	30	100	N	300
1554CM42	150	N	50	5	100	7	N	<100	30	100	N	300
1555CM42	30	N	70	5	70	5	N	100	30	70	N	200
1556CM42	70	N	50	N	50	5	N	N	10	50	N	200
1557CM42	30	N	50	<5	70	5	N	N	20	30	N	200
1558CM42	70	N	70	<5	70	<5	N	N	30	70	N	700
1559CM42	50	N	70	<5	50	5	N	<100	30	50	N	300
1561CM42	50	N	50	30	70	10	N	200	150	50	N	200
1562CM42	70	N	30	15	50	10	N	200	150	50	N	500
1563CM42	100	5	20	20	50	15	N	300	200	50	N	200
1564CM42	50	N	20	20	50	15	N	300	200	30	N	300
1565CM42	50	N	20	20	30	15	N	500	150	30	N	200
1566CM42	50	N	20	30	30	10	N	700	200	30	N	700
1567CM42	50	N	<20	50	30	15	N	700	200	30	N	500
1568CM42	50	5	N	15	70	15	N	300	200	30	N	200
1569CM42	50	N	<20	30	50	15	N	200	200	30	N	500
1570CM42	50	N	N	30	15	15	N	300	200	30	N	200
1571CM42	30	N	N	15	15	15	N	300	150	20	N	200
1572CM42	50	N	<20	50	50	15	N	500	200	30	N	300
1573CM42	50	N	<20	30	30	15	N	500	200	30	N	150
1575CM42	50	N	<20	50	50	15	N	500	200	30	N	200
1580CM41	30	N	N	20	20	10	N	500	100	20	N	150
1582CM41	100	20	50	5	100	5	N	<100	30	70	300	200
1583CM41	70	N	30	15	70	10	N	300	150	30	N	150
1584CM41	100	15	70	<5	150	5	N	N	20	70	<200	200
1585CM41	50	N	30	10	50	7	N	150	100	30	N	200
1586CM41	70	N	50	7	100	7	N	100	50	30	N	150

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1587CM41	38 25 38	112 23 38	1.0	.30	.50	.2000	700	.7	50	200	10.0	5	15	15
1588CM41	38 25 53	112 22 56	1.0	.30	.70	.2000	1,000	N	30	300	7.0	5	30	15
1590CM41	38 26 2	112 22 25	5.0	1.00	.70	.5000	1,000	N	30	700	3.0	20	70	50
1591CM41	38 25 46	112 22 42	3.0	1.50	1.00	.5000	1,000	N	30	700	7.0	15	100	50
1592CM42	38 16 52	112 34 4	2.0	1.50	1.50	.3000	1,000	N	70	500	3.0	10	70	20
1593CM42	38 16 22	112 33 27	3.0	1.00	1.50	.5000	1,500	N	70	700	2.0	20	70	30
1594CM41	38 27 31	112 15 45	2.0	.50	.70	.2000	1,500	N	70	200	10.0	5	15	10
1595CM41	38 27 30	112 17 17	1.5	.50	.50	.3000	1,000	N	70	200	7.0	7	30	15
1596CM41	38 27 31	112 21 8	3.0	1.50	2.00	.7000	1,000	.7	15	700	5.0	15	150	70
1598CM41	38 29 15	112 19 54	3.0	.70	.70	.7000	1,000	N	70	700	10.0	15	100	50
1654CM14	38 41 16	112 10 49	5.0	1.50	7.00	.5000	1,500	N	100	1,000	1.5	15	100	20
1666CM14	38 40 48	112 12 3	3.0	1.50	2.00	.5000	1,000	N	100	700	7.0	15	30	50
1667CM14	38 41 56	112 13 56	3.0	1.00	1.00	.5000	1,000	<.5	100	700	3.0	20	50	30
1668CM14	38 34 3	112 7 41	3.0	1.00	1.00	.7000	1,500	1.0	100	1,000	5.0	15	30	50
1670CM14	38 36 55	112 9 47	5.0	1.00	2.00	1.0000	1,500	N	100	1,000	3.0	10	100	30
1671CM14	38 35 52	112 10 52	7.0	1.50	3.00	1.0000	2,000	N	100	700	5.0	10	70	30
1672CM14	38 33 28	112 11 4	5.0	1.00	1.50	.7000	1,500	N	100	700	5.0	7	70	20
1673CM14	38 32 6	112 8 15	3.0	.70	1.00	.7000	1,500	N	70	1,000	5.0	5	15	20
1674CM14	38 30 53	112 8 29	5.0	1.00	1.50	.7000	3,000	N	100	1,500	3.0	10	70	50
1675CM14	38 30 56	112 10 31	3.0	.70	.70	.7000	1,000	N	50	700	5.0	7	50	30
1676CM14	38 31 11	112 11 52	7.0	1.00	1.00	1.0000	1,500	N	100	700	3.0	10	150	50
1677CM14	38 30 20	112 14 3	7.0	1.50	1.50	1.0000	1,500	.5	100	700	3.0	20	70	70
1678CM14	38 32 13	112 14 34	7.0	2.00	1.50	.7000	2,000	N	50	1,000	1.5	20	50	50
1679CM14	38 32 18	112 12 44	3.0	.70	.70	.7000	1,000	N	100	1,000	2.0	5	70	30
1680CM14	38 34 10	112 13 34	7.0	1.00	2.00	.7000	1,500	N	15	700	1.0	20	20	15
1681CM14	38 35 55	112 13 19	10.0	2.00	3.00	1.0000	1,500	N	30	1,000	1.0	50	150	30
1682CM14	38 34 48	112 14 52	7.0	2.00	2.00	.7000	1,500	N	10	700	2.0	50	50	30
1683CM14	38 34 47	112 14 55	5.0	1.50	2.00	.7000	1,500	N	15	700	2.0	30	50	30
1684CM14	38 34 44	112 14 56	5.0	1.50	2.00	.7000	1,500	N	15	700	2.0	30	70	30
1685CM14	38 35 59	112 15 29	2.0	.70	1.50	.3000	700	N	70	300	3.0	10	50	15
1686CM14	38 36 18	112 16 53	3.0	.70	1.50	.5000	1,000	N	70	200	5.0	10	50	15
1687CM14	38 37 48	112 15 4	3.0	1.00	2.00	.5000	1,500	N	100	1,000	3.0	15	70	50
1689CM14	38 40 15	112 16 10	7.0	1.50	2.00	.7000	2,000	N	70	700	2.0	20	100	50
1698CM14	38 41 30	112 19 22	5.0	1.50	1.50	.7000	1,000	N	50	700	2.0	20	100	20
1699CM14	38 42 21	112 17 23	2.0	.70	1.50	.3000	700	N	100	500	3.0	10	50	15
1702CM14	38 37 58	112 26 58	10.0	1.00	2.00	.7000	1,000	N	30	700	<1.0	20	150	50
1703CM14	38 39 42	112 25 24	3.0	1.00	1.50	.5000	1,000	N	50	700	2.0	15	100	30
1705CM14	38 40 5	112 23 51	15.0	.70	1.00	1.4286	1,000	N	30	700	1.5	50	200	30
1707CM14	38 40 9	112 23 42	10.0	1.00	2.00	1.0000	1,500	N	20	1,000	1.5	30	150	30
1708CM14	38 39 38	112 23 38	5.0	1.50	1.50	.5000	1,500	N	70	1,000	3.0	15	70	30
1709CM14	38 38 14	112 23 53	7.0	1.50	2.00	.7000	1,000	N	20	700	1.5	30	150	30
1710CM14	38 37 55	112 23 47	5.0	1.00	2.00	.5000	1,000	N	50	700	2.0	20	100	50
1711CM14	38 40 12	112 26 40	10.0	1.50	2.00	1.4286	2,000	N	15	700	1.0	50	200	50
1713CM14	38 38 57	112 28 13	20.0	1.50	2.00	1.4286	2,000	N	15	700	<1.0	50	300	50
1714CM14	38 41 21	112 27 25	2.0	1.00	1.50	.5000	700	N	100	700	1.0	10	100	30

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
1587CM41	500	7	30	10	100	5	N	100	50	150	N	200
1588CM41	70	<5	50	10	100	5	N	150	100	30	N	200
1590CM41	70	N	20	30	70	15	N	500	200	50	N	200
1591CM41	70	N	20	50	50	15	N	300	200	30	N	200
1592CM42	150	N	<20	20	100	15	N	500	150	70	N	300
1593CM42	50	N	<20	30	70	15	N	500	150	50	N	200
1594CM41	50	N	70	5	70	10	N	150	70	50	N	500
1595CM41	50	N	30	10	70	10	N	200	100	30	N	500
1596CM41	70	N	20	50	50	15	N	300	200	30	N	300
1598CM41	70	N	30	30	100	15	N	300	150	50	N	200
1654CM14	70	N	<20	20	70	15	N	500	150	50	N	200
1666CM14	70	N	<20	20	50	15	N	500	200	30	N	200
1667CM14	70	N	<20	30	50	15	N	300	200	50	N	200
1668CM14	70	N	20	15	70	15	N	300	200	30	N	300
1670CM14	50	N	20	15	50	10	N	700	200	30	N	500
1671CM14	50	N	20	20	70	10	N	500	200	30	N	700
1672CM14	50	N	20	15	50	10	N	500	150	30	N	300
1673CM14	70	N	<20	5	30	5	N	500	100	30	N	500
1674CM14	50	N	<20	15	100	10	N	500	100	30	N	500
1675CM14	30	N	<20	15	15	10	N	500	100	20	N	500
1676CM14	70	N	20	30	70	15	N	300	200	30	N	500
1677CM14	100	7	20	50	50	15	N	500	200	50	N	500
1678CM14	50	N	<20	20	20	20	N	700	200	50	N	150
1679CM14	50	N	<20	15	70	10	N	500	100	30	N	200
1680CM14	50	N	N	15	15	15	N	1,000	200	30	N	150
1681CM14	50	N	N	50	50	20	N	1,000	700	30	N	200
1682CM14	70	N	<20	30	30	20	N	1,000	300	30	N	100
1683CM14	70	N	<20	30	30	15	N	1,000	300	30	N	100
1684CM14	70	N	<20	30	30	15	N	1,000	300	30	N	150
1685CM14	50	N	<20	15	30	10	N	300	150	20	N	150
1686CM14	70	N	30	15	50	10	N	200	200	20	N	300
1687CM14	70	N	<20	20	50	15	N	700	150	30	N	300
1689CM14	50	N	<20	30	50	15	N	700	200	50	N	200
1698CM14	50	N	<20	50	30	15	N	500	300	30	N	200
1699CM14	50	N	<20	20	20	10	N	300	100	20	N	150
1702CM14	70	N	<20	30	30	15	N	700	300	50	N	1,000
1703CM14	50	N	20	30	30	15	N	700	150	30	N	200
1705CM14	50	N	20	70	20	15	N	700	500	30	200	200
1707CM14	70	N	<20	50	30	15	N	700	300	50	<200	700
1708CM14	30	N	N	20	50	15	N	500	150	30	N	300
1709CM14	50	N	<20	50	30	20	N	700	200	50	N	500
1710CM14	50	N	<20	20	50	15	N	500	200	50	N	300
1711CM14	50	N	<20	50	50	20	N	500	500	30	<200	500
1713CM14	30	N	N	50	50	15	N	500	500	30	200	700
1714CM14	50	N	<20	30	50	10	N	200	200	30	N	500

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1715CM14	38 41 44	112 28 9	2.0	.50	.30	.5000	1,000	N	100	500	1.0	7	50	20
1718CM14	38 42 11	112 24 22	5.0	1.50	7.00	.5000	1,000	N	100	1,500	1.5	15	150	20
1720CM14	38 35 45	112 28 38	3.0	1.00	1.50	.5000	700	N	50	700	2.0	15	70	20
1721CM14	38 36 10	112 26 39	3.0	.70	1.00	.5000	1,000	N	100	700	2.0	15	30	30
1722CM14	38 35 21	112 27 22	7.0	3.00	2.00	.7000	1,500	N	30	1,000	2.0	20	70	30
1723CM14	38 32 37	112 28 19	2.0	.50	.70	.5000	1,500	N	100	700	5.0	10	30	20
1724CM14	38 32 48	112 26 54	2.0	.70	1.00	.3000	1,000	N	100	700	5.0	7	30	20
1725CM14	38 32 19	112 26 44	1.0	.50	.50	.3000	1,000	N	50	300	10.0	5	15	10
1726CM14	38 34 29	112 25 16	10.0	2.00	2.00	.7000	1,500	N	50	700	1.5	30	150	50
1727CM14	38 34 47	112 19 45	2.0	.70	1.00	.2000	700	<.5	100	300	5.0	5	30	15
1728CM14	38 34 9	112 19 53	5.0	1.00	2.00	.5000	1,000	N	100	700	3.0	15	50	15
1729CM14	38 35 5	112 24 24	5.0	1.50	2.00	.7000	1,500	N	30	700	2.0	20	100	50
1730CM14	38 32 53	112 22 16	1.5	1.00	1.50	.5000	1,000	N	70	700	7.0	10	50	15
1731CM14	38 33 46	112 22 1	1.5	1.00	2.00	.2000	700	N	100	500	5.0	7	20	20
1732CM14	38 33 35	112 23 55	2.0	1.00	1.00	.7000	1,000	N	70	700	3.0	10	50	30
1733CM14	38 33 38	112 23 46	3.0	1.00	1.00	.7000	1,000	N	50	700	5.0	20	100	30
1735CM14	38 33 12	112 25 41	2.0	1.00	1.00	.5000	1,000	N	70	700	5.0	10	70	20
1737CM14	38 32 37	112 24 39	1.5	.70	1.00	.3000	1,000	N	70	700	7.0	10	30	20
1738CM14	38 32 38	112 23 25	1.5	.70	1.50	.5000	1,000	N	70	500	7.0	7	50	15
1739CM14	38 30 58	112 25 15	1.5	.30	.50	.2000	1,000	N	70	300	7.0	5	20	15
1740CM14	38 31 50	112 23 26	2.0	.50	1.00	.3000	1,500	N	70	300	7.0	7	50	15
1741CM14	38 30 58	112 23 44	.7	.20	.50	.1500	500	<.5	50	150	10.0	<5	10	15
1742CM14	38 33 53	112 17 49	7.0	1.50	2.00	.7000	1,500	N	70	1,000	1.5	30	100	30
1743CM14	38 30 48	112 19 22	2.0	.50	1.00	.5000	1,500	N	70	700	5.0	10	30	20
1744CM41	38 21 51	112 14 14	2.0	1.50	7.00	.5000	1,000	N	70	700	1.5	7	70	20
1745CM41	38 19 38	112 13 39	5.0	1.50	2.00	.7000	1,000	N	20	700	2.0	20	150	30
1747CM41	38 19 9	112 13 24	5.0	1.50	2.00	.7000	1,000	N	50	1,000	3.0	30	200	50
1749CM41	38 18 14	112 14 16	5.0	2.00	1.50	.7000	1,000	N	30	700	2.0	30	200	30
1750CM41	38 20 25	112 9 49	5.0	1.50	2.00	.7000	1,000	N	50	700	2.0	20	100	20
1752CM41	38 18 10	112 9 50	3.0	2.00	3.00	.7000	1,000	N	70	700	2.0	20	150	50
1753CM41	38 16 29	112 7 39	3.0	.70	1.00	.7000	1,000	N	70	700	2.0	20	70	20
1754CM41	38 18 20	112 8 43	7.0	2.00	3.00	.7000	1,500	N	70	700	1.0	30	150	30
1755CM41	38 29 30	112 27 16	2.0	.70	.70	.2000	500	<.5	100	300	50.0	<5	30	20
1756CM41	38 28 29	112 27 21	1.0	.15	.20	.3000	2,000	N	30	100	10.0	<5	<10	<5
1757CM41	38 28 0	112 27 1	1.0	.30	.50	.2000	1,000	N	30	200	10.0	<5	15	10
1760CM41	38 29 20	112 26 26	3.0	.70	.70	.5000	700	N	50	700	5.0	10	150	70
1761CM14	38 33 47	112 16 26	5.0	1.50	3.00	.5000	1,500	N	15	1,500	1.5	20	100	50
1762CM14	38 32 11	112 16 10	7.0	1.50	2.00	.7000	2,000	N	50	1,000	1.5	20	50	70
1764CM14	38 32 4	112 16 22	7.0	1.50	2.00	.7000	1,500	N	20	1,500	2.0	20	20	30
1765CM14	38 31 3	112 15 58	5.0	1.00	3.00	.7000	700	N	100	700	<1.0	N	20	50
1771CM41	38 15 19	112 10 15	5.0	3.00	3.00	.7000	2,000	N	20	500	1.5	30	50	30
1772CM41	38 16 41	112 11 18	7.0	3.00	2.00	.7000	1,500	N	20	700	1.0	30	200	30
1773CM41	38 17 45	112 11 38	5.0	2.00	3.00	.5000	1,500	N	20	700	1.5	30	150	30
1776CM41	38 21 1	112 6 23	3.0	2.00	2.00	.5000	1,000	N	20	700	1.5	15	20	50
1777CM41	38 22 25	112 4 54	7.0	1.50	2.00	.7000	1,500	N	10	700	1.5	30	150	30

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
1715CM14	20	N	N	10	10	10	N	100	100	30	N	500
1718CM14	50	N	<20	30	70	15	N	500	150	30	N	200
1720CM14	70	N	<20	20	50	15	N	700	200	50	N	200
1721CM14	70	N	20	20	30	15	N	500	150	50	N	200
1722CM14	70	N	<20	30	50	20	N	700	200	70	N	700
1723CM14	70	N	50	20	50	10	N	300	150	50	N	200
1724CM14	70	N	50	20	50	10	N	500	150	50	N	300
1725CM14	70	N	70	10	50	7	N	200	50	50	N	200
1726CM14	50	N	N	50	50	20	N	700	300	30	N	200
1727CM14	70	5	30	10	100	7	N	150	100	30	N	150
1728CM14	50	<5	20	15	50	10	N	500	200	30	N	200
1729CM14	70	N	<20	50	50	20	N	700	200	50	N	300
1730CM14	100	N	30	15	70	10	N	500	150	50	N	200
1731CM14	70	N	<20	15	30	10	N	300	100	30	N	150
1732CM14	70	N	<20	30	30	15	N	500	200	50	N	200
1733CM14	70	N	20	30	50	15	N	700	200	50	N	200
1735CM14	50	N	50	20	70	10	N	300	150	50	N	200
1737CM14	50	N	50	15	70	10	N	300	150	50	N	300
1738CM14	100	N	30	10	70	10	N	300	150	50	N	500
1739CM14	50	N	50	10	50	7	N	150	70	50	N	200
1740CM14	200	N	50	10	100	10	20	300	150	50	N	200
1741CM14	50	N	20	<5	70	5	N	100	30	30	N	150
1742CM14	50	N	20	20	70	15	N	700	300	50	N	300
1743CM14	70	N	20	15	50	10	N	500	150	30	N	200
1744CM41	50	N	N	20	50	10	N	300	100	30	N	300
1745CM41	70	N	N	50	50	15	N	500	200	30	N	150
1747CM41	70	N	<20	70	50	20	N	500	200	30	N	150
1749CM41	70	N	N	70	30	20	N	1,000	200	30	N	150
1750CM41	100	N	<20	50	50	15	N	700	200	30	N	200
1752CM41	70	N	<20	70	50	20	N	700	200	30	N	300
1753CM41	50	N	<20	30	30	15	N	700	200	30	N	200
1754CM41	50	N	<20	50	50	20	N	700	300	50	N	300
1755CM41	30	N	20	10	70	7	N	<100	50	50	N	150
1756CM41	50	N	50	<5	70	5	N	N	20	50	N	300
1757CM41	50	N	30	<5	50	5	N	100	30	30	N	300
1760CM41	50	N	<20	20	30	15	N	300	150	30	N	200
1761CM14	70	N	<20	30	50	15	N	1,000	200	30	N	150
1762CM14	50	N	N	15	70	15	N	500	200	30	N	150
1764CM14	70	N	N	10	50	15	N	700	200	50	N	200
1765CM14	30	N	N	N	100	15	N	1,000	200	20	N	150
1771CM41	70	N	N	20	50	30	N	700	300	70	N	300
1772CM41	50	N	<20	70	30	20	N	1,000	300	50	N	150
1773CM41	70	N	N	50	30	20	N	700	300	30	N	150
1776CM41	50	N	N	15	30	15	N	1,000	200	30	N	100
1777CM41	70	N	N	50	30	20	N	700	500	30	N	150

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
1778CM41	38 22 35	112 4 48	5.0	2.00	1.50	.5000	1,000	N	10	500	1.5	20	30	50
1779CM44	38 23 6	112 3 45	3.0	1.50	2.00	.5000	700	N	<10	300	1.0	20	100	30
1780CM41	38 23 58	112 3 6	3.0	1.00	1.50	.5000	1,000	N	20	700	2.0	20	70	50
1781CM41	38 24 33	112 2 18	3.0	1.00	1.50	.5000	1,500	N	30	500	2.0	15	20	30
1783CM41	38 25 2	112 2 38	3.0	1.00	1.00	.7000	700	N	70	700	3.0	20	70	70
1784CM41	38 24 27	112 0 39	5.0	1.50	1.50	.7000	1,500	N	30	700	2.0	30	150	50
1786CM41	38 24 28	112 0 35	5.0	1.50	1.50	.7000	1,500	N	20	700	2.0	30	150	30
1789CM41	38 29 21	112 0 9	3.0	.70	1.00	.5000	700	N	70	700	5.0	10	50	50
1790CM41	38 27 40	112 3 48	3.0	.70	1.00	.5000	1,000	N	50	1,000	3.0	10	50	50
1867CM13	38 30 24	112 35 16	5.0	2.00	2.00	1.0000	1,500	N	30	1,000	3.0	30	200	30
1868CM13	38 30 20	112 35 3	5.0	2.00	2.00	.7000	1,000	N	20	700	1.0	20	200	30
1869CM13	38 30 12	112 34 58	5.0	1.00	1.00	.7000	1,000	N	50	1,000	3.0	20	100	30
1870CM13	38 30 14	112 34 21	7.0	1.00	1.00	.7000	1,500	N	20	1,000	2.0	20	150	50
1871CM13	38 30 10	112 34 23	5.0	1.00	1.00	.7000	1,500	N	50	1,000	1.5	15	70	30
1872CM13	38 30 11	112 34 1	15.0	2.00	2.00	1.4286	2,000	N	20	1,000	1.5	50	300	50
1873CM13	38 30 7	112 34 3	10.0	1.00	1.00	1.0000	1,500	N	20	1,000	1.5	30	150	50
1874CM13	38 30 7	112 33 48	3.0	1.00	1.00	.7000	1,500	N	70	1,000	2.0	15	70	50
1875CM42	38 27 0	112 34 27	5.0	1.00	.70	.7000	1,000	N	30	1,000	1.5	20	100	50
2122CM41	38 15 4	112 0 38	3.0	1.00	1.50	.5000	2,000	N	70	1,000	3.0	10	50	20
2124CM41	38 16 38	112 0 26	7.0	2.00	3.00	.7000	1,000	N	20	1,000	1.0	20	100	30
2127CM41	38 18 24	112 2 32	5.0	1.00	1.50	.5000	1,000	N	30	1,000	1.5	15	100	20
2128CM41	38 17 14	112 3 30	3.0	1.00	1.50	.5000	1,500	N	30	1,000	1.5	10	50	30
2129CM41	38 19 3	112 3 51	2.0	.70	1.00	.7000	1,000	N	100	700	5.0	10	70	30
2131CM14	38 39 20	112 14 14	5.0	2.00	7.00	.7000	1,500	N	50	500	2.0	20	150	20
2133CM14	38 39 19	112 14 14	5.0	2.00	2.00	.7000	1,500	N	30	700	2.0	20	100	30
2134CM13	38 37 49	112 17 5	3.0	.70	1.50	.5000	1,500	N	70	700	3.0	20	50	20
2140CM13	38 39 50	112 29 37	2.0	1.00	2.00	.5000	2,000	N	150	700	3.0	15	50	20
2141CM13	38 32 9	112 31 5	5.0	.70	.70	.7000	1,500	N	70	700	7.0	10	50	30
2142CM13	38 33 18	112 30 13	10.0	1.00	1.50	1.4286	1,500	N	50	700	3.0	30	100	30
2143CM14	38 34 30	112 28 45	3.0	.70	1.50	.5000	1,500	N	70	1,000	3.0	7	50	20
2144CM14	38 32 21	112 28 57	2.0	.50	1.00	.5000	1,000	<.5	70	700	5.0	10	70	30
2145CM14	38 30 50	112 27 32	2.0	.50	.70	.5000	1,000	N	50	500	7.0	7	70	20
2146CM14	38 30 59	112 21 36	1.0	.30	.70	.2000	1,500	N	70	300	15.0	5	20	10
2147CM14	38 35 17	112 18 20	2.0	.70	1.00	.3000	1,000	N	100	300	7.0	5	20	15
2148CM14	38 35 25	112 21 35	5.0	1.50	2.00	.5000	2,000	N	70	700	3.0	20	50	30
2149CM14	38 36 59	112 24 5	3.0	3.00	2.00	.7000	1,500	N	50	1,000	1.0	20	70	50
2150CM13	38 31 59	112 35 2	3.0	1.50	1.50	.7000	1,500	N	50	700	2.0	20	70	50
2151CM41	38 29 23	112 10 56	3.0	1.50	1.50	.5000	1,000	N	100	700	7.0	20	100	30
2152CM41	38 21 54	112 10 54	7.0	3.00	5.00	.7000	1,000	N	70	1,000	1.5	20	300	20
2153CM41	38 28 53	112 2 18	3.0	.70	1.00	.7000	1,500	N	70	1,000	7.0	15	70	50
2154CM41	38 20 58	112 4 34	3.0	1.50	2.00	.7000	2,000	N	50	700	2.0	20	70	50
2155CM41	38 19 19	112 6 17	7.0	2.00	3.00	.7000	1,000	N	15	1,000	1.0	20	150	50
2301CM41	38 28 41	112 20 36	2.0	1.00	1.00	.7000	1,000	<.5	70	700	20.0	10	50	50
2302CM41	38 28 30	112 20 49	1.0	.50	.70	.5000	1,000	N	70	500	20.0	7	30	20
2303CM41	38 28 32	112 20 52	1.5	.50	.70	.5000	1,000	<.5	70	500	20.0	7	30	20

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
1778CM41	50	N	N	15	20	20	N	700	200	50	N	150
1779CM44	30	N	N	50	15	20	N	700	200	30	N	100
1780CM41	50	N	N	30	30	15	N	700	200	30	N	150
1781CM41	50	N	N	15	20	15	N	500	200	30	N	150
1783CM41	50	N	<20	20	30	15	N	700	200	30	N	150
1784CM41	50	N	<20	50	50	15	N	500	200	50	<200	150
1786CM41	50	N	N	50	30	20	N	700	200	50	N	150
1789CM41	50	N	<20	30	50	15	N	500	150	30	N	200
1790CM41	50	N	20	20	70	10	N	500	150	30	N	300
1867CM13	70	N	<20	50	50	15	N	1,000	200	30	N	150
1868CM13	50	N	<20	50	30	10	N	700	200	30	N	200
1869CM13	50	N	<20	30	30	15	N	700	150	30	N	300
1870CM13	50	N	<20	20	30	15	N	500	150	30	N	200
1871CM13	50	N	<20	20	30	15	N	500	150	30	N	300
1872CM13	100	N	20	50	50	20	N	700	300	50	N	500
1873CM13	50	N	<20	30	30	15	N	500	200	30	N	500
1874CM13	50	N	<20	20	50	15	N	500	150	30	N	300
1875CM42	50	N	N	30	50	15	N	200	200	30	N	700
2122CM41	70	N	20	15	100	10	N	500	200	50	N	300
2124CM41	50	N	N	30	50	20	N	1,000	500	30	N	150
2127CM41	70	N	<20	20	50	15	N	700	150	30	N	300
2128CM41	50	N	N	20	50	15	N	1,000	150	30	N	200
2129CM41	50	N	<20	30	20	15	N	500	150	30	N	200
2131CM14	50	N	<20	50	30	20	N	500	200	30	N	200
2133CM14	70	N	<20	30	30	20	N	500	300	50	<200	300
2134CM13	100	N	<20	30	70	15	N	500	200	50	N	500
2140CM13	50	N	<20	30	50	15	N	200	150	50	N	300
2141CM13	100	N	30	20	70	15	N	300	200	70	N	300
2142CM13	70	N	30	50	30	20	N	700	300	50	N	300
2143CM14	100	N	20	20	50	15	N	1,000	150	50	N	500
2144CM14	70	N	20	20	50	10	N	500	100	30	N	700
2145CM14	50	N	30	15	30	10	N	300	100	50	N	200
2146CM14	70	7	50	5	70	7	N	200	50	50	N	500
2147CM14	100	N	30	10	70	7	N	300	100	30	N	200
2148CM14	50	N	<20	30	50	15	N	700	200	30	N	150
2149CM14	50	N	N	50	50	20	N	700	200	50	N	200
2150CM13	70	N	<20	30	70	15	N	500	200	30	N	300
2151CM41	150	N	30	50	70	15	N	500	150	50	N	500
2152CM41	50	N	<20	30	50	15	N	500	200	30	N	150
2153CM41	150	N	30	30	70	15	N	700	200	50	N	500
2154CM41	50	N	N	20	30	20	N	500	200	50	N	200
2155CM41	150	N	N	30	30	15	N	1,000	150	30	N	100
2301CM41	100	N	30	20	100	15	N	300	200	50	N	300
2302CM41	70	N	30	15	100	10	50	300	100	50	N	200
2303CM41	70	N	30	10	100	10	N	200	100	50	N	300

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
2305CM41	38 27 50	112 22 28	1.5	.70	.70	.3000	1,000	<.5	50	300	20.0	7	30	20
2306CM41	38 27 39	112 22 29	1.5	.70	.70	.3000	1,000	<.5	50	300	15.0	7	30	20
2307CM41	38 27 37	112 22 19	3.0	1.00	.70	.7000	1,500	N	30	700	7.0	15	100	30
2309CM41	38 26 28	112 15 9	5.0	1.00	2.00	.7000	1,500	N	30	1,000	3.0	15	70	50
2311CM41	38 26 23	112 18 44	3.0	1.00	.70	.7000	700	N	20	500	3.0	15	70	20
2313CM41	38 24 58	112 18 37	2.0	.70	.50	.5000	700	2.0	20	700	3.0	7	30	15
2314CM41	38 25 7	112 19 19	3.0	1.00	.70	.5000	1,000	1.5	20	700	3.0	20	70	50
2315CM41	38 29 14	112 15 9	3.0	.70	1.00	.5000	1,500	<.5	70	500	5.0	5	30	15
2316CM41	38 28 23	112 14 24	2.0	1.00	1.50	.5000	1,500	<.5	100	700	5.0	10	50	20
2317CM41	38 28 52	112 13 14	3.0	1.50	3.00	.5000	1,000	N	100	700	3.0	10	50	30
2319CM41	38 28 55	112 13 19	5.0	1.50	3.00	.7000	1,500	N	70	700	3.0	15	100	20
2320CM41	38 29 18	112 11 52	10.0	1.50	1.50	1.4286	2,000	N	50	1,000	2.0	30	200	70
2321CM41	38 27 6	112 12 26	5.0	1.50	2.00	.7000	1,500	N	30	1,000	3.0	20	70	50
2322CM41	38 28 20	112 10 55	3.0	1.50	2.00	.5000	1,000	N	70	1,500	3.0	15	50	30
2323CM41	38 27 8	112 9 59	3.0	1.50	2.00	.7000	1,500	N	50	1,500	2.0	20	150	30
2324CM41	38 25 3	112 10 38	2.0	1.50	2.00	.5000	1,000	N	70	700	3.0	15	70	20
2325CM41	38 24 14	112 11 20	5.0	2.00	2.00	.7000	1,500	N	50	700	2.0	30	200	30
2326CM41	38 26 1	112 12 14	2.0	1.50	3.00	.7000	1,000	N	50	700	3.0	20	200	20
2327CM41	38 23 40	112 19 12	2.0	1.50	.70	.5000	1,500	1.5	50	700	3.0	15	70	50
2329CM41	38 23 25	112 16 23	3.0	3.00	5.00	.5000	1,500	3.0	100	700	3.0	10	70	50
2332CM41	38 21 51	112 19 37	7.0	1.00	.70	.7000	1,000	<.5	20	1,000	2.0	10	100	50
2333CM41	38 20 59	112 18 58	7.0	2.00	1.00	.7000	1,500	.7	30	700	2.0	10	70	50
2334CM41	38 22 10	112 15 29	2.0	1.00	.50	.5000	700	1.5	100	700	5.0	5	100	30
2336CM41	38 15 59	112 15 36	15.0	3.00	7.00	1.0000	2,000	N	15	1,000	1.0	50	300	70
2337CM41	38 17 43	112 15 41	7.0	3.00	2.00	.7000	1,500	N	20	1,000	1.0	20	200	50
2339CM41	38 16 16	112 17 39	5.0	2.00	2.00	.7000	1,000	N	20	700	1.5	30	500	30
2340CM41	38 18 17	112 17 38	7.0	2.00	2.00	.7000	1,500	N	15	700	1.5	30	700	50
2345CM42	38 16 37	112 31 31	3.0	1.00	1.50	.7000	1,500	N	50	500	3.0	15	30	20
2346CM42	38 17 13	112 31 8	3.0	.70	1.50	.7000	1,500	N	100	1,000	5.0	10	50	30
2347CM42	38 20 26	112 31 19	1.5	.70	.70	.5000	1,000	N	50	500	5.0	10	100	30
2348CM42	38 20 58	112 31 5	3.0	.70	.30	1.0000	1,000	N	50	500	5.0	10	30	15
2349CM41	38 20 31	112 29 22	3.0	.70	.50	.5000	1,500	N	100	500	7.0	10	20	15
2350CM41	38 20 42	112 28 54	5.0	.70	.50	.7000	1,500	N	100	1,000	3.0	20	30	20
2351CM41	38 20 35	112 28 54	5.0	.70	.70	.7000	1,000	N	70	1,500	3.0	10	100	30
2352CM41	38 21 1	112 28 16	7.0	1.50	1.50	.7000	2,000	N	100	1,500	3.0	20	100	50
2353CM41	38 20 59	112 28 23	2.0	.70	.70	.3000	2,000	N	100	700	20.0	50	10	20
2354CM41	38 21 17	112 27 58	3.0	.70	.50	.5000	1,000	N	70	500	5.0	7	30	20
2355CM41	38 21 4	112 27 6	3.0	1.00	1.00	.7000	1,000	N	50	1,000	5.0	15	70	30
2356CM41	38 21 3	112 27 7	3.0	1.00	1.00	.7000	1,000	<.5	30	1,000	2.0	10	70	50
2375CM42	38 29 20	112 32 7	10.0	1.00	1.50	1.0000	1,000	N	20	700	1.5	20	100	30
2376CM42	38 29 21	112 32 13	2.0	.70	1.00	.3000	1,000	<.5	50	500	5.0	10	50	20
2377CM42	38 28 2	112 31 43	5.0	.70	.70	.3000	1,000	N	30	300	3.0	10	30	15
2378CM42	38 27 59	112 31 43	3.0	.50	.70	.3000	1,000	N	30	300	7.0	7	30	20
2379CM42	38 28 41	112 30 9	1.5	.50	.50	.3000	1,500	N	70	300	7.0	7	20	15
2380CM42	38 28 37	112 30 8	1.5	.50	.50	.3000	1,500	N	70	500	10.0	5	50	15

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
2305CM41	100	N	30	15	70	10	N	200	100	50	N	200
2306CM41	100	N	30	15	70	10	N	200	100	50	N	200
2307CM41	100	N	30	30	70	15	N	300	200	50	N	200
2309CM41	100	N	<20	20	70	15	N	300	300	50	N	300
2311CM41	70	N	N	30	20	15	N	500	200	30	N	500
2313CM41	20	<5	N	15	30	10	N	300	150	20	N	300
2314CM41	50	7	N	30	150	15	N	300	200	30	N	300
2315CM41	150	<5	50	10	100	10	N	300	150	70	N	500
2316CM41	50	N	30	20	70	10	N	300	100	30	N	200
2317CM41	50	5	<20	20	50	15	N	700	150	30	N	300
2319CM41	70	5	<20	30	50	15	N	500	150	30	N	300
2320CM41	150	5	20	50	70	20	N	700	500	70	N	700
2321CM41	100	N	<20	30	50	15	N	500	300	50	N	300
2322CM41	100	N	<20	15	50	15	N	500	200	50	N	300
2323CM41	100	N	<20	30	70	15	N	700	300	50	N	200
2324CM41	100	N	20	30	50	15	N	500	200	50	N	200
2325CM41	50	N	<20	50	30	20	N	500	300	50	N	300
2326CM41	100	N	<20	20	50	15	N	700	200	50	N	300
2327CM41	100	N	<20	20	70	15	N	300	200	70	N	200
2329CM41	50	N	<20	20	150	15	N	300	100	30	N	300
2332CM41	50	N	<20	20	50	15	N	500	200	30	N	500
2333CM41	50	N	<20	20	50	15	N	500	200	30	N	300
2334CM41	50	N	N	10	20	70	N	100	100	20	N	200
2336CM41	50	N	N	70	30	20	N	1,000	500	50	N	150
2337CM41	50	N	N	100	20	20	N	700	200	30	N	200
2339CM41	50	N	N	150	30	20	N	700	200	30	N	200
2340CM41	50	N	<20	150	30	20	N	700	300	30	N	200
2345CM42	100	N	<20	15	50	15	N	700	150	50	N	200
2346CM42	50	N	<20	15	70	10	N	500	150	30	N	200
2347CM42	50	N	<20	30	50	10	N	300	100	30	N	150
2348CM42	70	7	30	10	70	10	N	300	200	30	N	500
2349CM41	70	10	20	15	70	10	N	300	150	30	N	300
2350CM41	70	N	20	15	50	10	N	200	200	30	N	500
2351CM41	70	N	20	20	70	15	N	500	150	30	N	200
2352CM41	70	N	<20	30	50	15	N	700	200	30	N	200
2353CM41	70	N	20	70	50	7	N	300	50	70	300	200
2354CM41	50	5	30	10	70	10	N	300	100	30	N	200
2355CM41	70	N	20	20	30	15	N	500	200	30	N	200
2356CM41	50	N	<20	15	70	10	N	700	150	30	N	200
2375CM42	50	N	<20	20	50	15	N	500	300	30	N	150
2376CM42	30	N	20	15	50	10	N	500	100	30	N	200
2377CM42	50	N	<20	10	15	10	N	500	100	30	N	200
2378CM42	50	N	30	10	50	7	N	500	100	50	N	200
2379CM42	50	N	50	15	70	10	N	150	70	100	N	200
2380CM42	50	N	100	7	70	7	N	100	50	30	N	500

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
2382CM41	38 28 51	112 28 3	1.0	.30	.70	.3000	1,000	N	50	200	15.0	5	20	10
2383CM41	38 28 45	112 28 15	1.0	.30	.50	.3000	1,000	<.5	50	200	20.0	N	15	5
2384CM41	38 28 40	112 28 21	.7	.50	5.00	.2000	500	<.5	30	150	1.0	5	30	10
2385CM41	38 28 1	112 28 11	1.0	.20	.20	.2000	1,000	N	30	100	10.0	N	<10	5
2386CM41	38 27 58	112 28 11	1.0	.30	.30	.2000	1,500	N	30	100	20.0	<5	10	5
2387CM41	38 28 2	112 25 18	1.5	.70	.70	.5000	1,000	.5	20	1,000	5.0	10	50	20
2388CM41	38 21 56	112 28 59	3.0	.70	.50	.7000	700	<.5	100	1,000	5.0	10	30	30
2389CM41	38 23 27	112 25 29	5.0	1.00	1.00	.7000	1,000	N	20	700	7.0	15	50	50
2390CM41	38 22 54	112 26 39	1.5	.30	.20	.3000	1,500	<.5	50	300	10.0	7	15	20
2391CM41	38 24 28	112 24 51	1.5	.20	.20	.1500	2,000	<.5	20	70	15.0	<5	<10	5
2392CM41	38 26 29	112 26 36	1.0	.50	.70	.2000	1,500	.5	50	200	20.0	5	15	15
2393CM41	38 27 5	112 22 40	2.0	.70	.70	.3000	1,500	.7	70	500	50.0	5	50	50
2394CM41	38 27 29	112 19 2	5.0	1.50	1.00	.7000	2,000	N	50	1,000	5.0	10	100	70
2395CM41	38 28 31	112 17 45	1.0	.30	.50	.3000	1,500	N	50	300	5.0	5	20	15
2396CM42	38 29 29	112 35 55	5.0	.70	1.00	1.0000	1,500	N	30	700	2.0	20	200	20
2397CM42	38 29 32	112 35 52	5.0	.70	1.50	.7000	1,000	N	20	700	1.5	20	100	20
2398CM42	38 29 36	112 35 56	2.0	.70	1.00	.5000	1,500	N	50	700	2.0	10	50	20
2399CM41	38 18 18	112 6 44	3.0	1.00	1.00	.5000	1,000	N	30	700	2.0	10	50	30
2400CM41	38 17 12	112 6 11	5.0	1.00	1.50	.7000	1,500	N	30	700	2.0	30	100	50
2401CM41	38 16 15	112 6 40	1.0	.50	.50	.2000	1,000	N	50	500	2.0	5	20	15
2404CM41	38 15 51	112 4 7	5.0	1.50	1.50	.7000	1,500	N	30	1,000	2.0	20	300	50
2405CM41	38 16 14	112 3 57	5.0	1.00	1.50	.5000	1,000	<.5	50	1,000	2.0	15	200	30
2422CM13	38 39 25	112 31 11	3.0	1.00	.70	.5000	1,500	N	150	500	5.0	15	70	30
2423CM13	38 36 54	112 30 54	7.0	1.50	2.00	.7000	1,500	N	30	700	1.0	30	150	50
2424CM14	38 32 22	112 20 22	5.0	.70	1.50	.7000	1,000	N	30	700	5.0	15	100	20
2425CM14	38 39 32	112 2 16	5.0	2.00	2.00	.7000	2,000	N	50	700	2.0	30	70	70
2426CM14	38 38 14	112 5 1	5.0	1.50	2.00	1.0000	2,000	N	20	700	2.0	30	70	50
2427CM14	38 35 33	112 3 21	5.0	1.00	1.00	.7000	2,000	N	500	700	5.0	20	30	70
2428CM14	38 34 41	112 3 22	5.0	1.00	1.00	.7000	700	N	200	1,000	3.0	10	50	70
2429CM14	38 34 48	112 3 3	3.0	1.00	1.50	.5000	2,000	N	150	1,000	5.0	15	70	50
2430CM14	38 32 43	112 2 0	2.0	.70	1.00	.7000	1,000	N	100	700	7.0	15	100	30
2431CM14	38 30 52	112 6 20	3.0	1.00	1.00	.7000	1,500	N	70	1,000	5.0	15	70	50
2432CM14	38 30 28	112 4 37	3.0	1.00	1.00	.7000	700	N	50	700	3.0	15	150	50
2433CM14	38 32 58	112 6 44	5.0	.70	1.00	.7000	1,500	N	50	1,000	2.0	20	100	50
2434CM41	38 27 11	112 27 21	1.0	.20	.20	.2000	1,000	<.5	30	100	10.0	<5	20	5
2435CM41	38 27 1	112 27 20	1.5	.20	.30	.2000	5,000	N	70	150	50.0	<5	15	7
2436CM41	38 24 27	112 21 6	7.0	2.00	1.00	.7000	1,000	N	20	700	1.0	30	150	50
2437CM41	38 23 41	112 22 1	7.0	1.00	.70	.7000	1,000	N	20	700	2.0	20	150	50
2438CM41	38 21 41	112 21 6	3.0	1.50	1.00	.7000	1,000	N	20	1,000	2.0	15	70	50
2439CM41	38 19 28	112 19 32	5.0	2.00	2.00	.7000	2,000	N	10	700	1.0	30	50	30
2440CM41	38 19 57	112 17 40	7.0	1.50	1.50	.7000	1,500	N	30	700	2.0	20	100	30
2441CM41	38 19 57	112 15 2	1.5	1.00	3.00	.2000	500	N	100	700	2.0	5	30	15
2442CM41	38 18 53	112 16 6	3.0	1.00	1.50	.5000	1,000	N	30	700	2.0	15	70	30
2443CM41	38 16 51	112 19 12	5.0	5.00	2.00	.5000	1,500	N	10	700	1.5	30	500	50
2444CM41	38 17 58	112 20 19	5.0	1.50	1.50	.7000	1,000	N	20	700	1.5	30	300	50

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
2382CM41	70	N	50	5	70	7	N	200	50	50	N	200
2383CM41	50	N	50	<5	50	<5	N	100	30	100	N	500
2384CM41	<20	N	N	10	15	7	N	100	30	20	N	150
2385CM41	50	N	70	<5	70	5	N	<100	20	70	N	300
2386CM41	70	N	70	<5	70	5	N	<100	20	50	N	200
2387CM41	70	N	30	10	70	10	N	500	100	30	N	300
2388CM41	50	10	30	10	70	10	N	200	100	70	N	300
2389CM41	70	N	20	20	70	15	N	500	300	50	N	200
2390CM41	70	10	30	7	70	7	N	200	70	70	<200	300
2391CM41	100	7	70	<5	300	5	N	N	20	70	200	200
2392CM41	100	7	30	7	100	7	N	150	50	150	200	150
2393CM41	70	N	<20	10	100	10	N	200	70	50	N	150
2394CM41	50	N	<20	20	50	10	N	500	150	30	N	300
2395CM41	30	N	30	7	70	7	N	200	70	30	N	200
2396CM42	70	N	50	20	30	10	N	500	200	50	N	500
2397CM42	50	N	<20	20	50	15	N	500	200	30	N	300
2398CM42	50	N	<20	20	50	10	N	700	100	30	N	150
2399CM41	50	N	N	15	30	10	N	500	200	30	N	150
2400CM41	70	N	<20	50	50	15	N	700	200	30	N	200
2401CM41	N	N	N	10	<10	7	N	300	70	20	N	150
2404CM41	100	N	<20	100	30	15	N	1,000	200	50	N	200
2405CM41	100	N	N	50	50	15	N	700	200	50	N	150
2422CM13	50	N	<20	50	20	15	N	150	200	30	N	300
2423CM13	70	N	<20	70	50	20	N	700	300	30	N	200
2424CM14	100	N	20	20	30	15	N	1,000	200	30	N	200
2425CM14	70	N	N	30	50	20	N	1,000	200	30	N	300
2426CM14	70	N	<20	30	50	20	N	700	300	50	N	150
2427CM14	50	N	N	15	50	20	N	500	200	50	N	200
2428CM14	100	N	<20	10	50	20	N	700	300	50	N	200
2429CM14	100	N	20	20	70	15	N	500	200	50	N	300
2430CM14	70	N	<20	20	50	15	N	500	150	50	N	700
2431CM14	50	N	<20	30	70	15	N	500	200	50	N	300
2432CM14	100	N	<20	50	20	15	N	500	200	50	N	500
2433CM14	100	N	20	30	70	15	N	500	300	50	N	300
2434CM41	70	5	50	<5	100	7	N	<100	30	70	N	200
2435CM41	300	<5	50	7	50	5	N	N	20	150	200	500
2436CM41	50	N	<20	50	70	15	N	300	300	30	N	500
2437CM41	70	N	<20	50	70	20	N	500	300	30	N	500
2438CM41	70	N	<20	30	70	15	N	700	200	50	N	200
2439CM41	30	N	N	20	50	20	N	700	300	50	N	200
2440CM41	70	N	<20	30	50	20	N	700	200	30	N	300
2441CM41	20	N	N	15	20	10	N	200	100	20	N	200
2442CM41	100	N	<20	30	30	15	N	700	150	30	N	200
2443CM41	50	N	N	150	30	20	N	1,000	200	30	N	150
2444CM41	50	N	N	100	20	20	N	700	300	30	N	200

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	FE%	MG%	CA%	TI%	MN	AG	B	BA	BE	CO	CR	CU
2445CM41	38 16 24	112 23 42	10.0	1.00	1.50	.7000	1,500	N	50	1,000	1.5	30	100	70
2446CM14	38 32 55	112 15 53	5.0	1.50	2.00	.5000	1,000	N	15	500	1.0	20	20	20
2469CM41	38 15 32	112 18 21	7.0	1.50	2.00	.7000	1,000	N	30	700	1.0	30	100	30
2601CM14	38 40 42	112 16 15	3.0	.70	1.00	.5000	1,000	N	50	700	3.0	20	70	50
2631CM14	38 39 21	112 18 21	5.0	1.00	1.00	.5000	1,500	N	70	1,000	3.0	15	70	30
2633CM14	38 40 1	112 19 30	7.0	1.00	1.00	.7000	1,500	N	30	1,000	2.0	15	100	20
2634CM14	38 40 17	112 22 10	7.0	1.00	1.50	.7000	1,500	N	30	700	2.0	15	100	15
2636CM14	38 37 38	112 20 15	5.0	1.50	2.00	.7000	1,500	N	50	700	2.0	15	70	20
2638CM14	38 38 57	112 21 38	3.0	1.00	1.50	.5000	1,000	N	70	500	3.0	10	50	15
2639CM14	38 35 47	112 22 47	3.0	1.00	1.00	.5000	1,500	N	70	500	3.0	10	50	15
2831CM41	38 28 56	112 23 27	2.0	1.00	.50	.3000	700	.5	30	500	7.0	5	15	20
2832CM41	38 29 12	112 23 20	1.0	.50	.70	.2000	1,500	<.5	70	300	7.0	5	20	15
2833CM41	38 28 37	112 24 6	2.0	.70	.50	.3000	1,000	N	70	300	15.0	5	20	15
2834CM41	38 28 34	112 24 9	2.0	.70	.70	.2000	500	2.0	50	200	15.0	5	15	15
2837CM41	38 28 57	112 25 43	3.0	1.00	.50	.7000	1,500	.7	50	700	3.0	20	70	70
2838CM41	38 29 0	112 25 44	3.0	1.00	.70	.5000	1,000	<.5	50	1,000	3.0	10	70	50
2839CM41	38 29 5	112 25 54	3.0	.50	.50	.7000	700	1.0	50	1,000	5.0	7	50	50
2841CM41	38 29 14	112 8 18	3.0	1.00	1.00	.7000	1,500	N	200	1,500	2.0	10	70	70
2843CM41	38 27 22	112 8 35	2.0	.50	.70	.5000	1,000	N	100	700	3.0	10	30	30
2844CM41	38 28 55	112 7 20	2.0	.50	.70	.5000	1,000	N	200	1,000	3.0	7	20	50
2845CM41	38 26 30	112 8 32	3.0	.70	.70	.5000	1,000	N	150	1,000	3.0	15	70	30
2846CM42	38 26 4	112 7 24	5.0	1.00	1.50	.7000	1,500	N	50	700	5.0	15	50	50
2847CM41	38 24 58	112 8 20	2.0	1.00	2.00	.5000	1,000	N	100	700	3.0	15	50	30
2849CM41	38 23 15	112 10 55	15.0	1.50	1.50	1.4286	2,000	N	30	700	1.0	50	200	30
2851CM41	38 21 30	112 2 31	3.0	1.00	1.50	.7000	1,500	N	50	700	2.0	30	70	50
2853CM41	38 20 10	112 0 28	7.0	1.00	2.00	1.0000	1,500	N	20	1,500	1.5	15	50	70
2854CM41	38 19 25	112 0 14	3.0	1.00	1.50	.5000	1,000	N	50	700	1.5	20	50	20
2855CM41	38 18 34	112 0 40	2.0	.70	1.50	.2000	500	N	30	500	1.5	7	30	20

Table 3.--Six-step semiquantitative spectrographic analyses of the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LA	MO	NB	NI	PB	SC	SN	SR	V	Y	ZN	ZR
2445CM41	70	N	<20	50	30	20	N	700	500	50	N	500
2446CM14	50	N	N	15	15	15	N	700	200	30	N	100
2469CM41	50	N	<20	50	30	20	N	700	200	30	N	150
2601CM14	100	N	<20	50	30	15	N	500	200	30	N	200
2631CM14	50	N	<20	20	50	15	N	300	150	30	N	200
2633CM14	50	N	<20	20	30	15	N	700	200	50	N	300
2634CM14	50	N	<20	20	20	15	N	500	150	30	N	200
2636CM14	50	N	<20	15	50	15	N	700	200	30	N	300
2638CM14	50	N	<20	15	20	15	N	500	150	30	N	300
2639CM14	50	N	20	15	50	15	N	500	100	30	N	300
2831CM41	70	N	30	7	50	7	N	300	100	30	N	200
2832CM41	50	N	30	10	150	7	N	300	50	30	N	150
2833CM41	100	N	30	10	70	5	N	200	100	30	N	300
2834CM41	200	N	<20	10	50	7	N	200	100	70	N	150
2837CM41	70	N	<20	50	30	15	N	300	150	50	200	200
2838CM41	50	N	<20	20	30	15	N	300	200	30	N	300
2839CM41	70	5	20	10	50	10	N	300	150	30	N	300
2841CM41	100	N	20	20	100	15	N	500	150	50	N	700
2843CM41	50	N	<20	15	30	10	N	300	150	30	N	300
2844CM41	70	<5	<20	10	70	15	N	500	150	30	N	300
2845CM41	70	N	20	20	50	15	N	500	200	50	N	500
2846CM42	100	N	<20	20	50	15	N	500	200	50	N	500
2847CM41	70	N	<20	20	70	15	N	700	200	50	N	200
2849CM41	70	N	<20	70	50	20	N	500	700	30	300	200
2851CM41	50	N	<20	50	30	20	N	700	200	30	N	200
2853CM41	50	N	<20	15	20	10	N	1,500	200	30	N	300
2854CM41	30	N	<20	20	30	15	N	700	150	30	N	150
2855CM41	30	N	N	15	30	10	N	700	100	20	N	100

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
1053	38 40 53	112 2 20	3.88	11.00
1055	38 36 55	112 6 12	2.39	10.30
1056	38 36 46	112 3 36	6.80	22.50
1057	38 34 13	112 5 10	12.90	42.20
1058	38 34 39	112 4 59	18.20	52.90
1059	38 36 13	112 5 42	4.84	16.50
1061	38 38 21	112 3 5	4.85	22.20
1062	38 39 30	112 5 57	4.30	14.60
1066	38 30 36	112 1 58	29.80	91.90
1068	38 30 21	112 0 15	25.50	88.10
1069	38 33 11	112 0 22	8.89	35.40
1405	38 40 39	112 34 37	2.74	14.30
1406	38 40 24	112 31 17	2.91	12.60
1407	38 40 37	112 33 2	2.90	29.20
1408	38 16 12	112 32 55	1.13	11.60
1409	38 17 51	112 32 40	4.81	27.50
1410	38 21 51	112 33 55	7.98	36.10
1411	38 21 41	112 33 56	6.63	28.30
1417	38 22 50	112 31 47	8.14	49.80
1418	38 22 49	112 31 49	8.87	29.90
1427	38 27 9	112 30 43	2.54	10.50
1428	38 25 55	112 33 40	8.76	31.10
1429	38 26 5	112 34 5	6.77	34.90
1430	38 25 52	112 35 5	6.69	19.30
1431	38 27 5	112 34 16	4.28	17.10
1435	38 30 25	112 35 43	3.66	15.30
1436	38 30 14	112 34 47	3.07	14.80
1439	38 33 0	112 33 54	4.51	16.80
1444	38 34 29	112 34 8	5.93	23.70
1445	38 34 43	112 34 3	3.80	21.60
1446	38 34 41	112 33 56	3.49	17.30
1447	38 34 23	112 32 47	4.58	19.10
1448	38 35 43	112 31 32	4.21	20.40
1449	38 18 48	112 24 44	34.00	43.20
1450	38 19 18	112 21 41	5.20	8.20
1451	38 19 19	112 21 41	3.84	7.80
1452	38 19 20	112 21 6	5.00	14.40
1453	38 16 2	112 29 17	5.92	42.30
1460	38 39 38	112 33 17	2.84	9.59
1461	38 38 26	112 33 37	3.05	12.10
1462	38 38 40	112 36 0	3.10	13.90
1464	38 37 58	112 35 23	3.08	17.60
1465	38 36 20	112 33 53	3.53	20.00
1466	38 35 49	112 33 16	3.77	21.10
1467	38 37 21	112 32 13	2.97	13.50

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
1468	38 15 52	112 27 38	7.21	27.30
1469	38 17 32	112 26 55	12.20	42.70
1470	38 18 1	112 26 57	12.70	40.70
1471	38 18 7	112 28 5	9.77	36.60
1473	38 17 4	112 29 8	9.36	42.20
1474	38 17 16	112 25 15	7.32	28.60
1476	38 16 22	112 25 43	3.18	13.00
1477	38 18 9	112 23 8	12.20	35.30
1478	38 17 29	112 23 52	5.87	31.90
1479	38 17 26	112 23 52	3.87	24.80
1480	38 17 33	112 24 0	8.76	41.30
1482	38 19 42	112 26 1	19.50	28.20
1505	38 16 59	112 32 58	4.60	21.90
1506	38 19 25	112 32 35	5.81	26.50
1509	38 21 3	112 33 48	8.86	28.80
1512	38 23 9	112 34 0	10.70	39.10
1513	38 23 46	112 34 7	8.04	31.30
1514	38 24 11	112 33 26	11.70	39.10
1517	38 21 2	112 32 35	13.00	52.70
1518	38 21 42	112 32 3	9.23	26.20
1519	38 22 30	112 31 20	7.44	37.80
1521	38 22 13	112 30 55	18.30	43.70
1522	38 22 28	112 30 36	13.00	45.80
1524	38 22 52	112 29 38	12.30	56.30
1525	38 22 45	112 30 19	23.30	48.40
1526	38 23 0	112 30 58	8.61	40.00
1527	38 23 7	112 31 6	7.63	35.20
1528	38 23 44	112 30 15	25.90	47.50
1529	38 23 43	112 29 39	12.50	45.50
1531	38 23 27	112 30 33	15.70	37.30
1533	38 23 56	112 29 13	81.40	14.00
1535	38 24 56	112 29 41	14.10	38.90
1537	38 25 13	112 29 10	26.90	46.50
1539	38 25 20	112 28 50	20.20	42.50
1540	38 25 40	112 29 3	9.31	53.50
1541	38 25 54	112 29 4	11.30	47.50
1543	38 25 9	112 29 57	9.34	41.30
1545	38 25 21	112 28 12	43.40	52.80
1547	38 25 49	112 28 37	9.43	40.60
1548	38 25 52	112 28 21	8.01	29.70
1549	38 25 50	112 28 17	9.42	40.60
1553	38 24 57	112 30 3	32.40	65.50
1554	38 25 6	112 30 21	22.70	57.50
1555	38 25 24	112 30 23	9.58	44.90
1556	38 25 11	112 30 31	11.90	54.50

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
1557	38 25 42	112 30 55	15.50	45.40
1558	38 27 10	112 30 35	21.50	52.00
1559	38 26 55	112 30 42	11.30	64.60
1564	38 25 11	112 34 52	4.64	33.20
1566	38 27 4	112 34 42	6.29	27.50
1567	38 27 7	112 34 18	4.57	12.00
1568	38 26 54	112 34 1	3.93	16.30
1569	38 26 59	112 33 35	4.26	15.70
1571	38 27 27	112 32 22	5.16	12.90
1573	38 27 23	112 32 36	3.72	14.80
1575	38 27 49	112 34 43	4.83	19.10
1576	38 21 23	112 22 53	6.64	24.80
1580	38 23 26	112 23 2	4.28	13.60
1584	38 24 54	112 23 22	28.30	56.30
1585	38 24 52	112 23 20	8.26	30.90
1586	38 25 41	112 23 20	7.40	39.30
1587	38 25 38	112 23 38	73.50	16.10
1588	38 25 53	112 22 56	9.06	61.80
1591	38 25 46	112 22 42	11.30	27.90
1592	38 16 52	112 34 4	5.23	34.70
1593	38 16 22	112 33 27	2.53	13.00
1594	38 27 31	112 15 45	11.40	51.20
1595	38 27 30	112 17 17	7.76	33.40
1598	38 29 15	112 19 54	26.60	43.80
1666	38 40 48	112 12 3	3.01	16.10
1667	38 41 56	112 13 56	3.43	17.80
1668	38 34 3	112 7 41	8.93	29.50
1670	38 36 55	112 9 47	6.01	26.90
1672	38 33 28	112 11 4	5.93	29.10
1673	38 32 6	112 8 15	7.68	35.90
1674	38 30 53	112 8 29	4.46	18.60
1675	38 30 56	112 10 31	9.11	33.90
1676	38 31 11	112 11 52	12.80	45.00
1677	38 30 20	112 14 3	8.43	42.60
1678	38 32 13	112 14 34	1.92	9.08
1679	38 32 18	112 12 44	4.17	20.80
1680	38 34 10	112 13 34	1.65	7.46
1681	38 35 55	112 13 19	2.79	14.50
1682	38 34 48	112 14 52	1.88	9.50
1683	38 34 47	112 14 55	2.07	14.30
1684	38 34 44	112 14 56	2.21	14.00
1685	38 35 59	112 15 29	4.97	25.90
1686	38 36 18	112 16 53	5.63	27.90
1687	38 37 48	112 15 4	3.20	16.50
1689	38 40 15	112 16 10	3.00	14.50

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
1698	38 41 30	112 19 22	2.73	17.20
1699	38 42 21	112 17 23	3.12	13.00
1702	38 37 58	112 26 58	3.46	13.20
1703	38 39 42	112 25 24	3.66	14.90
1705	38 40 5	112 23 51	3.69	10.60
1706	38 40 7	112 23 54	2.47	8.74
1707	38 40 9	112 23 42	2.70	16.40
1708	38 39 38	112 23 38	3.21	14.70
1709	38 38 14	112 23 53	2.75	14.30
1710	38 37 55	112 23 47	3.62	15.30
1711	38 40 12	112 26 40	4.19	14.00
1713	38 38 57	112 28 13	6.93	3.64
1714	38 41 21	112 27 25	3.10	17.80
1715	38 41 44	112 28 9	2.49	6.20
1718	38 42 11	112 24 22	2.70	16.20
1720	38 35 45	112 28 38	4.25	12.50
1721	38 36 10	112 26 39	3.86	15.60
1722	38 35 21	112 27 22	2.45	14.00
1723	38 32 37	112 28 19	7.22	32.10
1724	38 32 48	112 26 54	5.89	28.90
1725	38 32 19	112 26 44	7.80	42.40
1726	38 34 29	112 25 16	3.37	12.50
1727	38 34 47	112 19 45	8.92	56.30
1728	38 34 9	112 19 53	5.92	26.40
1729	38 32 48	112 26 54	2.63	15.80
1730	38 32 53	112 22 16	5.40	27.00
1731	38 33 46	112 22 1	6.33	25.20
1732	38 33 35	112 23 55	3.51	19.40
1733	38 33 38	112 23 46	4.18	19.20
1734	38 33 40	112 23 45	4.24	21.10
1735	38 33 12	112 25 41	5.46	28.00
1738	38 32 38	112 23 25	5.54	30.10
1739	38 30 58	112 25 15	8.43	41.40
1740	38 31 50	112 23 26	8.17	35.60
1741	38 30 58	112 23 44	22.20	71.90
1742	38 33 53	112 17 49	4.31	19.30
1743	38 30 48	112 19 22	5.28	29.80
1744	38 31 20	112 19 9	2.43	11.40
1745	38 19 38	112 13 39	2.72	37.60
1746	38 19 39	112 13 45	2.43	14.30
1747	38 19 9	112 13 24	2.51	8.99
1749	38 18 14	112 14 16	1.86	9.55
1750	38 20 25	112 9 49	3.10	17.90
1752	38 18 10	112 9 50	1.87	10.60
1753	38 16 29	112 7 39	2.37	29.40

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
1754	38 18 20	112 8 43	2.20	9.21
1756	38 42 23	112 12 38	14.90	57.90
1760	38 29 20	112 26 26	6.26	26.90
1761	38 33 47	112 16 26	4.45	15.00
1762	38 32 11	112 16 10	2.23	10.50
1763	38 32 7	112 16 13	2.70	11.00
1764	38 32 4	112 16 22	2.72	10.80
1765	38 31 3	112 15 58	1.79	6.50
1771	38 15 19	112 10 15	1.90	10.10
1772	38 16 41	112 11 18	1.59	8.32
1773	38 17 45	112 11 38	2.12	10.30
1776	38 22 25	112 4 54	3.41	10.90
1777	38 22 25	112 4 54	1.90	6.20
1779	38 23 6	112 3 45	1.23	5.70
1780	38 23 58	112 3 6	5.96	11.00
1781	38 24 33	112 2 18	2.93	5.40
1783	38 25 2	112 2 38	6.22	21.20
1784	38 24 27	112 0 39	2.80	10.50
1785	38 24 24	112 0 42	2.90	12.00
1786	38 24 28	112 0 35	2.12	8.10
1789	38 29 21	112 0 9	8.53	39.70
1790	38 27 40	112 3 48	15.60	35.40
1791	38 29 50	112 3 29	43.30	48.00
1867	38 30 24	112 35 16	2.47	16.00
1868	38 30 20	112 35 3	2.15	18.70
1869	38 30 12	112 34 58	3.19	25.30
1870	38 30 14	112 34 21	2.16	27.20
1871	38 30 10	112 34 23	1.51	22.10
1872	38 30 11	112 34 1	3.50	25.80
1873	38 30 7	112 34 3	2.35	21.00
1874	38 30 7	112 33 48	3.07	22.10
2122	38 15 4	112 0 38	3.57	13.00
2124	38 16 38	112 0 26	1.60	7.45
2127	38 18 24	112 2 32	2.67	11.80
2128	38 17 14	112 3 30	2.96	6.70
2129	38 19 3	112 3 51	3.05	11.60
2131	38 39 20	112 14 14	2.16	14.00
2132	38 39 22	112 14 15	2.61	10.00
2133	38 39 19	112 14 14	2.70	12.00
2134	38 37 49	112 17 5	5.54	20.70
2140	38 39 50	112 29 37	3.25	14.60
2141	38 32 9	112 31 5	8.98	38.10
2142	38 33 18	112 30 13	4.25	15.80
2143	38 34 30	112 28 45	4.43	20.20
2144	38 32 21	112 28 57	9.01	31.40

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
2145	38 30 50	112 27 32	12.40	34.70
2146	38 30 59	112 21 36	15.10	37.70
2147	38 35 17	112 18 20	7.05	29.00
2148	38 35 25	112 21 35	3.90	11.00
2149	38 36 59	112 24 5	2.62	11.40
2150	38 31 59	112 35 2	3.70	17.00
2151	38 29 23	112 10 56	5.94	34.50
2152	38 21 54	112 10 54	4.84	14.60
2153	38 28 53	112 2 18	14.80	40.00
2154	38 20 58	112 4 34	3.61	7.80
2155	38 19 19	112 6 17	1.92	8.58
2301	38 28 41	112 20 36	21.40	40.00
2302	38 28 30	112 20 49	35.80	41.30
2303	38 28 32	112 20 52	46.80	11.20
2305	38 27 50	112 22 28	43.70	11.20
2307	38 27 37	112 22 19	14.60	33.70
2309	38 26 28	112 15 9	7.04	31.40
2311	38 26 23	112 18 44	4.36	17.80
2313	38 24 56	112 18 37	3.02	10.80
2314	38 25 7	112 19 19	3.61	15.70
2315	38 29 14	112 15 9	7.87	47.00
2316	38 28 23	112 14 24	7.88	34.30
2317	38 28 52	112 13 14	5.23	23.80
2318	38 28 53	112 13 20	3.90	19.20
2319	38 28 55	112 13 19	4.34	20.60
2320	38 29 18	112 11 52	14.20	43.40
2321	38 27 0	112 12 26	3.48	10.40
2322	38 28 20	112 10 55	5.90	20.30
2323	38 27 8	112 9 59	5.21	21.70
2324	38 25 3	112 10 38	4.93	24.90
2325	38 24 14	112 11 20	4.24	21.00
2326	38 26 1	112 12 14	5.45	26.80
2327	38 23 40	112 19 12	5.25	14.70
2329	38 23 25	112 16 23	2.44	12.30
2332	38 21 51	112 19 37	4.66	19.60
2333	38 20 59	112 18 58	3.08	16.80
2334	38 22 10	112 15 29	2.48	13.00
2335	38 22 3	112 15 9	2.13	8.70
2336	38 15 59	112 15 36	.94	9.57
2337	38 17 43	112 15 41	2.35	8.80
2339	38 16 16	112 17 39	1.85	6.40
2340	38 18 17	112 17 38	2.26	5.40
2345	38 16 37	112 31 31	7.10	32.90
2346	38 17 13	112 31 8	6.09	33.20
2348	38 20 58	112 31 5	13.20	36.00

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

Sample	LATITUDE	LONGITUD	U ppm	Th ppm
2349	38 20 31	112 29 22	21.60	44.80
2350	38 20 42	112 28 54	13.60	41.70
2351	38 20 35	112 28 54	8.44	35.00
2355	38 21 4	112 27 6	8.68	29.50
2356	38 21 3	112 27 7	8.32	27.00
2376	38 29 21	112 32 13	11.10	23.90
2377	38 28 2	112 31 43	7.86	20.10
2378	38 27 59	112 31 43	12.30	27.50
2379	38 26 41	112 30 9	15.50	39.60
2381	38 28 51	112 28 1	27.40	41.40
2382	38 28 51	112 28 3	31.10	9.80
2383	38 26 45	112 28 15	29.00	42.80
2384	38 26 40	112 28 21	1.70	6.20
2385	38 26 1	112 28 11	13.70	54.80
2386	38 27 58	112 28 11	16.40	57.10
2387	38 28 2	112 25 18	15.80	32.40
2392	38 26 29	112 26 36	251.00	44.80
2394	38 27 29	112 19 2	10.10	24.90
2395	38 26 31	112 17 45	7.94	24.80
2396	38 29 29	112 35 55	9.65	27.40
2398	38 29 36	112 35 56	3.37	6.10
2399	38 18 18	112 6 44	3.01	12.50
2400	38 17 12	112 6 11	2.99	13.50
2401	38 16 15	112 6 40	2.91	12.00
2403	38 15 53	112 4 5	3.38	12.40
2404	38 15 51	112 4 7	3.36	9.74
2405	38 16 14	112 3 57	4.35	17.60
2422	38 39 25	112 31 11	3.03	15.10
2423	38 36 54	112 30 54	3.07	14.80
2424	38 32 22	112 20 22	22.10	27.20
2425	38 39 32	112 2 16	3.30	12.40
2426	38 38 14	112 5 1	4.22	19.50
2427	38 35 33	112 3 21	4.66	16.10
2428	38 34 41	112 3 22	6.11	19.70
2429	38 34 48	112 3 3	23.50	28.60
2430	38 32 43	112 2 0	20.80	51.60
2431	38 30 52	112 6 20	7.99	25.40
2432	38 30 28	112 4 37	10.20	28.50
2433	38 32 58	112 6 44	5.56	21.80
2434	38 27 11	112 27 21	24.00	55.80
2435	38 27 1	112 27 20	54.40	12.60
2436	38 24 27	112 21 6	4.62	14.10
2437	38 23 41	112 22 1	6.55	18.90
2438	38 21 41	112 21 6	9.91	12.00
2439	38 19 28	112 19 32	1.99	7.91

Table 4.--Delayed neutron analyses of uranium and thorium in the less than 180 micrometer fraction of stream sediments, Tushar Mountains and adjoining areas, Utah--continued

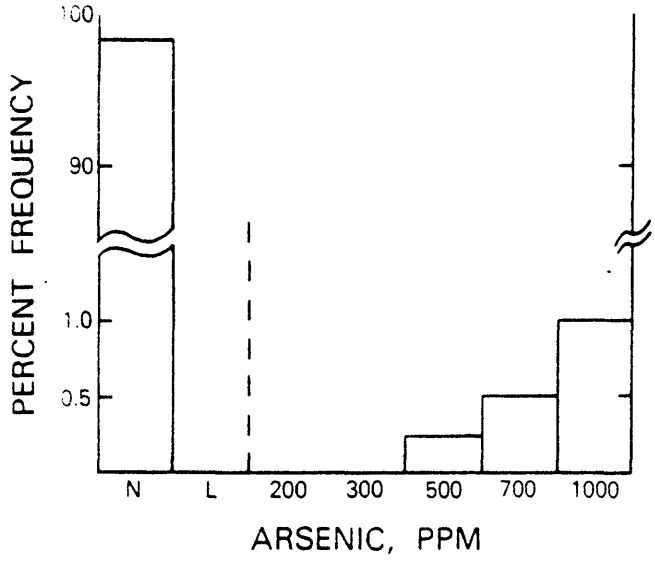
Sample	LATITUDE	LONGITUD	U ppm	Th ppm
2440	38 19 57	112 17 40	3.36	12.60
2441	38 19 57	112 15 2	2.26	2.87
2442	38 18 53	112 16 6	2.82	9.90
2443	38 16 51	112 19 12	1.22	5.19
2444	38 17 58	112 20 19	1.86	9.36
2445	38 16 24	112 23 42	3.01	14.90
2446	38 32 55	112 15 53	1.31	5.80
2454	38 16 24	112 23 42	1.78	8.38
2469	38 15 32	112 18 21	2.00	11.80
2601	38 40 42	112 16 15	3.60	16.00
2631	38 39 21	112 18 21	4.50	23.20
2633	38 40 1	112 19 30	3.61	12.30
2634	38 40 17	112 22 10	3.58	13.70
2636	38 37 38	112 20 15	3.39	11.80
2638	38 36 57	112 21 38	5.31	20.80
2639	38 35 47	112 22 47	4.75	22.80
2831	38 28 56	112 23 27	12.90	41.40
2832	38 29 12	112 23 20	6.03	26.90
2834	38 28 34	112 24 9	97.40	18.90
2836	38 28 59	112 23 57	7.74	25.90
2838	38 29 0	112 25 44	5.58	18.50
2839	38 29 5	112 25 54	11.40	38.20
2843	38 27 22	112 8 35	4.27	22.30
2845	38 26 30	112 8 32	6.67	46.80
2846	38 26 4	112 7 24	7.86	34.10
2847	38 24 58	112 8 20	4.20	18.70
2849	38 23 15	112 10 55	4.74	17.90
2851	38 21 30	112 2 31	2.28	9.99
2853	38 20 10	112 0 28	1.76	9.04
2854	38 19 25	112 0 14	2.17	10.90
2855	38 18 34	112 0 40	1.47	10.10

Table 5.-- Statistical summary of the 6-step semiquantitative spectrographic analysis of the nonmagnetic fraction and magnetic fraction of heavy mineral concentrates and the less than 180 µm fraction of stream sediments, from the Tushar Mountains and adjoining areas Utah (--, indicates no data)

Element	Nonmagnetic Fraction				Magnetic Fraction				Less Than 180 µm Fraction of Stream Sediments			
	Minimum	Maximum	Geometric Mean	Geometric Deviation	Minimum	Maximum	Geometric Mean	Geometric Deviation	Minimum	Maximum	Geometric Mean	Geometric Deviation
Fe	0.2	50	3.56	2.18	3	> 50	25.3	1.72	0.7	20	3.02	1.96
Mg	0.1	10	1.22	3.16	0.1	10	1.84	2.75	0.1	5	0.79	2.00
Ca	0.15	30	4.28	2.46	0.1	10	1.97	2.18	0.07	7	1.0	2.10
Ti	0.2	> 5	1.66	2.17	0.3	> 2	2.20	1.54	0.07	> 1	0.49	1.69
Mu	200	10000	1935	2.30	300	> 10000	4823	2.24	200	> 5000	1160	1.44
Ag	< 1	70	0.39	2.22	< 0.7	70	0.44	1.95	< 0.5	3	0.89	1.77
As	< 500	1000	154	1.26	< 500	2000	160	1.44	---	---	---	---
B	< 20	5000	55.2	2.66	< 10	1000	23.8	1.99	< 10	500	49	1.86
Ba	< 50	> 10000	1186	4.04	50	10000	529	2.26	50	2000	564	1.91
Be	< 2	100	3.29	2.88	< 2	150	3.42	3.00	< 1	50	3.74	2.32
Bi	< 15	> 2000	9.01	2.03	< 70	100	7.72	1.20	< 20	20	---	---
Co	< 10	150	11.6	2.18	< 10	200	62.7	2.18	< 5	50	13.9	1.77
Cr	< 20	5000	210	3.62	20	3000	2934	2.27	< 10	700	57.1	2.29
Cu	< 7	1000	16.5	2.61	10	1000	70.4	2.00	< 5	70	26.3	1.88
La	< 50	> 20000	447	2.11	< 50	> 2000	214	2.47	< 20	500	61.4	1.51
Mo	< 7	300	6.78	2.42	< 7	300	8.87	3.03	< 5	30	6.8	1.59
Nb	< 50	> 1500	97.6	2.42	< 50	> 5000	70.1	2.98	< 20	100	31.2	1.53
Ni	< 20	700	15.6	4.04	< 10	500	54.2	2.87	< 5	150	21.6	1.99
Pb	< 20	> 5000	84.8	4.84	< 20	10000	119	3.53	< 10	300	47.3	1.62
Sc	---	---	---	---	---	---	---	---	< 5	70	12.2	1.51
Sn	< 15	>2000	32.9	5.82	< 20	700	11.1	2.76	< 20	50	31.6	1.91
Sr	< 200	>10000	562	2.49	< 200	5000	201	1.93	< 100	1500	405	1.82
V	< 30	5000	165	1.96	100	2000	509	1.73	< 10	700	134	2.14
W	< 70	700	36.8	1.26	< 70	2000	35.8	1.27	---	---	---	---
Y	30	>5000	319	2.48	1.5	1000	109	1.82	20	150	39.6	1.45
Zn	< 300	1500	192	1.80	< 300	5000	354	2.36	< 200	700	262	1.48
Zr	< 300	>2000	241	1.99	50	> 2000	492	2.29	100	1000	259	1.61
Th	< 150	>5000	183	3.18	< 150	700	78.9	1.25	---	---	---	---

Table 6.--Statistical summary of the delayed neutron activation analyses of U and Th in the less than 180 μm fraction of stream sediments, Tushar Mountains and adjoining areas, Utah. H. T. Millard, analyst.

Element	Minimum	Maximum	Geometric Mean	Geometric Deviation
U	0.94	251	5.67	2.32
Th	2.87	91.9	2.07	1.85



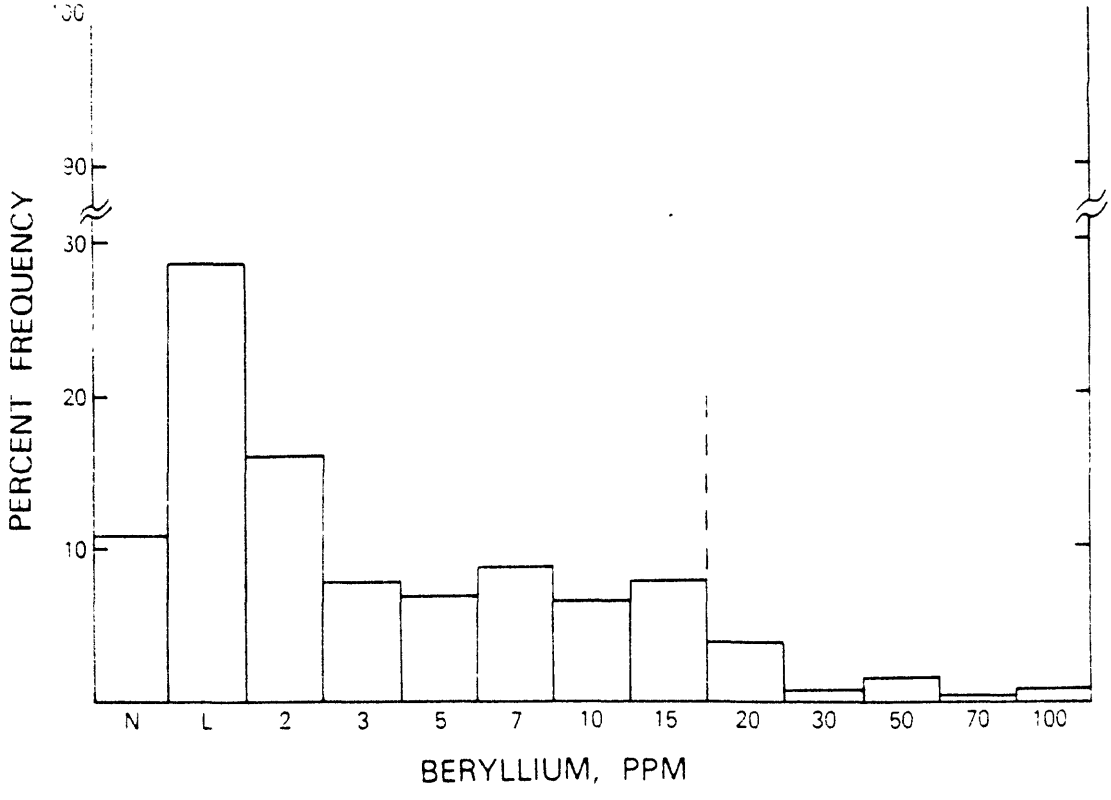


Figure 1.--Histogram of selected trace elements in the nonmagnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah. Dashed line divides anomalous concentrations from background values.

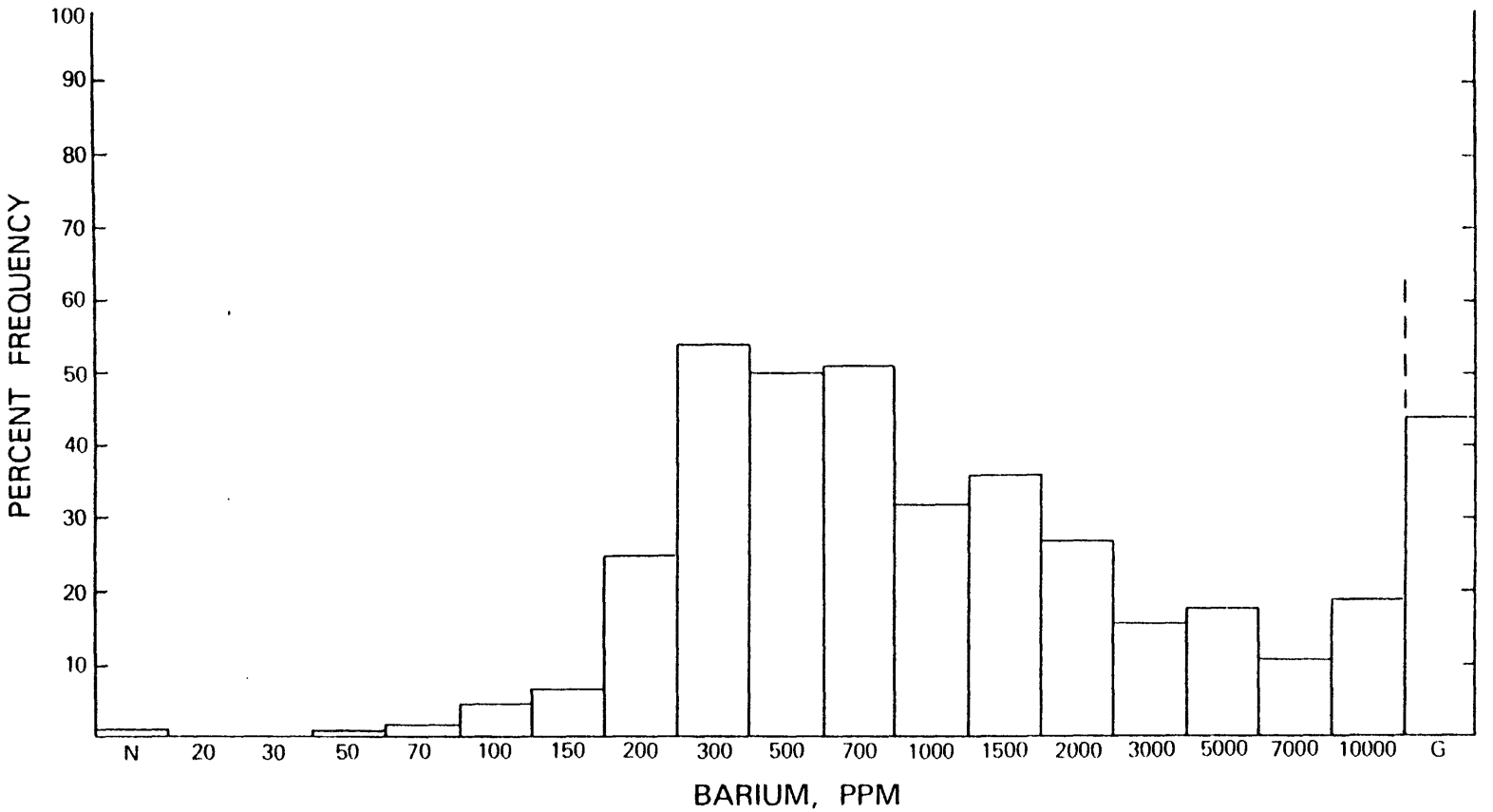


Figure 1--continued

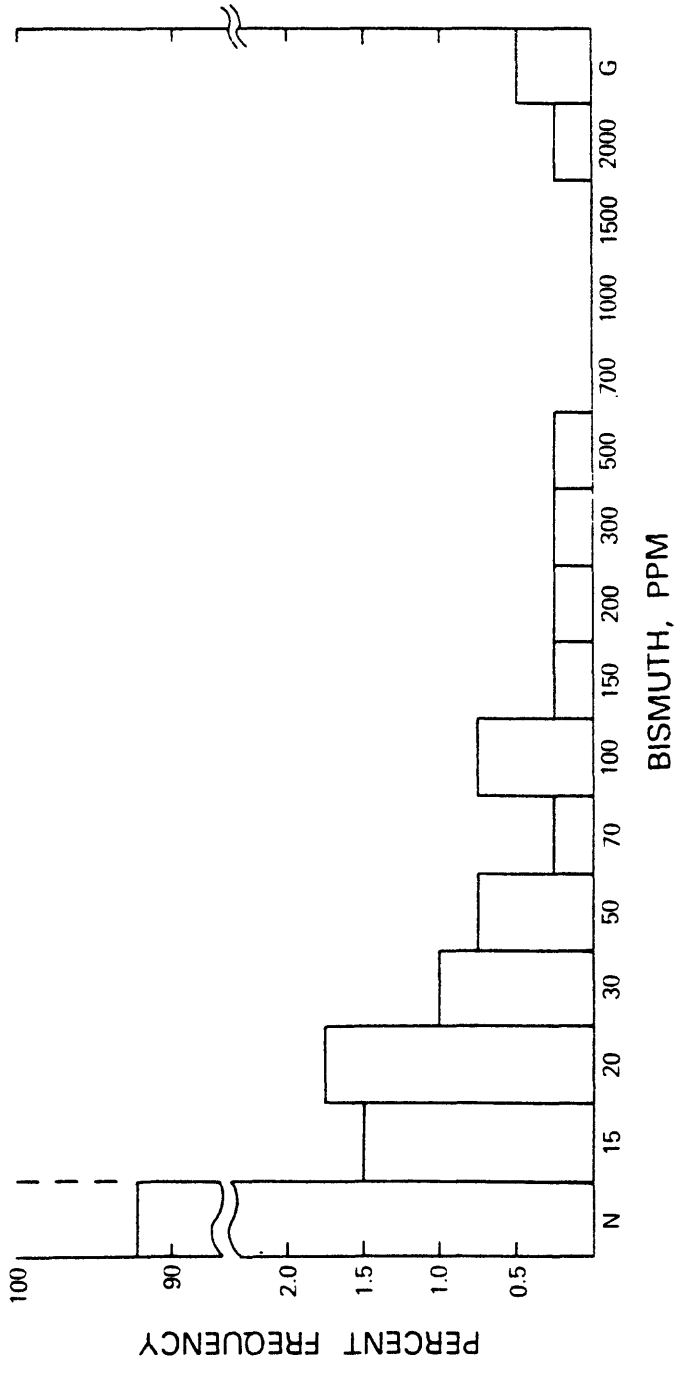
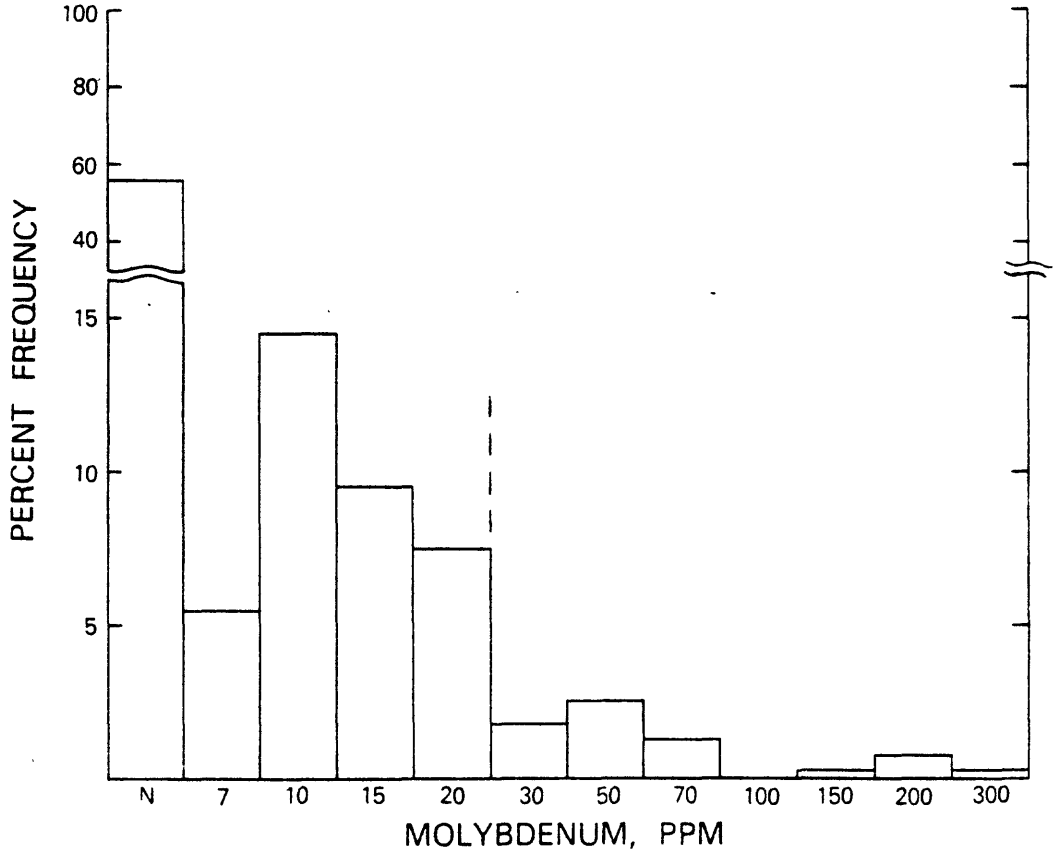


Figure 1--continued



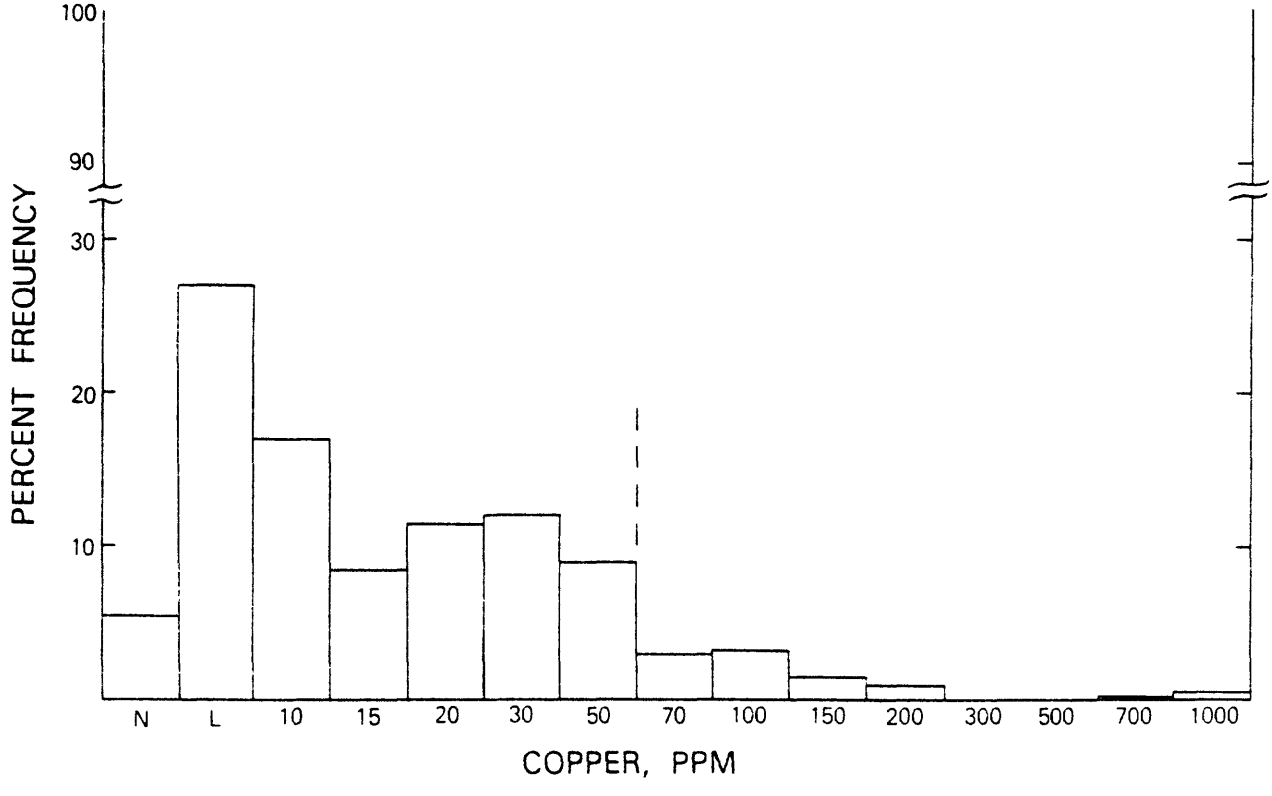
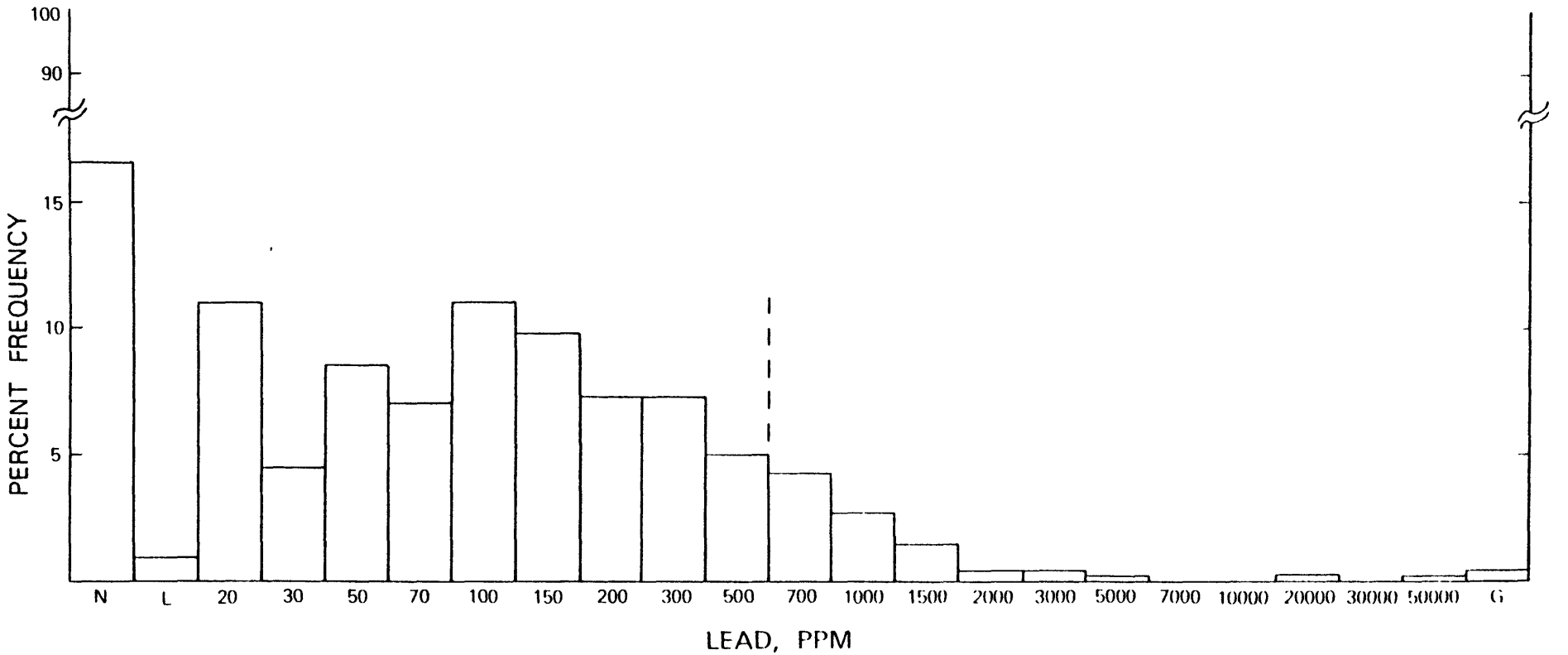


Figure 1--continued



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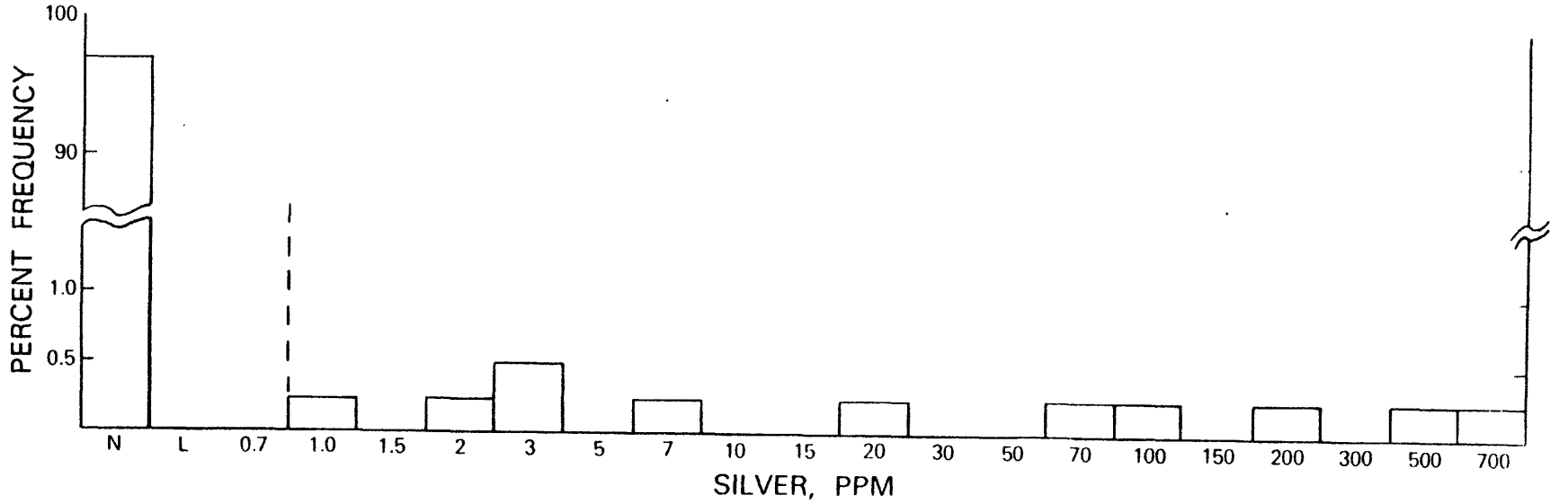

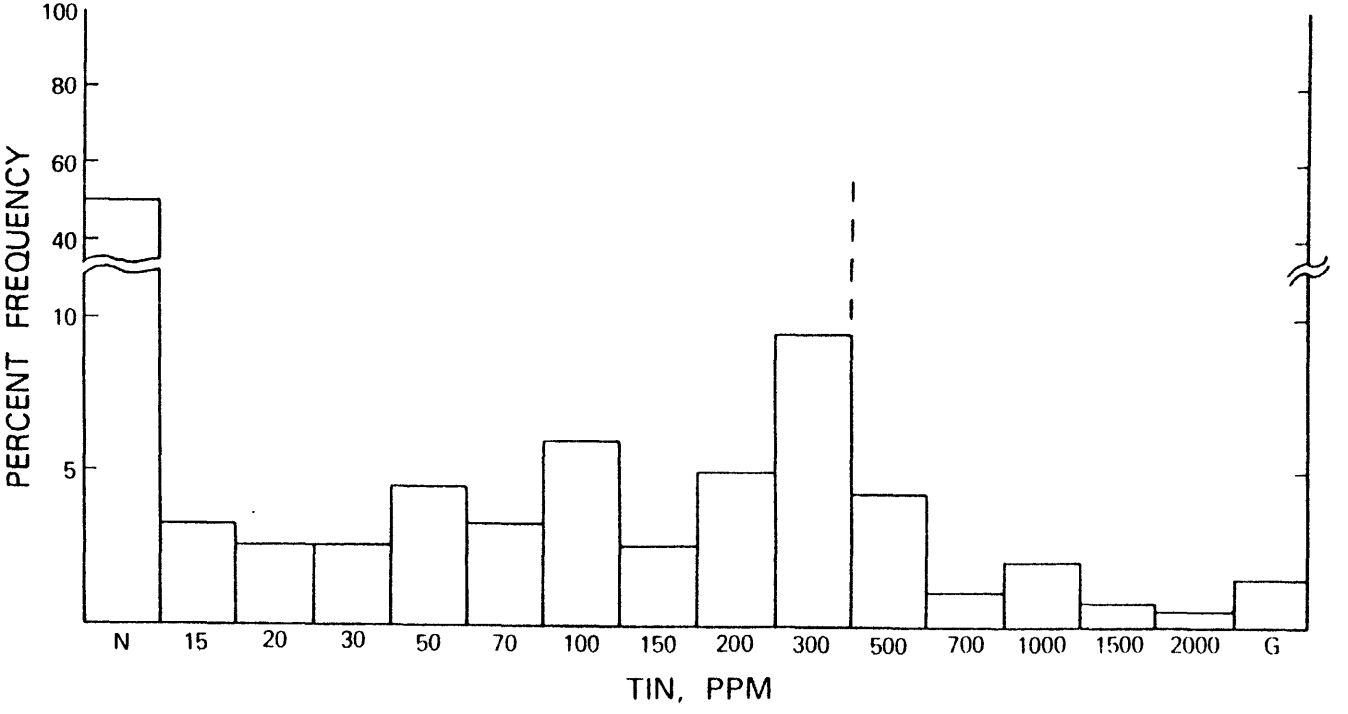

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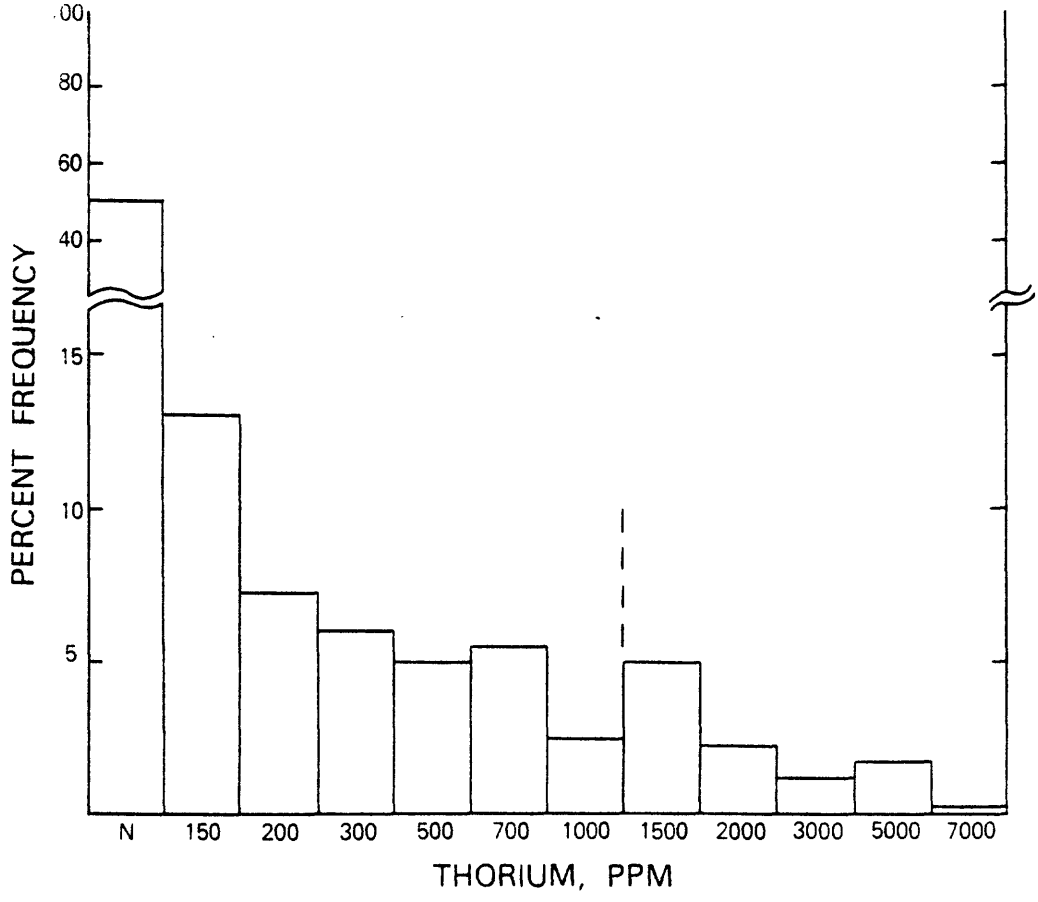

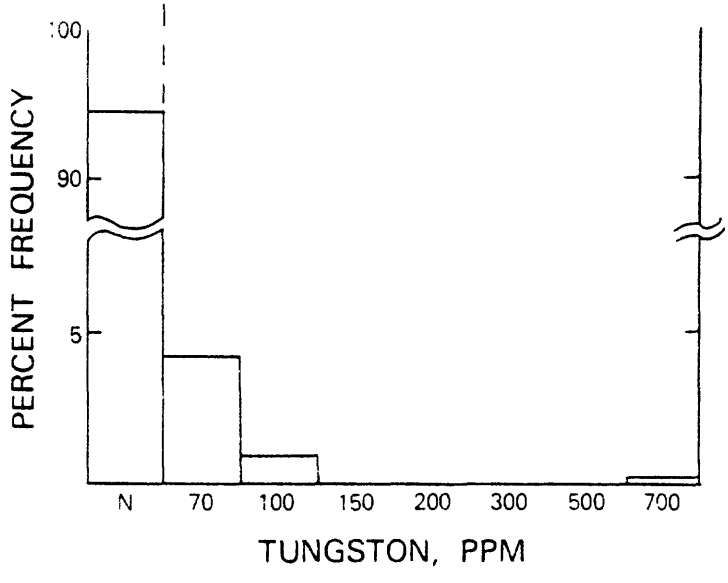

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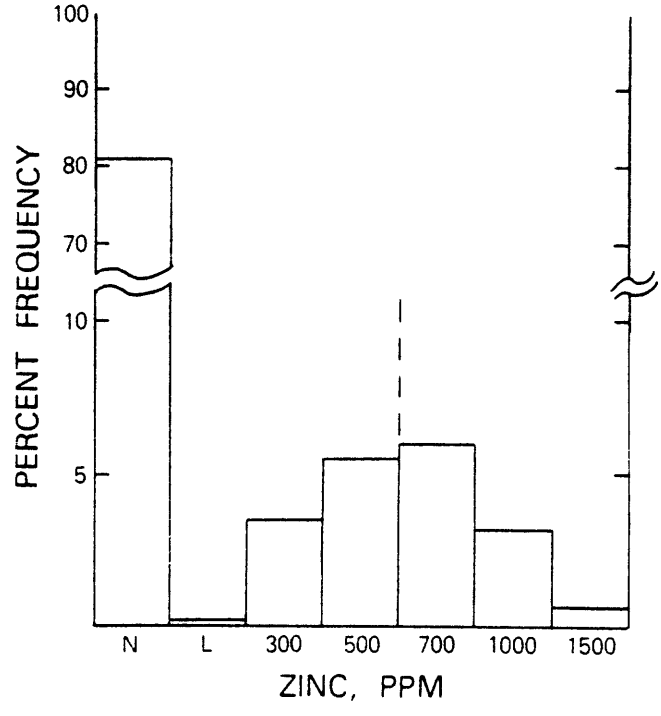

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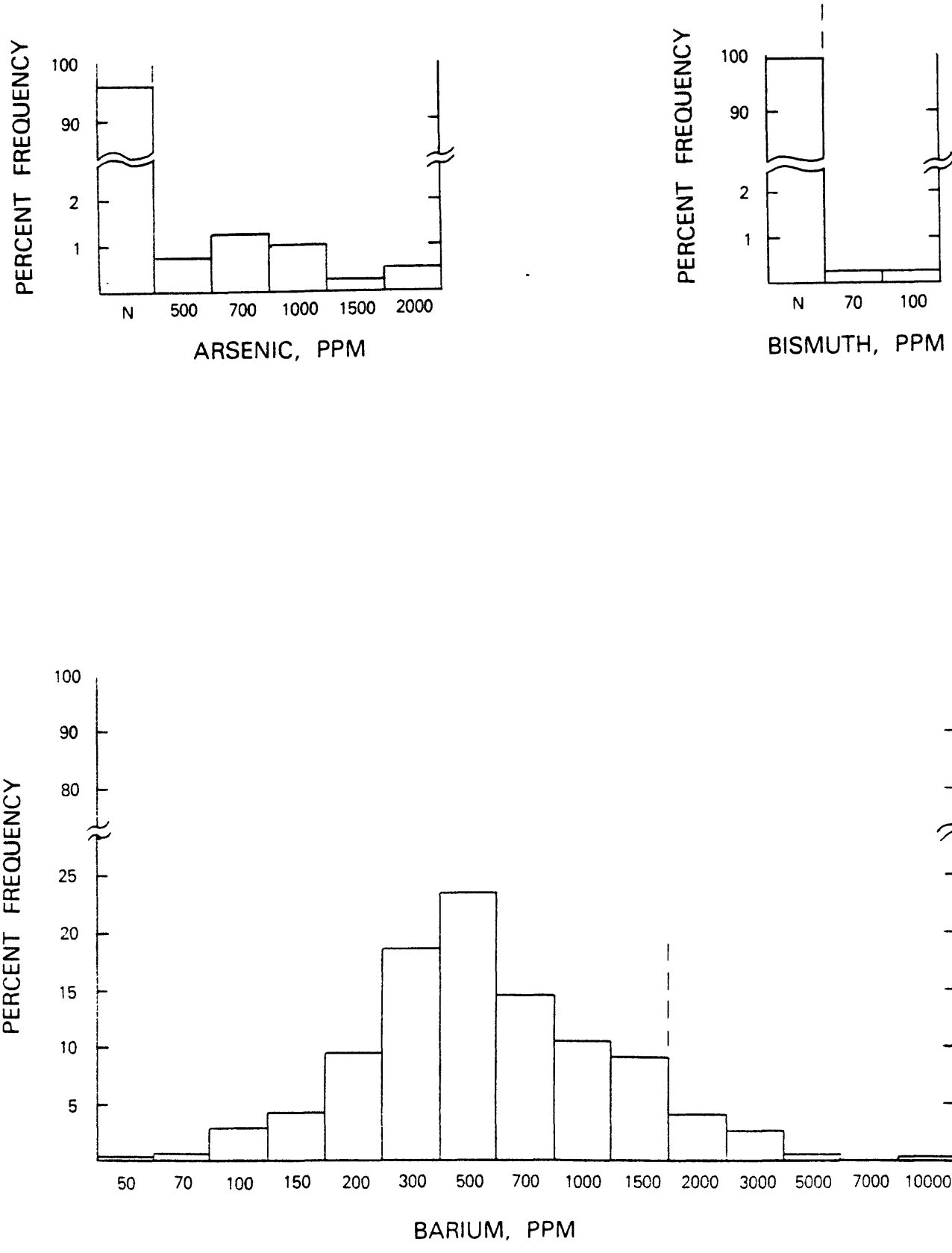
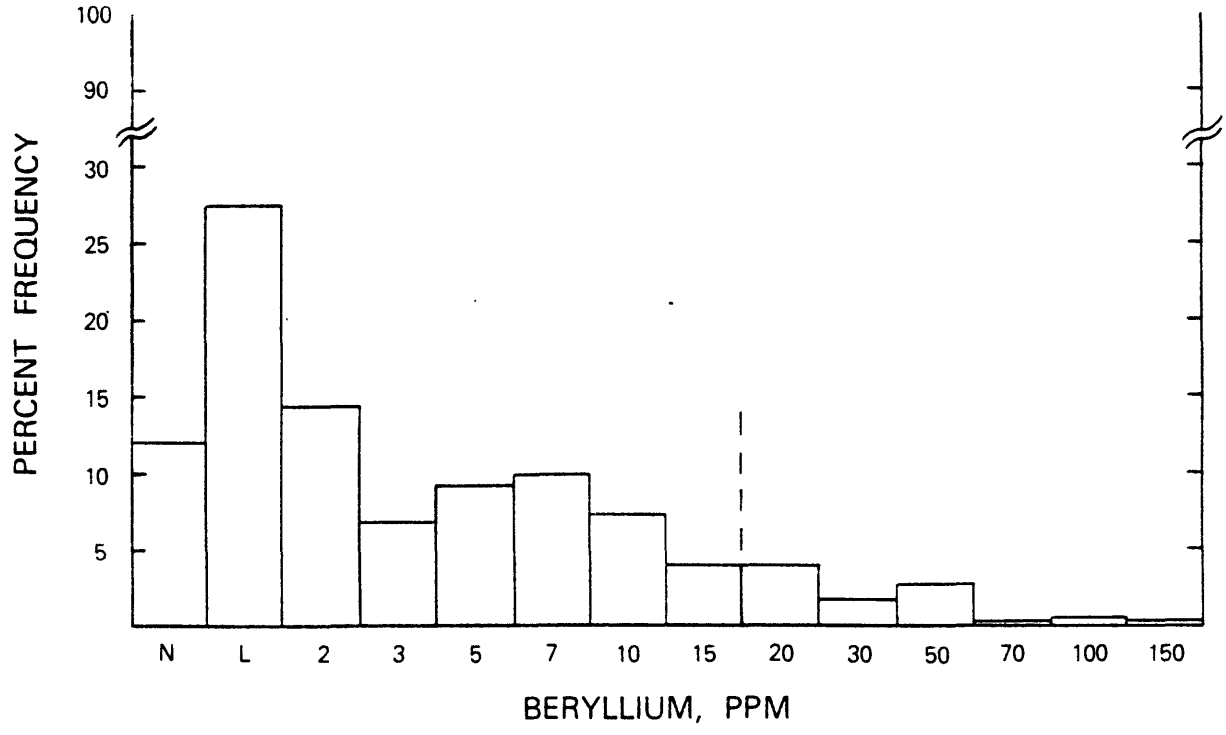


Figure 2.--Histogram of selected trace elements in the magnetic fraction of heavy mineral concentrates of stream sediments, Tushar Mountains and adjoining areas, Utah. Dashed line divides anomalous concentrations from background values.



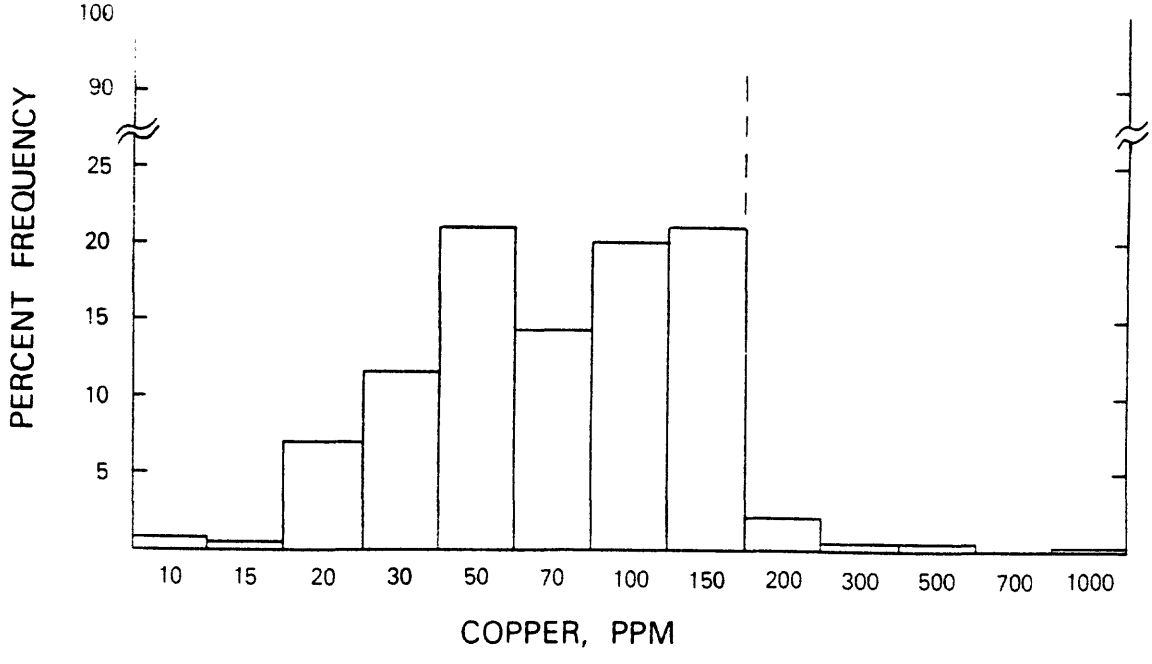
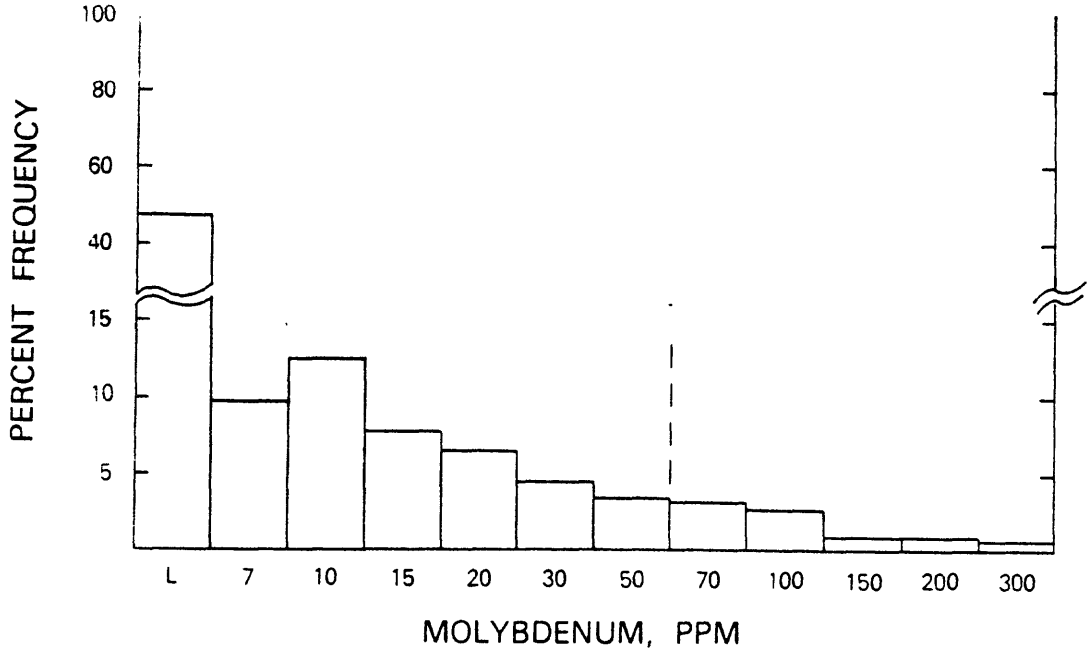


Figure 2--continued



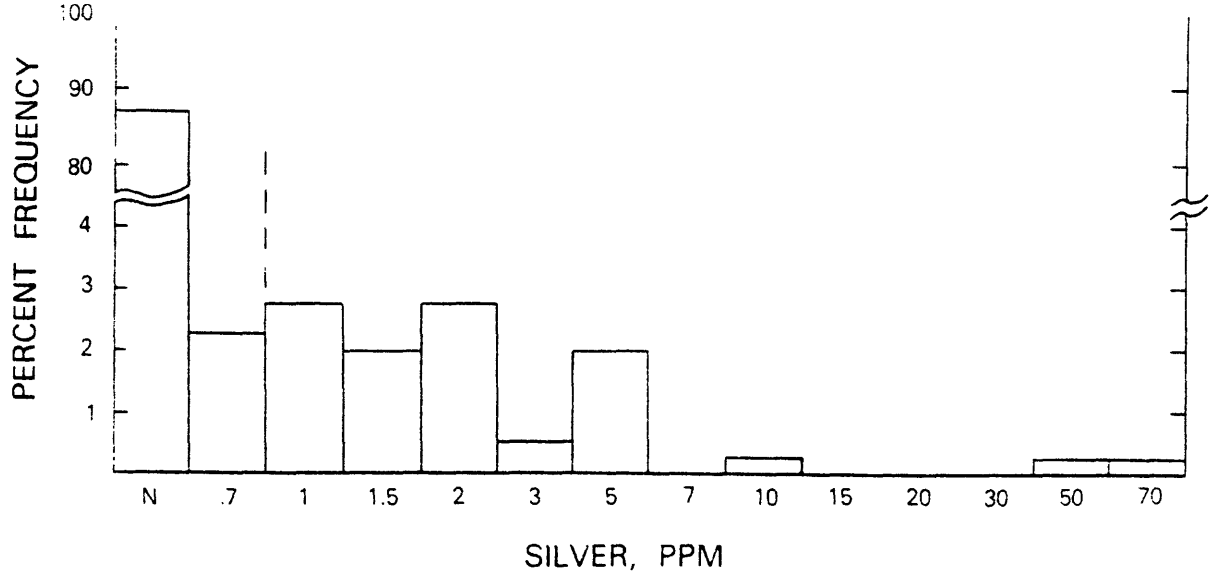
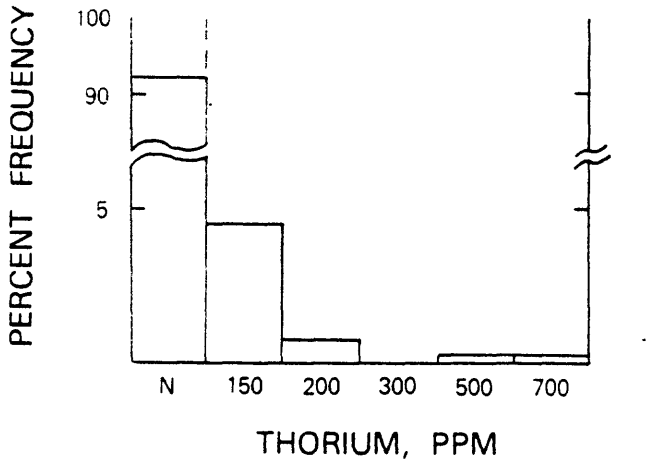
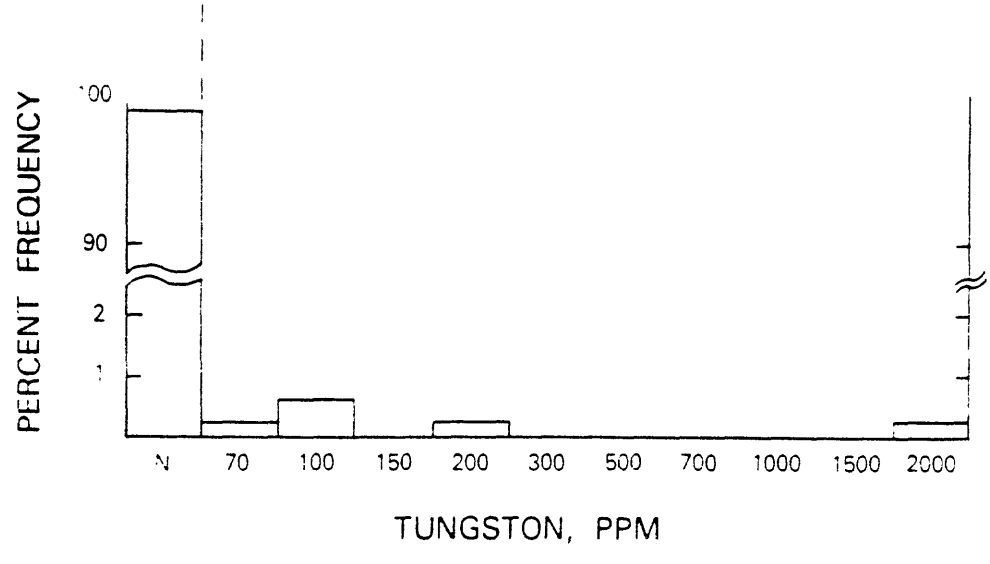


Figure 2--continued





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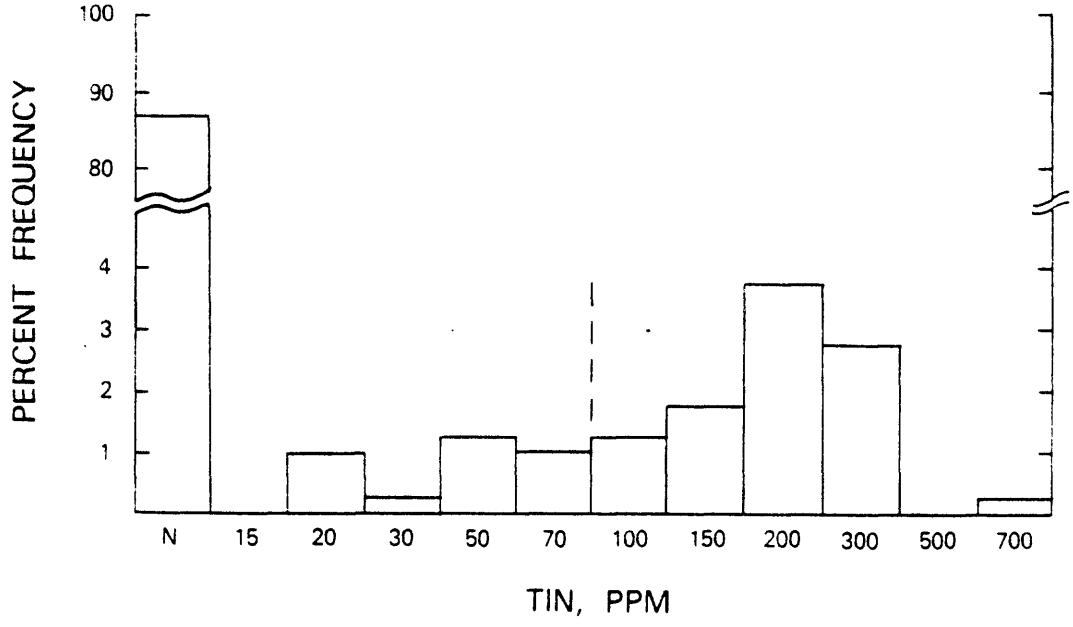

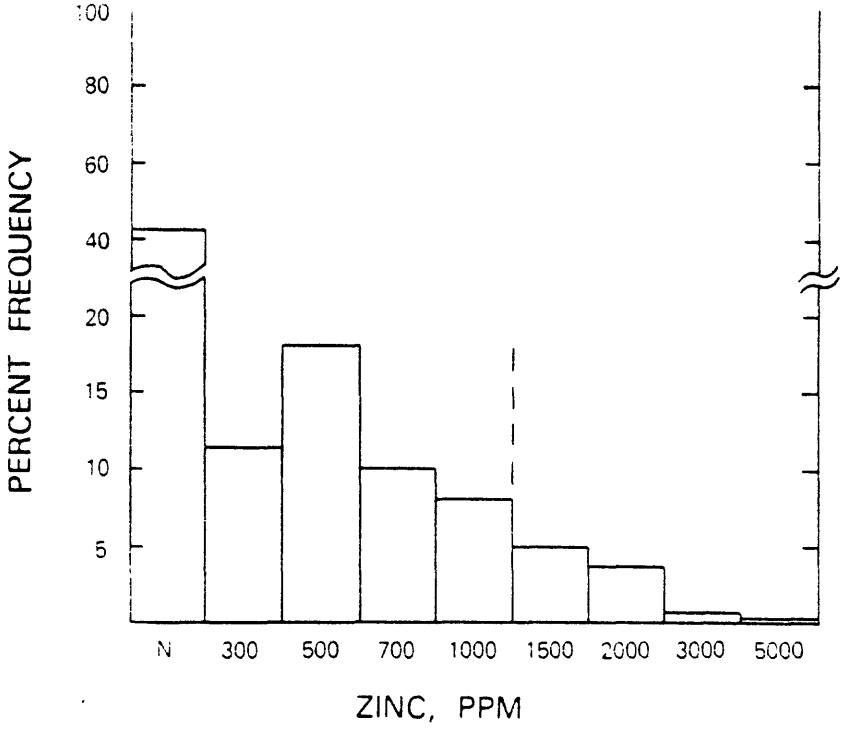

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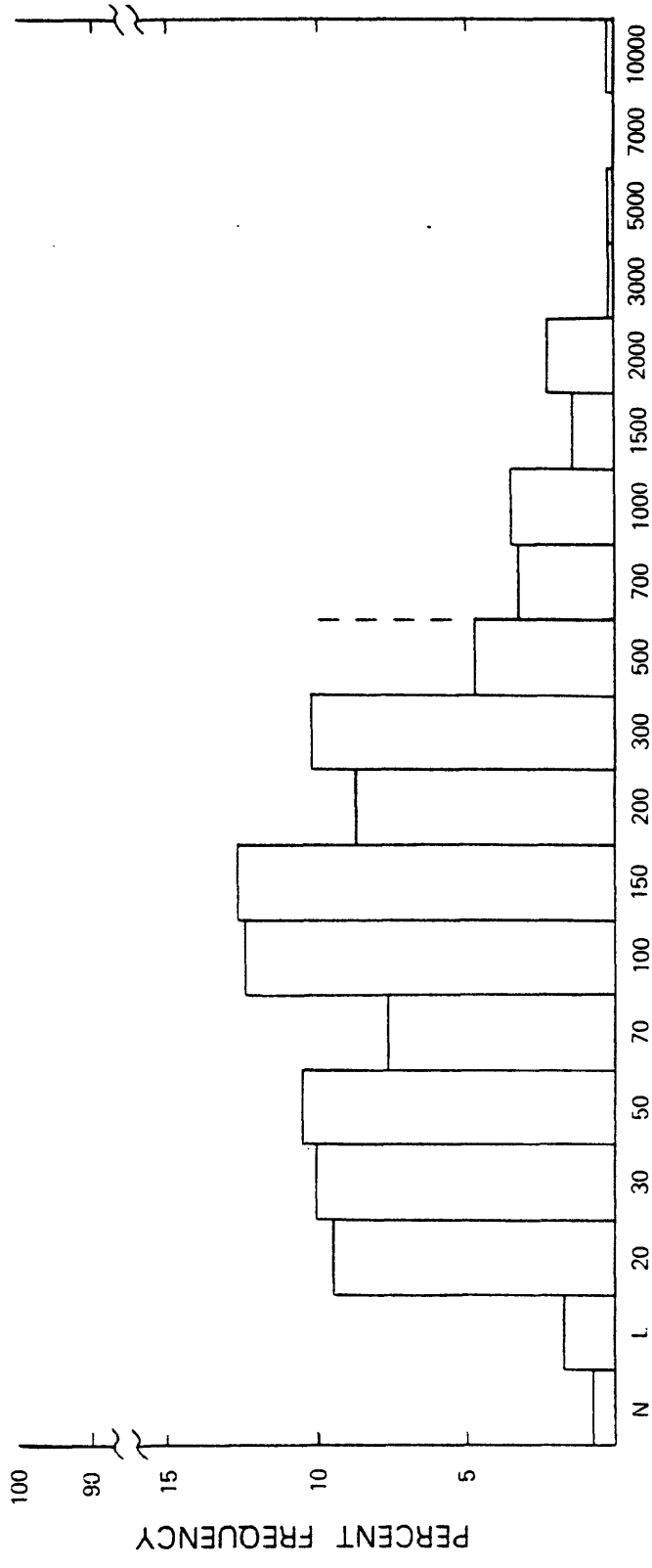

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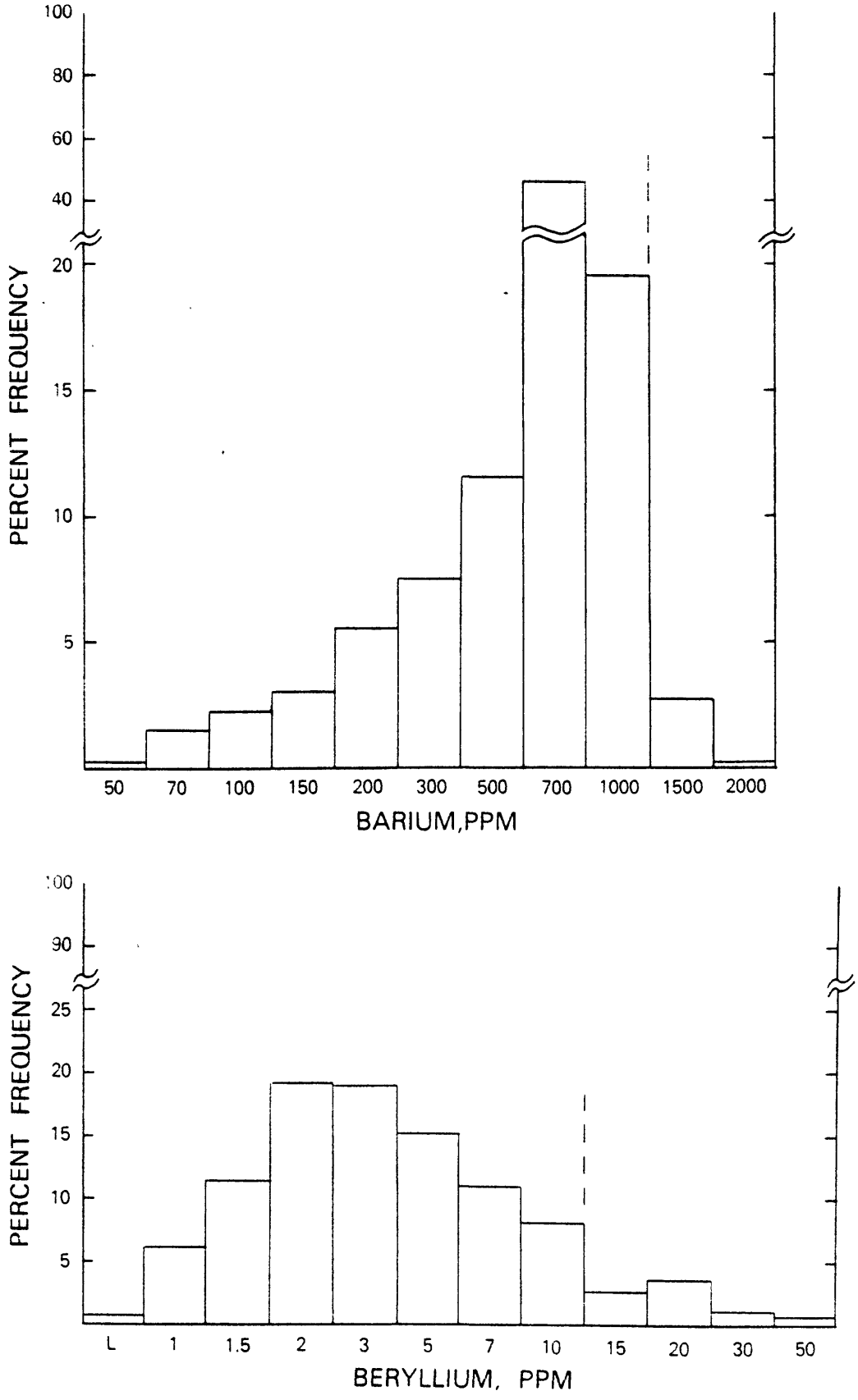


Figure 3.--Histogram of selected trace elements in the less than 180 µm fraction of stream sediments, Tushar Mountains and adjoining areas-Utah. Dashed line divides anomalous concentrations from background values.

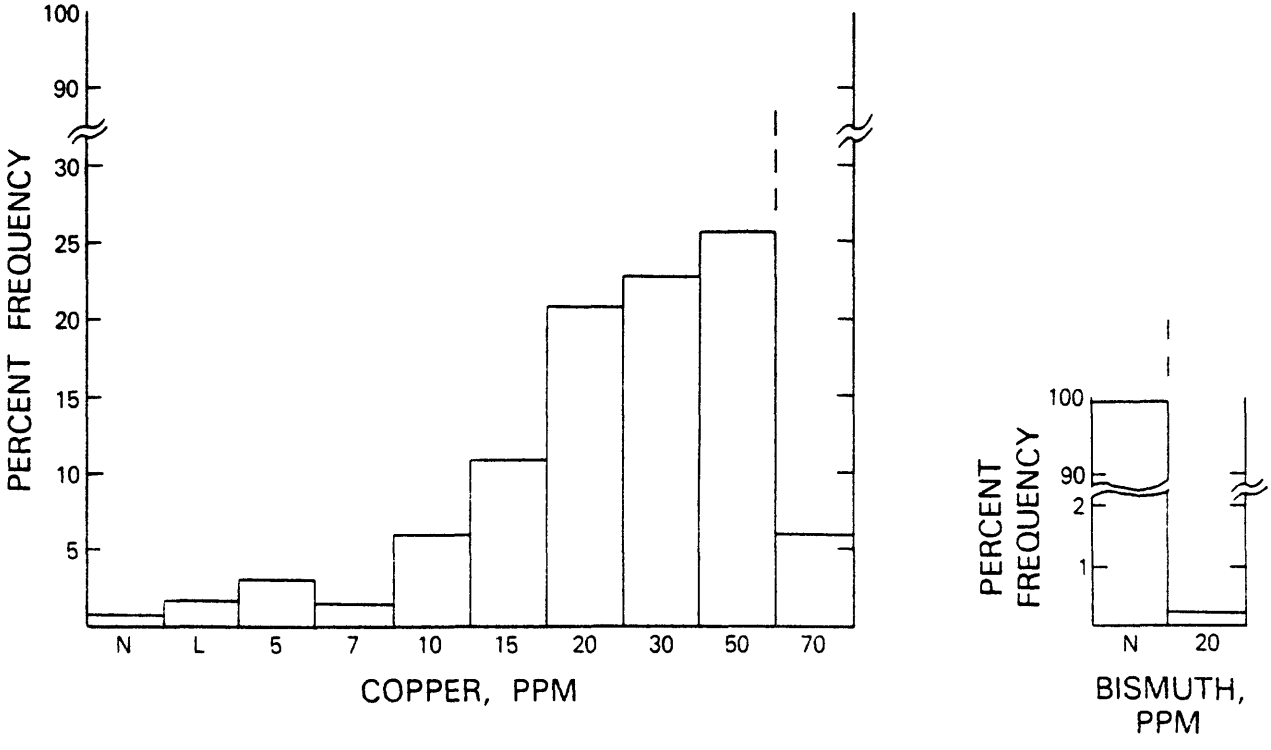
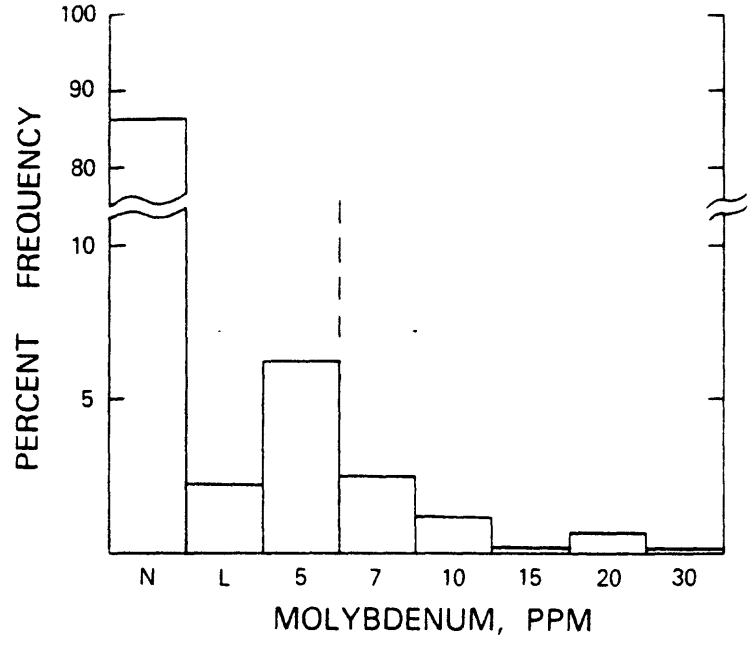
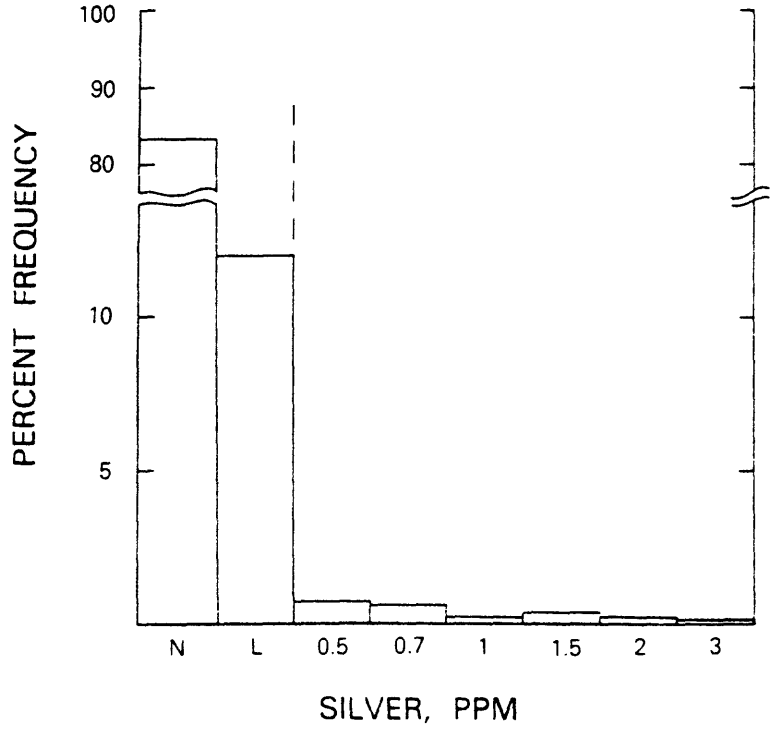


Figure 3--continued





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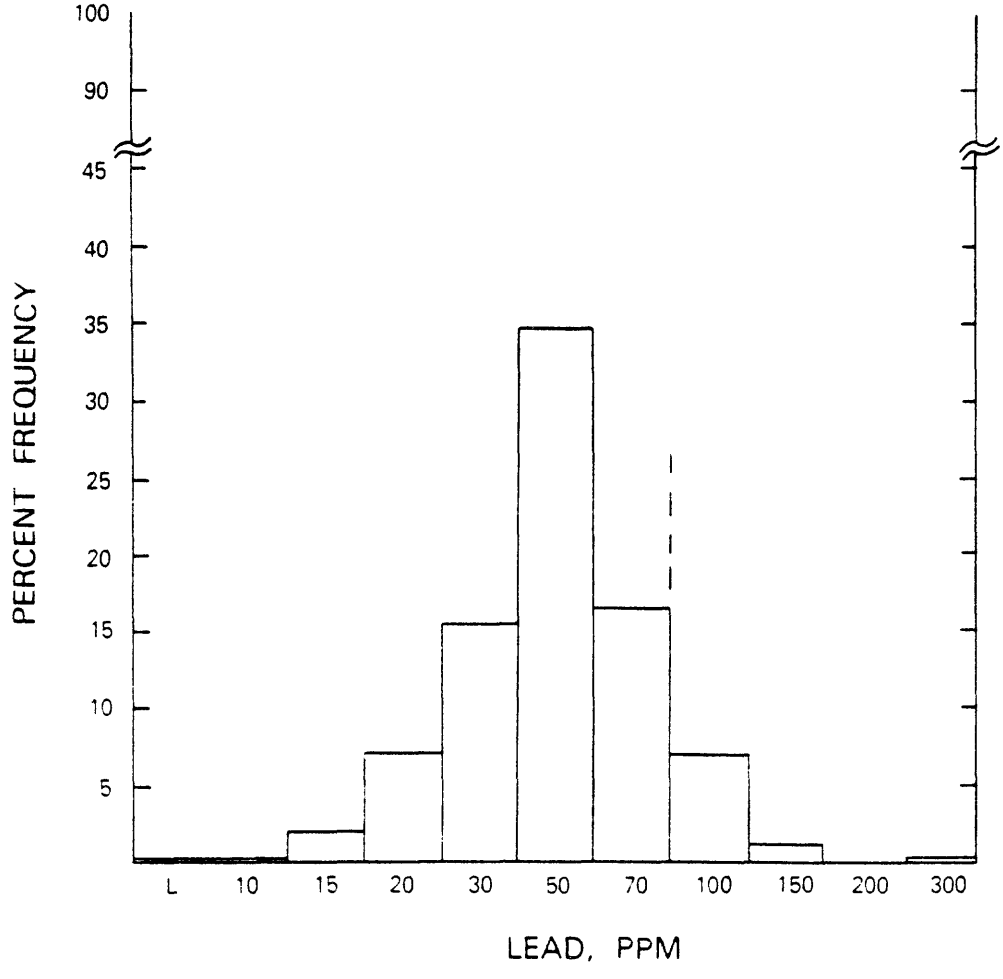

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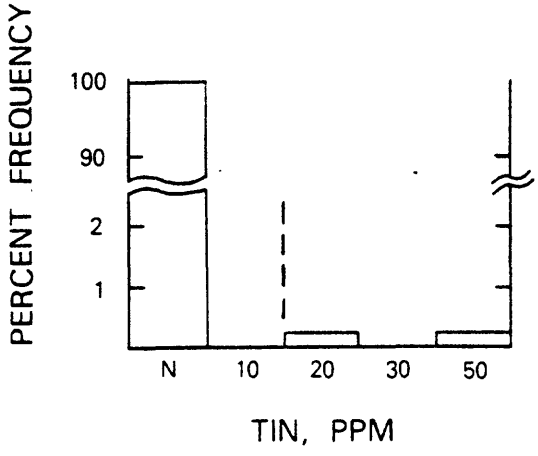

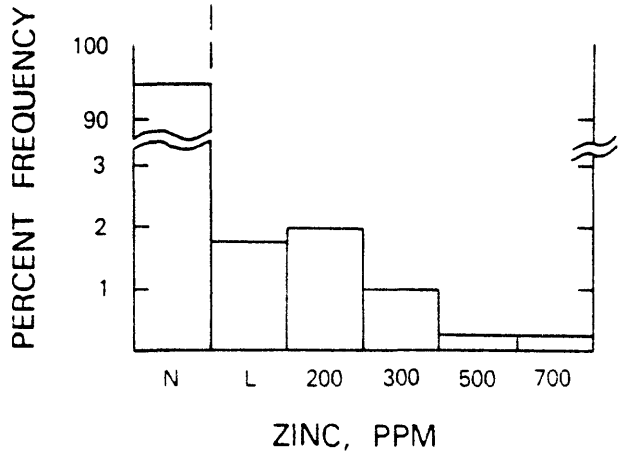

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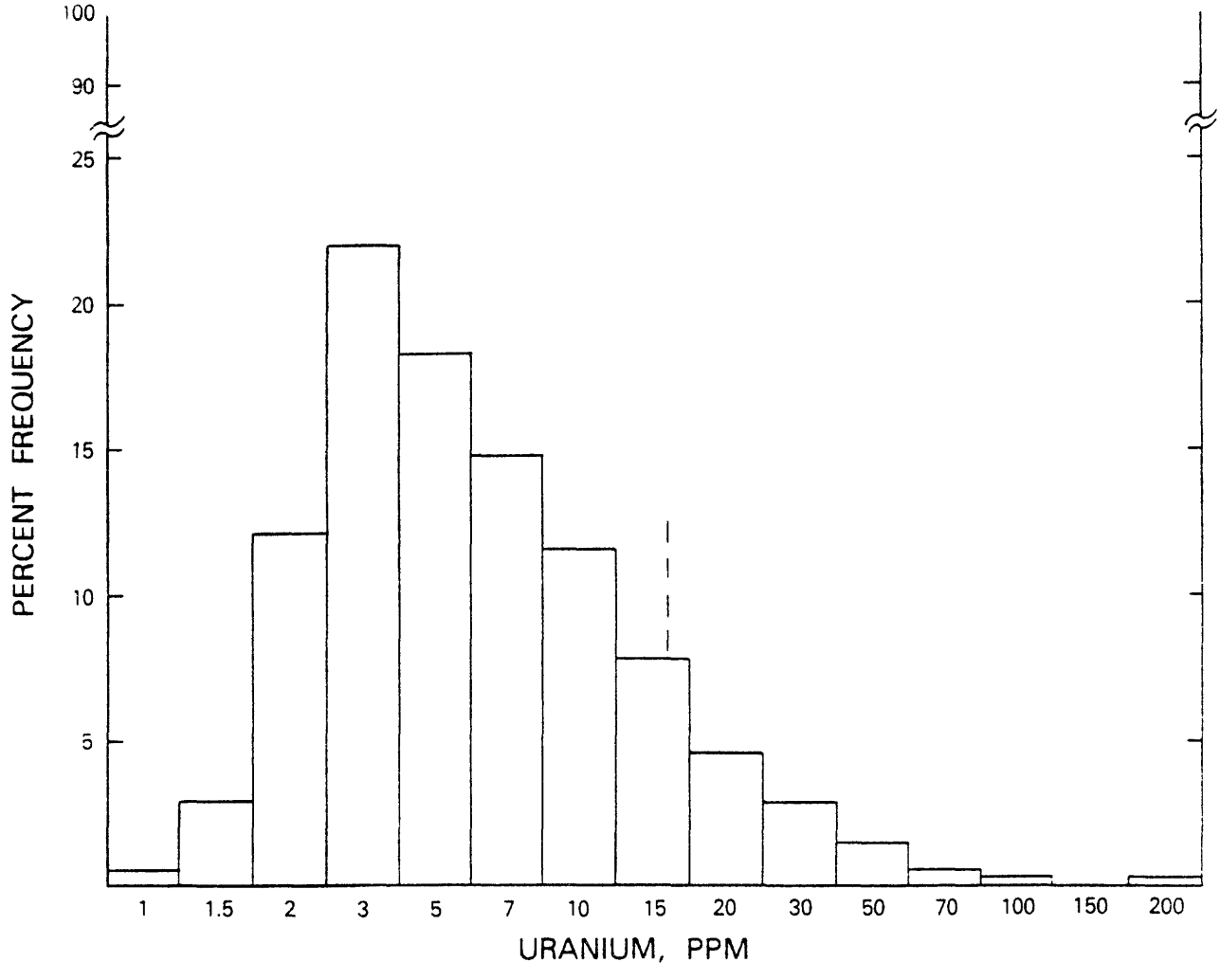

Figure 3--continued

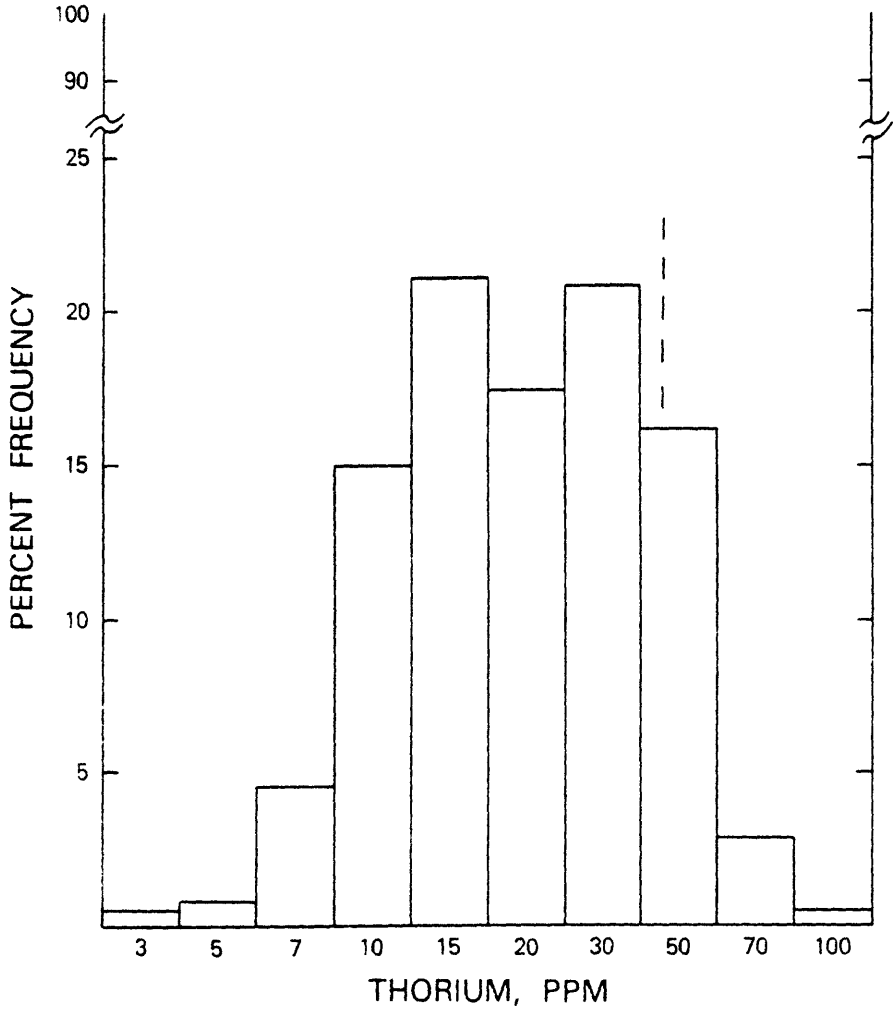

Figure 3--continued

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