

UNITED STATES DEPARTMENT OF THE INTERIOR
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**Statistical analysis, and listing of spectrographic analyses
of alluvial heavy-mineral concentrates and sieved stream-sediment samples,
Dragoon Mountains Roadless Area and contiguous areas,
Cochise County, Arizona**

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STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal Lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Dragoon Mountains Roadless Area (Forest Service number 03201) and contiguous areas for a distance of several miles, in the Coronado National Forest, Cochise County, Arizona. The Dragoon Mountains Roadless Area was classified as a further planning area during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

INTRODUCTION

This report lists and summarizes the analytical results from a regional geochemical reconnaissance of stream alluvium in the Dragoon Mountains and southern Little Dragoon Mountains, Cochise County, Arizona. The stream alluvium sampling was undertaken in the spring of 1980 and involves about 188 sample sites. Included in the area of this regional geochemical reconnaissance is the proposed Dragoon Mountains Roadless Area, which is the subject of several geochemical maps (Watts and others, 1984; Drewes, 1984), other supporting studies (Drewes and Meyer, 1983; Kreidler, in press), and a joint mineral resource assessment (Drewes and others, 1983). The data in this report supplement the results of these other studies and are the support of the geochemical maps based on stream alluvium (Watts and others, 1984).

Much of the data in this report was collected outside the boundaries of the proposed Dragoon Mountains Roadless Area and includes stream-alluvium data from below known mineral deposits. The deposits consist of vein and replacement bodies containing copper, lead, zinc, precious metals, and tungsten with minor amounts of beryllium and fluorite (Kreidler, in press; Cooper and Silver, 1964). Geochemical signatures from these areas of mineralization were used as a basis for evaluating anomalies in the proposed roadless area; they may also be used as an aid to further exploration of mineralized areas throughout these mountain ranges.

A sample locality map (plate 1) showing sample sites and identifiers (field numbers), a statistical summary of the data (table 2) and Spearman Rank correlation analyses (tables 3 and 4) are included with the analytical data (tables 5 and 6) to facilitate its use.

Location, access, and geographic setting

The Dragoon and Little Dragoon Mountains of central Cochise County are part of a group of northwest-trending ranges in southeastern Arizona. The Dragoon Mountains, where most of the geochemical sampling was done, have a broad, low southeastern part, a narrow, moderately high central part, and a broad, high northwestern part. The Dragoon Mountains Roadless Area, about 55 mi² in size, covers most of this northwestern part. The roadless area extends from Middle Pass in the southeast to Big Draw in the northwest, and from the edge of Sulphur Springs Valley in the northeast to the edge of the San Pedro River Valley in the southwest, excluding several canyon mouths and other developed areas as shown on figure 1.

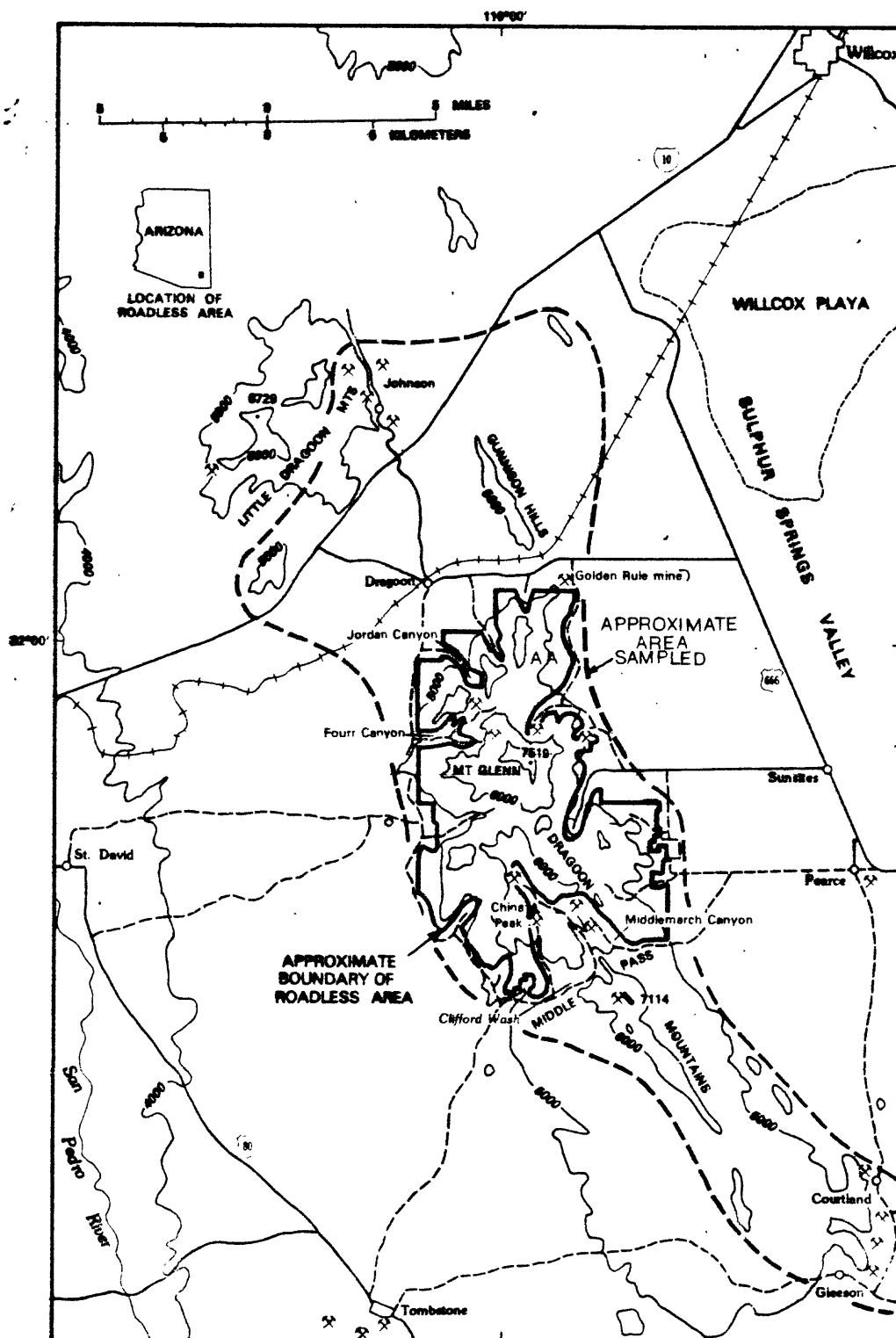


Figure 1. Index map showing area of geochemical sampling and location of the Dragoon Mountains Roadless Area

Access to the area covered by the geochemical reconnaissance is from the towns of Willcox, 15 mi northeast, or Tombstone, 10 mi southwest, or from the village of Pearce, 6 mi southeast. There are county roads across Middle Pass and past the north end of the range in a lowland also used by the Southern Pacific Railroad. Interstate Highway 10 is 5 mi north of the range and U.S. Highway 666 comes to within 6 mi of the northeast side. Additional local roads provide access to ranches and recreation areas in the lower reaches of major canyons and unmaintained roads extend into the canyons in several places.

Further access for study purposes is by foot. The core of the mountains is rugged and in places is steep and craggy. The foot of the range is at elevations of 4,500 to 5,000 ft; the highest peak, Mt. Glenn, has an elevation of 7,512 ft. The highest slopes are covered with fairly dense stands of scrubby mountain mahogany, but most of the slopes have more open stands of juniper, pinon, or oak. On the lower mountain flanks access is rarely hindered, and the vegetational cover is mostly grass, shrubs, cactus, and open stands of live oak.

SAMPLE MEDIA

Two sample types from different components of stream alluvium were used for this investigation. The first and most useful for purposes of mineral resource investigations was found to be the nonmagnetic heavy-mineral component of the stream sediment. The second sample type is the fine fraction of stream sediment (<0.18 mm).

The heavy-mineral fraction is regarded as a more useful indicator of mineralization; for most elements it usually shows high anomaly to background contrast. The high contrast is attributed to the removal of barren dilution during processing, which results in a mineral composition that reflects mineralization because it tends to isolate the various ore minerals and heavy resistant minerals related to base-, precious-, and rare-metal deposits (e.g. tin as cassiterite).

Diluents in nonmagnetic concentrates are chiefly barren, light-colored, rock accessory minerals (e.g. sphene, zircon, and apatite), whereas in sieved sediments it is clays and quartzo-feldspathic minerals and rock fragments. The rock-forming minerals and clays from the disintegrated rock found in the sieved sediments is usually in volumetrically dominant amounts and minor metallized mineral grains, and accessory minerals are in subordinate amounts. As a result, the fine sediment usually reflects background metal variations in drainage basin bedrock and provides only a weak indication of mineralization.

SAMPLE COLLECTION

Samples were usually collected from small tributaries and were collected by jeep and foot traverses along the mountain front, and in the major canyons. Samples in the major canyons were collected on side tributaries except near their head. At the canyon head, the source tributaries to the main drainage basin were sampled.

Samples for heavy-mineral concentrates consisted of about 11 lb of bulk stream sediment from active channels, collected as composite random scoops where sediment channels were wide or as a continuous, right-angle channel sample where narrow (<1 m).

Collection sites were chosen where heavy minerals accumulate in an unsorted condition as a result of sedimentation processes.

Fine-sediment samples were collected at the same time and in similar manner to the bulk sample for heavy-mineral concentration but the fine-sediment sample was much smaller (1 lb) and to avoid contamination, was collected with the hands instead of a tool.

SAMPLE PREPARATION

The nonmagnetic heavy-mineral concentrates consist of various light-colored rock accessory minerals, and ore minerals. In order to isolate these minerals from the matrix of the sample, a sequence of processing steps are involved. These steps include: (1) gold panning, (2) drying, (3) hand magnet removal of magnetite, (4) bromoform separation to remove residual diluent not released by panning, (5) electromagnetic splitting into magnetic and nonmagnetic fractions using a Frantz Isodynamic/Separator, (6) microscope scans of the nonmagnetic fraction for mineralogy and assessment of processing quality, and (7) pulverization of the nonmagnetic fraction to a fine powder in preparation for analysis.

Fine stream-sediment samples were usually dry, so preparation consisted of passing the bulk sample through a stainless-steel screen and retaining the <0.18 mm material.

ANALYTICAL METHODS

Analyses of all the samples were by semiquantitative emission spectrography for 31 elements (Grimes and Marranzino, 1968). Elements sought consisted of Fe, Mg, Ca, Ti, Mn, Ag, As, Au, B, Ba, Be, Bi, Cd, Co, Cr, Cu, La, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, V, W, Y, Zn, Zr, and Th. Results of these spectrographic analyses for both of the sample media (heavy minerals and sieved sediment) were measured within geometric intervals (for example, boundaries at 1200, 830, 560, 380, 260, 180, 120, and 83 in ppm) but were reported as the approximate geometric midpoints (1000, 700, 500, 300, 200, 150, and 100 ppm in the above example). The results are therefore reported as a series of six steps per order of magnitude. Reported values fall within one adjoining reporting interval 83 percent of the time and two adjoining reporting intervals 96 percent of the time for all of the elements (Motooka and Grimes, 1976). Table 1 lists the upper and lower detection limits of the spectrographic method.

Table 1.--Detection limits for emission spectrographic analysis of stream sediment

[Ti, Mg, Fe, and Ca are reported in percent; all other elements are reported in parts per million. Lower and upper limits for heavy-mineral concentrates are two reporting intervals higher because of dilution techniques required for the reduction of matrix problems]

Element	Lower limits	Upper limits
Fe	0.05	20
Mg	.02	10
Ca	0.05	20
Ti	.002	1
Mn	10	5,000
Ag	0.5	5,000
As	200	10,000
Au	10	500
B	10	2,000
Ba	20	5,000
Be	1	1,000
Bi	10	1,000
Cd	20	500
Co	5	2,000
Cr	10	5,000
Cu	5	20,000
La	20	1,000
Mo	5	2,000
Nb	20	2,000
Ni	5	5,000
Pb	10	20,000
Sb	100	10,000
Sc	20	500
Sn	10	1,000
Sr	100	5,000
V	10	10,000
W	50	10,000
Y	10	2,000
Zn	200	10,000
Zr	10	1,000
Th	10	1,000

STATISTICAL METHODS

Table 2 is a statistical summary of the geochemical data. Spearman Rank correlation coefficients are shown in tables 3 and 4. Table 5 is a listing of the analyses for the nonmagnetic heavy-mineral concentrates and table 6 lists sieved-stream sediments.

All data listed in the tables of analytical values (tables 5 and 6) were entered into the U.S. Geological Survey data storage system entitled RASS (Rock Analyses Storage System). Data retrieved from the RASS storage were then formatted into files that can be manipulated by use of several STATPAC (Statistical Package) programs (VanTrump and Miesch, 1976). These STATPAC programs were used to generate the basic statistics (table 2), Spearman Rank correlation (tables 3 and 4), the tables of analytical data (tables 5 and 6), and the sample locality map (fig. 1).

The basic statistics (table 2) provide a concise summary of the data distributions and are based on untransformed (nonlogarithmic) data. These statistics provide a first step in examining the geochemical data for values outside the expected norm.

Spearman Rank correlations are used to determine elemental associations. The associations in turn provide clues to potential mineral deposit types. Spearman Rank is appropriate for semiquantitative trace-element data because it is a nonparametric method of correlation analysis and therefore no assumptions are made with regard to the prevailing frequency distributions (Beus and Grigorian, p. 270-274). More realistic values are therefore obtainable than with the product-moment method where log-transformed data are used based on the assumption of approximate lognormality. Most geochemical data including that presented here consist of mixed statistical populations rather than two that are lognormal and separable into background and anomalous populations. The main limitation of the nonparametric correlation analysis (Spearman) is that it can only be used on data matrices such as the Dragoon Mountains with less than 400 rows (or samples).

As with other types of correlation coefficients +1.00 indicates a perfect positive correlation between variables, -1.00 indicates a negative correlation or antipathy between variables, and 0.00 indicates a random relationship or lack of dependence between variables. Most coefficients fall somewhere between the extremes. The symbol (---) on tables 3 and 4 indicates an inadequate number of variable pairs to calculate a correlation coefficient. The significance of correlations can be ascertained by comparing degrees of freedom (number of valid pairs listed in the lower part of tables 3 and 4) and value of correlation coefficient with levels of 95 and 99 percent probability on a table of significant values (see Koch and Link, 1970, p. 361, Table A.8). In a quick qualitative assessment, a high coefficient value and several valid pairs of two variables indicates a correlation and thus, a geologic association that must be determined.

Tables 5 and 6 are arranged so that column 1 contains the sample identifiers (field numbers). The first two numbers of the sample identifier designate the year the sample was collected, the next two letters indicate the 15-minute quadrangle in which it was collected, and the number is the unique sample site identifier. The suffixes indicate the sample is a heavy-mineral

concentrate. The sieved sediments (table 6) are shown by numbers without suffix. The letter designations for 15-minute quadrangles have the following codes: DG--Draagoon; SD--St. David; PE--Pierce, CO--Cochise.

The latitude and longitude for each sample locality are shown in degrees, minutes, and seconds in columns 2 and 3 of tables 5 and 6. The remaining columns list the data. The locations of the sample sites are also shown on the sample locality map (plate 1).

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Table 2.--Statistical summary of geochemical data in heavy-mineral concentrates and sieved stream sediments, Dragoon Mountains Roadless Area, Arizona and adjacent area

[Based on semiquantitative emission spectrographic analyses; values in percent for Fe, Mg, Ca, and Ti; all others in parts per million. N = not detected; L = detected but below standard; G = greater than upper limit; --- = no data]

Element	Sample Type	N	Qualified values L	G	Number of valid observations	Data based on reported values only			Data based on all samples analyzed									
						Range Min	Range Max	Mean ³	Standard Deviation	25	50	75	Percentile Distribution					95
Fe	1	0	1	0	181	0.1	50	6.6	7.3	---	---	8.9	9.8	13	17	19	26	
	2	0	0	0	188	0.5	15	3.5	2.4	2.0	2.7	3.7	4.5	5.3	6.3	7.2	11	
Mg	0	2	0	0	180	.02	15	1.7	2.5	---	---	1.7	2.0	2.7	4.2	6.0	11	
	0	0	0	0	188	0.1	5.0	0.8	0.6	0.5	0.6	0.9	1.0	1.3	1.7	1.9	2.6	
Ca	0	0	0	0	182	.15	50	8.7	8.1	---	7.4	11	14	16	18	19	32	
	0	0	0	0	188	0.1	20	3.5	4.5	---	1.5	4.5	5.3	8.3	9.8	13	18	
Ti	0	1	101	0	80	.005	2.0	1.6	0.6	1.0	0.2	0.4	0.5	0.5	0.6	0.7	1.0	
	0	0	0	0	188	0.1	1.0	0.4	0.2	0.2	0.2	0.4	0.5	0.5	0.6	0.7	1.0	
Mn	0	1	0	0	181	20	10000	2568	2312	1024	1625	3134	3794	4520	5247	6776	9656	
	0	0	2	2	186	200	5000	1052	851	591	800	1116	1251	1501	1752	2070	---	
Ag	152	4	0	0	26	1.0	1000	81	212	---	---	---	---	---	---	---	261	
	177	5	0	0	6	0.5	3.0	0.5	0.2	---	---	---	---	---	---	---	0.9	
As	171	4	0	0	7	300	1000	629	221	---	---	---	---	---	---	---	669	
	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---	---	---	
Au	181	0	0	0	1	---	---	30	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---	---	---	
B	31	14	0	0	137	20	2000	138	253	---	---	---	---	---	242	371	1171	
	5	35	0	0	148	10	150	23	19	---	20	33	35	37	44	56	79	
Ba	1	5	18	0	158	50	10000	1939	3075	---	---	1902	3135	5282	---	---	---	
	0	0	0	0	188	20	1000	271	173	133	187	310	350	423	497	601	724	
Be	17	12	0	0	153	2	200	47	173	---	---	---	---	---	---	177	426	
	1	11	0	0	176	1.0	20	4.1	4.2	---	2.6	3.8	5.3	6.5	8.2	14	19	
Bi	94	13	7	0	67	20	2000	162	415	---	---	---	---	---	---	944	---	
	181	2	0	0	5	10	20	10	0.7	---	---	---	---	---	---	---	---	
Cd	181	1	0	0	0	---	---	---	---	---	---	---	---	---	---	---	---	
	186	2	0	0	0	---	---	---	---	---	---	---	---	---	---	---	---	
Co	28	23	0	0	131	10	500	39	57	---	---	---	---	48	60	72	250	
	22	4	0	0	162	5.0	20	7.9	4.0	---	---	9.3	10	11	13	15	20	
Cr	9	30	0	0	143	20	1000	129	147	---	---	129	141	159	201	344	658	
	39	1	0	0	148	10	300	34	36	---	---	52	61	70	79	94	169	
Cu	1	10	0	0	171	10	7000	249	901	---	---	---	---	---	---	857	5346	
	0	0	0	0	188	5.0	1500	60	194	---	---	---	---	---	---	137	1038	

Table 2.--Statistical summary of geochemical data in heavy-mineral concentrates and sieved stream sediments, Dragoon Mountains Roadless Area, Arizona and adjacent areas (continued)

[Based on semiquantitative emission spectrographic analyses; values in percent for Fe, Mg, Ca, and Ti; all others in parts per million. N = not detected; L = detected but below standard; G = greater than upper limit; --- = no data]

Element	Sample type	N	Qualified values		Number of valid observations	Data based on reported values only				Data based on all samples analyzed									
			L	G		Range Min Max	Mean ³	Standard Deviation	Percentile Distribution										
									25	50	75	80	85	90	95	99			
La	1	11	3	36	132	30	2000	719	777	---	353	1562	1982	---	---	---	---		
	2	13	4	5	166	20	1000	150	260	---	---	118	160	237	449	860	---		
Mo	59	15	0	0	108	10	3000	146	367	---	---	---	---	---	336	1186	---		
	168	7	0	0	13	5.0	20	5.2	1.5	---	---	---	---	---	---	14	---		
Nb	25	27	0	0	130	20	700	137	93	---	81	139	152	168	184	199	444		
	118	13	0	0	57	20	200	32	29	---	---	---	---	47	67	87	156		
Ni	12	72	0	0	98	10	200	32	29	---	---	---	26	37	52	67	104		
	1	44	0	0	143	5.0	70	11	8.3	---	9.3	16	17	19	21	24	30		
Pb	1	6	1	1	174	20	50000	1745	5729	---	---	---	---	---	4759	8128	---		
	1	2	0	0	185	10	300	45	36	---	43	65	72	80	88	102	169		
Sb	178	0	0	1	3	200	10000	306	841	---	---	---	---	---	---	---	3819		
	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---	---	---		
Sc	18	8	10	10	139	10	200	52	58	---	23	72	114	140	170	---	---		
	3	24	0	0	161	5.0	30	7.9	5.2	---	---	8.2	9.2	11	14	19	28		
Sn	54	25	5	5	98	20	2000	247	508	---	---	---	187	453	882	2079	---		
	140	1	0	0	47	10	100	14	12	---	---	---	---	---	21	31	69		
Sr	83	8	0	0	83	200	5000	646	632	---	---	---	---	603	749	1104	2041		
	62	6	0	0	120	100	1000	177	131	---	---	198	217	263	314	409	549		
V	1	1	0	0	180	20	1000	171	166	---	121	175	199	238	312	467	867		
	0	0	0	0	188	10	300	62	50	---	38	57	83	89	97	104	141		
W	34	40	3	3	105	100	5000	525	831	---	---	633	765	940	1472	2020	---		
	179	4	0	0	5	50	500	55	46	---	---	---	---	---	---	---	135		
Y	1	2	19	19	160	10	5000	1065	1614	---	---	925	1391	2345	---	---	---		
	0	1	0	0	187	10	700	82	141	---	---	64	82	100	223	392	638		
Zn	165	6	0	0	11	500	10000	632	896	---	---	---	---	---	---	---	3831		
	150	23	0	0	15	200	20000	214	134	---	---	---	---	---	---	---	349		
Zr	0	0	126	2	56	20	2000	1719	544	1927	---	---	---	---	---	---	---		
	0	0	0	0	186	70	1000	260	203	147	204	280	314	381	457	632	---		
Th	67	16	0	0	91	---	5000	1224	1775	---	---	1472	2000	---	---	---	---		
	155	3	0	0	21	---	700	109	665	---	---	---	---	---	---	210	366		

¹Data based on heavy-mineral concentrates.

²Data based on sieved stream sediment.

³Large numbers of G values for some elements indicate that mean values shown are lower than would be the case if values for G were used in calculations.

If only one valid observation is made, value reported in mean column is the single reported value.

Table 3.--Spearman Rank correlation coefficients for heavy-mineral concentrates, Dragoon Mountains, Arizona

	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Mi	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Th	
Fe	1.00	-0.176	-0.208	0.277	0.386	-0.090	0.016	---	0.183	0.269	-0.220	-0.208	---	0.488	0.147	0.318	0.151	-0.065	-0.091	0.343	0.124	---	---	0.177	0.167	0.278	0.207	-0.020	0.063	0.495	0.103	-0.068
Mg	1.00	---	0.375	-0.356	-0.003	-0.073	0.257	---	0.189	-0.217	-0.096	-0.209	---	-0.215	0.190	-0.138	-0.492	0.239	-0.271	0.134	0.015	---	---	-0.329	-0.336	-0.278	0.307	-0.130	-0.430	-0.012	-0.416	-0.068
Ca	1.00	---	---	0.001	0.197	0.022	0.105	---	0.157	-0.055	0.092	-0.254	---	-0.371	-0.018	-0.161	-0.492	0.199	-0.192	0.010	-0.054	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
Ti	1.00	---	---	---	0.120	0.052	---	---	0.227	0.312	0.133	0.185	---	0.020	0.202	0.186	-0.492	0.057	0.487	0.053	0.177	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
Mn	1.00	---	---	---	---	---	---	---	0.253	-0.005	0.150	-0.235	---	0.082	-0.119	0.072	-0.492	0.057	0.487	0.053	0.177	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
Ag	1.00	---	---	---	---	---	---	---	0.065	-0.229	-0.146	-0.122	---	-0.399	0.259	0.000	-0.122	0.017	0.087	-0.021	-0.110	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
As	1.00	---	---	---	---	---	---	---	-0.033	0.113	0.730	0.500	---	0.363	0.652	0.270	-0.073	---	-0.363	---	0.671	---	---	-0.500	0.015	---	0.263	---	1.00	---	---	---
Au	1.00	---	---	---	---	---	---	---	0.112	0.174	-0.015	-0.058	---	-0.108	0.238	-0.013	-0.025	0.043	-0.253	0.185	-0.038	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
B	1.00	---	---	---	---	---	---	---	---	---	---	---	---	-0.069	-0.303	-0.265	-0.147	0.134	-0.046	-0.046	-0.295	---	---	-0.332	-0.360	-0.140	0.068	-0.158	-0.430	-0.012	-0.416	-0.068
Ba	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Be	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bi	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cd	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Co	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cr	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cu	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
La	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mo	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nb	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mi	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pb	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sb	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sc	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sn	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sr	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
V	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Y	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zn	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zr	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Th	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															

Table 4.--Spearman Rank correlation coefficients for stream sediments, Dragoon Mountains, Arizona

	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Th	
Fe	1.00	-0.210	-0.337	0.619	0.608	0.885	---	---	---	-0.130	-0.041	0.363	-0.559	0.461	-0.124	0.168	0.431	0.474	0.373	0.065	0.082	---	0.302	0.556	0.005	0.410	0.401	0.592	0.214	0.436	0.318	
Mg	125	1.00	-0.806	-0.239	-0.057	0.235	---	---	---	-0.213	-0.274	0.387	-0.726	0.250	-0.432	0.382	-0.160	0.225	-0.428	0.564	0.235	0.258	0.079	0.040	0.392	0.866	-0.726	-0.255	-0.061	-0.135	0.446	
Ca	138	156	1.00	-0.328	-0.087	-0.143	---	---	---	0.204	0.210	-0.311	-0.107	-0.250	-0.428	0.502	-0.105	0.000	-0.527	0.274	0.213	0.144	-0.295	0.487	0.550	-0.530	-0.206	0.010	-0.077	-0.359		
Ti	166	166	156	1.00	0.541	---	---	---	---	-0.143	0.109	0.305	-0.181	0.342	0.115	0.200	0.536	0.030	0.450	0.356	0.352	0.157	0.077	0.384	0.191	0.191	0.191	0.191	0.191	0.191		
Mn	184	184	184	184	1.00	0.861	---	---	---	-0.170	-0.483	0.834	-0.726	0.874	-0.671	0.892	-0.913	0.518	0.402	0.193	0.424	0.424	-0.783	0.302	0.556	-0.516	-0.390	0.000	0.016	0.949		
Ag	4	4	4	4	4	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
As	0	0	0	0	0	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Au	0	0	0	0	0	0	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
B	0	0	0	0	0	0	0	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Ba	146	146	146	146	145	---	---	---	---	0.318	-0.263	0.250	---	-0.290	-0.432	0.382	-0.160	0.225	-0.428	0.564	0.235	0.258	0.079	0.040	0.392	0.866	-0.726	-0.255	-0.061	-0.135	0.446	
Be	166	166	166	166	166	---	---	---	---	156	-1.00	-0.105	---	-0.299	-0.428	0.502	-0.105	0.000	-0.527	0.274	0.213	0.144	-0.295	0.487	0.550	-0.530	-0.206	0.010	-0.077	-0.359		
Bi	174	174	174	174	172	---	---	---	---	174	1.00	-0.354	---	-0.020	-0.194	-0.032	-0.375	0.275	0.454	-0.209	0.079	0.064	-0.096	0.207	-0.057	-0.067	-0.519	-0.015	-0.043	0.219		
Cd	3	3	3	3	3	3	3	3	3	3	3	1.00	---	-0.500	0.745	-0.726	-0.104	0.563	-0.283	0.467	0.047	0.383	-0.046	-0.132	0.547	0.738	-0.403	0.206	0.175	0.210		
Co	0	0	0	0	0	0	0	0	0	0	0	0	1.00	---	0.261	0.518	-0.104	0.563	-0.283	0.467	0.047	0.383	-0.046	-0.132	0.547	0.738	-0.403	0.206	0.175	0.210		
Cr	160	160	160	160	159	---	---	---	---	160	148	1	---	1.00	-0.261	0.518	-0.104	0.563	-0.283	0.467	0.047	0.383	-0.046	-0.132	0.547	0.738	-0.403	0.206	0.175	0.210		
Cu	166	166	166	166	166	---	---	---	---	166	174	3	0	136	1.00	-0.454	-0.087	0.111	-0.352	0.706	0.230	0.216	-0.216	-0.410	0.310	0.817	-0.153	-0.582	-0.201	-0.724	-0.255	
La	164	164	164	164	164	---	---	---	---	164	155	0	0	142	127	164	1.00	0.063	0.645	0.053	0.229	0.306	0.472	0.332	-0.053	0.177	0.719	-0.481	0.459	0.525	0.446	
Mo	11	11	11	11	11	---	---	---	---	11	10	0	0	41	9	11	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446	
Mn	55	55	55	55	55	---	---	---	---	55	55	0	0	11	33	55	52	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	
Ni	141	141	141	141	140	---	---	---	---	141	129	1	0	128	127	141	124	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	
Pb	183	183	183	183	181	---	---	---	---	183	171	3	0	158	143	181	162	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	
Sb	0	0	0	0	0	---	---	---	---	0	0	0	0	0	0	0	0	0.063	0.645	0.053	0.229	0.306	0.472	0.332	-0.053	0.177	0.719	-0.481	0.459	0.525	0.446	
Sc	159	159	159	157	157	---	---	---	---	159	147	0	0	140	127	159	144	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	
Sn	0	0	0	0	0	---	---	---	---	0	0	0	0	0	0	0	0	0.063	0.645	0.053	0.229	0.306	0.472	0.332	-0.053	0.177	0.719	-0.481	0.459	0.525	0.446	
Sr	45	45	45	45	44	---	---	---	---	45	44	0	0	30	27	45	40	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	
Ti	118	118	118	117	117	---	---	---	---	118	107	0	0	108	101	118	106	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446
V	186	186	186	184	184	---	---	---	---	186	174	3	0	160	146	186	164	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446
W	3	3	3	3	3	---	---	---	---	3	3	0	0	2	2	3	3	0.063	0.645	0.053	0.229	0.306	0.472	0.332	-0.053	0.177	0.719	-0.481	0.459	0.525	0.446	
Y	185	185	185	185	183	---	---	---	---	185	173	0	0	160	145	185	164	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446
Zn	13	13	13	13	13	---	---	---	---	13	13	0	0	12	9	13	11	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446
Zr	164	164	164	164	162	---	---	---	---	164	172	3	0	158	144	164	162	1.00	0.000	-0.343	0.323	0.155	-0.077	-0.276	-0.392	0.134	0.000	0.318	-0.481	0.459	0.525	0.446
Th	19	19	19	19	18	---	---	---	---	19	18	0	0	10	7	19	15	0.063	0.645	0.053	0.229	0.306	0.472	0.332	-0.053	0.177	0.719	-0.481	0.459	0.525	0.446	

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountain Roadless Area and contiguous areas, Cochise County, Arizona

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FEX	S-WGX	S-CAX	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
78C01U5N	32 U 21	109 57 55	1.5	.70	1.00	>1.000	500	15	N	30	300	500
78C01U4N	32 U 52	109 57 54	2.0	.70	.70	>1.000	300	N	N	N	1,000	700
78C01U5N	32 1 27	109 57 32	.7	1.00	3.00	1.000	700	150	N	N	70	500
78PE1U1N	31 54 1	109 55 23	.3	5.00	7.00	.150	1,500	N	N	N	30	<50
78PE1U2N	31 55 12	109 55 0	1.0	.02	.30	1.000	200	N	N	N	<20	700
78PE1U3N	31 56 49	109 57 11	.5	3.00	7.00	.300	1,500	N	N	N	70	50
78PE1U4N	31 56 54	109 57 16	.5	5.00	7.00	.100	1,000	N	N	N	30	100
78PE1U5N	31 56 31	109 58 27	1.0	3.00	5.00	.500	700	5	N	N	70	200
78PE1U6N	31 59 23	109 58 6	1.5	1.50	5.00	>1.000	500	N	N	N	150	300
79C01U6N	32 1 10	109 59 20	.7	.70	20.00	>1.000	1,000	N	N	N	1,500	300
79C01U7N	32 2 24	109 59 43	1.5	1.00	20.00	>1.000	300	100	<500	N	100	>5,000
79C01U8N	32 3 36	109 59 27	2.0	1.50	15.00	>1.000	2,000	N	N	N	70	500
79C01U9N	32 4 56	109 59 55	2.0	1.00	15.00	>1.000	2,000	N	N	N	70	200
79C0110N	32 7 6	109 57 12	1.0	.15	2.00	>1.000	1,000	N	700	N	20	700
79C0111N	32 7 36	109 58 10	1.5	2.00	15.00	>1.000	700	N	<500	N	70	>5,000
79C0112N	32 6 1	109 58 36	1.5	.50	15.00	.700	700	1,000	500	N	30	>5,000
79C0113N	32 8 21	109 57 33	1.0	.50	7.00	1.000	500	N	N	N	30	>5,000
80D64U0N	32 U 36	110 U 12	2.00	1.00	2.00	>2.000	700	N	N	N	1,000	1,000
80D64U2N	32 2 8	110 6 5	2.0	.20	15.00	1.500	3,000	N	N	N	N	1,500
80D64U5N	32 U 42	110 7 29	1.0	.15	3.00	1.500	700	N	N	N	70	200
80D64U4N	32 1 19	110 6 19	1.5	.20	15.00	2.000	1,500	N	N	N	N	500
80D64U5N	32 1 35	110 5 59	1.0	.15	7.00	1.500	2,000	N	N	N	30	2,000
80D64U7N	32 U 49	110 3 38	1.5	2.00	15.00	1.000	1,000	N	N	N	N	200
80D64U8N	32 1 23	110 4 9	1.0	3.00	<0.00	.300	1,000	1	N	N	N	700
80D64U9N	32 1 28	110 4 21	2.0	.50	15.00	.700	1,000	N	N	N	N	500
80D6410N	32 1 45	110 4 36	2.0	7.00	<0.00	.500	1,000	N	N	N	N	150
80D6411N	32 1 57	110 4 41	1.5	1.50	15.00	1.500	1,500	N	N	N	N	1,500
80D6412N	32 U 47	110 4 14	2.0	.30	10.00	1.000	1,500	N	N	N	N	100
80D6413N	32 U 15	110 5 35	1.0	.15	10.00	>2.000	1,000	N	N	N	N	100
80D6414N	32 U 9	110 6 33	2.0	.20	10.00	>2.000	2,000	N	N	N	N	150
80D6415N	32 2 50	110 3 6	2.0	5.00	15.00	1.500	2,000	N	N	N	N	300
80D6417N	32 4 13	110 2 53	1.0	.20	<0.00	>2.000	5,000	N	N	N	N	500
80D6418N	32 4 54	110 3 51	1.0	.15	2.00	2.000	5,000	N	N	N	N	>10,000
80D6419N	32 5 21	110 4 2	5.0	1.00	15.00	2.000	5,000	N	N	N	200	3,000
80D6420N	32 5 34	110 4 45	2.0	1.50	15.00	>2.000	1,500	N	N	N	150	700
80D6421N	32 5 27	110 4 56	3.0	.70	10.00	>2.000	2,000	N	N	N	150	5,000
80D6422N	32 5 48	110 4 41	3.0	1.00	10.00	>2.000	3,000	N	N	N	100	500
80D6424N	32 6 45	110 3 49	2.0	3.00	20.00	.500	5,000	N	N	N	N	200
80D6425N	32 6 36	110 3 21	1.5	5.00	15.00	.700	5,000	N	N	N	N	150
80D6426N	32 5 59	110 2 47	30.0	1.50	7.00	.300	2,000	5	N	N	20	150
80D6428N	32 5 35	110 3 23	20.0	1.50	10.00	>2.000	500	3	N	N	20	3,000
80D6429N	32 5 20	110 3 35	2.0	.10	10.00	1.500	5,000	10	N	N	N	7,000
80D6430N	32 4 54	110 4 27	3.0	.30	15.00	>2.000	5,000	N	N	N	30	150
80D6431N	32 5 2	110 4 39	2.0	.50	15.00	2.000	3,000	<1	N	N	N	>10,000

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountain Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
78C0103N	<2	N	N	15	300	30	150	20	<50	<10	1,500	N
78C0104N	<2	N	N	15	300	15	70	10	50	<10	50	N
78C0105N	<2	N	N	<10	150	150	100	200	<50	<10	7,000	N
78PE101N	2	N	N	20	<20	15	70	50	<50	<10	50	N
78PE102N	30	500	N	<10	<20	20	700	50	<50	<10	20	N
78PE103N	7	30	N	<10	<20	<10	50	30	<50	<10	50	N
78PE104N	<2	N	N	<10	20	<10	N	10	N	<10	20	N
78PE105N	<2	N	N	<10	70	30	N	150	N	<10	2,000	N
78PE106N	<2	N	N	<10	150	15	100	10	<50	<10	50	N
79C0106N	N	N	N	N	500	200	100	N	50	N	50	N
79C0107N	N	N	N	<10	150	30	100	700	<50	N	5,000	N
79C0108N	5	N	N	20	50	50	>1,000	N	<50	N	500	N
79C0109N	100	N	N	<10	100	<10	>1,000	N	<50	N	200	>10,000
79C0110N	<2	N	N	N	20	<10	100	N	N	N	2,000	2,000
79C0111N	N	N	N	N	30	200	70	N	<50	N	70	3,000
79C0112N	<2	N	N	N	20	30	200	N	<50	N	>20,000	N
79C0113N	N	N	N	N	20	50	70	N	<50	N	150	5,000
80D6400N	5	N	N	70	500	100	300	70	30	30	500	N
80D6402N	>	N	N	<10	50	50	>2,000	20	150	10	700	N
80D6403N	N	N	N	10	100	50	>2,000	N	150	10	100	N
80D6404N	>	N	N	<10	50	30	2,000	N	150	<10	70	N
80D6405N	100	N	N	N	20	20	1,000	N	100	<10	150	N
80D6407N	<20	<20	N	N	20	10	150	N	20	<10	20	N
80D6408N	20	<20	N	N	20	15	30	N	N	10	30	N
80D6409N	50	N	N	N	70	10	300	N	20	<10	20	N
80D6410N	200	<20	N	N	N	15	100	N	N	10	50	N
80D6411N	50	N	N	N	100	20	1,500	N	150	<10	70	N
80D6412N	15	N	N	N	100	20	500	N	70	<10	30	N
80D6413N	N	150	N	15	100	70	2,000	N	150	<10	70	N
80D6414N	N	100	N	20	70	100	>2,000	10	150	10	100	N
80D6415N	20	30	N	10	150	50	1,500	70	100	30	200	N
80D6417N	300	N	N	<10	N	70	1,500	N	150	<10	70	N
80D6418N	10	200	N	15	N	50	>2,000	10	200	<10	500	N
80D6419N	15	20	N	20	100	200	>2,000	15	150	30	300	N
80D6420N	30	<20	N	<10	100	150	300	15	200	20	200	N
80D6421N	>	1,000	N	10	150	100	2,000	150	200	20	700	N
80D6422N	15	N	N	15	100	150	500	15	200	30	100	N
80D6424N	7	50	N	N	100	100	50	20	N	30	150	N
80D6425N	15	N	N	N	50	200	N	10	N	15	700	N
80D6426N	5	30	N	500	N	3,000	N	100	N	100	100	N
80D6428N	300	N	N	500	150	300	300	100	<50	70	2,000	N
80D6429N	200	100	N	10	N	50	>2,000	200	<50	10	3,000	N
80D6430N	300	N	N	N	N	200	N	200	<50	10	50	N
80D6431N	150	N	N	20	20	50	>2,000	<10	70	10	300	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Driagon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
76C0103N	70	N	<200	150	150	150	N	>1,000	N
76C0104N	30	N	N	100	<100	70	N	>1,000	N
78C0105N	30	N	200	70	100	100	3,000	>1,000	N
78PE101N	<10	N	N	20	<100	300	N	>1,000	>2,000
78PE102N	>100	>1,000	N	50	N	1,500	N	>1,000	>2,000
78PE103N	30	300	N	20	<100	300	N	>1,000	300
78PE104N	N	N	N	<20	<100	<20	N	300	<200
78PE105N	<10	N	300	100	<100	30	N	1,000	<200
78PE106N	30	N	N	100	<100	70	N	>1,000	N
79C0106N	50	N	N	150	<100	200	N	>1,000	--
79C0107N	70	N	500	150	1,000	300	N	>1,000	--
79C0108N	>100	70	5,000	150	N	500	N	>1,000	--
79C0109N	>100	20	N	150	700	500	1,000	>1,000	--
79C0110N	>100	N	N	70	N	700	N	>1,000	--
79C0111N	>100	N	1,500	70	N	300	N	>1,000	--
79C0112N	>100	200	700	70	N	200	500	>1,000	--
79C0113N	>100	N	<200	50	N	300	N	>1,000	--
80D6401N	10	50	500	300	2,000	300	N	>2,000	<200
80D6402N	20	50	700	100	200	500	N	>2,000	500
80D6403N	15	N	<200	100	200	500	N	>2,000	1,000
80D6404N	20	50	700	100	<100	500	N	2,000	200
80D6405N	10	30	200	100	<100	300	N	2,000	N
80D6407N	N	N	200	150	500	150	N	2,000	N
80D6408N	<10	N	N	100	300	50	N	200	N
80D6409N	10	N	300	200	N	200	N	1,000	N
80D6410N	<10	N	N	100	<100	100	<500	200	N
80D6411N	10	<20	200	100	<100	500	N	2,000	N
80D6412N	10	N	300	100	N	150	N	2,000	N
80D6413N	N	100	N	500	700	500	N	1,500	300
80D6414N	N	50	300	200	300	1,500	N	2,000	1,500
80D6415N	10	N	500	200	1,500	300	N	2,000	N
80D6417N	30	100	500	150	200	1,500	N	2,000	N
80D6418N	20	50	700	100	1,000	2,000	N	>2,000	3,000
80D6419N	20	30	300	150	700	500	N	>2,000	200
80D6420N	15	100	N	200	300	500	N	>2,000	<200
80D6421N	20	150	200	150	1,000	700	N	>2,000	700
80D6422N	30	150	200	200	500	700	N	>2,000	200
80D6424N	10	N	N	150	1,000	50	500	150	N
80D6425N	10	N	N	300	300	100	<500	150	N
80D6426N	N	N	N	30	2,000	50	10,000	500	N
80D6427N	<10	N	N	150	2,000	200	N	>2,000	N
80D6428N	N	70	700	100	5,000	700	N	>2,000	1,500
80D6429N	N	N	N	70	1,000	100	N	>2,000	N
80D6430N	15	50	1,000	100	700	500	N	2,000	700
80D6431N	20	100	500	70	700	1,500	N	>2,000	2,000

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-Ti%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
80D6433N	32 5 16	110 5 25	10.0	1.50	1.50	2.000	2,000	N	N	N	300	1,000
80D6433N	32 5 12	110 5 39	15.0	1.00	1.50	>2.000	5,000	N	N	N	1,000	>10,000
80PE225C	0 0 08	0 0 08	3.0	.70	3.00	>2.000	1,000	N	N	N	500	>10,000
80D6434N	32 5 44	110 6 17	2.0	.10	15.00	2.000	5,000	30	N	N	N	5,000
80D6435N	32 3 42	110 6 27	1.0	.15	10.00	1.000	3,000	N	N	N	N	1,000
80PE20UC	31 55 47	109 59 48	1.5	7.00	15.00	.300	1,000	N	N	N	30	50
80PE20UC	31 55 53	109 59 42	1.5	.20	10.00	>2.000	1,000	N	N	N	30	70
80PE20UC	31 51 38	109 56 52	1.0	.20	7.00	>2.000	700	N	N	N	50	500
80PE20UC	31 51 44	109 56 58	1.0	.20	1.00	>2.000	500	N	N	N	50	200
80PE20UC	31 52 22	109 56 1	1.0	1.50	10.00	>2.000	2,000	N	N	N	70	100
80PE207C	31 51 33	109 58 24	1.5	5.00	10.00	1.500	700	100	N	N	50	5,000
80PE208C	31 5C 49	109 57 11	1.0	7.00	10.00	.150	300	<1	N	N	<20	100
80PE209C	31 50 35	109 59 49	1.0	7.00	10.00	.150	1,000	10	N	N	<20	700
80PE210C	31 50 19	109 57 12	.7	5.00	10.00	2.000	700	5	N	N	50	3,000
80PE211C	31 51 26	109 57 53	1.0	3.00	15.00	.500	1,000	N	N	N	70	300
80PE212C	31 51 33	110 0 17	2.0	.05	.15	>2.000	1,500	N	N	N	20	150
80PE215C	31 51 8	109 59 23	1.0	7.00	10.00	1.000	1,000	<1	N	N	30	70
80PE214C	31 51 1	109 59 44	1.0	5.00	10.00	.700	1,500	N	N	N	50	50
80PE215C	31 52 45	109 58 47	2.0	2.00	10.00	.500	5,000	N	N	N	200	500
80PE216C	31 52 42	109 58 36	1.5	1.50	10.00	>2.000	3,000	N	N	N	100	100
80PE217C	31 52 35	109 58 54	1.5	4.00	10.00	.500	3,000	N	N	N	100	50
80PE216C	31 49 52	109 56 5	2.0	2.00	10.00	>2.000	2,000	N	N	N	150	7,000
80PE219C	31 43 50	109 55 44	2.0	2.00	5.00	>2.000	1,000	N	N	N	100	200
80PE220C	31 48 20	109 54 54	3.0	1.50	5.00	>2.000	2,000	2	N	N	300	5,000
80PE221C	31 48 42	109 55 12	2.0	2.00	5.00	>2.000	3,000	20	N	N	50	3,000
80PE222C	31 45 17	109 53 54	3.0	.30	5.00	>2.000	2,000	N	N	N	30	>10,000
80PE223C	31 45 57	109 54 10	4.0	.20	5.00	>2.000	2,000	N	N	N	40	500
80PE224C	31 46 35	109 54 37	3.0	.70	3.00	>2.000	3,000	N	N	N	150	5,000
80SD20UC	31 59 17	110 1 0	1.0	.70	5.00	1.500	500	N	N	N	50	300
80SD20UC	31 59 17	110 0 54	5.0	.70	3.00	>2.000	500	5	N	N	100	10,000
80SD202C	31 59 36	110 1 2	5.0	.50	3.00	>2.000	700	10	N	N	100	500
80SD203C	31 59 36	110 1 50	2.0	.70	7.00	>2.000	1,000	N	N	N	30	200
80SD204C	31 57 24	110 2 47	2.0	.20	10.00	.700	1,000	N	N	N	20	300
80SD205C	31 57 6	110 2 42	2.0	3.00	10.00	1.000	1,000	N	N	N	30	200
80SD206C	31 56 53	110 2 51	2.0	3.00	10.00	1.000	2,000	N	N	N	30	70
80SD207C	31 56 49	110 2 43	2.0	1.50	10.00	>2.000	2,000	N	N	N	100	50
80SD208C	31 57 36	110 1 50	3.0	3.00	7.00	>2.000	700	N	N	N	200	2,000
80SD209C	31 57 48	110 1 43	1.5	.20	5.00	>2.000	700	3	N	N	30	1,000
80SD210C	31 57 31	110 1 11	3.0	2.00	5.00	>2.000	700	N	N	N	50	700
80SD211C	31 57 36	110 1 7	1.0	15.00	20.00	.200	1,000	N	N	N	20	200
80SD212C	31 57 49	110 1 19	3.0	.70	5.00	>2.000	700	15	N	N	30	3,000
80SD213C	31 57 53	110 1 24	5.0	1.00	5.00	>2.000	1,000	N	N	N	20	2,000
80SD214C	31 54 46	110 2 9	3.0	1.00	3.00	>2.000	7,000	N	N	N	30	500
80SD215C	31 55 18	110 1 0	3.0	.20	.20	>2.000	1,000	N	N	N	<20	70
80SD216C	31 55 35	110 0 42	2.0	1.50	10.00	2.000	2,000	N	N	N	100	50

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountain Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
60D6432H	2	N	N	70	70	150	500	70	50	50	300	N
60D6433H	3	N	N	100	150	700	300	10	70	50	700	N
80PE225C	7	N	N	30	100	70	308	100	70	<10	300	N
80D6434H	100	700	N	10	N	10	>2,000	15	100	N	700	N
60D6435N	5	150	N	15	N	15	>2,000	100	N	N	700	N
80PE200C	7	100	N	N	20	<10	300	<10	N	10	500	N
80PE201C	20	N	N	50	<20	50	>2,000	10	150	<10	50	N
80PE202C	10	20	N	10	200	100	100	N	300	<10	3,000	N
80PE203C	15	N	N	<10	200	50	100	N	200	<10	7,000	N
80PE205C	15	20	N	N	50	100	100	30	100	<10	300	N
80PE207C	7	700	N	N	150	700	100	2,000	50	<10	50,000	N
80PE208C	3	N	N	10	70	15	N	30	N	30	300	N
80PE209C	N	500	N	10	<20	70	N	50	N	<10	7,000	N
80PE210C	N	1,000	N	<10	<20	20	100	10	100	<10	5,000	N
80PE211C	3	N	N	N	70	<10	100	<10	N	15	70	N
80PE212C	70	20	<50	70	<20	70	>2,000	N	150	<10	100	N
80PE213C	10	<20	N	15	150	15	150	300	<50	<10	2,000	N
80PE214C	20	20	N	15	<20	10	300	100	50	<10	300	N
80PE215C	70	200	N	20	50	20	100	150	N	<10	300	N
80PE216C	30	70	N	15	100	30	150	<10	70	<10	50	N
80PE217C	50	20	N	20	N	10	100	150	N	<10	30	N
80PE218C	3	N	N	30	500	30	200	<10	50	20	200	N
80PE219C	5	N	N	10	100	70	200	10	150	<10	200	N
80PE220C	7	>2,000	N	30	150	100	200	3,000	100	<10	50,000	N
80PE221C	7	100	N	20	200	70	200	<10	200	<10	5,000	N
80PE222C	10	N	N	30	50	100	2,000	<10	200	<10	300	N
80PE223C	10	N	N	30	20	100	500	10	300	20	300	N
80PE224C	10	N	N	30	150	100	2,000	N	200	<10	300	N
80SD200C	10	>2,000	N	20	20	100	100	200	<50	<10	700	N
80SD201C	500	>2,000	N	70	30	500	200	200	150	30	10,000	N
80SD202C	20	>2,000	N	30	30	150	200	1,000	300	20	7,000	N
80SD203C	100	200	N	<10	20	70	1,500	20	200	<10	100	N
80SD204C	15	70	N	10	<20	15	N	10	<50	N	50	N
80SD205C	2,000	<20	N	20	<20	<10	N	<10	<50	N	50	N
80SD206C	10	700	N	50	<20	50	150	300	50	<10	500	N
80SD207C	70	200	N	20	<20	20	200	20	300	<10	200	N
80SD208C	7	N	N	30	300	70	200	10	150	50	700	N
80SD209C	15	>2,000	N	15	30	50	100	200	100	<10	5,000	N
80SD210C	3	70	N	50	30	200	300	10	150	50	2,000	N
80SD211C	2	<20	N	20	<20	10	N	30	N	20	5,000	N
80SD212C	15	>2,000	N	50	30	100	300	200	200	<10	7,000	N
80SD213C	10	20	N	50	200	100	500	<10	150	70	7,000	N
80SD214C	15	200	N	30	100	100	2,000	20	200	<10	300	N
80SD215C	20	1,500	N	N	<20	20	>2,000	N	100	<10	200	N
80SD216C	20	N	N	20	20	10	2,000	N	200	20	100	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-SiC	S-SiN	S-SiR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
30DG6432N	20	N	200	300	300	200	N	>2,000	N
30DG6433N	30	N	700	500	500	300	N	>2,000	N
80PE225C	50	N	<200	150	700	300	N	>2,000	200
80DG6434N	15	<20	700	100	1,000	700	N	>2,000	700
80DG6435N	15	<20	300	100	1,000	1,000	N	2,000	2,000
80PE20UC	<10	20	N	70	200	100	N	2,000	500
80PE201C	100	150	N	50	150	>5,000	N	>2,000	>5,000
80PE202C	50	1,000	N	200	150	200	N	>2,000	200
80PE203C	70	70	N	300	100	200	N	>2,000	<200
80PE205C	20	200	N	150	100	200	N	2,000	<200
80PE207C	N	20	N	500	2,000	50	<500	2,000	N
80PE208C	N	N	N	100	<100	10	N	100	N
80PE209C	N	N	N	200	500	<20	<500	200	N
80PE210C	N	50	N	70	100	70	N	1,500	N
80PE211C	N	<20	N	100	N	50	N	500	N
80PE212C	70	<20	N	30	N	>5,000	N	>2,000	>5,000
80PE213C	N	<20	N	100	1,000	100	N	>2,000	300
80PE214C	N	<20	N	70	500	150	N	2,000	500
80PE215C	N	70	N	70	700	50	N	1,000	N
80PE216C	10	<20	N	200	N	70	N	1,000	N
80PE217C	N	<20	N	50	1,000	70	N	2,000	N
80PE218C	20	N	700	100	N	300	N	2,000	N
80PE219C	20	<20	N	100	<100	200	N	2,000	N
80PE220C	50	50	300	150	3,000	300	N	>2,000	<200
80PE221C	30	50	N	150	100	300	N	>2,000	<200
80PE222C	150	100	N	200	100	1,000	N	>2,000	1,500
80PE223C	150	100	N	300	N	5,000	N	>2,000	5,000
80PE224C	150	50	N	200	N	3,000	N	>2,000	3,000
80SD200C	10	<20	200	200	>2,000	200	N	>2,000	<200
80SD201C	20	70	200	150	2,000	300	3,000	>2,000	200
80SD202C	30	100	N	150	>2,000	500	N	>2,000	200
80SD203C	15	70	500	100	1,000	200	N	1,500	<200
80SD204C	10	50	500	100	N	100	N	150	N
80SD205C	10	N	<200	100	N	100	N	2,000	N
80SD206C	15	<20	N	100	>2,000	200	N	>2,000	>5,000
80SD207C	100	100	N	50	300	500	N	>2,000	1,500
80SD208C	20	70	<200	100	1,000	500	N	>2,000	<200
80SD209C	15	<20	500	150	2,000	100	N	>2,000	N
80SD210C	30	200	1,000	150	2,000	200	N	500	200
80SD211C	N	N	N	50	200	20	500	>2,000	N
80SD212C	50	70	N	100	2,000	500	N	>2,000	300
80SD213C	30	70	N	100	500	200	N	>2,000	1,000
80SD214C	200	100	N	50	500	3,000	N	>2,000	2,000
80SD215C	10	>2,000	N	N	N	>2,000	N	>2,000	>5,000
80SD216C	100	70	N	100	100	700	N	>2,000	3,000

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-Ti%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
80SD217C	31 55 23	110 1 23	1.0	5.00	10.00	1.500	700	N	N	N	50	70
80SD219C	31 53 55	110 2 47	3.0	.20	.20	>2.000	1,000	N	N	N	30	100
80SD220C	31 53 18	110 2 30	<.0	.20	.50	>2.000	1,500	N	N	N	30	150
80SD221C	31 52 48	110 2 18	1.0	.10	.50	>2.000	1,000	N	N	N	20	100
80SD222C	31 52 48	110 1 37	<.1	.10	.20	>2.000	1,000	N	300	N	20	150
80SD223C	31 53 5	110 1 1	3.0	.20	.30	>2.000	2,000	N	N	N	<20	150
80SD224C	31 53 20	110 1 3	3.0	.20	.30	>2.000	3,000	N	N	N	<20	300
80SD225C	31 52 37	110 1 29	2.0	.20	.30	>2.000	2,000	N	1,000	N	20	150
80SD226C	31 52 3	110 1 14	3.0	.15	.20	>2.000	2,000	N	700	N	30	200
80SD227C	31 53 30	110 0 35	2.0	.50	5.00	>2.000	2,000	N	N	N	100	<50
80SD228C	31 54 12	110 0 3	5.0	1.50	10.00	1.000	2,000	N	N	N	100	<50
80SD229C	31 54 9	110 0 27	2.0	.10	3.00	>2.000	1,000	N	<500	N	<20	50
80SD230C	31 53 42	110 0 42	3.0	.20	.30	>2.000	1,500	N	500	N	<20	100
80SD231C	31 51 57	110 0 20	2.0	.10	.20	>2.000	1,000	N	N	N	<20	100
80PE300N	31 58 5	109 57 13	7.0	1.50	15.00	.500	7,000	N	N	N	100	300
80PE301N	31 56 53	109 57 39	10.0	.20	.50	>2.000	7,000	N	N	N	<20	300
80PE302N	31 55 16	109 58 5	15.0	.70	2.00	>2.000	5,000	N	N	N	20	200
80PE303N	31 53 30	109 57 41	15.0	2.00	10.00	>2.000	5,000	N	N	N	70	200
80PE304N	31 54 57	109 57 44	10.0	.30	.50	>2.000	7,000	N	N	N	<20	200
80PE305N	31 54 38	109 57 45	7.0	2.00	20.00	2.000	5,000	N	N	N	200	700
80PE306N	31 54 40	109 57 47	10.0	2.00	20.00	1.000	5,000	N	N	N	150	500
80PE308N	31 56 26	109 55 56	10.0	.30	20.00	2.000	10,000	N	N	N	30	700
80PE309N	31 56 36	109 55 12	15.0	.20	.20	>2.000	7,000	N	N	N	50	200
80PE310N	31 53 42	109 55 23	10.0	1.00	15.00	.700	7,000	N	N	N	50	500
80PE311N	31 52 58	109 55 18	10.0	1.50	20.00	1.000	10,000	N	N	N	2,000	300
80PE313N	31 53 13	109 55 34	10.0	1.00	40.00	.700	7,000	N	N	N	70	300
80PE314N	31 53 29	109 55 58	7.0	5.00	15.00	.300	5,000	N	N	N	70	200
80PE315N	31 53 45	109 56 33	10.0	5.00	20.00	.500	10,000	N	N	N	300	300
80PE316N	31 53 49	109 56 33	20.0	1.00	10.00	1.000	10,000	N	700	N	300	300
80PE317N	31 54 8	109 55 25	15.0	.50	.20	>2.000	7,000	N	N	N	<20	300
80PE319N	31 52 58	109 57 8	10.0	.30	10.00	1.000	5,000	N	N	N	300	500
80PE320N	31 53 19	109 57 18	15.0	1.00	10.00	1.000	7,000	N	N	N	200	300
80PE321N	31 53 16	109 57 22	10.0	.70	10.00	2.000	7,000	N	N	N	300	300
80PE323N	31 52 6	109 55 36	20.0	.20	10.00	1.000	7,000	N	N	N	200	700
80PE324N	31 51 51	109 54 28	10.0	.30	10.00	>2.000	5,000	N	N	N	300	3,000
80PE325N	31 51 25	109 54 30	30.0	.20	3.00	>2.000	3,000	N	N	N	200	>5,000
80PE326N	31 53 46	109 49 55	20.0	.30	3.00	2.000	10,000	N	N	N	100	5,000
80PE328N	31 51 25	109 53 34	15.0	.50	3.00	2.000	1,000	N	N	N	70	3,000
80PE329N	31 50 33	109 53 52	20.0	.50	2.00	>2.000	2,000	N	N	N	70	1,500
80PE330N	31 48 0	109 52 33	20.0	.50	1.00	>2.000	2,000	N	N	N	70	700
80PE331N	31 48 6	109 52 35	20.0	1.00	1.50	>2.000	2,000	N	N	N	50	1,500
80PE332N	31 48 2	109 52 11	15.0	1.00	3.00	>2.000	2,000	N	N	N	50	700
80PE333N	31 50 42	109 52 2	20.0	.30	2.00	>2.000	3,000	N	N	N	100	1,000
80PE334N	31 50 57	109 52 5	10.0	.20	.50	>2.000	3,000	N	N	N	70	>10,000
80PE335N	31 50 0	109 51 34	10.0	.15	.30	>2.000	1,000	N	N	N	200	7,000

Table 5.---Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-E	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
80SD217C	7	N	N	20	70	<10	100	<10	100	15	50	N
80SD219C	15	N	N	50	<20	100	>2,000	N	200	<10	<20	N
80SD220C	20	N	N	30	<20	50	>2,000	N	150	<10	<20	N
80SD221C	10	N	N	30	<20	50	1,500	N	200	<10	<20	N
80SD222C	10	100	N	50	<20	50	1,000	N	100	<10	<20	N
80SD223C	15	200	N	30	<20	30	>2,000	10	150	<10	100	N
80SD224C	15	100	N	30	<20	30	>2,000	N	150	<10	50	N
80SD225C	15	200	N	50	150	50	700	N	100	<10	5,000	N
80SD226C	15	<20	N	50	100	50	>2,000	N	100	<10	50	N
80SD227C	50	<20	N	20	<20	20	>2,000	500	100	<10	2,000	N
80SD228C	30	>2,000	N	30	200	500	2,000	200	70	<10	300	N
80SD229C	30	N	N	30	20	100	>2,000	N	200	<10	<20	N
80SD230C	10	300	N	30	50	50	>2,000	<10	200	<10	100	N
80SD231C	10	N	N	20	20	30	>2,000	N	200	<10	<20	N
80PE300N	10	N	N	20	200	30	150	20	N	30	100	N
80PE301N	50	N	N	30	<20	20	>2,000	20	150	50	100	N
80PE302N	200	N	N	100	<20	100	>2,000	15	150	50	200	N
80PE303N	15	N	N	30	<20	70	>2,000	15	200	30	200	N
80PE304N	50	N	N	30	20	70	>2,000	N	150	10	300	N
80PE305N	70	50	N	20	30	50	2,000	50	100	15	50	N
80PE306N	50	<20	N	30	100	70	300	200	N	50	200	N
80PE308N	20	<20	N	50	<20	30	1,500	20	200	15	100	N
80PE309N	15	N	N	30	<20	30	>2,000	N	200	70	70	N
80PE310N	5	N	N	30	100	30	500	15	50	<10	100	N
80PE311N	70	50	N	20	20	20	500	50	<50	<10	300	N
80PE313N	5	N	N	20	30	20	100	30	N	<10	200	N
80PE314N	20	N	N	15	30	10	200	20	N	<10	50	N
80PE315N	50	50	N	20	100	15	500	70	50	<10	70	N
80PE316N	100	N	N	50	150	50	>2,000	100	100	50	300	N
80PE317N	15	N	N	50	20	70	>2,000	N	700	100	50	N
80PE319N	7	<20	N	20	20	200	300	10	50	<10	300	N
80PE320N	15	20	N	50	70	100	200	70	50	<10	300	N
80PE321N	10	N	N	30	50	100	200	50	50	<10	100	N
80PE323N	5	N	N	50	30	100	200	50	<50	<10	300	N
80PE324N	10	N	N	20	20	70	300	20	100	<10	200	N
80PE325N	15	50	N	50	150	100	150	150	150	50	500	N
80PE326N	10	20	N	150	20	1,000	500	50	100	70	500	N
80PE328N	10	N	N	50	100	150	300	20	70	20	300	N
80PE329N	7	N	N	30	200	100	500	10	100	15	1,000	N
80PE330N	5	<20	N	20	30	50	300	N	50	15	2,000	N
80PE331N	5	N	N	30	100	50	100	N	100	20	200	N
80PE332N	7	200	N	20	20	70	1,000	<10	200	20	200	N
80PE333N	5	N	N	30	200	30	300	<10	100	20	300	N
80PE334N	5	N	N	50	500	150	300	N	100	20	200	N
80PE335N	7	N	N	<10	700	30	200	N	70	20	50	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-SC	S-SN	S-SK	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
80SD217C	20	<20	500	100	100	100	N	2,000	300
80SD219C	10	500	N	50	<100	>5,000	N	>2,000	>5,000
80SD220C	>200	200	N	100	200	1,500	N	>2,000	>5,000
80SD221C	200	300	N	100	200	1,500	N	>2,000	>5,000
80SD222C	200	1,500	N	50	<100	>5,000	N	>2,000	>5,000
80SD223C	200	2,000	N	50	1,000	>5,000	N	>2,000	>5,000
80SD224C	<100	50	N	50	<100	>5,000	N	>2,000	>5,000
80SD225C	150	>2,000	N	50	<100	1,500	N	>2,000	>5,000
80SD226C	>200	500	N	100	N	>5,000	N	>2,000	>5,000
80SD227C	150	500	N	100	1,000	1,500	N	>2,000	>5,000
80SD228C	200	2,000	N	50	1,000	>5,000	N	>2,000	>5,000
80SD229C	10	1,500	N	50	N	>5,000	N	>2,000	>5,000
80SD230C	10	>2,000	N	50	1,500	>5,000	N	>2,000	>5,000
80SD231C	200	N	N	50	<100	>5,000	N	>2,000	>5,000
80PE300N	20	<20	500	200	<100	100	N	1,000	N
80PE301N	200	500	230	50	<100	>5,000	N	>2,000	>5,000
80PE302N	>200	700	200	70	200	>5,000	N	>2,000	>5,000
80PE303N	200	700	200	70	700	>5,000	N	>2,000	>5,000
80PE304N	10	500	200	50	N	>5,000	N	>2,000	>5,000
80PE305N	150	70	300	100	500	500	N	>2,000	1,500
80PE306N	30	50	500	200	500	200	N	700	300
80PE308N	<100	>2,000	200	100	200	3,000	N	>2,000	>5,000
80PE309N	10	1,500	200	70	200	>5,000	N	>2,000	>5,000
80PE310N	20	<20	500	100	<100	200	N	1,500	500
80PE311N	20	<20	500	100	300	200	N	2,000	1,000
80PE313N	15	N	500	100	<100	100	N	700	N
80PE314N	10	50	500	50	100	150	N	500	N
80PE315N	20	<20	700	70	500	300	N	1,500	700
80PE316N	100	150	200	70	1,000	>5,000	N	>2,000	>5,000
80PE317N	10	200	200	50	<100	>5,000	N	>2,000	>5,000
80PE319N	30	N	500	70	<100	200	500	2,000	700
80PE320N	20	70	700	100	500	200	N	1,500	N
80PE321N	50	N	700	100	<100	200	N	2,000	N
80PE323N	30	N	500	100	N	200	N	2,000	N
80PE324N	30	50	500	150	N	200	N	>2,000	N
80PE325N	50	70	700	150	300	300	N	>2,000	N
80PE326N	20	>2,000	700	500	<100	300	N	>2,000	<200
80PE328N	30	100	500	300	<100	200	N	>2,000	N
80PE329N	30	<20	500	1,000	100	300	N	>2,000	N
80PE330N	30	N	300	700	<100	200	N	>2,000	500
80PE331N	30	N	300	500	<100	200	N	>2,000	N
80PE332N	50	<20	700	500	<100	500	N	>2,000	1,000
80PE333N	30	N	500	700	<100	500	N	>2,000	N
80PE334N	30	70	2,000	200	<100	500	N	>2,000	N
80PE335N	100	<20	200	200	N	500	N	>2,000	N

Table 5.--Analyses of heavy-mineral--concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FEX	S-MGX	S-CAX	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
80PE336N	31 49 54	109 51 3	10.0	.20	.50	>2.000	5,000	N	N	N	200	>10,000
80PE339N	31 49 5	109 53 47	20.0	1.00	1.00	>2.000	2,000	N	N	N	70	10,000
80PE341N	31 48 53	109 52 4	10.0	.15	.50	>2.000	2,000	N	N	N	100	7,000
80PE342N	31 47 32	109 51 58	10.0	.70	3.00	>2.000	2,000	N	N	N	50	700
80PE343N	31 47 13	109 51 21	15.0	.15	5.00	>2.000	3,000	N	N	N	30	>10,000
80PE344N	31 46 39	109 50 1	20.0	.10	.20	>2.000	1,000	N	N	N	50	3,000
80PE345N	31 50 19	109 54 6	20.0	.30	2.00	>2.000	700	N	N	N	100	700
80PE346N	31 50 22	109 53 57	20.0	.50	2.00	>2.000	5,000	N	N	N	50	5,000
80PE347N	31 50 33	109 54 56	20.0	.20	1.50	>2.000	2,000	N	N	N	100	>10,000
80PE348N	31 50 30	109 54 54	15.0	1.00	3.00	>2.000	2,000	N	N	N	150	1,000
80PE349N	31 46 58	109 50 21	10.0	.15	5.00	>2.000	5,000	N	N	N	20	10,000
80PE350N	31 46 18	109 50 5	20.0	.20	.50	>2.000	1,000	N	N	N	50	>10,000
80PE351N	31 46 15	109 51 46	10.0	.10	1.50	>2.000	700	N	N	N	20	>10,000
80PE353N	31 46 29	109 48 38	20.0	.07	3.00	>2.000	700	7	N	N	50	>10,000
80PE354N	31 46 22	109 48 28	50.0	<.05	.30	.200	500	500	N	N	100	1,500
80PE355N	31 45 38	109 48 26	15.0	.10	10.00	1.000	5,000	N	N	N	20	2,000
80PE356N	31 45 20	109 48 11	10.0	.20	5.00	>2.000	700	N	<500	N	70	7,000
81D10U	31 58 46	110 2 47	3.0	5.00	10.00	2.000	700	N	N	N	<20	300
81B95	31 58 41	110 0 31	5.0	.50	.50	>2.000	500	N	N	N	50	200
81B94	31 58 37	110 0 29	15.0	.70	15.00	2.000	300	<1	N	N	N	>10,000
81D101	32 0 46	109 59 54	10.0	1.00	20.00	>2.000	3,000	N	N	N	100	1,500
81B70	31 59 13	109 59 5	10.0	.70	7.00	>2.000	1,500	N	N	N	100	300
81B69	31 58 46	109 59 17	10.0	.30	1.50	>2.000	700	N	N	N	N	<50
81B71	31 58 40	109 58 28	5.0	1.00	10.00	2.000	300	N	N	N	20	500
81B38	31 58 29	109 58 44	10.0	2.00	10.00	>2.000	500	N	N	N	50	150
81B67	31 58 22	109 50 46	7.0	10.00	50.00	1.000	1,500	5	N	N	N	100
81B64	31 58 30	109 58 3	10.0	5.00	15.00	2.000	1,500	20	N	N	30	200
81B65	31 57 44	109 50 53	.1	<.05	.15	<.005	<20	N	N	N	N	N
81B66	31 57 41	109 59 3	10.0	7.00	50.00	1.500	2,000	N	N	N	70	1,500
81B63	31 57 25	109 57 7	5.0	1.50	15.00	2.000	3,000	N	N	N	300	50
81B53	31 56 6	109 57 37	7.0	7.00	20.00	2.000	3,000	N	N	N	100	200
81B52	31 55 33	109 58 0	15.0	.20	1.00	>2.000	5,000	N	N	N	150	<50
81B51	31 54 30	109 57 48	3.0	7.00	20.00	>2.000	3,000	N	N	N	150	1,500
81B50	31 54 33	109 57 58	3.0	2.00	15.00	>2.000	3,000	N	N	N	50	100
81B49	31 54 28	109 58 8	7.0	7.00	20.00	1.500	3,000	N	N	N	20	150
81B48	31 54 41	109 58 34	7.0	5.00	20.00	2.000	5,000	N	N	N	150	300
81B47	31 54 44	109 58 35	10.0	2.00	30.00	>2.000	3,000	N	N	N	200	150
81B62	31 56 33	109 56 23	20.0	.15	.70	>2.000	10,000	N	N	N	N	70
81B59	31 56 21	109 56 0	10.0	.15	.70	>2.000	500	N	N	N	N	70
81B58	31 56 4	109 55 38	15.0	.20	.70	>2.000	3,000	N	N	N	N	70
81B54	31 55 38	109 54 54	3.0	.07	.30	1.500	2,000	N	N	N	N	70
80S22	31 52 45	109 57 31	3.0	7.00	20.00	>2.000	3,000	15	N	N	150	150
8008	31 51 46	109 59 4	5.0	15.00	50.00	>2.000	5,000	N	N	N	70	500
8007	31 52 15	109 59 12	3.0	.20	.70	>2.000	1,000	N	N	N	<20	50
80S30	31 52 26	109 58 48	2.0	2.00	7.00	>2.000	700	N	N	N	150	200

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
80PE336N	7	N	N	30	700	100	300	N	100	20	300	N
80PE339N	5	N	N	30	300	30	150	N	70	20	300	N
80PE341N	10	N	N	10	50	100	1,000	15	100	15	200	N
80PE342N	7	N	N	20	20	700	200	<10	150	10	100	N
80PE343N	15	200	N	70	20	3,000	300	N	150	20	7,000	N
80PE344N	7	N	N	15	150	70	500	N	50	10	100	N
80PE345N	5	N	N	30	150	100	500	<10	70	15	500	N
80PE346N	10	N	N	30	500	70	200	10	100	15	500	N
80PE347N	10	N	N	30	300	500	300	200	200	15	10,000	N
80PE348N	5	20	N	50	200	150	100	30	100	20	300	N
80PE349N	10	N	N	30	<20	150	500	20	200	10	200	N
80PE350N	7	200	N	150	20	1,000	300	70	150	15	300	N
80PE351N	7	100	N	30	<20	200	150	10	100	10	200	N
80PE353N	2	150	N	30	<20	7,000	200	N	100	30	5,000	N
80PE354N	<2	50	N	50	<20	7,000	N	N	N	50	5,000	N
80PE355N	5	<20	N	30	20	1,500	200	N	50	30	3,000	N
80PE356N	3	50	N	20	100	300	200	50	200	15	500	N
81D100	3	N	N	10	100	<10	300	N	50	10	100	N
81B95	2	N	N	30	150	70	<50	15	50	10	500	N
81B94	3	N	N	500	150	70	300	N	N	200	3,000	N
81D101	7	N	N	20	150	100	300	20	<50	70	200	N
81B70	2	N	N	30	200	70	500	30	50	100	200	N
81B69	<2	N	N	N	100	100	<50	N	<50	100	300	N
81B71	N	N	N	10	100	10	50	N	50	20	150	N
81B38	N	N	N	10	200	15	70	N	70	50	70	N
81B67	<2	50	N	15	150	70	300	500	<50	70	1,500	N
81B64	<2	20	N	20	150	100	100	150	150	50	15,000	N
81B65	N	N	N	N	50	N	<50	N	N	<10	N	N
81B66	5	20	N	20	500	50	150	70	50	70	500	N
81B63	20	300	N	<10	100	10	500	70	150	30	150	N
81B53	10	N	N	15	100	30	500	N	70	20	150	N
81B52	14	500	N	10	50	20	>2,000	N	200	<10	200	N
81B51	15	N	N	10	100	<10	1,000	30	150	<10	150	N
81B50	15	N	N	N	50	10	1,000	15	500	<10	150	N
81B49	5	N	N	20	100	70	50	500	50	20	700	N
81B48	15	300	N	15	200	50	200	700	70	70	1,500	N
81B47	5	200	N	70	200	70	500	10	500	50	500	N
81B62	N	N	N	<10	70	20	>2,000	N	150	20	200	N
81B59	N	N	N	<10	50	15	>2,000	10	150	50	150	N
81B58	15	100	N	<10	100	20	1,000	N	300	15	150	N
81B54	N	200	N	<10	20	10	>2,000	N	N	20	70	N
80S22	5	150	N	<10	1,000	20	100	150	<50	10	5,000	N
80D8	7	50	N	<10	70	10	50	100	N	15	300	N
80D7	200	N	N	N	50	10	>2,000	N	200	50	100	N
80S30	N	N	N	N	300	20	100	150	<50	10	700	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]									
Sample	S-SC	S-Si	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
80PE336N	100	20	1,500	300	<100	700	N	>2,000	N
80PE339N	30	<20	N	1,000	100	100	N	>2,000	N
80PE341N	150	30	300	200	<100	700	N	>2,000	700
80PE342N	30	<20	500	200	100	150	N	700	200
80PE343N	150	<20	1,500	700	150	2,000	N	>2,000	>5,000
80PE344N	150	20	<200	500	<100	1,000	N	>2,000	500
80PE345N	20	N	<200	1,000	<100	100	N	>2,000	N
80PE346N	30	N	500	500	<100	150	N	>2,000	N
80PE347N	70	N	1,000	300	100	300	N	>2,000	<200
80PE348N	50	N	700	300	<100	100	N	>2,000	N
80PE349N	150	100	1,000	300	200	2,000	N	>2,000	>5,000
80PE350N	20	N	1,500	150	150	100	N	1,500	200
80PE351N	15	50	2,000	100	100	100	N	2,000	300
80PE353N	10	700	2,000	100	200	200	N	2,000	200
80PE354N	N	1,000	N	50	<100	50	<500	2,000	N
80PE355N	20	1,500	500	100	N	200	N	>2,000	N
80PE356N	70	70	700	300	100	300	N	>2,000	1,000
81D10U	15	<20	200	100	<100	150	N	>2,000	N
81B95	15	30	N	150	500	300	N	>2,000	N
81B94	10	N	700	100	500	150	7,000	>2,000	N
81D101	10	N	300	200	<100	150	1,500	>2,000	N
81B70	15	N	N	200	100	300	N	>2,000	200
81B69	<10	N	N	300	N	100	N	>2,000	N
81B71	20	N	N	150	200	100	N	>2,000	N
81B38	50	N	N	200	<100	700	N	>2,000	N
81B67	15	N	700	200	1,000	150	N	>2,000	300
81B64	15	N	700	300	700	200	N	>2,000	<200
81B65	<10	N	N	20	N	N	N	20	N
81B66	15	N	500	300	5,000	300	N	>2,000	<200
81B63	150	1,500	N	100	200	5,000	N	>2,000	5,000
81B53	15	20	300	150	N	500	N	>2,000	700
81B52	150	200	N	70	N	>5,000	N	>2,000	>5,000
81B51	>0	70	N	100	1,000	700	N	>2,000	1,000
81B50	150	100	N	70	100	1,000	N	>2,000	700
81B49	15	20	300	200	3,000	150	N	>2,000	N
81B48	15	70	200	300	1,500	300	N	>2,000	N
81B47	150	1,500	200	300	300	700	N	>2,000	500
81D62	150	700	N	150	N	3,000	N	>2,000	1,000
81B59	150	>2,000	N	100	N	5,000	N	>2,000	3,000
81B58	150	>2,000	N	200	N	3,000	N	>2,000	1,000
81B54	50	>2,000	N	30	N	5,000	N	>2,000	>5,000
80S22	15	70	N	200	200	500	N	>2,000	N
80D8	10	30	N	100	500	150	N	700	200
80D7	50	300	N	50	N	5,000	N	>2,000	2,000
80S30	50	30	N	200	100	700	N	>2,000	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE			LONGITUDE			S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
80D66	31	55	44	109	59	58	3.0	2.00	15.00	2.000	1,500	N	N	N	100	50
81D97	35	0	17	110	0	31	2.0	2.00	15.00	>2.000	700	70	N	N	N	10,000

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]												
Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SB
00006	100	300	N	N	100	15	300	100	50	20	100	N
01097	15	70	N	10	150	50	100	100	<50	15	3,000	N

Table 5.--Analyses of heavy-mineral-concentrate samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]									
Sample	S-SC	S-SN	S-SK	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
30066	50	100	N	150	1,000	2,000	N	>2,000	1,000
81097	15	150	N	150	5,000	700	N	>2,000	<200

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FE%	S-Mg%	S-CA%	S-Ti%	S-MN	S-AG	S-AS	S-AU	S-P	S-Ba
76PE101	31 34 1	109 55 23	10.0	.5	2.00	.30	5,000	N	N	N	<10	150
76PE102	31 35 12	109 55 0	7.0	.1	.20	.70	>5,000	N	N	N	<10	100
78PE103	31 36 49	109 57 11	7.0	.3	1.00	.70	3,000	N	N	N	<10	200
78PE104	31 36 34	109 57 16	1.5	2.0	15.00	.10	1,500	<.5	N	N	10	150
78PE105	31 38 31	109 58 27	2.0	1.5	10.00	.30	700	.5	N	N	30	300
73PE106	31 39 23	109 58 0	3.0	1.0	7.00	.50	700	<.5	N	N	<0	300
76C0105	32 0 21	109 57 55	3.0	.7	10.00	.30	1,000	<.5	N	N	50	300
78C0104	32 0 32	109 57 54	1.5	.7	10.00	.30	700	N	N	N	50	300
78C0105	32 1 27	109 57 32	2.0	1.0	15.00	.30	1,000	.5	N	N	50	200
79C0106	32 1 10	109 59 20	2.0	1.5	7.00	.20	700	N	N	N	50	500
79C0107	32 2 24	109 59 43	5.0	1.5	2.00	.30	1,000	N	N	N	30	1,000
79C0108	32 3 36	109 59 27	2.0	1.5	15.00	.20	1,000	N	N	N	50	500
79C0109	32 4 56	109 59 55	2.0	1.0	10.00	.20	700	N	N	N	30	700
79C0111	32 7 36	109 58 10	1.5	1.5	15.00	.20	700	N	N	N	50	300
79C0112	32 8 1	109 58 36	3.0	1.0	7.00	.30	1,000	N	N	N	50	700
79C0113	32 9 21	109 57 33	2.0	.7	15.00	.10	700	N	N	N	30	300
80D6400	32 0 36	110 0 12	3.0	1.0	3.00	.20	500	N	N	N	30	200
80D6401	32 0 21	110 0 41	3.0	2.0	5.00	.15	700	N	N	N	<10	200
80D6402	32 0 6	110 6 5	2.0	.5	1.00	.15	700	N	N	N	20	300
80D6403	32 0 42	110 7 29	10.0	.2	1.00	.50	>5,000	N	N	N	20	500
80D6404	32 1 19	110 8 19	2.0	.5	1.00	.15	700	N	N	N	<10	700
80D6405	32 1 35	110 5 59	2.0	.7	1.00	.15	700	N	N	N	10	500
80D6406	32 2 0	110 5 29	7.0	.2	1.00	.70	1,000	N	N	N	10	500
80D6407	32 0 49	110 5 38	3.0	.7	2.00	.20	700	N	N	N	10	200
80D6408	32 1 23	110 4 9	5.0	1.5	3.00	.20	1,000	N	N	N	10	300
80D6409	32 1 20	110 4 21	1.0	.2	1.00	.20	700	N	N	N	10	500
80D6410	32 1 40	110 4 36	3.0	1.0	2.00	.20	1,000	N	N	N	<10	700
80D6411	32 1 37	110 4 41	2.0	.5	1.00	.30	700	N	N	N	10	500
80D6412	32 0 47	110 4 14	5.0	.7	2.00	.50	1,500	N	N	N	10	500
80D6413	32 0 13	110 5 35	5.0	.7	1.00	.20	700	N	N	N	10	500
80D6414	32 0 9	110 6 33	7.0	.5	1.00	.20	1,500	N	N	N	10	500
80D6415	32 2 30	110 3 6	2.0	.5	1.50	.15	700	N	N	N	10	500
80D6416	32 3 17	110 2 36	3.0	.5	2.00	.30	700	N	N	N	20	700
80D6417	32 4 18	110 2 53	3.0	.5	1.00	.30	700	N	N	N	30	200
80D6418	32 5 34	110 4 45	5.0	1.0	1.50	.50	700	N	N	N	30	200
80D6419	32 5 27	110 4 56	3.0	.7	.70	.20	700	N	N	N	50	500
80D6420	32 5 48	110 4 41	5.0	.7	1.00	.50	1,000	N	N	N	10	300
80D6421	32 6 19	110 5 0	3.0	2.0	10.00	.15	700	N	N	N	10	500
80D6422	32 6 45	110 3 49	2.0	1.0	3.00	.15	1,500	N	N	N	10	150
80D6423	32 6 45	110 3 21	3.0	1.0	3.00	.20	1,000	N	N	N	<0	200
80D6424	32 6 36	110 3 21	3.0	1.0	3.00	.20	1,000	N	N	N	<0	200
80D6425	32 5 59	110 4 47	7.0	2.0	10.00	.15	5,000	3.0	N	N	<10	200
80D6426	32 5 55	110 3 23	7.0	2.0	3.00	.70	2,000	N	N	N	<10	200
80D6427	32 5 35	110 5 58	7.0	.5	1.00	.30	1,000	N	N	N	<10	150
80D6428	32 5 0	110 3 35	3.0	1.0	2.00	.30	1,500	N	N	N	10	150
80D6429	32 5 20	110 3 35	3.0	.5	1.00	.20	700	N	N	N	<10	200
80D6430	32 4 54	110 4 27	3.0	.5	1.00	.20	700	N	N	N	<10	200

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]												
Sample	S-Uc	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-MB	S-MI	S-PB	
78PE101	2.0	N	N	N	30	10	700	N	N	<5	70	
78PE102	5.0	N	<20	N	20	20	>1,000	N	N	<5	100	
78PE103	2.0	N	<20	15	30	50	1,000	N	<20	<5	70	
78PE104	2.0	N	N	5	70	20	<20	N	N	10	70	
78PE105	1.0	N	N	5	70	50	<20	N	N	15	150	
78PE106	<1.0	N	N	7	70	20	<20	<5	N	15	50	
78CU103	<1.0	N	N	7	70	20	70	N	N	20	50	
78CU104	<1.0	N	N	5	50	30	50	N	N	10	50	
78CU105	<1.0	N	N	7	70	20	50	N	N	15	150	
79C0106	<1.0	N	N	7	150	70	50	N	N	20	50	
79C0107	<1.0	N	N	15	300	200	70	N	N	70	50	
79C0108	<1.0	N	N	5	150	50	50	N	N	20	50	
79C0109	<1.0	N	N	5	200	50	50	N	N	30	70	
79C0111	<1.0	N	N	5	100	50	<20	10	N	15	30	
79C0112	<1.0	N	N	7	150	30	50	N	N	10	30	
79C0113	<1.0	N	N	7	150	50	30	N	N	30	30	
80B6400	1.0	N	N	10	30	20	N	N	N	20	20	
80B6401	2.0	N	N	10	30	20	20	N	N	15	50	
80B6402	3.0	N	N	5	N	7	>1,000	N	N	5	50	
80B6403	3.0	N	N	7	20	30		N	N	5	30	
80B6404	3.0	N	N	5	N	20	20	N	N	5	30	
80B6405	3.0	N	N	5	N	30	20	5	N	5	50	
80B6406	3.0	N	N	7	10	30	500	N	20	<5	50	
80B6407	3.0	N	N	7	20	30	150	N	N	10	20	
80B6408	5.0	N	N	10	50	50	30	N	N	15	10	
80B6409	3.0	N	N	5	N	15	20	N	N	5	20	
80B6410	3.0	N	N	10	20	50	30	N	N	10	30	
80B6411	3.0	N	N	5	N	10	150	N	N	5	30	
80B6412	3.0	N	N	7	30	30	200	N	20	5	30	
80B6413	3.0	N	N	10	50	50	200	N	N	15	50	
80B6414	3.0	N	N	7	30	20	150	N	N	7	30	
80B6415	3.0	N	N	5	10	10	30	N	N	15	15	
80B6416	3.0	N	N	<5	N	10	300	N	N	<5	30	
80B6417	5.0	N	N	<5	N	30	20	N	N	<5	20	
80B6420	2.0	N	N	15	50	100	20	5	N	15	15	
80B6421	3.0	N	N	15	30	50	20	N	N	15	10	
80B6422	2.0	N	N	15	30	150	20	N	N	15	15	
80B6423	2.0	N	N	10	30	150	20	N	N	10	20	
80B6424	2.0	N	N	5	70	200	20	N	N	20	20	
80B6425	2.0	N	N	15	50	200	20	N	N	20	20	
80B6426	3.0	N	N	20	20	1,500	20	20	N	10	10	
80B6427	10.0	N	N	15	30	1,500	20	15	N	10	50	
80B6428	3.0	N	N	N	N	10	300	N	N	N	50	
80B6429	5.0	N	N	10	20	150	20	5	N	5	10	
80B6430	3.0	N	N	N	N	20	20	N	N	<5	30	

Table 6.--Analyses of stream-sediment samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]										
Sample	S-SB	S-SC	S-SM	S-SR	S-V	S-W	S-Y	S-LN	S-ZR	S-TH
78PE101	N	15	30	N	50	<50	300	200	100	--
78PE102	N	15	30	N	15	<50	300	<200	150	--
78PE103	N	10	30	<100	70	N	200	<200	150	--
78PE104	N	5	N	300	20	N	50	N	70	--
78PE105	N	7	N	300	50	N	20	N	100	--
78PE106	N	7	N	200	100	N	20	N	70	--
78C0103	N	7	N	300	70	N	20	N	150	--
78C0104	N	7	N	200	50	N	20	N	100	--
78C0105	N	7	N	200	70	N	20	N	100	--
79C0107	N	15	N	700	100	N	30	N	100	N
79C0108	N	7	N	300	50	N	20	N	150	N
79C0109	N	7	N	300	50	N	20	N	150	N
79C0111	N	5	N	200	50	N	15	N	150	N
79C0112	1	5	N	200	100	N	15	N	150	N
79C0113	N	5	N	200	50	N	15	N	100	N
80D6400	N	5	N	200	70	N	20	N	150	N
80D6401	N	5	N	100	30	N	20	N	100	N
80D6402	N	<5	N	500	30	N	30	N	150	N
80D6403	N	5	N	500	150	N	700	N	500	150
80D6404	N	5	N	300	30	N	20	N	150	N
80D6405	N	<5	N	500	30	N	10	N	150	N
80D6406	N	5	N	500	150	N	500	N	300	N
80D6407	N	5	N	200	100	N	30	N	200	N
80D6408	N	5	N	100	100	N	30	N	300	N
80D6409	N	5	N	200	30	N	20	N	150	N
80D6410	N	7	N	500	50	N	20	N	200	N
80D6411	N	5	N	200	50	N	30	N	200	N
80D6412	N	7	N	200	150	N	100	N	300	N
80D6413	N	7	N	200	150	N	500	N	150	N
80D6414	N	5	N	200	150	N	30	N	150	N
80D6415	N	5	N	200	30	N	20	N	150	N
80D6416	N	5	N	1,000	50	N	20	N	150	N
80D6417	N	5	N	500	50	N	10	N	150	N
80D6420	N	7	N	N	100	N	20	N	150	N
80D6421	N	7	N	100	50	N	20	N	200	N
80D6422	N	7	N	N	100	N	30	N	200	N
80D6423	N	5	N	100	30	N	30	N	150	N
80D6424	N	5	N	100	30	N	20	N	150	N
80D6425	N	5	N	100	50	N	30	<200	200	N
80D6426	N	5	10	100	30	100	30	2,000	200	N
80D6427	N	7	N	100	150	N	30	300	300	N
80D6428	N	5	N	500	100	500	200	N	200	N
80D6429	N	5	N	N	70	N	30	N	500	N
80D6430	N	<5	N	500	20	N	70	N	150	N

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

sample	LATITUDE	LONGITUDE	S-FE4	S-Mb4	S-CA%	S-Ti%	S-MN	S-AG	S-AS	S-AU	S-S	S-BA
0UDG431	32 5 2	110 4 39	10.0	.3	.70	.70	1,500	N	N	N	10	150
0UDG432	32 5 16	110 5 25	3.0	2.0	2.00	.30	700	N	N	N	30	200
0UDG433	32 5 12	110 5 39	7.0	.7	1.00	.30	700	N	N	N	>0	200
0UDG434	32 3 44	110 6 17	2.0	.5	1.50	.15	700	N	N	N	<10	200
0UDG435	32 3 42	110 6 27	3.0	.5	1.00	.20	700	N	N	N	<10	200
0UPE200	31 55 47	109 59 46	3.0	2.0	5.00	.10	700	N	N	N	<10	70
0UPE201	31 55 53	109 59 42	3.0	.3	1.00	.30	1,000	N	N	N	<10	100
0UPE202	31 51 38	109 56 52	2.0	.5	.70	.15	500	N	N	N	20	200
0UPE203	31 51 44	109 56 58	1.0	.3	.50	.15	500	N	N	N	20	300
0UPE204	31 51 49	109 57 18	1.0	.3	1.00	.15	700	N	N	N	20	200
0UPE205	31 52 22	109 56 1	2.0	.5	1.50	.15	700	N	N	N	20	300
0UPE206	31 51 27	109 56 14	1.0	1.0	10.00	.15	500	N	N	N	10	150
0UPE207	31 51 33	109 58 24	1.0	1.0	10.00	.10	500	N	N	N	10	150
0UPE208	31 50 49	109 57 11	1.0	1.0	7.00	.15	300	N	N	N	20	150
0UPE209	31 50 35	109 57 49	1.0	2.0	10.00	.10	500	N	N	N	10	150
0UPE210	31 50 19	109 57 12	1.0	2.0	5.00	.10	500	N	N	N	10	150
0UPE211	31 51 26	109 57 53	1.0	.7	10.00	.10	500	N	N	N	<10	100
0UPE212	31 51 33	110 0 17	15.0	.1	.50	.70	1,500	N	N	N	10	100
0UPE213	31 51 8	109 59 23	2.0	1.0	5.00	.10	500	N	N	N	<10	150
0UPE214	31 51 1	109 59 44	3.0	.7	2.00	.20	700	N	N	N	<10	150
0UPE215	31 52 45	109 58 47	3.0	.7	2.00	.15	1,000	N	N	N	30	150
0UPE216	31 52 42	109 58 38	2.0	.5	1.50	.20	1,000	N	N	N	<0	200
0UPE217	31 52 35	109 58 54	2.0	.7	1.50	.15	1,000	N	N	N	<0	150
0UPE218	31 49 32	109 56 5	2.0	.7	3.00	.15	700	N	N	N	20	150
0UPE219	31 48 50	109 55 44	3.0	.7	3.00	.20	700	N	N	N	20	150
0UPE220	31 46 20	109 54 54	3.0	.7	1.00	.20	700	N	N	N	>0	150
0UPE221	31 46 42	109 55 12	3.0	2.0	3.00	.20	1,000	N	N	N	30	150
0UPE222	31 45 17	109 53 54	3.0	.7	1.00	.50	700	N	N	N	15	300
0UPE223	31 45 57	109 54 10	3.0	.7	.50	.30	700	N	N	N	<10	200
0UPE224	31 46 35	109 54 37	3.0	.7	1.00	.30	700	N	N	N	20	200
0UPE225	31 47 18	109 54 58	3.0	.7	1.00	.30	500	N	N	N	30	150
0USD200	31 59 17	110 1 0	3.0	.3	.15	.20	500	N	N	N	30	150
0USD201	31 59 17	110 0 54	3.0	.7	1.00	.20	500	N	N	N	30	200
0USD202	31 59 36	110 1 2	3.0	.5	.50	.20	500	N	N	N	30	200
0USD203	31 59 36	110 2 27	5.0	.3	1.00	.20	700	N	N	N	20	300
0USD204	31 57 24	110 2 47	2.0	.5	1.00	.15	500	N	N	N	<10	200
0USD205	31 57 6	110 2 42	2.0	1.0	10.00	.15	200	N	N	N	<10	150
0USD206	31 56 53	110 2 51	3.0	2.0	10.00	.15	700	N	N	N	<10	200
0USD207	31 56 49	110 2 43	3.0	.5	1.00	.20	700	N	N	N	<10	200
0USD208	31 57 36	110 1 50	2.0	1.0	5.00	.15	200	N	N	N	10	150
0USD209	31 57 46	110 1 43	2.0	1.0	2.00	.15	700	N	N	N	10	200
0USD210	31 57 31	110 1 11	2.0	1.0	3.00	.20	500	N	N	N	10	200
0USD211	31 57 56	110 1 7	2.0	1.0	5.00	.10	200	N	N	N	<10	100
0USD212	31 57 49	110 1 19	3.0	1.0	.70	.20	500	N	N	N	<0	300
0USD213	31 57 53	110 1 24	2.0	1.0	3.00	.15	500	N	N	N	10	200

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]												
sample	S-BE	S-BI	S-CD	S-LO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	
30D6431	5.0	N	N	5	10	15	1,000	N	20	5	30	
30D6432	2.0	N	N	10	20	30	20	N	N	15	20	
30D6433	1.0	N	N	10	50	20	20	N	N	20	20	
30D6434	3.0	N	N	N	N	10	50	N	N	<5	20	
30D6435	2.0	N	N	N	10	7	500	N	N	<5	20	
30PE200	3.0	N	N	N	N	10	100	N	N	5	20	
30PE201	7.0-	N	N	5	N	10	100	N	50	<5	30	
30PE202	2.0	N	N	5	10	20	20	N	N	5	30	
30PE203	2.0	N	N	5	N	10	50	N	N	5	20	
30PE204	1.0	N	N	5	20	15	N	N	N	5	50	
30PE205	2.0	N	N	5	N	15	20	N	N	5	20	
30PE206	1.0	N	N	5	30	15	20	N	N	10	10	
30PE207	2.0	N	N	5	15	10	50	N	N	5	20	
30PE208	1.0	N	N	5	20	20	20	N	N	10	20	
30PE209	1.0	N	N	5	20	15	20	N	N	10	50	
30PE210	1.0	N	N	5	15	20	20	N	N	5	30	
30PE211	1.0	N	N	N	20	10	20	N	N	10	10	
30PE212	3.0	N	N	5	N	10	500	N	N	<5	30	
30PE213	2.0	N	N	5	20	15	20	N	N	10	10	
30PE214	7.0	N	N	5	10	10	30	N	50	5	30	
30PE215	15.0	10	N	10	20	20	N	N	N	10	50	
30PE216	3.0	N	N	10	15	50	20	N	N	10	30	
30PE217	15.0	N	N	5	N	20	20	N	30	5	30	
30PE218	1.0	N	N	5	30	15	20	N	N	10	30	
30PE219	4.0	N	N	10	30	30	20	N	N	10	30	
30PE220	5.0	N	N	15	50	50	20	5	N	<0	30	
30PE221	3.0	N	N	10	30	20	30	N	N	15	30	
30PE222	3.0	N	N	10	30	50	30	N	20	15	30	
30PE223	1.0	N	N	10	20	20	20	N	N	10	10	
30PE224	2.0	N	N	5	10	15	N	N	N	5	20	
30PE225	1.0	N	N	15	70	20	N	N	N	15	20	
30SD200	2.0	20	N	10	30	10	N	N	N	10	10	
30SD201	2.0	N	N	15	30	10	N	N	N	10	20	
30SD202	3.0	N	N	10	30	50	20	N	N	10	10	
30SD203	3.0	N	N	10	50	50	100	N	N	10	20	
30SD204	2.0	N	N	5	10	10	N	N	N	5	10	
30SD205	1.0	N	N	10	20	10	N	N	N	7	20	
30SD206	3.0	N	N	10	50	10	150	N	N	5	50	
30SD207	5.0	N	N	5	20	10	150	N	50	<5	50	
30SD208	1.0	N	N	5	20	10	20	N	N	5	30	
30SD209	5.0	N	N	5	30	20	20	N	N	10	100	
30SD210	1.0	N	N	5	20	10	20	N	N	5	10	
30SD211	1.0	N	N	5	20	10	50	N	N	5	50	
30SD212	3.0	N	N	10	30	15	20	N	N	5	20	
30SD213	2.0	N	N	10	70	15	20	N	N	10	50	

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]										
Sample	S-SB	S-SC	S-SN	S-SR	S-SV	S-SW	S-SY	S-SLN	S-SZR	S-SIH
00D6451	N	5	N	<10	100	N	70	N	700	N
00D6452	N	7	N	N	100	N	20	N	200	N
00D6453	N	7	N	N	100	N	30	<200	150	N
00D6454	N	N	N	500	20	N	10	N	150	N
00D6455	N	<5	N	500	50	N	50	N	200	N
00PE200	N	N	10	100	30	N	50	N	100	N
00PE201	N	5	10	N	30	N	70	N	200	N
00PE202	N	5	N	100	30	N	20	N	150	N
00PE203	N	<5	N	100	30	N	10	N	150	N
00PE204	N	<5	N	100	30	N	10	N	150	N
00PE205	N	5	N	N	50	N	20	N	150	N
00PE206	N	5	N	200	30	N	20	N	100	N
00PE207	N	<5	N	150	30	N	20	N	70	N
00PE208	N	<5	N	150	30	N	20	N	100	N
00PE209	N	<5	N	150	30	N	10	N	70	N
00PE210	N	<5	N	100	20	N	10	N	100	N
00PE211	N	<5	N	100	30	N	10	N	70	N
00PE212	N	7	20	100	70	N	500	N	500	150
00PE213	N	N	N	100	30	N	10	N	70	N
00PE214	N	5	N	N	30	N	70	N	200	N
00PE215	N	<5	30	100	30	N	10	<200	150	N
00PE216	N	<5	10	100	50	N	20	<200	200	N
00PE217	N	<5	N	N	30	N	70	200	100	N
00PE218	N	<5	N	N	30	N	10	N	100	N
00PE219	N	5	N	100	30	N	20	N	150	N
00PE220	N	7	N	N	50	500	10	N	150	N
00PE221	N	7	N	100	70	N	20	N	200	N
00PE222	N	7	N	150	70	N	20	N	200	N
00PE223	N	5	N	100	50	N	30	N	100	N
00PE224	N	5	N	N	30	N	10	N	100	N
00PE225	N	7	N	N	100	N	20	N	100	N
00SD200	N	<5	N	N	30	N	10	N	150	N
00SD201	N	5	N	N	50	N	20	<200	150	N
00SD202	N	5	N	N	50	N	20	<200	150	N
00SD203	N	5	N	100	50	N	30	<200	200	N
00SD204	N	5	N	100	30	N	10	N	200	N
00SD205	N	<5	N	<100	30	N	10	N	100	N
00SD206	N	5	N	100	30	N	30	N	200	N
00SD207	N	5	10	N	30	N	50	N	200	N
00SD208	N	<5	N	150	30	50	10	N	100	N
00SD209	N	<5	N	100	30	N	20	500	200	N
00SD210	N	5	N	200	30	N	20	N	100	N
00SD211	N	<5	N	<100	30	N	10	N	100	N
00SD212	N	7	N	100	50	N	20	N	150	N
00SD213	N	5	N	100	30	N	10	N	150	N

Table 6.--Analyses of stream-sediment samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]													
Sample	LATITUDE	LONGITUDE	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU	S-P	S-BA	
30SD214	31 54 48	110 2 9	2.0	.3	.70	.20	1,000	N	N	N	<10	150	
30SD215	31 55 18	110 1 0	2.0	.3	.50	.20	1,000	N	N	N	10	100	
30SD216	31 55 55	110 0 42	3.0	.5	1.00	.30	700	N	N	N	10	150	
30SD217	31 55 23	110 1 23	1.0	1.0	15.00	.10	500	N	N	N	10	150	
30SD218	31 54 36	110 2 44	1.0	.3	.70	.15	700	N	N	N	<10	150	
30SD219	31 53 55	110 2 47	10.0	.3	.10	.70	1,000	N	N	N	10	100	
30SD220	31 53 18	110 2 30	5.0	.3	.20	.70	1,000	N	N	N	10	150	
30SD221	31 52 46	110 2 18	2.0	.3	.50	.20	700	N	N	N	<10	150	
30SD222	31 52 46	110 1 37	5.0	.3	.50	.50	1,000	N	N	N	<10	150	
30SD223	31 53 5	110 1 1	5.0	.2	.20	.50	1,500	N	N	N	10	150	
30SD224	31 53 20	110 1 3	7.0	.2	.20	.70	1,500	N	N	N	10	200	
30SD225	31 52 37	110 1 29	1.0	.3	.20	.10	200	N	N	N	<10	200	
30SD226	31 52 3	110 1 14	3.0	.2	.20	.50	700	N	N	N	<10	200	
30SD227	31 53 30	110 0 35	7.0	.3	1.00	.50	700	N	N	N	30	100	
30SD228	31 54 12	110 0 3	3.0	.7	1.50	.20	700	N	N	N	<10	100	
30SD229	31 54 9	110 0 27	7.0	.3	.50	.50	1,500	N	N	N	10	20	
30SD230	31 53 42	110 0 42	10.0	.3	.20	1.00	5,000	N	N	N	30	20	
30SD231	31 51 57	110 0 20	3.0	.3	.50	.50	1,000	N	N	N	<10	150	
30PE300	31 58 5	109 57 13	2.0	1.0	5.00	.20	700	N	N	N	20	200	
30PE301	31 56 53	109 57 39	7.0	.3	.70	.70	1,500	N	N	N	10	150	
30PE302	31 55 16	109 56 5	5.0	.3	.70	.50	1,000	N	N	N	<10	150	
30PE303	31 55 30	109 57 41	5.0	.3	.50	.50	1,000	N	N	N	10	150	
30PE304	31 54 57	109 57 44	5.0	.3	.70	.50	1,500	N	N	N	10	100	
30PE305	31 54 56	109 57 45	2.0	.5	1.00	.30	1,000	N	N	N	10	150	
30PE306	31 54 40	109 57 47	3.0	.7	2.00	.30	1,000	N	N	N	10	200	
30PE308	31 56 24	109 55 56	2.0	.3	.70	.20	700	N	N	N	10	150	
30PE309	31 56 36	109 56 12	5.0	.2	.50	.50	1,000	N	N	N	10	100	
30PE310	31 53 42	109 55 23	3.0	.7	3.00	.20	1,000	N	N	N	30	200	
30PE311	31 52 56	109 55 18	3.0	.7	5.00	.20	700	N	N	N	50	150	
30PE313	31 53 13	109 55 34	3.0	1.0	10.00	.20	1,000	N	N	N	10	200	
30PE314	31 53 29	109 55 56	3.0	2.0	5.00	.20	1,000	N	N	N	10	150	
30PE316	31 53 47	109 54 34	5.0	.3	.70	.50	1,000	N	N	N	<10	150	
30PE317	31 54 6	109 55 25	7.0	.3	.50	.70	5,000	N	N	N	10	150	
30PE326	31 53 46	109 49 55	3.0	.7	1.00	.30	700	N	N	N	30	200	
30PE330	31 48 0	109 52 33	10.0	.7	1.00	.70	1,000	N	N	N	20	200	
30PE331	31 48 6	109 52 35	3.0	.7	1.50	.20	700	N	N	N	20	200	
30PE332	31 48 2	109 52 11	3.0	.7	1.50	.30	700	N	N	N	10	200	
30PE333	31 50 42	109 52 2	2.0	.5	2.00	.20	700	N	N	N	30	200	
30PE334	31 50 57	109 52 5	2.0	.7	1.00	.20	700	N	N	N	30	200	
30PE335	31 50 0	109 51 34	1.0	.3	.70	.20	200	N	N	N	20	150	
30PE336	31 49 54	109 51 3	.5	.1	.20	.10	500	N	N	N	<10	100	
30PE339	31 49 5	109 53 47	3.0	.7	5.00	.20	700	N	N	N	50	200	
30PE340	31 49 0	109 53 32	3.0	.7	3.00	.20	700	N	N	N	30	300	
30PE341	31 48 53	109 52 4	1.0	.5	.20	.20	200	N	N	N	50	200	
30PE342	31 47 32	109 51 58	3.0	.7	1.00	.20	1,000	N	N	N	20	300	

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]												
Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	
60SD214	5.0	N	N	5	N	5	150	N	30	<5	50	
60SD215	5.0	N	N	5	N	10	200	N	70	<5	30	
60SD216	5.0	N	N	5	10	10	200	N	50	<5	30	
60SD217	5.0	N	N	5	20	10	20	N	20	5	20	
60SD218	5.0	N	N	5	N	10	100	N	30	<5	30	
60SD219	N	N	N	10	10	10	>1,000	N	70	5	30	
60SD220	5.0	N	N	5	N	10	300	N	100	5	30	
60SD221	3.0	N	N	5	N	10	200	N	20	<5	20	
60SD222	3.0	N	N	5	10	10	500	N	100	<5	20	
60SD223	5.0	N	N	N	N	10	500	N	70	<5	30	
60SD224	3.0	N	N	N	N	10	700	N	70	<5	30	
60SD225	1.0	N	N	N	N	7	N	N	N	<5	30	
60SD226	7.0	N	N	5	N	7	200	N	50	<5	20	
80SD227	7.0	N	N	5	20	20	500	N	70	<5	50	
80SD228	2.0	N	N	N	10	20	70	N	20	<5	30	
60SD229	1.0	10	N	N	10	20	1,000	N	50	<5	50	
80SD230	20.0	10	N	N	10	15	>1,000	N	70	<5	70	
80SD231	10.0	N	N	5	N	15	200	N	70	<5	30	
80PE300	3.0	N	N	10	50	20	20	N	N	15	70	
80PE301	15.0	N	N	N	N	15	500	N	200	<5	30	
80PE302	15.0	N	N	10	N	15	1,000	N	70	<5	20	
80PE303	15.0	N	N	5	N	15	500	N	100	<5	20	
80PE304	15.0	N	N	N	N	10	500	N	100	<5	30	
80PE305	15.0	N	N	N	N	15	200	N	50	<5	30	
80PE306	20.0	N	N	15	20	50	50	7	20	<0	30	
80PE308	15.0	N	N	N	N	10	50	N	50	<5	30	
80PE309	15.0	N	N	N	N	15	1,000	N	100	<5	20	
80PE310	5.0	N	N	10	30	20	20	N	N	<5	30	
80PE311	15.0	N	N	5	20	10	20	N	20	7	20	
80PE313	3.0	N	N	5	30	15	20	N	N	5	50	
80PE314	7.0	N	N	5	20	10	70	N	N	<5	30	
80PE316	15.0	N	N	N	N	15	1,000	N	100	<5	30	
80PE317	20.0	N	N	15	N	10	>1,000	N	200	<5	30	
80PE320	7.0	N	N	10	30	70	20	N	N	<0	50	
80PE330	2.0	N	N	20	70	50	20	N	N	15	70	
80PE331	3.0	N	N	7	10	15	N	N	N	5	20	
80PE332	3.0	N	N	10	20	30	20	N	N	5	20	
80PE333	3.0	N	N	5	30	15	20	N	N	5	20	
80PE334	3.0	N	N	5	30	50	20	N	N	10	20	
80PE335	1.0	N	N	5	20	10	20	N	N	<5	<10	
80PE336	1.0	N	N	N	10	5	N	N	N	<5	N	
80PE339	3.0	N	N	7	30	30	20	N	N	15	30	
80PE340	3.0	N	N	7	10	30	20	N	N	10	50	
80PE341	5.0	N	N	5	10	7	100	N	N	5	<10	
80PE342	5.0	N	N	10	N	70	30	N	N	5	20	

Table 6.--Analyses of stream-sediment samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]											
Sample	S-SB	S-SC	S-SM	S-SK	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH	
8USD214	N	5	N	N	10	N	70	N	200	N	
8USD215	N	>	10	N	20	N	70	N	200	N	
8USD216	N	7	10	100	30	N	70	N	200	N	
8USD217	N	<5	N	>00	20	N	20	N	100	N	
8USD218	N	5	N	N	10	N	50	N	150	N	
8USD219	N	15	30	N	30	N	200	N	1,000	300	
8USD220	N	15	100	N	30	N	100	N	300	100	
8USD221	N	5	N	N	20	N	70	N	300	N	
8USD222	N	7	15	N	30	N	100	N	300	300	
8USD223	N	5	30	N	30	N	500	N	500	200	
8USD224	N	10	30	N	30	N	200	N	500	200	
8USD225	N	<5	N	N	10	N	30	N	70	N	
8USD226	N	5	10	N	30	N	100	N	500	200	
8USD227	N	7	30	N	30	N	150	N	500	150	
8USD228	N	5	20	N	15	N	50	N	100	N	
8USD229	N	10	70	N	30	N	700	N	700	300	
8USD230	N	10	70	N	50	N	700	N	500	500	
8USD231	N	7	15	N	30	N	100	N	500	N	
8UPE300	N	5	N	>00	50	N	20	200	200	N	
8UPE301	N	7	30	N	30	N	500	<200	700	200	
8UPE302	N	7	10	N	100	N	150	200	500	200	
8UPE303	N	7	15	N	30	N	500	<200	500	100	
8UPE304	N	10	15	N	20	N	150	<200	700	150	
8UPE305	N	5	N	100	20	N	50	N	300	N	
8UPE306	N	10	N	150	150	N	70	<200	300	N	
8UPE308	N	5	10	N	20	N	30	N	200	N	
8UPE309	N	7	15	N	20	N	500	N	1,000	200	
8UPE310	N	7	N	150	50	N	30	<200	200	N	
8UPE311	N	5	N	100	30	N	30	N	150	N	
8UPE313	N	5	N	300	50	N	30	<200	100	N	
8UPE314	N	5	N	150	30	N	50	<200	500	N	
8UPE316	N	7	10	N	20	N	150	<200	500	150	
8UPE317	N	10	20	N	30	N	700	500	700	700	
8UPE326	N	7	N	100	100	N	30	<200	200	N	
8UPE330	N	10	N	100	300	N	30	200	500	N	
8UPE331	N	5	N	100	70	N	20	N	200	N	
8UPE332	N	7	N	200	100	N	30	<200	200	N	
8UPE333	N	5	N	N	50	N	30	N	300	N	
8UPE334	N	5	N	N	50	N	20	N	200	N	
8UPE335	N	5	N	N	20	N	20	N	500	N	
8UPE336	N	<5	N	N	10	N	<10	N	200	N	
8UPE339	N	5	N	100	50	N	30	N	150	N	
8UPE340	N	7	N	100	70	N	30	<200	200	N	
8UPE341	N	<5	N	N	20	N	30	N	200	N	
8UPE342	N	7	N	>00	100	N	10	N	150	N	

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB
80PE344	5.0	N	N	7	15	15	30	N	30	<5	10
80PE345	5.0	N	N	7	20	30	20	N	20	10	20
80PE346	5.0	N	N	5	20	15	20	N	20	7	30
80PE347	5.0	N	N	10	20	70	20	N	20	10	30
80PE348	5.0	N	N	10	50	70	30	N	N	15	50
80PE349	5.0	N	N	5	N	10	30	N	N	5	10
80PE350	5.0	N	N	10	N	100	20	5	N	5	20
80PE351	3.0	N	N	15	20	70	50	N	N	10	20
80PE352	3.0	N	N	7	10	50	30	N	N	5	20
80PE353	3.0	10	N	15	20	1,500	20	N	N	5	70
80PE354	3.0	N	N	7	20	700	20	N	N	15	70
80PE355	3.0	N	N	5	N	50	20	N	N	<5	70
80PE356	2.0	N	N	7	20	30	30	N	30	5	30
80PE315	10.0	N	N	<5	<10	15	200	N	70	10	100
80PE319	2.0	N	N	5	20	150	50	5	N	20	150
80PE320	5.0	N	N	10	20	20	150	5	50	15	100
80PE321	3.0	N	N	20	50	200	100	15	N	30	100
80PE323	2.0	N	N	15	30	30	70	<5	N	20	100
80PE324	2.0	N	N	10	30	20	30	N	N	20	50
80PE325	5.0	N	N	15	30	50	30	<5	N	20	100
80PE326	2.0	N	N	15	70	50	30	N	N	15	50
80PE329	2.0	N	N	15	50	30	30	N	<20	30	70
30PE345	5.0	<10	N	15	20	50	70	N	N	15	200
81D100	1.5	N	N	5	50	20	50	N	N	15	30
81B95	1.5	N	N	20	70	50	70	N	<20	30	70
81B94	20.0	N	N	5	70	20	20	N	N	10	50
81D101	1.5	N	N	10	100	30	30	<5	<20	30	30
81B70	1.5	N	N	7	70	30	30	N	<20	20	50
81B69	1.5	N	N	7	50	30	30	N	<20	15	50
81B71	1.5	N	N	7	70	30	30	N	<20	20	30
81B68	1.5	N	N	7	70	30	20	N	N	<10	50
81B67	1.5	N	N	5	70	50	20	N	N	15	70
81B64	1.5	N	N	7	50	30	20	N	N	20	100
81B65	2.0	N	N	7	100	50	30	N	<20	30	70
81B66	2.0	N	N	5	70	30	20	N	<20	30	70
81B63	10.0	N	N	5	30	20	30	N	70	5	100
81B53	5.0	N	N	7	30	30	50	N	20	5	70
81B52	7.0	N	N	5	30	20	300	N	70	<5	70
81B51	7.0	N	N	7	30	20	100	N	20	10	70
81B50	7.0	N	N	5	15	20	200	<5	70	5	100
81B49	5.0	N	N	20	50	70	70	N	<20	30	100
81B48	3.0	N	N	20	100	70	30	N	<20	30	50
81B47	3.0	N	N	20	50	50	70	N	20	20	70
81B62	7.0	N	N	N	15	20	500	N	100	<5	70
81B59	5.0	N	N	<5	20	20	100	N	100	<5	70

Table 6.--Analyses of stream-sediment samples from the Dragon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-Sb	S-Sc	S-Su	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th
80PE344	N	7	N	N	150	N	50	N	100	N
80PE345	N	5	N	N	100	N	30	N	200	N
80PE346	N	5	N	100	150	N	50	N	500	N
80PE347	N	5	N	N	50	N	30	<200	300	N
80PE348	N	10	N	100	70	N	30	N	200	N
80PE349	N	5	N	150	70	N	30	N	150	N
80PE350	N	5	N	150	50	N	10	200	150	N
80PE351	N	5	N	150	70	N	20	N	200	N
80PE352	N	5	N	150	70	N	20	N	200	N
80PE353	N	7	N	300	200	N	30	300	300	N
80PE354	N	5	N	100	70	N	10	500	100	N
80PE355	N	5	N	100	70	N	10	<200	100	N
80PE356	N	5	N	100	70	N	30	<200	100	N
80PE315	N	20	N	200	20	N	100	N	500	N
80PE319	N	20	N	200	70	N	50	200	300	N
80PE320	N	30	50	300	100	50	100	<200	>1,000	N
80PE321	N	30	N	300	100	<50	70	N	500	N
80PE323	N	30	N	200	100	N	50	N	1,000	N
80PE324	N	15	N	N	50	N	20	N	200	N
80PE325	N	20	N	<100	70	N	30	<200	300	N
80PE328	N	15	N	<100	70	N	20	N	500	N
80PE329	N	20	N	150	100	N	30	N	500	N
80PE343	N	15	N	200	100	<50	30	<200	300	100
810100	N	7	N	200	70	N	30	N	200	N
81895	N	10	N	N	100	N	50	N	300	N
81894	N	7	N	200	30	N	20	N	150	N
810101	N	10	N	200	70	N	30	N	300	N
81870	N	7	N	200	70	N	30	N	200	N
81869	N	7	N	150	70	N	20	N	150	N
81871	N	7	N	150	70	N	20	N	200	N
81868	N	7	N	300	70	N	20	N	300	N
81867	N	7	N	500	70	N	20	N	150	N
81864	N	7	N	500	70	N	20	N	150	N
81865	N	10	N	500	70	N	20	N	150	N
81866	N	10	N	300	100	N	20	N	150	N
81863	N	5	20	N	20	N	100	N	300	N
81853	N	10	10	150	70	N	50	N	150	N
81852	N	10	30	N	50	N	300	N	500	<100
81851	N	15	10	500	70	N	100	N	300	N
81850	N	15	15	<100	50	N	200	N	700	<100
81849	N	20	10	500	300	N	50	N	150	N
81848	N	30	10	500	300	N	50	N	200	N
81847	N	30	50	200	300	N	70	N	300	N
81862	N	15	70	N	50	N	500	N	700	100
81859	N	15	20	N	30	N	70	N	500	N

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	LATITUDE	LONGITUDE	S-FEA	S-MG	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AU	S-J	S-BA
81b58	31 56 4	109 55 38	3.0	.5	.50	.50	1,000	N	N	N	15	300
81b54	31 55 50	109 54 54	15.0	.2	.30	1.00	2,000	N	N	N	N	100
80b22	31 52 45	109 57 31	5.0	1.0	5.00	.70	1,500	N	N	N	30	700
80b6	31 51 46	109 59 4	2.0	2.0	20.00	.20	1,500	N	N	N	10	200
80b7	31 52 15	109 59 12	5.0	.5	.70	.70	1,500	N	N	N	N	150
80530	31 52 26	109 58 48	3.0	.7	1.50	.30	1,500	N	N	N	50	700
80b66	31 55 44	109 59 58	7.0	1.5	1.50	.50	1,500	N	N	N	20	300
81b97	32 0 17	110 0 31	2.0	5.0	20.00	.20	1,000	N	N	N	20	200

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

Sample	S-Pb	S-Bi	S-Cl	S-Co	S-Cr	S-Cu	S-LA	S-MO	S-Nb	S-Ni	S-Pb
81B58	10.0	N	N	5	50	70	50	N	30	10	50
81B54	7.0	N	N	5	15	20	1,000	N	150	5	70
80B22	1.5	N	N	10	70	30	100	<5	20	10	150
80B8	2.0	<10	N	7	50	20	30	N	N	15	100
80B7	7.0	N	N	7	20	50	300	<5	100	5	300
80S30	2.0	N	N	7	70	30	50	N	<20	15	50
80B66	7.0	N	N	15	100	50	50	N	20	30	100
81B97	1.5	N	N	5	50	20	30	N	N	15	70

Table 6.--Analyses of stream-sediment samples from the Dragoon Mountains Roadless Area and contiguous areas, Cochise County, Arizona (continued)

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown]

sample	S-SB	S-SC	S-SN	S-SK	S-V	S-W	S-Y	S-ZN	S-ZR	S-TH
01B58	N	10	15	N	70	N	150	N	300	N
01B54	N	15	50	N	50	N	300	N	1,000	300
00D22	N	20	10	500	150	N	70	N	300	N
30D8	N	7	<10	200	30	N	50	N	150	N
80D7	N	10	30	N	30	N	300	N	>1,000	<100
00S30	N	7	N	<100	70	N	20	N	150	N
00D66	N	20	10	<100	150	N	70	N	150	N
01D97	N	7	N	200	50	N	20	N	150	N