UNITED STATES DEPARTMENT OF THE INTERIOR
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Paper version of analytical results, and basic statistics and sample locality map of stream-sediment, heavy-mineral-concentrate, rock, creosote-bush, palo verde, and Bacillus cereus samples from the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, Arizona

By

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Bureau of Land Management Wilderness Study Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and the U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine their mineral values, if any. 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 Swansea (AZ-050-015A), Planet Peak (AZ-050-013), Gibraltar Mountain (AZ-050-012), Cactus Plain (AZ-050-014A/B), and East Cactus Plain (AZ-050-017) Wilderness Study Areas.

INTRODUCTION

The U.S. Geological Survey (USGS) conducted geochemical studies in the Swansea, Planet Peak, and Gibraltar Mountain Wilderness Study Areas (WSAs) in the spring of 1988. Studies of the Cactus Plain and East Cactus Plain WSAs were begun in 1987; vegetation and soil sampling were conducted in Cactus Plain and East Cactus Plain in the fall of 1988. Interpretations of these data were used in assessing potential mineral resources of the WSAs and are found in Tosdal and others (1990a, 1990b) and Eppinger and others (1990a, 1990b). The information contained in this USGS Open-File Report is also available in digital format as ASCII text and .DBF data files on 1.2 Mb, 5.25-inch diskette (Eppinger and others, 1990c).

Acreages and county locations for the 5 WSAs are summarized below:

AREA	ACREAGES	Mi^2	Km^2	COUNTY
Swansea	11,795	18.4	47.7	northern La Paz and southern Mohave
Planet Peak	16,430	25.7	66.6	northern La Paz
Gibraltar Mountain	15,675	24.5	63.5	northern La Paz
Cactus Plain	53,270	83.2	215	northern La Paz
East Cactus Plain	13,735	21.5	55.7	northern La Paz.

The 5 WSAs are all located near and to the east of Parker, AZ (Figure 1). Perimeters of the areas are accessible by several gravel roads. The Osborne Wash Road, Swansea Road, and powerline road along Bill Williams River lead from State Highways 95 and 72 near Parker to the vicinity of the WSAs. Secondary gravel roads and 4-wheel drive trails branch off from these main roads and provide fairly good access to WSA boundaries. Interiors of the WSAs are generally accessible only by foot or pack animal.

The region has an arid to semi-arid climate, with summer temperatures commonly above 100° F and precipitation of generally less than 4.5 in (11.4 cm) per year. The sparse desert vegetation is predominantly creosote-bush and white bur-sage, with lesser amounts of cacti and grasses. Tree-sized palo verde are found along the dry washes. Ironwood and mesquite are less common.

Relief is variable in the rugged Swansea, Planet Peak, and Gibraltar Mountain WSAs, but is minimal in the nearly flat Cactus Plain and East Cactus Plain WSAs. Elevations range from 3141 ft (957 m) at Planet Peak to less than 800 ft (244 m) along the Bill Williams River in the north-central part of the Swansea WSA and near the southwestern corner of the Cactus Plain WSA.

The wilderness study areas are located in the Sonoran Desert portion of the Basin and Range physiographic province, in the Buckskin Mountains of west-central Arizona. The Buckskin Mountains are part of the Harcuvar metamorphic core complex and contain extensive exposures of the Tertiary Buckskin-Rawhide detachment fault, a discontinuous, low-angle, undulating, large-displacement

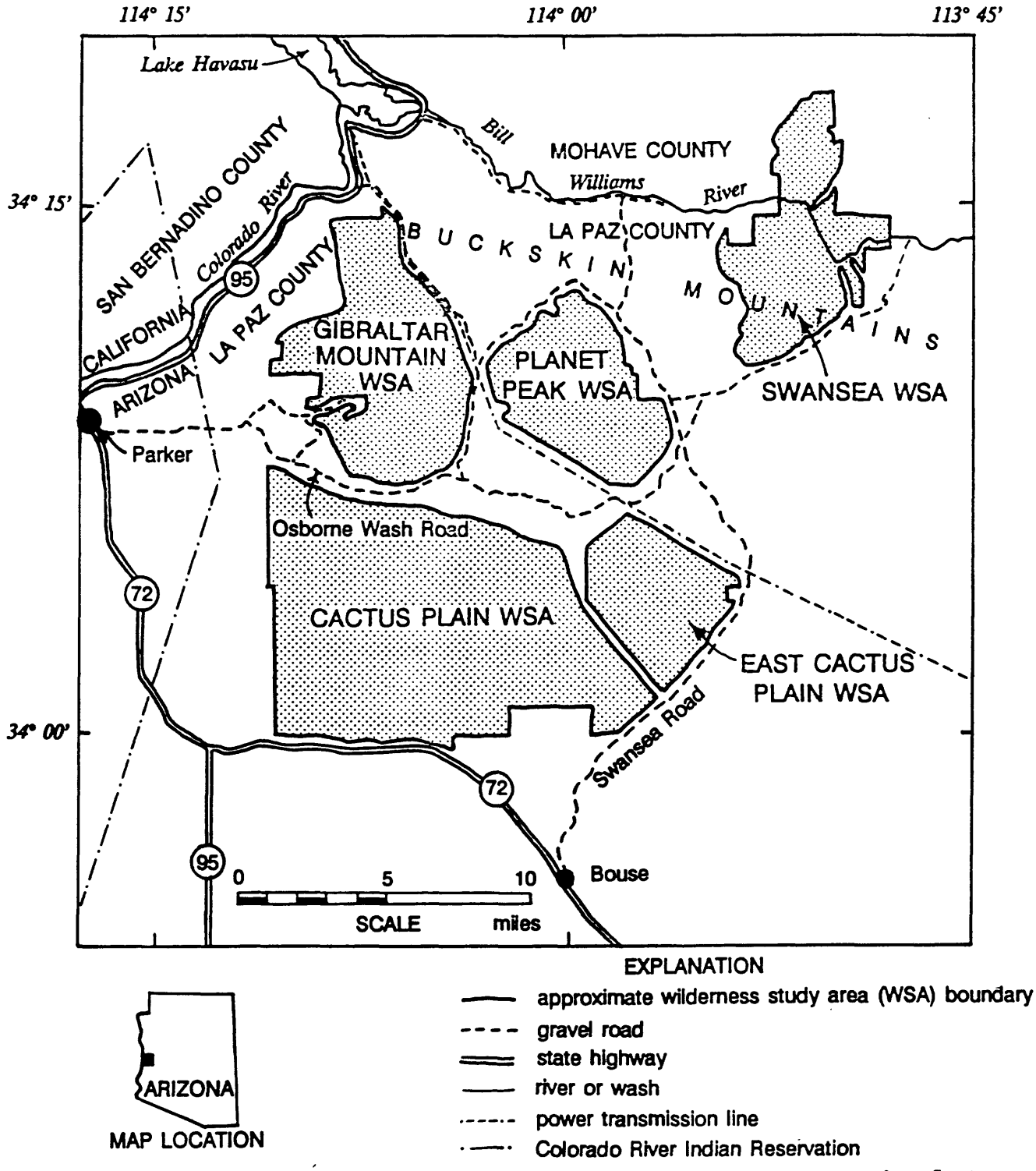

Figure 1. Locations of the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, Arizona.

normal fault (Spencer and Reynolds, 1989). The detachment fault juxtaposes lower plate variably mylonitic crystalline and metasedimentary rocks against upper plate variably deformed and metamorphosed pre- and syn-detachment sedimentary and volcanic rocks (Spencer and Reynolds, 1989). Post-detachment sedimentary and volcanic rocks occur locally. Mineral deposits spatially and likely genetically associated with the detachment fault are numerous in the Buckskin Mountains (Spencer and Welty, 1986, 1989; Spencer and Reynolds, 1989).

The Swansea and Planet Peak WSAs are underlain principally by Proterozoic to Tertiary lower plate, mylonitic, gneissic and granitic rocks. The detachment fault and upper plate Mesozoic metasedimentary rocks are exposed locally. Post-detachment Tertiary basalt crops out in the northern part of the Swansea WSA. The Gibraltar Mountain WSA is underlain almost exclusively by post-detachment Tertiary basalt; exposures of upper plate crystalline rocks, lower plate mylonitic rocks, and the detachment fault are sparse. The Cactus Plain and East Cactus Plain WSAs occupy a broad alluvium- and dune-covered plain immediately south of bedrock exposed in the Gibraltar Mountain and Planet Peak WSAs. Outcrops within the Cactus Plain and East Cactus Plain WSAs are sparse, covering less than 1 percent of the land surface. Outcrop in the Cactus Plain WSA includes pre-detachment upper plate Paleozoic metasedimentary rocks and post-detachment Tertiary basalt, while outcrop in the East Cactus Plain WSA is limited to lower-plate mylonitic crystalline rocks (Spencer, 1989).

METHODS OF STUDY

Sample Media

Principal sample media for Swansea, Planet Peak, and Gibraltar Mountain WSAs were stream sediments and heavy-mineral concentrates from stream sediments, supplemented by rock samples. However, the Cactus Plain and East Cactus Plain WSAs were not amenable to this type of conventional geochemical approach because of extensive alluvial and eolian cover. Principal sample media for the Cactus Plain and East Cactus Plain WSAs were creosote-bush (*Larrea tridentata* [DC.] Coville); two species of palo verde, blue palo verde (*Cercidium floridum* Benth.) and little-leaf palo verde (*Cercidium microphyllum* [Torr.] Rose & Johnston); and soil samples for determining the spore content of the soil bacterium *Bacillus cereus*. These were supplemented by rock, stream-sediment, and heavy-mineral concentrate samples collected only in areas of exposed bedrock.

Analyses of stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying basins containing concentrations of elements that may be related to mineral deposits. Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

Analyses of unaltered or unmineralized rock samples provide background geochemical data for individual rock units. On the other hand, analyses of altered or mineralized rocks, where present, may provide useful geochemical information about the major- and trace-element assemblages associated with a mineralizing system.

Analyses of vegetation provide information on soluble metals that are available at depth in areas where bedrock is concealed by alluvium and dunes. Creosote-bush, a relatively shallow-rooted desert plant, was suitable because of its widespread distribution throughout the area. Palo verdes, particularly blue palo verde, are more deep-rooted plants, and may indicate areas of local mineralization where no evidence appears in the surface overburden (Cohen and others, 1985). Both creosote-bush and palo verde have been used in exploration for concealed deposits elsewhere in the Basin and Range province (Busche, 1989; Chaffee, 1976, 1977).

The original discovery of *Bacillus cereus* anomalies in mineralized soil is discussed in Watterson and others (1986). These findings were the basis for further investigations on the potential use of *B. cereus* in mineral exploration by Parduhn and others (1986) and Parduhn (1987). *B. cereus* counts in soils are currently being used with variable success in exploration programs in the Basin and Range Province and in western Australia.

Sample Collection

Stream sediments and heavy-mineral concentrates were collected both within and in some cases peripheral to the WSAs. Both media were collected at the same sites from active, generally first-order drainages (at 1:24,000 scale). The area of drainage basins sampled in the Swansea, Planet Peak, and Gibraltar Mountain WSAs generally ranged from less than 0.5 mi^2 (1.3 km^2) to just over 1 mi^2 (2.6 km^2), while the sampled drainage basins for the Cactus Plain and East Cactus Plain WSAs have areas less than 0.5 mi^2 (1.3 km^2), limited by bedrock exposure. Quantities of stream-sediment and heavy-mineral-concentrate sites and site densities are summarized below (sediment and concentrate site densities for the Cactus Plain and East Cactus Plain WSAs are not meaningful because of the scant sample sites):

Area	No. of sites	Site density
Swansea	55	3 sites/mi^2
Planet Peak	36	1.4 sites/mi^2
Gibraltar Mountain	41	1.4 sites/mi^2
Cactus Plain	16	not applicable
East Cactus Plain	2	not applicable

Creosote-bush and palo verde vegetation samples, and soils for *B. cereus* counts, were collected at 80 sites in and around the contiguous Cactus Plain and East Cactus Plain WSAs. A total of 67 rocks was collected from the 5 WSAs. Sample sites for the 5 WSAs are shown on Plate 1.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS 1:24,000-scale topographic maps. Each sample was collected as a composite from several localities within an area extending as much as 50 ft (15 m) from the site plotted on the map.

Heavy-mineral-concentrate samples

Heavy-mineral-concentrate samples were collected from the same alluvial sample sites as the stream-sediment samples. Each bulk sample was screened at the sample site with a 2.0-mm (10-mesh) screen to remove the coarse material. The less than 2.0-mm fraction (weighing approximately 10 lb [4.5 kg]) was

panned with a 14-in gold pan until most of the quartz, feldspar, organic material, and clay-sized material were removed. The samples were then air dried.

Rock samples

Composite chip and grab rock samples were collected from prospects, altered zones, and outcrops near plotted site locations. Descriptions of rock samples analyzed are given in Table 11.

Vegetation samples

Vegetation sample sites were generally confined to shallow arroyos or washes. For creosote-bush, branch-tip samples stripped by hand from three adjacent shrubs were composited into a single sample at each site. These samples were predominantly leaf tissue with some admixture of fine twigs. For palo verde trees, no one species was as widespread as creosote-bush, but with few exceptions at least one of the two palo verde species was sampled at each site. Single palo verde trees were sampled at each site, by cutting about 8-in (20-cm) lengths of branch ends with garden pruners. Branch ends were collected by compositing from around the entire palo verde tree. For the more riparian blue palo verde, leaves and stems were combined; but for the more drought tolerant little-leaf palo verde, the sample consisted almost entirely of stem material because the leaves appear only after significant rainfall. Blue palo verde was found at 42 sites and little-leaf palo verde was found at 36 sites. Five extra samples of creosote-bush were collected in faults and shear zones, and multiple samples were collected at several of the mines and prospects outside the WSAs. For plants, duplicate samples were collected at 10 sites to assess the within-site variability; one of the duplicate samples from these sites was later split after the sample was milled to estimate analytical precision. In all, a total of 98 creosote-bush, 55 blue palo verde, and 43 little-leaf palo verde samples were collected.

Soil samples for Bacillus cereus counts

Surface soils for *B. cereus* spore counts were collected from single pits at most of the vegetation sites. Samples were collected below the edge of palo verde canopies. The top 1-in (3-cm) layer of soil was scraped away and the sample was collected by sieving through a stainless steel 30-mesh (.59 mm) screen. The less-than 30-mesh fraction was later further sieved through a 60-mesh (.25 mm) stainless steel screen and the spore count was estimated on the fine fraction. Spore determinations were made in the Denver USGS laboratories following the method outlined by Watterson (1985). As with vegetation samples, duplicate soil samples were collected at 10 sites to assess within-site variability. A total of 90 soil samples were collected for determining *B. cereus* spore content.

Sample Preparation

The stream-sediment samples were air dried, then sieved using 30-mesh stainless-steel sieves. The portion of the sediment passing through the sieve was then pulverized and saved for analysis.

Panned concentrate samples were sieved with 16-mesh (1.2 mm) stainless steel screens and residual light minerals remaining in the less-than 16-mesh fractions were removed by heavy liquid flotation (bromoform, specific gravity 2.8). The resultant heavy-mineral concentrate sample was separated into three fractions using a large electromagnet (in this case a modified Frantz

Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The slightly magnetic fraction, containing largely ferromagnesian silicates and iron oxides, was hand ground for spectrographic analysis. The nonmagnetic fraction, which generally concentrates ore and ore-related minerals, zircon, sphene, barite, etc., was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These three magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and ilmenite, and a current of 0.6 ampere to split the remainder of the sample into slightly magnetic and nonmagnetic fractions.

Rock samples were coarse-crushed and passed through a Jones splitter. The rock samples were then pulverized to minus-100-mesh (0.15 mm). Quartz sand was run through the ceramic plate pulverizer between samples to minimize contamination.

Plant samples were washed, milled, and ashed at 450° C. Creosote-bush and palo verde samples were weighed before and after ashing for calculation of ash yields. Ash yield data are included in Tables 12 and 14 for creosote-bush and palo verde, respectively. Ash yields are effective in monitoring whether foreign particles have adhered to plant surfaces following the washing procedure. Following ashing, plant samples were acid-digested for analysis by three techniques (Table 2).

Sample Analysis

Spectrographic method

A modification of the semiquantitative, direct-current arc emission spectrographic methods of Grimes and Marranzino (1968) and Myers and others (1961) was used. Stream-sediment and rock samples were analyzed for 35 elements (Ag, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Ge, La, Mg, Mo, Mn, Na, Nb, Ni, P, Pb, Sb, Sc, Sn, Sr, Th, Ti, V, W, Y, Zn, and Zr). Slightly magnetic and nonmagnetic heavy-mineral-concentrate samples were analyzed for the same elements plus Pt and Pd. Determination limits for these elements are listed in Table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements, calcium, iron, magnesium, phosphorus, sodium, and titanium, are given in weight percent; all others are given in parts per million (micrograms/gram).

Chemical methods

In addition to the above elements, stream-sediment and rock samples were analyzed for selected possibly ore-related elements by analytical techniques with lower determination limits than those for emission spectrography. Most stream-sediment samples were analyzed for As, Bi, Cd, Sb, and Zn by inductively coupled plasma-atomic emission spectrometry (ICP-AES) and for Au by flame atomic absorption (AA). Rock samples were analyzed by ICP-AES for either a five-element suite (As, Bi, Cd, Sb, and Zn) or for a ten-element

suite (Ag, As, Au, Bi, Cd, Cu, Mo, Pb, Sb, and Zn). Most rock samples were analyzed for Au by either flame AA or graphite-furnace AA methods.

Creosote-bush and palo verde samples were analyzed by ICP-AES and graphite-furnace AA methods. A 100-mg aliquot of ashed sample was acid-digested and analyzed for 40 elements by ICP-AES (Al, Ca, Fe, K, Mg, Na, P, Ti, Mn, Ag, As, Au, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Eu, Ga, Ho, La, Li, Mo, Nb, Nd, Ni, Pb, Sc, Sn, Sr, Ta, Th, U, V, Y, Yb, and Zn). A 300-mg aliquot of ashed sample was acid-digested, extracted by a solution of 10 percent Aliquat 336 in diisobutyl ketone, and analyzed for Ag, As, Au, Bi, Cd, Cu, Mo, Pb, Sb, and Zn by 10-element ICP-AES. A 1-g aliquot of ashed sample was acid-digested and analyzed for low-level Au by graphite-furnace AA. Analytical methods used, lower determination limits, and references are summarized in Table 2.

DATA STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into either PLUTO or RASS, two computer data base systems used by the U.S. Geological Survey. These data bases contain both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

Included as a companion to this report are the same data and text in digital format, as .DBF (data) and ASCII (text) files on a 5.25-inch, 1.2 Mb diskette (Eppinger and others, 1990c). Requirements for reading the digital files are an IBM PC or a compatible PC using MS DOS, a 1.2 Mb 5.25-inch drive, and a database program able to import .DBF files.

DESCRIPTION OF DATA TABLES

Tables 3, 5, 7, 9, 12, 14, and 16 list the results of analyses for the samples of stream sediment, slightly magnetic heavy-mineral concentrate, nonmagnetic heavy-mineral concentrate, rock, creosote-bush, palo verde, and *Bacillus cereus*, respectively. Basic statistics for the analytical data for each of the sample media are given following each table of analytical results in Tables 4, 6, 8, 10, 13, 15, and 17. Thus, Table 4 contains basic statistics for stream-sediment sample results in Table 3, and so on. For the tables of analytical results, the data are arranged so that column 1 contains the USGS-assigned field numbers. These numbers correspond to the numbers shown on the site location map (Plate 1). Coding for the field numbers is as follows:

FIELD NUMBER PREFIX

SW	samples from within and near the Swansea WSA
PP or BM	samples from within and near the Planet Peak WSA
GM	samples from within and near the Gibraltar Mountain WSA
CA or CP	samples from within and near the Cactus Plain and East Cactus Plain WSAs

FIELD NUMBER SUFFIX

S	stream sediment
R	rock
HC2	slightly magnetic heavy-mineral concentrate
HC3	nonmagnetic heavy mineral-concentrate
C	creosote-bush
M	little-leaf palo verde

F	blue palo verde
D	soil samples for *B. cereus* population counts
A, B	these final letters in suffixes indicate sample site duplicates for creosote-bush, palo verde, and *B. cereus* samples
X or Y	this final letter in suffixes indicates special creosote-bush samples collected in faults and shear zones
1, 2,...	this final number in suffixes for rock, creosote, and palo verde samples indicates multiple samples (not site duplicates) of these media collected at the same site.

For example, sample SW001HC3 is a nonmagnetic heavy-mineral concentrate from the Swansea WSA; samples CA016CA and CA016CB are creosote-bush site duplicate samples from Cactus Plain/East Cactus Plain WSAs; samples CA078M1, CA078M2, and CA078M3 are multiple samples of little-leaf palo verde from the same site from Cactus Plain/East Cactus Plain WSAs.

Analytical techniques are identified for each element with suffixes as indicated below:

COLUMN IDENTIFIER (ELEMENT) SUFFIX	
-S	emission spectrography
-A	atomic absorption methods
-G	graphite furnace atomic absorption methods
-I	10-element inductively coupled plasma-atomic emission spectrometry
-C	40-element inductively coupled plasma-atomic emission spectrometry
-P	5-element inductively coupled plasma-atomic emission spectrometry

A letter "N" in the data tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element. For emission spectrographic and atomic absorption analyses, and for *B. cereus* spore counts, a letter "L" entered in the tables indicates that the element was observed but was below the indicated lower limit of determination. If an element was observed but was above the highest reporting value, a "G" was entered in the tables following the upper limit of determination. Elements not looked for in a sample are indicated by ".0B" in place of an analytical value.

ACKNOWLEDGEMENTS

One of our colleagues, Cliff Taylor, helped in sample collection under arduous field conditions. Recognition also is given to the numerous technicians who aided in sample preparation and analysis, and particularly to Tom Peacock for the difficult preparation of the plant samples.

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Table 1.--Limits of determination for the spectrographic analysis of rocks and stream sediments, based on a 10-mg sample. [The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for rocks and stream sediments.]

Elements	Lower determination limit	Upper determination limit
	Percent	
Calcium (Ca)	.05	20
Iron (Fe)	.05	20
Magnesium (Mg)	.02	10
Sodium (Na)	.2	5
Phosphorus (P)	.2	10
Titanium (Ti)	.002	1
	Parts per million	
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	50	1,000
Manganese (Mn)	10	5,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Platinum (Pt)*	20	1,000
Palladium (Pd)*	5	1,000

* Stated determination limits for Pt and Pd are for heavy-mineral-concentrate samples and are based on a 5 mg sample.

Table 2.--Other chemical methods used and their lower determination limits.
[A = flame atomic absorption; G = graphite furnace atomic absorption; I = 10-element inductively coupled plasma-atomic emission spectrometry; C = 40-element inductively coupled plasma-atomic emission spectrometry; P = 5-element inductively coupled plasma-atomic absorption spectrometry]

Element		Sample type	Determination Method	limit	Reference
Parts per million					
Gold	(Au)	rock, st. sed.	A	.05	Modification of Thompson and others, 1968.
Gold	(Au)	rock	G	.002	Modification of Meier, 1980.
Arsenic	(As)	rock, st. sed.	P	5	Crock and others, 1987.
Bismuth	(Bi)	rock, st. sed.	P	2	
Cadmium	(Cd)	rock, st. sed.	P	0.1	
Antimony	(Sb)	rock, st. sed.	P	2	
Zinc	(Zn)	rock, st. sed.	P	2	
Silver	(Ag)	rock	I	.075	Motooka, 1988.
Arsenic	(As)	rock	I	1.0	
Gold	(Au)	rock	I	.25	
Bismuth	(Bi)	rock	I	1.0	
Cadmium	(Cd)	rock	I	.05	
Copper	(Cu)	rock	I	.05	
Molybdenum	(Mo)	rock	I	.09	
Lead	(Pb)	rock	I	1.0	
Antimony	(Sb)	rock	I	1.0	
Zinc	(Zn)	rock	I	.05	
Percent					
Aluminum	(Al)	plant	C	.01	Crock and others, 1987.
Calcium	(Ca)	plant	C	.01	
Iron	(Fe)	plant	C	.01	
Potassium	(K)	plant	C	0.1	
Magnesium	(Mg)	plant	C	.01	
Sodium	(Na)	plant	C	.01	
Phosphorus	(P)	plant	C	.01	
Titanium	(Ti)	plant	C	.01	

Table 2.--continued.

Element		Sample type	Determination Method	limit	Reference
			Parts per million		
Gold	(Au)	plant	G	.001	Modification of Meier, 1980).
Silver	(Ag)	plant	I	.15	Motooka, 1988.
Arsenic	(As)	plant	I	2.0	
Gold	(Au)	plant	I	.50	
Bismuth	(Bi)	plant	I	2.0	
Cadmium	(Cd)	plant	I	.10	
Copper	(Cu)	plant	I	.10	
Molybdenum	(Mo)	plant	I	.30	
Lead	(Pb)	plant	I	2.0	
Antimony	(Sb)	plant	I	2.0	
Zinc	(Zn)	plant	I	.10	
Manganese	(Mn)	plant	C	8	Crock and others, 1987.
Silver	(Ag)	plant	C	4	
Arsenic	(As)	plant	C	20	
Gold	(Au)	plant	C	20	
Barium	(Ba)	plant	C	2	
Beryllium	(Be)	plant	C	2	
Bismuth	(Bi)	plant	C	20	
Cadmium	(Cd)	plant	C	4	
Cerium	(Ce)	plant	C	8	
Cobalt	(Co)	plant	C	2	
Chromium	(Cr)	plant	C	2	
Copper	(Cu)	plant	C	2	
Europium	(Eu)	plant	C	4	
Gallium	(Ga)	plant	C	8	
Holmium	(Ho)	plant	C	8	
Lanthanum	(La)	plant	C	4	
Lithium	(Li)	plant	C	4	
Molybdenum	(Mo)	plant	C	4	
Niobium	(Nb)	plant	C	8	
Neodymium	(Nd)	plant	C	8	
Nickel	(Ni)	plant	C	4	
Lead	(Pb)	plant	C	8	
Scandium	(Sc)	plant	C	4	
Tin	(Sn)	plant	C	20	
Strontium	(Sr)	plant	C	4	
Tantalum	(Ta)	plant	C	80	
Thorium	(Th)	plant	C	8	
Uranium	(U)	plant	C	200	
Vanadium	(V)	plant	C	4	
Yttrium	(Y)	plant	C	4	
Ytterbium	(Yb)	plant	C	2	
Zinc	(Zn)	plant	C	4	

Table 3.--Results of analyses of stream-sediment samples from the Swansea (field # prefix SW), Planet Peak (PP and BM), Gibraltar Mountain (GM), Cactus Plain (CA and CP), and East Cactus Plain (CA and CP) Wilderness Study Areas, La Paz and Mohave Counties, AZ. [N, not detected; L, detected but below the limit of determination shown; .0B, not analyzed.]

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
1	SW001S	341030	1135321	.70	2.0	.70	1.5	.20L	.20	.50N	200N	10N	10	700	1.0L	10N
2	SW002S	341037	1135246	1.0	2.0	.70	1.5	.20L	.20	.50N	200N	10N	10	500	1.0L	10N
3	SW003S	341048	1135234	1.0	2.0	.70	1.5	.20L	.30	.50N	200N	10N	10	700	1.0	10N
4	SW004S	341106	1135215	1.5	3.0	.70	1.5	.20L	.30	.50N	200N	10N	10	700	1.0	10N
5	SW005S	341105	1135134	1.0	5.0	.70	1.5	.20L	.30	.50N	200N	10N	10	700	1.0	10N
6	SW006S	341144	1135045	.70	3.0	.70	1.5	.20L	.50	.70	200N	10N	10	500	1.0	10N
7	SW007S	341142	1135045	.70	5.0	.70	1.5	.20L	.50	.50N	200N	10N	10	700	1.0	10N
8	SW008S	341147	1135026	.70	1.5	.70	2.0	.20L	.20	.70	200N	10N	10	700	1.0	10N
9	SW009S	341222	1134929	.30	1.0	.30	2.0	.20L	.15	.50N	200N	10N	10	500	1.0L	10N
10	SW010S	341221	1134926	1.0	1.5	.70	1.0	.20L	.20	.50	200N	10N	20	500	1.0L	10N
11	SW011S	341236	1134945	.70	3.0	.50	2.0	.20L	.20	.50N	200N	10N	10	1000	1.0	10N
12	SW012S	341246	1134946	1.0	3.0	1.0	2.0	.20L	.30	.50	200N	10N	10	1000	1.0	10N
13	SW013S	341256	1134941	1.0	5.0	1.0	1.5	.20L	.50	.50N	200N	10N	10	500	1.0	10N
14	SW014S	341257	1135007	1.0	3.0	.70	1.5	.20L	.50	.50N	200N	10N	10L	300	1.0L	10N
15	SW015S	341255	1135004	1.0	2.0	.70	2.0	.20L	.20	.50	200N	10N	10L	500	1.0	10N
16	SW016S	341319	1134941	1.0	5.0	1.0	1.5	.20L	.50	.50N	200N	10N	30	500	1.0	10N
17	SW017S	341254	1134904	.70	5.0	1.0	2.0	.20L	.30	.50N	200N	10N	10	2000	1.0	10N
18	SW018S	341306	1134914	1.0	3.0	1.0	2.0	.20L	.30	.50L	200N	10N	10	500	1.0L	10N
19	SW019S	341338	1134938	2.0	5.0	1.5	2.0	.20	.50	.50N	200N	10N	10L	500	1.0	10N
20	SW020S	341354	1134918	2.0	3.0	1.0	1.5	.20L	.30	.50N	200N	10N	15	500	1.0	10N
21	SW021S	341411	1134903	1.0	5.0	1.5	2.0	.20L	.50	.50N	200N	10N	10L	300	1.0	10N
22	SW022S	341417	1134849	1.5	3.0	1.0	1.5	.20L	.50	.50N	200N	10N	10	500	1.0L	10N
23	SW023S	341407	1134837	1.0	2.0	.70	1.5	.20L	.30	.50N	200N	10N	15	300	1.0L	10N
24	SW024S	341418	1134802	2.0	5.0	1.0	2.0	.20L	.50	.50N	200N	10N	10	500	1.0	10N
25	SW025S	341331	1135023	2.0	3.0	1.5	2.0	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
26	SW026S	341359	1135001	1.0	3.0	1.0	2.0	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
27	SW027S	341358	1134958	1.5	5.0	1.0	2.0	.20L	.30	.50N	200N	10N	10	300	1.0	10N
28	SW028S	341347	1135033	1.5	3.0	1.0	2.0	.20	.30	.50N	200N	10N	15	300	1.0	10N
29	SW029S	341353	1135036	1.5	3.0	1.0	2.0	.20	.30	.50N	200N	10N	10	500	1.0L	10N
30	SW030S	341412	1135051	1.5	10	.70	2.0	.20	.50	.50N	200N	10N	10	300	1.0L	10N
31	SW031S	341427	1135032	1.0	2.0	1.0	1.5	.20L	.50	.50N	200N	10N	10	300	1.0	10N
32	SW032S	341456	1135042	1.5	3.0	.70	1.5	.20	.50	.50N	200N	10N	10	500	1.0	10N
33	SW033S	341539	1135014	.70	5.0	.50	.70	.20L	.30	1.0	200N	10N	20	2000	1.0L	10N
34	SW034S	341607	1134957	.70	5.0	.70	1.0	.20L	.30	1.0	200N	10N	50	2000	1.5	10N
35	SW035S	341508	1135054	1.0	2.0	.70	1.0	.20L	.30	.50	200N	10N	20	2000	1.0	10N
36	SW036S	341520	1135134	3.0	3.0	1.5	1.5	.20L	.50	.50	200N	10N	15	1500	1.0L	10N
37	SW037S	341453	1135123	2.0	3.0	1.0	1.5	.20	.50	.50L	200N	10N	10	700	1.0	10N
38	SW038S	341201	1135330	1.0	3.0	.70	2.0	.20L	.30	.50N	200N	10N	10	500	1.0L	10N
39	SW039S	341208	1135326	1.5	5.0	1.0	2.0	.20L	.50	.50N	200N	10N	10	500	1.0	10N
40	SW040S	341210	1135325	2.0	3.0	1.0	2.0	.20L	.50	.50N	200N	10N	10	300	1.0L	10N

Table 3.--continued.

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
41	SW041S	341253	1135352	1.5	1.5	.70	1.5	.20L	.50	.50N	200N	10N	10L	300	1.0	10N
42	SW042S	341344	1135417	1.0	1.5	.50	1.5	.20L	.20	.50N	200N	10N	10	500	1.0L	10N
43	SW043S	341404	1135357	1.0	1.5	.70	1.5	.20L	.20	.50N	200N	10N	10	500	1.0L	10N
44	SW044S	341435	1135320	1.5	1.5	.70	1.5	.20L	.20	.50N	200N	10N	10	300	1.0	10N
45	SW045S	341444	1135246	1.0	2.0	1.0	1.5	.20L	.20	.50L	200N	10N	10	300	1.0L	10N
46	SW046S	341442	1135256	1.5	3.0	1.0	1.0	.20L	.30	.50N	200N	10N	10L	300	1.0	10N
47	SW047S	341500	1135236	1.5	2.0	1.0	1.5	.20L	.30	.50N	200N	10N	10L	200	1.0L	10N
48	SW048S	341501	1135207	1.0	5.0	.70	1.0	.20L	.50	.50N	200N	10N	10N	200	1.0L	10N
49	SW049S	341555	1135230	1.5	2.0	1.0	1.5	.20L	.20	.50N	200N	10N	10L	500	1.0L	10N
50	SW050S	341613	1135221	2.0	3.0	1.5	1.0	.20L	.30	.50N	200N	10N	10	1500	1.0L	10N
51	SW051S	341645	1135214	.70	5.0	.30	1.0	.20N	.50	.50N	200N	10N	10	500	1.0	10N
52	SW052S	341643	1135218	.70	1.0	.30	1.5	.20L	.30	.50L	200N	10N	15	700	1.0	10N
53	SW053S	341637	1135208	1.5	2.0	1.5	1.5	.20L	.30	.50N	200N	10N	10	500	1.0L	10N
54	SW054S	341629	1135208	1.5	1.5	1.0	1.0	.20L	.20	.50N	200N	10N	15	300	1.0	10N
55	SW055S	341623	1135207	2.0	3.0	1.5	1.5	.20L	.30	.50N	200N	10N	10L	500	1.0L	10N
56	PP001S	341212	1135936	.70	10	.70	1.5	.0B	.20	.50N	200N	10N	10	700	1.0	10N
57	PP002S	341134	1135917	1.0	3.0	1.0	1.5	.0B	.30	.50N	200N	10N	10	1000	1.0L	10N
58	PP003S	341048	1135843	1.0	2.0	.70	3.0	.0B	.20	.50N	200N	10N	10	700	1.0	10N
59	PP004S	341101	1135903	1.5	3.0	1.0	2.0	.0B	.30	.50N	200N	10N	10	700	1.0L	10N
60	PP005S	341008	1135721	1.5	1.5	.70	1.5	.0B	.15	.50L	200N	10N	50	1000	1.5	10N
61	PP006S	341012	1135737	1.0	3.0	.70	1.5	.0B	.50	.50N	200N	10N	10L	700	1.0L	10N
62	PP007S	341241	1140007	1.0	5.0	1.0	2.0	.0B	.30	.50N	200N	10N	10	700	1.0L	10N
63	PP008S	341222	1140028	1.0	5.0	.70	1.0	.0B	.50	.50N	200N	10N	10L	1000	1.0L	10N
64	PP009S	341108	1140034	1.0	3.0	.70	1.5	.0B	.70	.50N	200N	10N	10L	1000	1.0L	10N
65	PP010S	341032	1140130	1.0	2.0	.70	1.5	.0B	.30	.50N	200N	10N	10L	1000	1.0L	10N
66	PP011S	341050	1140121	1.0	3.0	.70	1.5	.0B	.30	.50N	200N	10N	10L	1000	1.0L	10N
67	PP012S	341107	1140111	1.5	2.0	.70	1.5	.0B	.30	.50N	200N	10N	10L	1000	1.0L	10N
68	PP013S	340810	1135748	1.5	2.0	.70	1.5	.0B	.30	.50N	200N	10N	10	700	1.0L	10N
69	PP014S	340846	1135649	1.5	3.0	1.0	1.0	.0B	.30	.50N	200N	10N	10	1000	1.0L	10N
70	PP015S	341031	1135803	1.5	3.0	1.0	1.5	.0B	.20	.50N	200N	10N	10	1000	1.0L	10N
71	PP016S	341033	1135814	.70	3.0	.70	2.0	.0B	.50	.50N	200N	10N	10	700	1.0L	10N
72	PP017S	340927	1135641	1.5	3.0	1.0	1.0	.0B	.30	.50N	200N	10N	10	700	1.0L	10N
73	PP018S	340838	1135714	1.5	2.0	1.0	2.0	.0B	.30	.50N	200N	10N	20	700	1.0L	10N
74	PP019S	340836	1135729	1.0	2.0	1.0	2.0	.0B	.30	.50N	200N	10N	10	700	1.0L	10N
75	PP020S	340833	1135732	2.0	5.0	1.0	2.0	.20	.30	.70	200N	10N	10	700	1.0L	10N
76	PP021S	340822	1135828	1.5	10	1.0	1.5	.20	.30	.50N	200N	10N	10	1000	1.0L	10N
77	PP022S	340823	1135843	2.0	3.0	1.0	1.5	.20L	.30	.50N	200N	10N	10	700	1.0L	10N
78	PP023S	340811	1135850	2.0	3.0	1.0	1.0	.20L	.30	.50N	200N	10N	10	500	1.0L	10N
79	PP024S	340837	1135931	1.5	3.0	1.0	1.5	.20L	.30	.50N	200N	10N	10	1500	1.0L	10N
80	PP025S	340835	1135934	1.5	5.0	1.0	1.5	.20	.20	.50N	200N	10N	10L	1000	1.0	10N

Table 3.--continued.

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
81	PP026S	340813	1135936	1.5	3.0	1.0	1.5	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
82	PP027S	340813	1140027	1.5	5.0	1.0	1.5	.20L	.30	.50N	200N	10N	10	1000	1.0	10N
83	PP028S	340822	1140051	1.0	5.0	.70	1.5	.20L	.20	.50N	200N	10N	10	1000	1.0	10N
84	PP029S	340827	1140115	1.0	2.0	.70	1.5	.20L	.20	.50N	200N	10N	10L	700	1.0L	10N
85	PP030S	340827	1140133	.70	3.0	.70	1.5	.20L	.20	.50N	200N	10N	10	500	1.0L	10N
86	PP031S	340913	1140152	1.0	3.0	1.0	1.0	.20	.50	.50N	200N	10N	10L	700	1.0	10N
87	PP032S	340916	1140152	1.0	5.0	.70	1.5	.20	.50	.50N	200N	10N	10	1000	1.0L	10N
88	PP033S	340901	1140221	.70	2.0	.70	1.0	.20L	.20	.50N	200N	10N	10	500	1.0L	10N
89	PP034S	340946	1140213	1.0	3.0	.70	1.5	.20L	.30	.50N	200N	10N	10	1000	1.0L	10N
90	PP035S	340943	1140209	1.0	2.0	.70	1.0	.20L	.20	.50L	200N	10N	15	1000	1.0	10N
91	PP036S	340933	1140158	.70	2.0	.70	2.0	.20L	.30	.50N	200N	10N	10	700	1.0L	10N
92	GM001S	340944	1140740	1.0	5.0	.70	2.0	.20L	.50	.50L	200N	10N	10	300	1.0L	10N
93	GM002S	340922	1140654	.50	3.0	.30	2.0	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
94	GM003S	340924	1140648	.70	3.0	1.0	2.0	.20L	.50	.50N	200N	10N	10L	200	1.0N	10N
95	GM004S	340936	1140638	1.0	3.0	1.0	1.5	.20L	.70	.50N	200N	10N	10L	150	1.0L	10N
96	GM005S	340953	1140636	1.5	5.0	1.5	1.5	.20L	.70	.50N	200N	10N	10L	150	1.0L	10N
97	GM006S	341017	1140625	1.5	5.0	1.5	1.5	.20L	.70	.50N	200N	10N	10L	150	1.0N	10N
98	GM007S	341021	1140623	2.0	3.0	1.0	1.5	.20L	.50	.50N	200N	10N	10L	150	1.0L	10N
99	GM008S	341028	1140636	1.0	5.0	1.5	1.5	.20L	.70	.50N	200N	10N	10L	100	1.0N	10N
100	GM009S	341017	1140652	1.5	3.0	1.0	1.5	.20L	.70	.50N	200N	10N	10	300	1.0L	10N
101	GM010S	341024	1140744	1.5	5.0	1.5	2.0	.20L	.70	.50N	200N	10N	10L	200	1.0N	10N
102	GM011S	341020	1140740	1.0	3.0	.50	2.0	.20L	.30	.50N	200N	10N	10	200	1.0L	10N
103	GM012S	341034	1140748	1.5	5.0	1.0	1.5	.20L	.70	.50N	200N	10N	10	300	1.0L	10N
104	GM013S	340845	1140745	.70	2.0	.20	1.5	.20L	.20	.50N	200N	10N	10L	500	1.0	10N
105	GM014S	340737	1140747	.50	3.0	.20	1.0	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
106	GM015S	340721	1140716	.50	2.0	.15	1.5	.20L	.15	.50N	200N	10N	10	300	1.0L	10N
107	GM016S	340710	1140541	1.0	3.0	.50	3.0	.20L	.30	.50N	200N	10N	10	500	1.0L	10N
108	GM017S	340757	1140456	1.0	3.0	.50	1.5	.20L	.30	.50N	200N	10N	10	300	1.0L	10N
109	GM018S	340821	1140409	1.0	3.0	.50	1.0	.20L	.50	.50N	200N	10N	10	300	1.0L	10N
110	GM019S	340818	1140414	1.0	2.0	.70	1.0	.20L	.50	.50N	200N	10N	10	200	1.0L	10N
111	GM020S	340955	1140352	1.0	3.0	.70	1.0	.20L	.70	.50N	200N	10N	10	500	1.0L	10N
112	GM021S	341013	1140355	2.0	3.0	1.0	1.5	.20L	.50	.50N	200N	10N	10L	200	1.0L	10N
113	GM022S	341133	1140403	1.0	3.0	1.0	1.5	.20L	.50	.50L	200N	10N	10	300	1.0L	10N
114	GM023S	341334	1140835	1.0	3.0	1.0	1.5	.20L	.70	.50N	200N	10N	10L	300	1.0L	10N
115	GM024S	341341	1140836	.70	2.0	.50	1.5	.20L	.50	.50N	200N	10N	10L	300	1.0L	10N
116	GM025S	341452	1140813	1.0	5.0	.70	1.5	.20L	.70	.50N	200N	10N	20	2000	1.0L	10N
117	GM026S	341444	1140617	1.0	5.0	1.0	3.0	.20L	.70	.50N	200N	10N	10	200	1.0L	10N
118	GM027S	341337	1140556	1.0	3.0	1.0	3.0	.20L	.70	.50N	200N	10N	10L	150	1.0L	10N
119	GM028S	341305	1140525	1.0	5.0	.70	2.0	.20L	.50	.50N	200N	10N	10	300	1.0L	10N
120	GM029S	341459	1140658	1.0	3.0	1.0	2.0	.20L	.50	.50N	200N	10N	10L	300	1.0L	10N

Table 3.--continued.

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
121	GM030S	340932	1140743	.70	3.0	.70	1.0	.20L	.30	.50L	200N	10N	50	1000	1.0L	10N
122	GM031S	340928	1140819	1.0	3.0	1.0	2.0	.20L	.50	.50N	200N	10N	10	200	1.0L	10N
123	GM032S	340911	1140836	1.0	2.0	.70	1.5	.20L	.50	.50N	200N	10N	10L	200	1.0L	10N
124	GM033S	341037	1140824	1.0	5.0	1.0	1.5	.20L	.70	.50N	200N	10N	10	300	1.0L	10N
125	GM034S	341038	1140819	1.0	3.0	1.0	1.5	.20L	.70	.50N	200N	10N	10L	200	1.0L	10N
126	GM035S	340940	1140834	1.5	2.0	.70	1.5	.20L	.50	.50N	200N	10N	10L	200	1.0L	10N
127	GM036S	340929	1140917	1.5	3.0	.70	1.5	.20L	.50	.50N	200N	10N	10	200	1.0L	10N
128	GM037S	340932	1140934	2.0	3.0	1.0	1.0	.20L	.70	.50N	200N	10N	10	300	1.0L	10N
129	GM038S	340940	1140950	1.5	2.0	.50	1.5	.20L	.30	.50N	200N	10N	10	200	1.0	10N
130	GM039S	341047	1141121	1.0	2.0	.50	1.0	.20L	.30	.50N	200N	10N	20	300	1.0L	10N
131	GM040S	341129	1141033	1.0	3.0	.50	1.0	.20L	.50	.50N	200N	10N	10	300	1.0L	10N
132	GM041S	341001	1141026	2.0	7.0	1.5	2.0	.20L	.70	.50N	200N	10N	10	300	1.0L	10N
133	CA001S	340505	1135443	.70	3.0	1.0	1.5	.20L	.30	.50N	200N	10N	15	700	1.0L	10N
134	CA002S	340500	1135519	.70	5.0	.70	1.0	.20L	.50	.50N	200N	10N	15	500	1.0L	10N
135	CA070S	340605	1140650	.50	1.5	.30	1.0	.20L	.15	.50N	200N	10N	15	500	1.0L	10N
136	CA074S	340657	1141040	1.5	2.0	.50	1.0	.20L	.20	.50N	200N	10N	15	300	1.0L	10N
137	CA077S	340923	1140220	1.5	15	2.0	1.5	.20N	.20	.50N	200N	10N	10	700	1.0L	10N
138	CA078S	340801	1140259	1.0	3.0	.70	1.0	.20L	.30	.50N	200N	10N	20	500	1.0	10N
139	CP003S	340617	1140636	1.0	2.0	.50	.0B	.0B	.20	.50N	500N	10N	15	300	1.0N	10N
140	CP011S	340727	1141027	.30	15	.30	.50N	.50N	1.5	1.0N	500N	10N	50	1000	2.0N	20N
141	CP202S	340148	1140525	3.0	2.0	1.5	.0B	.0B	2.0	.50N	200N	10N	30	700	1.0	10N
142	CP204S	335752	1140435	1.5	3.0	1.0	.0B	.0B	2.0	.50N	200N	10N	50	1500	1.0	10N
143	CP205S	335714	1140502	2.0	3.0	1.0	.0B	.0B	2.0	.50N	200N	10N	30	1500	1.0	10N
144	CP206S	335655	1140308	3.0	3.0	1.5	.0B	.0B	3.0	.50N	200N	10N	70	1500	1.0	10N
145	CP207S	335701	1140315	2.0	5.0	1.0	.0B	.0B	3.0	.50N	200N	10N	70	2000	1.5	10N
146	CP209S	335720	1140343	5.0	5.0	1.5	.0B	.0B	5.0	.50N	200N	10N	70	1000	1.0	10N
147	CP212S	340748	1140228	2.0	3.0	1.0	.0B	.0B	3.0	.50N	200N	10N	20	500	1.0	10N
148	CP400S	335825	1140140	3.0	3.0	2.0	.0B	.0B	5.0	.50N	200N	10N	50	1500	1.0L	10N
149	CP402S	335640	1135938	5.0	3.0	2.0	.0B	.0B	3.0	.50N	200N	10N	50	1000	1.0L	10N
150	CP403S	335605	1135922	3.0	3.0	2.0	.0B	.0B	5.0	.50N	200N	10N	50	700	1.0	10N

Table 3.--continued.

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
1	SW001S	20N	30	10	20	30	10N	50	200	5.0L	20L	20	20	100N	7.0	10N
2	SW002S	20N	20	15	30	30	10N	100	300	5.0	20L	15	30	100N	7.0	10N
3	SW003S	20N	30	20	15	30	10N	150	300	5.0L	20	20	30	100N	10	10N
4	SW004S	20N	30	30	30	30	10N	100	300	5.0L	20	50	30	100N	10	10N
5	SW005S	20N	50	20	50	30	10N	150	500	5.0L	20	50	50	100N	10	10N
6	SW006S	20N	30	20	30	30	10N	100	300	5.0N	20L	20	200	100N	10	10N
7	SW007S	20N	20	20	30	20	10N	100	500	5.0N	20	20	100	100N	10	10N
8	SW008S	20N	10	10	30	30	10N	70	300	5.0N	20L	20	150	100N	7.0	10N
9	SW009S	20N	10	10L	50	20	10N	50	200	5.0N	20L	10	50	100N	5.0L	10N
10	SW010S	20N	15	10L	50	20	10N	50	300	5.0N	20N	10	50	100N	7.0	10N
11	SW011S	20N	20	15	200	50	10N	50	300	5.0L	20L	15	300	100N	7.0	10N
12	SW012S	20N	20	30	150	30	10N	70	500	5.0N	20L	70	70	100N	10	10N
13	SW013S	20N	20	50	100	30	10N	70	500	5.0N	20L	70	30	100N	10	10N
14	SW014S	20N	15	15	15	20	10N	50	200	5.0N	20	20	20	100N	10	10N
15	SW015S	20N	15	15	30	30	10N	50	300	5.0N	20L	20	30	100N	7.0	10N
16	SW016S	20N	20	30	30	30	10N	70	500	5.0N	20L	50	30	100N	10	10N
17	SW017S	20N	30	15	150	50	10N	70	300	5.0	20L	20	50	100N	10	10N
18	SW018S	20N	20	20	70	50	10N	100	500	5.0N	20L	30	30	100N	10	10N
19	SW019S	20N	30	50	200	30	10N	100	700	5.0N	20	100	50	100N	15	10N
20	SW020S	20N	15	30	200	30	10N	50L	500	5.0N	20L	20	30	100N	7.0	10N
21	SW021S	20N	30	20	500	50	10N	100	500	5.0N	20	50	30	100N	10	10L
22	SW022S	20N	20	50	30	30	10N	100	500	5.0N	20	30	30	100N	15	10N
23	SW023S	20N	15	20	20	30	10N	70	300	5.0N	20L	20	30	100N	10	10N
24	SW024S	20N	20	50	50	50	10N	100	500	5.0N	20	70	50	100N	20	10N
25	SW025S	20N	30	50	20	50	10N	50	500	5.0N	20L	70	30	100N	15	10N
26	SW026S	20N	30	20	50	50	10N	150	200	5.0	20	20	30	100N	10	10N
27	SW027S	20N	30	20	100	50	10N	100	300	5.0N	20	15	30	100N	10	10N
28	SW028S	20N	30	50	30	30	10N	50	300	5.0N	20L	30	30	100N	10	10N
29	SW029S	20N	30	50	30	50	10N	100	300	5.0N	20L	50	20	100N	10	10N
30	SW030S	20N	30	50	20	50	10N	200	200	5.0N	50	30	20	100N	15	10
31	SW031S	20N	30	50	20	50	10N	50	200	5.0N	20	30	30	100N	10	10N
32	SW032S	20N	15	20	30	30	10N	70	200	5.0N	20	15	30	100N	10	10N
33	SW033S	20N	15	10	50	30	10N	50	1000	5.0L	20L	15	100	100N	7.0	10N
34	SW034S	20N	20	30	20	30	10N	50	1000	5.0L	20L	15	70	100N	7.0	10N
35	SW035S	20N	15	15	15	30	10N	50L	500	5.0N	20L	10	30	100N	5.0	10N
36	SW036S	20N	30	70	50	30	10N	50L	500	5.0N	20L	70	50	100N	10	10N
37	SW037S	20N	20	20	50	30	10N	150	300	5.0N	20	20	20	100N	15	10N
38	SW038S	20N	30	20	20	30	10N	100	200	5.0N	20	20	30	100N	10	10N
39	SW039S	20N	20	20	50	50	10N	200	300	5.0L	20	30	30	100N	10	10N
40	SW040S	20N	15	20	30	30	10N	100	200	5.0L	30	20	30	100N	10	10N

Table 3.--continued.

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
41	SW041S	20N	15	15	15	50	10N	150	300	5.0L	50	15	30	100N	15	10
42	SW042S	20N	15	10L	15	30	10N	70	200	5.0L	20L	10	30	100N	7.0	10N
43	SW043S	20N	15	20	50	30	10N	70	200	5.0N	20	15	30	100N	10	10L
44	SW044S	20N	20	50	15	30	10N	50	300	5.0N	20L	30	30	100N	10	10N
45	SW045S	20N	20	20	30	30	10N	100	200	5.0N	20L	50	30	100N	10	10N
46	SW046S	20N	50	30	15	30	10N	70	500	5.0N	20L	70	20	100N	15	10N
47	SW047S	20N	50	15	7.0	50	10N	70	200	5.0N	20L	20	20	100N	15	10N
48	SW048S	20N	50	20	100	50	10N	200	200	5.0N	30	20	30	100N	20	10N
49	SW049S	20N	30	30	50	30	10N	50L	200	5.0N	20L	70	30	100N	10	10N
50	SW050S	20N	50	100	30	30	10N	50L	500	5.0N	20N	150	20	100N	15	10N
51	SW051S	20N	20	70	20	20	10N	50	500	5.0N	20	15	50	100N	7.0	10
52	SW052S	20N	15	10L	10	30	10N	50	300	5.0N	20L	10	50	100N	7.0	10N
53	SW053S	20N	30	50	30	30	10N	50L	300	5.0N	20L	150	30	100N	10	10N
54	SW054S	20N	30	50	30	20	10N	50L	300	5.0N	20N	100	20	100N	10	10N
55	SW055S	20N	70	100	50	30	10N	50L	300	5.0N	20N	200	20	100N	15	10N
56	PP001S	20N	30	15	30	30	10N	100	500	5.0L	20	15	30	100N	10	10N
57	PP002S	20N	50	20	30	50	10N	100	300	5.0N	20	30	50	100N	15	10N
58	PP003S	20N	20	20	15	50	10N	70	300	5.0N	20L	20	30	100N	10	10N
59	PP004S	20N	30	30	30	30	10N	100	500	5.0N	20L	50	30	100N	15	10N
60	PP005S	20N	10	15	50	50	10N	70	500	5.0L	20L	15	30	100N	7.0	10N
61	PP006S	20N	15	20	20	50	10N	150	300	5.0L	20	20	20	100N	15	10N
62	PP007S	20N	30	20	50	50	10N	100	300	5.0L	20L	50	20	100N	15	10N
63	PP008S	20N	30	30	30	30	10N	100	300	5.0L	30	20	30	100N	10	10N
64	PP009S	20N	30	20	20	30	10N	200	300	5.0L	30	15	30	100N	15	10L
65	PP010S	20N	20	15	20	50	10N	100	200	5.0N	20	15	30	100N	10	10N
66	PP011S	20N	30	20	20	50	10N	100	300	5.0N	20L	30	50	100N	15	10N
67	PP012S	20N	20	20	15	50	10N	70	300	5.0N	20L	20	30	100N	15	10N
68	PP013S	20N	30	30	30	50	10N	150	300	5.0L	20L	30	20	100N	15	10N
69	PP014S	20N	20	15	20	30	10N	100	300	5.0L	20L	30	20	100N	15	10N
70	PP015S	20N	30	30	50	50	10N	150	500	5.0L	20	30	20	100N	15	10L
71	PP016S	20N	20	15	30	50	10N	150	200	5.0N	20	30	30	100N	15	10L
72	PP017S	20N	30	15	30	30	10N	100	300	5.0L	20L	20	30	100N	15	10N
73	PP018S	20N	30	20	30	50	10N	100	300	5.0N	20	30	30	100N	15	10N
74	PP019S	20N	20	15	20	50	10N	70	200	5.0N	20L	20	20	100N	15	10N
75	PP020S	20N	50	30	50	70	10N	150	500	5.0L	20	50	50	100N	20	10N
76	PP021S	20N	30	50	30	50	10N	150	500	5.0L	20	20	30	100N	15	10N
77	PP022S	20N	20	20	20	30	10N	100	300	5.0N	20	20	20	100N	20	10N
78	PP023S	20N	30	30	15	30	10N	70	300	5.0N	20L	30	20	100N	20	10N
79	PP024S	20N	20	20	30	30	10N	70	300	5.0N	20L	15	20	100N	15	10N
80	PP025S	20N	30	30	30	20	10N	100	300	5.0L	20L	15	20	100N	15	10N

Table 3.--continued.

Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
81 PP026S	20N	30	20	20	50	10N	70	300	5.0L	20L	15	30	100N	15	10N
82 PP027S	20N	30	20	30	50	10N	100	300	5.0L	20	15	30	100N	15	10N
83 PP028S	20N	30	30	30	30	10N	100	200	5.0L	20L	20	20	100N	15	10N
84 PP029S	20N	10	10	20	30	10N	100	150	5.0N	20L	15	30	100N	10	10L
85 PP030S	20N	15	15	20	30	10N	70	100	5.0N	20L	15	30	100N	10	10N
86 PP031S	20N	30	20	100	50	10N	200	700	5.0L	30	20	30	100N	15	10L
87 PP032S	20N	20	20	30	50	10N	200	200	5.0L	30	15	30	100N	20	10N
88 PP033S	20N	10	10	30	30	10N	100	150	5.0L	20	10	20	100N	10	10N
89 PP034S	20N	20	50	20	50	10N	100	300	5.0L	20	20	30	100N	10	10N
90 PP035S	20N	15	20	20	30	10N	70	300	5.0L	20L	15	50	100N	10	10N
91 PP036S	20N	10	20	20	50	10N	70	200	5.0N	20L	15	30	100N	15	10N
92 GM001S	20N	20	10L	7.0	30	10N	100	700	5.0L	20	7.0	20	100N	7.0	10N
93 GM002S	20N	10	10L	5.0	20	10N	150	300	5.0	30	10	20	100N	7.0	10N
94 GM003S	20N	30	10	20	20	10N	50L	300	5.0L	20L	50	15	100N	7.0	10N
95 GM004S	20N	30	15	20	20	10N	50N	300	5.0N	20L	70	15	100N	7.0	10N
96 GM005S	20N	30	20	30	20	10N	50L	300	5.0N	20L	70	15	100N	10	10N
97 GM006S	20N	50	30	30	30	10N	50N	300	5.0N	20L	100	20	100N	15	10N
98 GM007S	20N	30	20	30	30	10N	50N	300	5.0N	20L	70	20	100N	10	10N
99 GM008S	20N	50	50	20	30	10N	50L	500	5.0N	20L	100	10	100N	10	10N
100 GM009S	20N	20	15	20	30	10N	100	300	5.0N	20L	50	30	100N	10	10N
101 GM010S	20N	30	20	30	30	10N	50L	300	5.0N	20L	70	20	100N	10	10N
102 GM011S	20N	10	10	10	30	10N	100	500	5.0L	20	10	20	100N	5.0	10N
103 GM012S	20N	30	20	20	20	10N	50L	500	5.0N	20	30	15	100N	10	10N
104 GM013S	20N	10L	10L	5.0L	20	10N	200	500	5.0L	20	5.0L	20	100N	7.0	10N
105 GM014S	20N	10L	10L	5.0L	20	10N	50L	500	5.0L	20	5.0L	15	100N	5.0	10N
106 GM015S	20N	10L	10L	5.0L	20	10N	150	500	5.0L	50	5.0L	20	100N	5.0L	10N
107 GM016S	20N	10	10	10	50	10N	150	300	5.0L	50	15	20	100N	7.0	10N
108 GM017S	20N	15	10	7.0	30	10N	100	500	5.0L	30	10	15	100N	10	10N
109 GM018S	20N	15	10L	15	20	10N	50L	500	5.0N	20	15	20	100N	7.0	10N
110 GM019S	20N	20	10L	15	20	10N	50N	300	5.0N	20L	15	15	100N	7.0	10N
111 GM020S	20N	20	15	15	30	10N	50L	500	5.0N	20L	15	30	100N	10	10N
112 GM021S	20N	20	20	20	30	10N	50L	300	5.0N	20L	15	20	100N	10	10N
113 GM022S	20N	30	10	15	30	10N	50L	500	5.0N	20L	30	20	100N	10	10N
114 GM023S	20N	30	15	20	30	10N	150	300	5.0N	20L	30	15	100N	10	10N
115 GM024S	20N	15	10	5.0	20	10N	50L	200	5.0N	20L	15	20	100N	5.0	10N
116 GM025S	20N	30	20	15	30	10N	150	700	5.0L	20	20	20	100N	10	10N
117 GM026S	20N	20	10L	10	30	10N	150	500	5.0L	30	5.0	15	100N	7.0	10N
118 GM027S	20N	30	30	20	30	10N	50L	300	5.0N	20L	70	10L	100N	10	10N
119 GM028S	20N	20	10L	15	50	10N	100	700	5.0	30	5.0	30	100N	10	10N
120 GM029S	20N	20	15	15	30	10N	50L	300	5.0L	20	20	20	100N	7.0	10N

Table 3.--continued.

Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
121 GM030S	20N	70	20	500	30	10N	50L	300	5.0L	20L	20	30	100N	7.0	10N
122 GM031S	20N	20	30	20	20	10N	50L	300	5.0L	20L	50	15	100N	7.0	10N
123 GM032S	20N	15	20	20	20	10N	50L	300	5.0N	20L	30	15	100N	7.0	10N
124 GM033S	20N	20	20	15	20	10N	50L	300	5.0N	20L	30	15	100N	10	10N
125 GM034S	20N	20	10L	20	30	10N	50L	300	5.0N	20L	30	15	100N	7.0	10N
126 GM035S	20N	20	10L	15	30	10N	50L	300	5.0N	20L	15	15	100N	7.0	10N
127 GM036S	20N	20	10L	10	30	10N	50N	200	5.0N	20L	15	20	100N	7.0	10N
128 GM037S	20N	20	10L	10	20	10N	100	500	5.0N	20	15	15	100N	7.0	10N
129 GM038S	20N	10	10N	5.0	20	10N	150	300	5.0N	20L	5.0	15	100N	5.0	10N
130 GM039S	20N	10	10L	20	20	10N	50L	500	5.0N	20L	7.0	20	100N	5.0	10N
131 GM040S	20N	10	10L	7.0	20	10N	100	300	5.0N	20L	7.0	20	100N	5.0	10N
132 GM041S	20N	30	20	20	30	10N	50L	700	5.0N	20	70	20	100N	15	10N
133 CA001S	20N	10	20	20	20	10N	50N	700	5.0N	20N	30	30	100N	5.0L	10N
134 CA002S	20N	10	20	20	20	10N	50L	300	5.0N	20L	20	30	100N	15	10N
135 CA070S	20N	10L	10L	5.0	15	10N	50L	200	5.0N	20L	5.0	15	100N	5.0L	10N
136 CA074S	20N	10	50	10	15	10N	50L	200	5.0N	20L	15	20	100N	5.0	10N
137 CA077S	20N	150	30	2000	50	10N	50	700	5.0N	20L	100	20	100N	7.0	10N
138 CA078S	20N	30	30	150	30	10N	50L	300	5.0N	20L	20	20	100N	7.0	10N
139 CP003S	20N	5.0	30	7.0	.0B	.0B	30	300	5.0N	20L	5.0L	15	100N	7.0	10N
140 CP011S	20N	10	200	15	30	20N	100	3000	10N	50	30	30	200N	20	20
141 CP202S	20N	7.0	100	7.0	.0B	.0B	50	500	5.0N	20N	15	15	100N	10	10N
142 CP204S	20N	7.0	100	70	.0B	.0B	70	700	5.0N	20N	15	20	100N	10	10N
143 CP205S	20N	7.0	100	50	.0B	.0B	30	700	5.0N	20N	30	20	100N	7.0	10N
144 CP206S	20N	7.0	100	30	.0B	.0B	70	700	5.0N	20L	20	20	100N	15	10N
145 CP207S	20N	7.0	100	30	.0B	.0B	100	1000	5.0N	20L	20	20	100N	10	10N
146 CP209S	20N	7.0	100	50	.0B	.0B	70	1000	5.0L	20N	30	15	100N	15	10N
147 CP212S	20N	7.0	70	15	.0B	.0B	70	500	5.0N	20L	15	15	100N	15	10N
148 CP400S	20N	7.0	70	15	.0B	.0B	50	700	5.0N	20N	15	20	100N	10	10N
149 CP402S	20N	10	100	20	.0B	.0B	50	1000	5.0N	20N	30	30	100N	15	10N
150 CP403S	20N	10	70	15	.0B	.0B	70	1000	5.0N	20N	15	30	100N	15	10N

Table 3.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Au ppm-A	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
1	SW001S	300	100N	30	20N	20	200N	70	.05N	5.0N	2.0N	.10N	2.0N	39
2	SW002S	200	100N	30	20N	30	200N	150	.05N	6.0	2.0N	.40	2.0N	52
3	SW003S	500	100N	50	20N	50	200N	100	.05N	5.0N	2.0N	.30	2.0N	32
4	SW004S	500	100N	30	20N	50	200N	100	.05N	11	2.0N	.40	2.0N	38
5	SW005S	500	100L	70	20N	50	200N	150	.05N	18	2.0N	.60	2.0N	56
6	SW006S	200	100N	70	20N	30	200N	150	.05N	10	2.0N	.70	2.0N	88
7	SW007S	200	100N	100	20N	50	200N	300	.05N	6.0	2.0N	.70	2.0N	46
8	SW008S	200	100L	50	20N	20	200N	100	.05N	6.0	2.0N	.50	2.0N	56
9	SW009S	150	100N	20	20N	15	200N	200	.05N	5.0N	2.0N	.20	2.0N	39
10	SW010S	100	100N	30	20N	20	200N	100	.05N	7.0	2.0N	.50	2.0N	52
11	SW011S	200	100N	100	20N	20	200N	100	.05N	6.0	2.0N	.50	2.0N	94
12	SW012S	300	100N	50	20N	30	200N	150	.05N	7.0	2.0N	.70	2.0N	97
13	SW013S	300	100N	50	20N	50	200N	100	.05N	5.0	2.0N	.50	2.0N	68
14	SW014S	300	100N	50	20N	50	200N	100	.05N	6.0	2.0N	.50	2.0N	33
15	SW015S	300	100N	30	20N	30	200N	50	.05N	5.0N	2.0N	.40	2.0N	43
16	SW016S	200	100L	70	20N	30	200N	200	.05N	9.0	2.0N	.60	2.0N	72
17	SW017S	200	100L	50	20N	20	200N	200	.05N	12	2.0N	.50	2.0N	65
18	SW018S	200	100L	50	20N	30	200N	100	.05N	14	2.0N	.50	2.0N	59
19	SW019S	300	100L	70	20N	50	200N	200	.05N	16	2.0N	.60	2.0N	65
20	SW020S	300	100N	50	20N	20	200N	100	.05N	12	2.0N	.40	2.0N	42
21	SW021S	500	100N	70	20N	50	200N	150	.05N	9.0	2.0N	.60	2.0N	35
22	SW022S	300	100N	70	20N	50	200N	100	.05N	7.0	2.0N	.70	2.0N	55
23	SW023S	200	100N	500	20N	30	200N	100	.05N	6.0	2.0N	.40	2.0N	33
24	SW024S	300	100N	70	20N	50	200N	150	.05N	7.0	2.0N	.60	2.0N	90
25	SW025S	300	100N	70	20N	30	200N	50	.05N	5.0N	2.0N	.30	2.0N	41
26	SW026S	200	100N	50	20N	30	200N	150	.05N	12	2.0N	.50	2.0N	36
27	SW027S	300	100N	50	20N	50	200N	150	.05N	13	2.0N	.70	2.0N	28
28	SW028S	300	100N	50	20N	50	200N	150	.05N	9.0	2.0N	.40	2.0N	44
29	SW029S	300	100N	50	20N	70	200N	300	.05N	12	2.0N	.60	3.0	36
30	SW030S	200	100N	70	20N	100	200N	200	.05N	8.0	2.0N	1.0	2.0N	34
31	SW031S	200	100N	50	20N	50	200N	200	.05N	5.0N	2.0N	.20	2.0N	28
32	SW032S	300	100N	50	20N	70	200N	200	.05N	5.0N	2.0N	.30	2.0N	23
33	SW033S	150	100N	50	20N	30	200	150	.05N	17	2.0N	.70	3.0	190
34	SW034S	150	100N	70	20N	30	200L	200	.05N	17	2.0N	.50	5.0	68
35	SW035S	150	100N	50	20N	20	200N	200	.05N	16	2.0N	.40	2.0N	51
36	SW036S	200	100N	70	20N	20	200N	100	.05N	14	2.0N	.60	2.0N	45
37	SW037S	300	100N	70	20N	70	200N	300	.05N	6.0	2.0N	.60	2.0N	32
38	SW038S	300	100N	70	20N	50	200N	150	.05N	5.0N	2.0N	.40	2.0N	33
39	SW039S	300	100L	70	20N	50	200N	150	.05N	5.0	2.0N	.50	2.0N	30
40	SW040S	200	100N	50	20N	70	200N	300	.05N	5.0N	2.0N	.40	2.0N	36

Table 3.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Au ppm-A	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
41	SW041S	200	100N	50	20N	70	200N	150	.05N	11	2.0N	.20	2.0N	28
42	SW042S	200	100N	50	20N	30	200N	100	.05N	10	2.0N	.20	2.0N	27
43	SW043S	200	100N	50	20N	50	200N	100	.05N	6.0	2.0N	.20	2.0N	31
44	SW044S	300	100N	50	20N	30	200N	100	.05N	10	2.0N	.30	2.0N	34
45	SW045S	200	100N	50	20N	30	200N	200	.05N	11	2.0N	.30	2.0N	38
46	SW046S	300	100N	70	20N	20	200N	200	.05N	21	2.0N	.40	2.0N	27
47	SW047S	500	100N	70	20N	20	200N	300	.05N	17	2.0N	.40	2.0N	22
48	SW048S	300	100N	70	20N	70	200N	300	.05N	8.0	2.0N	.70	2.0N	16
49	SW049S	200	100N	50	20N	20	200N	70	.05N	15	2.0N	.70	2.0N	40
50	SW050S	700	100N	70	20N	20	200N	100	.05N	12	2.0N	.80	2.0N	38
51	SW051S	200	100N	100	20N	30	200N	150	.05N	9.0	2.0N	.70	2.0N	28
52	SW052S	200	100N	50	20N	30	200N	200	.05N	7.0	2.0N	.40	2.0N	45
53	SW053S	200	100N	50	20N	20	200N	70	.05N	14	2.0N	.60	2.0N	37
54	SW054S	200	100N	50	20N	20	200N	100	.05N	11	2.0N	.60	2.0N	47
55	SW055S	300	100N	50	20N	20	200N	300	.05N	12	2.0N	.60	2.0N	35
56	PP001S	150	100N	70	20N	50	200N	150	.05N	5.0N	2.0N	.30	2.0N	41
57	PP002S	300	100N	70	20N	50	200N	300	.05N	5.0N	2.0N	.40	2.0N	33
58	PP003S	300	100N	50	20N	30	200N	100	.05N	5.0	2.0N	.70	7.0	42
59	PP004S	500	100N	70	20N	30	200N	100	.05N	5.0N	2.0N	.70	2.0N	51
60	PP005S	200	100N	30	20N	20	200N	100	.05N	5.0N	2.0N	.40	2.0N	22
61	PP006S	500	100N	70	20N	50	200N	100	.05N	5.0N	2.0N	.60	2.0N	22
62	PP007S	300	100N	70	20N	30	200N	100	.05N	7.0	2.0N	.80	2.0N	47
63	PP008S	300	100N	70	20N	50	200N	100	.05N	8.0	2.0N	1.1	3.0	35
64	PP009S	300	100L	50	20N	70	200N	300	.05N	7.0	2.0N	.60	2.0N	28
65	PP010S	300	100N	50	20N	70	200N	100	.05N	6.0	2.0N	.40	2.0N	29
66	PP011S	500	100N	70	20N	50	200N	100	.05N	5.0N	2.0N	.70	2.0N	33
67	PP012S	500	100N	70	20N	30	200N	150	.05N	8.0	2.0N	.70	2.0N	38
68	PP013S	500	100N	70	20N	50	200N	100	.05N	5.0N	2.0N	.40	2.0N	30
69	PP014S	500	100N	70	20N	30	200N	100	.05N	5.0N	2.0N	.50	2.0N	33
70	PP015S	500	100L	70	20N	70	200N	200	.05N	6.0	2.0N	.60	2.0N	28
71	PP016S	150	100L	50	20N	70	200N	200	.05N	6.0	2.0N	1.0	2.0N	41
72	PP017S	300	100N	70	20N	30	200N	100	.05N	8.0	2.0N	.60	2.0N	29
73	PP018S	500	100N	70	20N	30	200N	150	.05N	6.0	2.0N	.40	2.0N	31
74	PP019S	500	100N	70	20N	50	200N	100	.05N	5.0N	2.0N	.30	2.0N	29
75	PP020S	500	100N	100	20N	50	200N	100	.05N	6.0	2.0N	.50	2.0N	35
76	PP021S	300	100N	100	20N	70	200N	300	.05N	5.0N	2.0N	1.2	2.0N	30
77	PP022S	300	100N	70	20N	50	200N	100	.05N	5.0N	2.0N	.50	2.0N	30
78	PP023S	500	100N	100	20N	50	200N	100	.05N	5.0	2.0N	.50	2.0N	43
79	PP024S	500	100N	70	20N	50	200N	200	.05N	5.0N	2.0N	.50	2.0N	34
80	PP025S	500	100N	70	20N	50	200N	200	.05N	5.0N	2.0N	.60	2.0N	30

Table 3.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Au ppm-A	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
81	PP026S	500	100N	70	20N	30	200N	150	.05N	5.0N	2.0N	.50	2.0N	43
82	PP027S	500	100N	70	20N	50	200N	200	.05N	5.0N	2.0N	.50	2.0N	26
83	PP028S	300	100N	70	20N	30	200N	100	.05N	5.0N	2.0N	.80	2.0N	24
84	PP029S	200	100N	50	20N	30	200N	100	.05N	5.0N	2.0N	.40	2.0N	20
85	PP030S	200	100N	50	20N	30	200N	100	.05N	5.0N	2.0N	.70	2.0N	30
86	PP031S	300	100N	70	20N	100	200N	300	.05N	5.0N	2.0N	1.0	2.0	27
87	PP032S	300	100L	70	20N	100	200N	300	.05N	5.0N	2.0N	.90	2.0N	30
88	PP033S	200	100N	50	20N	50	200N	100	.05N	5.0N	2.0N	.50	2.0N	22
89	PP034S	300	100N	70	20N	30	200N	100	.05N	5.0N	2.0N	.50	2.0N	38
90	PP035S	200	100N	50	20N	20	200N	150	.05N	5.0N	2.0N	.70	2.0N	90
91	PP036S	200	100N	50	20N	30	200N	100	.05N	5.0N	2.0N	.40	2.0N	27
92	GM001S	150	100N	70	20N	20	200N	100	.05N	1.0N	1.0N	.25	1.0N	87
93	GM002S	100	100N	30	20N	20	200N	300	.05N	1.0N	1.0N	.14	1.0N	76
94	GM003S	100	100N	70	20N	15	200N	100	.05N	1.0N	1.0N	.14	1.0N	74
95	GM004S	200	100N	70	20N	15	200N	100	.05N	1.0N	1.0N	.16	1.0N	72
96	GM005S	200	100N	70	20N	15	200N	70	.05N	1.0N	1.0N	.18	1.0N	76
97	GM006S	200	100N	70	20N	10	200N	70	.05N	1.0N	1.0N	.17	1.0N	65
98	GM007S	300	100N	70	20N	15	200N	70	.05N	1.0N	1.0N	.17	1.0N	73
99	GM008S	200	100N	70	20N	15	200N	70	.05N	1.0N	1.0N	.14	1.0N	88
100	GM009S	500	100N	70	20N	20	200N	100	.05N	4.6	1.0N	.17	1.0N	70
101	GM010S	300	100N	70	20N	20	200N	70	.05N	3.1	1.0N	.17	1.0N	75
102	GM011S	150	100N	30	20N	20	200N	100	.05N	3.0	1.0N	.17	1.0N	72
103	GM012S	200	100N	70	20N	20	200N	100	.05N	1.8	1.0N	.15	1.0N	71
104	GM013S	150	100N	20	20N	30	200N	150	.05N	2.4	1.0N	.13	1.0N	83
105	GM014S	100	100N	15	20N	20	200N	100	.05N	2.8	1.0N	.12	1.0N	95
106	GM015S	100L	100N	15	20N	30	200N	300	.05N	1.8	1.0N	.17	1.0N	100
107	GM016S	150	100N	50	20N	30	200N	200	.05N	2.5	1.0N	.13	1.0N	54
108	GM017S	150	100N	50	20N	30	200N	200	.05N	3.0	1.0N	.18	1.0N	85
109	GM018S	150	100N	70	20N	20	200N	150	.05N	6.3	1.0N	.18	1.0N	79
110	GM019S	150	100N	70	20N	15	200N	100	.05N	3.3	1.0N	.14	1.0N	57
111	GM020S	150	100N	70	20N	15	200N	70	.05N	6.8	1.0N	.19	1.0N	83
112	GM021S	150	100N	70	20N	15	200N	100	.05N	6.4	1.0N	.22	1.0N	77
113	GM022S	150	100N	70	20N	15	200N	100	.05N	5.6	1.0N	.20	1.0N	79
114	GM023S	200	100N	70	20N	20	200N	100	.05N	1.8	1.0N	.13	1.0N	73
115	GM024S	100	100N	50	20N	15	200N	70	.05N	2.2	1.0N	.08	1.0N	58
116	GM025S	200	100N	70	20N	20	200N	150	.05N	3.7	1.0N	.10	1.0N	79
117	GM026S	200	100N	70	20N	30	200N	200	.05N	1.3	1.0N	.16	1.0N	81
118	GM027S	200	100N	70	20N	20	200N	100	.05N	1.3	1.0N	.12	1.0N	66
119	GM028S	100	100N	30	20N	30	200N	300	.05N	3.4	1.0N	.31	1.0N	180
120	GM029S	200	100N	50	20N	15	200N	100	.05N	1.8	1.0N	.15	1.0N	61

Table 3.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Au ppm-A	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
121	GM030S	150	100N	50	20N	20	200N	100	.05N	4.0	4.8	.35	1.0	97
122	GM031S	200	100N	50	20N	15	200N	100	.05N	2.5	1.0N	.11	1.0N	52
123	GM032S	200	100N	50	20N	15	200N	70	.05N	3.1	1.0N	.15	1.0N	70
124	GM033S	300	100N	70	20N	15	200N	100	.05N	3.6	1.0N	.14	1.0N	61
125	GM034S	200	100N	70	20N	15	200N	150	.05N	2.5	1.0N	.14	1.0N	72
126	GM035S	300	100N	50	20N	15	200N	70	.05N	3.2	1.0N	.14	1.0N	52
127	GM036S	200	100N	50	20N	15	200N	100	.05N	3.2	1.0N	.16	1.0N	52
128	GM037S	300	100N	50	20N	20	200N	150	.05N	3.4	1.0N	.16	1.0N	60
129	GM038S	200	100N	30	20N	15	200N	100	.05N	3.9	1.0N	.14	1.0N	52
130	GM039S	150	100N	30	20N	15	200N	200	.05N	6.9	1.0N	.14	1.0N	48
131	GM040S	150	100N	50	20N	20	200N	100	.05N	5.2	1.0N	.11	1.0N	54
132	GM041S	200	100N	100	20N	30	200N	200	.05N	7.0	1.0N	.16	1.0N	69
133	CA001S	100L	100N	70	20N	10	200N	200	.05N	7.0	1.0N	.11	1.0N	32
134	CA002S	100L	100N	70	20N	20	200N	500	.05N	7.0	1.0N	.08	1.0N	24
135	CA070S	100L	100N	20	20N	10	200N	200	.05N	7.0	1.0N	.063	1.0N	27
136	CA074S	150	100N	50	20N	10	200N	200	.05N	7.0	1.0N	.10	1.0N	26
137	CA077S	100	100N	70	20N	30	200N	100	.05	7.0	1.0N	.19	1.0N	60
138	CA078S	200	100N	70	20N	15	200N	200	.05N	7.0	1.0N	.14	1.0N	59
139	CP003S	150	100N	150	20N	150	200N	200	.0B	.0B	.0B	.0B	.0B	.0B
140	CP011S	200N	100N	200	20N	300	200N	200	.0B	.0B	.0B	.0B	.0B	.0B
141	CP202S	300	100N	100	50N	30	200N	700	.0B	.0B	.0B	.0B	.0B	.0B
142	CP204S	200	100N	100	50N	20	200N	500	.0B	.0B	.0B	.0B	.0B	.0B
143	CP205S	200	100N	100	50N	30	200N	500	.0B	.0B	.0B	.0B	.0B	.0B
144	CP206S	200	100N	100	50N	50	200N	300	.0B	.0B	.0B	.0B	.0B	.0B
145	CP207S	300	100N	100	50N	30	200N	500	.0B	.0B	.0B	.0B	.0B	.0B
146	CP209S	200	100N	150	50N	50	200N	300	.0B	.0B	.0B	.0B	.0B	.0B
147	CP212S	200	100N	100	50N	30	200N	500	.0B	.0B	.0B	.0B	.0B	.0B
148	CP400S	200	100N	100	50N	30	200N	700	.0B	.0B	.0B	.0B	.0B	.0B
149	CP402S	300	100N	100	50N	20	200N	150	.0B	.0B	.0B	.0B	.0B	.0B
150	CP403S	300	100N	150	50N	30	200L	300	.0B	.0B	.0B	.0B	.0B	.0B

Table 4.--Basic statistics for 150 stream-sediment samples from the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, AZ. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -S, semiquantitative emission spectrography; -A, atomic absorption spectrometry; -P, 5-element inductively coupled plasma-atomic emission spectrometry]

		UNIVARIATE STATISTICS								
	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	CA PCT-S	.30	5.0	1.3	.68	150	0	0	0	0
2	FE PCT-S	1.0	15	3.5	2.0	150	0	0	0	0
3	MG PCT-S	.15	2.0	.89	.35	150	0	0	0	0
4	NA PCT-S	.70	3.0	1.6	.42	138	11	0	1	0
5	P PCT-S	.20	.20	.20	---	11	30	106	3	0
6	TI PCT-S	.15	5.0	.59	.81	150	0	0	0	0
7	AG PPM-S	.50	1.0	.66	.20	10	0	9	131	0
8	AS PPM-S	---	---	---	---	0	0	0	150	0
9	AU PPM-S	---	---	---	---	0	0	0	150	0
10	B PPM-S	10	70	16	14	115	0	34	1	0
11	BA PPM-S	100	2000	630	430	150	0	0	0	0
12	BE PPM-S	1.0	1.5	1.0	.12	49	0	95	6	0
13	BI PPM-S	---	---	---	---	0	0	0	150	0
14	CD PPM-S	---	---	---	---	0	0	0	150	0
15	CO PPM-S	5.0	150	24	16	146	0	4	0	0
16	CR PPM-S	10	200	33	28	129	0	20	1	0
17	CU PPM-S	5.0	2000	53	170	147	0	3	0	0
18	GA PPM-S	15	70	34	11	139	11	0	0	0
19	GE PPM-S	---	---	---	---	0	11	0	139	0
20	LA PPM-S	30	200	98	42	111	0	33	6	0
21	MN PPM-S	100	3000	410	290	150	0	0	0	0
22	MO PPM-S	5.0	5.0	5.0	---	5	0	46	99	0
23	NB PPM-S	20	50	24	8.9	56	0	82	12	0
24	NI PPM-S	5.0	200	32	30	146	0	4	0	0
25	PB PPM-S	10	300	31	31	149	0	1	0	0
26	SB PPM-S	---	---	---	---	0	0	0	150	0
27	SC PPM-S	5.0	20	11	3.8	146	0	4	0	0
28	SN PPM-S	10	20	13	5.0	4	0	7	139	0
29	SR PPM-S	100	700	270	120	145	0	4	1	0
30	TH PPM-S	---	---	---	---	0	0	11	139	0
31	V PPM-S	15	500	67	44	150	0	0	0	0
32	W PPM-S	---	---	---	---	0	0	0	150	0
33	Y PPM-S	10	300	36	30	150	0	0	0	0
34	ZN PPM-S	200	200	200	---	1	0	2	147	0
35	ZR PPM-S	50	700	170	110	150	0	0	0	0
36	AU PPM-A	.05	.05	.05	---	1	12	0	137	0
37	AS PPM-P	1.3	21	7.4	4.3	97	12	0	41	0
38	BI PPM-P	4.8	4.8	4.8	---	1	12	0	137	0
39	CD PPM-P	.063	1.2	.41	.25	137	12	0	1	0
40	SB PPM-P	1.0	7.0	3.4	2.0	7	12	0	131	0
41	ZN PPM-P	16	190	51	27	138	12	0	0	0

Table 5.--Results of analyses of slightly magnetic heavy-mineral-concentrate samples from the Swansea (field # prefix SW), Planet Peak (PP and BM), Gibraltar Mountain (GM), Cactus Plain (CA and CP), and East Cactus Plain (CA and CP) Wilderness Study Areas, La Paz and Mohave Counties, AZ. [N, not detected; L, detected but below the limit of determination shown; G, greater than the value shown.]

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
1	SW001HC2	341030	1135321	1.5	10	1.5	.70	.50	1.0	1.0N	500N	20N	20	300	2.0L	20N
2	SW002HC2	341037	1135246	1.5	15	1.0	.50	.50N	1.0	1.0N	500N	20N	20	200	2.0L	20N
3	SW003HC2	341048	1135234	3.0	10	.70	.50	.50L	1.5	1.0N	500N	20N	20L	200	2.0L	20N
4	SW004HC2	341106	1135215	2.0	10	1.5	.50L	.50N	1.0	1.0N	500N	20N	20L	200	2.0L	20N
5	SW005HC2	341105	1135134	2.0	15	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	300	2.0L	20N
6	SW006HC2	341144	1135045	1.5	7.0	1.5	.70	.50N	1.0	1.0N	500N	20N	20L	150	2.0N	20N
7	SW007HC2	341142	1135045	1.5	7.0	1.0	.50	.50L	1.5	1.0N	500N	20N	20L	300	2.0N	20N
8	SW008HC2	341147	1135026	1.5	10	1.5	.50	.50L	1.0	1.0N	500N	20N	20L	200	2.0N	20N
9	SW009HC2	341222	1134929	1.5	20	.70	.50	.50N	1.5	1.0N	500N	20N	20	300	2.0	20N
10	SW010HC2	341221	1134926	.50	30	.30	.50	.50L	1.5	1.0N	500N	20N	20	1000	2.0L	20N
11	SW011HC2	341236	1134945	1.0	20	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	300	2.0L	20N
12	SW012HC2	341246	1134946	2.0	10	2.0	.70	.50L	1.0	1.0N	500N	20N	20L	200	2.0L	20N
13	SW013HC2	341256	1134941	2.0	10	1.5	.50	.50L	1.0	1.0N	500N	20N	20L	150	2.0L	20N
14	SW014HC2	341257	1135007	3.0	7.0	1.0	.50	.50L	2.0	1.0N	500N	20N	20L	150	2.0N	20N
15	SW015HC2	341255	1135004	3.0	7.0	1.5	.70	.50L	2.0	1.0N	500N	20N	20	300	2.0N	20N
16	SW016HC2	341319	1134941	1.5	10	1.0	.50	.50L	1.5	1.0N	500N	20N	20	200	2.0N	20N
17	SW017HC2	341254	1134904	1.5	15	1.0	.70	.50L	1.0	1.0N	500N	20N	20L	1000	2.0L	20N
18	SW018HC2	341306	1134914	3.0	10	1.5	.50	.50L	1.5	1.0N	500N	20N	20	300	2.0L	20N
19	SW019HC2	341338	1134938	2.0	10	1.5	.50	.50L	1.5	1.0N	500N	20N	20L	150	2.0L	20N
20	SW020HC2	341354	1134918	2.0	7.0	1.5	.50	.50L	1.0	1.0N	500N	20N	20L	150	2.0L	20N
21	SW021HC2	341411	1134903	3.0	10	1.0	.50L	.50L	1.5	1.0N	500N	20N	20L	100	2.0L	20N
22	SW022HC2	341417	1134849	3.0	15	1.5	.70	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
23	SW023HC2	341407	1134837	7.0	15	1.5	.50	.50L	1.5	1.0N	500N	20N	20L	300	2.0L	20N
24	SW024HC2	341418	1134802	7.0	15	2.0	.70	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
25	SW025HC2	341331	1135023	5.0	10	3.0	.70	.50L	1.5	1.0N	500N	20N	20L	150	2.0N	20N
26	SW026HC2	341359	1135001	7.0	20	2.0	.50L	.50L	1.5	1.0N	500N	20N	20	150	2.0	20N
27	SW027HC2	341358	1134958	7.0	30	1.5	.50L	.50L	1.5	1.0N	500N	20N	20	150	2.0	20N
28	SW028HC2	341347	1135033	7.0	10	1.5	.70	.50L	2.0	1.0N	500N	20N	20	150	2.0N	20N
29	SW029HC2	341353	1135036	5.0	7.0	1.5	.50	.50L	2.0	1.0N	500N	20N	20	100	2.0L	20N
30	SW030HC2	341412	1135051	1.5	7.0	1.0	.50	.50L	2.0G	1.0N	500N	20N	20L	100	2.0N	20N
31	SW031HC2	341427	1135032	5.0	10	2.0	.50	.50L	2.0	1.0N	500N	20N	20L	150	2.0L	20N
32	SW032HC2	341456	1135042	5.0	10	1.0	.50	.50L	2.0	1.0N	500N	20N	20L	150	2.0L	20N
33	SW033HC2	341539	1135014	.30	50	.70	.50N	.50L	2.0	1.0N	500N	20N	50	3000	2.0L	20N
34	SW034HC2	341607	1134957	.20	50	.70	.50N	.50L	2.0	1.0N	500N	20N	70	2000	3.0	20N
35	SW035HC2	341508	1135054	1.5	30	2.0	.50	.50L	2.0	1.0N	500N	20N	70	3000	2.0	20N
36	SW036HC2	341520	1135134	.70	30	3.0	.50	.50L	1.5	1.0N	500N	20N	50	700	2.0L	20N
37	SW037HC2	341453	1135123	7.0	15	1.5	.50	.50L	2.0G	1.0N	500N	20N	20L	200	2.0L	20N
38	SW038HC2	341201	1135330	5.0	20	1.5	.50	.50L	2.0	1.0N	500N	20N	20	150	2.0N	20N
39	SW039HC2	341208	1135326	5.0	15	2.0	.50L	.50L	1.5	1.0N	500N	20N	20L	150	2.0N	20N
40	SW040HC2	341210	1135325	7.0	15	2.0	.50	.50L	2.0G	1.0N	500N	20N	20	150	2.0L	20N

Table 5.--continued

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
41	SW041HC2	341253	1135352	3.0	5.0	.70	.50L	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
42	SW042HC2	341344	1135417	2.0	7.0	.70	.50L	.50L	1.5	1.0N	500N	20N	20L	200	2.0L	20N
43	SW043HC2	341404	1135357	3.0	5.0	1.5	.50	.50L	1.0	1.0N	500N	20N	20L	150	2.0L	20N
44	SW044HC2	341435	1135320	2.0	7.0	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	150	2.0N	20N
45	SW045HC2	341444	1135246	3.0	7.0	1.5	.50L	.50L	.70	1.0N	500N	20N	20L	100	2.0L	20N
46	SW046HC2	341442	1135256	2.0	7.0	1.5	.50	.50L	.70	1.0N	500N	20N	20L	200	2.0L	20N
47	SW047HC2	341500	1135236	3.0	7.0	1.5	.50	.50L	.70	1.0N	500N	20N	20L	150	2.0N	20N
48	SW048HC2	341501	1135207	3.0	7.0	1.0	.50L	.50L	1.0	1.0N	500N	20N	20L	100	2.0L	20N
49	SW049HC2	341555	1135230	1.0	20	3.0	.50	.50L	1.5	1.0N	500N	20N	20	500	2.0L	20N
50	SW050HC2	341613	1135221	1.0	7.0	5.0	.70	.50L	.20	1.0N	500N	20N	20L	300	2.0N	20N
51	SW051HC2	341645	1135214	.30	3.0	.50	.50N	.50N	1.5	1.0N	500N	20N	20L	300	2.0L	20N
52	SW052HC2	341643	1135218	.30	20	.20	.50N	.50L	1.5	1.0N	500N	20N	20L	300	2.0L	20N
53	SW053HC2	341637	1135208	.50	10	5.0	.50L	.50L	1.0	1.0N	500N	20N	30	500	2.0L	20N
54	SW054HC2	341629	1135208	.70	7.0	7.0	.50	.50L	.30	1.0N	500N	20N	20L	150	2.0N	20N
55	SW055HC2	341623	1135207	.50	10	7.0	.50L	.50L	.70	1.0N	500N	20N	20	100	2.0N	20N
56	PP001HC2	341212	1135936	1.5	20	.50	.50N	.50L	1.0	1.0N	500N	20N	20	700	2.0L	20N
57	PP002HC2	341134	1135917	2.0	7.0	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	300	2.0N	20N
58	PP003HC2	341048	1135843	3.0	7.0	1.5	.70	.50L	1.5	1.0N	500N	20N	20L	300	2.0L	20N
59	PP004HC2	341101	1135903	3.0	7.0	1.5	.50	.50L	.70	1.0N	500N	20N	20L	500	2.0N	20N
60	PP005HC2	341008	1135721	1.5	10	1.5	.50L	.50L	1.0	1.0N	500N	20N	200	700	2.0	20N
61	PP006HC2	341012	1135737	3.0	7.0	1.0	.50	.50L	.70	1.0N	500N	20N	20N	300	2.0N	20N
62	PP007HC2	341241	1140007	2.0	7.0	1.5	.50	.50L	1.0	1.0N	500N	20N	20	500	2.0N	20N
63	PP008HC2	341222	1140028	2.0	10	.70	.50L	.50L	1.0	1.0N	500N	20N	20N	300	2.0N	20N
64	PP009HC2	341108	1140034	3.0	7.0	.70	.50L	.50	2.0	1.0N	500N	20N	20L	500	2.0L	20N
65	PP010HC2	341032	1140130	3.0	7.0	1.0	.50	.50L	1.5	1.0N	500N	20N	20L	500	2.0L	20N
66	PP011HC2	341050	1140121	2.0	10	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	700	2.0N	20N
67	PP012HC2	341107	1140111	2.0	10	.70	.50	.50L	1.0	1.0N	500N	20N	20L	700	2.0N	20N
68	PP013HC2	340810	1135748	3.0	7.0	1.0	.50	.50L	.50	1.0N	500N	20N	20L	200	2.0N	20N
69	PP014HC2	340846	1135649	2.0	7.0	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	200	2.0N	20N
70	PP015HC2	341031	1135803	3.0	7.0	1.0	.50L	.50L	1.5	1.0N	500N	20N	20	300	2.0N	20N
71	PP016HC2	341033	1135814	3.0	7.0	1.0	.50L	.50	1.5	1.0N	500N	20N	20N	200	2.0L	20N
72	PP017HC2	340927	1135641	3.0	7.0	.70	.50L	.50L	.70	1.0N	500N	20N	20	300	2.0N	20N
73	PP018HC2	340838	1135714	3.0	7.0	1.5	.50	.50L	.70	1.0N	500N	20N	20L	200	2.0N	20N
74	PP019HC2	340836	1135729	3.0	7.0	1.0	.50	.50L	.20	1.0N	500N	20N	20L	200	2.0N	20N
75	PP020HC2	340833	1135732	5.0	10	1.0	.50L	.50L	1.0	1.0N	500N	20N	20L	300	2.0N	20N
76	PP021HC2	340822	1135828	2.0	15	.30	.50L	.50L	1.0	1.0N	500N	20N	20L	200	2.0N	20N
77	PP022HC2	340823	1135843	3.0	7.0	1.0	.50	.50L	.70	1.0N	500N	20N	20L	200	2.0N	20N
78	PP023HC2	340811	1135850	5.0	7.0	1.5	.50	.50L	1.0	1.0N	500N	20N	20N	200	2.0N	20N
79	PP024HC2	340837	1135931	3.0	10	1.0	.50L	.50L	.70	1.0N	500N	20N	20L	500	2.0N	20N
80	PP025HC2	340835	1135934	3.0	15	1.0	.50	.50L	1.0	1.0N	500N	20N	20L	500	2.0N	20N

Table 5.--continued

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
81	PP026HC2	340813	1135936	5.0	5.0	.70	.50	.50L	.30	1.0N	500N	20N	20N	150	2.0N	20N
82	PP027HC2	340813	1140027	3.0	10	1.0	.50L	.50L	.70	1.0N	500N	20N	20L	200	2.0N	20N
83	PP028HC2	340822	1140051	1.5	30	.70	.50N	.50N	.70	1.0N	500N	20N	20L	300	2.0	20N
84	PP029HC2	340827	1140115	2.0	10	1.0	.50L	.50L	1.5	1.0N	500N	20N	20L	300	2.0L	20N
85	PP030HC2	340827	1140133	1.5	20	.70	.50L	.50N	1.0	1.0N	500N	20N	20L	200	2.0L	20N
86	PP031HC2	340913	1140152	2.0	15	1.5	.50L	.50L	1.5	1.0N	500N	20N	20L	300	2.0L	20N
87	PP032HC2	340916	1140152	3.0	10	1.5	.50	.50L	2.0	1.0N	500N	20N	20L	200	2.0L	20N
88	PP033HC2	340901	1140221	2.0	15	1.0	.50N	.50L	1.5	1.0N	500N	20N	20L	300	2.0N	20N
89	PP034HC2	340946	1140213	2.0	10	1.5	.50L	.50L	1.0	1.0N	500N	20N	20L	500	2.0L	20N
90	PP035HC2	340943	1140209	1.5	20	1.5	.50	.50L	1.0	1.0N	500N	20N	20L	500	2.0L	20N
91	PP036HC2	340933	1140158	3.0	10	1.5	.50L	.50L	2.0	1.0N	500N	20N	20L	300	2.0L	20N
92	GM001HC2	340944	1140740	1.5	20	1.5	1.5	.50L	1.0	1.0N	500N	20N	20L	300	2.0	20N
93	GM002HC2	340922	1140654	1.0	20	.70	.50	.50L	2.0	1.0N	500N	20N	20	150	2.0	20N
94	GM003HC2	340924	1140648	2.0	15	3.0	1.0	.50L	2.0	1.0N	500N	20N	20L	300	2.0	20N
95	GM004HC2	340936	1140638	2.0	15	2.0	1.5	.50	2.0	1.0N	500N	20N	20	200	2.0L	20N
96	GM005HC2	340953	1140636	2.0	10	3.0	1.0	.50L	2.0	1.0N	500N	20N	20L	200	2.0L	20N
97	GM006HC2	341017	1140625	2.0	7.0	2.0	1.5	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
98	GM007HC2	341021	1140623	2.0	10	2.0	1.5	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
99	GM008HC2	341028	1140636	2.0	7.0	5.0	.70	.50L	2.0	1.0N	500N	20N	20L	100	2.0N	20N
100	GM009HC2	341017	1140652	2.0	10	3.0	1.5	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
101	GM010HC2	341024	1140744	2.0	10	3.0	1.0	.50L	2.0	1.0N	500N	20N	20L	200	2.0N	20N
102	GM011HC2	341020	1140740	2.0	10	1.5	1.5	.50L	2.0	1.0N	500N	20N	20L	200	2.0L	20N
103	GM012HC2	341034	1140748	1.5	10	1.5	1.5	.50L	2.0	1.0N	500N	20N	20L	200	2.0L	20N
104	GM013HC2	340845	1140745	1.5	30	1.5	.70	.50	1.5	1.0N	500N	20N	20L	300	2.0	20N
105	GM014HC2	340737	1140747	1.5	30	1.5	.50	.50	2.0	1.0N	500N	20N	20	300	2.0	20N
106	GM015HC2	340721	1140716	1.0	30	.50	.70	.50L	1.0	1.0N	500N	20N	20L	200	2.0	20N
107	GM016HC2	340710	1140541	2.0	10	2.0	1.5	.50L	2.0	3.0	500N	20N	20L	300	2.0L	20N
108	GM017HC2	340757	1140456	2.0	20	2.0	1.0	.50L	2.0	1.0N	500N	20N	20L	1500	2.0L	20N
109	GM018HC2	340821	1140409	1.5	15	2.0	1.0	.50L	2.0	1.0N	500N	20N	20L	300	2.0L	20N
110	GM019HC2	340818	1140414	2.0	10	3.0	1.5	.50L	2.0	1.0N	500N	20N	20L	300	2.0N	20N
111	GM020HC2	340955	1140352	1.5	10	2.0	1.5	.50L	2.0	1.0N	500N	20N	20L	500	2.0N	20N
112	GM021HC2	341013	1140355	2.0	10	2.0	1.0	.50L	2.0	1.0N	500N	20N	20	300	2.0L	20N
113	GM022HC2	341133	1140403	2.0	15	3.0	1.0	.50L	2.0	1.0N	500N	20N	20	300	2.0L	20N
114	GM023HC2	341334	1140835	1.5	20	2.0	.70	.50	2.0G	1.0N	500N	20N	20L	300	2.0L	20N
115	GM024HC2	341341	1140836	1.5	10	1.5	1.5	.50L	2.0G	1.0N	500N	20N	20L	300	2.0L	20N
116	GM025HC2	341452	1140813	1.0	20	1.5	.70	.50	2.0G	1.0N	500N	20N	20	3000	2.0L	20N
117	GM026HC2	341444	1140617	1.5	15	1.5	1.0	.50	2.0G	1.0N	500N	20N	20L	500	2.0L	20N
118	GM027HC2	341337	1140556	3.0	10	3.0	1.5	.50	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
119	GM028HC2	341305	1140525	1.0	30	1.0	.50	.50	2.0	1.0N	500N	20N	20L	300	2.0	20N
120	GM029HC2	341459	1140658	2.0	10	2.0	1.5	.50	2.0G	1.0N	500N	20N	20L	500	2.0L	20N

Table 5.--continued

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
121	GM030HC2	340932	1140743	1.0	30	1.0	.50L	.50L	1.0	1.0N	500N	20N	20	7000	2.0L	20N
122	GM031HC2	340928	1140819	2.0	15	2.0	.70	.50L	2.0	1.0N	500N	20N	20	300	2.0L	20N
123	GM032HC2	340911	1140836	1.5	20	1.5	.50	.50L	2.0	1.0N	500N	20N	30	200	2.0N	20N
124	GM033HC2	341037	1140824	2.0	15	2.0	1.0	.50L	2.0	1.0N	500N	20N	30	200	2.0N	20N
125	GM034HC2	341038	1140819	1.5	30	2.0	.50	.50L	2.0G	1.0N	500N	20N	20	300	2.0L	20N
126	GM035HC2	340940	1140834	1.5	20	2.0	1.0	.50L	2.0G	1.0N	500N	20N	50	300	2.0L	20N
127	GM036HC2	340929	1140917	2.0	20	2.0	1.5	.50	2.0G	1.0N	500N	20N	20L	500	2.0L	20N
128	GM037HC2	340932	1140934	1.5	10	1.5	1.5	.50	2.0G	1.0N	500N	20N	50	500	2.0L	20N
129	GM038HC2	340940	1140950	1.5	15	1.5	1.0	.50L	2.0G	1.0N	500N	20N	70	300	2.0N	20N
130	GM039HC2	341047	1141121	1.5	30	.70	.50	.50L	1.5	1.0N	500N	20N	150	2000	2.0L	20L
131	GM040HC2	341129	1141033	1.0	30	.70	.50	.50L	2.0	1.0N	500N	20N	100	1500	2.0	20N
132	GM041HC2	341001	1141026	1.5	10	2.0	1.0	.50L	2.0	1.0N	500N	20N	20	300	2.0L	20N
133	CA001HC2	340505	1135443	1.0	30	1.0	.50L	.50L	1.5	1.0N	500N	20N	20	1500	2.0L	20N
134	CA002HC2	340500	1135519	1.0	20	.70	.50N	.50N	1.5	1.0N	500N	20N	30	2000	2.0L	20N
135	CA042HC2	340456	1141106	1.0	30	.70	.50L	.50L	2.0	1.0N	500N	20N	300	300	2.0L	20N
136	CA070HC2	340605	1140650	1.0	30	.70	.50L	.50L	2.0	1.0N	500N	20N	50	300	2.0L	20N
137	CA074HC2	340657	1141040	1.0	20	1.0	.50L	.50L	2.0	1.0N	500N	20N	100	300	2.0N	20N
138	CA077HC2	340923	1140220	.30	30	.70	.50N	.50N	.10	1.0N	500N	20N	20N	100	2.0N	20N
139	CA078HC2	340801	1140259	1.0	30	.50	.50N	.50N	.70	1.0N	500N	20N	20	300	2.0N	20N
140	CP003HC2	340617	1140636	1.0	10	.70	.50L	.50L	1.0	1.0N	500N	20N	50	2000	2.0L	20N
141	CP011HC2	340727	1141027	.30	15	.30	.50N	.50N	1.5	1.0N	500N	20N	50	1000	2.0N	20N
142	CP202HC2	340148	1140525	1.0	10	.70	.50N	.50N	2.0	1.0N	500N	20N	20	300	2.0N	20N
143	CP204HC2	335752	1140435	.20	10	.50	.50N	.50N	.70	1.0N	500N	20N	70	7000	2.0	20N
144	CP205HC2	335714	1140502	.30	10	.50	.50N	.50N	1.0	1.0N	500N	20N	100	5000	5.0	20N
145	CP206HC2	335655	1140308	.15	10	.20	.50N	.50N	1.0	1.0N	500N	20N	20	3000	3.0	20N
146	CP207HC2	335701	1140315	.10	15	.15	.50N	.50N	.70	1.0N	500N	20N	20	7000	2.0L	20N
147	CP209HC2	335720	1140343	.20	15	.20	.50N	.50L	.70	1.0N	500N	20N	30	1000	2.0L	20N
148	CP212HC2	340748	1140228	1.0	7.0	.50	.50N	.50N	.30	1.0N	500N	20N	20L	200	2.0N	20N
149	CP400HC2	335825	1140140	.70	15	.50	.50N	.50N	.70	5.0	500L	20N	50	10000G	7.0	20N
150	CP401HC2	335804	1140210	1.0	7.0	.70	.50N	.50N	2.0	1.0N	500N	20N	20	500	2.0N	20N
151	CP402HC2	335640	1135938	1.0	10	1.0	.50L	.50N	1.0	1.0N	500N	20N	20	2000	2.0L	20N
152	CP403HC2	335605	1135922	1.0	10	.70	.50N	.50N	1.5	1.0N	500	20N	20	10000G	5.0	20N

Table 5.--continued.

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
1	SW001HC2	50N	150	50	70	50	20N	200	1500	10L	50L	70	70	200N	50	20N
2	SW002HC2	50N	150	50	300	50	20N	500	700	10	50	50	70	200N	20	20N
3	SW003HC2	50N	200	100	70	50	20N	1000	1000	10	100	70	70	200N	50	20L
4	SW004HC2	50N	100	150	150	30	20N	500	1000	10L	100	100	70	200N	50	20L
5	SW005HC2	50N	300	50	200	50	20N	700	1000	10	70	100	100	200N	50	20N
6	SW006HC2	50N	100	30	70	30	20N	500	1000	10L	50	70	100	200N	30	20N
7	SW007HC2	50N	100	50	70	20	20N	1000	1000	10N	70	30	70	200N	20	20N
8	SW008HC2	50N	70	70	200	20	20N	1000	1000	10L	70	50	500	200N	30	20N
9	SW009HC2	50N	300	50	700	20	20N	2000	1500	20	100	70	700	200N	30	20
10	SW010HC2	50N	100	100	500	20	20N	200	3000	15	50	30	300	200N	15	20N
11	SW011HC2	50N	300	50	1000	50	20N	1000	1000	30	50	70	1000	200N	20	20N
12	SW012HC2	50N	100	150	500	50	20N	300	1000	10N	50	200	300	200N	30	20N
13	SW013HC2	50N	70	100	100	30	20N	700	1000	10N	50	70	30	200N	50	20N
14	SW014HC2	50N	50	50	70	30	20N	700	1500	10L	150	50	30	200N	70	20L
15	SW015HC2	50N	70	100	100	70	20N	700	1000	10L	150	70	50	200N	70	20
16	SW016HC2	50N	150	50	100	30	20N	700	1500	10	100	70	70	200N	30	20L
17	SW017HC2	50N	200	50	700	30	20N	1000	1500	15	50	50	150	200N	30	20N
18	SW018HC2	50N	100	100	300	50	20N	700	1500	15	70	70	70	200N	50	20N
19	SW019HC2	50N	70	100	300	30	20N	700	1000	10L	100	150	50	200N	30	20N
20	SW020HC2	50N	50	70	500	70	20N	300	700	10N	70	70	50	200N	30	20N
21	SW021HC2	50N	70	70	1500	70	20N	700	700	10N	70	70	50	200N	30	20N
22	SW022HC2	50N	150	100	100	50	20N	500	2000	10N	70	70	50	200N	50	20N
23	SW023HC2	50N	70	100	100	50	20N	500	1500	10L	100	100	50	200N	70	20L
24	SW024HC2	50N	150	100	200	70	20N	700	1500	10L	100	100	70	200N	100	20L
25	SW025HC2	50N	100	150	50	50	20N	300	1500	10N	70	150	30	200N	70	20N
26	SW026HC2	50N	200	100	700	50	20N	2000	1500	10	100	100	30	200N	50	20L
27	SW027HC2	50N	200	100	700	50	20N	1000	1000	10	100	70	30	200N	50	20L
28	SW028HC2	50N	70	100	200	70	20N	700	1000	10L	100	70	50	200N	70	20
29	SW029HC2	50N	50	100	50	50	20N	700	1000	10L	150	70	50	200N	50	30
30	SW030HC2	50N	50	50	20	50	20N	1000	700	10L	200	50	50	200N	70	50
31	SW031HC2	50N	50	150	100	70	20N	500	700	10N	100	200	20	200N	50	20L
32	SW032HC2	50N	30	70	100	70	20N	700	700	10L	150	70	50	200N	70	30
33	SW033HC2	50N	70	200	200	10L	20N	100	5000	15	50	150	200	200N	15	20N
34	SW034HC2	50N	100	150	150	10L	20N	150	5000	20	70	150	500	200N	15	20N
35	SW035HC2	50N	100	200	300	30	20N	500	5000	15	70	200	300	200N	50	20N
36	SW036HC2	50N	100	300	200	10L	20N	100L	3000	10	50	700	200	200N	15	20N
37	SW037HC2	50N	70	100	200	50	20N	500	1500	10L	150	70	30	200N	70	20
38	SW038HC2	50N	200	150	100	70	20N	1000	1000	10L	100	100	70	200N	100	20
39	SW039HC2	50N	50	100	150	50	20N	500	700	10L	70	70	20	200N	50	20N
40	SW040HC2	50N	70	100	300	70	20N	1000	1000	10L	150	50	70	200N	100	50

Table 5.--continued.

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
41	SW041HC2	50N	50	30	20	30	20N	1000	700	10	200	30	50	200N	100	30
42	SW042HC2	50N	150	50	70	30	20N	700	1000	10	100	30	70	200N	50	20
43	SW043HC2	50N	50	50	50	30	20N	700	1000	10N	100	30	30	200N	50	20L
44	SW044HC2	50N	70	100	50	30	20N	300	700	10N	150	70	20	200N	70	20L
45	SW045HC2	50N	50	70	50	30	20N	500	700	10N	100	50	20	200N	30	20N
46	SW046HC2	50N	150	100	20	30	20N	150	700	10N	50L	70	20	200N	50	20N
47	SW047HC2	50N	100	70	10L	30	20N	150	700	10N	50L	50	20	200N	30	20N
48	SW048HC2	50N	100	100	200	30	20N	500	700	10N	100	50	20	200N	70	20N
49	SW049HC2	50N	100	500	50	10L	20N	150	1500	10N	50	500	100	200N	30	20N
50	SW050HC2	50N	150	500	30	10L	20N	100N	1000	10N	50N	700	70	200N	15	20N
51	SW051HC2	50N	100	150	50	10L	20N	200	1000	10L	70	100	70	200N	20	20N
52	SW052HC2	50N	70	150	30	10L	20N	200	1500	10L	70	50	70	200N	20	20N
53	SW053HC2	50N	150	500	70	10L	20N	100N	1500	10L	70	700	70	200N	20	20N
54	SW054HC2	50N	150	500	20	10L	20N	150	1000	10N	50N	1000	20	200N	15	20N
55	SW055HC2	50N	150	500	30	10L	20N	150	1000	10N	50L	1000	20	200N	15	20N
56	PP001HC2	50N	100	50	70	20	20N	1000	1500	10	150	30	70	200N	50	20L
57	PP002HC2	50N	150	70	70	30	20N	1000	1000	10L	100	70	100	200N	70	20N
58	PP003HC2	50N	100	100	50	50	20N	500	1000	10N	100	100	50	200N	100	20L
59	PP004HC2	50N	100	150	70	30	20N	500	1000	10N	50L	100	70	200N	70	20N
60	PP005HC2	50N	150	70	300	50	20N	700	2000	10	100	100	70	200N	20	20L
61	PP006HC2	50N	20	50	20	50	20N	700	1000	10L	70	50	20	200N	70	20N
62	PP007HC2	50N	150	100	150	30	20N	200	700	10N	50L	70	30	200N	50	20N
63	PP008HC2	50N	100	50	100	20	20N	1000	700	10L	100	50	20	200N	50	20N
64	PP009HC2	50N	70	50	100	20	20N	700	1000	10L	150	30	30	200N	100	20
65	PP010HC2	50N	100	50	70	20	20N	700	1000	10L	100	50	50	200N	70	20L
66	PP011HC2	50N	150	70	50	50	20N	500	1500	10L	50L	30	300	200N	70	20N
67	PP012HC2	50N	100	70	20	50	20N	700	1000	10L	50	30	70	200N	70	20N
68	PP013HC2	50N	70	70	20	30	20N	500	700	10N	50	50	20	200N	70	20N
69	PP014HC2	50N	100	50	20	20	20N	700	700	10N	50	30	20	200N	50	20N
70	PP015HC2	50N	100	70	70	30	20N	700	1000	10L	100	50	30	200N	70	20L
71	PP016HC2	50N	50	70	70	20	20N	1000	1000	10	100	50	30	200N	70	20
72	PP017HC2	50N	70	50	50	20	20N	700	1000	10L	50	20	30	200N	70	20N
73	PP018HC2	50N	70	70	30	20	20N	700	700	10L	50	50	20	200N	50	20N
74	PP019HC2	50N	20	50	20	20	20N	300	700	10N	50L	20	20L	200N	50	20N
75	PP020HC2	50N	100	100	70	30	20N	700	1500	10	50	50	20	200N	100	20N
76	PP021HC2	50N	150	30	70	30	20N	500	700	10	70	20	30	200N	50	20N
77	PP022HC2	50N	50	50	15	30	20N	700	700	10N	50	30	20	200N	50	20N
78	PP023HC2	50N	50	70	50	50	20N	700	1000	10N	50	30	30	200N	70	20N
79	PP024HC2	50N	70	50	50	30	20N	500	1000	10N	50	20	30	200N	50	20N
80	PP025HC2	50N	100	70	70	30	20N	700	1000	10L	50	30	20	200N	70	20N

Table 5.--continued.

Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
81 PP026HC2	50N	20	20L	15	70	20N	200	700	10N	50L	10	30	200N	50	20N
82 PP027HC2	50N	70	50	70	50	20N	500	700	10L	50	30	20	200N	100	20N
83 PP028HC2	50N	150	50	150	10L	20N	500	500	10	50	50	20L	200N	50	20L
84 PP029HC2	50N	100	70	100	20	20N	700	700	10	150	70	30	200N	70	20
85 PP030HC2	50N	100	30	70	20	20N	500	700	10L	70	50	30	200N	50	20L
86 PP031HC2	50N	100	70	100	20	20N	700	700	10	150	50	30	200N	70	30
87 PP032HC2	50N	70	30	70	70	20N	700	1000	10	150	30	70	200N	70	50
88 PP033HC2	50N	100	30	150	10L	20N	700	700	10	150	30	30	200N	70	30
89 PP034HC2	50N	100	50	100	50	20N	500	1500	10	100	50	70	200N	50	20N
90 PP035HC2	50N	200	70	200	30	20N	500	1500	10	70	50	200	200N	30	20N
91 PP036HC2	50N	50	30	70	30	20N	700	1000	10	100	50	30	200N	100	20L
92 GM001HC2	50N	100	50	70	10L	20N	150	5000	10L	70	50	30	200N	20	20N
93 GM002HC2	50N	30	50	20	10N	20N	500	3000	20	150	30	30	200N	50	20N
94 GM003HC2	50N	70	300	70	10L	20N	300	2000	10	100	200	20L	200N	50	20N
95 GM004HC2	50N	70	100	70	30	20N	100N	1000	10N	50	100	20L	200N	50	20N
96 GM005HC2	50N	100	100	50	10L	20N	100L	1500	10N	50	150	20L	200N	50	20N
97 GM006HC2	50N	100	150	50	50	20N	100N	1000	10N	50L	150	20L	200N	30	20N
98 GM007HC2	50N	100	200	70	15	20N	100N	1000	10N	50L	150	20L	200N	30	20N
99 GM008HC2	50N	100	300	30	30	20N	100N	1500	10N	50L	500	20L	200N	50	20N
100 GM009HC2	50N	70	100	50	30	20N	100N	1500	10N	50L	150	20L	200N	50	20N
101 GM010HC2	50N	100	150	70	10L	20N	100L	1500	10N	50L	300	20L	200N	30	20N
102 GM011HC2	50N	50	100	50	10L	20N	100L	3000	10L	100	70	20N	200N	20	20N
103 GM012HC2	50N	70	100	70	10L	20N	100N	1500	10N	50	100	20N	200N	20	20N
104 GM013HC2	50N	30	20N	10	10N	20N	300	5000	15	100	10L	20L	200N	70	20N
105 GM014HC2	50N	20	20L	10	10N	20N	300	5000	10	100	10L	20	200N	70	20N
106 GM015HC2	50N	20L	20N	10	10N	20N	300	7000	20	100	10L	70	200N	30	20N
107 GM016HC2	50N	50	150	50	30	20N	150	1500	10N	70	100	20L	200N	30	20N
108 GM017HC2	50N	50	150	30	10L	20N	150	3000	10	70	50	30	200N	50	20N
109 GM018HC2	50N	70	50	70	10N	20N	150	2000	10	50	50	50	200N	30	20N
110 GM019HC2	50N	70	50	70	30	20N	100N	1500	10N	50L	70	20L	200N	30	20N
111 GM020HC2	50N	70	70	50	30	20N	100N	1500	10N	50	70	30	200N	30	20N
112 GM021HC2	50N	50	150	50	10L	20N	100N	1500	10N	50	70	20L	200N	50	20N
113 GM022HC2	50N	70	100	70	10L	20N	100L	2000	10N	50	70	20	200N	50	20L
114 GM023HC2	50N	150	100	50	10N	20N	100L	1500	10L	50	100	20L	200N	30	20N
115 GM024HC2	50N	70	100	30	30	20N	100L	1500	10N	70	50	70	200N	20	20N
116 GM025HC2	50N	100	100	100	30	20N	150	5000	10	50	100	100	200N	30	20N
117 GM026HC2	50N	70	50	30	10N	20N	100	2000	10	100	20	20	200N	30	20N
118 GM027HC2	50N	70	200	50	30	20N	100N	1500	10N	50	100	20N	200N	50	20N
119 GM028HC2	50N	50	20N	20	10N	20N	150	5000	10	150	10	30	200N	30	20N
120 GM029HC2	50N	70	100	30	10L	20N	100N	1500	10L	50	100	20	200N	30	20N

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-
121	GM030HC2	50N	500	100	1000	10N	20N	150	5000	10	50L	70	50	200N	30	20N
122	GM031HC2	50N	70	200	70	10N	20N	200	2000	10N	70	150	30	200N	30	20N
123	GM032HC2	50N	70	200	70	10N	20N	300	3000	10N	100	100	50	200N	50	20N
124	GM033HC2	50N	70	150	70	30	20N	300	2000	10N	70	150	70	200N	50	20N
125	GM034HC2	50N	100	200	50	10N	20N	300	3000	10N	100	200	20L	200N	50	20N
126	GM035HC2	50N	100	100	70	30	20N	300	2000	10	70	100	70	200N	50	20N
127	GM036HC2	50N	100	50	70	50	20N	100L	1500	10N	50	50	50	200N	30	20N
128	GM037HC2	50N	50	50	50	10L	20N	100N	1500	10L	50L	30	20	200N	20	20N
129	GM038HC2	50N	70	150	50	30	20N	200	1500	10L	70	50	50	200N	30	20N
130	GM039HC2	50N	300	100	700	10N	20N	200	10000G	15	50L	100	70	200N	30	30
131	GM040HC2	50N	100	100	300	10L	20N	500	5000	15	150	70	20	200N	30	20N
132	GM041HC2	50N	70	70	70	10L	20N	200	1500	10L	70	70	20	200N	30	20N
133	CA001HC2	50N	100	100	100	10L	20N	500	2000	10L	50	50	50	200N	50	20N
134	CA002HC2	50N	200	100	100	10L	20N	500	1000	10	50	70	30	200N	30	20N
135	CA042HC2	50N	70	200	70	10L	20N	700	1500	10L	70	70	70	200N	50	20N
136	CA070HC2	50N	70	150	50	10L	20N	300	3000	10L	70	50	50	200N	70	20N
137	CA074HC2	50N	70	200	70	10L	20N	300	1500	10L	70	70	70	200N	50	20N
138	CA077HC2	50N	70	30	2000	10L	20N	100N	500	10N	50N	30	20N	200N	10L	20N
139	CA078HC2	50N	300	100	700	10L	20N	300	1500	10N	50	70	20	200N	50	20N
140	CP003HC2	50N	30	150	20	30	20N	200	2000	10N	50	30	70	200N	20	20
141	CP011HC2	50N	30	200	15	30	20N	700	3000	10N	50	30	30	200N	20	20
142	CP202HC2	50N	50	300	20	20	20N	500	5000	10N	50	30	30	200N	20	20N
143	CP204HC2	50N	30	100	200	20	20N	200	7000	15	50L	50	50	200N	15	20N
144	CP205HC2	50N	150	100	500	20	20N	200	10000	10	50L	100	70	200N	15	20N
145	CP206HC2	50N	50	70	150	20	20N	100	7000	10	50L	30	50	200N	10	20N
146	CP207HC2	50N	70	100	150	20	20N	150	7000	10L	50N	30	50	200N	10	20N
147	CP209HC2	50N	20	70	150	20	20N	150	5000	10L	50L	50	30	200N	10	20N
148	CP212HC2	50N	70	20L	70	50	20N	200	500	10N	50L	30	30	200N	15	20N
149	CP400HC2	50N	70	100	70	20	20N	200	5000	15	50N	50	100	200N	15	20N
150	CP401HC2	50N	100	100	70	20	20N	500	2000	10	70	50	50	200N	20	20N
151	CP402HC2	50N	50	200	100	20	20N	150	7000	10N	50L	70	100	200N	20	20N
152	CP403HC2	50N	70	200	200	20	20N	200	10000G	20	50L	70	100	200N	20	20N

Table 5.--continued

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
1	SW001HC2	500	200N	200	50N	100	500N	300	5.0N	20N
2	SW002HC2	500	200L	200	50N	150	500N	200	5.0N	20N
3	SW003HC2	700	200	200	50N	200	500N	500	5.0N	20N
4	SW004HC2	700	200L	150	50N	200	500N	300	5.0N	20N
5	SW005HC2	700	200L	200	50N	200	500N	200	5.0N	20N
6	SW006HC2	200L	200N	200	50N	100	500N	200	5.0N	20N
7	SW007HC2	200L	200L	150	50N	150	500N	700	5.0N	20N
8	SW008HC2	200L	200L	200	50N	150	500N	500	5.0N	20N
9	SW009HC2	300	300	300	50N	300	500N	700	5.0N	20N
10	SW010HC2	200	200N	300	50N	100	500N	500	5.0N	20N
11	SW011HC2	300	200L	300	50N	100	500N	300	5.0N	20N
12	SW012HC2	1000	200L	200	50N	100	500N	500	5.0N	20N
13	SW013HC2	700	200L	150	50N	100	500N	300	5.0N	20N
14	SW014HC2	1000	200L	150	50N	300	500N	300	5.0N	20N
15	SW015HC2	1000	200L	200	50N	300	500N	300	5.0N	20N
16	SW016HC2	200	200L	100	50N	200	500N	200	5.0N	20N
17	SW017HC2	700	200L	150	50N	150	500N	500	5.0N	20N
18	SW018HC2	1000	200L	200	50N	150	500N	300	5.0N	20N
19	SW019HC2	700	200L	150	50N	200	500N	500	5.0N	20N
20	SW020HC2	700	200L	100	50N	150	500N	300	5.0N	20N
21	SW021HC2	1000	200L	150	50N	200	500N	200	5.0N	20N
22	SW022HC2	500	200N	300	50N	300	500N	300	5.0N	20N
23	SW023HC2	1000	200L	300	50N	300	500N	300	5.0N	20N
24	SW024HC2	700	200L	300	50N	300	500N	300	5.0N	20N
25	SW025HC2	1000	200N	200	50N	150	500N	200	5.0N	20N
26	SW026HC2	1000	300	300	50N	300	500N	700	5.0N	20N
27	SW027HC2	1000	200L	300	50N	300	500N	700	5.0N	20N
28	SW028HC2	1000	200N	200	50N	300	500N	300	5.0N	20N
29	SW029HC2	700	200L	200	50N	300	500N	500	5.0N	20N
30	SW030HC2	200	200L	150	50N	700	500N	1000	5.0N	20N
31	SW031HC2	700	200L	150	50N	200	500N	700	5.0N	20N
32	SW032HC2	700	200L	150	50N	300	500N	500	5.0N	20N
33	SW033HC2	200L	200N	700	50N	100	700	700	5.0N	20N
34	SW034HC2	200L	200N	700	50N	100	500N	1000	5.0N	20N
35	SW035HC2	500	200L	500	50N	150	500N	1000	5.0N	20N
36	SW036HC2	200L	200N	300	50N	70	500N	500	5.0N	20N
37	SW037HC2	700	200L	150	50N	500	500N	700	5.0N	20N
38	SW038HC2	700	200L	300	50N	500	500N	700	5.0N	20N
39	SW039HC2	700	200N	100	50N	200	500N	300	5.0N	20N
40	SW040HC2	700	300	200	50N	700	500N	700	5.0N	20N

Table 5.--continued

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
41	SW041HC2	500	200L	70	50N	700	500N	700	5.0N	20N
42	SW042HC2	700	200L	150	50N	200	500N	300	5.0N	20N
43	SW043HC2	700	200L	100	50N	300	500N	300	5.0N	20N
44	SW044HC2	700	200N	150	50N	200	500N	300	5.0N	20N
45	SW045HC2	1000	200L	100	50N	70	500N	200	5.0N	20N
46	SW046HC2	1000	200N	150	50N	30	500N	200	5.0N	20N
47	SW047HC2	1000	200N	150	50N	30	500N	300	5.0N	20N
48	SW048HC2	1000	200N	100	50N	200	500N	500	5.0N	20N
49	SW049HC2	200	200N	200	50N	150	500N	300	5.0N	20N
50	SW050HC2	200L	200N	100	50N	30	500N	100	5.0N	20N
51	SW051HC2	200N	200L	300	50N	200	500N	700	5.0N	20N
52	SW052HC2	200N	200N	200	50N	100	500N	700	5.0N	20N
53	SW053HC2	200L	200N	150	50N	50	500N	200	5.0N	20N
54	SW054HC2	200L	200N	100	50N	30	500N	100	5.0N	20N
55	SW055HC2	200L	200N	100	50N	50	500N	200	5.0N	20N
56	PP001HC2	200	200L	200	50N	500	500N	700	5.0N	20N
57	PP002HC2	700	200L	150	50N	300	500N	300	5.0N	20N
58	PP003HC2	700	200N	150	50N	200	500N	300	5.0N	20N
59	PP004HC2	1000	200N	200	50N	100	500N	200	5.0N	20N
60	PP005HC2	300	200	150	50N	200	500N	700	5.0N	20N
61	PP006HC2	1000	200L	150	50N	200	500N	500	5.0N	20N
62	PP007HC2	500	200N	150	50N	100	500N	200	5.0N	20N
63	PP008HC2	500	200	200	50N	300	500N	500	5.0N	20N
64	PP009HC2	500	200L	150	50N	500	500N	700	5.0N	20N
65	PP010HC2	500	200L	150	50N	300	500N	500	5.0N	20N
66	PP011HC2	700	200N	200	50N	100	500N	300	5.0N	20N
67	PP012HC2	700	200L	150	50N	100	500N	300	5.0N	20N
68	PP013HC2	500	200N	150	50N	150	500N	200	5.0N	20N
69	PP014HC2	500	200N	200	50N	100	500N	500	5.0N	20N
70	PP015HC2	700	200L	150	50N	300	500N	300	5.0N	20N
71	PP016HC2	500	200	150	50N	300	500N	500	5.0N	20N
72	PP017HC2	1000	200L	150	50N	150	500N	300	5.0N	20N
73	PP018HC2	700	200N	150	50N	150	500N	200	5.0N	20N
74	PP019HC2	700	200N	150	50N	100	500N	150	5.0N	20N
75	PP020HC2	700	200N	200	50N	200	500N	300	5.0N	20N
76	PP021HC2	700	200L	200	50N	150	500N	300	5.0N	20N
77	PP022HC2	700	200L	150	50N	150	500N	300	5.0N	20N
78	PP023HC2	1000	200N	200	50N	150	500N	200	5.0N	20N
79	PP024HC2	1000	200L	150	50N	100	500N	200	5.0N	20N
80	PP025HC2	1000	200N	200	50N	150	500N	700	5.0N	20N

Table 5.--continued

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
81	PP026HC2	1500	200N	150	50N	100	500N	150	5.0N	20N
82	PP027HC2	1000	200L	150	50N	150	500N	200	5.0N	20N
83	PP028HC2	200	200N	200	50N	150	500N	300	5.0N	20N
84	PP029HC2	300	200	100	50N	300	500N	700	5.0N	20N
85	PP030HC2	300	200N	150	50N	200	500N	200	5.0N	20N
86	PP031HC2	300	200L	100	50N	300	500N	500	5.0N	20N
87	PP032HC2	200	200L	150	50N	500	500N	500	5.0N	20N
88	PP033HC2	200	200L	150	50N	300	500N	500	5.0N	20N
89	PP034HC2	500	200N	150	50N	200	500N	300	5.0N	20N
90	PP035HC2	300	200N	150	50N	150	500N	200	5.0N	20N
91	PP036HC2	500	200N	150	50N	300	500N	500	5.0N	20N
92	GM001HC2	200	200N	150	50N	70	500L	300	5.0N	20N
93	GM002HC2	200N	200N	100	50N	150	500L	2000G	5.0N	20N
94	GM003HC2	200	200N	300	50N	100	500N	1000	5.0N	20N
95	GM004HC2	300	200N	300	50N	50	500N	500	5.0N	20N
96	GM005HC2	200	200N	300	50N	30	500N	200	5.0N	20N
97	GM006HC2	200	200N	200	50N	30	500N	200	5.0N	20N
98	GM007HC2	200	200N	300	50N	30	500N	200	5.0N	20N
99	GM008HC2	200L	200N	300	50N	30	500N	300	5.0N	20N
100	GM009HC2	200	200N	300	50N	30	500N	200	5.0N	20N
101	GM010HC2	200	200N	300	50N	50	500N	150	5.0N	20N
102	GM011HC2	200	200N	200	50N	70	500N	200	5.0N	20N
103	GM012HC2	300	200N	300	50N	30	500N	200	5.0N	20N
104	GM013HC2	200N	200N	50	50N	150	500	1000	5.0N	20N
105	GM014HC2	200L	200N	70	50N	100	500	200	5.0N	20N
106	GM015HC2	200N	200N	50	50N	150	1000	1500	5.0N	20N
107	GM016HC2	300	200N	200	50N	70	500N	500	5.0N	20N
108	GM017HC2	200L	200N	150	50N	70	500L	300	5.0N	20N
109	GM018HC2	200	200N	300	50N	50	500N	500	5.0N	20N
110	GM019HC2	200	200N	200	50N	30	500N	150	5.0N	20N
111	GM020HC2	200	200N	200	50N	50	500N	300	5.0N	20N
112	GM021HC2	200	200N	300	50N	50	500N	300	5.0N	20N
113	GM022HC2	200	200N	300	50N	50	500N	500	5.0N	20N
114	GM023HC2	200	200N	300	50N	30	500N	200	5.0N	20N
115	GM024HC2	200	200N	200	50N	30	500N	200	5.0N	20N
116	GM025HC2	300	200N	500	50N	100	500N	700	5.0N	20N
117	GM026HC2	300	200N	300	50N	50	500N	300	5.0N	20N
118	GM027HC2	300	200N	200	50N	30	500N	150	5.0N	20N
119	GM028HC2	200N	200N	100	50N	100	500L	2000G	5.0N	20N
120	GM029HC2	300	200N	150	50N	30	500N	200	5.0N	20N

Table 5.--continued

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
121	GM030HC2	300	200N	300	50N	70	500N	300	5.0N	20N
122	GM031HC2	300	200L	200	50N	100	500L	700	5.0N	20N
123	GM032HC2	200	200N	200	50N	100	500L	1500	5.0N	20N
124	GM033HC2	200	200N	200	50N	70	500N	500	5.0N	20N
125	GM034HC2	200	200N	200	50N	100	500N	700	5.0N	20N
126	GM035HC2	200	200N	200	50N	100	500N	1000	5.0N	20N
127	GM036HC2	500	200N	300	50N	70	500N	200	5.0N	20N
128	GM037HC2	300	200N	150	50N	30	500N	200	5.0N	20N
129	GM038HC2	200	200N	200	50N	70	500N	500	5.0N	20N
130	GM039HC2	300	200N	200	50N	70	500N	700	5.0N	20N
131	GM040HC2	300	200N	300	50N	150	500N	500	5.0N	20N
132	GM041HC2	300	200N	200	50N	70	500N	300	5.0N	20N
133	CA001HC2	200	200N	700	70	100	500N	500	5.0N	20N
134	CA002HC2	300	200N	300	50N	150	500N	500	5.0N	20N
135	CA042HC2	200L	200L	300	50N	300	500N	1000	5.0N	20N
136	CA070HC2	200N	200N	200	50N	100	500	500	5.0N	20N
137	CA074HC2	200L	200L	300	50N	150	500N	700	5.0N	20N
138	CA077HC2	200N	200N	70	70	20N	500N	50	5.0N	20N
139	CA078HC2	300	200N	300	50L	100	500N	150	5.0N	20N
140	CP003HC2	200N	200N	150	50N	150	500N	200	5.0N	20N
141	CP011HC2	200N	200L	200	50N	300	500N	200	5.0N	20N
142	CP202HC2	200N	200N	200	50N	150	500L	500	5.0N	20N
143	CP204HC2	200N	200N	200	50N	100	500N	300	5.0N	20N
144	CP205HC2	200	200N	200	50N	100	500N	200	5.0N	20N
145	CP206HC2	200N	200N	200	50N	70	500N	200	5.0N	20N
146	CP207HC2	200L	200N	300	50N	70	500N	100	5.0N	20N
147	CP209HC2	200N	200N	300	50N	100	500N	500	5.0N	20N
148	CP212HC2	200N	200N	70	50N	100	500N	100	5.0N	20N
149	CP400HC2	200	200N	300	50N	50	500L	150	5.0N	20N
150	CP401HC2	200N	200N	150	50N	200	500N	200	5.0N	20N
151	CP402HC2	200	200N	500	50N	50	500N	100	5.0N	20N
152	CP403HC2	1500	200N	500	50N	100	500N	200	5.0N	20N

Table 6.--Basic statistics for 152 slightly magnetic heavy-mineral-concentrate samples from the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, AZ. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -S, semiquantitative emission spectrography]

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	CA PCT-S	.10	7.0	2.2	1.5	152	0	0	0	0
2	FE PCT-S	3.0	50	14	8.4	152	0	0	0	0
3	MG PCT-S	.15	7.0	1.5	1.1	152	0	0	0	0
4	NA PCT-S	.50	1.5	.75	.36	98	0	33	21	0
5	P PCT-S	.50	.50	.50	---	14	0	117	21	0
6	TI PCT-S	.10	2.0	1.4	.54	138	0	0	0	14
7	AG PPM-S	3.0	5.0	4.0	1.4	2	0	0	150	0
8	AS PPM-S	500	500	500	---	1	0	1	150	0
9	AU PPM-S	---	---	---	---	0	0	0	152	0
10	B PPM-S	20	300	42	48	60	0	86	6	0
11	BA PPM-S	100	7000	620	1100	150	0	0	0	2
12	BE PPM-S	2.0	7.0	2.7	1.4	20	0	73	59	0
13	BI PPM-S	---	---	---	---	0	0	1	151	0
14	CD PPM-S	---	---	---	---	0	0	0	152	0
15	CO PPM-S	20	500	99	65	151	0	1	0	0
16	CR PPM-S	30	500	110	92	146	0	3	3	0
17	CU PPM-S	10	2000	160	260	151	0	1	0	0
18	GA PPM-S	15	70	37	16	107	0	32	13	0
19	GE PPM-S	---	---	---	---	0	0	0	152	0
20	LA PPM-S	100	2000	520	330	129	0	8	15	0
21	MN PPM-S	500	10000	1900	1700	150	0	0	0	2
22	MO PPM-S	10	30	12	4.2	51	0	46	55	0
23	NB PPM-S	50	200	84	36	122	0	25	5	0
24	NI PPM-S	10	1000	100	150	149	0	3	0	0
25	PB PPM-S	20	1000	78	120	132	0	16	4	0
26	SB PPM-S	---	---	---	---	0	0	0	152	0
27	SC PPM-S	10	100	45	23	151	0	1	0	0
28	SN PPM-S	20	50	28	11	20	0	20	112	0
29	SR PPM-S	200	1500	530	320	120	0	16	16	0
30	TH PPM-S	200	300	240	52	8	0	50	94	0
31	V PPM-S	50	700	210	110	152	0	0	0	0
32	W PPM-S	70	70	70	---	2	0	1	149	0
33	Y PPM-S	30	700	160	130	151	0	0	1	0
34	ZN PPM-S	500	1000	640	220	5	0	8	139	0
35	ZR PPM-S	50	1500	410	260	150	0	0	0	2
36	PD PPM-S	---	---	---	---	0	0	0	152	0
37	PT PPM-S	---	---	---	---	0	0	0	152	0

Table 7.--Results of analyses of nonmagnetic heavy-mineral-concentrate samples from the Swansea (field # prefix SW), Planet Peak (PP and BM), Gibraltar Mountain (GM), Cactus Plain (CA and CP), and East Cactus Plain (CA and CP) Wilderness Study Areas, La Paz and Mohave Counties, AZ. [N, not detected; L, detected but below the limit of determination shown; G, greater than the value shown; .0B, not analyzed.]

	Sample #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
1	SW001HC3	341030	1135321	10	.70	.50	.50L	7.0	2.0G	1.0N	500N	20N	20L	7000	2.0N	20N
2	SW002HC3	341037	1135246	5.0	.50	.20	.50L	2.0	2.0G	1.0N	500N	20N	30	500	2.0N	20N
3	SW003HC3	341048	1135234	7.0	.50	.20	.50N	5.0	2.0G	1.0N	500N	20N	20L	5000	2.0N	20N
4	SW004HC3	341106	1135215	7.0	.70	2.0	.50N	2.0	2.0G	1.0N	500N	20N	20	500	2.0L	20N
5	SW005HC3	341105	1135134	7.0	.70	2.0	.50L	1.5	2.0G	1.0N	500N	20N	20L	10000G	2.0L	20N
6	SW006HC3	341144	1135045	10	.50	.15	.50N	.70	2.0G	1.0N	500	20N	20	10000G	2.0N	20N
7	SW007HC3	341142	1135045	1.5	.20	.05	.50N	1.5	1.0	1.0N	500N	20N	20L	10000G	2.0N	20N
8	SW008HC3	341147	1135026	7.0	.20	.10	.50N	1.5	1.0	1.0N	1000	20N	20L	10000G	2.0N	20N
9	SW009HC3	341222	1134929	10	.20	.15	.50L	1.0	1.0	1.0N	500N	20N	30	5000	2.0	20N
10	SW010HC3	341221	1134926	20	.20	.10	.50N	.50L	.70	2.0	500N	20N	20L	7000	2.0N	20N
11	SW011HC3	341236	1134945	7.0	.20	.10	.50N	1.0	.70	1.0N	1500	20N	20L	10000G	2.0N	20N
12	SW012HC3	341246	1134946	5.0	.20	2.0	.50N	2.0	1.0	1.0N	500N	20N	20L	10000G	2.0N	20L
13	SW013HC3	341256	1134941	5.0	.50	2.0	.50N	5.0	2.0	1.0N	500N	20N	20L	10000G	2.0N	20N
14	SW014HC3	341257	1135007	7.0	.50	.20	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
15	SW015HC3	341255	1135004	7.0	.50	.30	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
16	SW016HC3	341319	1134941	10	.30	.20	.50N	10	2.0G	1.0N	500N	20N	20L	2000	2.0N	20N
17	SW017HC3	341254	1134904	3.0	.15	.20	.50N	.50	.30	1.0N	500N	20N	20L	10000G	2.0N	20N
18	SW018HC3	341306	1134914	7.0	.50	1.0	.50N	10	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
19	SW019HC3	341338	1134938	7.0	.50	.50	.50L	15	2.0G	1.0N	500N	20N	20L	700	2.0N	20N
20	SW020HC3	341354	1134918	7.0	1.0	5.0	.50L	2.0	2.0	1.0N	500N	20N	20L	300	2.0L	20N
21	SW021HC3	341411	1134903	7.0	.70	2.0	.50L	5.0	2.0G	1.0N	500N	20N	20L	150	2.0N	20N
22	SW022HC3	341417	1134849	7.0	.50	1.5	.50N	3.0	2.0G	1.0N	500N	20N	20L	200	2.0N	20N
23	SW023HC3	341407	1134837	10	.70	1.5	.50N	2.0	2.0G	1.0N	500N	20N	20L	200	2.0N	20N
24	SW024HC3	341418	1134802	7.0	.50	.70	.50N	3.0	2.0G	1.0N	500N	20N	20L	10000	2.0N	20N
25	SW025HC3	341331	1135023	7.0	.70	.70	.50L	7.0	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
26	SW026HC3	341359	1135001	5.0	.50	1.5	.50L	3.0	2.0G	1.0N	500N	20N	20L	150	2.0N	20N
27	SW027HC3	341358	1134958	7.0	.50	2.0	.50N	3.0	2.0G	1.0N	500N	20N	20L	100	2.0L	20N
28	SW028HC3	341347	1135033	7.0	.50	.30	.50L	5.0	2.0G	1.0N	500N	20N	20L	200	2.0N	20N
29	SW029HC3	341353	1135036	7.0	.30	.15	.50N	10	2.0G	1.0N	500N	20N	20L	50	2.0N	20N
30	SW030HC3	341412	1135051	10	.50	.10	.50N	10	2.0G	1.0N	500N	20N	20L	200	2.0N	20N
31	SW031HC3	341427	1135032	7.0	1.0	.20	.50L	5.0	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
32	SW032HC3	341456	1135042	7.0	.70	.50	.50L	3.0	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
33	SW033HC3	341539	1135014	1.5	.30	.05L	.50N	.50L	.20	1.0N	500N	20N	20L	10000G	2.0N	20N
34	SW034HC3	341607	1134957	1.0	.30	.05L	.50N	.70	.30	1.0N	500N	20N	20L	10000G	2.0N	20N
35	SW035HC3	341508	1135054	3.0	.20	.50	.50N	1.5	1.5	1.0N	500N	20N	20L	10000G	2.0N	20N
36	SW036HC3	341520	1135134	1.0	1.0	.10	.50N	.50	1.5	1.0N	500N	20N	20	10000G	2.0	20N
37	SW037HC3	341453	1135123	7.0	.50	.15	.50L	7.0	2.0G	1.0N	500N	20N	20L	700	2.0N	20N
38	SW038HC3	341201	1135330	7.0	.30	1.0	.50L	7.0	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
39	SW039HC3	341208	1135326	7.0	.50	3.0	.50L	3.0	2.0G	1.0N	500N	20N	20L	700	2.0L	20N
40	SW040HC3	341210	1135325	7.0	.30	1.0	.50L	5.0	2.0G	1.0N	500N	20N	20L	1000	2.0N	20N

Table 7.--continued.

	Sample #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
41	SW041HC3	341253	1135352	7.0	.50	.20	.50L	5.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
42	SW042HC3	341344	1135417	5.0	.50	.50	.50N	1.5	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
43	SW043HC3	341404	1135357	7.0	1.5	2.0	.50L	5.0	2.0G	1.0N	500N	20N	20	7000	2.0L	20N
44	SW044HC3	341435	1135320	7.0	.50	.70	.50L	7.0	2.0G	1.0N	500N	20N	20L	200	2.0N	20N
45	SW045HC3	341444	1135246	7.0	.70	5.0	.50L	1.5	2.0G	1.0N	500N	20N	20L	200	2.0L	20N
46	SW046HC3	341442	1135256	5.0	.50	.20	.50	3.0	2.0G	1.0N	500N	20N	20L	700	2.0N	20N
47	SW047HC3	341500	1135236	5.0	1.0	.20	.50L	3.0	2.0G	1.0N	500N	20N	20	700	2.0L	20N
48	SW048HC3	341501	1135207	7.0	.30	1.5	.50N	7.0	2.0G	1.0N	500N	20N	20L	300	2.0N	20N
49	SW049HC3	341555	1135230	3.0	.30	.20	.50L	1.5	2.0G	1.0N	500N	20N	20	2000	2.0L	20N
50	SW050HC3	341613	1135221	5.0	1.0	.70	.50L	1.0	2.0G	70	500N	700	50	2000	2.0N	20N
51	SW051HC3	341645	1135214	2.0	.20	.15	.50L	1.5	2.0G	1.0N	500N	20N	50	3000	2.0L	20N
52	SW052HC3	341643	1135218	1.5	.15	.50	.50N	2.0	2.0G	1.0N	500N	20N	20L	7000	2.0	20N
53	SW053HC3	341637	1135208	3.0	.70	.30	.50L	1.0	2.0G	1.0N	500N	20N	100	500	2.0L	20N
54	SW054HC3	341629	1135208	3.0	.50	.30	.50	1.5	2.0G	1.0N	500N	20N	30	500	2.0L	20N
55	SW055HC3	341623	1135207	5.0	.70	.50	.50N	2.0	2.0G	1.0N	500N	20N	50	300	2.0L	20N
56	PP001HC3	341212	1135936	5.0	.30	.70	.50L	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
57	PP002HC3	341134	1135917	10	.50	2.0	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
58	PP003HC3	341048	1135843	7.0	.30	.30	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
59	PP004HC3	341101	1135903	5.0	.20	.07	.50N	2.0	2.0G	1.0N	500N	20N	20N	10000G	5.0	20N
60	PP005HC3	341008	1135721	5.0	.50	1.5	.50L	1.5	2.0G	1.0N	500N	20N	70	10000G	5.0	20N
61	PP006HC3	341012	1135737	7.0	.50	.20	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
62	PP007HC3	341241	1140007	7.0	.70	.30	.50L	7.0	2.0G	1.0N	500N	20N	20	10000G	5.0	20N
63	PP008HC3	341222	1140028	7.0	.50	.30	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
64	PP009HC3	341108	1140034	7.0	.30	.20	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
65	PP010HC3	341032	1140130	7.0	.50	.15	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
66	PP011HC3	341050	1140121	2.0	.50	.15	.50L	1.5	2.0G	1.0N	500N	20N	20	10000G	5.0	20N
67	PP012HC3	341107	1140111	2.0	.30	.10	.50L	2.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
68	PP013HC3	340810	1135748	7.0	.30	.15	.50N	3.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
69	PP014HC3	340846	1135649	7.0	.30	.10	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
70	PP015HC3	341031	1135803	7.0	.50	1.0	.50L	5.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
71	PP016HC3	341033	1135814	7.0	.30	.15	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
72	PP017HC3	340927	1135641	5.0	.50	.70	.50N	3.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
73	PP018HC3	340838	1135714	7.0	.30	.10	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	5.0	20N
74	PP019HC3	340836	1135729	7.0	.70	1.5	.50L	5.0	2.0G	1.0N	500N	20N	20	10000	5.0	20N
75	PP020HC3	340833	1135732	7.0	.20	.10	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
76	PP021HC3	340822	1135828	3.0	.30	1.5	.50L	2.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
77	PP022HC3	340823	1135843	5.0	.70	2.0	.50L	2.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
78	PP023HC3	340811	1135850	7.0	.50	.20	.50N	3.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
79	PP024HC3	340837	1135931	7.0	.30	.30	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
80	PP025HC3	340835	1135934	3.0	.30	.15	.50N	2.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N

Table 7.--continued.

	Sample #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
81	PP026HC3	340813	1135936	5.0	.50	.10	.50L	3.0	2.0G	1.0N	500N	20N	20L	7000	2.0N	20N
82	PP027HC3	340813	1140027	7.0	.50	.70	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
83	PP028HC3	340822	1140051	5.0	.70	2.0	.50	2.0	2.0G	1.0N	500N	20N	20L	10000G	2.0L	20N
84	PP029HC3	340827	1140115	7.0	.50	.15	.50N	5.0	2.0G	1.0N	500N	20N	20L	700	2.0N	20N
85	PP030HC3	340827	1140133	5.0	.30	.20	.50L	5.0	2.0G	1.0N	500N	20N	20	1500	2.0N	20N
86	PP031HC3	340913	1140152	7.0	.50	1.0	.50L	5.0	2.0G	1.0N	500N	20N	20L	10000	2.0N	20N
87	PP032HC3	340916	1140152	7.0	.30	.50	.50N	5.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
88	PP033HC3	340901	1140221	7.0	.20	.20	.50N	7.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
89	PP034HC3	340946	1140213	7.0	.30	.20	.50N	3.0	2.0G	1.0N	500N	20N	20L	10000G	2.0N	20N
90	PP035HC3	340943	1140209	5.0	.30	.30	.50N	3.0	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
91	PP036HC3	340933	1140158	7.0	.30	.20	.50L	7.0	2.0G	1.0N	500N	20N	20	5000	2.0N	20N
92	GM001HC3	340944	1140740	5.0	1.5	.70	.50L	1.5	2.0G	1.0N	500N	20N	70	3000	2.0N	20N
93	GM002HC3	340922	1140654	1.0	1.5	.30	.50L	.50	2.0G	1.0N	500N	20N	100	200	2.0	20N
94	GM003HC3	340924	1140648	1.5	2.0	.70	.70	.50	2.0G	1.0N	500N	20N	100	200	2.0L	20N
95	GM004HC3	340936	1140638	3.0	3.0	1.5	.50	2.0	2.0	1.0N	500N	20N	100	200	2.0N	20N
96	GM005HC3	340953	1140636	2.0	3.0	1.0	.50	1.0	2.0	1.0N	500N	20N	100	200	2.0L	20N
97	GM006HC3	341017	1140625	2.0	5.0	1.5	.70	.70	2.0	1.0N	500N	20N	50	300	2.0L	20N
98	GM007HC3	341021	1140623	1.5	2.0	1.0	.50	.50	2.0	1.0N	500N	20N	100	200	2.0L	20N
99	GM008HC3	341028	1140636	3.0	2.0	2.0	.50	2.0	1.5	1.0N	500N	20N	20	150	2.0N	20N
100	GM009HC3	341017	1140652	3.0	3.0	1.5	.50	2.0	1.5	1.0N	500N	20N	50	200	2.0N	20N
101	GM010HC3	341024	1140744	2.0	1.5	.50	.50L	1.5	2.0	1.0N	500N	20N	100	200	2.0N	20N
102	GM011HC3	341020	1140740	2.0	3.0	.50	.50L	2.0	2.0G	1.0N	500N	20N	100	150	2.0L	20N
103	GM012HC3	341034	1140748	3.0	3.0	.70	.70	2.0	2.0G	1.0N	500N	20N	100	150	2.0L	20N
104	GM013HC3	340845	1140745	1.0	1.0	.15	.70	.50L	1.5	1.0N	500N	20N	20	500	2.0L	20N
105	GM014HC3	340737	1140747	1.0	.70	.10	.50L	.50L	2.0	1.0N	500N	20N	20	300	2.0N	20N
106	GM015HC3	340721	1140716	.70	.70	.07	.70	.50L	1.0	1.0N	500N	20N	20L	2000	2.0L	20N
107	GM016HC3	340710	1140541	3.0	3.0	.70	.50L	1.5	2.0G	1.0N	500N	20N	50	700	2.0L	20N
108	GM017HC3	340757	1140456	1.5	1.0	.30	.50	.50L	2.0	1.0N	500N	20N	50	700	2.0N	20N
109	GM018HC3	340821	1140409	1.5	1.5	.20	.50L	.70	1.0	1.0N	500N	20N	50	10000G	2.0N	20N
110	GM019HC3	340818	1140414	1.5	1.5	.30	.50L	.50L	2.0G	1.0N	500N	20N	100	700	2.0N	20N
111	GM020HC3	340955	1140352	2.0	2.0	.30	.50L	.50L	1.0	1.0N	500N	20N	20	10000G	2.0L	20N
112	GM021HC3	341013	1140355	2.0	3.0	.70	.50	.50	2.0	1.0N	500N	20N	100	1000	2.0N	20N
113	GM022HC3	341133	1140403	2.0	3.0	.50	.50	.50	2.0	1.0N	500N	20N	100	700	2.0L	20N
114	GM023HC3	341334	1140835	2.0	1.5	.50	.50	2.0	1.0	1.0N	500N	20N	20L	10000G	2.0L	20N
115	GM024HC3	341341	1140836	2.0	2.0	.20	.50N	2.0	2.0	1.0N	500N	20N	100	10000G	2.0L	20N
116	GM025HC3	341452	1140813	1.0	1.0	.07	.50N	.50L	.30	1.0N	500N	20N	20L	10000G	2.0N	20N
117	GM026HC3	341444	1140617	1.5	3.0	.50	.50L	1.0	2.0G	1.0N	500N	20N	100	3000	2.0L	20N
118	GM027HC3	341337	1140556	10	3.0	1.0	1.0	5.0	.70	1.0N	500N	20N	20L	1000	2.0N	20N
119	GM028HC3	341305	1140525	1.0	1.5	.20	.70	.50	1.5	1.0L	500N	20N	50	700	2.0N	20N
120	GM029HC3	341459	1140658	5.0	5.0	.70	.70	3.0	2.0G	1.0N	500N	20N	30	5000	2.0L	20N

Table 7.--continued.

	Sample #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
121	GM030HC3	340932	1140743	.70	1.0	.10	.50N	.50	1.0	1.0N	500N	20N	70	10000G	2.0N	20N
122	GM031HC3	340928	1140819	2.0	.70	.20	.50N	1.5	2.0G	1.0N	500N	20N	150	1000	2.0	20N
123	GM032HC3	340911	1140836	1.5	.50	.20	.50L	1.0	2.0G	1.0N	500N	20N	100	500	2.0	20N
124	GM033HC3	341037	1140824	2.0	.50	.20	.50N	1.5	2.0G	1.0N	500N	20N	100	700	2.0	20N
125	GM034HC3	341038	1140819	1.5	1.0	.30	.50L	1.0	2.0G	1.0N	500N	20N	200	300	2.0L	20N
126	GM035HC3	340940	1140834	1.5	.50	.20	.50L	1.0	2.0G	1.0N	500N	20N	50	500	2.0	20N
127	GM036HC3	340929	1140917	2.0	.70	.30	.50L	1.0	2.0G	1.0N	500N	20N	70	700	2.0L	20N
128	GM037HC3	340932	1140934	2.0	.50	.30	.50L	1.5	2.0G	1.0N	500N	20N	70	700	2.0L	20N
129	GM038HC3	340940	1140950	1.5	.30	.20	.50L	1.5	2.0G	1.0N	500N	20N	70	700	2.0	20N
130	GM039HC3	341047	1141121	1.5	.30	.30	.50L	1.0	2.0G	1.0N	500N	20N	500	10000	2.0L	20N
131	GM040HC3	341129	1141033	2.0	.70	.30	.50L	1.5	2.0G	1.0N	500N	20N	100	10000G	2.0	20N
132	GM041HC3	341001	1141026	2.0	1.0	.30	.50L	1.5	2.0G	1.0N	500N	20N	100	700	2.0L	20N
133	CA001HC3	340505	1135443	1.5	.50	.20	.50N	.70	2.0G	1.0N	500N	20N	50	10000G	2.0N	20N
134	CA002HC3	340500	1135519	1.5	.30	.15	.50N	.50	2.0G	1.0N	500N	20N	30	3000	2.0L	20N
135	CA042HC3	340456	1141106	1.0	.50	.10	.50N	.50	2.0G	1.0N	500N	20N	100	5000	2.0	20N
136	CA070HC3	340605	1140650	1.0	.30	.10	.50L	.50L	2.0G	1.0N	500N	20N	20	3000	2.0	20N
137	CA074HC3	340657	1141040	1.5	.30	.15	.50N	1.0	2.0G	1.0N	500N	20N	70	7000	2.0	20N
138	CA077HC3	340923	1140220	3.0	1.0	.30	.70	1.0	.70	1.0N	500N	20N	20	10000	2.0N	20N
139	CA078HC3	340801	1140259	2.0	.30	.10	.50N	1.0	2.0G	1.0N	500N	20N	20	10000G	2.0L	20N
140	CP003HC3	340617	1140636	2.0	.50	.15	.0B	.0B	2.0G	1.0	500N	20L	100	5000	2.0L	20N
141	CP011HC3	340727	1141027	1.5	.50	.05L	.0B	.0B	2.0G	1.0N	500N	20N	70	10000G	2.0	20N
142	CP202HC3	340148	1140525	.10	.10L	.05L	.50N	.50	2.0G	1.0N	500N	20N	70	10000G	3.0	20N
143	CP204HC3	335752	1140435	.50	.15	.05L	.50N	.50N	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
144	CP205HC3	335714	1140502	.70	.10L	.05L	.50N	.50	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
145	CP206HC3	335655	1140308	1.0	.15	.07	.50N	.50	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
146	CP207HC3	335701	1140315	.30	.70	.07	.50N	.50L	2.0G	1.0N	500N	20N	30	10000G	2.0N	20N
147	CP209HC3	335720	1140343	1.0	.10	.05L	.50N	.50	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
148	CP212HC3	340748	1140228	2.0	.10	.15	.50N	10	2.0G	1.0N	500N	20N	30	10000	2.0N	20N
149	CP400HC3	335825	1140140	1.0	.20	.10	.50N	5.0N	2.0G	1.0N	500N	20N	30	10000G	2.0N	20N
150	CP401HC3	335804	1140210	1.5	.20	.50	.50N	2.0	2.0G	1.0N	500N	20N	30	10000G	2.0N	20N
151	CP402HC3	335640	1135938	.50	.10L	.05	.50N	.70	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N
152	CP403HC3	335605	1135922	.70	.10	.10	.50N	1.0	2.0G	1.0N	500N	20N	20	10000G	2.0N	20N

Table 7.--continued.

	Sample #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S
1	SW001HC3	50N	20N	20L	10L	10N	20N	300	500	10N	150	10L	70	200N	15
2	SW002HC3	50N	20N	20L	10L	10L	20N	200	200	10N	100	10L	20	200N	20
3	SW003HC3	50N	20N	20L	10N	10N	20N	100	200	10N	150	10L	20L	200N	10
4	SW004HC3	50N	20N	20L	10	10N	20N	100	300	10N	200	10L	20L	200N	20
5	SW005HC3	50N	20N	20N	10	10N	20N	100L	200	10N	150	10L	50	200N	10
6	SW006HC3	50N	20L	20N	30	10N	20N	300	150	10N	100	10L	7000	200N	15
7	SW007HC3	50N	20N	20N	10L	10N	20N	100	100	10N	50L	10L	1500	200N	10
8	SW008HC3	50N	20L	20N	500	10N	20N	200	150	100	100	10L	15000	200N	10
9	SW009HC3	50N	20N	20N	200	10N	20N	150	100	10N	100	10	5000	200	20
10	SW010HC3	50N	20N	20N	200	10N	20N	100	100	70	70	10L	3000	200N	10L
11	SW011HC3	50N	20N	50	7000	10N	20N	200	150	30	50	10L	50000G	200N	15
12	SW012HC3	50N	20N	20N	700	10N	20N	100L	200	10L	50	10L	3000	200N	10N
13	SW013HC3	50N	20N	20N	10L	10N	20N	100L	200	10N	70	10L	5000	500	15
14	SW014HC3	50N	20N	20N	10N	10N	20N	100	500	10N	150	10L	30	200N	20
15	SW015HC3	50N	20N	20L	10L	10N	20N	100	200	10N	100	10L	70	200N	15
16	SW016HC3	50N	20N	20L	10L	10N	20N	150	200	10N	70	10L	100	200N	20
17	SW017HC3	50N	20N	20L	150	10N	20N	100L	100	10N	50L	10L	1000	200N	10N
18	SW018HC3	50N	20N	20N	10L	10N	20N	100	200	10N	50	10L	20	200N	15
19	SW019HC3	50N	20N	20L	10L	10N	20N	100	200	10N	100	10L	20	200N	10
20	SW020HC3	50N	20L	20L	10L	10N	20N	100L	300	10N	150	10	20N	200N	10
21	SW021HC3	50N	20L	20N	20	10N	20N	100L	200	10N	100	10	20L	200N	10
22	SW022HC3	50N	20N	20N	10	10N	20N	150	300	10N	100	10N	20	200N	10
23	SW023HC3	50N	20L	20N	10L	10N	20N	100	200	10N	100	10N	20L	200N	10
24	SW024HC3	50N	20N	20L	10L	10N	20N	150	200	10N	100	10N	20	200N	10
25	SW025HC3	50N	20N	20N	10L	10N	20N	100	300	10N	200	10N	20	200N	10
26	SW026HC3	50N	20N	20N	10L	10N	20N	100	200	10N	150	10N	30	200N	20
27	SW027HC3	50N	20N	20N	10L	10N	20N	100L	300	10N	150	10N	20	200N	15
28	SW028HC3	50N	20N	20N	10N	10N	20N	150	500	10N	150	10N	30	200N	20
29	SW029HC3	50N	20N	20N	10N	10N	20N	100L	300	10N	100	10N	20	200N	15
30	SW030HC3	50N	20N	20N	10N	10N	20N	100L	300	10N	100	10N	20	200N	20
31	SW031HC3	50N	20N	20N	10L	10N	20N	150	500	10N	150	10N	30	200N	30
32	SW032HC3	50N	20N	20N	10N	10N	20N	100	300	10N	150	10N	20	200N	20
33	SW033HC3	50N	20N	20N	10	10N	20N	100N	500	10N	50N	10N	70	200N	10N
34	SW034HC3	50N	20N	20N	10N	10N	20N	100N	200	10N	50L	10N	500	200N	10N
35	SW035HC3	50N	20N	20L	10N	10N	20N	150	150	10N	50L	10N	50	200N	20
36	SW036HC3	50N	20L	30	10L	10N	20N	200	200	10N	70	10N	30	200N	15
37	SW037HC3	50N	20N	20N	10N	10N	20N	100	200	10N	150	10N	20	200N	15
38	SW038HC3	50N	20N	20L	10L	10N	20N	100	300	10N	100	10N	20	200N	15
39	SW039HC3	50N	20N	20N	10L	10N	20N	100L	300	10N	70	10N	20L	200N	10L
40	SW040HC3	50N	20N	20L	10L	10N	20N	100L	200	10N	50	10N	30	200N	20

Table 7.--continued.

Sample #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S
41 SW041HC3	50N	20N	20N	10L	10N	20N	100	500	10N	200	10L	70	200N	20
42 SW042HC3	50N	20N	20N	10L	10N	20N	150	300	10N	200	10L	20	200N	20
43 SW043HC3	50N	20N	30	10	10L	20N	200	300	10N	150	10	50	200N	30
44 SW044HC3	50N	20N	20L	10L	10N	20N	100	200	10N	50	10L	20	200N	20
45 SW045HC3	50N	20L	20L	10L	10L	20N	100	200	10N	100	10	70	200N	15
46 SW046HC3	50N	20N	20L	10L	10L	20N	200	150	10N	50L	10L	100	200N	30
47 SW047HC3	50N	20N	30	10L	10L	20N	500	200	10N	50	10	70	200N	50
48 SW048HC3	50N	20N	20L	10L	10N	20N	100	200	10N	50	10L	50	200N	30
49 SW049HC3	50N	20N	20	10L	10N	20N	300	150	10N	50	10	200	200N	50
50 SW050HC3	50N	20N	50	10L	10L	20N	300	200	10N	100	50	50	200N	30
51 SW051HC3	50N	20N	20L	10L	10N	20N	200	150	10N	50	10L	70	200N	70
52 SW052HC3	50N	20N	20N	10N	10N	20N	150	100	10N	50L	10N	300	200N	50
53 SW053HC3	50N	20N	50	10L	10L	20N	500	200	10N	70	10	70	200N	30
54 SW054HC3	50N	20N	20	10L	10L	20N	200	150	10N	50	10	150	200N	30
55 SW055HC3	50N	20N	30	10L	10N	20N	300	200	10N	70	15	50	200N	50
56 PP001HC3	50N	500	20N	10L	10L	20N	100	200	10N	100	10L	30	200N	15
57 PP002HC3	50N	20N	20N	20	10N	20N	100	200	10N	150	10L	300	200N	10L
58 PP003HC3	50N	20N	20L	10N	10N	20N	100	200	10N	150	10L	20	200N	10
59 PP004HC3	50N	20N	20N	10L	10N	20N	100L	100	10N	70	10L	200	200N	10N
60 PP005HC3	50N	20N	20N	15	10L	20N	150	300	10N	70	10L	70	200N	10
61 PP006HC3	50N	20N	20N	10L	10L	20N	200	300	10L	150	10L	20	200N	15
62 PP007HC3	50N	20N	20L	10L	10L	20N	200	200	10N	100	10L	70	200N	20
63 PP008HC3	50N	20N	20N	10	10L	20N	150	200	10N	150	10L	100	200N	10
64 PP009HC3	50N	20N	20L	10L	10N	20N	100L	200	10N	100	10L	200	200N	20
65 PP010HC3	50N	20N	20N	10	10L	20N	100	200	10N	200	10L	500	200N	10
66 PP011HC3	50N	20N	20L	10L	10N	20N	150	100	10N	70	10L	1000	200N	10L
67 PP012HC3	50N	20N	20N	10N	10N	20N	100	150	10N	150	10L	20L	200N	10N
68 PP013HC3	50N	20N	20	10L	10N	20N	200	150	10L	200	10L	20L	200N	10L
69 PP014HC3	50N	20N	20L	10N	10N	20N	200	150	10N	150	10L	20L	200N	20
70 PP015HC3	50N	20N	20L	10L	10L	20N	200	300	10L	200	10L	20L	200N	15
71 PP016HC3	50N	20N	20L	10N	10N	20N	100	200	10N	100	10L	20L	200N	15
72 PP017HC3	50N	20N	20L	10N	10N	20N	150	300	10L	300	10L	20N	200N	10
73 PP018HC3	50N	20N	20L	10N	10N	20N	150	300	10L	200	10L	20N	200N	10L
74 PP019HC3	50N	20N	20L	10N	10L	20N	150	200	10L	300	10L	20N	200N	10
75 PP020HC3	50N	20N	20N	10	10N	20N	150	200	10N	100	10L	20L	200N	15
76 PP021HC3	50N	20L	20N	10N	10N	20N	100	150	10N	100	10L	20N	200N	10L
77 PP022HC3	50N	20L	20N	10L	10L	20N	100	200	10N	150	10L	20	200N	10
78 PP023HC3	50N	20N	20N	10N	10N	20N	150	150	10L	200	10L	20L	200N	10
79 PP024HC3	50N	20N	20N	10L	10N	20N	100	150	10L	70	10L	20L	200N	15
80 PP025HC3	50N	20L	20N	10L	10N	20N	100	100	10L	150	10L	20N	200N	10N

Table 7.--continued.

Sample #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S
81 PP026HC3	50N	20N	20L	10	10N	20N	100	150	10N	150	10L	20N	200N	10N
82 PP027HC3	50N	20N	20	10L	10N	20N	150	200	10N	150	10L	20	200N	10
83 PP028HC3	50N	20L	20N	10L	10L	20N	100L	200	10N	150	10L	20L	200N	10
84 PP029HC3	50N	20N	20L	10N	10N	20N	150	150	10N	200	10L	20	200N	20
85 PP030HC3	50N	20N	20L	10N	10N	20N	100	150	10N	150	10L	20L	200N	20
86 PP031HC3	50N	20N	20N	10L	10L	20N	100	300	10N	150	10L	20L	200N	15
87 PP032HC3	50N	20N	20N	10N	10N	20N	100L	200	10N	100	10L	20	200N	10
88 PP033HC3	50N	20N	20L	10L	10N	20N	100	200	10N	100	10L	20	200N	20
89 PP034HC3	50N	20N	20L	10N	10N	20N	150	150	10N	150	10L	200	200N	10
90 PP035HC3	50N	20N	20N	10L	10N	20N	150	100	10N	100	10L	200	200N	20
91 PP036HC3	50N	20N	20N	10N	10N	20N	100	200	10N	150	10L	20L	200N	10
92 GM001HC3	50N	20N	70	10L	10N	20N	200	500	10L	100	30	20	200N	30
93 GM002HC3	50N	20L	100	10L	10N	20N	1000	200	10N	70	20	30	200N	30
94 GM003HC3	50N	20L	70	10L	10N	20N	700	500	10N	100	30	30	200N	30
95 GM004HC3	50N	20	150	15	10L	20N	500	700	50	70	70	50	200N	30
96 GM005HC3	50N	20	150	10	10L	20N	500	700	10N	70	50	20	200N	50
97 GM006HC3	50N	50	150	15	20	20N	300	700	30	70	70	20	200N	30
98 GM007HC3	50N	20	100	10L	10L	20N	200	500	10N	100	50	20	200N	30
99 GM008HC3	50N	70	300	10	30	20N	200	300	10N	50	150	20L	200N	50
100 GM009HC3	50N	30	100	10	10L	20N	300	1000	10N	50	100	20	200N	30
101 GM010HC3	50N	20L	50	10L	10N	20N	200	500	10N	70	20	20L	200N	20
102 GM011HC3	50N	20	100	10L	10L	20N	700	700	10N	100	20	50	200N	30
103 GM012HC3	50N	20	70	10	10L	20N	300	500	10N	70	30	20	200N	30
104 GM013HC3	50N	20L	70	10N	10L	20N	200	200	10N	50	10L	20L	200N	10
105 GM014HC3	50N	20N	70	10N	10L	20N	150	150	10N	100	10L	20	200N	10
106 GM015HC3	50N	20L	20N	10N	10L	20N	150	100	10N	50L	10L	20	200N	10L
107 GM016HC3	50L	30	100	200	20	20N	700	700	100	70	20	200	200N	30
108 GM017HC3	50N	20L	20	10L	10L	20N	300	200	10N	70	10L	20L	200N	15
109 GM018HC3	50N	20L	30	10L	10N	20N	300	500	10N	70	10L	30	200N	10L
110 GM019HC3	50N	20L	50	10L	10L	20N	300	200	10N	100	10	20L	200N	20
111 GM020HC3	50N	20L	70	10L	10N	20N	200	300	10N	70	10	50	200N	15
112 GM021HC3	50N	20	150	10L	10L	20N	500	700	10N	100	30	20	200N	30
113 GM022HC3	50N	20	70	10	10L	20N	200	700	10N	70	20	20	200N	50
114 GM023HC3	50N	20L	30	10L	10N	20N	300	500	10N	50L	15	20	200N	15
115 GM024HC3	50N	20N	70	10L	10N	20N	500	200	10N	50	10L	50	200N	50
116 GM025HC3	50N	20L	20L	10	10N	20N	100	1000	10N	50N	10L	70	200N	10L
117 GM026HC3	50N	20N	70	10L	10N	20N	500	700	10N	70	10	50	200N	50
118 GM027HC3	50N	30	70	15	10N	20N	300	500	10N	50	20	20N	200N	10
119 GM028HC3	50N	20L	20	10L	10N	20N	100	200	10N	70	10L	20	200N	10
120 GM029HC3	50N	30	50	20	10N	20N	700	2000	10N	100	30	70	200N	30

Table 7.--continued.

Sample #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S
121 GM030HC3	50N	20L	20L	50	10N	20N	100	150	10N	70	10L	20L	200N	10
122 GM031HC3	50N	20N	30	10N	10N	20N	300	200	10N	50	10L	20	200N	70
123 GM032HC3	50N	20N	20L	10N	10N	20N	300	150	10N	50	10L	20	200N	50
124 GM033HC3	50N	20N	50	10L	10N	20N	300	200	10N	70	10L	30	200N	50
125 GM034HC3	50N	20N	30	10L	10N	20N	500	200	10N	50	10L	30	200N	30
126 GM035HC3	50N	20N	50	10N	10N	20N	150	150	10N	50	10L	30	200N	50
127 GM036HC3	50N	20N	50	10L	10N	20N	200	200	10N	70	10L	30	200N	30
128 GM037HC3	50N	20N	50	20	10N	20N	200	200	10N	70	10L	30	200N	30
129 GM038HC3	50N	20N	50	10N	10N	20N	150	150	10N	50	10L	30	200N	50
130 GM039HC3	50N	20N	50	70	10N	20N	150	200	10N	70	10L	15000	200	30
131 GM040HC3	50N	20N	70	10L	10N	20N	200	200	10N	70	10L	50	200N	30
132 GM041HC3	50N	20N	30	10	10N	20N	300	150	10N	50	10L	30	200N	70
133 CA001HC3	50N	20N	30	10L	10N	20N	200	150	10N	70	10L	20	200N	20
134 CA002HC3	50N	20N	30	10L	10N	20N	200	150	10N	50	10L	20	200N	30
135 CA042HC3	50N	20N	30	10L	10N	20N	200	100	10N	50L	10L	30	200N	100
136 CA070HC3	50N	20N	30	10N	10N	20N	200	100	10N	50	10L	20	200N	50
137 CA074HC3	50N	20N	30	10L	10N	20N	300	150	10N	50	10L	50	200N	100
138 CA077HC3	50N	20	20N	1000	10N	20N	150	200	10N	50L	10L	1500	200N	10L
139 CA078HC3	50N	20N	20L	10	10N	20N	200	150	10N	100	10L	100	200N	50
140 CP003HC3	50N	20N	100	10L	.0B	.0B	700	700	10N	50	10N	30	200N	50
141 CP011HC3	50N	20N	150	10N	.0B	.0B	1000	200	10N	50	10N	70	200N	30
142 CP202HC3	50N	20N	20L	10N	10N	20N	100N	20	10N	50N	10N	30	200N	150
143 CP204HC3	50N	20N	20L	20	10N	20N	100N	500	10N	50N	10N	20N	200N	10N
144 CP205HC3	50N	20N	20L	20	10N	20N	100N	50	10N	50N	10N	20	200N	10N
145 CP206HC3	50N	20N	20L	10	10N	20N	100L	100	10N	50L	10N	20	200N	10N
146 CP207HC3	50N	20N	20L	10	10N	20N	100N	200	10N	50L	10N	20N	200N	10L
147 CP209HC3	50N	20N	20L	10	10N	20N	100N	100	10N	50N	10N	20N	200N	10N
148 CP212HC3	50N	20N	20L	10N	10N	20N	100N	100	10N	70	10N	20	200N	50
149 CP400HC3	50N	20N	20L	10N	10N	20N	100L	150	10N	50N	10N	20N	200N	10N
150 CP401HC3	50N	20L	20	10N	10N	20N	200	150	10N	50L	10N	70	200N	70
151 CP402HC3	50N	20N	20L	10N	10N	20N	200	100	10N	50N	10N	50	200N	10L
152 CP403HC3	50N	20N	20L	10N	10N	20N	100L	100	10N	50L	10L	20L	200N	10L

Table 7.--continued.

	Sample #	Sn ppm-S	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
1	SW001HC3	30	300	200N	100	50N	700	1000	2000G	5.0N	20N
2	SW002HC3	50	200N	200N	100	50N	700	500N	2000G	5.0N	20N
3	SW003HC3	50	200L	200N	100	50N	500	500N	2000G	5.0N	20N
4	SW004HC3	70	200L	200N	150	50N	700	500N	2000G	5.0N	20N
5	SW005HC3	50	300	200N	100	50N	500	500N	2000	5.0N	20N
6	SW006HC3	20	500	200L	1500	50N	500	500N	2000G	5.0N	20N
7	SW007HC3	20N	3000	200N	700	100	200	500N	2000G	5.0N	20N
8	SW008HC3	20L	700	300	1500	50N	300	500N	2000G	5.0N	20N
9	SW009HC3	500	200	300	1000	50N	300	500N	2000G	5.0N	20N
10	SW010HC3	20N	300	200N	1000	50N	150	500N	2000G	5.0N	20N
11	SW011HC3	20N	1000	200L	10000	50N	200	5000	2000G	5.0N	20N
12	SW012HC3	20L	2000	200N	1500	50N	200	1000	2000G	5.0N	20N
13	SW013HC3	20L	1000	200N	70	200	200	500N	2000G	5.0N	20N
14	SW014HC3	50	200	200N	150	50N	700	500N	2000G	5.0N	20N
15	SW015HC3	70	200	200N	150	50N	700	500N	2000G	5.0N	20N
16	SW016HC3	20L	200L	200N	100	50N	500	500N	2000G	5.0N	20N
17	SW017HC3	20N	3000	200N	200	50N	70	500N	2000	5.0N	20N
18	SW018HC3	20L	700	200N	100	50N	300	500N	2000G	5.0N	20N
19	SW019HC3	20L	200L	200N	70	50N	500	500N	2000G	5.0N	20N
20	SW020HC3	20L	200N	200N	70	50N	200	500N	2000G	5.0N	20N
21	SW021HC3	20L	200N	200N	100	50N	300	500N	2000G	5.0N	20N
22	SW022HC3	20	200N	200N	200	50N	300	500N	2000G	5.0N	20N
23	SW023HC3	30	200N	200N	150	50N	300	500N	2000G	5.0N	20N
24	SW024HC3	20	200L	200N	200	50N	300	500N	2000G	5.0N	20N
25	SW025HC3	30	200L	200N	150	50N	500	500N	2000	5.0N	20N
26	SW026HC3	30	200N	200L	100	50N	500	500N	2000G	5.0N	20N
27	SW027HC3	30	200L	200	100	50N	300	500N	2000G	5.0N	20N
28	SW028HC3	50	200L	200N	150	50N	500	500N	2000G	5.0N	20N
29	SW029HC3	30	200L	200N	100	50N	500	500N	2000G	5.0N	20N
30	SW030HC3	30	200L	200N	100	50N	500	500N	2000G	5.0N	20N
31	SW031HC3	70	200N	200N	100	50N	700	500N	2000G	5.0N	20N
32	SW032HC3	50	200N	200N	100	50N	700	500N	2000G	5.0N	20N
33	SW033HC3	20N	7000	200N	20	50N	70	500N	2000G	5.0N	20N
34	SW034HC3	20N	7000	200	50	50N	70	500N	2000G	5.0N	20N
35	SW035HC3	20N	2000	200L	50	50N	200	500N	2000G	5.0N	20N
36	SW036HC3	20L	2000	300	70	50N	200	500N	2000G	5.0N	20N
37	SW037HC3	50	200L	200N	100	50N	500	500N	2000G	5.0N	20N
38	SW038HC3	30	200L	200N	150	50N	700	500N	2000G	5.0N	20N
39	SW039HC3	20	200N	200N	100	50N	300	500N	2000G	5.0N	20N
40	SW040HC3	20L	200L	200N	100	50N	500	500N	2000G	5.0N	20N

Table 7.--continued.

	Sample #	Sn ppm-S	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
41	SW041HC3	70	500	200N	100	50N	700	500N	2000G	5.0N	20N
42	SW042HC3	70	200N	200L	100	50N	700	500N	2000G	5.0N	20N
43	SW043HC3	50	200	200N	100	50N	500	500N	2000G	5.0N	20N
44	SW044HC3	30	200L	200N	100	50N	500	500N	2000G	5.0N	20N
45	SW045HC3	20	200L	200N	70	50N	300	500N	2000G	5.0N	20N
46	SW046HC3	30	200L	200N	70	50N	300	500N	2000G	5.0N	20N
47	SW047HC3	20	200	200	150	50N	500	500N	2000G	5.0N	20N
48	SW048HC3	20	200L	200N	100	50N	500	500N	2000G	5.0N	20N
49	SW049HC3	150	200L	500	70	50N	500	500N	2000G	5.0N	20N
50	SW050HC3	50	1000	200L	100	50N	500	500N	2000G	5.0N	20N
51	SW051HC3	100	200L	700	100	50N	700	500N	2000G	5.0N	20N
52	SW052HC3	20	200L	300	100	50N	700	500N	2000G	5.0N	20N
53	SW053HC3	50	200L	300	100	50N	700	500N	2000G	5.0N	20N
54	SW054HC3	20	200L	200L	70	50N	500	500N	2000G	5.0N	20N
55	SW055HC3	20	200L	200L	100	50N	700	500N	2000G	5.0N	20N
56	PP001HC3	30	500	200N	70	50L	500	500N	2000G	5.0N	20N
57	PP002HC3	20	1000	200N	150	50N	500	500N	2000G	5.0N	20N
58	PP003HC3	20	500	200N	100	50N	300	500N	2000G	5.0N	20N
59	PP004HC3	20N	2000	200N	100	50N	200	500N	2000G	5.0N	20N
60	PP005HC3	30	2000	200N	50	50N	300	500N	2000G	5.0N	20N
61	PP006HC3	50	300	200N	150	50N	700	500N	2000G	5.0N	20N
62	PP007HC3	50	300	200N	70	50N	500	500N	2000G	5.0N	20N
63	PP008HC3	50	1000	200N	150	50N	500	500N	2000G	5.0N	20N
64	PP009HC3	30	700	200N	100	50N	700	500N	2000G	5.0N	20N
65	PP010HC3	70	3000	200N	150	50N	700	500N	2000G	5.0N	20N
66	PP011HC3	20L	3000	200N	200	50N	200	500N	2000G	5.0N	20N
67	PP012HC3	20L	3000	200N	100	50N	200	500N	2000G	5.0N	20N
68	PP013HC3	20	1500	200N	200	50N	500	500N	2000G	5.0N	20N
69	PP014HC3	20	2000	200N	150	50N	500	500N	2000G	5.0N	20N
70	PP015HC3	50	300	200N	150	50N	700	500N	2000G	5.0N	20N
71	PP016HC3	30	500	200N	100	50N	500	500N	2000G	5.0N	20N
72	PP017HC3	30	200	200N	150	50N	500	500N	2000G	5.0N	20N
73	PP018HC3	30	500	200N	150	50N	700	500N	2000G	5.0N	20N
74	PP019HC3	20	200	200N	150	100	700	500N	2000G	5.0N	20N
75	PP020HC3	30	1000	200N	200	50L	500	500N	2000G	5.0N	20N
76	PP021HC3	30	3000	200N	100	50	300	500N	2000G	5.0N	20N
77	PP022HC3	20	700	200N	100	50N	300	500N	2000G	5.0N	20N
78	PP023HC3	30	3000	200N	200	50N	500	500N	2000G	5.0N	20N
79	PP024HC3	20N	2000	200N	100	50N	300	500N	2000G	5.0N	20N
80	PP025HC3	20L	2000	200N	100	50N	300	500N	2000G	5.0N	20N

Table 7.--continued.

	Sample #	Sn ppm-S	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
81	PP026HC3	20	200	200N	150	50N	500	500N	2000G	5.0N	20N
82	PP027HC3	30	1000	200N	150	50N	500	500N	2000G	5.0N	20N
83	PP028HC3	20N	500	200N	70	50N	200	500N	2000G	5.0N	20N
84	PP029HC3	20	200N	200N	70	50N	500	500N	2000G	5.0N	20N
85	PP030HC3	20	200L	200N	70	50N	500	500N	2000G	5.0N	20N
86	PP031HC3	50	200L	200N	70	50N	500	500N	2000G	5.0N	20N
87	PP032HC3	30	1500	200N	70	50N	300	500N	2000G	5.0N	20N
88	PP033HC3	70	500	200N	70	50N	300	500N	2000G	5.0N	20N
89	PP034HC3	30	1000	200N	100	50N	500	500N	2000G	5.0N	20N
90	PP035HC3	20	2000	200	100	50N	300	500N	2000G	5.0N	20N
91	PP036HC3	20L	300	200N	70	50N	300	500N	2000G	5.0N	20N
92	GM001HC3	20L	200	200N	100	50N	700	500N	2000G	5.0N	20N
93	GM002HC3	30	200L	200	70	50N	500	500N	2000G	5.0N	20N
94	GM003HC3	20L	200	200L	100	50N	300	500N	2000G	5.0N	20N
95	GM004HC3	20L	300	200N	100	50N	200	500	2000G	5.0N	20N
96	GM005HC3	30	200	200N	100	50N	300	500N	2000G	5.0N	20N
97	GM006HC3	20N	500	200N	100	50N	200	500N	2000G	5.0N	20N
98	GM007HC3	20N	200	200N	100	50N	300	500N	2000G	5.0N	20N
99	GM008HC3	30	200	200N	150	50N	150	500N	2000G	5.0N	20N
100	GM009HC3	20N	300	200N	100	50N	300	500N	2000G	5.0N	20N
101	GM010HC3	20L	200L	200L	70	50N	200	500N	2000G	5.0N	20N
102	GM011HC3	20	200	200L	100	50N	700	500N	2000G	5.0N	20N
103	GM012HC3	20L	200	200L	100	50N	500	500N	2000G	5.0N	20N
104	GM013HC3	70	200L	200N	70	50N	200	500N	2000G	5.0N	20N
105	GM014HC3	20N	200L	200N	70	50N	150	500N	2000G	5.0N	20N
106	GM015HC3	200	5000	200L	50	50N	200	500N	2000G	5.0N	20N
107	GM016HC3	20	500	200L	70	50	300	2000	2000G	5.0N	20N
108	GM017HC3	20L	200	200N	70	50N	150	500N	2000G	5.0N	20N
109	GM018HC3	20L	2000	300	50	50N	150	500N	2000G	5.0N	20N
110	GM019HC3	20N	200	200N	70	50N	300	500N	2000G	5.0N	20N
111	GM020HC3	20N	2000	500	100	50N	200	500N	2000G	5.0N	20N
112	GM021HC3	300	200	200N	150	50N	300	500N	2000G	5.0N	20N
113	GM022HC3	150	200	200N	150	50N	300	500N	2000G	5.0N	20N
114	GM023HC3	70	500	200	70	50N	300	500N	2000G	5.0N	20N
115	GM024HC3	30	500	200	100	50N	700	500N	2000G	5.0N	20N
116	GM025HC3	20N	5000	500	30	50N	150	500N	2000G	5.0N	20N
117	GM026HC3	20N	200	200L	100	50N	500	500N	2000G	5.0N	20N
118	GM027HC3	20N	700	200N	70	50N	150	500N	2000G	5.0N	20N
119	GM028HC3	700	200	200N	50	50N	100	500N	2000G	5.0N	20N
120	GM029HC3	20N	500	300	200	50N	500	500N	2000G	5.0N	20N

Table 7.--continued.

	Sample #	Sn ppm-S	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	Pd ppm-S	Pt ppm-S
121	GM030HC3	20N	3000	200L	50	50N	150	500N	2000G	5.0N	20N
122	GM031HC3	70	200L	200L	150	50N	700	500N	2000G	5.0N	20N
123	GM032HC3	20L	200L	200L	100	50N	500	500N	2000G	5.0N	20N
124	GM033HC3	70	200L	200L	100	50N	500	500N	2000G	5.0N	20N
125	GM034HC3	20N	200L	200N	100	50N	500	500N	2000G	5.0N	20N
126	GM035HC3	20N	200L	200N	100	50N	500	500N	2000G	5.0N	20N
127	GM036HC3	20	300	200N	100	50N	500	500N	2000G	5.0N	20N
128	GM037HC3	20	200L	200N	100	50N	500	500N	2000G	5.0N	20N
129	GM038HC3	20N	200L	200N	100	50N	500	500N	2000G	5.0N	20N
130	GM039HC3	20L	200	200	100	50L	300	500N	2000G	5.0N	20N
131	GM040HC3	20L	1000	300	100	50N	500	500N	2000G	5.0N	20N
132	GM041HC3	30	200	200L	100	50N	500	500N	2000G	5.0N	20N
133	CA001HC3	20L	2000	200N	100	50N	500	500N	2000G	5.0N	20N
134	CA002HC3	20	200	200N	100	50N	500	500N	2000G	5.0N	20N
135	CA042HC3	50	200	200L	100	50N	700	500N	2000G	5.0N	20N
136	CA070HC3	20	200	200	70	50N	500	500N	2000G	5.0N	20N
137	CA074HC3	30	700	200L	100	50N	700	500N	2000G	5.0N	20N
138	CA077HC3	20N	500	200N	30	50N	70	500N	2000G	5.0N	20N
139	CA078HC3	20L	700	200L	100	50N	500	500N	2000G	5.0N	20N
140	CP003HC3	70	500	200	150	50N	500	500N	2000G	.0B	.0B
141	CP011HC3	20	700	500	150	50N	500	500N	2000G	.0B	.0B
142	CP202HC3	70	700	200N	20	50N	700	500N	2000G	.0B	.0B
143	CP204HC3	20N	10000	200N	20N	50N	20	500N	2000	.0B	.0B
144	CP205HC3	20N	5000	200N	20N	50N	70	500N	2000	.0B	.0B
145	CP206HC3	20N	7000	200N	20	150	70	500N	2000G	.0B	.0B
146	CP207HC3	20N	10000	200N	20	50N	20	500N	1000	.0B	.0B
147	CP209HC3	20N	7000	200N	20N	50N	30	500N	2000G	.0B	.0B
148	CP212HC3	20N	200N	200N	30	50N	300	500N	2000G	.0B	.0B
149	CP400HC3	20N	10000	200N	20	50N	200	500N	500	.0B	.0B
150	CP401HC3	20L	500	200N	100	50N	500	500N	2000G	.0B	.0B
151	CP402HC3	20N	3000	200N	20	50N	70	500N	2000G	.0B	.0B
152	CP403HC3	20N	2000	200L	30	50N	150	500N	2000G	.0B	.0B

Table 8.--Basic statistics for 152 nonmagnetic heavy-mineral-concentrate samples from the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, AZ. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -S, semiquantitative emission spectrography]

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	CA PCT-S	.10	20	4.4	3.1	152	0	0	0	0
2	FE PCT-S	.10	5.0	.82	.88	149	0	3	0	0
3	MG PCT-S	.05	5.0	.62	.80	145	0	7	0	0
4	NA PCT-S	.50	1.0	.60	.13	21	2	58	71	0
5	P PCT-S	.50	15	3.2	2.7	137	2	11	2	0
6	TI PCT-S	.20	2.0	1.3	.61	35	0	0	0	117
7	AG PPM-S	1.0	70	24	40	3	0	1	148	0
8	AS PPM-S	500	1500	1000	500	3	0	0	149	0
9	AU PPM-S	700	700	700	---	1	0	1	150	0
10	B PPM-S	20	500	62	63	78	0	73	1	0
11	BA PPM-S	50	10000	2100	2900	86	0	0	0	66
12	BE PPM-S	2.0	5.0	3.6	1.5	31	0	37	84	0
13	BI PPM-S	---	---	---	---	0	0	1	151	0
14	CD PPM-S	---	---	---	---	0	0	1	151	0
15	CO PPM-S	20	500	60	120	15	0	25	112	0
16	CR PPM-S	20	300	64	49	56	0	47	49	0
17	CU PPM-S	10	7000	260	1100	41	0	72	39	0
18	GA PPM-S	20	30	23	5.8	3	2	32	115	0
19	GE PPM-S	---	---	---	---	0	2	0	150	0
20	LA PPM-S	100	1000	230	170	126	0	18	8	0
21	MN PPM-S	20	2000	270	230	152	0	0	0	0
22	MO PPM-S	30	100	63	32	6	0	11	135	0
23	NB PPM-S	50	300	100	51	130	0	14	8	0
24	NI PPM-S	10	150	30	31	32	0	88	32	0
25	PB PPM-S	20	15000	560	2200	115	0	24	12	1
26	SB PPM-S	200	500	300	170	3	0	0	149	0
27	SC PPM-S	10	150	27	21	125	0	14	13	0
28	SN PPM-S	20	700	57	92	91	0	27	34	0
29	SR PPM-S	200	10000	1500	2200	104	0	36	12	0
30	TH PPM-S	200	700	310	140	23	0	24	105	0
31	V PPM-S	20	10000	210	840	149	0	0	3	0
32	W PPM-S	50	200	110	58	6	0	3	143	0
33	Y PPM-S	20	700	410	200	152	0	0	0	0
34	ZN PPM-S	500	5000	190	1800	5	0	0	147	0
35	ZR PPM-S	500	2000	1600	630	7	0	0	0	145
36	PD PPM-S	---	---	---	---	0	13	0	139	0
37	PT PPM-S	---	---	---	---	0	13	0	139	0

Table 9.--Results of analyses of rock samples from the Swansea (field # prefix SW), Planet Peak (PP and BM), Gibraltar Mountain (GM), Cactus Plain (CA and CP), and East Cactus Plain (CA and CP) Wilderness Study Areas, La Paz and Mohave Counties, AZ. [N, not detected; L, detected but below the limit of determination shown; G, greater than the value shown; .0B, not analyzed.]

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
1	SW009R	341222	1134929	.05	.70	.05	.70	.20L	.10	.50L	200N	10N	10	1000	1.0L	10N
2	SW010R	341221	1134926	.05	.50	.03	.70	.20L	.03	1.0	200N	10N	10	500	1.0L	10N
3	SW017R	341254	1134904	1.0	15	.15	.20L	.20N	.07	.50N	200N	10N	10L	70	1.0	10N
4	SW027R	341358	1134958	.70	1.0	.15	2.0	.20L	.10	.50N	200N	10N	10	50	1.0L	10N
5	SW034R	341607	1134957	.20	.50	.15	1.5	.20L	.10	.70	200N	10N	10	1000	1.0L	10N
6	SW048R	341501	1135207	2.0	20	1.0	.20L	.20N	.03	2.0	200N	10N	10L	300	7.0	10N
7	SW056R	341002	1135028	3.0	20G	.70	.20N	.20N	.005	.50N	200N	10N	10N	70	1.0N	10N
8	BM003R1	341358	1140043	.30	20	.05	.20N	.20L	.005	.50	200N	10N	10L	20	1.0N	10N
9	BM003R2	341358	1140043	.05	10	.30	.20L	.20L	.05	.50L	200N	10N	10L	200	1.0N	10N
10	PP005R	341008	1135721	.05L	20G	.05	.20N	.20N	.002L	.50N	200N	10N	10N	30	1.0N	10N
11	PP006R1	341012	1135737	.20	20	.03	.20N	.20N	.05	.50N	200N	10N	10L	500	1.0L	10N
12	PP028R1	340822	1140051	.70	20	.70	.20N	.20N	.015	.50N	200N	10N	10	30	1.5	10N
13	GM009R	341017	1140652	20	.10	1.5	.20L	.20N	.003	.50N	200N	10N	10N	20N	1.0N	10N
14	GM030R	340932	1140743	.20	15	.20	.70	.20L	.15	.50	200N	10N	15	1500	1.0L	10N
15	GM032R	340911	1140836	1.5	1.5	.50	3.0	.20L	.10	.50N	200N	10N	10	150	3.0	10N
16	GM039R	341047	1141121	.20	.05	.02	.20N	.20L	.002L	.50N	200N	10N	50	50	1.0N	10N
17	CA001R2	340505	1135443	2.0	.70	.05	.20L	.20N	.02	.50N	200N	10N	10N	5000G	1.0N	10N
18	CA001R3	340505	1135443	1.0	.30	.07	2.0	.20N	.01	.50N	200N	10N	10L	500	1.0L	10N
19	CA002R1	340500	1135519	3.0	.30	.05	.20L	.20L	.015	.50N	200N	10N	10	5000G	1.0N	10N
20	CA002R3	340500	1135519	2.0	.50	.10	1.5	.20L	.03	.50N	200N	10N	10	700	1.0N	10N
21	CA004R	340552	1135541	.20	1.0	.02	.20L	.20L	.015	5.0	200N	10N	15	150	1.0N	10N
22	CA019R1	340506	1135615	5.0	1.5	1.0	1.0	.20N	.10	.50N	200N	10N	10N	300	1.0N	10N
23	CA019R2	340506	1135615	.70	2.0	.50	1.5	.20L	.30	.50N	200N	10N	10	700	1.0	10N
24	CA024R1	340126	1140505	.50	1.0	.05	.20L	.20L	.10	.50N	200N	10N	10	500	1.0L	10N
25	CA024R2	340126	1140505	2.0	5.0	.30	.30	.20N	.20	.50N	200N	10N	10L	500	1.0	10N
26	CA024R4	340126	1140505	10	.50	.20	.20	.20N	.015	.50N	200N	10N	10N	300	1.0N	10N
27	CA024R5	340126	1140505	3.0	3.0	.30	.50	.20N	.15	.50N	200N	10N	20	700	1.0L	10N
28	CA041R1	335954	1140102	3.0	.50	.05	.20	.20N	.05	.50L	200N	10N	10L	5000G	1.0N	10N
29	CA042R	340456	1141106	.30	15	.10	.20L	.20N	.02	.50N	200N	10N	30	300	7.0	10N
30	CA048R1	340213	1140655	3.0	5.0	1.0	1.5	.20L	.70	.50N	200N	10N	10L	500	1.0N	10N
31	CA048R2	340213	1140655	.50	3.0	.30	3.0	.20L	.30	.50N	200N	10N	10	700	1.0L	10N
32	CA055R	335935	1140453	2.0	3.0	.70	.50	.20L	.20	.50N	200N	10N	30	300	1.0L	10N
33	CA069R1	340604	1140506	7.0	.50	.70	1.0	.20N	.02	.50L	200N	10N	10	300	1.0	10N
34	CA069R2	340604	1140506	3.0	1.0	1.0	2.0	.20N	.15	.50N	200N	10N	15	300	1.0	10N
35	CA070R	340605	1140650	2.0	1.0	.10	3.0	.20N	.07	.50N	200N	10N	10L	700	1.0L	10N
36	CA074R1	340657	1141040	1.5	3.0	1.5	2.0	.20L	.50	.50N	200N	10N	10L	2000	1.0N	10N
37	CA074R2	340657	1141040	5.0	.07	.15	.20L	.20N	.005	.50N	200N	10N	10N	100	1.0N	10N
38	CA077R1	340923	1140220	.15	20	.50	.20N	.20N	.05	.50	200N	10N	10L	20	1.0N	10N
39	CA077R2	340923	1140220	10	.30	.20	.20	.20N	.005	.50N	200N	10N	10N	100	1.0N	10N
40	CA077R3	340923	1140220	3.0	.50	.30	.50	.20L	.10	.50N	200N	10N	10L	150	1.0L	10N

Table 9.--continued.

	Field #	Latitude	Longitude	Ca %-S	Fe %-S	Mg %-S	Na %-S	P %-S	Ti %-S	Ag ppm-S	As ppm-S	Au ppm-S	B ppm-S	Ba ppm-S	Be ppm-S	Bi ppm-S
41	CA078R1	340801	1140259	.10	10	.20	1.0	.20L	.07	.50	200N	10N	10L	1000	1.0N	10N
42	CA078R2	340801	1140259	.15	1.0	.03	.20N	.20L	.015	.50	200N	10N	10	150	1.0N	10N
43	CA079R	340753	1140213	.50	15	1.0	.20L	.20N	.005	.50N	200N	10N	20	20L	1.0	10N
44	CA080R2	335819	1140336	7.0	.50	.02L	.20L	.20L	.002N	.50N	200N	10N	10N	1000	1.0N	10N
45	CA080R4	335819	1140336	.05	20	.03	.20L	.20L	.03	.50L	200N	10N	20	50	1.5	10N
46	CP003R	340617	1140636	5.0	3.0	.20	.0B	.0B	.10	.50N	700N	15N	10L	1500	1.5	10N
47	CP009R1	340440	1141132	15	1.5	.10	.0B	.0B	.03	1.0	700N	15N	10	300	1.0L	10
48	CP009R2	340440	1141132	10	2.0	.05	.0B	.0B	.10	3.0	200N	10N	50	300	1.0L	50
49	CP014R	340056	1140607	7.0	5.0	1.5	.0B	.0B	.70	.50N	700N	15N	10L	3000	1.5	10N
50	CP021R	335917	1140108	10	.70	1.5	.0B	.0B	.02	.70	700N	15N	20	5000G	1.0N	10N
51	CP022R	335938	1140101	15	1.0	.10	.0B	.0B	.003	1.0	700N	15N	10L	150	1.0N	10N
52	CP201R	340155	1140519	20G	3.0	.70	.0B	.0B	.70	.50N	200N	10N	10	300	1.0L	10N
53	CP203R	335758	1140437	.20	20	1.5	.0B	.0B	.10	.50	200N	10N	20	200	1.0	10N
54	CP207R	335701	1140315	5.0	7.0	7.0	.0B	.0B	.70	.50N	200N	10N	10	300	1.0L	10N
55	CP208R1	335729	1140407	.05L	1.0	.30	.0B	.0B	.10	.50N	300	10N	30	50	1.0N	10N
56	CP208R2	335729	1140407	.15	15	.70	.0B	.0B	.20	.50N	200N	10N	100	5000G	1.0L	10N
57	CP210R	335933	1140455	10	10	.20	.0B	.0B	.05	.50N	200N	10N	50	700	1.5	10N
58	CP211R1	340752	1140214	1.5	20G	.20	.0B	.0B	.003	.50N	200N	10N	100	500	2.0	10N
59	CP211R2	340752	1140214	.70	20G	2.0	.0B	.0B	.01	.50N	200N	10N	100	1500	1.0N	10N
60	CP213R	340801	1140259	.20	10	.15	.0B	.0B	.10	.50	200N	10N	30	1000	1.0L	10N
61	CP301R	340456	1141111	2.0	20G	.20	.0B	.0B	.05	.50N	200N	10N	20	150	5.0	10N
62	CP302R	340456	1141111	2.0	20G	.50	.0B	.0B	.05	.50N	200N	10N	50	200	7.0	10N
63	CP317R	340555	1135534	.05	1.5	.50	1.0	.20L	.03	1.0	200N	10N	20	300	1.0L	10N
64	CP318R	340559	1135538	.05	1.0	.10	1.0	.20L	.05	2.0	200N	10N	10	300	1.0N	10N
65	CP404R1	335611	1135906	3.0	3.0	2.0	.0B	.0B	.30	.50N	200N	10N	15	5000G	1.5	10N
66	CP404R2	335611	1135906	7.0	5.0	3.0	.0B	.0B	.30	.50N	300	10N	20	700	1.0	10N
67	CP405R	335725	1135857	10	1.0	.20	.0B	.0B	.07	.50N	200N	10N	200	200	2.0	10N

Table 9.--continued.

	Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
1	SW009R	20N	10N	10N	2000	15	10N	100	20	15	20L	5.0N	20	100N	5.0L	10N
2	SW010R	20N	10N	10N	1500	10	10N	50N	15	5.0	20N	5.0L	50	100N	5.0N	10N
3	SW017R	20N	20	15	1500	30	10N	50N	200	10	20L	7.0	70	100N	5.0L	10N
4	SW027R	20N	10L	10N	10	20	10N	50N	70	5.0N	20N	5.0L	10N	100N	5.0N	10N
5	SW034R	20N	10L	10N	5.0L	5.0N	10N	50N	70	5.0N	20N	5.0L	30	100N	5.0L	10N
6	SW048R	20N	300	10N	15000	5.0N	10N	50N	1000	5.0L	20N	15	10N	100N	5.0L	10N
7	SW056R	20N	15	10N	500	5.0L	10N	50N	300	5.0L	20N	5.0L	10N	100N	5.0L	10N
8	BM003R1	20N	50	10N	1500	5.0N	10N	50N	50	5.0	20N	5.0L	10N	100N	5.0N	10N
9	BM003R2	20N	30	10N	700	5.0L	10N	50N	100	5.0N	20N	5.0L	10L	100N	5.0L	10N
10	PP005R	20N	10N	10N	500	5.0N	10N	50N	10	5.0L	20N	5.0L	10N	100N	5.0L	10N
11	PP006R1	20N	10N	10L	150	5.0N	10N	50N	70	5.0	20N	5.0L	10N	100N	5.0L	10N
12	PP028R1	20N	150	10N	7000	5.0N	10N	50N	200	7.0	20N	30	10N	100N	5.0L	10N
13	GM009R	20N	10N	10N	20	5.0N	10N	50N	10L	5.0N	20N	5.0L	10N	100N	5.0N	10N
14	GM030R	20N	70	15	10000	15	10N	50N	200	5.0L	20N	15	50	100N	7.0	10N
15	GM032R	20N	10L	10N	30	70	10N	70	200	5.0N	50	5.0L	20	100N	5.0N	20
16	GM039R	20N	10N	10N	7.0	10	10N	50N	50	5.0N	20N	5.0N	10N	100N	5.0N	10N
17	CA001R2	20N	10N	10N	7000	10	10N	100	20	5.0N	20N	5.0L	200	100N	5.0L	10N
18	CA001R3	20N	10N	10N	5.0	20	10N	50N	20	5.0N	20N	5.0L	10L	100N	5.0N	10N
19	CA002R1	20N	10N	10N	50	15	10N	50N	300	5.0N	20N	5.0L	10N	100N	5.0N	10N
20	CA002R3	20N	10N	10N	7.0	20	10N	50L	70	5.0	20N	5.0L	10N	100N	5.0N	10N
21	CA004R	20N	10N	10N	10000	10	10N	50N	10	5.0N	20N	5.0N	30	100N	5.0N	10N
22	CA019R1	20N	15	10N	50	30	10N	50L	500	5.0	20N	15	20	100N	5.0	10N
23	CA019R2	20N	20	10N	15	30	10N	150	100	5.0N	20L	15	10	100N	10	10N
24	CA024R1	20N	10L	30	20	5.0L	10N	50N	200	5.0N	20N	10	10L	100N	5.0	10N
25	CA024R2	20N	30	70	15	20	10N	50N	700	5.0N	20N	50	10L	100N	10	10N
26	CA024R4	20N	10L	10N	15	7.0	10N	50L	100	5.0N	20N	5.0L	10L	100N	5.0N	10N
27	CA024R5	20N	30	70	300	30	10N	50N	1000	5.0N	20N	100	15	100N	15	10N
28	CA041R1	20N	10N	15	500	7.0	10N	50N	200	5.0N	20N	5.0	20	150	5.0	10N
29	CA042R	20N	500	10N	30	5.0N	10N	50N	3000	20	20N	200	15	100N	5.0N	10N
30	CA048R1	20N	30	10N	20	30	10N	50L	300	5.0N	20L	15	10L	100N	10	10N
31	CA048R2	20N	10N	10N	5.0L	50	10N	150	300	5.0	30	5.0N	20	100N	7.0	10N
32	CA055R	20N	20	20	10	30	10N	100	700	5.0L	20N	50	15	100N	10	10N
33	CA069R1	20N	10N	10N	5.0	30	10N	50L	70	5.0N	20L	5.0L	15	100N	5.0N	10L
34	CA069R2	20N	10	10L	10	30	10N	50L	150	5.0N	20L	10	15	100N	5.0	10L
35	CA070R	20N	10N	10N	5.0L	50	10N	150	200	5.0N	20L	5.0N	15	100N	5.0L	10L
36	CA074R1	20N	50	20	30	30	10N	100	200	5.0N	20	50	15	100N	15	10N
37	CA074R2	20N	10N	10N	5.0L	5.0N	10N	50N	20	5.0N	20N	5.0L	10N	100N	5.0N	10N
38	CA077R1	20N	50	10L	7000	5.0N	10N	50N	70	5.0L	20N	15	10L	100N	5.0N	10N
39	CA077R2	20N	10N	10N	20	5.0N	10N	50N	500	5.0N	20N	5.0L	10N	100N	5.0N	10N
40	CA077R3	20N	10N	10	20	5.0L	10N	50L	300	5.0N	20N	10	10L	100N	5.0N	10N

Table 9.--continued.

Field #	Cd ppm-S	Co ppm-S	Cr ppm-S	Cu ppm-S	Ga ppm-S	Ge ppm-S	La ppm-S	Mn ppm-S	Mo ppm-S	Nb ppm-S	Ni ppm-S	Pb ppm-S	Sb ppm-S	Sc ppm-S	Sn ppm-S
41 CA078R1	20N	1000	10N	10000	5.0N	10N	50L	500	5.0N	20N	30	10N	100N	5.0L	10N
42 CA078R2	20N	10L	10L	1500	5.0L	10N	50N	15	5.0N	20N	5.0N	10N	100N	5.0N	10N
43 CA079R	20N	20	10N	15000	5.0N	10N	50N	100	5.0L	20N	5.0L	10N	100N	5.0L	10N
44 CA080R2	20N	10N	10N	50	5.0N	10N	150	2000	5.0N	20N	5.0N	10N	100N	5.0N	10N
45 CA080R4	20N	10N	10N	7000	5.0N	10N	50	20	15	20N	5.0L	10N	100N	5.0L	10N
46 CP003R	30N	5.0L	10L	5.0L	.0B	.0B	150	300	5.0L	30	5.0L	10L	100N	10	10N
47 CP009R1	30N	5.0	15	15	.0B	.0B	30	1000	5.0L	20N	5.0	30	100N	5.0L	10N
48 CP009R2	20N	7.0	20	50	.0B	.0B	50L	2000	5.0N	20N	5.0	30	100N	5.0L	10N
49 CP014R	30N	10	10L	7.0	.0B	.0B	70	700	5.0L	30	5.0L	10L	100N	15	10N
50 CP021R	30N	5.0L	10L	100	.0B	.0B	30N	700	5.0N	20L	5.0L	30	100N	5.0	10N
51 CP022R	30N	5.0L	10L	50	.0B	.0B	30N	700	5.0L	20N	5.0L	20	100N	5.0N	10N
52 CP201R	20N	50	300	200	.0B	.0B	50N	700	5.0N	20N	150	30	100N	15	10N
53 CP203R	20N	10	10	7000	.0B	.0B	1000	500	20	20N	20	10N	100N	10	10N
54 CP207R	20N	50	300	200	.0B	.0B	50N	700	5.0N	20N	150	20	100N	50	10N
55 CP208R1	20N	10N	10	20	.0B	.0B	70	100	5.0N	20N	5.0L	30	100N	10	10N
56 CP208R2	20N	70	500	200	.0B	.0B	50N	1500	20	20N	150	10	100N	30	10N
57 CP210R	20N	50	70	50	.0B	.0B	50N	5000G	15	20N	50	30	100N	5.0L	10N
58 CP211R1	20N	10N	10N	50	.0B	.0B	50N	700	5.0L	20N	5.0L	10N	100N	5.0N	10N
59 CP211R2	20N	10N	10N	15000	.0B	.0B	50N	300	5.0	20N	5.0	20	100N	5.0L	10N
60 CP213R	20N	30	70	5000	.0B	.0B	50N	500	5.0N	20N	10	15	100N	7.0	10N
61 CP301R	20N	700	10N	15	.0B	.0B	50N	5000G	15	20N	200	50	100N	5.0L	10N
62 CP302R	20N	500	10N	30	.0B	.0B	50N	5000G	30	20N	200	30	100N	5.0L	10N
63 CP317R	20N	10	10L	1500	20	10N	50N	300	5.0L	20N	5.0	30	100N	5.0L	10N
64 CP318R	20N	10	10L	5000	15	10N	50N	200	5.0L	20N	5.0N	10	100N	5.0L	10N
65 CP404R1	20N	30	150	300	.0B	.0B	50	5000G	70	20N	70	70	100N	20	10N
66 CP404R2	20N	30	150	50	.0B	.0B	50	1000	5.0N	20N	50	20	100N	20	10N
67 CP405R	20N	10L	10	10	.0B	.0B	50	3000	5.0N	20L	5.0L	10	100N	5.0L	10N

Table 9.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
1	SW009R	700	100N	20	20N	15	200N	70	.0B	.0B	.0B	.0B	.0B
2	SW010R	100L	100N	15	20N	10N	200N	30	.0B	.0B	.0B	.0B	.0B
3	SW017R	500	100N	30	20N	10	200N	50	.0B	.0B	.0B	.0B	.0B
4	SW027R	200	100N	20	20N	10L	200N	50	.0B	.0B	.0B	.0B	.0B
5	SW034R	100	100N	10	20N	10N	200N	100	.0B	.0B	.0B	.0B	.0B
6	SW048R	200	100N	20	20N	10N	200N	10L	.0B	.0B	.0B	.0B	.0B
7	SW056R	150	100N	20	20N	10L	200N	10N	.0B	.0B	.0B	.0B	.0B
8	BM003R1	100L	100N	15	20L	10N	200N	10N	.0B	.0B	.0B	.0B	.0B
9	BM003R2	100L	100N	15	20L	10L	200N	70	.0B	.0B	.0B	.0B	.0B
10	PP005R	100N	100N	20	20N	10	200N	10N	.0B	.0B	.0B	.0B	.0B
11	PP006R1	100N	100N	20	20N	10N	200N	70	.0B	.0B	.0B	.0B	.0B
12	PP028R1	100N	100N	50	20N	10	200N	10N	.0B	.0B	.0B	.0B	.0B
13	GM009R	500	100N	10N	20N	10N	200N	10N	.0B	.0B	.0B	.0B	.0B
14	GM030R	100L	100N	100	20N	10	200N	70	.0B	.0B	.0B	.0B	.0B
15	GM032R	100L	100N	20	20N	70	200N	500	.0B	.0B	.0B	.0B	.0B
16	GM039R	100N	100N	10L	20N	10N	200N	10L	.0B	.0B	.0B	.0B	.0B
17	CA001R2	3000	100N	50	20N	15	200N	70	.0B	.0B	.0B	.0B	.0B
18	CA001R3	100N	100N	10L	20N	10N	200N	20	.0B	.0B	.0B	.0B	.0B
19	CA002R1	200	100N	15	20N	20	200N	10L	.0B	.0B	.0B	.0B	.0B
20	CA002R3	100L	100N	15	20N	10L	200N	50	.0B	.0B	.0B	.0B	.0B
21	CA004R	100L	100N	20	20N	10N	200N	10L	.0B	.0B	.0B	.0B	.0B
22	CA019R1	100	100N	50	20N	15	200N	30	.0B	.0B	.0B	.0B	.0B
23	CA019R2	500	100N	70	20N	20	200N	100	.0B	.0B	.0B	.0B	.0B
24	CA024R1	100N	100N	30	20N	10L	200N	20	.0B	.0B	.0B	.0B	.0B
25	CA024R2	100L	100N	70	20N	15	200N	20	.0B	.0B	.0B	.0B	.0B
26	CA024R4	300	100N	10L	20N	15	200N	10	.0B	.0B	.0B	.0B	.0B
27	CA024R5	100L	100N	50	20N	15	200N	20	.0B	.0B	.0B	.0B	.0B
28	CA041R1	5000	100N	15	20N	30	200N	10L	.0B	.0B	.0B	.0B	.0B
29	CA042R	300	100N	30	20N	15	700	10L	.0B	.0B	.0B	.0B	.0B
30	CA048R1	500	100N	30	20N	20	200N	70	.0B	.0B	.0B	.0B	.0B
31	CA048R2	500	100N	20	20N	50	200N	300	.0B	.0B	.0B	.0B	.0B
32	CA055R	150	100N	50	20N	15	200N	50	.0B	.0B	.0B	.0B	.0B
33	CA069R1	200	100N	10L	20N	20	200N	70	.0B	.0B	.0B	.0B	.0B
34	CA069R2	300	100N	20	20N	20	200N	100	.0B	.0B	.0B	.0B	.0B
35	CA070R	100	100N	10N	20N	30	200N	150	.0B	.0B	.0B	.0B	.0B
36	CA074R1	700	100N	100	20N	20	200N	100	.0B	.0B	.0B	.0B	.0B
37	CA074R2	200	100N	10L	20N	10N	200N	10	.0B	.0B	.0B	.0B	.0B
38	CA077R1	100N	100N	15	30	10N	200N	20	.0B	.0B	.0B	.0B	.0B
39	CA077R2	100	100N	10L	20N	10L	200N	10L	.0B	.0B	.0B	.0B	.0B
40	CA077R3	100L	100N	10	20N	10	200N	150	.0B	.0B	.0B	.0B	.0B

Table 9.--continued.

	Field #	Sr ppm-S	Th ppm-S	V ppm-S	W ppm-S	Y ppm-S	Zn ppm-S	Zr ppm-S	As ppm-P	Bi ppm-P	Cd ppm-P	Sb ppm-P	Zn ppm-P
41	CA078R1	100	100N	70	30	15	200N	30	.0B	.0B	.0B	.0B	.0B
42	CA078R2	100L	100N	10	20N	10N	200N	10L	.0B	.0B	.0B	.0B	.0B
43	CA079R	150	100N	30	30	10N	200N	10	.0B	.0B	.0B	.0B	.0B
44	CA080R2	100	100N	10L	20N	100	200N	10N	.0B	.0B	.0B	.0B	.0B
45	CA080R4	500	100N	20	20N	30	200N	20	.0B	.0B	.0B	.0B	.0B
46	CP003R	300	200N	15	50N	30	200N	300	7.0	2.0L	.8	2.0L	92
47	CP009R1	150	200N	20	50N	15	300	70	48	14	4.6	2.0L	600
48	CP009R2	100	100N	50	50N	15	200N	200	28	49	1.0	2.0	79
49	CP014R	700	200N	70	50N	30	200N	150	11	2.0	1.8	2.0L	84
50	CP021R	2000	200N	30	50N	15	200N	30	12	2.0	2.8	2.0	48
51	CP022R	100L	200N	30	50N	20	200N	10L	49	2.0L	3.5	21	26
52	CP201R	300	100N	150	50N	20	200N	50	22	2.0L	1.1	2.0L	18
53	CP203R	100L	100N	70	50N	150	200N	100	28	11	1.3	2.0N	13
54	CP207R	200	100N	300	50N	20	200N	30	5.0N	2.0N	1.1	2.0N	31
55	CP208R1	1500	100N	150	50N	10N	200N	100	5.0N	2.0N	0.1N	2.0N	2.0N
56	CP208R2	1000	100N	300	50N	30	200N	70	5.0N	2.0	2.0	2.0N	20
57	CP210R	700	100N	150	50N	10	200N	20	86	21	4.0	2.0N	19
58	CP211R1	100L	100N	50	50N	10N	200N	10N	6.0	4.0	5.9	2.0N	12
59	CP211R2	150	100N	150	50N	10N	200N	10N	37	29	1.1	2.0N	46
60	CP213R	100	100N	200	50N	10N	200N	30	15	5.0	1.4	2.0N	48
61	CP301R	500	100N	50	50N	20	1000	20	44	5.0	11	2.0N	730
62	CP302R	300	100N	70	50N	15	1000	15	94	7.0	12	2.0	1200
63	CP317R	100N	100N	50	20N	10N	200L	30	7.0	3.0	1.1	2.0N	140
64	CP318R	100N	100N	10	20N	10N	200N	20	5.0N	2.0N	.50	2.0N	33
65	CP404R1	5000	100N	300	50N	20	200N	100	250	7.0	.80	12	450
66	CP404R2	1500	100N	200	50N	15	300	70	370	2.0N	.50	2.0N	280
67	CP405R	150	100N	70	50N	30	200L	70	7.0	2.0N	.20	2.0N	8

Table 9.--continued.

	Field #	Au ppm-A	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
1	SW009R	.0B	.022	.33	1.0N	.25N	1.0N	.05N	2000G	6.6	1.4	1.0N	.05N
2	SW010R	.0B	.002	.43	3.8	.25N	1.0N	.05N	2000G	5.0	55	1.0N	63
3	SW017R	.0B	.002N	.50	3.4	.25N	1.0N	.05N	2000G	9.4	75	1.0N	24
4	SW027R	.05N	.0B	.075N	1.0N	.25N	1.0N	.05N	9.3	.22	2.7	1.0N	5.8
5	SW034R	.05N	.0B	.075N	1.0N	.25N	1.0N	.05N	2.6	.29	3.0	1.0N	27
6	SW048R	.05N	.0B	4.1	1.0N	.25N	69	.74	2000G	.09N	1.0N	25	.05N
7	SW056R	.05N	.0B	.075N	1.0N	.25N	1.0N	.09	560	2.7	1.0N	1.1	23
8	BM003R1	.05N	.0B	.25	1.0N	.25N	1.0N	.20	2000G	.09N	1.0N	2.6	.05N
9	BM003R2	.05N	.0B	.17	6.4	.25N	1.0N	.14	1300	3.0	1.0N	1.4	55
10	PP005R	.05N	.0B	.11	1.0N	.25N	1.0N	.07	730	.70	1.0N	1.1	.87
11	PP006R1	.05N	.0B	.075N	1.0N	.25N	1.0N	.05	69	2.3	1.6	1.0	2.1
12	PP028R1	.05N	.0B	.55	1.0N	.25N	1.0N	.40	2000G	.09N	1.0N	12	.05N
13	GM009R	.20	.0B	.075N	1.0N	.25N	1.0N	.05N	28	.17	1.0N	1.0N	1.5
14	GM030R	.05	.0B	1.1	1.0N	.25N	36	1.5	2000G	.09N	22	18	77
15	GM032R	.05N	.0B	.075N	1.0N	.25N	1.0N	.09	28	.56	5.8	1.0N	80
16	GM039R	.05N	.0B	.075N	1.0N	.25N	1.0N	.05N	11	.22	12	1.0N	.05N
17	CA001R2	.0B	.006	.73	2.2	.25N	1.0N	.05N	2000G	.09N	200	1.0N	110
18	CA001R3	.0B	.002N	.075N	1.0N	.25N	1.0N	.05N	10	2.3	2.3	1.0N	9.5
19	CA002R1	.0B	.002	.075N	1.0N	.25N	1.0N	.08	77	.41	2.0	1.0N	19
20	CA002R3	.0B	.002	.075N	1.0N	.25N	1.0N	.10	9.0	.31	1.8	1.0N	6.1
21	CA004R	.0B	.40	5.7	19	.25N	48	.05N	2000G	3.4	61	6.7	67
22	CA019R1	.0B	.03	.075N	3.0	.25N	1.0N	.17	58	.80	13	1.0N	90
23	CA019R2	.0B	.002N	.075N	1.0N	.25N	1.0N	.06	15	5.7	5.7	1.0N	15
24	CA024R1	.0B	.006	.075N	1.0N	.25N	1.0N	.13	26	.48	4.0	1.0N	10
25	CA024R2	.0B	.01	.075N	44	.25N	1.0N	.11	15	1.6	2.4	1.0N	71
26	CA024R4	.0B	.002N	.075N	5.1	.25N	1.0N	.43	16	.24	1.8	1.8	7.1
27	CA024R5	.0B	.02	.075N	16	.25N	1.4	.07	350	1.5	5.4	1.1	36
28	CA041R1	.0B	.002N	.22	170	.25N	1.0N	.45	770	.36	15	32	130
29	CA042R	.0B	.002N	.35	150	.25N	4	3.1	65	32	15	1.0N	800G
30	CA048R1	.0B	.002N	.075N	1.0	.25N	1.0N	.17	21	.38	3.1	1.0N	47
31	CA048R2	.0B	.002N	.075N	32	.25N	1.0N	.18	4.6	4.8	9.0	1.0N	140
32	CA055R	.0B	.002N	.075N	7.1	.25N	1.0N	.06	15	3.2	8.3	1.5	230
33	CA069R1	.0B	.002N	.075N	2.8	.25N	1.0N	.16	7.1	.28	3.4	1.0N	23
34	CA069R2	.0B	.002N	.075N	3.4	.25N	1.0N	.12	12	.41	4.4	1.0N	41
35	CA070R	.0B	.002N	.075N	1.0N	.25N	1.0N	.25	6.3	1.4	3.8	1.0N	62
36	CA074R1	.0B	.002N	.075N	2.3	.25N	1.0N	.28	33	.93	6.1	1.0N	55
37	CA074R2	.0B	.002	.075N	2.9	.25N	1.0N	.21	4.4	.17	2.1	1.0N	3.6
38	CA077R1	.0B	.20	1.0	1.0N	.25N	1.0N	.05N	2000G	.09N	6.7	1.0N	37
39	CA077R2	.0B	.002N	.075N	1.30	.25N	1.0N	.09	27	.30	1.7	1.0N	2.7
40	CA077R3	.0B	.006	.075N	24	.25N	1.0N	.14	30	.25	4.1	1.0N	16

Table 9.--continued.

	Field #	Au ppm-A	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
41	CA078R1	.0B	.20	1.7	1.0N	.25N	56	.05N	2000G	.09N	13	9.1	18
42	CA078R2	.0B	.10	.61	1.0N	.25N	1.0N	.05N	2000G	.36	1.0N	1.0N	.05N
43	CA079R	.0B	.006	2.1	1.0N	.25N	110	.05N	2000G	.09N	20	19	33
44	CA080R2	.0B	.010	.075N	176	.25N	1.0N	.06	120	7.4	1.5	1.0N	1.5
45	CA080R4	.0B	.008	.90	15	.25N	1.0N	.05N	2000G	14	5.1	1.0N	1.3
46	CP009R	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
47	CP009R1	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
48	CP009R2	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
49	CP014R	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
50	CP021R	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
51	CP022R	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
52	CP201R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
53	CP203R	1.2	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
54	CP207R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
55	CP208R1	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
56	CP208R2	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
57	CP210R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
58	CP211R1	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
59	CP211R2	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
60	CP213R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
61	CP301R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
62	CP302R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
63	CP317R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
64	CP318R	.22	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
65	CP404R1	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
66	CP404R2	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B
67	CP405R	.10N	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B	.0B

Table 10.--Basic statistics for 67 rock samples from the Swansea, Planet Peak, Gibraltar Mountain, Cactus Plain, and East Cactus Plain Wilderness Study Areas, La Paz and Mohave Counties, AZ. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -S, semiquantitative emission spectrography; -A, atomic absorption spectrometry; -G, graphite furnace atomic absorption spectrometry; -I, 10-element inductively coupled plasma-atomic emission spectrometry; -P, 5-element inductively coupled plasma-atomic emission spectrometry]

		UNIVARIATE STATISTICS								
	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	CA PCT-S	.05	20	3.3	4.3	64	0	2	0	1
2	FE PCT-S	.05	20	5.4	6.8	61	0	0	0	6
3	MG PCT-S	.02	7.0	.59	.99	66	0	1	0	0
4	NA PCT-S	.20	3.0	1.3	.87	26	20	13	8	0
5	P PCT-S	---	---	---	---	0	20	23	24	0
6	TI PCT-S	.003	.70	.12	.18	64	0	2	1	0
7	AG PPM-S	.50	5.0	1.2	1.2	17	0	5	45	0
8	AS PPM-S	300	300	300	---	2	0	0	65	0
9	AU PPM-S	---	---	---	---	0	0	0	67	0
10	B PPM-S	10	200	39	37	41	0	17	9	0
11	BA PPM-S	20	3000	490	5400	59	0	1	1	6
12	BE PPM-S	1.0	7.0	2.4	2.1	21	0	20	26	0
13	BI PPM-S	10	50	30	28	2	0	0	65	0
14	CD PPM-S	---	---	---	---	0	0	0	67	0
15	CO PPM-S	5.0	1000	120	230	34	0	10	23	0
16	CR PPM-S	10	500	89	130	21	0	10	36	0
17	CU PPM-S	5.0	15000	2200	4000	62	0	5	0	0
18	GA PPM-S	7.0	70	24	15	27	20	5	15	0
19	GE PPM-S	---	---	---	---	0	20	0	47	0
20	LA PPM-S	30	1000	140	220	18	0	9	40	0
21	MN PPM-S	10	3000	470	640	62	0	1	0	4
22	MO PPM-S	5.0	70	15	16	18	0	14	35	0
23	NB PPM-S	20	50	32	11	5	0	9	53	0
24	NI PPM-S	5.0	200	54	64	32	0	27	8	0
25	PB PPM-S	10	200	31	32	37	0	10	20	0
26	SB PPM-S	150	150	150	---	1	0	0	66	0
27	SC PPM-S	5.0	50	13	10	23	0	23	21	0
28	SN PPM-S	20	20	20	---	1	0	3	63	0
29	SR PPM-S	100	5000	680	1100	44	0	14	9	0
30	TH PPM-S	---	---	---	---	0	0	0	67	0
31	V PPM-S	10	300	63	73	58	0	7	2	0
32	W PPM-S	30	30	30	---	3	0	2	62	0
33	Y PPM-S	10	150	25	26	42	0	6	19	0
34	ZN PPM-S	300	1000	660	350	5	0	2	60	0
35	ZR PPM-S	10	500	78	88	50	0	9	8	0

Table 10.--continued.

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
36	AS PPM-P	6.0	370	62	96	18	45	0	4	0
37	BI PPM-P	2.0	49	12	13	14	45	0	8	0
38	CD PPM-P	.20	12	2.8	3.3	21	45	0	1	0
39	SB PPM-P	2.0	21	7.8	8.6	5	45	0	17	0
40	ZN PPM-P	8.0	1200	190	310	21	45	0	1	0
41	AU PPM-A	.22	1.2	.71	.69	2	50	0	15	0
42	AU PPM-G	.002	.40	.064	.11	20	22	0	25	0
43	AG PPM-I	.11	5.7	1.2	1.5	18	22	0	27	0
44	AS PPM-I	1.0	176	31	56	22	22	0	23	0
45	AU PPM-I	---	---	---	---	0	22	0	45	0
46	BI PPM-I	1.4	110	46	38	7	22	0	38	0
47	CD PPM-I	.05	3.1	.32	.60	30	22	0	15	0
48	CU PPM-I	2.6	1300	140	300	31	22	0	0	14
49	MO PPM-I	.17	32	3.1	5.8	37	22	0	8	0
50	PB PPM-I	1.4	200	16	35	37	22	0	8	0
51	SB PPM-I	1.0	32	8.9	10	15	22	0	30	0
52	ZN PPM-I	.87	230	43	48	38	22	0	6	1

Table 11.--Brief description of rock samples collected for chemical analysis.

	Field #	Character	Source	Sample description
1	SW009R	grab	outcrop	siliceous mylonite, chrysocolla, malachite
2	SW010R	grab	mine/prospect	unnamed prospect; quartz vein, FeO_2 pseudomorphs after pyrite, copper-staining
3	SW017R	grab	outcrop	hematite-epidote vein cutting quartz gneiss, trace malachite
4	SW027R	grab	outcrop	FeO_2-stained sheared felsic gneiss
5	SW034R	grab	outcrop	medium-grained garnet-bearing granite
6	SW048R	composite	float	malachite-chrysocolla-epidote-specularite cobbles
7	SW056R	grab	mine/prospect	Swansea Mine; massive specularite
8	BM003R1	composite	mine/prospect	near Mineral Hill Mine; chip sample; specularite, chrysocolla, quartz
9	BM003R2	composite	mine/prospect	near Mineral Hill Mine; composite dump sample
10	CA077R1	composite	mine/prospect	Pride Mine; mineralized chip sample; malachite, chrysocolla, specularite
11	CA077R2	grab	outcrop	Pride Mine; carbonate overlying mineralized zone
12	CA077R3	grab	outcrop	Pride Mine; brown resistate blotches enclosed by carbonate overlying deposit
13	CA078R1	composite	mine/prospect	Little Golden Prospect; composite of specularite- & copper-rich dump material
14	CA078R2	grab	mine/prospect	Little Golden Prospect; silicified outcrop; drusy quartz, FeO_2, chrysocolla
15	CA079R	composite	mine/prospect	New Standard Mine; composite from prospects; specularite, secondary Cu, quartz
16	PP005R	grab	mine/prospect	Iron King Mine; specularite
17	PP006R1	grab	mine/prospect	unidentified prospect; specularite & trace secondary copper
18	PP028R1	composite	float	specularite & trace chrysocolla as cobbles in drainage
19	GM009R	grab	outcrop	calcite vein cutting basalt
20	GM030R	composite	float	below Mammon Mine; specularite, chrysocolla
21	GM032R	grab	outcrop	lithic dacite tuff
22	GM039R	composite	float	collected downstream of prospects; bull quartz & FeO_2
23	CA001R2	composite	float	mineralized float; chrysocolla, quartz
24	CA001R3	grab	outcrop	brecciated, mylonitic quartz; MnO2-stained
25	CA002R1	composite	float	mineralized float; chalcedonic silica, pyrite boxwork, calcite
26	CA002R3	grab	outcrop	quartz vein
27	CA004R	composite	mine/prospect	Green Streak Mine; dump from shaft; drusy quartz, secondary Cu, FeO_2 stained
28	CA019R1	grab	outcrop	carbonate-cemented breccia
29	CA019R2	composite	outcrop	composite chip sample; epidote and FeO_2 stained
30	CA024R1	grab	outcrop	chalcedonic quartz vug in basalt
31	CA024R2	composite	outcrop	composite chip sample; FeO_2-stained basalt in shear zone
32	CA024R4	grab	outcrop	calcite vein cutting basalt
33	CA024R5	composite	mine/prospect	small unidentified prospect; calcite vein with secondary copper
34	CA041R1	composite	mine/prospect	Black Mountain barite mine; chip sample; barite-quartz vein
35	CA042R	composite	mine/prospect	small unidentified prospect; MnO_2 & FeO_2 along fault zone
36	CA048R1	composite	outcrop	basalt chip sample
37	CA048R2	composite	outcrop	andesitic basalt chip sample
38	CA055R	composite	mine/prospect	unidentified prospect; calcite veins with secondary Cu in brecciated basalt
39	CA069R1	composite	outcrop	chip sample of tufa capping basalt
40	CA069R2	composite	mine/prospect	small unidentified prospect; chips of tufa capping basalt
41	CA070R	grab	outcrop	andesitic basalt porphyry
42	CA074R1	composite	float	MnO_2-coated and FeO_2-coated vesicular basalt
43	CA074R2	composite	outcrop	chips from caliche horizon in basalt
44	CA080R2	grab	mine/prospect	trench in Plomosa mining district; massive coarsely-crystalline calcite
45	CA080R4	grab	mine/prospect	dump material from shaft in Plomosa mining district; specularite and clay
46	CP003R	grab	outcrop	extrusive intermediate igneous rock
47	CP009R1	composite	outcrop	MnO_2-coated and FeO_2-coated extrusive intermediate igneous rock
48	CP009R2	composite	outcrop	andesite
49	CP014R	grab	outcrop	extrusive intermediate igneous rock
50	CP021R	composite	mine/prospect	Black Mountain barite prospect area; mineralized carbonate

Table 11.--continued.

	Field #	Character	Source	Sample description
51	CP022R	composite	mine/prospect	Black Mountain barite prospect; carbonate
52	CP201R	composite	outcrop	calcareous breccia
53	CP203R	composite	mine/prospect	Plomosa mining district; FeO_2-rich and MnO_2-rich chloritic rock
54	CP207R	composite	float	mafic igneous rock
55	CP208R1	composite	mine/prospect	Plomosa mining district; FeO_2-coated and MnO_2-coated felsic igneous rock
56	CP208R2	composite	mine/prospect	Plomosa mining district; FeO_2-coated and MnO_2-coated intermediate igneous rock
57	CP210R	composite	mine/prospect	unidentified prospect; FeO_2-coated and MnO_2-coated felsic igneous rock
58	CP211R1	composite	mine/prospect	New Standard mine area; specularite-rich rock
59	CP211R2	composite	mine/prospect	New Standard mine area; FeO_2-rich and MnO_2-rich chloritic rock
60	CP213R	composite	mine/prospect	Little Golden prospect area; specularite-rich rock
61	CP301R	composite	outcrop	FeO_2-rich and MnO_2-rich rock from fault zone
62	CP302R	composite	outcrop	FeO_2-rich and MnO_2-rich rock from fault zone
63	CP317R	composite	mine/prospect	Green Streak Mine; hematite chip composite sample from prospect
64	CP318R	composite	mine/prospect	Green Streak Mine; hematite chip composite sample from prospect
65	CP404R1	composite	outcrop	FeO_2-rich and MnO_2-rich chloritic rock
66	CP40442	composite	outcrop	FeO_2-rich and MnO_2-rich chloritic rock
67	CP405R	composite	outcrop	FeO_2-rich and MnO_2-rich igneous rock

Table 12.--Results of analyses of creosote-bush (Larrea tridentata [DC.] Coville) samples from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, AZ. [N, not detected at indicated detection limit]

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
1	CA001C	340505	1135443	9.6	.22	25	.15	11	3.0	.26	1.3	.01	640	4.0N	20N	20N
2	CA002C	340500	1135519	8.2	.15	21	.11	19	2.6	.12	1.4	.01	410	4.0N	20N	20N
3	CA002CX	340500	1135519	9.1	.21	24	.15	15	1.9	.11	1.5	.01	320	4.0N	20N	20N
4	CA003C	340501	1135509	8.2	.20	21	.13	17	3.7	.19	1.4	.01	690	4.0N	20N	20N
5	CA004C	340552	1135541	9.2	.15	23	.12	18	1.7	.16	1.5	.01N	350	4.0N	20N	20N
6	CA005C	340409	1135540	9.3	.23	21	.15	18	2.8	.13	1.5	.01	330	4.0N	20N	20N
7	CA006C	340315	1135656	8.1	.28	20	.19	21	2.8	.21	2.2	.02	370	4.0N	20N	20N
8	CA007C	340344	1135619	8.1	.27	21	.17	20	2.6	.13	1.8	.02	500	4.0N	20N	20N
9	CA008C	340308	1135419	7.8	.28	21	.18	18	3.1	.15	1.7	.02	590	4.0N	20N	20N
10	CA009C	340309	1135503	8.7	.19	23	.13	17	3.0	.11	1.6	.01	520	4.0N	20N	20N
11	CA010CA	340232	1135529	9.3	.18	22	.13	16	3.1	.32	1.1	.01	400	4.0N	20N	20N
12	CA010CB	340232	1135529	8.3	.26	22	.16	15	3.7	.31	1.3	.01	520	4.0N	20N	20N
13	CA011C	340203	1135622	8.9	.20	20	.13	20	3.0	.11	1.4	.01	350	4.0N	20N	20N
14	CA012C	340148	1135656	8.9	.24	23	.15	15	2.9	.10	1.3	.01	540	4.0N	20N	20N
15	CA013C	340044	1135855	7.2	.22	21	.16	17	3.9	.12	2.0	.01	460	4.0N	20N	20N
16	CA014C	340019	1135927	8.6	.27	22	.18	17	2.8	.30	1.4	.02	400	4.0N	20N	20N
17	CA015C	340103	1135740	8.1	.32	20	.20	20	2.5	.18	1.6	.02	390	4.0N	20N	20N
18	CA016CA	340110	1135617	7.6	.21	21	.15	17	3.9	.36	1.4	.01	560	4.0N	20N	20N
19	CA016CB	340110	1135617	7.9	.36	17	.22	21	3.1	.25	1.5	.02	530	4.0N	20N	20N
20	CA017C	340127	1135925	9.3	.26	24	.17	12	2.5	.23	1.2	.02	510	4.0N	20N	20N
21	CA018C	340526	1135604	8.1	.26	19	.19	20	4.1	.45	1.6	.02	520	4.0N	20N	20N
22	CA019C	340506	1135615	8.6	.19	22	.14	19	3.0	.13	1.7	.01	410	4.0N	20N	20N
23	CA020C	340423	1135810	8.6	.31	21	.20	17	2.9	.14	1.6	.02	430	4.0N	20N	20N
24	CA021C	340345	1135854	8.3	.21	22	.14	16	3.5	.09	1.5	.01	390	4.0N	20N	20N
25	CA022C	340603	1135731	9.4	.22	21	.14	19	2.5	.13	1.1	.01	390	4.0N	20N	20N
26	CA023C	340538	1135800	7.8	.31	18	.20	23	3.8	.50	1.3	.02	530	4.0N	20N	20N
27	CA024CA	340126	1140505	8.2	.26	24	.18	15	2.9	.25	1.9	.02	430	4.0N	20N	20N
28	CA024CB	340126	1140505	7.4	.27	19	.18	21	2.8	.20	2.0	.02	460	4.0N	20N	20N
29	CA024CX	340126	1140505	8.2	.26	22	.18	21	1.8	.16	1.4	.02	510	4.0N	20N	20N
30	CA024CY	340126	1140505	8.6	.26	26	.18	12	2.0	.22	1.1	.02	460	4.0N	20N	20N
31	CA025C	340207	1140426	7.7	.26	21	.17	20	2.2	.14	1.4	.02	340	4.0N	20N	20N
32	CA026C	340321	1140352	8.4	.25	22	.17	18	2.2	.16	1.6	.01	330	4.0N	20N	20N
33	CA027C	340247	1140411	9.3	.22	21	.15	21	2.2	.13	1.5	.01	310	4.0N	20N	20N
34	CA028C	340324	1140500	8.9	.27	22	.18	18	2.4	.14	1.5	.02	330	4.0N	20N	20N
35	CA029C	340238	1140509	9.2	.26	21	.17	20	2.1	.14	1.5	.02	360	4.0N	20N	20N
36	CA030C	340437	1140057	8.2	.25	21	.17	18	3.1	.11	1.7	.01	380	4.0N	20N	20N
37	CA031C	340346	1140215	8.1	.26	20	.18	21	2.7	.16	1.7	.02	330	4.0N	20N	20N
38	CA032CA	340244	1140318	8.0	.24	24	.16	16	2.2	.21	1.8	.02	340	4.0N	20N	20N
39	CA032CB	340244	1140318	8.8	.19	19	.14	22	2.2	.09	1.7	.01	300	4.0N	20N	20N
40	CA033C	340108	1140340	8.7	.26	21	.17	18	2.7	.16	1.5	.02	460	4.0N	20N	20N

Table 12.--continued.

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
41	CA034C	340011	1140344	7.7	.38	18	.24	23	2.4	.15	1.7	.02	350	4.0N	20N	20N
42	CA035C	340009	1140246	7.0	.25	22	.17	19	2.6	.21	2.1	.02	360	4.0N	20N	20N
43	CA036C	340050	1140221	9.0	.30	23	.18	17	2.1	.19	1.4	.02	440	4.0N	20N	20N
44	CA037C	340238	1140157	8.4	.28	21	.17	18	2.9	.18	1.4	.02	400	4.0N	20N	20N
45	CA038C	340145	1140158	9.2	.24	20	.15	22	1.9	.15	1.6	.01	460	4.0N	20N	20N
46	CA039C	340226	1140048	8.2	.35	20	.22	19	2.7	.18	1.3	.02	360	4.0N	20N	20N
47	CA040CA	340129	1140022	7.8	.28	23	.20	17	3.0	.17	1.7	.02	460	4.0N	20N	20N
48	CA040CB	340129	1140022	8.4	.29	21	.19	16	3.1	.36	1.4	.02	490	4.0N	20N	20N
49	CA041C	335954	1140102	8.5	.27	19	.18	19	2.7	.47	1.3	.02	460	4.0N	20N	20N
50	CA041CX	335954	1140102	8.4	.39	21	.25	18	1.9	.22	1.2	.02	480	4.0N	20N	20N
51	CA042C	340456	1141106	8.5	.27	19	.18	18	2.6	.23	1.4	.02	470	4.0N	20N	20N
52	CA043C	340410	1140834	9.8	.24	24	.15	15	1.8	.19	1.2	.01	490	4.0N	20N	20N
53	CA044C	340350	1140958	9.2	.28	19	.17	19	2.7	.31	1.1	.01	710	4.0N	20N	20N
54	CA045C	335956	1140953	8.8	.33	21	.23	17	2.3	.24	1.5	.02	330	4.0N	20N	20N
55	CA046C	340315	1140729	8.2	.27	20	.18	20	2.5	.26	1.3	.02	500	4.0N	20N	20N
56	CA047C	340307	1140634	8.4	.33	22	.20	15	2.7	.13	1.5	.02	520	4.0N	20N	20N
57	CA048CA	340213	1140655	8.6	.37	20	.24	19	2.4	.20	1.8	.02	590	4.0N	20N	20N
58	CA048CB	340213	1140655	7.6	.23	21	.16	19	1.9	.21	2.1	.01	370	4.0N	20N	20N
59	CA049C	335941	1140722	8.9	.43	20	.26	18	2.2	.20	1.3	.03	380	4.0N	20N	20N
60	CA050C	340003	1140610	8.5	.35	18	.22	22	2.0	.16	1.4	.02	360	4.0N	20N	20N
61	CA051C	340051	1140653	9.1	.35	17	.21	22	2.2	.32	1.9	.02	420	4.0N	20N	20N
62	CA052C	340131	1140707	8.7	.28	19	.18	19	2.8	.18	1.9	.01	400	4.0N	20N	20N
63	CA053C	340114	1140619	8.7	.29	20	.18	19	2.5	.22	1.5	.02	440	4.0N	20N	20N
64	CA054C	340043	1140536	8.6	.34	19	.21	20	2.7	.21	1.4	.02	490	4.0N	20N	20N
65	CA055C	335935	1140453	8.6	.43	22	.26	15	2.6	.23	1.5	.02	440	4.0N	20N	20N
66	CA055CX	335935	1140453	7.7	.38	24	.27	17	1.8	.26	1.6	.03	390	4.0N	20N	20N
67	CA056CA	340007	1141136	7.6	.24	23	.17	15	2.3	.18	1.5	.01	720	4.0N	20N	20N
68	CA056CB	340007	1141136	8.6	.28	22	.19	15	1.9	.23	1.2	.02	410	4.0N	20N	20N
69	CA057C	340301	1140753	9.5	.27	21	.18	16	2.9	.18	1.2	.02	560	4.0N	20N	20N
70	CA058C	340607	1140843	8.4	.33	20	.21	19	3.1	.19	1.9	.02	440	4.0N	20N	20N
71	CA059C	340633	1135756	8.9	.34	20	.22	19	3.2	.48	1.0	.02	580	4.0N	20N	20N
72	CA060C	340555	1135837	8.8	.44	20	.27	20	2.6	.46	1.1	.03	470	4.0N	20N	20N
73	CA061C	340523	1135913	8.9	.29	18	.19	23	2.6	.11	1.7	.02	340	4.0N	20N	20N
74	CA062C	340451	1135859	8.2	.28	19	.17	20	3.0	.13	1.7	.01	510	4.0N	20N	20N
75	CA063C	340457	1140012	7.7	.23	21	.16	19	2.5	.15	1.6	.01	520	4.0N	20N	20N
76	CA064CA	340510	1140117	7.6	.31	22	.21	17	2.9	.18	1.7	.02	440	4.0N	20N	20N
77	CA064CB	340510	1140117	8.4	.23	22	.16	18	2.4	.10	1.6	.01	390	4.0N	20N	20N
78	CA065C	340535	1140228	10	.46	20	.25	17	3.1	.32	0.9	.02	450	4.0N	20N	20N
79	CA066C	340532	1140316	7.2	.36	18	.22	21	3.8	.16	1.6	.02	670	4.0N	20N	20N
80	CA067C	340603	1140353	6.9	.44	17	.27	23	3.7	.18	1.8	.03	720	4.0N	20N	20N

Table 12.--continued.

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
81	CA068C	340614	1140444	10	.26	23	.15	12	2.9	.12	1.3	.01	760	4.0N	20N	20N
82	CA069C	340604	1140506	8.7	.52	21	.30	17	2.3	.23	1.0	.03	480	4.0N	20N	20N
83	CA070C	340605	1140650	9.8	.25	22	.17	16	2.7	.16	1.0	.02	840	4.0N	20N	20N
84	CA071C	340518	1140643	7.7	.23	20	.16	20	2.5	.18	1.6	.01	590	4.0N	20N	20N
85	CA072CA	340634	1140716	8.4	.47	23	.27	14	3.2	.18	1.3	.03	800	4.0N	20N	20N
86	CA072CB	340634	1140716	7.5	.68	16	.37	19	4.5	.59	1.2	.04	710	4.0N	20N	20N
87	CA073C	340730	1141026	7.9	.49	22	.29	16	2.8	.30	1.1	.03	850	4.0N	20N	20N
88	CA074C	340657	1141040	9.1	.50	22	.30	14	2.6	.27	1.1	.03	390	4.0N	20N	20N
89	CA075C	340602	1141047	8.7	.35	21	.22	19	2.1	.17	1.5	.02	530	4.0N	20N	20N
90	CA076C	340617	1140754	9.2	.33	23	.19	14	2.3	.20	1.4	.02	400	4.0N	20N	20N
91	CA077C	340923	1140220	8.7	.20	23	.16	17	1.6	.13	1.5	.01	260	4.0N	20N	20N
92	CA078C1	340801	1140259	9.0	.45	22	.27	15	2.2	.20	1.1	.03	430	4.0N	20N	20N
93	CA078C2	340801	1140259	8.1	.30	22	.20	15	2.3	.11	1.5	.02	430	4.0N	20N	20N
94	CA078C3	340801	1140259	8.5	.29	20	.20	16	3.4	.21	1.3	.02	610	4.0N	20N	20N
95	CA078C4	340801	1140259	9.3	.26	23	.16	11	2.6	.09	1.0	.02	470	4.0N	20N	20N
96	CA079C	340753	1140213	9.9	.27	24	.19	12	2.3	.76	1.1	.02	410	4.0N	20N	20N
97	CA080CA	335819	1140336	9.1	.24	24	.20	14	2.3	.30	1.3	.01	320	4.0N	20N	20N
98	CA080CB	335819	1140336	9.5	.26	18	.20	20	2.5	.30	1.2	.02	600	4.0N	20N	20N

Table 12.--continued.

	Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
1	CA001C	850	2.0N	20N	4.0N	8.0N	5.0	5.0	150	4.0N	8.0N	8.0N	6.0	12	6.0	8.0N
2	CA002C	510	2.0N	20N	4.0N	8.0N	4.0	2.0N	150	4.0N	8.0N	8.0N	5.0	13	5.0	8.0N
3	CA002CX	480	2.0N	20N	4.0N	8.0N	4.0	3.0	96	4.0N	8.0N	8.0N	5.0	5.0	4.0	8.0N
4	CA003C	910	2.0N	20N	4.0N	8.0N	4.0	3.0	120	4.0N	8.0N	8.0N	5.0	28	5.0	8.0N
5	CA004C	620	2.0N	20N	4.0N	8.0N	5.0	3.0	250	4.0N	8.0N	8.0N	5.0	8.0	5.0	8.0N
6	CA005C	820	2.0N	20N	4.0N	8.0N	4.0	3.0	44	4.0N	8.0N	8.0N	5.0	5.0	5.0	8.0N
7	CA006C	570	2.0N	20N	4.0N	8.0N	3.0	4.0	66	4.0N	8.0N	8.0N	5.0	21	4.0N	8.0N
8	CA007C	890	2.0N	20N	4.0N	8.0N	5.0	4.0	46	4.0N	8.0N	8.0N	5.0	10	4.0	8.0N
9	CA008C	380	2.0N	20N	4.0N	8.0N	5.0	4.0	76	4.0N	8.0N	8.0N	5.0	7.0	4.0N	8.0N
10	CA009C	620	2.0N	20N	4.0N	8.0N	4.0	2.0	52	4.0N	8.0N	8.0N	6.0	6.0	4.0	8.0N
11	CA010CA	360	2.0N	20N	4.0N	8.0N	4.0	5.0	85	4.0N	8.0N	8.0N	4.0	17	6.0	8.0N
12	CA010CB	520	2.0N	20N	4.0N	12	5.0	5.0	90	4.0N	8.0N	8.0N	5.0	21	8.0	8.0N
13	CA011C	500	2.0N	20N	4.0N	8.0N	3.0	3.0	58	4.0N	8.0N	8.0N	5.0	10	4.0N	8.0N
14	CA012C	620	2.0N	20N	4.0N	8.0N	4.0	3.0	100	4.0N	8.0N	8.0N	5.0	7.0	4.0	8.0N
15	CA013C	600	2.0N	20N	4.0N	8.0N	3.0	3.0	79	4.0N	8.0N	8.0N	4.0	17	6.0	8.0N
16	CA014C	530	2.0N	20N	4.0N	8.0N	4.0	5.0	57	4.0N	8.0N	8.0N	5.0	9.0	5.0	8.0N
17	CA015C	440	2.0N	20N	4.0N	8.0N	4.0	4.0	81	4.0N	8.0N	8.0N	5.0	17	5.0	8.0N
18	CA016CA	660	2.0N	20N	4.0N	8.0N	4.0	3.0	100	4.0N	8.0N	8.0N	5.0	60	9.0	8.0N
19	CA016CB	370	2.0N	20N	4.0N	8.0N	4.0	5.0	110	4.0N	8.0N	8.0N	7.0	17	4.0N	8.0N
20	CA017C	620	2.0N	20N	4.0N	8.0N	6.0	4.0	110	4.0N	8.0N	8.0N	4.0	13	5.0	8.0N
21	CA018C	470	2.0N	20N	4.0N	8.0N	5.0	3.0	99	4.0N	8.0N	8.0N	4.0	43	4.0	8.0N
22	CA019C	380	2.0N	20N	4.0N	8.0N	3.0	2.0	78	4.0N	8.0N	8.0N	4.0	7.0	4.0N	8.0N
23	CA020C	640	2.0N	20N	4.0N	8.0N	4.0	4.0	75	4.0N	8.0N	8.0N	5.0	8.0	5.0	8.0N
24	CA021C	1200	2.0N	20N	4.0N	8.0N	4.0	4.0	60	4.0N	8.0N	8.0N	5.0	9.0	4.0N	8.0N
25	CA022C	800	2.0N	20N	4.0N	8.0N	4.0	4.0	62	4.0N	8.0N	8.0N	5.0	18	6.0	8.0N
26	CA023C	640	2.0N	20N	4.0N	8.0N	4.0	4.0	83	4.0N	8.0N	8.0N	5.0	47	5.0	8.0N
27	CA024CA	360	2.0N	20N	4.0N	8.0N	5.0	4.0	60	4.0N	8.0N	8.0N	4.0	41	7.0	8.0N
28	CA024CB	500	2.0N	20N	4.0N	8.0N	3.0	4.0	62	4.0N	8.0N	8.0N	5.0	12	6.0	8.0N
29	CA024CX	420	2.0N	20N	4.0N	8.0N	5.0	4.0	120	4.0N	8.0N	8.0N	6.0	12	4.0N	8.0N
30	CA024CY	240	2.0N	20N	4.0N	8.0N	4.0	4.0	160	4.0N	8.0N	8.0N	5.0	7.0	4.0N	8.0N
31	CA025C	1300	2.0N	20N	4.0N	8.0N	4.0	4.0	62	4.0N	8.0N	8.0N	5.0	5.0	4.0	8.0N
32	CA026C	950	2.0N	20N	4.0N	8.0N	4.0	4.0	50	4.0N	8.0N	8.0N	5.0	7.0	5.0	8.0N
33	CA027C	1100	2.0N	20N	4.0N	8.0N	4.0	4.0	39	4.0N	8.0N	8.0N	5.0	4.0N	6.0	8.0N
34	CA028C	1100	2.0N	20N	4.0N	8.0N	4.0	4.0	58	4.0N	8.0N	8.0N	5.0	8.0	6.0	8.0N
35	CA029C	1100	2.0N	20N	4.0N	8.0N	5.0	5.0	47	4.0N	8.0N	8.0N	6.0	8.0	5.0	8.0N
36	CA030C	590	2.0N	20N	4.0N	8.0N	3.0	3.0	73	4.0N	8.0N	8.0N	5.0	11	6.0	8.0N
37	CA031C	540	2.0N	20N	4.0N	8.0N	4.0	3.0	72	4.0N	8.0N	8.0N	4.0	9.0	4.0N	8.0N
38	CA032CA	870	2.0N	20N	4.0N	8.0N	5.0	4.0	57	4.0N	8.0N	8.0N	5.0	5.0	6.0	8.0N
39	CA032CB	550	2.0N	20N	4.0N	8.0N	3.0	3.0	54	4.0N	8.0N	8.0N	6.0	5.0	6.0	8.0N
40	CA033C	970	2.0N	20N	4.0N	8.0N	4.0	3.0	68	4.0N	8.0N	8.0N	5.0	23	9.0	8.0N

Table 12.--continued.

	Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
41	CA034C	490	2.0N	20N	4.0N	8.0N	3.0	7.0	57	4.0N	8.0N	8.0N	7.0	18	8.0	8.0N
42	CA035C	840	2.0N	20N	4.0N	8.0N	4.0	4.0	56	4.0N	8.0N	8.0N	6.0	12	6.0	8.0N
43	CA036C	1100	2.0N	20N	4.0N	8.0N	5.0	4.0	37	4.0N	8.0N	8.0N	8.0	7.0	6.0	8.0N
44	CA037C	780	2.0N	20N	4.0N	8.0N	4.0	3.0	61	4.0N	8.0N	8.0N	5.0	14	6.0	8.0N
45	CA038C	810	2.0N	20N	4.0N	8.0N	4.0	4.0	40	4.0N	8.0N	8.0N	6.0	5.0	6.0	8.0N
46	CA039C	810	2.0N	20N	4.0N	8.0N	4.0	5.0	64	4.0N	8.0N	8.0N	7.0	8.0	4.0	8.0N
47	CA040CA	400	2.0N	20N	4.0N	8.0N	4.0	5.0	63	4.0N	8.0N	8.0N	5.0	11	5.0	8.0N
48	CA040CB	430	2.0N	20N	4.0N	8.0N	4.0	4.0	45	4.0N	8.0N	8.0N	7.0	20	4.0N	8.0N
49	CA041C	920	2.0N	20N	4.0N	8.0N	4.0	4.0	63	4.0N	8.0N	8.0N	6.0	44	6.0	8.0N
50	CA041CX	300	2.0N	20N	4.0N	8.0N	4.0	7.0	210	4.0N	8.0N	8.0N	7.0	9.0	10	8.0N
51	CA042C	640	2.0N	20N	4.0N	8.0N	3.0	4.0	63	4.0N	8.0N	8.0N	6.0	18	8.0	8.0N
52	CA043C	810	2.0N	20N	4.0N	8.0N	4.0	4.0	32	4.0N	8.0N	8.0N	7.0	7.0	4.0N	8.0N
53	CA044C	540	2.0N	20N	4.0N	8.0N	3.0	3.0	78	4.0N	8.0N	8.0N	7.0	79	11	8.0N
54	CA045C	740	2.0N	20N	4.0N	8.0N	4.0	5.0	79	4.0N	8.0N	8.0N	6.0	37	6.0	8.0N
55	CA046C	710	2.0N	20N	4.0N	8.0N	4.0	5.0	120	4.0N	8.0N	8.0N	6.0	58	17	8.0N
56	CA047C	640	2.0N	20N	4.0N	8.0N	4.0	5.0	64	4.0N	8.0N	8.0N	7.0	19	7.0	8.0N
57	CA048CA	600	2.0N	20N	4.0N	8.0N	4.0	6.0	63	4.0N	8.0N	8.0N	7.0	18	8.0	8.0N
58	CA048CB	590	2.0N	20N	4.0N	8.0N	4.0	4.0	76	4.0N	8.0N	8.0N	6.0	14	8.0	8.0N
59	CA049C	600	2.0N	20N	4.0N	8.0N	3.0	6.0	76	4.0N	8.0N	8.0N	8.0	43	6.0	8.0N
60	CA050C	600	2.0N	20N	4.0N	8.0N	4.0	4.0	36	4.0N	8.0N	8.0N	6.0	7.0	6.0	8.0N
61	CA051C	410	2.0N	20N	4.0N	8.0N	4.0	5.0	55	4.0N	8.0N	8.0N	6.0	67	11	8.0N
62	CA052C	630	2.0N	20N	4.0N	8.0N	3.0	5.0	64	4.0N	8.0N	8.0N	6.0	29	7.0	8.0N
63	CA053C	710	2.0N	20N	4.0N	8.0N	3.0	4.0	41	4.0N	8.0N	8.0N	6.0	62	4.0	8.0N
64	CA054C	760	2.0N	20N	4.0N	8.0N	3.0	5.0	61	4.0N	8.0N	8.0N	7.0	22	6.0	8.0N
65	CA055C	620	2.0N	20N	4.0N	8.0N	4.0	7.0	76	4.0N	8.0N	8.0N	8.0	41	10	8.0N
66	CA055CX	230	2.0N	20N	4.0N	8.0N	3.0	6.0	61	4.0N	8.0N	8.0N	7.0	23	12	8.0N
67	CA056CA	750	2.0N	20N	4.0N	8.0N	4.0	4.0	65	4.0N	8.0N	8.0N	7.0	26	9.0	8.0N
68	CA056CB	300	2.0N	20N	4.0N	8.0N	3.0	5.0	71	4.0N	8.0N	8.0N	7.0	22	7.0	8.0N
69	CA057C	900	2.0N	20N	4.0N	8.0N	4.0	4.0	55	4.0N	8.0N	8.0N	6.0	29	7.0	8.0N
70	CA058C	310	2.0N	20N	4.0N	8.0N	4.0	4.0	45	4.0N	8.0N	8.0N	7.0	11	5.0	8.0N
71	CA059C	560	2.0N	20N	4.0N	8.0N	5.0	5.0	180	4.0N	8.0N	8.0N	7.0	70	9.0	8.0N
72	CA060C	570	2.0N	20N	4.0N	8.0N	5.0	5.0	180	4.0N	8.0N	8.0N	7.0	63	8.0	8.0N
73	CA061C	450	2.0N	20N	4.0N	8.0N	3.0	4.0	62	4.0N	8.0N	8.0N	7.0	4.0	5.0	8.0N
74	CA062C	390	2.0N	20N	4.0N	8.0N	3.0	4.0	55	4.0N	8.0N	8.0N	5.0	6.0	4.0N	8.0N
75	CA063C	790	2.0N	20N	4.0N	8.0N	4.0	3.0	56	4.0N	8.0N	8.0N	7.0	8.0	10	8.0N
76	CA064CA	760	2.0N	20N	4.0N	8.0N	4.0	4.0	76	4.0N	8.0N	8.0N	7.0	5.0	5.0	8.0N
77	CA064CB	430	2.0N	20N	4.0N	8.0N	3.0	3.0	54	4.0N	8.0N	8.0N	7.0	4.0N	5.0	8.0N
78	CA065C	620	2.0N	20N	4.0N	8.0N	4.0	5.0	61	4.0N	8.0N	8.0N	7.0	43	7.0	8.0N
79	CA066C	850	2.0N	20N	4.0N	8.0N	4.0	5.0	67	4.0N	8.0N	8.0N	6.0	18	8.0	8.0N
80	CA067C	590	2.0N	20N	4.0N	8.0N	5.0	5.0	82	4.0N	8.0N	8.0N	7.0	25	6.0	8.0N

Table 12.--continued.

	Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
81	CA068C	570	2.0N	20N	4.0N	8.0N	3.0	3.0	52	4.0N	8.0N	8.0N	7.0	16	6.0	8.0N
82	CA069C	170	2.0N	20N	4.0N	8.0N	4.0	12	52	4.0N	8.0N	8.0N	8.0	12	9.0	8.0N
83	CA070C	460	2.0N	20N	4.0N	8.0N	4.0	5.0	71	4.0N	8.0N	8.0N	6.0	11	7.0	8.0N
84	CA071C	620	2.0N	20N	4.0N	8.0N	4.0	3.0	44	4.0N	8.0N	8.0N	5.0	14	4.0	8.0N
85	CA072CA	480	2.0N	20N	4.0N	8.0N	4.0	9.0	38	4.0N	8.0N	8.0N	8.0	18	8.0	8.0N
86	CA072CB	720	2.0N	20N	4.0N	8.0N	4.0	10	56	4.0N	8.0N	8.0N	9.0	50	8.0	8.0N
87	CA073C	650	2.0N	20N	4.0N	8.0N	4.0	6.0	52	4.0N	8.0N	8.0N	8.0	24	7.0	8.0N
88	CA074C	370	2.0N	20N	4.0N	11	4.0	7.0	51	4.0N	8.0N	8.0N	10	32	8.0	8.0N
89	CA075C	570	2.0N	20N	4.0N	8.0N	4.0	11	44	4.0N	8.0N	8.0N	7.0	20	4.0	8.0N
90	CA076C	420	2.0N	20N	4.0N	8.0N	3.0	5.0	40	4.0N	8.0N	8.0N	7.0	7.0	5.0	8.0N
91	CA077C	370	2.0N	20N	4.0N	8.0N	6.0	3.0	270	4.0N	8.0N	8.0N	6.0	4.0N	7.0	8.0N
92	CA078C1	350	2.0N	20N	4.0N	8.0N	6.0	6.0	410	4.0N	8.0N	8.0N	8.0	11	6.0	8.0N
93	CA078C2	530	2.0N	20N	4.0N	8.0N	5.0	5.0	190	4.0N	8.0N	8.0N	8.0	8.0	6.0	8.0N
94	CA078C3	280	2.0N	20N	4.0N	8.0N	4.0	4.0	270	4.0N	8.0N	8.0N	6.0	21	6.0	8.0N
95	CA078C4	380	2.0N	20N	4.0N	8.0N	4.0	4.0	390	4.0N	8.0N	8.0N	6.0	27	7.0	8.0N
96	CA079C	300	2.0N	20N	4.0N	8.0N	4.0	3.0	470	4.0N	8.0N	8.0N	8.0	22	7.0	8.0N
97	CA080CA	370	2.0N	20N	4.0N	8.0N	4.0	5.0	200	4.0N	8.0N	8.0N	6.0	22	9.0	8.0N
98	CA080CB	380	2.0N	20N	4.0N	8.0N	4.0	4.0	290	4.0N	8.0N	8.0N	6.0	31	5.0	8.0N

Table 12.--continued.

	Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
1	CA001C	8.0N	21	8.0N	7.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	72
2	CA002C	8.0N	23	8.0N	6.0	20N	2200	80N	8.0N	200N	4.0N	4.0N	2.0N	90
3	CA002CX	8.0N	14	8.0N	6.0	20N	2000	80N	8.0N	200N	4.0N	4.0N	2.0N	71
4	CA003C	8.0N	57	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0N	4.0N	2.0N	100
5	CA004C	8.0N	8.0	8.0N	6.0	20N	1900	80N	8.0N	200N	4.0N	4.0N	2.0N	100
6	CA005C	8.0N	18	8.0N	7.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	92
7	CA006C	8.0N	18	8.0N	7.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	110
8	CA007C	8.0N	21	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	120
9	CA008C	8.0N	35	8.0N	7.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	120
10	CA009C	8.0N	20	8.0N	7.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	86
11	CA010CA	8.0N	26	8.0N	8.0	20N	2800	80N	8.0N	200N	4.0N	4.0N	2.0N	63
12	CA010CB	9.0	24	8.0N	8.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	92
13	CA011C	8.0N	18	8.0N	7.0	20N	2200	80N	8.0N	200N	4.0N	4.0N	2.0N	61
14	CA012C	8.0N	26	8.0N	7.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	72
15	CA013C	8.0N	23	8.0N	8.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	130
16	CA014C	8.0N	15	8.0N	6.0	20N	2100	80N	8.0N	200N	4.0N	4.0N	2.0N	110
17	CA015C	8.0N	24	8.0N	7.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	120
18	CA016CA	8.0N	26	8.0N	9.0	20N	3100	80N	8.0N	200N	4.0N	4.0N	2.0N	96
19	CA016CB	8.0	26	8.0N	6.0	20N	2000	80N	8.0N	200N	4.0N	4.0N	2.0N	100
20	CA017C	8.0N	39	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0N	4.0N	2.0N	65
21	CA018C	8.0N	32	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	130
22	CA019C	8.0N	27	8.0N	7.0	20N	2500	80N	8.0N	200N	4.0N	4.0N	2.0N	120
23	CA020C	8.0N	15	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	85
24	CA021C	8.0N	19	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	78
25	CA022C	8.0N	15	8.0N	8.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	87
26	CA023C	8.0N	15	8.0N	8.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	87
27	CA024CA	8.0N	28	8.0N	10	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	130
28	CA024CB	8.0N	22	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	200
29	CA024CX	8.0N	22	8.0N	7.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	100
30	CA024CY	8.0N	15	8.0N	4.0	20N	1300	80N	8.0N	200N	4.0N	4.0N	2.0N	79
31	CA025C	8.0N	24	8.0N	6.0	20N	2000	80N	8.0N	200N	4.0N	4.0N	2.0N	120
32	CA026C	8.0N	13	8.0N	12	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	100
33	CA027C	8.0N	12	8.0N	6.0	20N	2200	80N	8.0N	200N	4.0N	4.0N	2.0N	100
34	CA028C	8.0N	16	8.0N	14	20N	5000	80N	8.0N	200N	4.0N	4.0N	2.0N	100
35	CA029C	8.0N	19	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	100
36	CA030C	8.0N	18	8.0N	14	20N	5100	80N	8.0N	200N	4.0N	4.0N	2.0N	120
37	CA031C	8.0N	18	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0N	4.0N	2.0N	130
38	CA032CA	8.0N	14	8.0N	6.0	20N	2000	80N	8.0N	200N	4.0N	4.0N	2.0N	130
39	CA032CB	8.0N	14	8.0N	5.0	20N	1700	80N	8.0N	200N	4.0N	4.0N	2.0N	140
40	CA033C	8.0N	17	8.0N	15	20N	5800	80N	8.0N	200N	4.0N	4.0N	2.0N	100

Table 12.--continued.

	Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
41	CA034C	8.0N	15	8.0N	20	20N	7200	80N	8.0N	200N	4.0	4.0N	2.0N	140
42	CA035C	8.0N	26	8.0N	14	20N	5100	80N	8.0N	200N	4.0N	4.0N	2.0N	120
43	CA036C	8.0N	14	8.0N	5.0	20N	1600	80N	8.0N	200N	4.0N	4.0N	2.0N	110
44	CA037C	8.0N	18	8.0N	9.0	20N	3400	80N	8.0N	200N	4.0N	4.0N	2.0N	87
45	CA038C	8.0N	13	8.0N	4.0N	20N	1300	80N	8.0N	200N	4.0N	4.0N	2.0N	120
46	CA039C	8.0N	17	8.0N	8.0	20N	2800	80N	8.0N	200N	4.0N	4.0N	2.0N	99
47	CA040CA	8.0N	19	8.0N	8.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	120
48	CA040CB	8.0N	21	8.0N	8.0	20N	2800	80N	8.0N	200N	4.0N	4.0N	2.0N	100
49	CA041C	8.0N	26	8.0N	11	20N	4000	80N	8.0N	200N	4.0N	4.0N	2.0N	89
50	CA041CX	8.0N	21	8.0N	9.0	20N	3200	80N	8.0N	200N	5.0	4.0N	2.0N	130
51	CA042C	8.0N	24	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	200
52	CA043C	11	15	8.0N	10	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	72
53	CA044C	8.0N	49	8.0N	13	20N	4900	80N	8.0N	200N	4.0N	4.0N	2.0N	120
54	CA045C	8.0	19	8.0N	15	20N	5400	80N	8.0N	200N	4.0	4.0N	2.0N	120
55	CA046C	8.0	32	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	150
56	CA047C	11	45	8.0N	27	20N	10000	80N	8.0N	200N	4.0N	4.0N	2.0N	160
57	CA048CA	8.0N	27	8.0N	12	20N	4300	80N	8.0N	200N	4.0	4.0N	2.0N	140
58	CA048CB	8.0N	21	8.0N	13	20N	4800	80N	8.0N	200N	4.0N	4.0N	2.0N	150
59	CA049C	8.0N	14	8.0N	15	20N	5300	80N	8.0N	200N	5.0	4.0N	2.0N	110
60	CA050C	8.0N	22	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	110
61	CA051C	8.0	17	9.0	15	20N	5500	80N	8.0N	200N	4.0	4.0N	2.0N	150
62	CA052C	8.0N	22	8.0N	16	20N	6100	80N	8.0N	200N	4.0N	4.0N	2.0N	160
63	CA053C	8.0	13	8.0N	14	20N	5200	80N	8.0N	200N	4.0N	4.0N	2.0N	100
64	CA054C	8.0N	23	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0N	4.0N	2.0N	100
65	CA055C	10	18	8.0N	10	20N	3500	80N	8.0N	200N	5.0	4.0N	2.0N	80
66	CA055CX	9.0	16	8.0N	11	20N	4000	80N	8.0N	200N	5.0	4.0N	2.0N	180
67	CA056CA	8.0N	22	8.0N	18	20N	6700	80N	8.0N	200N	4.0N	4.0N	2.0N	110
68	CA056CB	8.0N	16	8.0N	16	20N	5700	80N	8.0N	200N	4.0N	4.0N	2.0N	87
69	CA057C	8.0N	16	8.0N	33	20N	12000	80N	8.0N	200N	4.0N	4.0N	2.0N	120
70	CA058C	8.0N	17	8.0N	7.0	20N	2500	80N	8.0N	200N	4.0N	4.0N	2.0N	140
71	CA059C	8.0N	31	8.0N	6.0	20N	2200	80N	8.0N	200N	4.0N	4.0N	2.0N	84
72	CA060C	11	26	8.0N	8.0	20N	2700	80N	8.0N	200N	6.0	4.0N	2.0N	93
73	CA061C	8.0N	11	8.0N	4.0	20N	1300	80N	8.0N	200N	4.0N	4.0N	2.0N	130
74	CA062C	8.0	14	8.0N	5.0	20N	1700	80N	8.0N	200N	4.0N	4.0N	2.0N	130
75	CA063C	12	24	8.0N	7.0	20N	2500	80N	8.0N	200N	4.0N	4.0N	2.0N	120
76	CA064CA	8.0N	20	8.0N	6.0	20N	1900	80N	8.0N	200N	4.0N	4.0N	2.0N	160
77	CA064CB	8.0N	16	8.0N	5.0	20N	1700	80N	8.0N	200N	4.0N	4.0N	2.0N	110
78	CA065C	8.0N	21	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0	4.0N	2.0N	74
79	CA066C	8.0	32	8.0N	18	20N	6700	80N	8.0N	200N	4.0N	4.0N	2.0N	140
80	CA067C	8.0N	43	8.0N	10	20N	3400	80N	8.0N	200N	5.0	4.0N	2.0N	160

Table 12.--continued.

	Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
81	CA068C	9.0	20	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	93
82	CA069C	8.0N	24	8.0N	8.0	20N	2600	80N	8.0N	200N	6.0	4.0N	2.0N	160
83	CA070C	8.0N	45	8.0N	11	20N	3700	80N	8.0N	200N	4.0N	4.0N	2.0N	120
84	CA071C	8.0N	27	8.0N	18	20N	6800	80N	8.0N	200N	4.0N	4.0N	2.0N	120
85	CA072CA	8.0N	32	8.0N	19	20N	6800	80N	8.0N	200N	5.0	4.0N	2.0N	84
86	CA072CB	8.0N	42	8.0N	28	20N	10000	80N	8.0N	200N	8.0	4.0N	2.0N	130
87	CA073C	13	40	8.0N	14	20N	5000	80N	8.0N	200N	6.0	4.0N	2.0N	73
88	CA074C	10	28	8.0N	11	20N	3800	80N	8.0N	200N	6.0	4.0N	2.0N	120
89	CA075C	8.0N	23	8.0N	9.0	20N	3000	80N	8.0N	200N	4.0N	4.0N	2.0N	140
90	CA076C	8.0N	17	8.0N	8.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	96
91	CA077C	8.0N	11	8.0N	4.0N	20N	940	80N	8.0N	200N	4.0N	4.0N	2.0N	95
92	CA078C1	8.0N	10	8.0N	7.0	20N	2200	80N	8.0N	200N	5.0	4.0N	2.0N	81
93	CA078C2	8.0N	21	8.0N	6.0	20N	2000	80N	8.0N	200N	4.0N	4.0N	2.0N	97
94	CA078C3	8.0N	23	8.0N	9.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	87
95	CA078C4	8.0N	17	8.0N	11	20N	3800	80N	8.0N	200N	4.0N	4.0N	2.0N	58
96	CA079C	8.0N	7.0	8.0N	12	20N	4500	80N	8.0N	200N	4.0N	4.0N	2.0N	76
97	CA080CA	8.0N	12	8.0N	9.0	20N	3000	80N	8.0N	200N	4.0N	4.0N	2.0N	82
98	CA080CB	8.0N	20	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	100

Table 12.--continued.

	Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
1	CA001C	.001	.15N	2.0N	.50N	2.0N	.68	150	6.9	3.1	2.0N	71
2	CA002C	.001N	.15N	2.0N	.50N	2.0N	.44	160	6.7	2.0N	2.0N	87
3	CA002CX	.001N	.15N	2.0N	.50N	2.0N	.68	100	5.6	3.5	2.0N	69
4	CA003C	.001N	.15N	2.0N	.50N	2.0N	1.3	120	6.4	2.9	2.0N	100
5	CA004C	.001N	.15N	2.0N	.50N	2.0N	.33	260	6.6	2.0N	2.0N	99
6	CA005C	.001N	.15N	2.0N	.50N	2.0N	.41	47	5.6	2.9	2.0N	91
7	CA006C	.001N	.15N	2.0N	.50N	2.0N	.74	68	4.9	3.4	2.0N	110
8	CA007C	.001N	.15N	2.0N	.50N	2.0N	.87	49	5.8	3.0	2.0N	120
9	CA008C	.001N	.15N	2.0N	.50N	2.0N	.92	81	4.9	4.0	2.0N	110
10	CA009C	.001N	.15N	2.0N	.50N	2.0N	.82	53	5.8	2.3	2.0N	84
11	CA010CA	.003	.15N	2.0N	.50N	2.0N	.62	94	6.9	3.1	2.0N	64
12	CA010CB	.002	.15N	2.0N	.50N	2.0N	.86	90	8.4	3.4	2.0N	91
13	CA011C	.001N	.15N	2.0N	.50N	2.0N	.72	61	4.0	3.0	2.0N	64
14	CA012C	.001N	.15N	2.0N	.50N	2.0N	1.0	100	5.7	2.6	2.0N	72
15	CA013C	.001N	.15N	2.0N	.50N	2.0N	.54	85	8.0	3.0	2.0N	130
16	CA014C	.001N	.15N	2.0N	.50N	2.0N	.32	59	6.5	3.3	2.0N	100
17	CA015C	.001N	.15N	2.0N	.50N	2.0N	.59	84	6.9	3.7	2.0N	120
18	CA016CA	.001N	.15N	2.0N	.50N	2.0N	.42	100	12	2.7	2.0N	96
19	CA016CB	.001	.15N	2.0N	.50N	2.0N	.58	120	4.7	4.7	2.0N	100
20	CA017C	.001N	.15N	2.0N	.50N	2.0N	1.5	120	7.1	3.0	2.0N	65
21	CA018C	.001N	.15N	2.0N	.50N	2.0N	.75	99	5.9	2.5	2.0N	120
22	CA019C	.001N	.15N	2.0N	.50N	2.0N	.81	81	3.8	2.2	2.0N	120
23	CA020C	.001N	.15N	2.0N	.50N	2.0N	.82	76	6.9	2.7	2.0N	85
24	CA021C	.001N	.15N	2.0N	.50N	2.0N	.54	63	4.6	3.0	2.0N	79
25	CA022C	.001N	.15N	2.0N	.50N	2.0N	.28	67	7.4	2.9	2.0N	89
26	CA023C	.006	.15N	2.0N	.50N	2.0N	.26	89	7.6	3.6	2.0N	92
27	CA024CA	.001N	.15N	2.0N	.50N	2.0N	2.2	66	9.9	3.4	2.0N	120
28	CA024CB	.001	.15N	2.0N	.50N	2.0N	.46	63	7.6	3.5	2.0N	190
29	CA024CX	.001N	.15N	2.0N	.50N	2.0N	.47	130	4.4	3.0	2.0N	94
30	CA024CY	.001N	.15N	2.0N	.50N	2.0N	.80	160	2.7	2.6	2.0N	75
31	CA025C	.001N	.15N	2.0N	.50N	2.0N	.65	65	6.2	2.8	2.0N	120
32	CA026C	.001N	.15N	2.0N	.50N	2.0N	.58	52	6.2	2.7	2.0N	100
33	CA027C	.001N	.15N	2.0N	.50N	2.0N	.36	38	7.7	2.7	2.0N	96
34	CA028C	.001N	.15N	2.0N	.50N	2.0N	.39	60	7.4	3.1	2.0N	97
35	CA029C	.001N	.15N	2.0N	.50N	2.0N	.58	47	5.9	2.3	2.0N	95
36	CA030C	.001N	.15N	2.0N	.50N	2.0N	.72	78	8.2	3.0	2.0N	120
37	CA031C	.001	.15N	2.0N	.50N	2.0N	.89	77	5.7	3.3	2.0N	130
38	CA032CA	.002	.15N	2.0N	.50N	2.0N	.50	57	8.1	3.6	2.0N	120
39	CA032CB	.001N	.15N	2.0N	.50N	2.0N	.39	60	8.1	3.5	2.0N	130
40	CA033C	.001N	.15N	2.0N	.50N	2.0N	.79	74	12	3.7	2.0N	100

Table 12.--continued.

	Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
41	CA034C	.001N	.15N	2.0N	.50N	2.0N	.68	66	8.5	4.2	2.0N	130
42	CA035C	.001	.15N	2.0N	.50N	2.0N	.33	56	8.5	3.0	2.0N	110
43	CA036C	.001N	.15N	2.0N	.50N	2.0N	.71	39	7.4	3.0	2.0N	100
44	CA037C	.001N	.15N	2.0N	.50N	2.0N	.64	63	8.2	2.8	2.0N	84
45	CA038C	.001N	.15N	2.0N	.50N	2.0N	.88	42	6.9	2.4	2.0N	110
46	CA039C	.001N	.15N	2.0N	.50N	2.0N	.48	67	5.6	3.6	2.0N	96
47	CA040CA	.001N	.15N	2.0N	.50N	2.0N	1.5	66	6.4	3.3	2.0N	100
48	CA040CB	.001N	.15N	2.0N	.50N	2.0N	.92	48	4.6	4.2	2.0N	110
49	CA041C	.001N	.15N	2.0N	.50N	2.0N	.66	66	7.9	2.9	2.0N	87
50	CA041CX	.001N	.15N	2.0N	.50N	2.0N	.25	210	12	3.6	2.0N	110
51	CA042C	.001N	.15N	2.0N	.50N	2.0N	.74	67	9.1	2.6	2.0N	180
52	CA043C	.001N	.15N	2.0N	.50N	2.0N	.50	32	4.3	2.8	2.0N	69
53	CA044C	.001N	.15N	2.0N	.50N	2.0N	1.2	83	13	3.4	2.0N	110
54	CA045C	.001N	.15N	2.0N	.50N	2.0N	.65	83	6.5	2.9	2.0N	110
55	CA046C	.001	.15N	2.0N	.50N	2.0N	.85	130	21	2.5	2.0N	140
56	CA047C	.001N	.15N	2.0N	.50N	2.0N	.59	65	8.7	2.8	2.0N	150
57	CA048CA	.001N	.15N	2.0N	.50N	2.0N	1.1	66	9.1	4.1	2.0N	130
58	CA048CB	.001	.15N	2.0N	.50N	2.0N	1.0	82	11	2.8	2.0N	150
59	CA049C	.001N	.15N	2.0N	.50N	2.0N	.62	79	7.5	4.5	2.0N	100
60	CA050C	.001N	.15N	2.0N	.50N	2.0N	.48	38	7.4	3.2	2.0N	100
61	CA051C	.001N	.15N	2.0N	.50N	2.0N	.65	55	11	3.2	2.0N	130
62	CA052C	.001N	.15N	2.0N	.50N	2.0N	.51	68	7.3	3.2	2.0N	150
63	CA053C	.001N	.15N	2.0N	.50N	2.0N	.38	40	5.0	3.1	2.0N	95
64	CA054C	.001N	.15N	2.0N	.50N	2.0N	.54	62	6.9	3.6	2.0N	97
65	CA055C	.001N	.15N	2.0N	.50N	2.0N	1.3	71	11	3.9	2.0N	73
66	CA055CX	.001N	.15N	2.0N	.50N	2.0N	.36	59	14	4.1	2.0N	150
67	CA056CA	.001N	.15N	2.0N	.50N	2.0N	.84	63	10	3.3	2.0N	96
68	CA056CB	.001N	.15N	2.0N	.50N	2.0N	.54	76	6.9	3.9	2.0N	81
69	CA057C	.001N	.15N	2.0N	.50N	2.0N	1.0	57	8.1	3.7	2.0N	120
70	CA058C	.001N	.15N	2.0N	.50N	2.0N	.91	45	5.8	5.5	2.0N	130
71	CA059C	.001N	.15N	2.0N	.50N	2.0N	.72	190	11	3.4	2.0N	79
72	CA060C	.001N	.15N	2.0N	.50N	2.0N	.35	190	9.3	4.4	2.0N	87
73	CA061C	.001N	.15N	2.0N	.50N	2.0N	.38	64	5.6	3.5	2.0N	120
74	CA062C	.001N	.15N	2.0N	.50N	2.0N	1.1	55	4.5	3.5	2.0N	120
75	CA063C	.001N	.15N	2.0N	.50N	2.0N	.46	58	11	2.7	2.0N	110
76	CA064CA	.001N	.15N	2.0N	.50N	2.0N	.55	77	6.6	3.6	2.0N	150
77	CA064CB	.001N	.15N	2.0N	.50N	2.0N	.32	59	6.7	2.9	2.0N	110
78	CA065C	.001N	.15N	2.0N	.50N	2.0N	.65	63	7.9	4.2	2.0N	71
79	CA066C	.001N	.15N	2.0N	.50N	2.0N	1.1	69	10	3.6	2.0N	130
80	CA067C	.001N	.15N	2.0N	.50N	2.0N	.40	85	7.5	4.8	2.0N	150

Table 12.--continued.

Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
81 CA068C	.001N	.15N	2.0N	.50N	2.0N	.94	54	6.1	3.3	2.0N	88
82 CA069C	.001N	.15N	2.0N	.50N	2.0N	.72	52	11	5.4	2.0N	140
83 CA070C	.001N	.15N	2.0N	.50N	2.0N	.59	77	7.6	3.2	2.0N	100
84 CA071C	.001N	.15N	2.0N	.50N	2.0N	.39	46	5.8	3.3	2.0N	110
85 CA072CA	.001	.15N	2.0N	.50N	2.0N	.70	37	8.4	4.6	2.0N	79
86 CA072CB	.001N	.15N	2.0N	.50N	2.0N	.44	58	9.9	5.2	2.0N	130
87 CA073C	.001	.15N	2.0N	.50N	2.0N	.81	54	7.7	4.9	2.0N	69
88 CA074C	.001N	.15N	2.0N	.50N	2.0N	.59	51	9.0	5.4	2.0N	110
89 CA075C	.001N	.15N	2.0N	.50N	2.0N	.71	45	5.0	4.7	2.0N	130
90 CA076C	.001N	.15N	2.0N	.50N	2.0N	.96	41	5.7	2.9	2.0N	98
91 CA077C	.001N	.15N	2.0N	.50N	2.5	.63	290	8.4	2.0N	2.0N	96
92 CA078C1	.001N	.15N	2.0N	.50N	3.3	.95	450	8.0	4.8	2.0N	83
93 CA078C2	.001N	.15N	2.0N	.50N	2.0N	1.2	210	6.6	2.8	2.0N	100
94 CA078C3	.001N	.15N	2.0N	.50N	2.0N	.41	280	6.4	2.3	2.0N	96
95 CA078C4	.001N	.15N	2.0N	.50N	2.4	.46	430	8.6	2.0N	2.0N	60
96 CA079C	.001N	.15N	2.0N	.50N	2.9	.18	490	7.1	2.0N	2.0N	78
97 CA080CA	.005	.15N	2.0N	.50N	2.0N	.53	210	11	2.8	2.0N	73
98 CA080CB	.001N	.15N	2.0N	.50N	2.0N	.42	310	5.1	2.6	2.0N	100

Table 13.--Basic statistics for 98 creosote-bush samples from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, Arizona. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -G, graphite furnace atomic absorption; -C, 40-element inductively coupled plasma-atomic emission spectrometry; -I, 10-element inductively coupled plasma-atomic emission spectrometry]

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	ASH PCT	6.9	10	8.5	.67	98	0	0	0	0
2	AL PCT-C	.15	.68	.29	.087	98	0	0	0	0
3	CA PCT-C	16	26	21	1.9	98	0	0	0	0
4	FE PCT-C	.11	.37	.19	.045	98	0	0	0	0
5	K PCT-C	11	23	18	2.8	98	0	0	0	0
6	MG PCT-C	1.6	4.5	2.7	.56	98	0	0	0	0
7	NA PCT-C	.09	.76	.21	.11	98	0	0	0	0
8	P PCT-C	.90	2.2	1.5	.27	98	0	0	0	0
9	TI PCT-C	.01	.04	.018	.0065	97	0	0	1	0
10	MN PPM-C	260	850	470	120	98	0	0	0	0
11	AG PPM-C	---	---	---	---	0	0	0	98	0
12	AS PPM-C	---	---	---	---	0	0	0	98	0
13	AU PPM-C	---	---	---	---	0	0	0	98	0
14	BA PPM-C	170	1300	610	230	98	0	0	0	0
15	BE PPM-C	---	---	---	---	0	0	0	98	0
16	BI PPM-C	---	---	---	---	0	0	0	98	0
17	CD PPM-C	---	---	---	---	0	0	0	98	0
18	CE PPM-C	11	12	12	.71	2	0	0	96	0
19	CO PPM-C	3.0	6.0	4.0	.70	98	0	0	0	0
20	CR PPM-C	2.0	12	4.5	1.6	97	0	0	1	0
21	CU PPM-C	32	470	94	79	98	0	0	0	0
22	EU PPM-C	---	---	---	---	0	0	0	98	0
23	GA PPM-C	---	---	---	---	0	0	0	98	0
24	HO PPM-C	---	---	---	---	0	0	0	98	0
25	LA PPM-C	4.0	10	6.1	1.2	98	0	0	0	0
26	LI PPM-C	4.0	79	21	17	95	0	0	3	0
27	MO PPM-C	4.0	17	6.6	2.1	86	0	0	12	0
28	NB PPM-C	---	---	---	---	0	0	0	98	0
29	ND PPM-C	8.0	13	9.5	1.6	17	0	0	81	0
30	NI PPM-C	7.0	57	22	9.0	98	0	0	0	0
31	PB PPM-C	9.0	9.0	9.0	---	1	0	0	97	0
32	SC PPM-C	4.0	33	10	5.0	96	0	0	2	0
33	SN PPM-C	---	---	---	---	0	0	0	98	0
34	SR PPM-C	940	12000	3600	1900	98	0	0	0	0
35	TA PPM-C	---	---	---	---	0	0	0	98	0

Table 13.--continued.

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
36	TH PPM-C	---	---	---	---	0	0	0	98	0
37	U PPM-C	---	---	---	---	0	0	0	98	0
38	V PPM-C	4.0	8.0	5.1	1.1	17	0	0	81	0
39	Y PPM-C	---	---	---	---	0	0	0	98	0
40	YB PPM-C	---	---	---	---	0	0	0	98	0
41	ZN PPM-C	58	200	110	29	98	0	0	0	0
42	AU PPM-G	.001	.006	.0019	.0016	14	0	0	84	0
43	AG PPM-I	---	---	---	---	0	0	0	98	0
44	AS PPM-I	---	---	---	---	0	0	0	98	0
45	AU PPM-I	---	---	---	---	0	0	0	98	0
46	BI PPM-I	2.4	3.3	2.8	.41	4	0	0	94	0
47	CD PPM-I	.18	2.2	.68	.31	98	0	0	0	0
48	CU PPM-I	32	490	98	85	98	0	0	0	0
49	MO PPM-I	2.7	21	7.6	2.6	98	0	0	0	0
50	PB PPM-I	2.2	5.5	3.4	.75	93	0	0	5	0
51	SB PPM-I	---	---	---	---	0	0	0	98	0
52	ZN PPM-I	60	190	100	25	98	0	0	0	0

Table 14.--Results of analyses of blue palo verde (Cercidium floridum Benth.) and little-leaf palo verde (C. microphyllum [Torr.]) samples from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, AZ. [N, not detected at indicated detection limit]

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
1	CA001M	340505	1135443	5.8	.11	23	.11	13	5.3	.07	2.8	.01N	450	4.0N	20N	20N
2	CA002M	340500	1135519	6.7	.08	25	.08	13	4.1	.07	2.8	.01N	400	4.0N	20N	20N
3	CA003M	340501	1135509	5.1	.06	20	.07	21	3.5	.08	2.1	.01N	490	4.0N	20N	20N
4	CA004M	340552	1135541	6.5	.06	26	.06	15	2.8	.06	1.9	.01N	130	4.0N	20N	20N
5	CA005F	340409	1135540	8.0	.06	19	.06	20	6.0	.05	2.2	.01N	330	4.0N	20N	20N
6	CA006F	340315	1135656	6.6	.11	18	.11	19	6.9	.08	3.1	.01N	460	4.0N	20N	20N
7	CA007F	340344	1135619	6.9	.08	18	.08	19	6.9	.05	2.8	.01N	610	4.0N	20N	20N
8	CA008F	340308	1135419	6.9	.09	17	.09	20	6.8	.06	3.4	.01N	310	4.0N	20N	20N
9	CA009F	340309	1135503	6.9	.05	18	.06	19	7.7	.03	2.6	.01N	260	4.0N	20N	20N
10	CA010FA	340232	1135529	6.8	.11	26	.08	12	4.5	.07	1.8	.01N	260	4.0N	20N	20N
11	CA010FB	340232	1135529	6.0	.11	22	.09	17	4.2	.14	2.1	.01N	250	4.0N	20N	20N
12	CA011M	340203	1135622	7.3	.09	24	.07	13	4.9	.07	3.2	.01N	270	4.0N	20N	20N
13	CA012M	340148	1135656	5.3	.14	27	.09	9.8	5.1	.20	1.4	.01N	570	4.0N	20N	20N
14	CA013M	340044	1135855	5.0	.08	25	.06	14	4.2	.08	1.7	.01N	390	4.0N	20N	20N
15	CA014M	340019	1135927	6.8	.10	25	.08	14	3.5	.08	2.2	.01N	190	4.0N	20N	20N
16	CA015M	340103	1135740	8.0	.14	25	.10	13	4.2	.13	1.6	.01N	380	4.0N	20N	20N
17	CA016MA	340110	1135617	5.6	.15	20	.12	20	3.7	.14	2.0	.01N	450	4.0N	20N	20N
18	CA016MB	340110	1135617	4.7	.08	20	.07	20	4.6	.08	2.2	.01N	290	4.0N	20N	20N
19	CA017M	340127	1135925	6.1	.06	25	.06	14	4.8	.07	1.4	.01N	210	4.0N	20N	20N
20	CA018F	340526	1135604	6.9	.07	16	.08	22	6.5	.04	3.4	.01N	340	4.0N	20N	20N
21	CA019F	340506	1135615	6.9	.07	18	.08	22	6.2	.05	3.3	.01N	320	4.0N	20N	20N
22	CA020F	340423	1135810	5.8	.09	17	.10	21	6.1	.06	3.4	.01N	380	4.0N	20N	20N
23	CA021F	340345	1135854	9.2	.06	24	.05	13	5.0	.06	1.4	.01N	560	4.0N	20N	20N
24	CA022M	340603	1135731	6.3	.05	24	.04	15	4.2	.07	1.5	.01N	170	4.0N	20N	20N
25	CA023M	340538	1135800	7.2	.11	27	.08	13	3.7	.08	.97	.01N	140	4.0N	20N	20N
26	CA024FA	340126	1140505	6.9	.08	17	.07	20	7.9	.06	2.5	.01N	320	4.0N	20N	20N
27	CA024FB	340126	1140505	8.8	.10	21	.08	17	5.6	.06	2.0	.01N	230	4.0N	20N	20N
28	CA025F	340207	1140426	6.9	.07	20	.07	20	4.9	.05	2.9	.01N	310	4.0N	20N	20N
29	CA026F	340321	1140352	10	.07	24	.06	16	4.0	.04	1.6	.01N	290	4.0N	20N	20N
30	CA027F	340247	1140411	8.2	.07	20	.07	19	5.3	.07	2.8	.01N	300	4.0N	20N	20N
31	CA028F	340324	1140500	7.7	.05	19	.06	19	6.0	.05	2.8	.01N	450	4.0N	20N	20N
32	CA029F	340238	1140509	9.0	.07	21	.06	17	6.4	.05	2.1	.01N	360	4.0N	20N	20N
33	CA030M	340437	1140057	5.7	.14	18	.11	24	2.9	.15	2.8	.01N	360	4.0N	20N	20N
34	CA031F	340346	1140215	9.4	.10	21	.08	20	4.7	.05	2.2	.01N	300	4.0N	20N	20N
35	CA032FA	340244	1140318	8.7	.05	22	.05	20	4.1	.04	1.9	.01N	350	4.0N	20N	20N
36	CA032FB	340244	1140318	8.6	.07	24	.06	15	5.1	.06	2.3	.01N	360	4.0N	20N	20N
37	CA033F	340108	1140340	12	.06	23	.05	18	4.2	.04	1.1	.01N	170	4.0N	20N	20N
38	CA034F	340011	1140344	8.9	.07	21	.06	17	5.2	.04	1.9	.01N	310	4.0N	20N	20N
39	CA035F	340009	1140246	8.2	.05	21	.05	19	5.7	.05	2.3	.01N	260	4.0N	20N	20N
40	CA036F	340050	1140221	7.1	.07	18	.07	23	5.1	.03	2.7	.01N	290	4.0N	20N	20N

Table 14.--continued.

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
41	CA037F	340238	1140157	7.6	.08	18	.08	21	6.9	.05	2.5	.01N	430	4.0N	20N	20N
42	CA038F	340145	1140158	6.8	.07	20	.07	20	5.5	.04	2.2	.01N	280	4.0N	20N	20N
43	CA039F	340226	1140048	7.6	.07	18	.06	24	4.6	.10	2.4	.01N	240	4.0N	20N	20N
44	CA040FA	340129	1140022	7.7	.10	17	.10	22	5.3	.04	2.4	.01N	380	4.0N	20N	20N
45	CA040FB	340129	1140022	6.1	.12	15	.09	24	6.6	.06	2.5	.01N	400	4.0N	20N	20N
46	CA041M	335954	1140102	7.1	.06	19	.06	22	5.3	.06	2.1	.01N	310	4.0N	20N	20N
47	CA044M	340350	1140958	6.2	.13	24	.11	16	4.1	.19	1.2	.01N	210	4.0N	20N	20N
48	CA045F	335956	1140953	6.4	.08	15	.08	26	5.6	.09	2.8	.01N	380	4.0N	20N	20N
49	CA046F	340315	1140729	6.7	.05	15	.06	27	5.3	.06	2.5	.01N	200	4.0N	20N	20N
50	CA047F	340307	1140634	8.1	.09	20	.08	18	7.0	.05	2.7	.01N	390	4.0N	20N	20N
51	CA048FA	340213	1140655	9.7	.09	23	.08	17	4.7	.04	1.6	.01N	280	4.0N	20N	20N
52	CA048FB	340213	1140655	6.5	.10	17	.09	25	4.5	.06	2.8	.01N	290	4.0N	20N	20N
53	CA049F	335941	1140722	8.8	.11	18	.09	22	5.8	.05	2.1	.01N	430	4.0N	20N	20N
54	CA050F	340003	1140610	8.1	.09	21	.08	17	5.7	.04	2.1	.01N	310	4.0N	20N	20N
55	CA051F	340051	1140653	6.8	.07	19	.08	21	5.4	.06	2.5	.01N	330	4.0N	20N	20N
56	CA052F	340131	1140707	7.2	.12	20	.10	18	7.2	.09	2.2	.01N	190	4.0N	20N	20N
57	CA053F	340114	1140619	7.7	.07	17	.07	22	6.7	.04	1.8	.01N	240	4.0N	20N	20N
58	CA054F	340043	1140536	6.5	.10	18	.08	21	6.0	.08	2.4	.01N	270	4.0N	20N	20N
59	CA055F	335935	1140453	7.0	.08	19	.08	21	5.9	.07	2.1	.01N	340	4.0N	20N	20N
60	CA056FA	340007	1141136	8.1	.07	19	.07	21	5.2	.05	2.7	.01N	510	4.0N	20N	20N
61	CA056FB	340007	1141136	8.4	.10	21	.09	20	5.1	.08	2.6	.01N	390	4.0N	20N	20N
62	CA057F	340301	1140753	8.4	.11	22	.10	17	4.1	.07	1.8	.01N	460	4.0N	20N	20N
63	CA058M	340607	1140843	7.7	.12	24	.09	17	3.4	.11	1.6	.01N	330	4.0N	20N	20N
64	CA059M	340633	1135756	7.0	.13	27	.10	9.3	5.1	.13	1.0	.01N	220	4.0N	20N	20N
65	CA060M	340555	1135837	6.4	.08	24	.07	15	4.7	.07	1.1	.01N	180	4.0N	20N	20N
66	CA061M	340523	1135913	5.9	.09	28	.08	12	2.6	.08	1.3	.01N	220	4.0N	20N	20N
67	CA062M	340451	1135859	5.8	.08	26	.08	9.6	5.6	.08	1.9	.01N	330	4.0N	20N	20N
68	CA063F	340457	1140012	6.4	.09	18	.09	19	7.1	.06	2.4	.01N	340	4.0N	20N	20N
69	CA063M	340457	1140012	6.5	.10	22	.07	14	5.6	.10	1.5	.01N	320	4.0N	20N	20N
70	CA064FA	340510	1140117	8.2	.06	22	.07	18	5.5	.05	2.2	.01N	200	4.0N	20N	20N
71	CA064FB	340510	1140117	8.9	.05	20	.06	21	5.2	.04	1.9	.01N	260	4.0N	20N	20N
72	CA064M	340510	1140117	7.8	.08	30	.06	8.4	2.8	.11	1.2	.01N	160	4.0N	20N	20N
73	CA065M	340535	1140228	8.0	.15	26	.11	14	4.0	.14	1.3	.01N	270	4.0N	20N	20N
74	CA066F	340532	1140316	8.8	.07	16	.06	23	5.2	.07	2.1	.01N	440	4.0N	20N	20N
75	CA067F	340603	1140353	7.4	.08	15	.08	23	7.4	.06	2.0	.01N	370	4.0N	20N	20N
76	CA068F	340614	1140444	5.2	.10	16	.09	25	4.9	.05	2.7	.01N	730	4.0N	20N	20N
77	CA068M	340614	1140444	6.7	.10	23	.09	18	3.9	.09	2.2	.01N	410	4.0N	20N	20N
78	CA069M	340604	1140506	6.8	.11	25	.09	13	4.8	.28	1.2	.01N	200	4.0N	20N	20N
79	CA070M	340605	1140650	6.9	.10	23	.08	17	3.5	.11	1.3	.01N	280	4.0N	20N	20N
80	CA071F	340518	1140643	7.3	.10	16	.08	27	5.0	.07	2.9	.01N	360	4.0N	20N	20N

Table 14.--continued.

	Field #	Latitude	Longitude	Ash %	Al %-C	Ca %-C	Fe %-C	K %-C	Mg %-C	Na %-C	P %-C	Ti %-C	Mn ppm-C	Ag ppm-C	As ppm-C	Au ppm-C
81	CA072FA	340634	1140716	7.9	.11	19	.09	20	6.0	.04	2.2	.01N	390	4.0N	20N	20N
82	CA072FB	340634	1140716	6.9	.08	17	.06	22	5.9	.10	2.1	.01N	490	4.0N	20N	20N
83	CA072MA	340634	1140716	7.0	.10	27	.08	13	3.2	.12	1.5	.01N	340	4.0N	20N	20N
84	CA073F	340730	1141026	6.3	.07	16	.07	23	5.6	.05	1.9	.01N	370	4.0N	20N	20N
85	CA073M	340730	1141026	7.1	.11	27	.08	12	2.8	.17	1.6	.01N	380	4.0N	20N	20N
86	CA074M	340657	1141040	7.3	.16	27	.12	13	2.9	.20	1.3	.01N	270	4.0N	20N	20N
87	CA075M	340602	1141047	6.8	.13	23	.10	16	3.3	.17	2.2	.01N	460	4.0N	20N	20N
88	CA076M	340617	1140754	8.1	.11	28	.08	9.7	3.9	.16	1.4	.01N	210	4.0N	20N	20N
89	CA077M1	340923	1140220	7.9	.07	27	.07	17	2.0	.06	1.2	.01N	230	4.0N	20N	20N
90	CA077M2	340923	1140220	8.6	.08	28	.07	14	2.0	.14	1.1	.01N	200	4.0N	20N	20N
91	CA077M3	340923	1140220	6.2	.07	24	.06	17	3.1	.10	1.6	.01N	350	4.0N	20N	20N
92	CA078M1	340801	1140259	6.1	.13	28	.11	9.6	3.3	.14	1.0	.01N	290	4.0N	20N	20N
93	CA078M2	340801	1140259	5.9	.05	27	.05	11	4.0	.08	1.9	.01N	270	4.0N	20N	20N
94	CA078M3	340801	1140259	6.8	.09	29	.07	7.2	4.0	.15	1.3	.01N	200	4.0N	20N	20N
95	CA078M4	340801	1140259	7.6	.07	28	.06	10	4.1	.09	1.0	.01N	220	4.0N	20N	20N
96	CA079M	340753	1140213	7.9	.11	28	.08	12	3.5	.17	.89	.01N	170	4.0N	20N	20N
97	CA080MA	335819	1140336	7.1	.11	25	.09	14	4.1	.24	1.4	.01N	150	4.0N	20N	20N
98	CA080MB	335819	1140336	6.0	.17	26	.14	10	4.3	.13	1.3	.01N	640	4.0N	20N	20N

Table 14.--continued.

	Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
1	CA001M	410	2.0N	20N	4.0N	8.0N	3.0	10	120	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
2	CA002M	500	2.0N	20N	4.0N	8.0N	2.0	8.0	130	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
3	CA003M	1000	2.0N	20N	4.0N	8.0N	3.0	12	110	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
4	CA004M	790	2.0N	20N	4.0N	8.0N	3.0	10	110	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
5	CA005F	560	2.0N	20N	4.0N	8.0N	3.0	5.0	54	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
6	CA006F	500	2.0N	20N	4.0N	8.0N	3.0	6.0	130	4.0N	8.0N	8.0N	6.0	14	4.0N	8.0N
7	CA007F	570	2.0N	20N	4.0N	8.0N	3.0	5.0	79	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
8	CA008F	310	2.0N	20N	4.0N	8.0N	2.0	5.0	130	4.0N	8.0N	8.0N	5.0	4.0N	6.0	8.0N
9	CA009F	730	2.0N	20N	4.0N	8.0N	3.0	6.0	84	4.0N	8.0N	8.0N	5.0	4.0N	4.0	8.0N
10	CA010FA	730	2.0N	20N	4.0N	8.0N	3.0	11	72	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
11	CA010FB	700	2.0N	20N	4.0N	8.0N	4.0	8.0	75	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
12	CA011M	1300	2.0N	20N	4.0N	8.0N	3.0	6.0	56	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
13	CA012M	640	2.0N	20N	4.0N	8.0N	3.0	10	46	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
14	CA013M	1100	2.0N	20N	4.0N	8.0N	3.0	9.0	54	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
15	CA014M	820	2.0N	20N	4.0N	8.0N	3.0	10	79	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
16	CA015M	900	2.0N	20N	4.0N	8.0N	3.0	8.0	77	4.0N	8.0N	8.0N	8.0	4.0N	4.0N	8.0N
17	CA016MA	810	2.0N	20N	4.0N	8.0N	3.0	19	96	4.0N	8.0N	8.0N	6.0	9.0	4.0N	8.0N
18	CA016MB	430	2.0N	20N	4.0N	8.0N	3.0	13	92	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
19	CA017M	1300	2.0N	20N	4.0N	8.0N	3.0	8.0	50	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
20	CA018F	910	2.0N	20N	4.0N	8.0N	3.0	6.0	160	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
21	CA019F	190	2.0N	20N	4.0N	8.0N	2.0	8.0	140	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
22	CA020F	520	2.0N	20N	4.0N	8.0N	3.0	7.0	180	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
23	CA021F	1400	2.0N	20N	4.0N	8.0N	3.0	4.0	40	4.0N	8.0N	8.0N	6.0	7.0	4.0N	8.0N
24	CA022M	950	2.0N	20N	4.0N	8.0N	2.0	8.0	90	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
25	CA023M	1400	2.0N	20N	4.0N	8.0N	4.0	7.0	48	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
26	CA024FA	420	2.0N	20N	4.0N	8.0N	2.0	8.0	130	4.0N	8.0N	8.0N	5.0	5.0	4.0N	8.0N
27	CA024FB	1200	2.0N	20N	4.0N	8.0N	4.0	7.0	65	4.0N	8.0N	8.0N	5.0	4.0N	4.0	8.0N
28	CA025F	1100	2.0N	20N	4.0N	8.0N	3.0	9.0	93	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
29	CA026F	1700	2.0N	20N	4.0N	8.0N	4.0	4.0	52	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
30	CA027F	930	2.0N	20N	4.0N	8.0N	3.0	6.0	93	4.0N	8.0N	8.0N	5.0	4.0N	4.0	8.0N
31	CA028F	510	2.0N	20N	4.0N	8.0N	2.0	6.0	96	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
32	CA029F	1300	2.0N	20N	4.0N	8.0N	3.0	6.0	79	4.0N	8.0N	8.0N	6.0	4.0N	4.0	8.0N
33	CA030M	1000	2.0N	20N	4.0N	8.0N	4.0	7.0	110	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
34	CA031F	710	2.0N	20N	4.0N	8.0N	2.0	7.0	51	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
35	CA032FA	1100	2.0N	20N	4.0N	8.0N	3.0	8.0	54	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
36	CA032FB	790	2.0N	20N	4.0N	8.0N	3.0	6.0	70	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
37	CA033F	1700	2.0N	20N	4.0N	8.0N	4.0	5.0	51	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
38	CA034F	2000	2.0N	20N	4.0N	8.0N	4.0	6.0	60	4.0N	8.0N	8.0N	6.0	4.0N	5.0	8.0N
39	CA035F	1100	2.0N	20N	4.0N	8.0N	2.0	4.0	84	4.0N	8.0N	8.0N	4.0	4.0	4.0	8.0N
40	CA036F	1100	2.0N	20N	4.0N	8.0N	3.0	6.0	96	4.0N	8.0N	8.0N	6.0	4.0N	4.0	8.0N

Table 14.--continued.

Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
41 CA037F	1300	2.0N	20N	4.0N	8.0N	4.0	8.0	91	4.0N	8.0N	8.0N	6.0	4.0N	5.0	8.0N
42 CA038F	1000	2.0N	20N	4.0N	8.0N	3.0	7.0	100	4.0N	8.0N	8.0N	6.0	4.0N	5.0	8.0N
43 CA039F	1100	2.0N	20N	4.0N	8.0N	4.0	10	53	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
44 CA040FA	330	2.0N	20N	4.0N	8.0N	2.0	8.0	95	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
45 CA040FB	320	2.0N	20N	4.0N	8.0N	2.0	8.0	110	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
46 CA041M	540	2.0N	20N	4.0N	8.0N	3.0	7.0	80	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
47 CA044M	800	2.0N	20N	4.0N	8.0N	3.0	6.0	77	4.0N	8.0N	8.0N	6.0	6.0	8.0	8.0N
48 CA045F	490	2.0N	20N	4.0N	8.0N	2.0	7.0	100	4.0N	8.0N	8.0N	4.0	13	4.0N	8.0N
49 CA046F	610	2.0N	20N	4.0N	8.0N	3.0	6.0	95	4.0N	8.0N	8.0N	5.0	4.0	6.0	8.0N
50 CA047F	600	2.0N	20N	4.0N	8.0N	3.0	6.0	97	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
51 CA048FA	1100	2.0N	20N	4.0N	8.0N	3.0	6.0	62	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
52 CA048FB	1100	2.0N	20N	4.0N	8.0N	4.0	9.0	89	4.0N	8.0N	8.0N	4.0	4.0	4.0N	8.0N
53 CA049F	670	2.0N	20N	4.0N	8.0N	3.0	5.0	110	4.0N	8.0N	8.0N	5.0	7.0	6.0	8.0N
54 CA050F	940	2.0N	20N	4.0N	8.0N	3.0	5.0	92	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
55 CA051F	610	2.0N	20N	4.0N	8.0N	4.0	6.0	130	4.0N	8.0N	8.0N	6.0	10	4.0N	8.0N
56 CA052F	890	2.0N	20N	4.0N	8.0N	4.0	7.0	110	4.0N	8.0N	8.0N	6.0	16	4.0	8.0N
57 CA053F	1000	2.0N	20N	4.0N	8.0N	3.0	4.0	69	4.0N	8.0N	8.0N	6.0	12	4.0N	8.0N
58 CA054F	520	2.0N	20N	4.0N	8.0N	2.0N	8.0	88	4.0N	8.0N	8.0N	6.0	9.0	4.0N	8.0N
59 CA055F	640	2.0N	20N	4.0N	8.0N	3.0	7.0	140	4.0N	8.0N	8.0N	6.0	4.0N	4.0	8.0N
60 CA056FA	750	2.0N	20N	4.0N	8.0N	4.0	7.0	82	4.0N	8.0N	8.0N	6.0	4.0N	6.0	8.0N
61 CA056FB	1300	2.0N	20N	4.0N	8.0N	4.0	6.0	57	4.0N	8.0N	8.0N	7.0	8.0	4.0N	8.0N
62 CA057F	760	2.0N	20N	4.0N	8.0N	2.0	6.0	72	4.0N	8.0N	8.0N	6.0	4.0N	4.0	8.0N
63 CA058M	890	2.0N	20N	4.0N	8.0N	3.0	7.0	59	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
64 CA059M	960	2.0N	20N	4.0N	8.0N	3.0	7.0	37	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
65 CA060M	840	2.0N	20N	4.0N	8.0N	3.0	10	67	4.0N	8.0N	8.0N	6.0	5.0	4.0N	8.0N
66 CA061M	940	2.0N	20N	4.0N	8.0N	3.0	8.0	62	4.0N	8.0N	8.0N	8.0	4.0N	4.0N	8.0N
67 CA062M	670	2.0N	20N	4.0N	8.0N	3.0	11	39	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
68 CA063F	360	2.0N	20N	4.0N	8.0N	3.0	6.0	110	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
69 CA063M	1600	2.0N	20N	4.0N	8.0N	4.0	8.0	92	4.0N	8.0N	8.0N	6.0	6.0	4.0N	8.0N
70 CA064FA	690	2.0N	20N	4.0N	8.0N	3.0	5.0	76	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
71 CA064FB	1300	2.0N	20N	4.0N	8.0N	4.0	6.0	73	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
72 CA064M	1100	2.0N	20N	4.0N	8.0N	3.0	5.0	37	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
73 CA065M	910	2.0N	20N	4.0N	8.0N	3.0	7.0	57	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
74 CA066F	1100	2.0N	20N	4.0N	8.0N	3.0	5.0	55	4.0N	8.0N	8.0N	5.0	6.0	6.0	8.0N
75 CA067F	1000	2.0N	20N	4.0N	8.0N	4.0	6.0	47	4.0N	8.0N	8.0N	6.0	4.0	6.0	8.0N
76 CA068F	440	2.0N	20N	4.0N	8.0N	3.0	9.0	120	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
77 CA068M	670	2.0N	20N	4.0N	8.0N	3.0	7.0	110	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
78 CA069M	190	2.0N	20N	4.0N	8.0N	3.0	6.0	46	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
79 CA070M	910	2.0N	20N	4.0N	8.0N	3.0	7.0	58	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
80 CA071F	650	2.0N	20N	4.0N	8.0N	2.0	8.0	130	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N

Table 14.--continued.

	Field #	Ba ppm-C	Be ppm-C	Bi ppm-C	Cd ppm-C	Ce ppm-C	Co ppm-C	Cr ppm-C	Cu ppm-C	Eu ppm-C	Ga ppm-C	Ho ppm-C	La ppm-C	Li ppm-C	Mo ppm-C	Nb ppm-C
81	CA072FA	800	2.0N	20N	4.0N	8.0N	3.0	9.0	110	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
82	CA072FB	1200	2.0N	20N	4.0N	8.0N	3.0	5.0	76	4.0N	8.0N	8.0N	5.0	23	4.0N	8.0N
83	CA072MA	1200	2.0N	20N	4.0N	8.0N	3.0	5.0	70	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
84	CA073F	740	2.0N	20N	4.0N	8.0N	2.0	6.0	43	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
85	CA073M	1500	2.0N	20N	4.0N	8.0N	4.0	5.0	42	4.0N	8.0N	8.0N	7.0	4.0N	4.0	8.0N
86	CA074M	760	2.0N	20N	4.0N	8.0N	4.0	7.0	58	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
87	CA075M	630	2.0N	20N	4.0N	8.0N	2.0	7.0	76	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
88	CA076M	550	2.0N	20N	4.0N	8.0N	3.0	6.0	81	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
89	CA077M1	350	2.0N	20N	4.0N	8.0N	3.0	6.0	78	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
90	CA077M2	320	2.0N	20N	4.0N	8.0N	3.0	7.0	87	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
91	CA077M3	340	2.0N	20N	4.0N	8.0N	3.0	9.0	120	4.0N	8.0N	8.0N	6.0	4.0	4.0N	8.0N
92	CA078M1	320	2.0N	20N	4.0N	8.0N	3.0	7.0	120	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
93	CA078M2	580	2.0N	20N	4.0N	8.0N	4.0	6.0	85	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
94	CA078M3	500	2.0N	20N	4.0N	8.0N	3.0	8.0	76	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
95	CA078M4	1100	2.0N	20N	4.0N	8.0N	4.0	8.0	76	4.0N	8.0N	8.0N	6.0	4.0N	4.0N	8.0N
96	CA079M	300	2.0N	20N	4.0N	8.0N	3.0	6.0	87	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N
97	CA080MA	1400	2.0N	20N	4.0N	8.0N	3.0	11	79	4.0N	8.0N	8.0N	5.0	4.0N	4.0N	8.0N
98	CA080MB	580	2.0N	20N	4.0N	8.0N	4.0	11	120	4.0N	8.0N	8.0N	7.0	4.0N	4.0N	8.0N

Table 14.--continued.

	Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
1	CA001M	11	7.0	8.0N	5.0	20N	1600	80N	8.0N	200N	4.0N	4.0N	2.0N	350
2	CA002M	9.0	4.0	8.0N	6.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	190
3	CA003M	8.0N	7.0	8.0N	8.0	20N	3100	80N	8.0N	200N	4.0N	4.0N	2.0N	220
4	CA004M	8.0N	4.0N	8.0N	21	20N	8200	80N	8.0N	200N	4.0N	4.0N	2.0N	790
5	CA005F	8.0N	15	8.0N	11	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	260
6	CA006F	8.0N	23	8.0N	14	20N	5000	80N	8.0N	200N	4.0N	4.0N	2.0N	340
7	CA007F	8.0N	23	8.0N	21	20N	8000	80N	8.0N	200N	4.0N	4.0N	2.0N	260
8	CA008F	8.0N	18	8.0N	6.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	360
9	CA009F	8.0N	8.0	8.0N	11	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	230
10	CA010FA	12	4.0	8.0N	14	20N	5200	80N	8.0N	200N	4.0N	4.0N	2.0N	180
11	CA010FB	9.0	4.0N	8.0N	12	20N	4500	80N	8.0N	200N	4.0N	4.0N	2.0N	240
12	CA011M	8.0N	4.0N	8.0N	14	20N	5500	80N	8.0N	200N	4.0N	4.0N	2.0N	180
13	CA012M	8.0N	4.0N	8.0N	11	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	200
14	CA013M	9.0	5.0	8.0N	14	20N	5600	80N	8.0N	200N	4.0N	4.0N	2.0N	260
15	CA014M	9.0	4.0N	8.0N	6.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	320
16	CA015M	8.0N	5.0	8.0N	10	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	160
17	CA016MA	8.0N	6.0	8.0N	15	20N	5800	80N	8.0N	200N	4.0N	4.0N	2.0N	330
18	CA016MB	11	7.0	8.0N	7.0	20N	2500	80N	8.0N	200N	4.0N	4.0N	2.0N	360
19	CA017M	8.0N	5.0	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	260
20	CA018F	8.0N	19	8.0N	13	20N	4800	80N	8.0N	200N	4.0N	4.0N	2.0N	440
21	CA019F	8.0N	13	8.0N	6.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	280
22	CA020F	8.0N	19	8.0N	10	20N	3700	80N	8.0N	200N	4.0N	4.0N	2.0N	530
23	CA021F	8.0N	4.0N	8.0N	29	20N	11000	80N	8.0N	200N	4.0N	4.0N	2.0N	150
24	CA022M	10	7.0	8.0N	9.0	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	350
25	CA023M	8.0N	4.0N	8.0N	26	20N	9800	80N	8.0N	200N	4.0N	4.0N	2.0N	240
26	CA024FA	8.0N	17	8.0N	9.0	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	380
27	CA024FB	8.0	4.0N	8.0N	18	20N	6800	80N	8.0N	200N	4.0N	4.0N	2.0N	360
28	CA025F	8.0N	10	8.0N	8.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	370
29	CA026F	8.0N	4.0	8.0N	36	20N	14000	80N	8.0N	200N	4.0N	4.0N	2.0N	280
30	CA027F	8.0N	8.0	8.0N	11	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	380
31	CA028F	8.0N	10	8.0N	18	20N	6800	80N	8.0N	200N	4.0N	4.0N	2.0N	390
32	CA029F	8.0N	6.0	8.0N	8.0	20N	2900	80N	8.0N	200N	4.0N	4.0N	2.0N	280
33	CA030M	8.0N	6.0	8.0N	15	20N	5700	80N	8.0N	200N	4.0N	4.0N	2.0N	450
34	CA031F	8.0N	5.0	8.0N	13	20N	4800	80N	8.0N	200N	4.0N	4.0N	2.0N	220
35	CA032FA	8.0N	4.0N	8.0N	7.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	190
36	CA032FB	8.0	5.0	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	280
37	CA033F	8.0N	4.0N	8.0N	31	20N	12000	80N	8.0N	200N	4.0N	4.0N	2.0N	250
38	CA034F	8.0N	4.0N	8.0N	23	20N	8700	80N	8.0N	200N	4.0N	4.0N	2.0N	260
39	CA035F	8.0N	10	8.0N	16	20N	6000	80N	8.0N	200N	4.0N	4.0N	2.0N	280
40	CA036F	8.0N	5.0	8.0N	4.0	20N	1400	80N	8.0N	200N	4.0N	4.0N	2.0N	380

Table 14.--continued.

Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
41 CA037F	8.0N	8.0	8.0N	18	20N	6700	80N	8.0N	200N	4.0N	4.0N	2.0N	360
42 CA038F	8.0N	5.0	8.0N	4.0N	20N	1200	80N	8.0N	200N	4.0N	4.0N	2.0N	280
43 CA039F	8.0N	6.0	8.0N	8.0	20N	3000	80N	8.0N	200N	4.0N	4.0N	2.0N	210
44 CA040FA	9.0	16	8.0N	6.0	20N	2200	80N	8.0N	200N	4.0N	4.0N	2.0N	200
45 CA040FB	8.0N	21	8.0N	7.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	280
46 CA041M	8.0N	6.0	8.0N	13	20N	4900	80N	8.0N	200N	4.0N	4.0N	2.0N	380
47 CA044M	8.0N	6.0	8.0N	14	20N	5000	80N	8.0N	200N	4.0N	4.0N	2.0N	170
48 CA045F	8.0N	11	8.0N	11	20N	4400	80N	8.0N	200N	4.0N	4.0N	2.0N	300
49 CA046F	8.0N	18	8.0N	9.0	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	240
50 CA047F	8.0N	23	8.0N	21	20N	7900	80N	8.0N	200N	4.0N	4.0N	2.0N	410
51 CA048FA	8.0N	6.0	8.0N	14	20N	5300	80N	8.0N	200N	4.0N	4.0N	2.0N	360
52 CA048FB	10	9.0	8.0N	12	20N	4400	80N	8.0N	200N	4.0N	4.0N	2.0N	440
53 CA049F	8.0N	10	8.0N	12	20N	4600	80N	8.0N	200N	4.0N	4.0N	2.0N	460
54 CA050F	8.0N	7.0	8.0N	9.0	20N	3300	80N	8.0N	200N	4.0N	4.0N	2.0N	270
55 CA051F	8.0N	18	8.0N	18	20N	6800	80N	8.0N	200N	4.0N	4.0N	2.0N	520
56 CA052F	8.0N	6.0	8.0N	21	20N	7700	80N	8.0N	200N	4.0N	4.0N	2.0N	440
57 CA053F	8.0N	8.0	8.0N	23	20N	8500	80N	8.0N	200N	4.0N	4.0N	2.0N	330
58 CA054F	8.0N	16	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	380
59 CA055F	8.0N	12	8.0N	11	20N	4200	80N	8.0N	200N	4.0N	4.0N	2.0N	470
60 CA056FA	8.0N	10	8.0N	14	20N	5200	80N	8.0N	200N	4.0N	4.0N	2.0N	330
61 CA056FB	11	10	8.0N	17	20N	6500	80N	8.0N	200N	4.0N	4.0N	2.0N	370
62 CA057F	8.0N	4.0N	8.0N	44	20N	17000	80N	8.0N	200N	4.0N	4.0N	2.0N	330
63 CA058M	8.0N	5.0	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	200
64 CA059M	8.0N	4.0N	8.0N	10	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	230
65 CA060M	8.0N	4.0N	8.0N	11	20N	4000	80N	8.0N	200N	4.0N	4.0N	2.0N	250
66 CA061M	8.0	4.0N	8.0N	4.0	20N	1400	80N	8.0N	200N	4.0N	4.0N	2.0N	300
67 CA062M	10	4.0N	8.0N	8.0	20N	2700	80N	8.0N	200N	4.0N	4.0N	2.0N	240
68 CA063F	8.0N	13	8.0N	9.0	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	320
69 CA063M	8.0N	6.0	8.0N	19	20N	7000	80N	8.0N	200N	4.0N	4.0N	2.0N	480
70 CA064FA	8.0N	9.0	8.0N	6.0	20N	2300	80N	8.0N	200N	4.0N	4.0N	2.0N	320
71 CA064FB	8.0N	9.0	8.0N	4.0N	20N	1300	80N	8.0N	200N	4.0N	4.0N	2.0N	220
72 CA064M	8.0N	4.0	8.0N	7.0	20N	2400	80N	8.0N	200N	4.0N	4.0N	2.0N	390
73 CA065M	8.0N	4.0N	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	220
74 CA066F	8.0N	7.0	8.0N	26	20N	10000	80N	8.0N	200N	4.0N	4.0N	2.0N	240
75 CA067F	8.0N	11	8.0N	13	20N	4800	80N	8.0N	200N	4.0N	4.0N	2.0N	280
76 CA068F	8.0	35	8.0N	8.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	360
77 CA068M	8.0N	9.0	8.0N	12	20N	4300	80N	8.0N	200N	4.0N	4.0N	2.0N	480
78 CA069M	8.0N	6.0	8.0N	8.0	20N	2800	80N	8.0N	200N	4.0N	4.0N	2.0N	370
79 CA070M	8.0N	4.0N	8.0N	11	20N	3900	80N	8.0N	200N	4.0N	4.0N	2.0N	420
80 CA071F	8.0N	9.0	8.0N	10	20N	3800	80N	8.0N	200N	4.0N	4.0N	2.0N	360

Table 14.--continued.

	Field #	Nd ppm-C	Ni ppm-C	Pb ppm-C	Sc ppm-C	Sn ppm-C	Sr ppm-C	Ta ppm-C	Th ppm-C	U ppm-C	V ppm-C	Y ppm-C	Yb ppm-C	Zn ppm-C
81	CA072FA	8.0N	8.0	8.0N	14	20N	5300	80N	8.0N	200N	4.0N	4.0N	2.0N	410
82	CA072FB	8.0N	13	8.0N	18	20N	6700	80N	8.0N	200N	4.0N	4.0N	2.0N	320
83	CA072MA	8.0N	4.0N	8.0N	17	20N	6400	80N	8.0N	200N	4.0N	4.0N	2.0N	540
84	CA073F	8.0N	16	8.0N	12	20N	4700	80N	8.0N	200N	4.0N	4.0N	2.0N	350
85	CA073M	8.0	4.0N	8.0N	17	20N	6600	80N	8.0N	200N	4.0N	4.0N	2.0N	490
86	CA074M	8.0N	6.0	8.0N	16	20N	6000	80N	8.0N	200N	4.0N	4.0N	2.0N	680
87	CA075M	8.0N	6.0	8.0N	12	20N	4500	80N	8.0N	200N	4.0N	4.0N	2.0N	330
88	CA076M	8.0N	4.0N	8.0N	10	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	190
89	CA077M1	11	4.0N	8.0N	4.0N	20N	1200	80N	8.0N	200N	4.0N	4.0N	2.0N	150
90	CA077M2	11	4.0N	8.0N	4.0N	20N	1200	80N	8.0N	200N	4.0N	4.0N	2.0N	140
91	CA077M3	9.0	4.0N	8.0N	4.0	20N	1300	80N	8.0N	200N	4.0N	4.0N	2.0N	280
92	CA078M1	9.0	4.0N	8.0N	10	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	330
93	CA078M2	12	4.0N	8.0N	7.0	20N	2600	80N	8.0N	200N	4.0N	4.0N	2.0N	150
94	CA078M3	10	4.0N	8.0N	10	20N	3600	80N	8.0N	200N	4.0N	4.0N	2.0N	160
95	CA078M4	10	4.0N	8.0N	13	20N	4600	80N	8.0N	200N	4.0N	4.0N	2.0N	170
96	CA079M	10	4.0N	8.0N	13	20N	4800	80N	8.0N	200N	4.0N	4.0N	2.0N	210
97	CA080MA	8.0N	4.0N	8.0N	15	20N	5600	80N	8.0N	200N	4.0N	4.0N	2.0N	210
98	CA080MB	11	4.0	9.0	10	20N	3500	80N	8.0N	200N	4.0N	4.0N	2.0N	160

Table 14.--continued.

	Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
1	CA001M	.001N	.15N	2.0N	.50N	2.0N	.19	110	1.4	2.0N	2.0N	270
2	CA002M	.001N	.15N	2.0N	.50N	2.0N	.14	120	.40	2.0N	2.0N	160
3	CA003M	.001	.15N	2.0N	.50N	2.0N	.19	98	2.7	2.0N	2.0N	170
4	CA004M	.001N	.15N	2.0N	.50N	2.0N	.21	97	1.7	2.0N	2.8	590
5	CA005F	.002	.15N	2.0N	.50N	2.0N	.14	50	.30N	2.0N	2.0N	200
6	CA006F	.001N	.15N	2.0N	.50N	2.0N	.13	120	1.2	2.0N	2.0N	270
7	CA007F	.001N	.15N	2.0N	.50N	2.0N	.11	73	1.3	2.0N	2.0N	210
8	CA008F	.001N	.15N	2.0N	.50N	2.0N	.16	120	5.1	2.0N	2.0N	290
9	CA009F	.001N	.15N	2.0N	.50N	2.0N	.10	76	4.1	2.0N	2.0N	180
10	CA010FA	.001	.15N	2.0N	.50N	2.0N	.26	67	1.2	2.8	2.0N	140
11	CA010FB	.001N	.15N	2.0N	.50N	2.0N	.24	71	.30N	2.9	2.0N	190
12	CA011M	.001N	.15N	2.0N	.50N	2.0N	.14	53	.30N	2.3	2.0N	140
13	CA012M	.001	.15N	2.0N	.50N	2.0N	.26	45	.30N	5.2	2.0N	160
14	CA013M	.001N	.15N	2.0N	.50N	2.0N	.24	50	.30N	2.4	2.0N	200
15	CA014M	.001N	.15N	2.0N	.50N	2.0N	.21	74	2.6	2.5	2.0N	250
16	CA015M	.001N	.15N	2.0N	.50N	2.0N	.19	75	1.1	3.2	2.0N	130
17	CA016MA	.001	.15N	2.0N	.50N	2.0N	.46	94	2.8	3.4	2.0N	250
18	CA016MB	.001N	.15N	2.0N	.50N	2.0N	.19	88	.78	2.6	2.0N	290
19	CA017M	.001N	.15N	2.0N	.50N	2.0N	.22	49	.30N	2.0	2.0N	200
20	CA018F	.001	.15N	2.0N	.50N	2.0N	.14	150	3.1	2.0N	2.0N	350
21	CA019F	.001N	.15N	2.0N	.50N	2.0N	.13	130	1.3	2.0N	2.0N	220
22	CA020F	.001	.15N	2.0N	.50N	2.0N	.11	170	1.4	2.0N	2.0N	410
23	CA021F	.001N	.15N	2.0N	.50N	2.0N	.10N	38	1.1	2.0N	2.0N	110
24	CA022M	.001N	.15N	2.0N	.50N	2.0N	.15	84	.83	2.0N	2.0N	270
25	CA023M	.001N	.15N	2.0N	.50N	2.0N	.28	44	1.9	3.9	2.0N	180
26	CA024FA	.001N	.15N	2.0N	.50N	2.0N	.23	110	3.0	2.0N	2.0N	300
27	CA024FB	.001N	.15N	2.0N	.50N	2.0N	.17	62	3.6	2.0N	2.0N	290
28	CA025F	.001N	.15N	2.0N	.50N	2.0N	.22	88	.74	2.0N	2.0N	290
29	CA026F	.001N	.15N	2.0N	.50N	2.0N	.10N	49	.30N	2.0N	2.0N	210
30	CA027F	.001N	.15N	2.0N	.50N	2.0N	.17	87	4.0	2.0N	2.0N	290
31	CA028F	.001N	.15N	2.0N	.50N	2.0N	.14	90	1.6	2.0N	2.0N	310
32	CA029F	.001N	.15N	2.0N	.50N	2.0N	.19	71	3.6	2.0N	2.0N	210
33	CA030M	.001	.15N	2.0N	.50N	2.0N	.23	100	1.2	2.6	2.0N	340
34	CA031F	.001	.15N	2.0N	.50N	2.0N	.11	50	1.3	2.0N	2.0N	170
35	CA032FA	.001N	.15N	2.0N	.50N	2.0N	.15	49	2.3	2.0N	2.0N	150
36	CA032FB	.001	.15N	2.0N	.50N	2.0N	.10N	66	2.0	2.0N	2.0N	230
37	CA033F	.001N	.15N	2.0N	.50N	2.0N	.10N	43	2.2	2.0N	2.0N	190
38	CA034F	.001N	.15N	2.0N	.50N	2.0N	.13	56	4.5	2.0N	2.0N	200
39	CA035F	.013	.15N	2.0N	.50N	2.0N	.12	77	3.5	2.0N	2.0N	220
40	CA036F	.001N	.15N	2.0N	.50N	2.0N	.13	92	3.5	2.0N	2.0N	290

Table 14.--continued.

	Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
41	CA037F	.001N	.15N	2.0N	.50N	2.0N	.10N	82	4.9	2.0N	2.0N	270
42	CA038F	.001N	.15N	2.0N	.50N	2.0N	.12	93	4.2	2.0N	2.0N	220
43	CA039F	.001N	.15N	2.0N	.50N	2.0N	.10	49	1.1	2.0N	2.0N	170
44	CA040FA	.001N	.15N	2.0N	.50N	2.0N	.12	88	2.1	2.0N	2.0N	160
45	CA040FB	.001N	.15N	2.0N	.50N	2.0N	.14	100	2.1	2.0N	2.0N	230
46	CA041M	.001N	.15N	2.0N	.50N	2.0N	.14	73	3.4	2.0N	2.0N	300
47	CA044M	.001N	.15N	2.0N	.50N	2.0N	.20	69	7.2	2.6	2.0N	140
48	CA045F	.001N	.15N	2.0N	.50N	2.0N	.15	97	2.8	2.0N	2.0N	240
49	CA046F	.002	.15N	2.0N	.50N	2.0N	.15	91	5.6	2.0N	2.0N	200
50	CA047F	.001N	.15N	2.0N	.50N	2.0N	.14	90	2.8	2.0N	2.0N	330
51	CA048FA	.003	.15N	2.0N	.50N	2.0N	.17	56	1.9	2.0N	2.0N	280
52	CA048FB	.001N	.15N	2.0N	.50N	2.0N	.14	85	3.2	2.0N	2.0N	350
53	CA049F	.001N	.15N	2.0N	.50N	2.0N	.25	110	5.7	2.0N	2.0N	370
54	CA050F	.001N	.15N	2.0N	.50N	2.0N	.18	86	1.8	2.0N	2.0N	220
55	CA051F	.001N	.15N	2.0N	.50N	2.0N	.22	120	3.5	2.0N	2.0N	410
56	CA052F	.001N	.15N	2.0N	.50N	2.0N	.18	96	3.9	2.0N	2.0N	340
57	CA053F	.001N	.15N	2.0N	.50N	2.0N	.14	64	2.1	2.0N	2.0N	260
58	CA054F	.001N	.15N	2.0N	.50N	2.0N	.10N	81	1.8	2.0N	2.0N	300
59	CA055F	.001N	.15N	2.0N	.50N	2.0N	.10	130	3.6	2.0N	2.0N	360
60	CA056FA	.001N	.15N	2.0N	.50N	2.0N	.22	78	5.2	2.0N	2.0N	270
61	CA056FB	.001N	.15N	2.0N	.50N	2.0N	.17	52	3.3	2.0N	2.0N	290
62	CA057F	.001N	.15N	2.0N	.50N	2.0N	.17	65	4.4	2.0N	2.0N	260
63	CA058M	.001N	.15N	2.0N	.50N	2.0N	.14	53	.51	2.0N	2.0N	150
64	CA059M	.001N	.15N	2.0N	.50N	2.0N	.17	34	.64	2.6	2.0N	180
65	CA060M	.001	.15N	2.0N	.50N	2.0N	.14	59	.57	2.3	2.0N	190
66	CA061M	.001N	.15N	2.0N	.50N	2.0N	.32	59	.91	2.2	2.0N	240
67	CA062M	.001N	.15N	2.0N	.50N	2.0N	.18	37	.48	2.0N	2.0N	200
68	CA063F	.001N	.15N	2.0N	.50N	2.0N	.10N	100	2.0	2.0N	2.0N	250
69	CA063M	.001N	.15N	2.0N	.50N	2.0N	.15	87	.98	2.0N	2.0N	380
70	CA064FA	.001N	.15N	2.0N	.50N	2.0N	.11	69	.30N	2.0N	2.0N	270
71	CA064FB	.001N	.15N	2.0N	.50N	2.0N	.10N	69	2.1	2.0N	2.0N	180
72	CA064M	.001N	.15N	2.0N	.50N	2.0N	.24	36	.99	2.0N	2.0N	310
73	CA065M	.001N	.15N	2.0N	.50N	2.0N	.17	55	1.1	3.2	2.0N	180
74	CA066F	.001N	.15N	2.0N	.50N	2.0N	.10N	53	6.1	2.0N	2.0N	200
75	CA067F	.001	.15N	2.0N	.50N	2.0N	.11	48	4.8	2.0N	2.0N	230
76	CA068F	.001N	.15N	2.0N	.50N	2.0N	.15	120	3.0	2.0N	2.0N	300
77	CA068M	.001	.15N	2.0N	.50N	2.0N	.34	100	2.5	2.0N	2.0N	380
78	CA069M	.001N	.15N	2.0N	.50N	2.0N	.23	41	.96	2.2	2.0N	290
79	CA070M	.001N	.15N	2.0N	.50N	2.0N	.21	56	.73	2.0N	2.0N	330
80	CA071F	.002	.15N	2.0N	.50N	2.0N	.10N	120	2.9	2.0N	2.0N	280

Table 14.--continued.

	Field #	Au ppm-G	Ag ppm-I	As ppm-I	Au ppm-I	Bi ppm-I	Cd ppm-I	Cu ppm-I	Mo ppm-I	Pb ppm-I	Sb ppm-I	Zn ppm-I
81	CA072FA	.005	.15N	2.0N	.50N	2.0N	.11	110	1.9	2.0N	2.0N	320
82	CA072FB	.001N	.15N	2.0N	.50N	2.0N	.10N	70	.30N	2.0N	2.0N	260
83	CA072MA	.003	.15N	2.0N	.50N	2.0N	.14	66	.64	2.0N	2.0N	410
84	CA073F	.008	.15N	2.0N	.50N	2.0N	.13	41	2.9	2.0N	2.0N	280
85	CA073M	.004	.15N	2.0N	.50N	2.0N	.50	40	4.6	2.5	2.0N	390
86	CA074M	.001N	.15N	2.0N	.50N	2.0N	.23	55	1.4	3.7	2.0N	520
87	CA075M	.001N	.15N	2.0N	.50N	2.0N	.16	74	1.5	2.1	2.0N	270
88	CA076M	.001N	.15N	2.0N	.50N	2.0N	.17	76	.67	2.0N	2.0N	160
89	CA077M1	.001N	.15N	2.0N	.50N	2.0N	.17	80	.68	2.0N	2.0N	120
90	CA077M2	.001	.15N	2.0N	.50N	2.0N	.10N	74	.80	2.0N	2.0N	110
91	CA077M3	.001	.15N	2.0N	.50N	2.0N	.23	110	1.1	2.0N	2.0N	220
92	CA078M1	.001N	.15N	2.0N	.50N	2.0N	.23	110	1.3	3.2	2.0N	260
93	CA078M2	.001N	.15N	2.0N	.50N	2.0N	.11	79	.55	2.0N	2.0N	120
94	CA078M3	.001N	.15N	2.0N	.50N	2.0N	.18	67	.39	2.2	2.0N	130
95	CA078M4	.001N	.15N	2.0N	.50N	2.0N	.12	69	2.3	2.2	2.0N	140
96	CA079M	.001N	.15N	2.0N	.50N	2.0N	.12	82	1.2	3.0	2.0N	170
97	CA080MA	.001N	.15N	2.0N	.50N	2.0N	.27	72	1.4	3.1	2.0N	170
98	CA080MB	.001N	.15N	2.0N	.50N	2.0N	.20	96	1.5	3.5	2.0N	120

Table 15.--Basic statistics for 98 palo verde samples from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, AZ. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit; -G, graphite furnace atomic absorption spectrometry; -C, 40-element inductively coupled plasma-atomic emission spectrometry; -I, 10-element inductively coupled plasma-atomic emission spectrometry]

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
1	ASH PCT	4.7	12	7.2	1.2	98	0	0	0	0
2	AL PCT-C	.05	.17	.089	.027	98	0	0	0	0
3	CA PCT-C	15	30	22	4.0	98	0	0	0	0
4	FE PCT-C	.04	.14	.079	.018	98	0	0	0	0
5	K PCT-C	7.2	27	17	4.6	98	0	0	0	0
6	MG PCT-C	2.0	7.9	4.9	1.3	98	0	0	0	0
7	NA PCT-C	.03	.28	.085	.048	98	0	0	0	0
8	P PCT-C	.89	3.4	2.0	.63	98	0	0	0	0
9	TI PCT-C	---	---	---	---	0	0	0	98	0
10	MN PPM-C	130	730	320	110	98	0	0	0	0
11	AG PPM-C	---	---	---	---	0	0	0	98	0
12	AS PPM-C	---	---	---	---	0	0	0	98	0
13	AU PPM-C	---	---	---	---	0	0	0	98	0
14	BA PPM-C	190	2000	840	370	98	0	0	0	0
15	BE PPM-C	---	---	---	---	0	0	0	98	0
16	BI PPM-C	---	---	---	---	0	0	0	98	0
17	CD PPM-C	---	---	---	---	0	0	0	98	0
18	CE PPM-C	---	---	---	---	0	0	0	98	0
19	CO PPM-C	2.0	4.0	3.1	.62	97	0	0	1	0
20	CR PPM-C	4.0	19	7.2	2.2	98	0	0	0	0
21	CU PPM-C	37	180	84	29	98	0	0	0	0
22	EU PPM-C	---	---	---	---	0	0	0	98	0
23	GA PPM-C	---	---	---	---	0	0	0	98	0
24	HO PPM-C	---	---	---	---	0	0	0	98	0
25	LA PPM-C	4.0	8.0	5.8	.81	98	0	0	0	0
26	LI PPM-C	4.0	23	8.4	4.9	21	0	0	77	0
27	MO PPM-C	4.0	8.0	4.9	1.1	20	0	0	78	0
28	NB PPM-C	---	---	---	---	0	0	0	98	0
29	ND PPM-C	8.0	12	9.7	1.3	26	0	0	72	0
30	NI PPM-C	4.0	35	10	6.1	68	0	0	30	0
31	PB PPM-C	9.0	9.0	9.0	---	1	0	0	97	0
32	SC PPM-C	4.0	44	13	6.8	94	0	0	4	0
33	SN PPM-C	---	---	---	---	0	0	0	98	0
34	SR PPM-C	1200	17000	4800	2700	98	0	0	0	0
35	TA PPM-C	---	---	---	---	0	0	0	98	0

Table 15.--continued.

UNIVARIATE STATISTICS

	COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
36	TH PPM-C	---	---	---	---	0	0	0	98	0
37	U PPM-C	---	---	---	---	0	0	0	98	0
38	V PPM-C	---	---	---	---	0	0	0	98	0
39	Y PPM-C	---	---	---	---	0	0	0	98	0
40	YB PPM-C	---	---	---	---	0	0	0	98	0
41	ZN PPM-C	140	790	310	110	98	0	0	0	0
42	AU PPM-G	.001	.013	.0025	.0029	23	0	0	75	0
43	AG PPM-I	---	---	---	---	0	0	0	98	0
44	AS PPM-I	---	---	---	---	0	0	0	98	0
45	AU PPM-I	---	---	---	---	0	0	0	98	0
46	BI PPM-I	---	---	---	---	0	0	0	98	0
47	CD PPM-I	.10	.50	.18	.069	86	0	0	12	0
48	CU PPM-I	34	170	78	27	98	0	0	0	0
49	MO PPM-I	.39	7.2	2.3	1.5	89	0	0	9	0
50	PB PPM-I	2.0	5.2	2.8	.70	27	0	0	71	0
51	SB PPM-I	2.8	2.8	2.8	---	1	0	0	97	0
52	ZN PPM-I	110	590	250	88	98	0	0	0	0

Table 16.--Results of analyses of soil samples for *Bacillus cereus* spore content from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, AZ. Units are in colony counts per gram. [L, detected but below the limit of determination shown]

Field #	Latitude	Longitude	Counts/g
1 CA002D	340500	1135519	420
2 CA003D	340501	1135509	330
3 CA004D	340552	1135541	40
4 CA005D	340409	1135540	1500
5 CA006D	340315	1135656	5100
6 CA007D	340344	1135619	810
7 CA008D	340308	1135419	730
8 CA009D	340309	1135503	80
9 CA010DA	340232	1135529	10
10 CA010DB	340232	1135529	640
11 CA011D	340203	1135622	50
12 CA012D	340148	1135656	1100
13 CA013D	340044	1135855	9700
14 CA014D	340019	1135927	1000
15 CA015D	340103	1135740	16100
16 CA016DA	340110	1135617	10L
17 CA016DB	340110	1135617	50
18 CA017D	340127	1135925	60
19 CA018D	340526	1135604	630
20 CA019D	340506	1135615	1700
21 CA020D	340423	1135810	1100
22 CA021D	340345	1135854	30
23 CA022D	340603	1135731	1700
24 CA023D	340538	1135800	10200
25 CA024DA	340126	1140505	50
26 CA024DB	340126	1140505	7000
27 CA025D	340207	1140426	750
28 CA026D	340321	1140352	7600
29 CA027D	340247	1140411	230
30 CA028D	340324	1140500	5800
31 CA029D	340238	1140509	10
32 CA030D	340437	1140057	150
33 CA031D	340346	1140215	240
34 CA032DA	340244	1140318	550
35 CA032DB	340244	1140318	240
36 CA033D	340108	1140340	920
37 CA034D	340011	1140344	7400
38 CA035D	340009	1140246	60
39 CA036D	340050	1140221	60
40 CA037D	340238	1140157	570
41 CA038D	340145	1140158	20
42 CA039D	340226	1140048	20
43 CA040DA	340129	1140022	830
44 CA040DB	340129	1140022	2500
45 CA041D	335954	1140102	10L
46 CA043D	340410	1140834	460
47 CA044D	340350	1140958	820
48 CA045D	335956	1140953	800
49 CA046D	340315	1140729	2700
50 CA047D	340307	1140634	250
51 CA048DA	340213	1140655	10L
52 CA048DB	340213	1140655	80
53 CA049D	335941	1140722	1100
54 CA050D	340003	1140610	1000
55 CA051D	340051	1140653	810
56 CA052D	340131	1140707	21000
57 CA053D	340114	1140619	70
58 CA054D	340043	1140536	290
59 CA055D	335935	1140453	230
60 CA056DA	340007	1141136	900
61 CA056DB	340007	1141136	1800
62 CA057D	340301	1140753	25000
63 CA058D	340607	1140843	1000
64 CA059D	340633	1135756	8300
65 CA060D	340555	1135837	600
66 CA061D	340523	1135913	18000
67 CA062D	340451	1135859	40
68 CA063D	340457	1140012	10
69 CA064DA	340510	1140117	160
70 CA064DB	340510	1140117	940
71 CA065D	340535	1140228	10
72 CA066D	340532	1140316	770
73 CA067D	340603	1140353	20
74 CA068D	340614	1140444	20
75 CA069D	340604	1140506	1800
76 CA070D	340605	1140650	40
77 CA071D	340518	1140643	220
78 CA072DA	340634	1140716	220
79 CA072DB	340634	1140716	10
80 CA073D	340730	1141026	420
81 CA074D	340657	1141040	290
82 CA075D	340602	1141047	2500
83 CA076D	340617	1140754	1400
84 CA077D	340923	1140220	4500
85 CA078D1	340801	1140259	30
86 CA078D2	340801	1140259	60
87 CA078D3	340801	1140259	300
88 CA079D	340753	1140213	90
89 CA080DA	335819	1140336	10
90 CA080DB	335819	1140336	20

Table 17.--Basic statistics for *Bacillus cereus* spore content in 90 soil samples from the Cactus Plain and East Cactus Plain Wilderness Study Areas, La Paz County, AZ. Units are in colony counts per gram. [B, not analyzed; L, detected but below lower determination limit; N, not detected at lower determination limit; G, greater than upper determination limit]

UNIVARIATE STATISTICS

COLUMN	MINIMUM	MAXIMUM	MEAN	STANDARD DEVIATION	VALID	B	L	N	G
Counts per gram	10	25000	2200	4600	87	0	3	0	0