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Nevada Bureau of Mines and Geology
University of Nevada Reno
Reno, Nevada 89557-0088
(702) 784-6691

15 Apr 85

NBMG OPEN FILE REPORT 85-2

RECONNAISSANCE GEOCHEMICAL ASSESSMENT OF MINERAL
RESOURCES IN GRAPEVINE CANYON, G-E-M RESOURCE AREA
(WSA's NV-050-0354 and NV-050-0355) WEST CENTRAL NEVADA

Prepared by Jack Quade, Senior Geologist
J. V. Tingley, Principal Investigator

Prepared for:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
LAS VEGAS DISTRICT OFFICE
LAS VEGAS, NEVADA 89108
Under Contract YA-553-CT1-1058

This information should be considered preliminary.
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NEVADA BUREAU OF MINES AND GEOLOGY

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CANYON G-E-M RESOURCE AREA (WSA'S NV-050-0354 AND NV-050-0355)
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By

Jack Quade

and

Joseph V. Tingley

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John Schilling, Director/State Geologist
July 1984

TABLE OF CONTENTS

Summary	1
Introduction	2
Geologic Setting	2
Sample Collection and Analytical Techniques	2
Land Classification for G-E-M Resources Potential	6
Mineral Resource Areas	
Queer Mountain WSA (NV-050-0354)	8
Grapevine Mountain WSA (NV-050-0355)	9
Recommendations and Suggestions	10
Selected References	11
List of Illustrations	
Figure 1 Index Map	3
Figure 2 Generalized Geologic Map	4
Figure 3 Sample Location Map	5
Figure 4 Limits of Determination of Spectrographic Analysis	7
Figure 5 Geochemical Map showing Concentration of Molybdenum P.C.	12
Figure 6 Geochemical Map showing Concentration of Barium P.C.	13
Figure 7 Geochemical Map showing Concentration of Thorium, Yttrium P.C.	14
Figure 8 Geochemical Map showing Concentration of Silver P.C.	15
Figure 9 Geochemical Map showing Concentration of Gold Rocks	16
Figure 10 Geochemical Map showing Concentration of Silver Rocks	17
Figure 11 BLM Classification Scheme	18
Figure 12 Land Classification/Mineral Occurrence Map, Metallic	19
Appendix	
Table 1 Data for Stream Sediment Samples	
Table 2 Data for Panned Concentrate Samples	
Table 3 Data for Rock Samples	
Graphical Analysis, Stream Sediment Samples	
Graphical Analysis, Panned Concentrate Samples	
Graphical Analysis, Rock Samples	
Correlation Analysis, Stream Sediment Samples	
Correlation Analysis, Panned Concentrate Samples	
Correlation Analysis, Rock Samples	

SUMMARY

The Grapevine Canyon G-E-M Resource Area (WSA NV-050-0354 and WSA NV-050-0355) lies along the Nevada-California border in southern Esmeralda County and south-western Nye County, Nevada. The northern area, WSA NV-050-0354, is separated from WSA NV-050-0355 on the south by Nevada State Route 72, the road between Scotty's Junction and Scotty's Castle (see Figure 1).

Rocks exposed in these areas consist mainly of Tertiary volcanic flows. Two outcrops of Tertiary granite are found along the north edge of the northern WSA, southwest of Gold Point and just east of the state line in the northern part of the southern WSA.

The Nevada Bureau of Mines and Geology was contracted to conduct a detailed stream sediment sampling program within the Grapevine area to provide the Bureau of Land Management with field data which would aid in assessing its metallic mineral potential. During this program 354 sediment samples were taken from 117 points around the margins of the areas. In addition, 15 rock samples were taken from prospects within and near the WSA's. Samples were collected by NBMG staff, and the sample preparation and analysis were done by the Branch of Exploration Research, U.G. Geological Survey, through a cooperative agreement between that agency and the Nevada Bureau of Mines and Geology. The analytical results obtained from this program, coupled with field observations recorded by our field staff, have been used to outline the Mineral Resource Potential areas shown on Figure 12.

Areas M-1, M-2 and M-3 within the Queer Mountain WSA have significant mineral resource potential. The first is along the northern margin of the area while the second is in the southeastern section. The third is along the western border. The southern Grapevine Mountain WSA is divided by a moderately anomalous M-1 area to the south and an area M-2 to the north of relatively low potential (see Figure 12).

A complete description of the Grapevine area, its geologic setting, and comments concerning mining claim coverage, non-metallic and energy mineral potential can be found in the G-E-M report of April 29, 1983, prepared for BLM by Great Basin GEM Joint Venture. Details on these subjects are not repeated within this report.

INTRODUCTION

The Grapevine G-E-M area, composed of WSA's NV-050-0354 and NV-050-0355, is located within the Esmeralda-Stateline Resource Area, Las Vegas BLM District. The area is along the Nevada-California border northwest of Beatty, and includes parts of southern Esmeralda County and southwestern Nye County, Nevada. WSA NV-050-0354, Queer Mountain, covers an area which extends northwest from Nevada State Route 72 along the state line to just south of Gold Mountain. WSA NV-050-0355 covers an area of the Grapevine Mountains which extend along the Esmeralda-Nye County line south of State Route 72. Access to large portions of this GEM area is not good, and sections along the state line can be reached only from the California side (see Figure 1).

GEOLOGIC SETTING

With the exception of the extreme northern portion of the Queer Mountain WSA and a small area just east of the state line in the southern WSA, the entire Grapevine area is underlain by Tertiary volcanic rocks. Two large masses of Tertiary granite crop out along the south side of Oriental Wash along the northern edge of the Queer Mountain area and a small granite mass crops out just north of the southern boundary of the Grapevine Mountain WSA. The volcanic rocks exposed throughout the remainder of the Grapevine area consist of dacite and basalt flows and rhyolitic ash flow tuffs. The volcanic rocks are cut by a series of east-west, northeast and north-south trending faults.

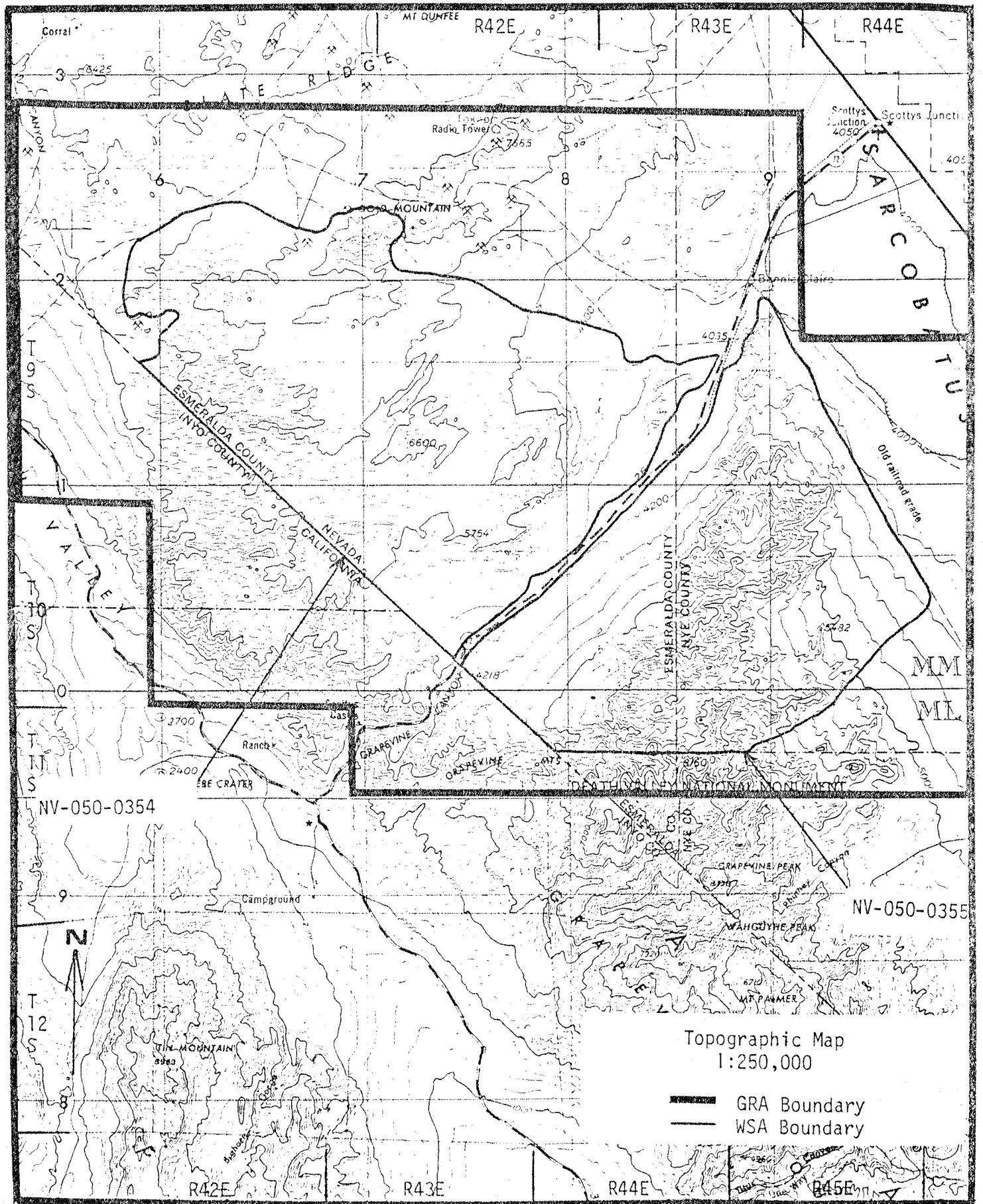
Mineral deposits in the Gold Mountain (Tokop) district north of the Grapevine area are related to the contacts between granite and the Precambrian Wyman formation. A small area of granite-Wyman contact lies within the boundary of the Queer Mountain WSA (see Figure 2).

SAMPLE COLLECTION AND ANALYTICAL TECHNIQUES

The geochemical survey included collecting stream sediment and panned concentrates from active drainage systems and rock samples from mines, prospects and outcrops within and along the margins of the WSA (see Figure 3). Stream sediment samples were collected from 4 or 5 different places along the active portion of the stream course at each sample site and sieved to minus 80 mesh. Approximately 100 grams of sample were retrieved from each dump site. At the same location, a second sample was collected from the stream course which consisted of 10-15 pound of minus 16 mesh stream sediment. The second sample was carried to a source of water where it was ultimately pan-concentrated to 100 grams. Rock samples were channeled from veins in mines, selected from dumps and prospects and chipped from outcrops. Rock samples were intentionally "hi-graded", and represent the best mineralized material that could be obtained at each rock sample site. Field and sampling assistance was provided by Norman L. Stevens. All of the samples were returned to Reno where they were prepared and analyzed in a portable laboratory by a team from the Branch of Exploration Geochemistry, U.S. Geological Survey, led by Rheinhart Leinz and David Grimes.

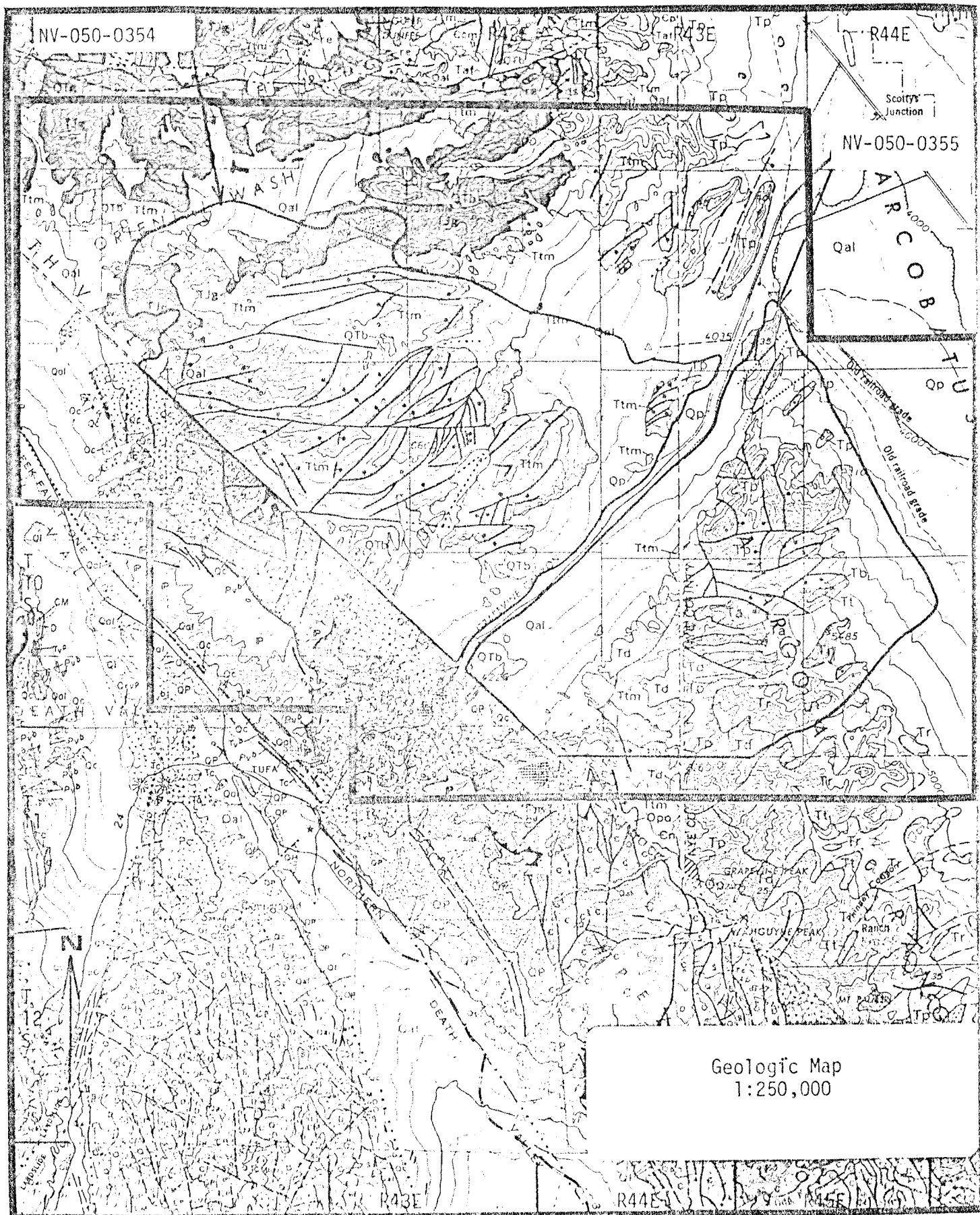
At the lab, the panned samples were further concentrated using bromoform and an electromagnet to first remove light minerals then to split the remaining heavy portion of the sample into three fractions, a highly magnetic, a moderately

INDEX MAP



Goldfield Sheet

Grapevine Canyon GRA



Albers and Stewart (1972):
Strand (1976): Cornwall (1972)

Grapevine Canyon GRA NV-21
Figure 2.

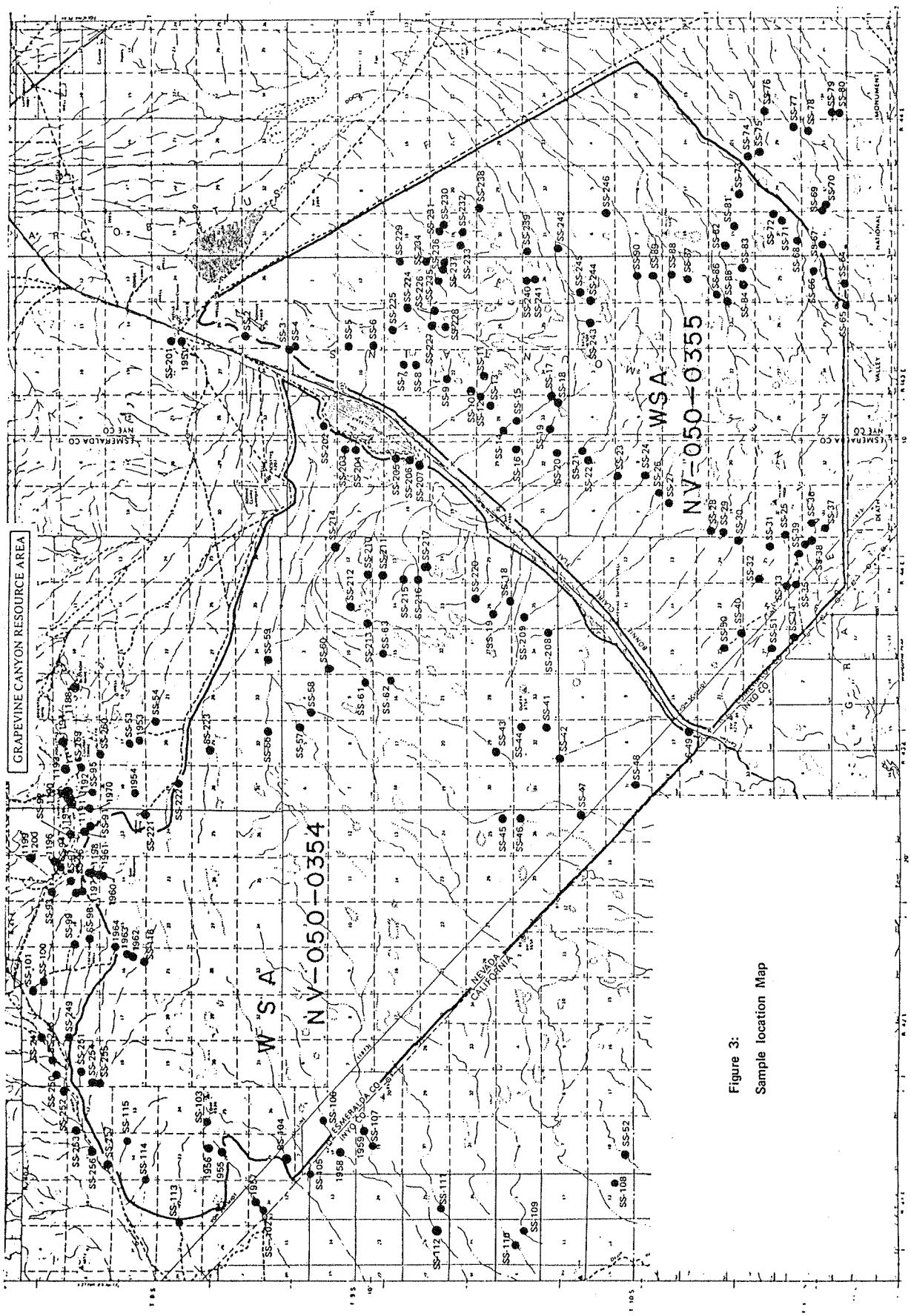


Figure 3:
Sample location Map

magnetic, and a non-magnetic fraction. The non-magnetic fraction was then prepared and analyzed along with the sediment and rock samples. All three sets of samples were then analyzed for 31 elements on an emission spectrograph. After reviewing the results, selected samples were further analyzed by atomic absorption or by other techniques to either improve detection limits or to analyze for additional elements. Figure 4 shows the limits of determination for the spectrographic analysis.

Figure 3 is a single map of all of the sample sites, while Figures 5-8 are panned concentrate sample sites keyed to show the concentration of individual elements at each site. Rock sample locations are presented in Figures 9 and 10.

Geochemical anomalies were established using the following criteria: significant concentrations of a given element that exceeded the background, the detection limit of the analysis, and a tertiary examination of cumulative frequency tables and percent frequency tables. For visual inspection and to observe spatial relationships, there are separate figures to show each of the elements.

LAND CLASSIFICATION FOR G-E-M RESOURCES POTENTIAL

Land classification areas have the prefix "M" and a number which merely designates various subdivision of the larger WSA's. In addition, a BLM classification number has been assigned to each of the small area. These numbers follow the classification scheme described in Figure 11. Land classifications have been made only on metallic resource potential based on our geochemical sampling results and on observations made by our field staff. Land classifications for non-metallic minerals, oil and gas, and geothermal areas, as well as information on leasable and saleable resources are found in the 1983 GEM report (Great Basin GEM Joint Venture).

Figure 4 Limits of determination for the spectrographic analysis of rocks
and stream sediments, based on a 10-mg sample.

Elements	Lower Determination Limit	Upper Determination Limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Calcium (Ca)	.05	20
Titanium (Ti)	.002	1
Parts per million		
Manganese (Mn)	10	5,000
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)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	20	1,000
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
Vanadium (V)	10	10,000
Tungsten (W)	50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000

MINERAL RESOURCE AREAS

Queer Mountain WSA (NV-050-0354)

Area M-1 is in and along the northern margin of the WSA and is classified as 3D (see Figure 12). Silver and gold values found in rock samples and molybdenum values found in panned concentrates define a zone of precious-metal mineralization approximately three miles wide and thirteen miles long. The precious-metal mineralization is in quartz veins associated with minor base-metal anomalies of lead, zinc and mercury and occurs along joints and fractures in the granites. The Wylie Green Mine and the Independence Claim group are a combination of old and new mine workings along the contact of the granites of Gold Mountain and the Wyman Formation of Cambrian age. The area has a history of minor tungsten production from a tactite zone (Albers and Stewart, 1972). Later production from these workings has been from quartz veins in the diorite. These were sampled and found to be anomalous in both base and precious metals (samples 1953 and 1954). The Silver Mountain area in the northwestern part of the WSA, includes sample sites 1955, 1956 and 1957 and SS102, SS103 but probably extends even further to the northeast than was sampled. Within the area are six adits and several shafts. Most of these are prospects or have had only minor production. They are high-grade precious metal deposits in quartz veins with minor values in base-metals, one tungsten anomaly occurs at site 1957. A third area of similar mineralization exists on the northern most edge of the WSA at sample sites 1962, 1963, 1964 and further to the east in a cluster around the older but more productive portion of the Gold Mountain district at sample sites 1960, 1961, 1183, 1190 and 1192. Clearly the better production is less than a mile to the northeast at the Big Blossom and Empress Mines. The same general area encompasses a very large scale thorium anomaly of unknown origin, that is almost entirely within the granites (see Figures 5-10).

Area M-2 is in the southeastern portion of the WSA and has been classified as 3D (see Figure 12). It has no reported mining history nor are there any signs of prospecting in the area. The area of interest is semi-circular in shape, around a topographic high of about 8-10 square miles within which are eight different stream courses with silver anomalies. The anomalous concentrations are from the heavy metal fractions of panned concentrates and range in value from 3-100ppm. These panned concentrated silver values represent the biggest clustering and highest values from any of the WSA's sampled by NBMG on this project (see Figure 8).

Area M-3 is along the west-central portion of the WSA and has been classified as 3C (see Figure 12). Six different drainages form within the WSA produced barium anomalies in excess of 3000ppm (sample sites 102, 103, 104, 105, 106 and 107). Such barium concentrations may indicate the presence of vein deposits associated with Tertiary intrusive rocks (see Figure 6).

Area M-4 has a north-south configuration thru the central part of the WSA and is classified 2B (see Figure 12). The rocks are mostly a single ash flow member of the Timber Mountain Tuff with minor basalt flow along the southern flank. The geochemical results showed a very low potential for this part of the WSA. However, the margins of the anomalous areas may very well expand in the center of the WSA especially those areas adjacent to M-2 and M-3 (see Figures 5-10).

Grapevine Mountains WSA (NV-050-0355)

Area M-1 is along the southwestern part of the WSA and is classified 3C (see Figure 12). The rock is comprised mainly of rhyolite flows and tuffs of Tertiary age, but a small outcrop of Mesozoic granites is found in the area of Helmet Peak. Three drainages flowing away from the intrusive have barium values exceeding 1500ppm while six others have values exceeding 3000ppm. Vein systems associated with the intrusive may account for these anomalies (see Figure 6).

Area M-2, the remaining portion of the WSA, is classified as 2B (see Figure 12). The rocks in the area consist of rhyolite, rhyodacite and dacite flows along with ash flow tuffs all of which are Tertiary age. The sample density was high for this area but showed no significant anomalies (see Figures 5-10).

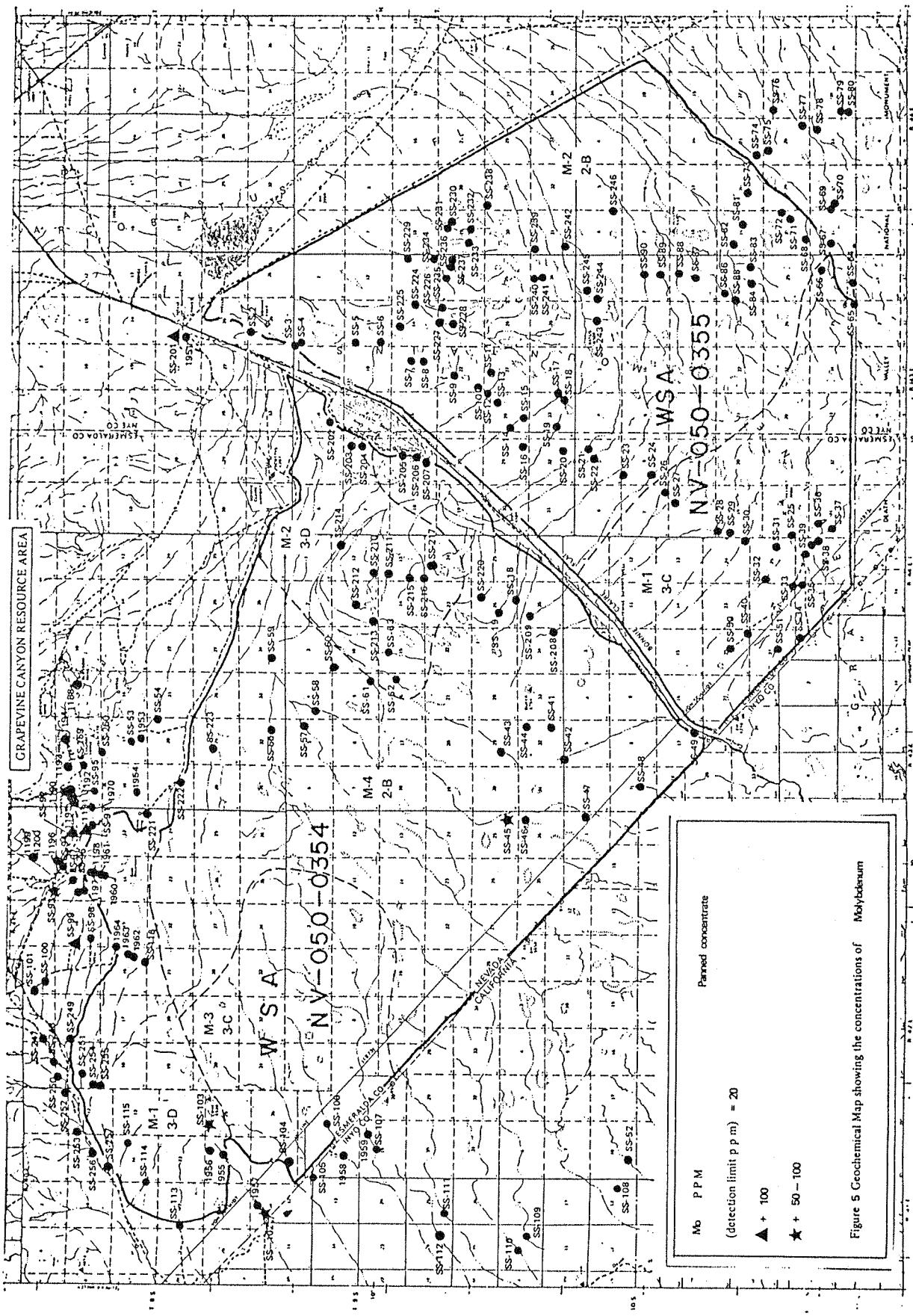
RECOMMENDATIONS AND SUGGESTIONS

1. If further clarification of our data would be helpful we would be willing to make a traverse of the area with the BLM area geologist.
2. Field check the M-2 area in the Queer Mountain WSA to confirm, by sampling, the source of the precious metal mineralization in either the sediment or rocks.
3. Run a single traverse up the drainages of the M-3 area of the Queer Mountain WSA to attempt to locate the source of the barium anomalies.
4. Do a mineral identification on the non-magnetic fraction of the heavy mineral concentrates to possibly identify the source for the high thorium anomaly in the M-1 area of the Queer Mountain WSA.

SELECTED REFERENCES

Albers, J. P., and Stewart, J. H., 1972, Geology and Mineral Deposits of Esmeralda County, Nevada: NBMG Bull. 78.

Great Basin GEM Joint Venture, 1983, Grapevine Canyon G-E-M Resources Area (GRA No, NV-21): Technical Report (WSA's 050-0354 and 050-0355), unpub. report for BLM.



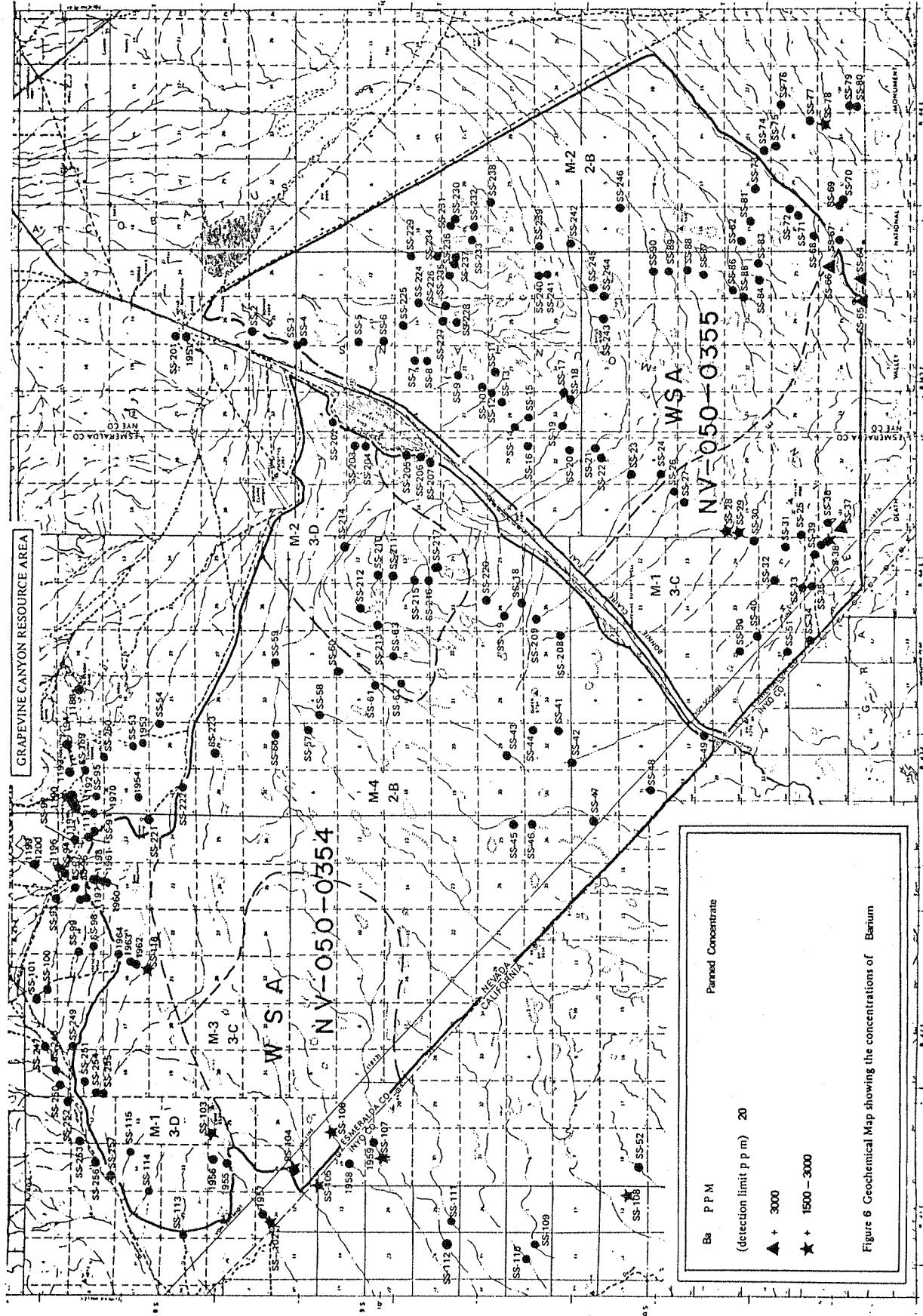


Figure 6 Geochemical Map showing the concentrations of Barium

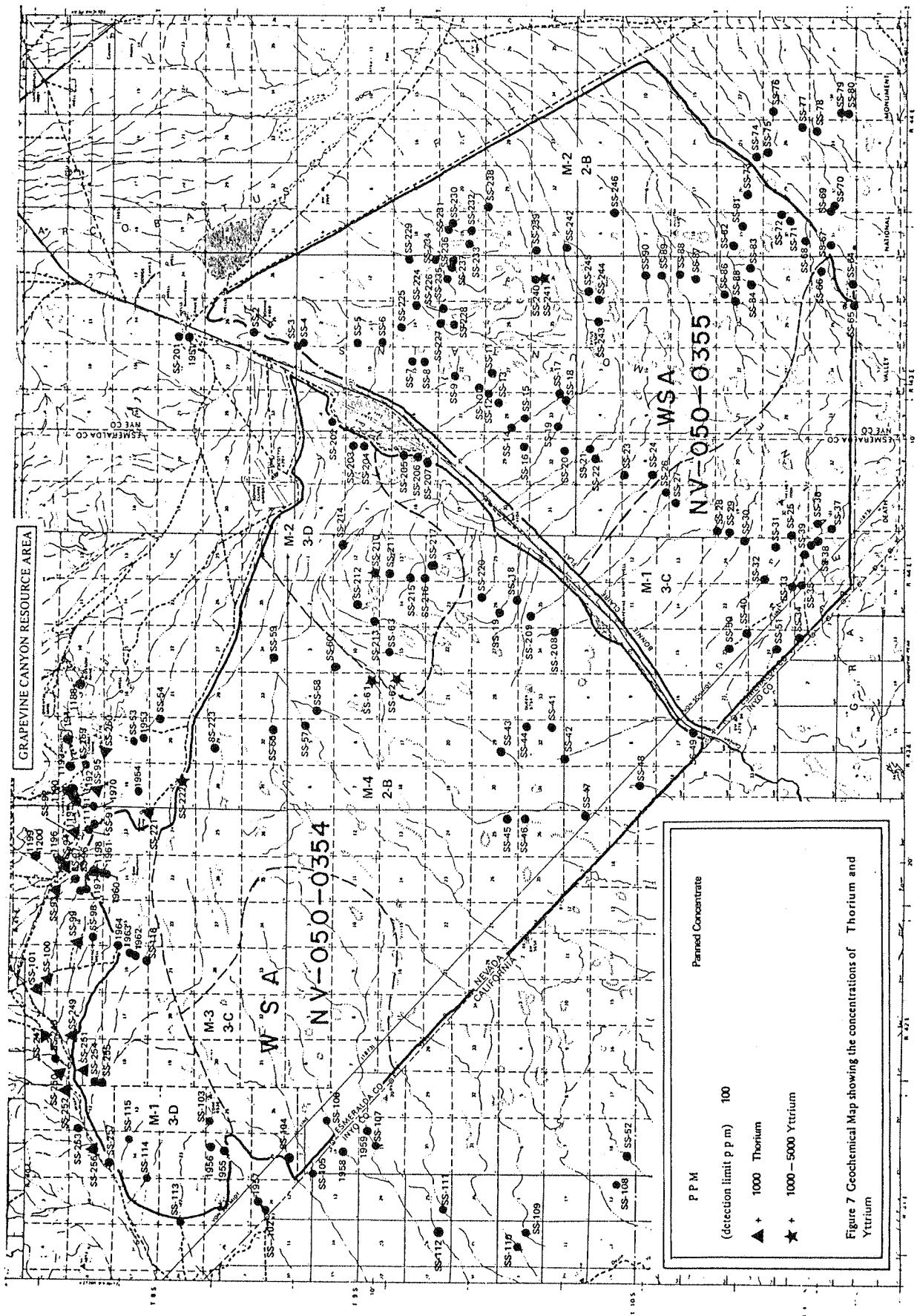


Figure 7 Geochemical Map showing the concentrations of Thorium and Yttrium

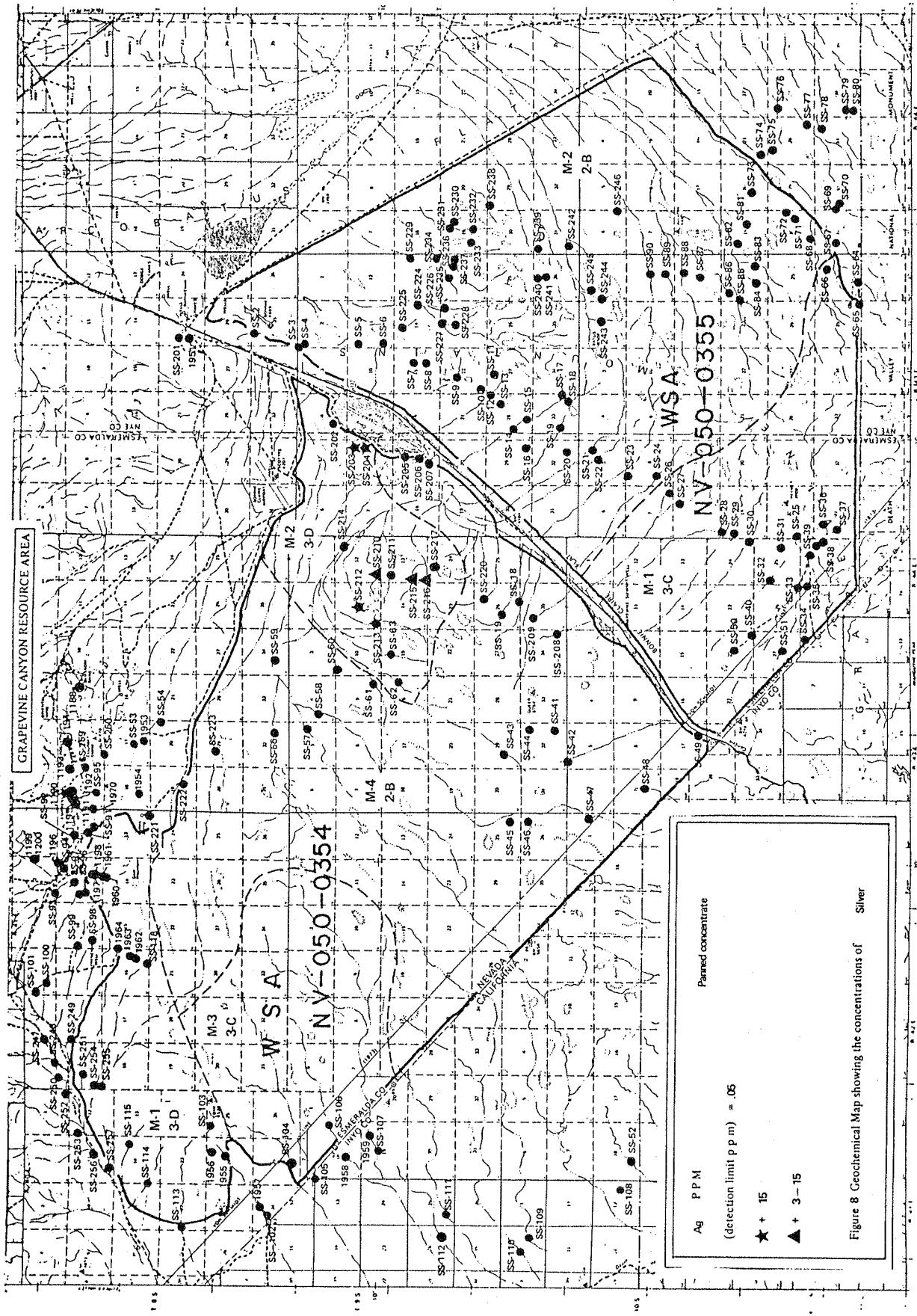


Figure 8 Geochemical Map showing the concentrations of Silver

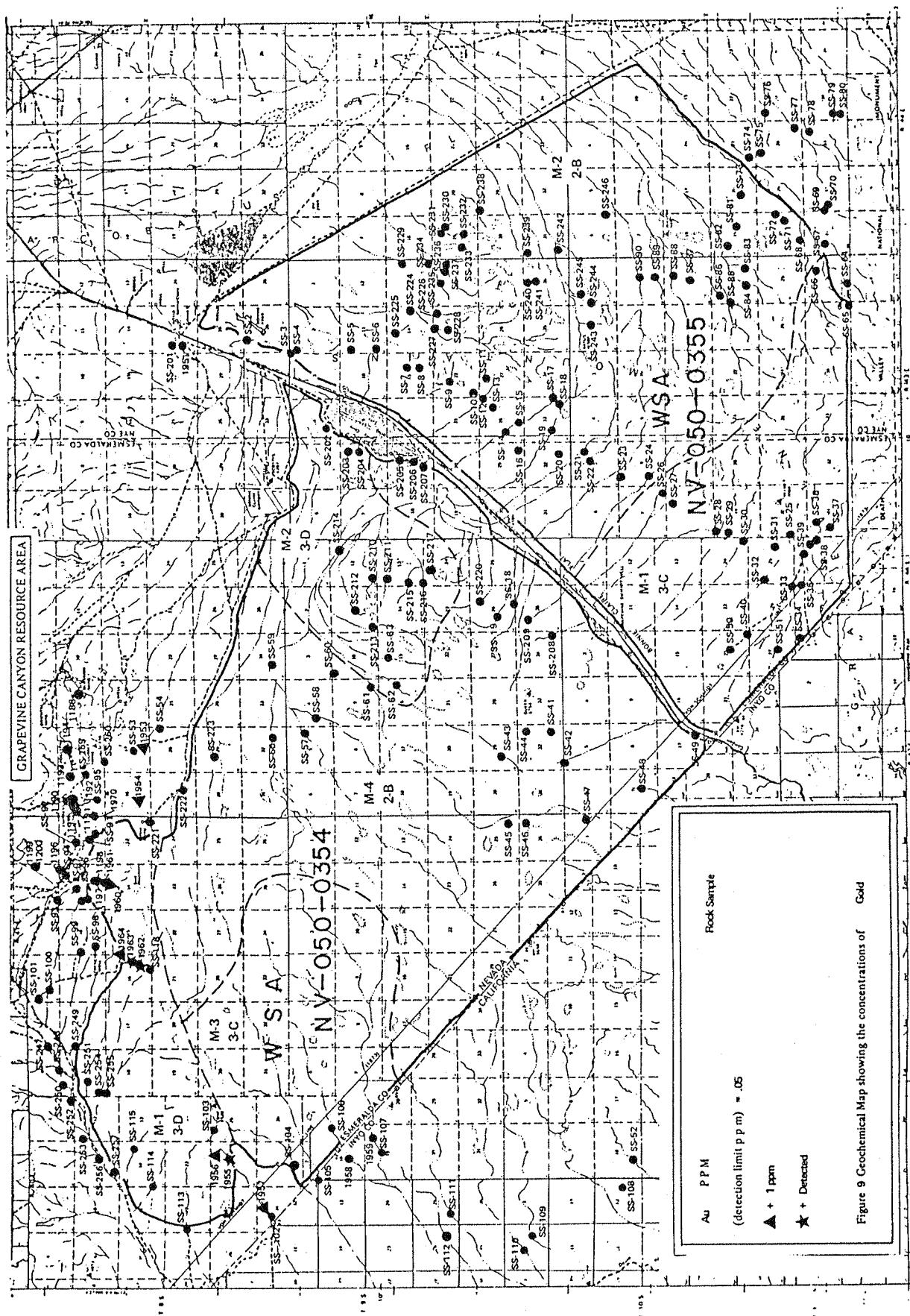


Figure 9 Geochemical Map showing the concentrations of Gold

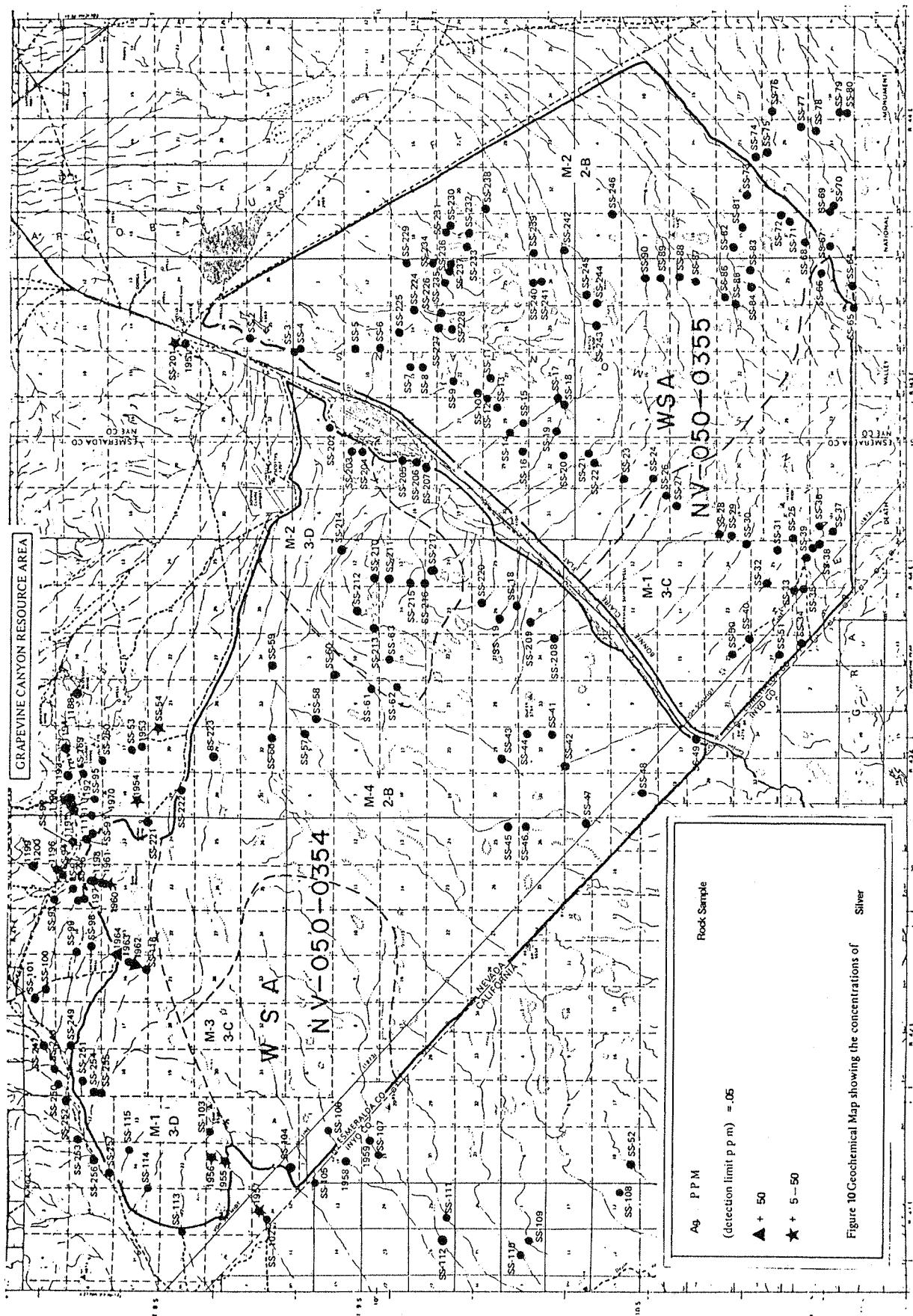


Figure 10 Geochemical Map showing the concentrations of

Figure 11

CLASSIFICATION SCHEME

1. The geologic environment and the inferred geologic processes do not indicate favorability for accumulation of mineral resources.
2. The geologic environment and the inferred geologic processes indicate low favorability for accumulation of mineral resources.
3. The geologic environment, the inferred geologic processes, and the reported mineral occurrences indicate moderate favorability for accumulation of mineral resources.
4. The geologic environment, the inferred geologic processes, and the reported mineral occurrences, and the known mines or deposits indicate high favorability for accumulation of mineral resources.

LEVEL OF CONFIDENCE SCHEME

- A. The available data are either insufficient and/or cannot be considered as direct evidence to support or refute the possible existence of mineral resources within the respective area.
- B. The available data provide indirect evidence to support or refute the possible existence of mineral resources.
- C. The available data provide direct evidence, but are quantitatively minimal to support or refute the possible existence of mineral resources.
- D. The available data provide abundant direct and indirect evidence to support or refute the possible existence of mineral resources.

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada

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

Sample	X coor-dinate	Y coor-dinate	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
	s	s	s	s	s	s	s	s	s	s	s	s	s
SS1	49,055	411,830	5	.7	1.5	.5	1,000	<.5	N	N	50	500	1.0
SS10	48,090	410,969	5	.7	1.5	.5	700	N	N	N	70	700	1.0
SS100	46,650	412,470	5	1.0	1.5	.5	700	N	N	N	30	500	1.5
SS101	46,610	412,510	3	.7	1.5	.3	500	N	N	N	50	500	1.5
SS102	45,880	411,740	2	.7	2.0	.3	500	N	N	N	50	700	1.5
SS103	46,100	411,880	7	.7	1.5	.5	700	N	N	N	30	500	1.0
SS104	45,980	411,618	3	1.0	2.0	.3	500	N	N	N	30	1,000	1.5
SS105	45,920	411,550	3	1.0	2.0	.5	500	N	N	N	50	700	1.5
SS106	46,010	411,485	3	1.0	2.0	.3	500	N	N	N	70	700	1.0
SS107	46,090	411,340	3	1.0	2.0	.3	500	N	N	N	50	500	1.5
SS108	45,850	410,520	2	2.0	5.0	.2	500	N	N	N	30	300	1.0
SS109	45,720	410,790	2	1.5	5.0	.3	500	N	N	N	30	500	1.0
SS11	48,751	410,930	2	.7	1.5	.5	500	N	N	N	70	500	1.5
SS110	45,080	410,620	3	1.5	2.0	.3	700	N	N	N	30	500	1.5
SS111	45,770	411,020	3	1.0	1.5	.5	700	N	N	N	30	500	1.5
SS112	45,770	411,120	3	1.0	1.5	.5	700	N	N	N	20	500	1.0
SS113	45,760	412,000	2	.7	1.5	.3	500	N	N	N	20	500	1.5
SS114	45,910	412,120	3	.5	1.5	.5	500	N	N	N	30	500	1.5
SS115	46,010	412,200	3	1.0	2.0	.3	500	N	N	N	30	500	1.5
SS116	46,040	412,100	3	1.0	1.5	.3	500	N	N	N	30	500	1.5
SS12	46,075	410,930	2	.7	1.5	.3	500	N	N	N	70	500	1.0
SS13	46,040	410,910	2	.7	1.0	.3	700	N	N	N	50	700	1.5
SS14	46,050	410,860	2	.5	1.5	.3	500	N	N	N	50	500	1.5
SS15	48,581	410,820	3	.7	1.5	.5	700	N	N	N	30	500	1.0
SS16	48,490	410,821	2	.7	1.5	.5	700	N	N	N	50	500	1.0
SS17	48,009	410,690	3	.7	1.5	.5	500	N	N	N	50	500	1.0
SS18	48,050	410,650	5	.7	1.5	.7	1,000	N	N	N	50	500	1.0
SS19	48,560	410,690	2	.7	1.5	.3	500	<.5	N	N	70	500	1.5
SS2	48,990	411,755	3	.7	1.5	.3	700	N	N	N	70	500	1.5
SS20	48,507	410,659	2	.7	1.5	.3	700	N	N	N	70	500	1.5
SS201	48,841	412,013	2	.7	1.5	.2	500	N	N	N	50	500	1.5
SS202	48,560	411,476	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS203	48,490	411,440	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS204	48,488	411,371	3	1.0	1.5	.5	700	N	N	N	30	500	1.5
SS205	48,400	411,253	3	1.0	1.5	.3	700	N	N	N	30	500	1.0
SS206	48,450	411,141	5	1.0	1.5	.5	700	N	N	N	30	500	1.0
SS207	48,433	411,140	3	1.0	1.5	.3	500	N	N	N	30	500	1.5
SS208	47,849	410,680	3	1.5	2.0	.5	700	N	N	N	20	500	1.0
SS209	47,920	410,736	3	1.0	1.5	.5	700	N	N	N	50	500	1.5
SS21	48,480	410,588	5	1.0	2.0	.5	700	N	N	N	70	700	1.0
SS210	48,050	411,320	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS211	48,035	411,275	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS212	47,930	411,400	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS213	47,870	411,350	2	1.0	1.5	.3	500	N	N	N	30	500	1.0

SS214 48,136 411,442 3 1.0 1.5 .3 700 N N N 50 500 1.5

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
SS1	N	N	15	50	15	100	<5	N	20	30	N	7
SS10	N	N	10	70	10	30	N	N	20	30	N	7
SS100	N	N	15	50	15	30	N	N	15	20	N	10
SS101	N	N	15	50	15	70	N	N	15	20	N	7
SS102	N	N	10	70	15	30	7	N	15	20	N	7
SS103	N	N	20	70	20	50	N	N	10	15	N	7
SS104	N	NN	15	20	15	30	5	N	15	30	N	7
SS105	N	NN	15	50	15	30	N	N	15	20	N	7
SS106	N	NN	15	30	15	50	N	N	10	20	N	7
SS107	N	N	10	30	20	30	N	N	10	20	N	5
SS108	N	N	10	30	15	20	N	N	15	20	N	5
SS109	N	NN	10	50	10	30	N	N	15	15	N	7
SS11	N	NN	10	50	10	50	N	N	15	30	N	7
SS110	N	NN	15	70	15	30	N	N	20	20	N	7
SS111	N	N	15	50	15	30	N	N	20	30	N	10
SS112	N	N	15	70	15	30	N	N	20	20	N	7
SS113	N	NN	7	30	15	50	N	N	10	30	N	5
SS114	N	NN	10	30	15	50	N	<20	10	30	N	7
SS115	N	NN	10	50	20	50	N	N	15	30	N	7
SS116	N	N	15	50	20	50	N	N	20	50	N	10
SS12	N	N	7	20	7	50	N	N	10	30	N	5
SS13	N	NN	7	20	7	50	N	N	10	30	N	5
SS14	N	NN	10	30	10	50	N	N	15	30	N	5
SS15	N	NN	10	50	15	50	N	N	15	20	N	7
SS16	N	N	10	50	15	100	N	N	15	30	N	7
SS17	N	N	10	50	15	50	N	N	15	30	N	7
SS18	N	NN	15	70	15	100	N	N	15	20	N	10
SS19	N	N	10	50	15	30	N	N	15	20	N	7
SS2	N	RN	10	50	10	50	N	N	15	30	N	7
SS20	N	N	10	30	10	20	N	N	15	20	N	7
SS201	N	N	10	30	20	50	<5	N	10	300	N	5
SS202	N	NN	10	30	15	30	N	N	15	50	N	7
SS203	N	NN	10	50	10	30	N	N	10	20	N	7
SS204	N	NN	15	70	15	50	N	N	15	30	N	7
SS205	N	N	15	50	15	30	N	N	20	30	N	7
SS206	N	NN	15	100	15	100	N	N	20	20	N	10
SS207	N	NN	10	30	15	20	N	N	15	50	N	7
SS208	N	NN	15	100	20	70	N	N	20	20	N	10
SS209	N	N	10	50	15	30	N	N	15	20	N	7
SS21	N	N	15	70	15	30	N	N	15	20	N	7
SS210	N	N	7	30	10	30	N	N	10	30	N	5
SS211	N	NN	10	30	15	50	N	N	10	50	N	7
SS212	N	N	10	70	15	30	N	<20	15	30	N	7
SS213	N	N	10	30	15	30	N	N	10	30	N	7
SS214	N	N	15	70	15	30	N	N	15	30	N	7

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	As-ppm aa	Zn-ppm aa	Sb-ppm aa
SS1	N	500	70	N	30	N	200	N	<5	90	N
SS10	N	300	50	N	20	N	150	N	5	35	2
SS100	N	300	70	N	20	N	200	N	10	80	N
SS101	N	300	50	N	20	N	150	N	10	70	N
SS102	N	500	50	N	15	N	100	N	5	45	N
SS103	N	300	150	N	20	N	500	N	10	70	N
SS104	N	500	50	N	20	N	150	N	10	45	N
SS105	N	300	50	N	20	N	150	N	10	45	N
SS106	N	300	50	N	20	N	200	N	10	50	N
SS107	N	200	50	N	15	N	150	N	5	40	N
SS108	N	300	30	N	15	N	70	N	10	40	N
SS109	N	500	50	N	15	N	150	N	10	40	N
SS11	N	200	50	N	20	N	150	N	5	35	N
SS110	N	500	50	N	20	N	150	N	5	55	N
SS111	N	500	50	N	20	N	150	N	10	60	N
SS112	N	300	50	N	20	N	100	N	5	60	N
SS113	N	300	30	N	15	N	100	N	10	40	N
SS114	N	300	50	N	30	N	300	N	10	60	N
SS115	N	300	50	N	20	N	150	N	10	65	N
SS116	N	300	50	N	20	N	150	N	15	90	N
SS12	N	200	30	N	20	N	150	N	<5	25	N
SS13	N	200	30	N	30	N	150	N	<5	35	<2
SS14	N	300	50	N	20	N	200	N	5	40	<2
SS15	N	300	50	N	20	N	150	N	5	70	<2
SS16	N	300	50	N	20	N	150	N	5	45	<2
SS17	N	300	50	N	20	N	150	N	5	40	<2
SS18	N	300	70	N	30	<200	200	N	5	100	N
SS19	N	300	50	N	20	N	150	N	10	35	<2
SS20	N	500	50	N	20	N	150	N	<5	40	2
SS20	N	300	30	N	20	N	150	N	10	40	<2
SS201	N	200	30	N	15	<200	100	N	20	100	6
SS202	N	300	50	N	15	N	100	N	5	45	N
SS203	N	300	50	N	15	N	100	N	5	50	N
SS204	N	300	50	N	20	N	150	N	5	65	N
SS205	N	300	50	N	20	N	150	N	5	50	N
SS206	N	300	70	N	30	N	150	N	10	50	N
SS207	N	200	30	N	20	N	100	N	5	50	N
SS208	N	500	70	N	20	N	150	N	5	70	N
SS209	N	300	50	N	20	N	150	N	5	60	N
SS21	N	500	70	N	30	N	200	N	10	65	N
SS210	N	300	30	N	20	N	100	N	5	55	N
SS211	N	200	30	N	20	N	150	N	5	50	N
SS212	N	200	50	N	20	N	150	N	5	50	N
SS213	N	300	50	N	15	N	100	N	5	50	N
SS214	N	300	50	N	20	N	150	N	5	50	N

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
SS215	48°030	411°205	3	1.0	2.0	.3	700	N	N	N	30	500	1.0
SS216	48°021	411°550	2	1.0	1.5	.3	500	N	N	N	30	500	1.0
SS217	48°066	411°129	3	1.0	1.5	.5	700	N	N	N	30	500	1.0
SS218	48°019	410°809	2	1.0	2.0	.3	500	N	N	N	50	500	1.0
SS219	48°012	410°808	2	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS22	48°470	410°531	3	.7	1.5	.5	700	N	N	N	50	700	1.0
SS220	47°970	410°930	3	1.0	2.0	.5	700	N	N	N	30	500	1.5
SS221	47°180	412°140	5	1.0	2.0	.5	700	N	N	N	20	500	2.0
SS222	47°260	412°040	2	.7	1.5	.3	500	N	N	N	30	700	1.5
SS223	47°460	411°900	3	1.0	1.5	.5	700	N	N	N	30	500	1.5
SS224	48°960	411°140	2	.7	1.5	.3	500	N	N	N	50	700	1.0
SS225	48°900	411°235	3	1.0	2.0	.3	500	N	N	N	50	700	1.5
SS226	48°980	411°130	3	1.0	1.5	.3	700	N	N	N	50	500	1.0
SS227	48°940	411°132	2	1.0	1.5	.3	700	N	N	N	50	700	1.5
SS228	48°910	411°070	3	1.0	1.5	.5	700	N	N	N	30	700	1.5
SS229	49°150	411°220	2	1.0	2.0	.3	300	N	N	N	30	700	1.5
SS23	48°402	410°471	3	.7	1.5	.5	700	N	N	N	50	700	1.0
SS230	49°268	411°070	2	1.0	2.0	.3	500	N	N	N	50	700	1.0
SS231	49°268	411°080	3	1.0	2.0	.3	700	N	N	N	30	700	1.5
SS232	49°250	411°011	3	1.0	2.0	.3	700	N	N	N	30	500	1.0
SS233	49°219	411°020	3	.7	2.0	.5	500	N	N	N	50	700	1.5
SS234	49°164	411°121	2	1.0	1.5	.3	300	N	N	N	30	500	1.5
SS235	49°090	411°100	3	.7	1.5	.5	500	N	N	N	30	500	1.5
SS236	49°140	411°060	2	.7	1.5	.3	500	N	N	N	30	500	1.5
SS237	49°150	411°061	3	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS238	49°544	410°940	2	1.0	1.5	.3	700	N	N	N	50	500	1.5
SS239	49°160	410°800	3	.7	1.5	.3	500	N	N	N	30	500	1.5
SS24	48°400	410°350	3	1.0	2.0	.5	700	N	N	N	50	700	1.0
SS240	49°375	410°790	3	.7	1.5	.3	500	N	N	N	30	500	1.5
SS241	49°060	410°780	3	.7	1.5	.5	700	N	N	N	30	500	1.5
SS242	49°200	410°670	3	1.0	1.5	.3	700	N	N	N	50	500	1.5
SS243	48°934	410°570	3	1.0	1.5	.5	700	N	N	N	30	700	1.5
SS244	49°024	410°590	3	.7	1.5	.3	500	N	N	N	30	500	1.5
SS245	49°030	410°600	3	1.0	1.5	.3	500	N	N	N	30	500	1.5
SS246	49°300	410°510	3	1.0	1.5	.5	500	N	N	N	30	700	1.5
SS247	40°430	412°520	3	1.0	2.0	.3	700	2.0	N	N	50	500	5.0
SS248	40°331	412°440	3	1.0	2.0	.3	500	<.5	N	N	50	500	2.0
SS249	40°425	412°360	3	1.0	1.5	.3	500	N	N	N	50	500	1.5
SS25	48°171	409°880	3	1.0	2.0	.5	700	N	N	N	50	1,000	1.0
SS250	40°260	412°420	3	1.0	1.5	.3	500	.5	N	N	30	500	1.5
SS251	40°330	412°340	3	1.0	1.5	.3	500	N	N	N	20	500	1.5
SS252	40°234	412°405	3	1.0	1.5	.3	500	N	N	N	30	500	1.5
SS253	40°200	412°370	5	1.0	1.5	.3	500	N	N	N	30	500	1.5
SS254	40°250	412°305	3	1.0	1.5	.3	500	N	N	N	30	700	1.5
SS255	40°240	412°300	3	1.0	1.5	.3	700	N	N	N	30	500	1.5

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
SS215	N	N	10	70	15	50	N	N	15	20	N	7
SS216	N	N	10	30	10	30	5	N	15	30	N	7
SS217	N	N	15	30	15	70	5	N	15	20	N	7
SS218	N	N	15	30	15	20	N	N	15	30	N	7
SS219	N	N	10	30	15	30	N	N	15	30	N	7
SS22	N	N	15	50	15	50	N	<20	15	30	N	7
SS220	N	N	10	50	15	50	N	N	15	20	N	7
SS221	N	N	15	70	20	100	N	N	20	50	N	10
SS222	N	N	10	30	15	50	N	N	10	50	N	5
SS223	N	N	10	50	10	70	N	N	15	20	N	7
SS224	N	N	7	30	15	30	N	N	15	30	N	7
SS225	N	N	10	50	15	30	N	N	15	30	N	7
SS226	N	N	10	30	15	50	N	N	15	20	N	7
SS227	N	N	10	30	15	70	N	N	10	20	N	7
SS228	N	N	15	50	15	70	N	N	15	30	N	10
SS229	N	N	10	50	15	30	N	N	15	50	N	7
SS23	N	N	15	50	15	50	N	N	10	20	N	7
SS230	N	N	10	30	10	30	N	N	10	20	N	5
SS231	N	N	10	30	15	50	N	N	10	50	N	7
SS232	N	N	10	50	15	30	N	N	10	20	N	7
SS233	N	N	10	50	15	30	N	N	15	30	N	7
SS234	N	N	10	30	15	20	N	N	10	30	N	5
SS235	N	N	10	30	15	50	N	N	10	30	N	7
SS236	N	N	10	30	15	30	N	N	10	20	N	7
SS237	N	N	10	30	15	30	N	N	10	20	N	7
SS238	N	N	7	20	15	50	N	N	10	30	N	5
SS239	N	N	7	20	10	30	N	N	7	30	N	5
SS24	N	N	15	50	15	30	N	N	10	20	N	7
SS240	N	N	10	30	15	30	5	N	15	30	N	5
SS241	N	N	10	30	10	50	N	N	10	15	N	7
SS242	N	N	10	50	15	50	N	N	10	30	N	7
SS243	N	N	15	50	15	30	N	N	10	20	N	7
SS244	N	N	10	30	15	50	N	N	10	20	N	7
SS245	N	N	10	50	15	70	N	N	10	20	N	7
SS246	N	N	15	30	15	50	N	N	15	20	N	7
SS247	N	N	15	50	30	30	N	N	15	150	N	7
SS248	N	N	15	30	20	30	N	N	15	30	N	7
SS249	N	N	10	50	15	30	N	N	15	30	N	7
SS25	N	N	20	30	15	50	N	N	10	20	N	10
SS250	N	N	15	50	20	70	N	N	15	50	N	7
SS251	N	N	10	50	15	50	N	N	15	20	N	7
SS252	<10	N	15	50	20	30	10	N	20	70	N	7
SS253	N	N	20	50	20	50	N	N	15	50	N	7
SS254	N	N	15	50	15	30	N	N	15	70	N	7
SS255	N	N	15	50	15	50	N	N	15	20	N	7

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	As-ppm aa	Zn-ppm aa	Sb-ppm aa
SS215	N	300	50	N	30	N	100	N	10	70	N
SS216	N	200	30	N	20	N	200	N	5	50	N
SS217	N	300	50	N	30	N	200	N	10	75	N
SS218	N	300	30	N	20	N	150	N	10	70	N
SS219	N	300	50	N	20	N	150	N	10	65	N
SS22	N	500	50	N	30	N	200	N	10	50	<2
SS220	N	300	50	N	30	N	200	N	10	65	N
SS221	N	500	50	N	30	N	200	N	10	100	N
SS222	N	200	30	N	20	N	200	N	10	55	N
SS223	N	200	50	N	20	N	200	N	5	100	N
SS224	N	300	30	N	20	N	150	N	10	55	N
SS225	N	300	50	N	20	N	150	N	10	70	N
SS226	N	300	50	N	20	N	150	N	10	70	N
SS227	N	300	50	N	20	N	150	N	10	50	N
SS228	N	300	50	N	20	N	150	N	10	50	N
SS229	N	300	30	N	15	N	100	N	10	35	N
SS23	N	500	50	N	20	N	150	N	10	60	N
SS230	N	300	30	N	15	N	100	N	5	45	N
SS231	N	300	50	N	20	N	150	N	10	50	N
SS232	N	300	30	N	20	N	150	N	10	60	N
SS233	N	300	30	N	20	N	150	N	10	55	N
SS234	N	300	30	N	15	N	100	N	10	60	N
SS235	N	300	30	N	20	N	150	N	10	60	N
SS236	N	300	30	N	15	N	150	N	10	55	N
SS237	N	300	30	N	20	N	200	N	10	50	N
SS238	N	500	50	N	20	N	150	N	10	45	N
SS239	N	300	30	N	20	N	150	N	5	40	N
SS24	N	500	50	N	30	N	200	N	10	50	N
SS240	N	200	30	N	20	N	100	N	20	40	N
SS241	N	300	50	N	20	N	150	N	10	45	N
SS242	N	200	50	N	20	N	200	N	10	55	N
SS243	N	200	50	N	20	N	150	N	10	50	N
SS244	N	200	30	N	20	N	150	N	10	50	N
SS245	N	300	50	N	30	N	150	N	10	60	N
SS246	N	500	50	N	20	N	200	N	10	60	N
SS247	N	200	50	N	15	N	150	N	25	120	N
SS248	N	300	50	N	20	N	150	N	10	70	N
SS249	N	300	30	N	20	N	150	N	15	50	N
SS25	N	300	70	N	30	N	200	N	15	65	<2
SS250	N	200	50	N	20	N	150	N	15	55	N
SS251	N	300	50	N	20	N	200	N	10	60	N
SS252	N	300	50	N	15	N	150	N	15	60	N
SS253	N	300	50	N	20	N	200	N	10	70	N
SS254	N	300	50	N	20	N	200	N	10	60	N
SS255	N	300	70	N	20	N	300	N	10	130	N

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor- dinate	Y coor- dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
SS256	46,030	412,300	5	1.0	1.5	.5	500	N	N	N	30	500	1.5
SS257	45,985	412,600	3	1.0	2.0	.3	700	N	N	N	30	500	1.5
SS259	47,360	412,350	2	.7	1.5	.3	500	N	N	N	50	500	1.5
SS26	46,342	410,319	3	1.0	2.0	.5	700	N	N	N	50	1,000	1.5
SS260	47,400	412,300	3	.7	1.5	.3	700	N	N	N	30	500	1.5
SS261	42,540	418,360	2	.7	1.5	.3	500	N	N	N	50	500	1.5
SS262	42,500	418,320	3	.7	1.5	.3	500	N	N	N	50	700	1.5
SS27	46,200	410,290	3	1.0	1.5	.5	700	N	N	N	50	700	1.0
SS28	48,200	410,140	5	1.0	2.0	.5	700	N	N	N	50	700	1.0
SS29	48,200	410,100	5	1.0	3.0	.7	1,000	N	N	N	50	1,000	1.5
SS3	48,735	411,600	2	.7	1.5	.5	700	N	N	N	70	700	1.5
SS30	48,171	410,031	3	1.0	2.0	.7	1,000	N	N	N	50	1,000	1.0
SS31	46,135	409,949	5	1.0	2.0	.7	700	N	N	N	30	1,000	1.0
SS32	48,030	409,969	5	.7	2.0	.7	1,000	N	N	N	50	700	1.0
SS33	47,999	409,850	3	1.0	2.0	.7	700	N	N	N	50	700	1.5
SS34	47,859	409,841	5	1.0	2.0	.7	700	N	N	N	50	700	1.0
SS35	47,995	409,849	2	1.0	2.0	.5	500	N	N	N	70	700	1.5
SS36	46,215	409,780	3	1.0	1.5	.5	1,000	N	N	N	30	700	1.0
SS37	48,185	409,755	2	.7	2.0	.5	700	N	N	N	50	700	1.5
SS38	46,178	409,790	3	1.0	1.5	.5	700	N	N	N	50	700	1.5
SS39	48,130	409,827	5	1.0	2.0	.7	700	N	N	N	30	1,000	1.0
SS4	46,832	411,585	3	.7	1.5	.5	700	N	N	N	100	700	1.5
SS40	47,650	410,030	5	1.0	2.0	.7	700	N	N	N	50	700	1.0
SS41	47,521	410,720	3	1.0	2.0	.5	700	N	N	N	50	700	1.0
SS42	47,410	410,620	3	1.0	2.0	.5	1,000	N	N	N	70	700	1.0
SS43	47,300	410,841	2	1.0	2.0	.3	700	N	N	N	70	700	1.5
SS44	47,510	410,810	15	1.0	1.5	.7	1,500	N	N	N	50	300	1.0
SS45	47,220	410,820	3	1.0	1.5	.3	700	N	N	N	50	700	1.0
SS46	47,180	410,800	3	1.0	2.0	.3	500	N	N	N	70	500	1.0
SS47	47,210	410,610	3	1.5	2.0	.5	700	N	N	N	70	700	1.0
SS48	47,290	410,340	2	1.0	2.0	.3	500	N	N	N	70	500	1.0
SS49	47,480	410,200	3	1.0	2.0	.7	700	N	N	N	50	700	1.0
SS5	46,655	411,390	2	.7	1.5	.5	1,000	N	N	N	70	700	1.5
SS50	47,030	410,090	3	1.0	2.0	.5	700	N	N	N	70	700	1.0
SS51	47,680	409,960	2	1.0	2.0	.3	500	N	N	N	50	500	1.5
SS52	45,900	410,420	5	1.5	3.0	.5	700	N	N	N	50	500	1.0
SS53	47,480	412,180	2	.5	1.0	.3	700	N	N	N	30	500	2.0
SS54	47,540	412,080	3	.7	1.5	.3	700	N	N	N	50	300	2.0
SS55	47,740	411,800	3	.7	2.0	.3	700	N	N	N	50	500	1.5
SS56	47,490	411,030	3	1.0	2.0	.5	700	N	N	N	50	500	1.5
SS57	47,550	411,580	5	1.5	2.0	.7	700	N	N	N	50	500	1.0
SS58	47,570	411,560	3	1.0	2.0	.5	500	N	N	N	70	500	1.5
SS59	47,700	411,680	3	1.0	2.0	.5	700	N	N	N	50	500	1.0
SS6	46,810	411,315	3	.7	2.0	.3	700	N	N	N	50	700	1.0
SS60	47,730	411,500	2	.7	1.5	.3	700	N	N	N	50	500	1.0

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
SS256	N	N	15	50	20	50	N	N	15	50	N	7
SS257	N	N	15	50	15	70	N	N	15	30	N	7
SS259	N	N	15	50	15	20	N	N	15	30	N	7
SS26	N	N	15	30	15	50	N	N	15	30	N	7
SS260	N	N	10	30	15	20	N	N	15	50	N	7
SS261	N	N	10	20	10	20	N	N	10	50	N	5
SS262	N	N	10	50	15	30	N	N	15	30	N	7
SS27	N	N	15	50	15	30	N	<20	15	30	N	7
SS28	N	N	15	30	20	50	N	N	15	30	N	10
SS29	N	N	15	50	20	50	N	N	15	20	N	10
SS3	N	N	10	30	10	70	N	N	15	20	N	7
SS30	N	N	15	50	15	50	N	N	15	20	N	10
SS31	N	N	20	30	15	50	N	N	10	20	N	10
SS32	N	N	15	70	15	30	N	N	10	20	N	7
SS33	N	N	15	50	15	30	N	<20	15	20	N	7
SS34	N	N	15	50	15	30	N	N	10	30	N	7
SS35	N	N	15	30	15	20	N	N	15	20	N	7
SS36	N	N	15	30	15	30	N	N	10	30	N	10
SS37	N	N	10	20	10	30	N	N	7	20	N	7
SS38	N	N	15	30	15	50	N	N	10	30	N	10
SS39	N	N	20	50	20	50	N	<20	15	30	N	15
SS4	N	N	10	30	15	30	N	N	15	20	N	7
SS40	N	N	15	50	15	30	N	N	20	20	N	10
SS41	N	N	15	50	15	30	N	N	20	20	N	7
SS42	N	N	10	50	20	50	N	N	15	50	N	7
SS43	N	N	15	50	15	70	N	N	20	30	N	10
SS44	N	N	20	70	20	100	N	N	20	10	N	15
SS45	N	N	15	50	15	50	N	N	15	30	N	7
SS46	N	N	15	70	15	50	N	N	20	30	N	7
SS47	N	N	15	70	15	50	N	N	30	30	N	10
SS48	N	N	15	50	15	30	N	N	20	20	N	7
SS49	N	N	15	50	15	30	<5	<20	20	30	N	10
SS5	N	N	15	50	15	150	N	N	15	30	N	7
SS50	N	N	15	50	15	50	N	N	20	30	N	7
SS51	N	N	15	30	15	30	N	N	15	20	N	7
SS52	N	N	20	100	20	30	N	N	50	20	N	10
SS53	N	N	10	20	20	30	N	N	10	100	N	7
SS54	N	N	15	20	15	50	N	<20	15	30	N	7
SS55	N	N	15	30	15	50	N	N	15	30	N	7
SS56	N	N	20	150	20	50	N	N	50	30	N	10
SS57	N	N	20	200	15	30	N	N	70	20	N	15
SS58	N	N	15	50	20	50	N	N	20	30	N	10
SS59	N	N	20	150	15	30	N	N	50	20	N	10
SS6	N	N	10	50	10	50	N	N	15	20	N	7
SS60	N	N	15	50	15	50	N	N	15	20	N	10

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	As-ppm aa	Zn-ppm aa	Sb-ppm aa
SS256	N	300	70	N	20	N	200	N	15	75	N
SS257	N	300	50	N	15	N	150	N	10	60	N
SS259	N	200	50	N	15	N	150	N	5	50	N
SS26	N	300	50	N	20	N	200	N	15	60	<2
SS260	N	200	50	N	15	N	200	N	10	50	N
SS261	N	300	30	N	15	N	100	N	15	40	N
SS262	N	300	50	N	20	N	200	N	45	60	2
SS27	N	300	50	N	20	N	300	N	15	60	<2
SS28	N	300	50	N	30	N	200	N	20	70	<2
SS29	N	500	70	N	20	N	200	N	15	70	2
SS3	N	500	50	N	30	N	150	N	<5	35	N
SS30	N	500	50	N	20	N	150	N	20	65	2
SS31	N	500	50	N	30	N	150	N	10	60	4
SS32	N	300	70	N	20	N	100	N	10	65	N
SS33	N	300	50	N	20	N	150	N	10	55	<2
SS34	N	300	50	N	20	N	150	N	5	70	<2
SS35	N	300	50	N	20	N	200	N	10	55	2
SS36	N	300	50	N	30	N	200	N	20	70	2
SS37	N	300	50	N	20	N	150	N	10	60	2
SS38	N	300	50	N	30	N	200	N	15	70	2
SS39	N	500	70	N	30	N	200	N	25	65	2
SS4	N	500	50	N	20	N	150	N	<5	40	N
SS40	N	500	70	N	20	N	150	N	10	50	N
SS41	N	300	50	N	50	N	150	N	5	65	N
SS42	N	500	70	N	20	N	200	N	5	50	<2
SS43	N	300	50	N	30	N	150	N	5	35	<2
SS44	N	150	70	N	30	200	200	N	5	250	N
SS45	N	300	50	N	20	N	150	N	5	45	<2
SS46	N	500	50	N	20	N	150	N	10	40	<2
SS47	N	300	70	N	20	N	150	N	10	60	<2
SS48	N	300	50	N	30	N	150	N	10	50	<2
SS49	N	300	70	N	20	N	200	N	10	50	2
SS5	N	500	70	N	30	N	200	N	<5	60	N
SS50	N	500	70	N	20	N	150	N	15	50	<2
SS51	N	300	50	N	20	N	150	N	10	45	<2
SS52	N	500	70	N	20	N	200	N	10	60	2
SS53	N	300	50	N	20	N	150	N	5	50	4
SS54	N	300	50	N	20	N	150	N	5	45	2
SS55	N	300	50	N	20	N	100	N	10	65	2
SS56	N	300	70	N	30	N	200	N	10	85	2
SS57	N	500	100	N	30	N	200	N	10	90	2
SS58	N	500	50	N	20	N	150	N	10	55	2
SS59	N	500	70	N	20	N	150	N	10	65	2
SS6	N	500	50	N	20	N	200	N	5	40	<2
SS60	N	300	50	N	30	N	200	N	10	55	2

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
SS61	47,070	411,340	3	1.0	2.0	.5	500	N	N	N	70	500	1.0
SS62	47,680	411,270	3	1.0	2.0	.5	500	N	N	N	70	500	1.5
SS63	47,760	411,280	2	1.0	2.0	.3	500	N	N	N	50	500	1.5
SS64	49,060	409,655	3	.7	1.5	.3	1,000	N	N	N	50	700	1.5
SS65	49,000	409,060	2	1.0	1.5	.5	700	N	N	N	50	700	1.5
SS66	49,130	409,773	2	.7	1.5	.3	700	N	N	N	50	700	1.5
SS67	49,208	409,765	2	1.0	1.5	.3	700	N	N	N	30	700	1.5
SS68	49,240	409,827	2	.7	1.0	.5	700	N	N	N	50	700	1.5
SS69	49,320	409,750	5	.7	1.5	.7	1,000	N	N	N	50	500	1.0
SS7	48,827	411,231	5	.7	1.5	.5	1,000	N	N	N	50	700	1.5
SS70	49,330	409,745	2	.7	1.5	.2	500	N	N	N	50	500	1.5
SS71	49,510	409,880	5	.7	1.5	.5	700	N	N	N	70	500	1.5
SS72	49,517	409,805	2	1.0	1.5	.3	700	N	N	N	70	500	1.5
SS73	49,390	410,025	3	.7	1.5	.3	700	N	N	N	100	500	1.5
SS74	49,510	410,009	3	.7	1.5	.3	500	N	N	N	70	500	1.5
SS75	49,670	409,950	3	.7	1.5	.3	500	N	N	N	70	500	1.5
SS76	49,070	409,945	5	.7	1.5	.5	700	N	N	N	50	500	1.5
SS77	49,000	409,830	3	.7	1.5	.5	700	N	N	N	50	700	1.5
SS78	49,590	409,791	3	.7	1.5	.3	500	N	N	N	100	500	1.5
SS79	49,050	409,710	3	.7	1.5	.5	700	N	N	N	70	500	1.5
SS8	46,790	411,160	3	.7	2.0	.5	1,000	N	N	N	70	700	1.5
SS80	49,650	409,672	3	.7	1.5	.5	500	N	N	N	70	500	1.5
SS81	49,271	410,055	2	.5	1.0	.3	500	N	N	N	70	700	2.0
SS82	49,209	410,085	5	.7	1.5	.5	700	N	N	N	50	500	1.5
SS83	49,130	410,025	3	.7	1.5	.3	500	N	N	N	50	700	1.5
SS84	49,070	410,020	3	.5	1.0	.5	500	N	N	N	50	700	1.5
SS85	49,000	410,070	3	.7	1.5	.3	500	N	N	N	50	700	1.5
SS86	49,030	410,110	5	1.0	1.5	.5	700	N	N	N	30	500	1.0
SS87	49,009	410,220	5	1.0	1.5	.5	700	N	N	N	50	700	1.5
SS88	49,100	410,275	5	.7	1.5	.5	700	N	N	N	30	700	1.5
SS89	49,095	410,330	5	1.0	1.5	.5	1,000	N	N	N	30	700	1.5
SS9	48,718	411,060	3	.7	1.5	.5	700	N	N	N	70	700	1.5
SS90	49,100	410,390	3	1.0	1.5	.5	700	N	N	N	30	700	1.5
SS91	41,710	412,330	2	.7	1.0	.3	300	N	N	N	30	300	2.0
SS92	47,165	412,370	2	.7	1.0	.3	500	N	N	N	30	500	1.5
SS93	46,920	412,450	3	.7	1.0	.3	500	N	N	N	50	500	1.5
SS94	47,045	412,390	3	.7	1.0	.3	500	N	N	N	50	500	1.5
SS95	47,280	412,330	2	.5	.7	.3	500	N	N	N	30	300	1.5
SS96	40,985	412,311	2	.7	1.5	.3	500	.5	N	N	30	300	2.0
SS97	40,972	412,362	2	.7	1.0	.2	300	N	N	N	50	500	1.5
SS98	40,773	412,310	3	1.0	1.5	.5	700	N	N	N	50	500	2.0
SS99	40,760	412,360	2	.7	1.5	.3	500	N	N	N	30	500	2.0

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
SS61	N	N	15	100	20	30	N	N	30	50	N	10
SS62	N	N	15	70	20	50	N	N	20	30	N	10
SS63	N	N	15	50	15	50	N	N	15	30	N	10
SS64	N	N	15	30	15	70	<5	<20	10	20	N	7
SS65	N	N	10	20	15	50	N	<20	7	30	N	7
SS66	N	N	10	20	15	50	N	N	10	30	N	7
SS67	N	N	15	50	15	30	5	N	15	30	N	7
SS68	N	N	10	20	15	30	N	N	10	30	N	7
SS69	N	N	15	30	15	50	N	<20	15	20	N	10
SS7	N	N	15	50	15	50	N	N	20	20	N	7
SS70	N	N	10	30	15	20	<5	N	15	30	N	5
SS71	N	N	15	30	15	50	<5	N	15	30	N	7
SS72	N	N	15	50	15	50	7	N	20	20	N	7
SS73	N	N	10	30	15	30	N	N	15	30	N	7
SS74	N	N	10	30	10	30	N	N	15	30	N	7
SS75	N	N	10	30	15	30	N	N	15	30	N	7
SS76	N	N	15	50	15	30	N	N	15	50	N	10
SS77	N	N	15	50	15	30	5	N	20	30	N	7
SS78	N	N	10	50	15	70	N	N	15	30	N	7
SS79	N	N	10	50	15	50	7	N	20	20	N	7
SS8	N	N	10	50	15	50	N	N	15	20	N	7
SS80	N	N	15	100	15	50	N	N	10	20	N	7
SS81	N	N	7	15	10	50	N	N	5	30	N	5
SS82	N	N	15	50	15	50	7	N	15	30	N	10
SS83	N	N	10	50	15	30	N	N	15	30	N	7
SS84	N	N	15	20	10	30	10	<20	15	30	N	7
SS85	N	N	10	20	15	50	N	N	10	30	N	7
SS86	N	N	15	70	10	70	N	N	15	20	N	10
SS87	N	N	20	50	15	50	N	N	20	20	N	10
SS88	N	N	15	50	15	30	N	N	15	20	N	7
SS89	N	N	20	50	15	50	N	N	15	30	N	10
SS90	N	N	10	50	15	30	N	N	15	50	N	7
SS91	N	N	15	50	15	50	N	N	15	20	N	10
SS92	N	N	10	20	15	30	N	N	10	30	N	7
SS93	N	N	10	30	15	50	N	N	10	30	N	7
SS94	N	N	10	20	15	30	N	N	10	30	N	7
SS95	N	N	7	15	10	30	N	<20	10	30	N	5
SS96	N	N	10	20	15	100	N	N	10	100	N	5
SS97	N	N	10	20	10	70	N	N	10	50	N	7
SS98	N	N	20	30	20	50	N	N	20	30	N	10
SS99	N	N	15	30	15	70	N	N	15	20	N	7

Table 1 Data for stream sediment samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	As-ppm aa	Zn-ppm aa	Sb-ppm aa
SS61	N	300	70	N	20	N	200	N	10	55	2
SS62	N	300	50	N	20	N	200	N	10	50	2
SS63	N	300	50	N	20	N	150	N	10	40	<2
SS64	N	300	50	N	20	N	300	N	10	35	N
SS65	N	300	50	N	20	N	200	N	10	45	<2
SS66	N	500	50	N	20	N	150	N	10	40	<2
SS67	N	300	30	N	20	N	150	N	10	35	<2
SS68	N	300	50	N	20	N	200	N	10	35	2
SS69	N	300	100	N	20	N	200	N	10	70	2
SS7	N	300	70	N	20	N	200	N	5	70	2
SS70	N	200	50	N	20	N	100	N	10	35	2
SS71	N	200	50	N	20	N	150	N	<5	40	N
SS72	N	200	50	N	20	N	150	N	5	45	2
SS73	N	200	50	N	20	N	150	N	<5	45	<2
SS74	N	200	50	N	20	N	150	N	<5	35	2
SS75	N	300	50	N	20	N	150	N	<5	50	2
SS76	N	200	70	N	30	N	150	N	5	70	2
SS77	N	300	70	N	20	N	150	N	<5	55	2
SS78	N	200	50	N	20	N	200	N	<5	35	2
SS79	N	200	50	N	20	N	150	N	5	60	2
SS8	N	300	50	N	20	N	150	N	5	40	2
SS80	N	200	50	N	20	N	150	N	<5	45	2
SS81	N	300	20	N	15	N	150	N	<5	25	N
SS82	N	300	70	N	20	N	200	N	N	60	N
SS83	N	200	30	N	15	N	150	N	N	30	<2
SS84	N	300	50	N	20	N	300	N	<5	40	<2
SS85	N	200	30	N	20	N	150	N	N	45	<2
SS86	N	300	50	N	20	N	200	N	N	55	<2
SS87	N	300	50	N	30	N	200	N	<5	65	<2
SS88	N	300	70	N	20	N	150	N	N	80	<2
SS89	N	300	70	N	20	N	200	N	<5	80	<2
SS9	N	500	50	N	20	N	150	N	5	35	2
SS90	N	300	50	N	20	N	150	N	<5	65	2
SS91	N	300	50	N	15	N	200	N	10	55	N
SS92	N	300	50	N	15	N	100	N	10	50	N
SS93	N	200	50	N	20	N	150	N	10	40	N
SS94	N	300	30	N	15	N	150	N	10	45	N
SS95	N	200	50	N	10	N	100	N	10	30	N
SS96	N	200	50	N	20	N	150	N	15	80	N
SS97	N	300	30	N	15	N	100	N	10	50	N
SS98	N	500	50	N	15	N	200	N	10	105	N
SS99	N	300	50	N	20	N	150	N	15	75	N

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada

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

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
PC1	49,055	411,830	.30	.50	5.0	2.0	200	N	500	N	N	300
PC10	48,690	410,969	.20	.70	10.0	>2.0	300	N	N	N	N	150
PC100	49,650	412,470	.50	.20	3.0	2.0	200	N	N	<20	500	
PC101	49,610	412,510	1.00	.20	5.0	>2.0	300	N	N	20	300	
PC102	45,880	411,740	.50	.15	20.0	2.0	300	3	N	N	3,000	
PC103	49,100	411,880	.50	.15	7.0	1.5	200	N	N	<20	2,000	
PC104	45,980	411,618	.70	.10	20.0	>2.0	300	N	N	N	10,000	
PC105	45,920	411,550	.70	.20	15.0	2.0	200	N	N	N	>10,000	
PC106	49,110	411,485	.50	.15	15.0	2.0	200	N	N	N	>10,000	
PC107	49,090	411,340	.70	5.00	20.0	1.5	300	N	N	N	5,000	
PC108	45,850	410,520	.50	2.00	15.0	1.0	300	N	N	<20	2,000	
PC109	45,720	410,790	.50	1.00	15.0	2.0	300	N	N	<20	500	
PC11	49,751	410,930	.50	.50	7.0	2.0	500	N	N	N	200	
PC110	45,680	410,820	.70	1.00	10.0	2.0	300	N	N	N	500	
PC111	45,770	411,020	.70	1.50	7.0	1.5	200	N	N	30	700	
PC112	45,770	411,120	.50	1.00	5.0	1.0	200	N	N	N	500	
PC113	45,760	412,000	.70	.70	15.0	>2.0	500	N	N	N	700	
PC114	45,910	412,120	.50	.30	10.0	>2.0	300	N	N	N	1,000	
PC115	49,010	412,200	.50	2.00	10.0	>2.0	500	N	N	20	500	
PC116	49,615	412,100	.50	.50	10.0	>2.0	300	N	N	<20	>10,000	
PC12	49,675	410,930	.50	.30	5.0	2.0	300	N	N	N	500	
PC13	45,640	410,910	.50	.50	7.0	2.0	300	N	N	<20	700	
PC14	48,550	410,860	.30	.30	3.0	1.0	200	N	N	<20	700	
PC15	49,501	410,820	.70	.50	2.0	.7	300	N	N	<20	500	
PC16	49,490	410,821	.50	.20	3.0	1.5	300	N	N	<20	200	
PC17	49,669	410,690	1.00	.20	3.0	1.0	500	N	N	<20	300	
PC18	49,650	410,650	.70	.20	1.5	.7	300	N	N	N	300	
PC19	49,500	410,690	.30	.30	3.0	1.5	200	N	N	<20	300	
PC2	49,990	411,755	.30	.50	5.0	2.0	300	N	N	N	300	
PC20	49,507	410,659	.15	.50	5.0	2.0	300	N	N	<20	200	
PC201	49,841	412,013	2.00	.70	5.0	2.0	700	50	N	N	N	5,000
PC202	49,560	411,476	1.00	.50	3.0	1.5	700	N	N	20	1,000	
PC203	49,490	411,408	.50	.50	5.0	>2.0	500	50	N	N	20	300
PC204	49,460	411,437	.30	.70	3.0	>2.0	500	50	N	N	<20	500
PC205	49,400	411,253	.50	.70	5.0	>2.0	300	N	N	N	1,000	
PC206	49,450	411,141	.50	.50	3.0	1.5	300	N	N	<20	700	
PC207	49,435	411,140	.70	.70	5.0	2.0	300	N	N	N	1,000	
PC208	47,849	410,680	.70	.70	7.0	>2.0	300	N	N	<20	500	
PC209	47,920	410,736	.50	.70	7.0	>2.0	500	N	N	N	300	
PC21	49,480	410,588	.20	.70	7.0	2.0	300	N	N	N	500	
PC210	49,050	411,320	.70	.70	7.0	>2.0	700	15	N	N	200	
PC211	49,035	411,275	.50	.70	7.0	>2.0	500	N	N	N	200	
PC212	47,930	411,400	1.00	.70	5.0	>2.0	700	100	N	N	N	150
PC213	47,870	411,350	.70	.70	5.0	>2.0	500	70	N	N	N	300

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
PC256	N	50	70	300	150	300	500	N	>2,000	1,500
PC257	N	50	N	200	70	N	300	N	>2,000	700
PC259	N	50	20	N	50	N	300	N	>2,000	700
PC26	N	30	N	1,000	50	N	300	N	>2,000	N
PC260	N	50	20	N	70	N	700	N	>2,000	5,000
PC261	N	15	N	300	70	N	150	N	>2,000	<200
PC262	N	30	N	300	100	N	300	N	>2,000	N
PC27	N	10	N	300	50	N	150	N	>2,000	N
PC28	N	30	N	300	70	N	200	N	>2,000	N
PC29	N	30	N	500	70	N	300	N	>2,000	N
PC3	N	20	50	200	70	N	700	N	>2,000	<200
PC30	N	20	N	500	70	N	300	N	>2,000	N
PC31	N	50	N	700	70	N	500	N	>2,000	N
PC32	N	15	N	500	50	N	100	N	>2,000	N
PC33	N	<10	50	500	30	N	50	N	2,000	N
PC34	N	20	N	<200	70	N	300	N	>2,000	N
PC35	N	50	N	200	70	N	300	N	>2,000	<200
PC36	N	50	N	200	70	N	500	N	>2,000	N
PC37	N	30	N	300	50	N	500	N	>2,000	N
PC38	N	50	N	200	50	N	500	N	>2,000	N
PC39	N	50	N	300	30	N	500	N	>2,000	N
PC4	N	10	20	300	70	N	500	N	>2,000	N
PC40	N	30	N	300	70	N	300	N	>2,000	N
PC41	N	20	N	<200	70	<100	300	N	>2,000	200
PC42	N	30	50	<200	100	N	300	N	>2,000	700
PC43	N	20	300	N	100	N	500	N	>2,000	<200
PC44	N	<10	N	200	<20	N	30	N	1,500	N
PC45	N	15	N	200	70	N	150	N	>2,000	<200
PC46	N	20	N	300	50	N	150	N	>2,000	N
PC47	N	20	N	300	50	N	200	N	>2,000	300
PC48	N	30	30	N	70	N	500	N	>2,000	<200
PC49	N	30	N	<200	70	N	300	N	>2,000	<200
PC5	N	20	<20	<200	70	N	500	N	>2,000	N
PC50	N	30	N	<200	70	N	300	N	>2,000	<200
PC51	N	50	N	N	70	N	300	N	>2,000	<200
PC52	N	10	N	200	50	N	200	N	>2,000	200
PC53	N	70	300	N	70	<100	700	N	>2,000	5,000
PC54	N	50	30	300	70	100	700	N	>2,000	1,500
PC55	N	50	20	300	70	N	500	N	>2,000	1,000
PC56	N	20	20	<200	100	N	200	N	>2,000	300
PC57	N	10	N	500	30	N	70	N	>2,000	N
PC58	N	15	N	300	70	N	200	N	>2,000	N
PC59	N	15	N	200	70	N	150	N	>2,000	N
PC6	N	50	<20	<200	100	N	700	N	>2,000	N
PC60	N	15	<20	N	70	N	500	N	>2,000	200

PC214 48,136 411,442 .70 .70 7.0 >2.0 300 S N N <20 300

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
PC1	N	N	N	N	20	<10	200	N	<50	N	50
PC10	N	N	N	<10	50	<10	500	N	70	N	20
PC100	3	N	N	10	<20	10	100	N	100	N	50
PC101	N	N	N	15	50	<10	200	N	150	<10	50
PC102	N	N	N	N	<20	<10	700	70	<50	N	300
PC103	N	50	N	N	20	10	300	70	<50	N	1,000
PC104	N	100	N	<10	<20	<10	1,500	N	<50	N	30
PC105	N	N	N	N	20	<10	1,000	N	50	<10	30
PC106	N	70	N	N	<20	<10	1,000	N	50	N	30
PC107	N	N	N	N	20	10	500	N	<50	N	70
PC108	N	N	N	N	30	N	150	N	<50	<10	300
PC109	N	N	N	<10	30	<10	500	N	50	N	50
PC11	N	N	N	<10	30	<10	300	N	<50	N	100
PC110	N	N	N	<10	30	N	500	N	50	N	30
PC111	N	N	N	N	20	N	200	10	50	20	30
PC112	N	N	N	N	20	N	200	N	<50	N	20
PC113	N	N	N	10	30	N	1,000	N	70	N	70
PC114	N	N	N	10	30	N	1,000	N	70	N	20
PC115	N	100	N	10	50	N	700	N	50	N	30
PC116	N	150	N	<10	30	10	700	15	70	<10	200
PC12	N	N	N	N	30	N	300	N	50	<10	20
PC13	N	N	N	N	20	N	500	N	<50	N	20
PC14	N	N	N	N	<20	N	150	N	<50	N	<20
PC15	N	N	N	N	N	N	150	N	<50	N	70
PC16	N	300	N	N	20	N	200	N	70	N	30
PC17	N	20	N	N	<20	N	150	N	50	<10	50
PC18	<2	N	N	N	N	N	150	N	<50	N	30
PC19	N	N	N	N	<20	N	200	N	50	N	30
PC2	N	N	N	N	<10	30	50	200	N	<50	300
PC20	N	N	N	N	<10	20	N	200	N	<10	20
PC201	N	N	N	15	70	300	500	500	70	20	15,000
PC202	N	N	N	<10	50	<10	200	<10	50	10	200
PC203	<2	N	N	N	<10	50	15	300	N	50	10
PC204	N	N	N	N	50	N	500	N	50	<10	70
PC205	N	N	N	N	<10	50	10	500	N	50	15
PC206	N	N	N	N	20	N	200	N	<50	N	20
PC207	N	N	N	N	50	<10	200	N	<50	N	50
PC208	N	N	N	N	50	<10	700	N	50	N	30
PC209	N	N	N	N	70	<10	700	N	50	<10	20
PC21	N	N	N	N	30	N	200	N	<50	N	50
PC210	N	N	N	10	70	N	700	N	70	10	<20
PC211	N	N	N	<10	70	<10	500	N	<50	<10	20
PC212	N	N	N	<10	70	20	300	N	50	10	20
PC213	N	N	N	<10	50	100	300	N	50	<10	<20
PC214	N	N	N	<10	70	N	500	N	50	N	<20

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
PC1	N	10	N	300	30	N	200	N	>2,000	N
PC10	N	30	N	N	100	N	500	N	>2,000	<200
PC100	N	15	N	200	50	150	150	N	2,000	5,000
PC101	N	70	20	500	70	100	500	N	>2,000	2,000
PC102	N	20	N	500	50	N	150	N	>2,000	200
PC103	N	10	N	700	70	N	100	N	>2,000	200
PC104	N	30	N	500	100	N	200	N	>2,000	<200
PC105	N	20	N	700	70	100	150	N	>2,000	<200
PC106	N	20	N	700	70	N	150	N	>2,000	200
PC107	N	10	N	500	70	N	100	N	>2,000	300
PC108	N	10	N	200	70	N	150	N	>2,000	N
PC109	N	20	N	300	70	N	200	N	>2,000	N
PC11	N	50	N	N	70	N	300	N	>2,000	<200
PC110	N	20	N	<200	70	N	200	N	>2,000	300
PC111	N	15	N	<200	50	N	100	N	>2,000	N
PC112	N	10	N	<200	50	N	70	N	>2,000	N
PC113	N	50	20	<200	100	N	500	N	>2,000	500
PC114	N	30	70	N	100	N	500	N	>2,000	500
PC115	N	30	N	N	100	N	300	N	>2,000	700
PC116	N	20	N	700	70	200	200	N	>2,000	500
PC12	N	20	N	N	50	N	500	N	>2,000	N
PC13	N	30	N	N	50	N	700	N	>2,000	N
PC14	N	10	N	200	20	N	150	N	>2,000	N
PC15	N	<10	30	200	<20	N	100	N	2,000	N
PC16	N	10	N	N	30	N	500	N	>2,000	N
PC17	N	<10	N	<200	30	N	70	N	>2,000	N
PC18	N	<10	N	>200	<20	N	100	N	2,000	N
PC19	N	10	N	200	50	N	200	N	>2,000	N
PC2	N	20	1,000	<200	50	N	300	N	>2,000	<200
PC20	N	15	N	<200	50	N	300	N	>2,000	N
PC201	300	30	150	300	150	N	500	2,000	>2,000	<200
PC202	N	20	N	<200	70	N	300	N	>2,000	300
PC203	N	30	N	<200	100	N	500	N	>2,000	200
PC204	N	20	N	<200	70	N	300	N	>2,000	200
PC205	N	50	N	N	100	N	300	N	>2,000	<200
PC206	N	20	N	<200	70	N	200	N	>2,000	200
PC207	N	30	N	200	70	N	200	N	>2,000	<200
PC208	N	30	50	200	100	N	300	N	>2,000	300
PC209	N	30	70	N	100	N	500	N	>2,000	<200
PC21	N	20	N	300	50	N	300	N	>2,000	N
PC210	N	70	50	N	70	N	1,500	N	>2,000	<200
PC211	N	50	20	<200	70	N	300	N	>2,000	<200
PC212	N	70	<20	N	100	N	500	N	>2,000	<200
PC213	N	50	<20	N	70	N	500	N	>2,000	200
PC214	N	50	N	N	100	<100	500	N	>2,000	300

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
PC215	48,030	411,205	.70	.70	5.0	>2.0	300	7	N	N	N	300
PC216	48,021	411,155	.70	.70	7.0	>2.0	500	3	N	N	N	300
PC217	48,066	411,129	.70	.70	5.0	>2.0	500	N	N	N	N	300
PC218	48,019	410,809	.70	.70	5.0	>2.0	500	N	N	N	N	150
PC219	48,012	410,808	.50	.70	5.0	>2.0	300	N	N	N	N	200
PC22	48,470	410,531	.30	.70	7.0	2.0	500	N	N	N	20	200
PC220	47,970	410,930	.50	.70	5.0	>2.0	500	N	N	N	<20	200
PC221	47,180	412,140	.50	.20	7.0	>2.0	700	N	N	N	N	150
PC222	47,260	412,040	.70	.30	3.0	1.5	500	N	N	N	N	700
PC223	47,480	411,900	.50	.30	3.0	2.0	300	N	N	N	N	1,000
PC224	48,980	411,140	.50	.30	3.0	.7	200	N	N	N	<20	700
PC225	48,900	411,235	1.00	.50	2.0	.7	200	N	N	N	<20	500
PC226	48,960	411,130	.70	.70	5.0	>2.0	300	N	N	N	<20	500
PC227	48,940	411,132	1.00	.70	5.0	2.0	500	N	N	N	<20	500
PC228	48,910	411,070	.70	.50	5.0	1.5	300	N	N	N	N	500
PC229	49,150	411,220	.70	.70	5.0	>2.0	500	N	N	N	<20	500
PC23	48,442	410,471	.50	.50	5.0	1.5	300	N	N	N	<20	500
PC230	49,260	411,070	.50	1.00	10.0	>2.0	500	N	N	N	20	300
PC231	49,268	411,080	.70	.15	1.5	.3	150	N	N	N	N	700
PC232	49,250	411,011	.70	.50	3.0	2.0	500	N	N	N	<20	300
PC233	49,219	411,020	.70	.70	7.0	>2.0	500	N	N	N	<20	1,000
PC234	49,104	411,121	1.00	.70	5.0	2.0	500	N	N	N	N	1,500
PC235	49,090	411,100	.50	.70	5.0	>2.0	700	N	N	N	<20	700
PC236	49,140	411,080	.70	.70	5.0	2.0	500	N	N	N	N	1,000
PC237	49,150	411,080	.70	.70	3.0	2.0	500	N	N	N	N	2,000
PC238	49,344	410,940	1.00	.70	3.0	2.0	500	N	N	N	<20	500
PC239	49,160	410,800	.50	.70	5.0	2.0	300	N	N	N	<20	500
PC24	48,440	410,350	.20	.70	5.0	1.5	300	N	N	N	30	500
PC240	49,075	410,790	.70	.50	5.0	2.0	500	N	N	N	30	300
PC241	49,080	410,780	2.00	.70	5.0	>2.0	1,000	N	N	N	<20	300
PC242	49,200	410,670	1.00	.70	3.0	2.0	500	N	N	N	30	500
PC243	48,934	410,576	.50	.50	5.0	>2.0	300	N	N	N	N	300
PC244	49,024	410,590	.50	.50	5.0	>2.0	300	N	N	N	<20	500
PC245	49,036	410,600	.70	.70	10.0	2.0	500	N	N	N	<20	500
PC246	49,300	410,510	.50	.70	10.0	2.0	300	N	N	N	20	500
PC247	49,430	412,520	.30	.20	10.0	>2.0	300	N	N	N	N	200
PC248	49,331	412,400	.50	.30	10.0	>2.0	300	N	N	N	<20	200
PC249	49,425	412,380	.50	.30	10.0	>2.0	300	N	N	N	N	150
PC25	48,171	409,860	.30	.50	10.0	1.5	300	N	N	N	<20	500
PC250	48,260	412,420	.30	.20	7.0	>2.0	300	N	N	N	N	300
PC251	49,330	412,340	.50	.70	10.0	>2.0	300	N	N	N	N	200
PC252	46,234	412,405	.30	.20	10.0	>2.0	300	N	N	N	<20	300
PC253	46,200	412,370	1.00	.15	15.0	>2.0	500	1	N	N	N	100
PC254	46,250	412,305	1.00	.30	10.0	>2.0	300	N	N	N	N	300
PC255	46,240	412,300	.30	.20	7.0	>2.0	200	N	N	N	<20	300

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
PC215	N	N	N	<10	50	N	300	N	<50	N	30
PC216	N	N	N	<10	70	<10	300	N	70	N	20
PC217	N	N	N	<10	50	N	300	N	50	10	30
PC218	N	N	N	<10	70	N	500	N	100	<10	20
PC219	N	N	N	N	30	N	300	N	50	<10	150
PC22	N	N	N	<10	70	N	300	N	70	<10	20
PC220	N	N	N	N	50	<10	300	N	50	10	20
PC221	<2	N	N	<10	50	<10	200	30	100	10	700
PC222	2	N	N	N	<20	300	500	N	<50	N	50
PC223	<2	N	N	N	20	N	300	N	N	N	20
PC224	<2	N	N	N	20	N	100	N	N	N	30
PC225	2	N	N	N	30	N	300	N	<50	N	30
PC226	N	N	N	N	50	N	200	N	50	N	20
PC227	N	N	N	<10	50	N	150	N	70	<10	20
PC228	N	N	N	N	30	N	150	N	50	N	30
PC229	N	N	N	<10	50	<10	300	N	50	10	30
PC23	N	N	N	N	50	N	200	N	<50	N	30
PC230	N	N	N	<10	50	N	300	N	70	<10	20
PC231	<2	N	N	N	N	N	70	N	N	N	70
PC232	<2	N	N	N	30	N	200	N	50	N	20
PC233	N	N	N	<10	50	N	300	N	50	10	100
PC234	N	N	N	<10	20	<10	200	N	50	<10	30
PC235	<2	N	N	<10	30	N	500	N	50	<10	<20
PC236	<2	N	N	<10	30	N	500	N	<50	<10	200
PC237	N	N	N	N	30	N	300	20	50	N	200
PC238	N	N	N	N	30	N	200	10	50	<10	100
PC239	N	N	N	N	30	10	200	N	50	N	700
PC24	N	N	N	N	30	<10	200	N	<50	N	30
PC240	N	30	N	<10	30	15	500	N	70	N	300
PC241	N	70	N	10	50	N	700	N	100	10	70
PC242	N	N	N	N	30	10	300	N	<50	<10	500
PC243	N	N	N	N	50	N	500	N	50	10	70
PC244	N	N	N	N	30	<10	200	<10	50	10	200
PC245	N	N	N	N	100	N	300	N	70	10	500
PC246	N	N	N	N	70	N	500	N	<50	<10	300
PC247	<2	N	N	20	70	20	500	15	150	N	500
PC248	N	N	N	15	70	100	500	N	100	<10	300
PC249	15	N	N	10	50	N	500	N	100	N	30
PC25	N	N	N	<10	20	N	700	N	<50	N	20
PC250	5	N	N	10	50	N	300	<10	100	N	300
PC251	N	N	N	10	30	N	700	N	70	N	30
PC252	N	N	N	10	50	15	500	N	100	<10	200
PC253	N	N	N	<10	20	200	1,000	N	50	10	5,000
PC254	N	N	N	10	50	N	300	N	100	<10	100
PC255	N	N	N	<10	50	N	300	N	70	N	30

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
PC215	N	30	<20	N	70	N	500	N	>2,000	<200
PC216	N	30	30	N	70	N	500	N	>2,000	200
PC217	N	20	N	<200	70	N	500	N	>2,000	<200
PC218	N	30	30	N	70	N	1,000	N	>2,000	200
PC219	N	20	N	<200	70	N	200	N	>2,000	N
PC22	N	30	30	<200	100	N	500	N	>2,000	<200
PC220	N	20	N	<200	70	N	300	N	>2,000	<200
PC221	N	50	50	1,000	70	500	300	N	>2,000	1,000
PC222	N	30	N	300	50	N	300	N	>2,000	N
PC223	N	50	N	N	50	N	500	N	>2,000	<200
PC224	N	10	N	300	20	N	100	N	>2,000	N
PC225	N	10	N	300	20	<100	100	N	2,000	N
PC226	N	15	30	<200	50	N	200	N	>2,000	<200
PC227	N	20	<20	<200	50	N	300	N	>2,000	N
PC228	N	15	N	<200	30	N	200	N	>2,000	N
PC229	N	30	N	N	70	N	300	N	>2,000	<200
PC23	N	<10	N	300	70	N	200	N	>2,000	N
PC230	N	20	<20	N	70	N	500	N	>2,000	N
PC231	N	<10	N	200	<20	N	30	N	>2,000	N
PC232	N	30	N	N	50	N	300	N	>2,000	<200
PC233	N	30	20	N	70	N	500	N	>2,000	N
PC234	N	20	50	N	50	N	500	N	>2,000	<200
PC235	N	30	30	N	70	N	500	N	>2,000	<200
PC236	N	30	N	200	70	N	300	<500	>2,000	200
PC237	N	20	N	<200	70	N	300	N	>2,000	<200
PC238	N	20	N	<200	70	N	300	N	>2,000	<200
PC239	N	15	<20	N	50	N	300	N	>2,000	<200
PC24	N	15	N	500	70	N	200	N	>2,000	N
PC240	N	20	20	N	70	N	700	N	>2,000	N
PC241	N	30	50	N	70	N	1,500	N	>2,000	N
PC242	N	20	N	<200	70	N	300	N	>2,000	<200
PC243	N	30	<20	N	70	N	700	N	>2,000	<200
PC244	N	20	N	N	70	N	500	N	>2,000	N
PC245	N	20	20	500	70	N	500	N	>2,000	N
PC246	N	20	N	700	50	N	500	N	>2,000	N
PC247	N	70	30	500	150	700	500	N	>2,000	5,000
PC248	N	70	50	500	150	300	500	N	>2,000	2,000
PC249	N	50	30	500	100	300	300	N	>2,000	1,500
PC25	N	20	N	300	50	N	300	N	>2,000	N
PC250	N	50	30	500	100	200	500	N	>2,000	1,500
PC251	N	20	20	200	100	100	300	N	>2,000	1,000
PC252	N	50	30	200	100	<100	300	N	>2,000	1,000
PC253	N	30	N	300	300	N	300	N	>2,000	700
PC254	N	30	N	200	100	100	300	N	>2,000	700
PC255	N	50	<20	<200	100	N	500	N	>2,000	700

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
PC256	46,030	412,300	.30	.50	10.0	>2.0	300	<1	N	N	N	300
PC257	45,985	412,600	.50	.50	15.0	>2.0	300	N	N	N	N	5,000
PC259	47,300	412,350	.30	.15	10.0	>2.0	300	N	N	N	N	2,000
PC26	48,342	410,319	.20	.30	2.0	1.5	200	N	N	N	N	>10,000
PC260	47,400	412,300	.70	.10	15.0	>2.0	700	1	N	N	N	150
PC261	42,540	418,360	.70	.50	3.0	1.0	500	N	N	N	50	500
PC262	42,500	418,320	1.00	.50	5.0	1.0	700	N	N	N	N	700
PC27	46,200	410,290	.50	.20	5.0	1.5	300	N	N	N	<20	10,000
PC28	48,200	410,140	.70	.70	7.0	2.0	500	N	N	N	N	2,000
PC29	48,200	410,100	.70	1.00	10.0	2.0	500	N	N	N	<20	1,500
PC3	48,735	411,600	.30	.70	7.0	>2.0	500	N	N	N	20	200
PC30	46,171	410,031	.50	.70	10.0	2.0	300	N	N	N	N	700
PC31	48,135	409,949	.70	.70	15.0	2.0	300	N	N	N	N	500
PC32	48,030	409,909	1.00	.70	3.0	1.0	200	N	N	N	<20	700
PC33	47,999	409,850	1.00	.70	3.0	.7	200	N	N	N	<20	1,000
PC34	47,859	409,841	.70	.70	10.0	2.0	300	N	N	N	<20	300
PC35	47,995	409,849	.50	.70	7.0	2.0	300	N	N	N	<20	500
PC36	48,215	409,780	.70	.50	10.0	2.0	300	N	N	N	N	1,000
PC37	46,185	409,755	.50	.30	7.0	1.5	300	N	N	N	N	7,000
PC38	46,173	409,790	.70	.20	15.0	2.0	300	N	N	N	N	1,500
PC39	48,130	409,827	.50	.30	20.0	1.5	300	N	N	N	<20	500
PC4	48,832	411,585	.50	.50	7.0	>2.0	300	N	N	N	<20	300
PC40	47,850	410,030	.70	.70	10.0	2.0	300	N	N	N	<20	500
PC41	47,521	410,720	.50	1.00	7.0	>2.0	300	N	N	N	N	700
PC42	47,410	410,620	.50	1.00	7.0	>2.0	300	N	N	N	<20	200
PC43	47,300	410,841	1.50	1.00	5.0	>2.0	500	N	N	N	<20	300
PC44	47,510	410,810	.50	.20	1.5	.2	150	N	N	N	N	500
PC45	47,220	410,820	.50	.70	5.0	2.0	300	N	N	N	20	500
PC46	47,130	410,800	.50	.20	20.0	2.0	300	N	N	N	N	100
PC47	47,210	410,610	.50	.30	15.0	2.0	300	N	N	N	N	150
PC48	47,290	410,540	.50	.70	7.0	>2.0	300	N	N	N	N	200
PC49	47,480	410,200	.50	.70	10.0	>2.0	300	N	N	N	N	300
PC50	48,850	411,390	.30	.50	7.0	>2.0	300	N	N	N	<20	100
PC51	47,630	410,090	.50	.70	10.0	2.0	300	N	N	N	<20	300
PC51	47,680	409,960	.70	1.00	7.0	2.0	300	N	N	N	N	200
PC52	45,900	410,420	.50	1.00	10.0	1.5	200	N	N	N	<20	700
PC53	47,460	412,180	.50	.10	10.0	2.0	700	30	N	N	N	200
PC54	47,540	412,060	.50	.20	10.0	>2.0	300	5	N	N	<20	200
PC55	47,750	411,820	.50	.20	7.0	>2.0	500	N	N	N	N	300
PC56	47,490	411,580	.70	.70	5.0	2.0	300	N	N	N	<20	300
PC57	47,550	411,580	.70	.30	3.0	.7	150	N	N	N	<20	500
PC58	47,570	411,500	.70	.70	5.0	2.0	300	N	N	N	<20	500
PC59	47,700	411,680	.50	.70	5.0	2.0	200	N	N	N	<20	300
PC60	48,810	411,315	.30	.70	10.0	>2.0	500	N	N	N	N	100
PC60	47,730	411,500	.50	.50	3.0	2.0	300	N	N	N	<20	300

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
PC256	N	N	N	15	50	<10	500	<10	100	N	500
PC257	N	N	N	<10	50	N	700	N	70	N	30
PC259	N	N	N	10	<20	N	200	N	150	N	200
PC26	<2	N	N	N	<20	N	200	N	N	15	<20
PC260	N	N	N	15	<20	N	200	N	100	N	3,000
PC261	<2	N	N	<10	<20	N	200	N	<50	10	30
PC262	<2	N	N	<10	20	N	200	N	N	<10	100
PC27	<2	N	N	N	<20	15	150	N	<50	<10	20
PC28	N	N	N	<10	20	<10	300	N	50	10	20
PC29	N	N	N	<10	30	15	500	N	<50	<10	30
PC3	N	N	N	<10	50	10	500	N	50	<10	150
PC30	N	N	N	N	20	10	500	N	<50	<10	20
PC31	N	N	N	<10	20	<10	700	N	N	<10	30
PC32	N	N	N	N	<20	<10	100	N	<50	N	20
PC33	2	N	N	N	<20	<10	100	N	<50	<10	30
PC34	<2	N	N	10	30	N	300	N	50	N	20
PC35	N	N	N	<10	30	N	500	N	50	<10	20
PC36	N	N	N	10	30	<10	700	N	50	<10	30
PC37	2	N	N	<10	20	N	500	N	50	10	30
PC38	N	N	N	N	20	N	1,000	N	<50	<10	20
PC39	N	N	N	N	20	N	2,000	N	N	N	20
PC4	N	N	N	<10	50	10	200	N	70	<10	30
PC40	N	N	N	<10	30	N	700	10	<50	15	<20
PC41	N	N	N	<10	50	N	300	N	50	N	50
PC42	N	N	N	10	50	<10	500	N	70	<10	100
PC43	N	N	N	10	70	N	500	<10	70	15	20
PC44	<2	N	N	N	<20	N	50	N	N	N	30
PC45	N	N	N	<10	50	N	300	N	50	N	30
PC46	N	N	N	<10	20	N	1,500	10	50	10	20
PC47	N	N	N	<10	20	N	1,500	15	50	10	20
PC48	N	N	N	<10	50	N	500	N	70	N	<20
PC49	N	N	N	<10	50	N	700	N	70	N	50
PC5	N	N	N	<10	50	<10	200	N	50	<10	50
PC50	N	N	N	<10	50	<10	500	N	50	N	300
PC51	N	N	N	10	70	N	500	<10	50	<10	300
PC52	N	N	N	N	30	N	300	N	<50	<10	30
PC53	2	N	N	20	20	150	500	300	100	N	15,000
PC54	<2	N	N	15	50	15	300	10	100	N	2,000
PC55	<2	N	N	10	30	10	200	N	100	N	200
PC56	N	N	N	<10	30	<10	300	10	50	N	200
PC57	<2	N	N	N	20	N	100	N	<50	N	50
PC58	N	N	N	N	70	N	300	N	70	<10	50
PC59	N	N	N	N	70	N	300	N	50	10	70
PC6	N	N	N	10	70	N	300	N	50	<10	30
PC60	N	N	N	N	20	N	300	N	100	N	70

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
PC61	47,670	411,340	1.00	1.00	7.0	>2.0	700	N	N	N	20	150
PC62	47,680	411,270	.70	.70	7.0	>2.0	700	2	N	N	<20	150
PC63	47,780	411,280	1.00	.70	5.0	>2.0	700	N	N	N	<20	150
PC64	49,000	409,655	.70	.50	3.0	>2.0	500	N	N	N	N	7,000
PC65	49,000	409,660	.70	.50	3.0	>2.0	300	N	N	N	N	5,000
PC66	49,130	409,773	.70	.50	5.0	>2.0	500	N	N	N	N	3,000
PC67	49,208	49,208	.70	.30	3.0	1.5	300	N	N	N	<20	1,000
PC68	49,240	409,827	.50	.50	7.0	2.0	300	N	N	N	<20	500
PC69	49,320	409,750	.50	.20	1.5	.3	200	N	N	N	N	1,000
PC7	49,627	411,231	.15	.20	5.0	1.5	200	N	N	N	N	300
PC70	49,330	409,745	1.00	1.00	5.0	>2.0	700	N	N	N	30	500
PC71	49,310	409,880	.50	.70	5.0	>2.0	500	N	N	N	<20	300
PC72	49,317	409,905	.70	.70	7.0	>2.0	700	N	N	N	<20	150
PC73	49,390	410,025	1.00	.70	5.0	>2.0	500	N	N	N	50	300
PC74	49,510	410,009	.50	.50	7.0	>2.0	500	N	N	N	20	200
PC75	49,670	409,950	1.00	.70	7.0	>2.0	700	N	N	N	30	200
PC76	49,670	409,945	1.00	.50	5.0	2.0	500	N	N	N	<20	300
PC77	49,600	409,830	.70	.20	2.0	1.0	300	N	N	N	20	700
PC78	49,590	409,791	.50	.30	3.0	2.0	300	N	N	N	20	2,000
PC79	49,630	409,710	.70	.50	2.0	1.5	300	N	N	N	20	300
PC8	49,790	411,160	.20	.70	7.0	>2.0	300	N	N	N	N	300
PC80	49,630	410,672	.70	.50	5.0	>2.0	500	N	N	N	<20	200
PC81	49,271	410,050	.70	.50	3.0	1.5	500	N	N	N	<20	700
PC82	49,229	410,065	.70	.20	2.0	1.0	300	N	N	N	30	500
PC83	49,130	410,025	2.00	.50	5.0	>2.0	700	N	N	N	N	500
PC84	49,070	410,020	.50	.50	5.0	2.0	500	N	N	N	<20	500
PC85	49,000	410,070	.50	.50	10.0	1.5	500	N	N	N	<20	500
PC86	49,030	410,110	.50	.50	10.0	1.0	300	N	N	N	20	300
PC87	49,009	410,220	.50	.70	20.0	.7	300	N	N	N	N	300
PC88	49,100	410,275	.50	.50	10.0	.7	200	N	N	N	N	500
PC89	49,095	410,350	.50	.30	5.0	.3	150	N	N	N	N	700
PC9	49,718	411,060	.20	.70	10.0	>2.0	500	N	N	N	<20	100
PC90	49,100	410,390	.70	.70	15.0	1.5	500	N	N	N	N	300
PC91	41,716	412,330	.20	.07	10.0	2.0	500	N	N	N	N	300
PC92	47,165	412,370	.50	.07	7.0	>2.0	700	N	N	N	<20	200
PC93	49,920	412,450	.30	.15	5.0	>2.0	300	N	N	N	<20	1,000
PC94	47,025	412,390	.30	.20	7.0	>2.0	500	N	N	N	N	300
PC95	47,260	412,330	.50	.10	5.0	>2.0	300	N	N	N	N	700
PC96	49,905	412,311	.50	.15	7.0	>2.0	500	70	N	N	N	200
PC97	49,972	412,362	.50	.30	7.0	>2.0	500	N	N	N	N	200
PC98	49,773	412,310	.30	.15	15.0	2.0	300	N	N	N	N	300
PC99	49,760	412,360	.50	.15	15.0	>2.0	300	7	N	N	N	200

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
PC61	N	N	N	15	150	<10	700	<10	70	20	70
PC62	N	N	N	10	50	N	500	10	100	<10	500
PC63	N	N	N	10	50	N	500	<10	70	<10	50
PC64	2	N	N	<10	30	10	300	N	<50	10	70
PC65	<2	N	N	N	20	<10	200	N	<50	N	30
PC66	<2	N	N	10	30	1,000	500	<10	50	N	20
PC67	<2	N	N	<10	20	15	200	20	<50	10	50
PC68	2	N	N	N	<20	<10	300	N	<50	N	30
PC69	2	N	N	10	<20	N	100	N	N	N	30
PC7	<2	N	N	N	20	N	150	<10	<50	10	20
PC70	N	N	N	<10	70	N	700	10	70	<10	200
PC71	N	N	N	10	50	N	300	<10	100	N	20
PC72	N	N	N	<10	50	10	500	10	70	<10	20
PC73	N	N	N	<10	30	N	300	<10	50	10	70
PC74	N	N	N	10	50	N	700	<10	100	N	150
PC75	N	N	N	10	70	<10	700	N	70	N	200
PC76	<2	N	N	<10	50	N	500	10	50	<10	<20
PC77	2	N	N	N	20	N	150	N	<50	<10	20
PC78	N	N	N	N	20	N	500	10	50	10	50
PC79	<2	N	N	N	20	N	150	N	N	N	<20
PC8	N	N	N	N	70	N	300	N	50	10	20
PC80	N	N	N	10	50	N	500	N	70	N	20
PC81	N	N	N	<10	20	N	200	N	50	N	70
PC82	3	N	N	N	<20	<10	150	N	<50	N	100
PC83	14	N	N	15	50	10	300	<10	<50	10	70
PC84	N	N	N	<10	30	N	500	N	50	N	20
PC85	N	N	N	N	20	N	300	N	50	N	30
PC86	N	N	N	<10	<20	N	500	N	<50	N	20
PC87	N	N	N	N	20	<10	700	N	<50	N	70
PC88	N	N	N	N	<20	<10	500	10	<50	10	30
PC89	<2	N	N	N	N	N	200	N	N	N	30
PC9	N	N	N	<10	70	N	500	N	70	<10	<20
PC90	N	N	N	N	20	N	500	N	50	N	70
PC91	50	N	N	10	20	N	500	200	70	N	1,500
PC92	N	N	N	10	20	N	300	200	100	N	1,500
PC93	N	N	N	15	30	N	300	50	100	N	200
PC94	N	N	N	15	30	N	300	20	150	N	100
PC95	N	N	N	15	30	N	300	N	100	N	200
PC96	N	N	N	15	30	N	300	150	150	N	5,000
PC97	N	N	N	15	30	<10	500	N	150	<10	150
PC98	N	N	N	N	20	N	1,000	N	<50	N	70
PC99	N	N	N	<10	50	20	700	100	70	N	3,000

Table 2 Data for concentrate samples, Grapevine Wilderness Study Areas, Nye County, Nevada--continued

Sample	Sc-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
PC61	N	50	20	N	100	N	1,000	N	>2,000	<200
PC62	N	50	30	N	70	N	1,500	N	>2,000	200
PC63	N	30	<20	N	100	N	500	N	>2,000	200
PC64	N	50	N	<200	70	N	500	N	>2,000	<200
PC65	N	20	N	200	50	N	500	N	>2,000	N
PC66	N	50	N	N	70	N	700	N	>2,000	<200
PC67	N	15	N	N	50	N	300	N	>2,000	N
PC68	N	20	N	N	70	N	500	N	>2,000	N
PC69	N	10	N	500	<20	N	70	N	>2,000	N
PC7	N	10	70	<200	50	N	200	N	>2,000	<200
PC70	N	30	100	N	100	N	500	N	>2,000	N
PC71	N	30	<20	N	70	N	700	N	>2,000	<200
PC72	N	50	30	N	100	N	1,000	N	>2,000	<200
PC73	N	30	N	N	70	N	500	N	>2,000	N
PC74	N	50	<20	N	100	N	700	N	>2,000	200
PC75	N	50	100	<200	100	N	700	N	>2,000	<200
PC76	N	50	N	N	70	N	700	N	>2,000	N
PC77	N	20	N	<200	50	N	300	N	>2,000	<200
PC78	N	30	N	N	50	N	300	N	>2,000	N
PC79	N	50	N	N	50	N	500	N	>2,000	<200
PC8	N	30	50	N	70	N	500	N	>2,000	200
PC80	N	50	N	N	100	N	700	N	>2,000	N
PC81	N	20	N	200	50	N	300	N	>2,000	N
PC82	N	15	N	200	30	N	150	N	>2,000	<200
PC83	N	70	N	N	100	N	700	N	>2,000	<200
PC84	N	30	N	<200	70	N	500	N	>2,000	<200
PC85	N	20	N	300	70	N	300	N	>2,000	N
PC86	N	20	N	500	50	N	300	N	>2,000	<200
PC87	N	20	N	700	50	N	500	N	>2,000	N
PC88	N	10	N	700	50	N	300	N	>2,000	<200
PC89	N	<10	N	700	20	N	100	N	>2,000	N
PC9	N	30	N	<200	100	N	700	N	>2,000	<200
PC90	N	15	N	700	70	N	500	N	>2,000	N
PC91	N	30	N	<200	50	N	700	N	>2,000	2,000
PC92	N	50	N	<200	70	<100	700	N	>2,000	2,000
PC93	N	70	N	N	70	<100	500	N	>2,000	2,000
PC94	N	70	N	N	70	100	700	N	>2,000	2,000
PC95	N	70	N	N	70	N	500	N	>2,000	5,000
PC96	N	50	N	<200	70	200	500	N	>2,000	3,000
PC97	N	70	20	<200	70	<100	500	N	>2,000	1,000
PC98	N	20	N	300	70	N	150	N	>2,000	300
PC99	N	30	N	500	70	500	200	N	>2,000	2,000

Table 3 Data for rock samples, Grapevine Wilderness Study Areas, Nye County, Nevada
 [N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	X coor-dinate	Y coor-dinate	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s
NV1951	48,641	412,000	2.0	3.00	10.00	.002	2,000	150.0	<200	N
NV1952A	48,140	409,813	10.0	.02	.07	.070	100	N	1,000	N
NV1952B	48,146	409,813	.3	<.02	<.05	.020	20	N	N	N
NV1953	47,480	412,160	5.0	.15	.05	.030	200	1,500.0	500	N
NV1954	47,260	412,140	3.0	.30	5.00	.050	500	500.0	200	N
NV1955	46,010	411,860	.3	.20	1.00	.007	100	1,500.0	N	N
NV1956	46,001	411,900	1.0	.02	.20	.010	30	3,000.0	N	N
NV1957	45,820	411,760	7.0	.50	1.50	.050	300	300.0	N	N
NV1958	46,010	414,200	1.0	.20	2.00	.100	200	<.5	N	N
NV1959	46,080	411,340	5.0	7.00	5.00	.200	1,000	<.5	N	N
NV1960	46,980	412,300	.7	<.02	<.05	.002	<10	70.0	200	N
NV1961	46,900	412,300	.3	<.02	N	N	N	7.0	500	N
NV1962	46,650	412,141	1.5	.07	.05	.100	20	10.0	N	N
NV1963	46,660	412,150	.5	.07	.05	.100	20	.7	N	N
NV1964	46,740	412,210	5.0	.10	.70	.100	500	15.0	N	<10

Table 3 Data for rock samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s
NV1951	50	<20	N	N	>500	N	N	300	<20	10
NV1952A	30	200	3.0	<10	N	N	N	10	20	N
NV1952B	20	<20	2.0	N	N	N	N	<5	<20	N
NV1953	100	300	3.0	N	30	<5	N	1,000	<20	150
NV1954	30	<20	1.5	<10	70	10	N	1,000	<20	5
NV1955	<10	30	<1.0	N	20	N	N	1,000	<20	5
NV1956	30	100	1.0	N	20	5	N	2,000	<20	10
NV1957	50	200	2.0	N	30	20	N	3,000	<20	50
NV1958	200	1,500	2.0	N	N	5	N	7	20	N
NV1959	20	500	<1.0	N	N	50	1,000	70	N	N
NV1960	N	<20	<1.0	N	N	N	N	30	20	N
NV1961	N	<20	1.0	N	N	N	N	<5	<20	N
NV1962	30	>5,000	1.5	10	N	7	N	200	N	150
NV1963	20	2,000	1.5	N	N	<5	N	15	<20	N
NV1964	30	200	1.5	N	N	<5	10	7,000	<20	10

Table 3 Data for rock samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s
NV1951	N	5	>20,000	1,000	N	200	200	<10	N	N
NV1952A	N	N	100	N	N	N	<100	20	N	<10
NV1952B	N	<5	15	N	N	N	N	<10	N	<10
NV1953	N	N	5,000	1,500	<5	N	N	<10	N	10
NV1954	N	15	10,000	150	<5	N	100	10	N	<10
NV1955	N	N	7,000	100	N	N	500	<10	N	N
NV1956	N	N	10,000	300	N	N	2,000	30	N	N
NV1957	N	N	5,000	N	N	N	150	50	100	N
NV1958	N	N	30	N	<5	N	200	30	N	N
NV1959	N	500	20	N	10	N	200	50	N	10
NV1960	N	N	7,000	N	N	N	N	<10	N	N
NV1961	N	N	150	N	N	N	N	<10	N	N
NV1962	N	5	200	N	<5	N	150	30	N	<10
NV1963	N	N	20	N	N	N	N	15	N	N
NV1964	N	7	1,000	N	<5	N	N	20	N	<10

Table 3 Data for rock samples, Grapevine Wilderness Study Areas, Nye County, Nevada

Sample	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Sb-ppm aa
NV1951	>10,000	N	N	<.05	>10.00	140	>2,000	1,000
NV1952A	<200	100	N	N	<.02	1,100	100	28
NV1952B	N	20	N	N	<.02	75	10	14
NV1953	2,000	50	N	2.10	4.50	320	1,800	>1,000
NV1954	7,000	20	N	9.00	.90	75	>2,000	120
NV1955	1,500	<10	N	.60	2.70	45	1,500	66
NV1956	1,000	N	N	3.50	2.50	60	500	300
NV1957	5,000	10	N	1.20	1.90	110	>2,000	10
NV1958	N	70	N	<.05	N	<5	10	<2
NV1959	N	70	N	N	N	N	35	<2
NV1960	200	N	N	1.00	N	270	250	34
NV1961	N	N	N	.05	.08	550	40	36
NV1962	N	70	N	.85	1.20	5	95	6
NV1963	N	50	N	.15	.60	N	25	<2
NV1964	200	50	N	8.00	.34	5	160	2

00010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/20/84

TITLE INPUT ID N M ***** OPTIONS *****
-ds-1 - 177 36 0 0 0 0 0 0 0 0 0 0

Sr 12 - Computer

NUMBER OF SELECTED COLUMNS = 36

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36				

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P				

NUMBER OF SELECTED ROW PAIRS = 1

SELECTED ROW PAIRS
1- 177

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	X-COORD.	0	0	0	0	0	0	177	0	41716.000	49670.000	1
2	Y-COORD.	0	0	0	0	0	0	177	0	409655.00	418360.00	2
3	S-FEZ	0	0	0	0	0	0	177	0	2.0000000	15.000000	3
4	S-MG%	0	0	0	0	0	0	177	0	0.5000000	2.0000000	4
5	S-CAZ	0	0	0	0	0	0	177	0	0.7000000	5.0000000	5
6	S-TIZ	0	0	0	0	0	0	177	0	0.2000000	0.7000000	6
7	S-MN	0	0	0	0	0	0	177	0	300.00000	1500.0000	7
8	S-AG	171	0	3	0	0	0	3	0	0.5000000	2.0000000	8
9	S-AS	177	0	0	0	0	0	0	0			9
10	S-AU	177	0	0	0	0	0	0	0			10
11	S-B	0	0	0	0	0	0	177	0	20.000000	100.00000	11
12	S-RA	0	0	0	0	0	0	177	0	300.00000	1000.0000	12
13	S-BE	0	0	0	0	0	0	177	0	1.0000000	5.0000000	13
14	S-BI	176	0	1	0	0	0	0	0			14
15	S-CD	177	0	0	0	0	0	0	0			15
16	S-C0	0	0	0	0	0	0	177	0	7.0000000	20.000000	16
17	S-CR	0	0	0	0	0	0	177	0	15.000000	200.00000	17
18	S-CU	0	0	0	0	0	0	177	0	7.0000000	30.000000	18
19	S-LA	0	0	0	0	0	0	177	0	20.000000	150.00000	19
20	S-M0	159	0	6	0	0	0	12	0	5.0000000	10.000000	20
21	S-NR	164	0	13	0	0	0	0	0			21
22	S-NI	0	0	0	0	0	0	177	0	5.0000000	70.000000	22
23	S-PB	0	0	0	0	0	0	177	0	10.000000	300.00000	23
24	S-SB	177	0	0	0	0	0	0	0			24
25	S-SC	0	0	0	0	0	0	177	0	5.0000000	15.000000	25
26	S-SN	177	0	0	0	0	0	0	0			26
27	S-SR	0	0	0	0	0	0	177	0	150.00000	500.00000	27
28	S-V	0	0	0	0	0	0	177	0	20.000000	150.00000	28
29	S-W	177	0	0	0	0	0	0	0			29
30	S-Y	0	0	0	0	0	0	177	0	10.000000	50.000000	30
31	S-ZN	174	0	2	0	0	0	1	0	200.00000	200.00000	31
32	S-ZR	0	0	0	0	0	0	177	0	70.000000	500.00000	32
33	S-TH	177	0	0	0	0	0	0	0			33
34	AA-AS-P	5	0	19	0	0	0	153	0	5.0000000	45.000000	34
35	AA-IN-P	0	0	0	0	0	0	177	0	25.000000	250.00000	35
36	AA-SG-P	103	0	35	0	0	0	39	0	2.0000000	6.0000000	36

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	X-COORD.	47929.898	1326.8603	1760558.2	-3.61732350+09	-1.5485020	1.25285170+13	4.0420240	1
2	Y-COORD.	411097.44	1141.5783	1303201.0	4.29297350+09	2.8856329	2.81780710+13	16.591606	2
3	S-FEZ	3.0790960	1.3418370	1.8005265	10.750552	4.4497080	112.72899	34.772555	3
4	S-MGZ	0.8887006	0.2134325	0.0455534	0.0118270	1.2164470	0.0089644	4.3199343	4
5	S-CAZ	1.6649718	0.4184850	0.1751297	0.2410109	3.2884935	0.7107486	23.173760	5
6	S-TIX	0.4062147	0.1288755	0.0166089	0.0014048	0.6563203	-1.30839260-04	-0.4743043	6
7	S-MN	632.76836	162.54271	26420.134	5739047.3	1.3364025	3.02046600+09	4.3271698	7
8	S-AG	1.0000000	0.8660254	0.7500000	1.1250000	1.7320508			8
9	S-AS								9
10	S-AJ								10
11	S-B	46.723164	15.972177	255.11043	2618.2904	0.6425775	35237.241	0.5414339	11
12	S-BA	580.79096	135.56886	18378.916	2469152.2	0.9909871	5.56598900+08	1.6477926	12
13	S-BE	1.3898305	0.3851040	0.1483051	0.2642846	4.6274083	0.9464030	43.029275	13
14	S-BI								14
15	S-CD								15
16	S-CG	12.813559	3.3327298	11.107088	12.582725	0.3399182	-73.604930	-0.5966319	16
17	S-CR	45.706215	23.346898	568.67456	36874.126	2.7191053	4107009.5	12.699836	17
18	S-CU	15.022599	2.9464054	8.6813046	13.633660	0.5330095	287.17960	3.8105144	18
19	S-LA	44.519774	19.421126	377.18285	13088.419	1.7867315	763548.96	5.3670177	19
20	S-MO	6.5000000	1.8829377	3.5454545	7.2000000	1.0785111	1.4181818	0.1128205	20
21	S-NB								21
22	S-NI	15.259887	7.2809079	53.011620	1661.8842	4.3057036	70900.794	25.229517	22
23	S-PB	31.440678	25.596034	655.15697	125238.89	7.4682898	30741085.	71.619033	23
24	S-SB								24
25	S-SC	7.5141243	1.7454725	3.0466744	8.4931470	1.5970907	39.425736	4.2474447	25
26	S-SN								26
27	S-SR	318.92655	96.798057	9369.8639	809084.63	0.8920599	-9377531.7	-0.1058125	27
28	S-SV	50.734463	15.038685	226.16204	6431.9099	1.8910820	546384.40	10.682154	28
29	S-U								29
30	S-Y	21.016949	4.9811857	24.812211	219.76131	1.7780871	3667.3174	5.9568623	30
31	S-ZN	200.00000							31
32	S-ZR	164.80226	46.929473	2202.3754	261196.08	2.5271418	72391198.	14.924612	32
33	S-TH								33
34	AA-AS-P	9.8039215	4.8626650	23.645511	354.07141	3.0794121	10117.475	18.095673	34
35	AA-ZN-P	57.118644	22.313697	497.20062	46413.470	4.1776306	7835394.6	31.606437	35
36	AA-SB-P	2.2051282	0.7670685	0.5883941	1.8280629	4.0503141	5.9075756	17.063681	36

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

D0010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/20/84

TITLE INPUT ID N M ***** OPTIONS *****
-ds-2 - 177 33 0 0 0 0 0 0 0 0 0

NUMBER OF SELECTED COLUMNS = 33

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33							

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CB	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH							

NUMBER OF SELECTED ROW PAIRS = 1

SELECTED ROW PAIRS
1- 177

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	X-COORD.	0	0	0	0	0	0	177	0	41716.000	49670.000	1
2	Y-COORD.	0	0	0	0	0	0	177	0	49208.000	418360.00	2
3	S-FEX	0	0	0	0	0	0	177	0	0.1500000	2.0000000	3
4	S-MGX	0	0	0	0	0	0	177	0	0.0700000	5.0000000	4
5	S-CAZ	0	0	0	0	0	0	177	0	1.5000000	20.000000	5
6	S-TIZ	0	0	0	78	0	0	99	0	0.2000000	2.0000000	6
7	S-MN	0	0	0	0	0	0	177	0	150.00000	1000.0000	7
8	S-AG	159	0	1	0	0	0	17	0	1.0000000	100.00000	8
9	S-AS	176	0	0	0	0	0	1	0	500.00000	500.00000	9
10	S-AU	177	0	0	0	0	0	0	0			10
11	S-B	84	0	69	0	0	0	24	0	20.000000	50.000000	11
12	S-BA	0	0	0	4	0	0	173	0	100.00000	10000.000	12
13	S-BE	137	0	26	0	0	0	14	0	2.0000000	30.000000	13
14	S-BI	168	0	0	0	0	0	9	0	20.000000	300.00000	14
15	S-CD	177	0	0	0	0	0	0	0			15
16	S-CO	69	0	64	0	0	0	44	0	10.000000	20.000000	16
17	S-CR	4	0	21	0	0	0	152	0	20.000000	150.00000	17
18	S-CU	106	0	32	0	0	0	32	0	10.000000	1000.0000	18
19	S-LA	0	0	0	0	0	0	177	0	50.000000	2000.0000	19
20	S-MJ	135	0	14	0	0	0	28	0	10.000000	500.00000	20
21	S-NB	11	0	49	0	0	0	117	0	50.000000	150.00000	21
22	S-NI	92	0	50	0	0	0	35	0	10.000000	20.000000	22
23	S-PB	0	0	11	0	0	0	166	0	20.000000	15000.000	23
24	S-S3	176	0	0	0	0	0	1	0	300.00000	300.00000	24
25	S-SC	0	0	8	0	0	0	169	0	10.000000	70.000000	25
26	S-SN	115	0	14	0	0	0	48	0	20.000000	1000.0000	26
27	S-SR	55	0	40	0	0	0	82	0	200.00000	1000.0000	27
28	S-V	0	0	5	0	0	0	172	0	20.000000	300.00000	28
29	S-W	153	0	3	0	0	0	16	0	100.00000	700.00000	29
30	S-Y	0	0	0	0	0	0	177	0	30.000000	1500.0000	30
31	S-ZN	175	0	1	0	0	0	1	0	2000.0000	2000.0000	31
32	S-ZR	0	0	0	171	0	0	6	0	1500.0000	2000.0000	32
33	S-TH	69	C	51	0	0	0	57	0	200.00000	5000.0000	33

NO	COLUMN	K1 MEAN	SGRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	X-COORD.	47929.831	1327.0023	1760935.1	-3.6176520d+09	-1.5481454	1.2524797d+13	4.0390943	1
2	Y-COORD.	409058.21	27225.375	7.4122106d+08	-2.6776506d+14	-13.268819	9.6901506d+19	176.37419	2
3	S-FEX	0.6101695	0.2856084	0.0815721	0.0496552	2.1313358	0.0547081	8.2218263	3
4	S-MG%	0.5618079	0.4498019	0.2023217	0.5324525	5.8508258	2.2198247	54.229262	4
5	S-CAZ	7.1977401	4.1799570	17.472040	91.901687	1.2583691	436.01351	1.4282778	5
6	S-TIZ	1.6080803	0.5148165	0.2650361	-0.1512569	-1.1085558	0.0082922	0.1180486	6
7	S-MN	385.31073	155.42844	24157.999	3490743.5	0.9296650	3.2710617d+08	0.5604886	7
8	S-AG	27.588235	31.283100	978.63235	31129.449	1.0168153	-61275.236	-0.0639802	8
9	S-AS	500.00000							9
10	S-AU								10
11	S-B	25.416667	8.8362724	78.079710	1328.2279	1.9251533	21207.181	3.4786165	11
12	S-EA	816.47399	1461.6424	2136398.5	1.3696091d+10	4.3860463	9.7099555d+13	21.274173	12
13	S-EE	5.2857143	7.9074315	62.527473	1406.1868	2.8440466	31863.726	8.1499476	13
14	S-BI	98.888889	85.212154	7261.1111	1170746.0	1.8921609	2.1729040d+08	4.1213013	14
15	S-CO								15
16	S-CO	11.931318	2.8966519	8.3905920	29.645500	1.2197473	41.441914	0.5886465	16
17	S-CR	40.460526	19.845056	393.82625	11534.725	1.4758773	768638.33	4.9557881	17
18	S-CU	78.281250	186.05241	34615.499	27533931.	4.2752579	2.4506181d+10	20.451937	18
19	S-LA	417.62712	284.30940	80831.837	49976106.	2.1746468	4.8018700d+10	7.3492919	19
20	S-MO	67.678571	112.30318	12612.004	3806752.9	2.6876860	1.2544114d+09	7.8862726	20
21	S-N3	59.401709	26.401757	697.05276	29049.635	1.5784914	1045484.3	2.1517223	21
22	S-NI	11.428571	5.1086759	9.6638655	62.070283	2.0661289	288.50745	3.0892658	22
23	S-PB	401.74699	1748.7980	3058294.5	3.9582892d+10	7.4009685	5.4856681d+14	58.650392	23
24	S-SB	300.00000							24
25	S-SC	30.946746	16.734716	280.05072	3808.3288	0.8126048	-21153.710	-0.2697200	25
26	S-SN	71.458333	148.76784	22131.871	18249324.	5.5426775	1.6539250d+10	33.765996	26
27	S-SR	379.26829	193.56168	37466.125	86336291.8	1.1908831	1.3910829d+09	0.9910041	27
28	S-V	71.220930	29.154146	850.54740	78231.052	3.1537800	15804111.	21.846056	28
29	S-W	246.87500	130.24867	32489.583	8052901.3	1.3751060	1.3942185d+09	1.3208167	29
30	S-Y	395.14124	246.56989	60776.713	25417520.	1.6955594	1.9791586d+10	5.3545182	30
31	S-ZN	2000.0000							31
32	S-ZR	1916.6667	204.12415	41666.667	-20833333.	-2.4494897	1.0416667d+10	6.0000000	32
33	S-TH	1143.8596	1382.2882	1910720.6	5.1298748d+09	1.9418976	1.1087313d+13	3.0369102	33

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

D0010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/20/84

TITLE INPUT ID N M ***** OPTIONS *****
-ds-3 - 15 38 0 0 0 0 0 0 0 0 0 0

NUMBER OF SELECTED COLUMNS = 38

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38		

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P		

NUMBER OF SELECTED ROW PAIRS = 1

SELECTED ROW PAIRS
1- 15

D0010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/20/84

NO	COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	X-COORD.	0	0	0	0	0	0	15	0	45820.000	48841.000	1
2	Y-COORD.	0	0	0	0	0	0	15	0	409813.00	414200.00	2
3	S-FEX	0	0	0	0	0	0	15	0	0.3000000	10.000000	3
4	S-MGX	0	0	3	0	0	0	12	0	0.0200000	7.0000000	4
5	S-CAZ	1	0	2	0	0	0	12	0	0.0500000	10.000000	5
6	S-TIZ	1	0	0	0	0	0	14	0	0.0020000	0.2000000	6
7	S-MN	1	0	1	0	0	0	13	0	20.000000	2000.0000	7
8	S-AG	2	0	2	0	0	0	11	0	0.7000000	3000.0000	8
9	S-AS	9	0	1	0	0	0	5	0	200.00000	1000.0000	9
10	S-AU	14	0	1	0	0	0	0	0			10
11	S-B	2	0	1	0	0	0	12	0	20.000000	200.00000	11
12	S-BA	0	0	5	1	0	0	9	0	30.000000	2000.0000	12
13	S-BE	1	0	3	0	0	0	11	0	1.0000000	3.0000000	13
14	S-BI	12	0	2	0	0	0	1	0	10.000000	10.000000	14
15	S-CD	9	0	0	1	0	0	5	0	20.000000	70.000000	15
16	S-CO	6	0	3	0	0	0	6	0	5.0000000	50.000000	16
17	S-CR	13	0	0	0	0	0	2	0	10.000000	1000.0000	17
18	S-CU	0	0	2	0	0	0	13	0	7.0000000	7000.0000	18
19	S-LA	2	0	0	10	0	0	3	0	20.000000	20.000000	19
20	S-MG	7	0	0	0	0	0	8	0	5.0000000	150.000000	20
21	S-NB	15	0	0	0	0	0	0	0			21
22	S-NI	9	0	1	0	0	0	5	0	5.0000000	500.00000	22
23	S-PB	0	0	0	1	0	0	14	0	15.000000	10000.000	23
24	S-SE	10	0	0	0	0	0	5	0	100.0000	1500.0000	24
25	S-SC	9	0	5	0	0	0	1	0	10.000000	10.000000	25
26	S-SN	14	0	0	0	0	0	1	0	200.00000	200.00000	26
27	S-SR	6	0	1	0	0	0	8	0	100.00000	2000.0000	27
28	S-V	0	0	6	0	0	0	9	0	10.000000	50.000000	28
29	S-W	14	0	0	0	0	0	1	0	100.00000	100.00000	29
30	S-Y	8	0	5	0	0	0	2	0	10.000000	10.000000	30
31	S-ZN	6	0	1	1	0	0	7	0	200.00000	7000.00000	31
32	S-ZR	4	0	1	0	0	0	10	0	10.000000	100.00000	32
33	S-TH	15	0	0	0	0	0	0	0			33
34	AA-AU-P	3	0	2	0	0	0	10	0	0.0500000	9.0000000	34
35	INST-HG	3	0	2	1	0	0	9	0	0.0800000	4.5000000	35
36	AA-AS-P	2	0	1	0	0	0	12	0	5.0000000	1100.0000	36
37	AA-ZN-P	0	0	0	3	0	0	12	0	10.000000	1800.0000	37
38	AA-SB-P	0	0	3	1	0	0	11	0	2.0000000	1000.0000	38

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	X-COORD.	46921.600	914.64340	836572.54	5.51150520+08	0.7203023	-1.91586170+11	-0.2737518	1
2	Y-COORD.	411872.47	1034.9758	1071174.8	-3.90060640+08	-0.3518371	2.87414200+12	2.5048833	2
3	S-FEZ	2.8400000	2.9432247	8.6625714	31.488290	1.2350338	68.301507	0.9101996	3
4	S-MG%	0.9691667	2.0712686	4.2901538	24.222476	2.7258957	137.66582	7.4796348	4
5	S-CA%	2.1350000	3.0613975	9.3721545	52.977801	1.8464382	284.87399	3.2432013	5
6	S-TIZ	0.0600714	0.0560473	0.0031413	2.00590220-04	1.1393186	1.52025190-05	1.5406221	6
7	S-MN	383.84615	561.00414	314725.64	4.14701070+08	2.3487509	5.83090640+11	5.8856988	7
8	S-AG	641.15455	966.74215	934590.38	1.59255540+09	1.7626358	2.38654710+12	2.7322938	8
9	S-AS	480.00000	327.10854	107000.00	40300000.	1.1514084	1.51700000+10	1.3250066	9
10	S-AU								10
11	S-B	50.833333	51.954234	2699.2424	360519.70	2.5707874	50124712.	6.8796780	11
12	S-BA	558.88889	699.07876	488711.11	5.50547250+08	1.6114472	3.20955700+11	1.3438187	12
13	S-BE	1.8181818	0.6809085	0.4636364	0.2560606	0.8111040	-0.0079545	-0.0370050	13
14	S-BI	10.000000							14
15	S-CD	34.000000	20.736441	430.00000	17100.000	1.9177563	717000.00	3.8777718	15
16	S-CU	16.166667	17.497619	306.16667	10498.667	1.9597347	359239.17	3.8323739	16
17	S-CR	505.00000	700.03571	490050.00					17
18	S-CU	1202.4615	1965.0974	3861607.9	1.88371170+10	2.4823452	1.00250740+14	6.7228161	18
19	S-LA	20.000000	0.0	0.0	0.0	0.0			19
20	S-MO	48.750000	64.184444	4119.6429	330267.86	1.2490418	-6264000.0	-0.3690903	20
21	S-NB								21
22	S-NI	106.40000	220.06772	48429.800	23810854.	2.2341172	1.17106250+10	4.9929213	22
23	S-PB	3252.5000	3931.8408	15459372.	4.43625940+10	0.7298425	-2.69482120+14	-1.1275771	23
24	S-SB	610.00000	614.81705	378000.00	2.10212500+08	0.9045255	-1.77798750+11	-1.2443573	24
25	S-SC	10.000000							25
26	S-SN	200.00000							26
27	S-SR	437.50000	642.25634	413392.86	7.02625000+08	2.6434990	1.21862000+12	7.1308675	27
28	S-V	28.333333	14.142136	200.00000	1714.2857	0.6060915	-23482.143	-0.5870536	28
29	S-W	100.00000							29
30	S-Y	10.000000	0.0	0.0					30
31	S-ZW	2414.2857	2598.9925	6754761.9	2.06131430+10	1.1741650	5.48454760+12	0.1202045	31
32	S-ZR	51.000003	28.067379	787.77778	1350.0000	0.0610560	-329555.56	-0.5310326	32
33	S-TH								33
34	AA-AU-P	2.6450000	3.2531566	10.583028	49.425810	1.4356180	76.573566	0.6836896	34
35	INST-HG	1.6355556	1.4167137	2.0070778	2.8677333	1.0085402	2.8313159	0.7028456	35
36	AA-AG-P	229.58333	316.79114	100356.63	70855994.	2.2287302	5.28354930+10	5.2460646	36
37	AA-ZN-P	377.08333	613.31615	376770.27	4.38747250+08	1.8971404	3.38638250+11	2.3855184	37
38	AA-SB-P	146.90909	295.79096	87492.291	74390314.	2.8744960	6.56829340+10	8.5805073	38

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

Grapevine seeds.

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****
Nevada data	-ds-1	177	36	1 0 0 0 2 1 0 0 0 0

VARIABLE NO. 9 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 10 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 14 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 15 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 21 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 24 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 26 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 29 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.23010E+01 FOR VARIABLE NO. 31 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 33 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

TITLE Nevada data INPUT ID -ds-1 N 177 M 36 ***** OPTIONS ***** 1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 24

SELECTED VARIABLE INDICES

3	4	5	6	7	8	11	12	13	16
17	18	19	20	22	23	25	27	28	30
32	34	35	36						

SELECTED VARIABLE IDENTIFIERS

S-FEZ	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE	S-CO
S-CR	S-CU	S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V	S-Y
S-ZR	AA-AS-P	AA-ZN-P	AA-SB-P						

SELECTED ROW PAIRS

1 TO 177

LOWER BOUNDARIES OF THE LOWEST CLASSES

0.25000	-0.41700	-0.25000	-0.75000	2.41600	-0.41700	1.25000	2.41600	-0.08400	0.75000
1.08300	0.75000	1.25000	0.58300	0.58300	0.91600	0.58300	2.08300	1.25000	0.91600
1.75000	0.53300	1.25000	0.25000						

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667						

D0030 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 3 (S-FEZ)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	11.93	11.93
2.500E-01 - 4.167E-01	54	54	30.51	30.51	54.36	0.00
4.167E-01 - 5.833E-01	95	149	53.67	84.18	76.00	4.75
5.833E-01 - 7.500E-01	26	175	14.69	98.87	30.97	0.80
7.500E-01 - 9.167E-01	1	176	0.56	99.44	3.62	1.89
9.167E-01 - 1.083E+00	0	176	0.00	99.44	0.00	0.00
1.083E+00 - 1.250E+00	1	177	0.56	100.00	0.12	6.54
G	0	177	0.00	100.00	11.93	11.93
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.162E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.642E+00 XXXXXXXXXXXXXXXXX
 6.813E+00 X
 1.000E+01
 1.468E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
 MAXIMUM ANTILOG = 1.50000E+01
 GEOMETRIC MEAN = 2.89744E+00
 GEOMETRIC DEVIATION = 1.38604E+00
 VARIANCE OF LOGS = 2.01003E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	6.493598E-01	4.460256E+00
95.00	7.060907E-01	5.082655E+00
98.00	7.401292E-01	5.497044E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.04	0.04
-4.170E-01 - -2.503E-01	6	6	3.39	3.39	5.45	0.05
-2.503E-01 - -8.367E-02	69	75	38.98	42.37	68.53	0.00
-8.367E-02 - 8.300E-02	95	170	53.67	96.05	90.04	0.27
8.300E-02 - 2.497E-01	6	176	3.39	99.44	12.78	3.60
2.497E-01 - 4.163E-01	1	177	0.56	100.00	0.16	4.25
G	0	177	0.00	100.00	0.04	0.04
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

4.638E-01 XXX
 6.808E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
 1.467E+00 XXX
 2.153E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
 MAXIMUM ANTILOG = 2.00000E+00
 GEOMETRIC MEAN = 8.65127E-01
 GEOMETRIC DEVIATION = 1.26018E+00
 VARIANCE OF LOGS = 1.00868E-02

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	6.422903E-02	1.159389E+00
95.00	7.975538E-02	1.201587E+00
98.00	1.791123E-01	1.510471E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 5 (S-CAX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.00	0.00
-2.500E-01 - -8.333E-02	1	1	0.56	0.56	0.18	3.68
-8.333E-02 - 8.333E-02	10	11	5.65	6.21	15.95	2.22
8.333E-02 - 2.500E-01	108	119	61.02	67.23	100.85	0.51
2.500E-01 - 4.167E-01	54	173	30.51	97.74	57.32	0.19
4.167E-01 - 5.833E-01	3	176	1.69	99.44	2.69	0.04
5.833E-01 - 7.500E-01	1	177	0.56	100.00	0.01	121.51
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

```

6.813E-01 X
1.000E+00 XXXXXX
1.463E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XX
4.642E+00 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
 MAXIMUM ANTILOG = 5.00000E+00
 GEOMETRIC MEAN = 1.62348E+00
 GEOMETRIC DEVIATION = 1.24542E+00
 VARIANCE OF LOGS = 9.08473E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
------------------------	------------	-------------------

90.00	3.743840E-01	2.368012E+00
95.00	4.016988E-01	2.521731E+00
98.00	4.422236E-01	2.768367E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.03	1.03
-7.500E-01	-5.833E-01	4	4	2.26	2.26	16.76	9.72
-5.833E-01	-4.167E-01	90	94	50.85	53.11	68.30	6.90
-4.167E-01	-2.500E-01	70	164	39.55	92.66	70.89	0.01
-2.500E-01	-8.333E-02	13	177	7.34	100.00	20.02	2.46
G		0	177	0.00	100.00	1.03	1.03
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

2.154E-01 XX
 3.162E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.642E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E-01 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-01
 MAXIMUM ANTILOG = 7.00000E-01
 GEOMETRIC MEAN = 3.87173E-01
 GEOMETRIC DEVIATION = 1.36124E+00
 VARIANCE OF LOGS = 1.79335E-02

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-2.611895E-01	5.480378E-01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.04	0.04
2.416E+00 - 2.583E+00	4	4	2.26	2.26	4.68	0.10
2.583E+00 - 2.749E+00	75	79	42.37	44.63	58.59	4.60
2.749E+00 - 2.916E+00	84	163	47.46	92.09	93.42	0.95
2.916E+00 - 3.083E+00	13	176	7.34	99.44	19.78	2.32
3.083E+00 - 3.249E+00	1	177	0.56	100.00	0.50	0.51
G	0	177	0.00	100.00	0.04	0.04
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

3.157E+02 XX
 4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 9.985E+02 XXXXXX
 1.466E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+02
 MAXIMUM ANTILOG = 1.50000E+03
 GEOMETRIC MEAN = 6.13918E+02
 GEOMETRIC DEVIATION = 1.27742E+00
 VARIANCE OF LOGS = 1.13067E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.908660E+00	8.103259E+02
95.00	2.982027E+00	9.594598E+02
98.00	3.050104E+00	1.122287E+03

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 8 (S-AG)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	171	171	96.61	96.61		
L	3	174	1.69	98.31		
T	0	174	0.00	98.31	0.74	0.74
-4.170E-01 - -2.503E-01	2	176	1.13	99.44	150.07	146.10
-2.503E-01 - -8.367E-02	0	176	0.00	99.44	0.00	0.00
-8.367E-02 - 8.300E-02	0	176	0.00	99.44	0.00	0.00
8.300E-02 - 2.497E-01	0	176	0.00	99.44	0.00	0.00
2.497E-01 - 4.163E-01	1	177	0.56	100.00	26.19	24.23
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

HISTOGRAM FOR VARIABLE 8 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

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

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
 MAXIMUM ANTILOG = 2.00000E+00
 GEOMETRIC MEAN = 7.93701E-01
 GEOMETRIC DEVIATION = 2.22638E+00
 VARIANCE OF LOGS = 1.20825E-01

PERCENT TABLE FOR VARIABLE 8 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.80	0.80
1.250E+00	- 1.417E+00	5	5	2.82	2.82	10.85	3.16
1.417E+00	- 1.583E+00	58	63	32.77	35.59	49.16	1.59
1.583E+00	- 1.750E+00	82	145	46.33	81.92	73.48	0.99
1.750E+00	- 1.917E+00	29	174	16.38	98.31	36.44	1.52
1.917E+00	- 2.083E+00	3	177	1.69	100.00	6.26	1.70
G		0	177	0.00	100.00	0.80	0.80
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XXX
 3.102E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXXXXXXXXX
 1.000E+02 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 1.00000E+02
 GEOMETRIC MEAN = 4.40633E+01
 GEOMETRIC DEVIATION = 1.41524E+00
 VARIANCE OF LOGS = 2.27501E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.832185E+00	6.794931E+01
95.00	1.883047E+00	7.639189E+01
98.00	1.913565E+00	8.195294E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.05	0.05
2.416E+00 - 2.583E+00	6	6	3.39	3.39	7.29	0.23
2.583E+00 - 2.749E+00	104	110	58.76	62.15	78.60	8.21
2.749E+00 - 2.916E+00	60	170	33.90	96.05	82.51	6.14
2.916E+00 - 3.083E+00	7	177	3.95	100.00	8.55	0.28
G	0	177	0.00	100.00	0.05	0.05
H	0	177				
S	0	177				

TOTALS LESS H AND S 177

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

3.157E+02 XXX
 4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 9.985E+02 XXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+02
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 5.66096E+02
 GEOMETRIC DEVIATION = 1.25365E+00
 VARIANCE OF LOGS = 9.63840E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LG OF VALUE
90.00	2.886279E+00	7.696243E+02
95.00	2.910862E+00	8.144457E+02
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 13 (S-BE)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0	0.00	0.00		
L	0	0	0	0.00	0.00		
T	0	0	0	0.00	0.00	2.79	2.79
-8.400E-02	-8.267E-02	55	55	31.07	31.07	53.02	0.07
8.267E-02	2.493E-01	112	167	63.28	94.35	100.43	1.33
2.493E-01	4.160E-01	9	176	5.08	99.44	20.39	6.36
4.160E-01	5.827E-01	0	176	0.00	99.44	0.00	0.00
5.827E-01	7.493E-01	1	177	0.56	100.00	0.38	1.03
G	0	177	0	0.00	100.00	2.79	2.79
H	0	177					
B	0	177					

TOTALS LESS H AND B 177

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

```

9.985E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.465E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+00 XXXXX
3.157E+00
4.634E+00 x

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
 MAXIMUM ANTILOG = 5.00000E+00
 GEOMETRIC MEAN = 1.35108E+00
 GEOMETRIC DEVIATION = 1.25846E+00
 VARIANCE OF LOGS = 9.96734E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.378756E-01	1.729321E+00
95.00	2.706303E-01	1.864792E+00
98.00	3.689639E-01	2.338643E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.25	0.25
7.500E-01 - 9.167E-01	9	9	5.08	5.08	10.80	0.30
9.167E-01 - 1.083E+00	76	85	42.94	48.02	71.62	0.27
1.083E+00 - 1.250E+00	79	164	44.63	92.66	79.21	0.00
1.250E+00 - 1.417E+00	13	177	7.34	100.00	15.12	0.30
G	0	177	0.00	100.00	0.25	0.25
H	0	177				
S	0	177				

TOTALS LESS H AND S 177

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

6.813E+00 XXXXX
1.000E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+01 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 1.23531E+01
GEOMETRIC DEVIATION = 1.30248E+00
VARIANCE OF LOGS = 1.31726E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.240085E+00	1.733142E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.083E+00 - 1.250E+00	2	2	1.13	1.13	0.54	0.54
1.250E+00 - 1.416E+00	19	21	10.73	11.86	4.74	1.58
1.416E+00 - 1.583E+00	54	75	30.51	42.37	21.80	0.36
1.583E+00 - 1.750E+00	76	151	42.94	85.31	49.89	0.34
1.750E+00 - 1.916E+00	18	169	10.17	95.48	56.96	6.36
1.916E+00 - 2.083E+00	5	174	2.82	98.31	32.46	6.44
2.083E+00 - 2.250E+00	2	176	1.13	99.44	9.22	1.93
2.250E+00 - 2.416E+00	1	177	0.56	100.00	1.30	0.38
G	0	177	0.00	100.00	0.09	8.77
H	0	177			0.54	0.54
B	0	177				

TOTALS LESS H AND B 177

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

1.467E+01 X
 2.153E+01 XXXXXXXXXXXXXXX
 3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.303E+01 XXXXXXXXXX
 9.992E+01 XXX
 1.467E+02 X
 2.153E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+01
 MAXIMUM ANTILOG = 2.00000E+02
 GEOMETRIC MEAN = 4.11926E+01
 GEOMETRIC DEVIATION = 1.56268E+00
 VARIANCE OF LOGS = 3.75854E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.826520E+00	6.706872E+01
95.00	1.908465E+00	8.099620E+01
98.00	2.065002E+00	1.161454E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
7.500E-01	- 9.167E-01	2	2	1.13	1.13	0.41	6.22
9.167E-01	- 1.083E+00	23	25	12.99	14.12	29.63	1.48
1.083E+00	- 1.250E+00	127	152	71.75	85.88	115.44	1.16
1.250E+00	- 1.417E+00	24	176	13.56	99.44	31.07	1.61
1.417E+00	- 1.583E+00	1	177	0.56	100.00	0.45	0.67
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

```

6.813E+00 X
1.000E+01 XXXXXXXXXXXXXXXX
1.468E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+01 XXXXXXXXXXXXXXXX
3.162E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
 MAXIMUM ANTILOG = 3.00000E+01
 GEOMETRIC MEAN = 1.47269E+01
 GEOMETRIC DEVIATION = 1.22672E+00
 VARIANCE OF LOGS = 7.87602E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.300596E+00	1.998460E+01
95.00	1.362154E+00	2.302258E+01
98.00	1.399029E+00	2.506277E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	2.80	2.80
1.250E+00 - 1.417E+00	10	10	5.65	5.65	18.80	4.12
1.417E+00 - 1.583E+00	72	82	40.68	46.33	54.17	5.87
1.583E+00 - 1.750E+00	71	153	40.11	86.44	63.85	0.80
1.750E+00 - 1.917E+00	16	169	9.04	95.48	30.82	7.13
1.917E+00 - 2.083E+00	7	176	3.95	99.44	6.06	0.14
2.083E+00 - 2.250E+00	1	177	0.56	100.00	0.50	0.51
G	0	177	0.00	100.00	2.80	2.80
H	0	177				
S	0	177				

TOTALS LESS H AND S 177

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

```

2.154E+01 XXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXX
1.000E+02 XXXX
1.463E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 1.50000E+02
 GEOMETRIC MEAN = 4.11201E+01
 GEOMETRIC DEVIATION = 1.47729E+00
 VARIANCE OF LOGS = 2.87185E-02

PERCENT TABLE FOR VARIABLE 19 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.815626E+00	6.549729E+01
95.00	1.907814E+00	8.087491E+01
98.00	2.022859E+00	1.054044E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 20 (S-MO)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR (NORMAL DIST) FREQ	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		159	159	89.83	89.83		
L		6	165	3.39	93.22		
T		0	165	0.00	93.22	0.12	0.12
5.830E-01	- 7.497E-01	6	171	3.39	96.61	154.65	142.88
7.497E-01	- 9.163E-01	4	175	2.26	98.87	0.00	0.00
9.163E-01	- 1.083E+00	2	177	1.13	100.00	22.23	18.41
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

4.638E+00 XXX
6.808E+00 XX
9.992E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 6.27843E+00
GEOMETRIC DEVIATION = 1.30771E+00
VARIANCE OF LOGS = 1.35748E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	8.521672E-01	7.114874E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.01	0.01
5.830E-01	- 7.497E-01	1	1	0.56	0.56	0.55	0.37
7.497E-01	- 9.163E-01	3	4	1.69	2.26	9.03	4.03
9.163E-01	- 1.083E+00	49	53	27.68	29.94	46.25	0.16
1.083E+00	- 1.250E+00	91	144	51.41	81.36	75.23	3.31
1.250E+00	- 1.416E+00	27	171	15.25	96.61	39.14	3.77
1.416E+00	- 1.583E+00	2	173	1.13	97.74	6.45	3.07
1.583E+00	- 1.750E+00	3	176	1.69	99.44	0.33	21.62
1.750E+00	- 1.916E+00	1	177	0.56	100.00	0.01	192.79
G		0	177	0.00	100.00	0.01	0.01
H		0	177				
U		0	177				

TOTALS LESS H AND U 177

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

```

4.638E+00 X
6.808E+00 XX
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXX
3.163E+01 X
4.638E+01 XX
6.803E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 7.00000E+01
 GEOMETRIC MEAN = 1.42606E+01
 GEOMETRIC DEVIATION = 1.40640E+00
 VARIANCE OF LOGS = 2.19366E-02

PERCENT TABLE FOR VARIABLE 22 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.344113E+00	2.208577E+01
95.00	1.398742E+00	2.504623E+01
98.00	1.608558E+00	4.060295E+01

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.27	0.27
9.160E-01 - 1.083E+00	1	1	0.56	0.56	3.49	1.77
1.083E+00 - 1.249E+00	3	4	1.69	2.26	20.31	14.75
1.249E+00 - 1.416E+00	67	71	37.85	40.11	52.61	3.94
1.416E+00 - 1.583E+00	81	152	45.76	85.88	60.85	6.67
1.583E+00 - 1.749E+00	19	171	10.73	96.61	31.46	4.93
1.749E+00 - 1.916E+00	2	173	1.13	97.74	7.24	3.80
1.916E+00 - 2.083E+00	2	175	1.13	98.87	0.74	2.16
2.083E+00 - 2.249E+00	1	176	0.56	99.44	0.00	0.00
2.249E+00 - 2.416E+00	0	176	0.00	99.44	0.00	0.00
2.416E+00 - 2.583E+00	1	177	0.56	100.00	0.03	27.70
G	0	177	0.00	100.00	0.27	0.27
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

```

9.985E+00 X
1.466E+01 XX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXX
6.802E+01 X
9.935E+01 X
1.466E+02 X
2.151E+02
3.157E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 3.00000E+02
 GEOMETRIC MEAN = 2.79349E+01
 GEOMETRIC DEVIATION = 1.51060E+00
 VARIANCE OF LOGS = 3.20942E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
------------------------	------------	-------------------

90.00
95.00
98.00

1.646703E+00
1.724335E+00
1.954335E+00

4.433056E+01
5.300721E+01
9.001925E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.19	0.19
5.830E-01 - 7.497E-01	19	19	10.73	10.73	18.29	0.03
7.497E-01 - 9.163E-01	120	139	67.80	78.53	106.92	1.60
9.163E-01 - 1.083E+00	35	174	19.77	98.31	49.95	4.47
1.083E+00 - 1.250E+00	3	177	1.69	100.00	1.64	1.13
G	0	177	0.00	100.00	0.19	0.19
H	0	177				
D	0	177				

TOTALS LESS H AND B 177

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

4.638E+00 XXXXXXXXXXXXXXX
 6.808E+00 XXX
 9.992E+00 XXXXXXXXXXXXXXXXXXXXXXX
 1.467E+01 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 1.50000E+01
 GEOMETRIC MEAN = 7.33926E+00
 GEOMETRIC DEVIATION = 1.23680E+00
 VARIANCE OF LOGS = 3.51907E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.013001E+00	1.030388E+01
95.00	1.055144E+00	1.135387E+01
98.00	1.080430E+00	1.203454E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.12	0.12
2.083E+00	- 2.250E+00	1	1	0.56	0.56	5.25	3.44
2.250E+00	- 2.416E+00	33	34	18.64	19.21	46.26	3.80
2.416E+00	- 2.583E+00	102	143	61.58	80.79	86.76	5.70
2.583E+00	- 2.750E+00	34	177	19.21	100.00	38.60	0.55
G		0	177	0.00	100.00	0.12	0.12
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

1.467E+02 X
 2.153E+02 XXXXXXXXXXXXXXXXXXXX
 3.160E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.638E+02 XXXXXXXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+02
 MAXIMUM ANTILOG = 5.00000E+02
 GEOMETRIC MEAN = 3.05636E+02
 GEOMETRIC DEVIATION = 1.33534E+00
 VARIANCE OF LOGS = 1.57735E-02

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

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.04	0.04
1.250E+00	- 1.417E+00	1	1	0.56	0.56	2.46	0.87
1.417E+00	- 1.583E+00	31	32	17.51	18.08	32.69	0.09
1.583E+00	- 1.750E+00	113	145	63.84	81.92	87.33	7.54
1.750E+00	- 1.917E+00	29	174	16.38	98.31	48.78	8.02
1.917E+00	- 2.083E+00	2	176	1.13	99.44	5.57	2.28
2.083E+00	- 2.250E+00	1	177	0.56	100.00	0.12	6.30
G		0	177	0.00	100.00	0.04	0.04
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

2.154E+01 X
 3.162E+01 XXXXXXXXXXXXXXXXXXXX
 4.642E+01 XXX
 6.813E+01 XXXXXXXXXXXXXXXXXX
 1.000E+02 X
 1.468E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 1.50000E+02
 GEOMETRIC MEAN = 4.87423E+01
 GEOMETRIC DEVIATION = 1.32934E+00
 VARIANCE OF LOGS = 1.52861E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.832185E+00	6.794931E+01
95.00	1.883047E+00	7.639189E+01
98.00	1.913565E+00	8.195294E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
9.160E-01	- 1.083E+00	1	1	0.56	0.56	1.23	0.04
1.083E+00	- 1.249E+00	26	27	14.69	15.25	43.13	6.81
1.249E+00	- 1.416E+00	120	147	67.80	83.05	109.14	1.08
1.416E+00	- 1.583E+00	29	176	16.38	99.44	23.16	1.47
1.583E+00	- 1.749E+00	1	177	0.56	100.00	0.33	1.36
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

```

9.985E+00 X
1.466E+01 XXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXX
4.634E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 5.00000E+01
 GEOMETRIC MEAN = 2.05152E+01
 GEOMETRIC DEVIATION = 1.23969E+00
 VARIANCE OF LOGS = 8.70761E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.486691E+00	3.066838E+01
95.00	1.537553E+00	3.447887E+01
98.00	1.563070E+00	3.696880E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 32 (S-ZR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.00	0.00
1.750E+00 - 1.917E+00	1	1	0.56	0.56	0.93	0.01
1.917E+00 - 2.083E+00	21	22	11.86	12.43	24.47	0.49
2.083E+00 - 2.250E+00	96	118	54.24	66.67	92.43	0.14
2.250E+00 - 2.417E+00	53	171	29.94	96.61	54.32	0.03
2.417E+00 - 2.583E+00	5	176	2.82	99.44	4.79	0.01
2.583E+00 - 2.750E+00	1	177	0.56	100.00	0.06	15.68
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
3	0	177				

TOTALS LESS H AND B 177

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

6.813E+01 X
 1.000E+02 XXXXXXXXXXXXXXX
 1.468E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 2.154E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.162E+02 XXX
 4.642E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+01
 MAXIMUM ANTILOG = 5.00000E+02
 GEOMETRIC MEAN = 1.59293E+02
 GEOMETRIC DEVIATION = 1.29317E+00
 VARIANCE OF LOGS = 1.24667E-02

PERCENT TABLE FOR VARIABLE 32 (S-ZP) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.379875E+00	2.398145E+02
95.00	2.407706E+00	2.556853E+02
98.00	2.498668E+00	3.152595E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

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

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		5	5	2.82	2.82		
L		19	24	10.73	13.56		
T		0	24	0.00	13.56	7.25	7.25
5.830E-01	- 7.497E-01	43	67	24.29	37.85	26.72	9.91
7.497E-01	- 9.163E-01	0	67	0.00	37.85	54.41	54.41
9.163E-01	- 1.083E+00	88	155	49.72	87.57	54.48	20.62
1.083E+00	- 1.250E+00	14	169	7.91	95.48	26.84	6.14
1.250E+00	- 1.416E+00	7	176	3.95	99.44	6.49	0.04
1.416E+00	- 1.583E+00	0	176	0.00	99.44	0.77	0.77
1.583E+00	- 1.750E+00	1	177	0.56	100.00	0.05	20.12
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E+00
 9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.467E+01 XXXXXXXX
 2.153E+01 XXXX
 3.160E+01
 4.638E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 4.50000E+01
 GEOMETRIC MEAN = 8.92932E+00
 GEOMETRIC DEVIATION = 1.52626E+00
 VARIANCE OF LOGS = 3.39286E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.134192E+00	1.362045E+01
95.00	1.239549E+00	1.735997E+01
98.00	1.355859E+00	2.269126E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

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

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.03	0.03
1.250E+00	- 1.417E+00	2	2	1.13	1.13	1.53	0.15
1.417E+00	- 1.583E+00	16	18	9.34	10.17	21.40	1.36
1.583E+00	- 1.750E+00	84	102	47.46	57.63	73.93	1.37
1.750E+00	- 1.917E+00	63	165	35.59	93.22	64.90	0.06
1.917E+00	- 2.083E+00	10	175	5.65	98.87	14.43	1.36
2.083E+00	- 2.250E+00	1	176	0.56	99.44	0.78	0.06
2.250E+00	- 2.417E+00	1	177	0.56	100.00	0.01	
G		0	177	0.00	100.00	0.03	0.03
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

2.154E+01 X
 3.162E+01 XXXXXXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+02 XXXXX
 1.468E+02 X
 2.154E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOC = 2.50000E+01
 MAXIMUM ANTILOG = 2.50000E+02
 GEOMETRIC MEAN = 5.42134E+01
 GEOMETRIC DEVIATION = 1.36039E+00
 VARIANCE OF LOGS = 1.78661E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.901589E+00	7.972391E+01
95.00	1.969168E+00	9.314684E+01
98.00	2.057668E+00	1.142006E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

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

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	103	103	58.19	58.19		
L	35	138	19.77	77.97		
T	0	138	0.00	77.97	20.54	20.54
2.500E-01 - 4.167E-01	36	174	20.34	98.31	154.51	90.90
4.167E-01 - 5.833E-01	0	174	0.00	98.31	0.00	0.00
5.833E-01 - 7.500E-01	2	176	1.13	99.44	0.00	0.00
7.500E-01 - 9.167E-01	1	177	0.56	100.00	1.94	0.46
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+00 XXXXXXXXXXXXXXXXXXXX
 3.162E+00
 4.642E+00 X
 6.813E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
 MAXIMUM ANTILOG = 6.00000E+00
 GEOMETRIC MEAN = 2.13158E+00
 GEOMETRIC DEVIATION = 1.25855E+00
 VARIANCE OF LOGS = 9.97422E-03

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

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

Grapevine conc.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****
Nevada Data	-ds-2	177	33	1 0 0 0 2 1 0 0 0

THE MAX AND MIN 0.26990E+01 FOR VARIABLE NO. 9 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 10 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 15 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.24771E+01 FOR VARIABLE NO. 24 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.33010E+01 FOR VARIABLE NO. 31 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

TITLE INPUT ID N M ***** OPTIONS ****
Nevada data -ds-2 - 177 33 1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 26

SELECTED VARIABLE INDICES

3	4	5	6	7	8	11	12	13	14
16	17	18	19	20	21	22	23	25	26
27	28	29	30	32	33				

SELECTED VARIABLE IDENTIFIERS

S-FEX	S-MGX	S-CAX	S-TIX	S-MN	S-AG	S-B	S-BA	S-BE	S-BI
S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN
S-SR	S-V	S-W	S-Y	S-ZR	S-TH				

SELECTED ROW PAIRS

1 TO 177

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.91700	-1.25000	0.08300	-0.75000	2.08300	-0.08400	1.25000	1.91600	0.25000	1.25000
0.91600	1.25000	0.91600	1.58300	0.91600	1.58300	0.91600	1.25000	0.91600	1.25000
2.25000	1.25000	1.91600	1.41600	3.08300	2.25000				

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667				

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 3 (S-FEX)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.05	0.05
-9.170E-01	-7.503E-01	2	2	1.13	1.13	0.83	1.63
-7.503E-01	-5.837E-01	7	9	3.95	5.08	6.88	0.00
-5.837E-01	-4.170E-01	19	28	10.73	15.82	27.74	2.76
-4.170E-01	-2.503E-01	72	100	40.68	56.50	55.01	5.25
-2.503E-01	-8.367E-02	53	153	29.94	86.44	53.75	0.01
-8.367E-02	8.300E-02	20	173	11.30	97.74	25.87	1.33
8.300E-02	2.497E-01	1	174	0.56	98.31	6.12	4.28
2.497E-01	4.163E-01	3	177	1.69	100.00	0.75	6.76
G		0	177	0.00	100.00	0.05	0.05
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

1.467E-01 X
 2.153E-01 XXXX
 3.160E-01 XXXXXXXXXXXX
 4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXX
 1.467E+00 X
 2.153E+00 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E-01
 MAXIMUM ANTILOG = 2.00000E+00
 GEOMETRIC MEAN = 5.54856E-01
 GEOMETRIC DEVIATION = 1.55595E+00
 VARIANCE OF LOGS = 3.68626E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-3.116490E-02	9.307544E-01
95.00	4.258524E-02	1.103025E+00
98.00	1.596687E-01	1.444338E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.15	0.15
-1.250E+00	-1.083E+00	2	2	1.13	1.13	0.75	2.06
-1.083E+00	-9.167E-01	4	6	2.26	3.39	3.19	0.20
-9.167E-01	-7.500E-01	10	16	5.65	9.04	9.78	0.00
-7.500E-01	-5.833E-01	22	38	12.43	21.47	21.65	0.01
-5.833E-01	-4.167E-01	19	57	10.73	32.20	34.67	7.08
-4.167E-01	-2.500E-01	40	97	22.60	54.80	40.16	0.00
-2.500E-01	-8.333E-02	64	161	36.16	90.96	33.66	27.34
-8.333E-02	8.334E-02	12	173	6.78	97.74	20.41	3.47
8.334E-02	2.500E-01	1	174	0.56	98.31	8.95	7.07
2.500E-01	4.167E-01	2	176	1.13	99.44	2.84	0.25
4.167E-01	5.833E-01	0	176	0.00	99.44	0.65	0.65
5.833E-01	7.500E-01	1	177	0.56	100.00	0.12	6.32
G		0	177	0.00	100.00	0.15	0.15
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

6.813E-02 X
 1.000E-01 XX
 1.468E-01 XXXXXX
 2.154E-01 XXXXXXXXXXXX
 3.162E-01 XXXXXXXXXX
 4.642E-01 XXXXXXXXXXXXXXXXXXXX
 6.813E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+00 XXXXXXXX
 1.468E+00 X
 2.154E+00 X
 3.162E+00 X
 4.642E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-02
 MAXIMUM ANTILOG = 5.00000E+00
 GEOMETRIC MEAN = 4.56145E-01
 GEOMETRIC DEVIATION = 1.94497E+00
 VARIANCE OF LOGS = 8.34701E-02

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-8.775810E-02	8.170373E-01
95.00	1.597475E-02	1.037468E+00
98.00	1.600027E-01	1.445449E+00

Nevada data

FREQUENCY TABLE FOR VARIABLE 5 (S-CAX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	$(\text{THEOR FREQ} - \text{OBS FREQ})^{**2}/\text{THEOR FREQ}$
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.43	0.43
8.300E-02 - 2.497E-01	4	4	2.26	2.26	2.36	1.13
2.497E-01 - 4.163E-01	6	10	3.39	5.65	9.40	1.23
4.163E-01 - 5.830E-01	25	35	14.12	19.77	24.36	0.02
5.830E-01 - 7.497E-01	51	86	28.81	48.59	41.19	2.34
7.497E-01 - 9.163E-01	38	124	21.47	70.06	45.43	1.22
9.163E-01 - 1.083E+00	33	157	18.64	88.70	32.70	0.00
1.083E+00 - 1.250E+00	14	171	7.91	96.61	15.35	0.12
1.250E+00 - 1.416E+00	6	177	3.39	100.00	5.77	0.01
G	0	177	0.00	100.00	0.43	0.43
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

1.467E+00 XX
 2.153E+00 XXX
 3.160E+00 XXXXXXXXXXXXXXXX
 4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXX
 6.808E+00 XXXXXXXXXXXXXXXXXXXXXXX
 9.992E+00 XXXXXXXXXXXXXXXXXXXXXXX
 1.467E+01 XXXXXXXXX
 2.153E+01 XXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+00
 MAXIMUM ANTILOG = 2.00000E+01
 GEOMETRIC MEAN = 6.13724E+00
 GEOMETRIC DEVIATION = 1.77994E+00
 VARIANCE OF LOGS = 6.27033E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.110383E+00	1.289386E+01
95.00	1.215740E+00	1.643389E+01
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 6 (S-TIX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.00	0.00
-7.500E-01 - -5.833E-01	1	1	0.56	0.56	0.00	0.00
-5.833E-01 - -4.167E-01	3	4	1.69	2.26	0.01	751.46
-4.167E-01 - -2.500E-01	0	4	0.00	2.26	0.40	0.40
-2.500E-01 - -8.333E-02	8	12	4.52	6.78	5.37	1.28
-8.333E-02 - 8.333E-02	10	22	5.65	12.43	28.96	12.41
8.333E-02 - 2.500E-01	23	45	12.99	25.42	63.12	25.50
2.500E-01 - 4.167E-01	54	99	30.51	55.93	79.14	7.98
G	73	177	44.07	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E-01 X
 3.162E-01 XX
 4.642E-01
 6.813E-01 XXXXX
 1.000E+00 XXXXXX
 1.468E+00 XXXXXXXXXXXXXXXX
 2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-01
 MAXIMUM ANTILOG = 2.00000E+00
 GEOMETRIC MEAN = 1.47804E+00
 GEOMETRIC DEVIATION = 1.61590E+00
 VARIANCE OF LOGS = 4.34368E-02

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

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.50	0.50
2.083E+00	- 2.250E+00	4	4	2.26	2.26	6.05	0.69
2.250E+00	- 2.416E+00	20	24	11.30	13.56	30.75	3.76
2.416E+00	- 2.583E+00	84	108	47.46	61.02	63.78	6.41
2.583E+00	- 2.750E+00	51	159	28.81	89.83	54.22	0.19
2.750E+00	- 2.916E+00	17	176	9.60	99.44	18.87	0.19
2.916E+00	- 3.083E+00	1	177	0.56	100.00	2.83	1.18
G		0	177	0.00	100.00	0.50	0.50
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

```

1.467E+02 XX
2.153E+02 XXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.803E+02 XXXXXXXXXX
9.992E+02 X

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THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+02
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 3.56977E+02
 GEOMETRIC DEVIATION = 1.47754E+00
 VARIANCE OF LOGS = 2.87438E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.752609E+00	5.657300E+02
95.00	2.839374E+00	6.908346E+02
98.00	2.891433E+00	7.788127E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 8 (S-AG)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		159	159	89.83	89.83		
L		1	160	0.56	90.40		
T		0	160	0.00	90.40		
-8.400E-02	-8.267E-02	2	162	1.13	91.53	54.77	54.77
8.267E-02	2.493E-01	0	162	0.00	91.53	30.34	26.48
2.493E-01	4.160E-01	1	163	0.56	92.09	25.96	23.99
4.160E-01	5.827E-01	2	165	1.13	93.22	17.82	14.04
5.827E-01	7.493E-01	2	167	1.13	94.35	10.03	6.43
7.493E-01	9.160E-01	2	169	1.13	95.48	4.63	1.49
9.160E-01	1.083E+00	0	169	0.00	95.48	1.75	1.75
1.083E+00	1.249E+00	1	170	0.56	96.05	0.54	0.39
1.249E+00	1.416E+00	0	170	0.00	96.05	0.14	0.14
1.416E+00	1.583E+00	1	171	0.56	96.61	0.03	32.87
1.583E+00	1.749E+00	3	174	1.69	98.31	0.00	0.00
1.749E+00	1.916E+00	2	176	1.13	99.44	0.00	0.00
1.916E+00	2.083E+00	1	177	0.56	100.00	0.01	174.31
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

HISTOGRAM FOR VARIABLE 8 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E-01 X
 1.466E+00
 2.151E+00 X
 3.157E+00 X
 4.634E+00 X
 6.802E+00 X
 9.985E+00
 1.466E+01 X
 2.151E+01
 3.157E+01 X
 4.635E+01 XX
 6.803E+01 X
 9.985E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
 MAXIMUM ANTILOG = 1.00000E+02
 GEOMETRIC MEAN = 1.11199E+01
 GEOMETRIC DEVIATION = 4.77758E+00
 VARIANCE OF LOGS = 4.61323E-01

PERCENT TABLE FOR VARIABLE 8 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	8.451685E-01	7.001137E+00
98.00	1.719337E+00	5.240068E+01

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	84	84	47.46	47.46		
L	69	153	38.98	86.44		
T	0	153	0.00	86.44	21.77	21.77
1.250E+00 - 1.417E+00	15	168	8.47	94.92	150.53	122.02
1.417E+00 - 1.583E+00	7	175	3.95	98.87	0.00	0.00
1.583E+00 - 1.750E+00	2	177	1.13	100.00	4.70	1.55
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XXXXXXXX
 3.162E+01 XXXX
 4.642E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 5.00000E+01
 GEOMETRIC MEAN = 2.42969E+01
 GEOMETRIC DEVIATION = 1.33509E+00
 VARIANCE OF LOGS = 1.57529E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.4210238E+00	2.631712E+01
98.00	1.546667E+00	3.521010E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.916E+00 - 2.083E+00	5	5	2.82	2.82	6.82	6.82
2.083E+00 - 2.249E+00	11	16	6.21	9.04	7.82	1.02
2.249E+00 - 2.416E+00	24	40	13.56	22.60	13.17	0.36
2.416E+00 - 2.583E+00	44	84	24.86	47.46	19.23	1.18
2.583E+00 - 2.749E+00	40	124	22.60	70.06	24.34	15.89
2.749E+00 - 2.916E+00	18	142	10.17	80.23	26.68	6.64
2.916E+00 - 3.083E+00	12	154	6.78	87.01	25.35	2.13
3.083E+00 - 3.249E+00	3	157	1.59	88.70	20.88	3.77
3.249E+00 - 3.416E+00	6	163	3.39	92.09	14.89	9.50
3.416E+00 - 3.583E+00	2	165	1.13	93.22	9.21	1.12
3.583E+00 - 3.749E+00	4	169	2.26	95.48	4.93	1.74
3.749E+00 - 3.916E+00	2	171	1.13	96.61	2.29	1.28
3.916E+00 - 4.083E+00	2	173	1.13	97.74	0.92	1.26
G	4	177	2.26	100.00	0.45	5.33
H	0	177			6.82	1.17
B	0	177				

TOTALS LESS H AND B 177

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

9.985E+01 XXX
 1.466E+02 XXXXXX
 2.151E+02 XXXXXXXXXXXXXXXX
 3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXX
 4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXX
 6.802E+02 XXXXXXXXXX
 9.985E+02 XXXXXX
 1.466E+03 XX
 2.151E+03 XXX
 3.157E+03 X
 4.634E+03 XX
 6.803E+03 X
 9.985E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
 MAXIMUM ANTILOG = 1.00000E+04
 GEOMETRIC MEAN = 4.56604E+02
 GEOMETRIC DEVIATION = 2.47743E+00
 VARIANCE OF LOGS = 1.55237E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.313225E+00	2.056956E+03
95.00	3.713920E+00	5.175118E+03
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 13 (S-BE)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	137	137	77.40	77.40		
L	26	163	14.69	92.09		
T	0	163	0.00	92.09	49.63	49.63
2.500E-01 - 4.167E-01	9	172	5.08	97.18	93.28	76.15
4.167E-01 - 5.833E-01	2	174	1.13	98.31	32.28	28.40
5.833E-01 - 7.500E-01	1	175	0.56	98.87	1.79	0.35
7.500E-01 - 9.167E-01	0	175	0.00	98.87	0.00	0.00
9.167E-01 - 1.083E+00	0	175	0.00	98.87	0.00	0.00
1.083E+00 - 1.250E+00	1	176	0.56	99.44	0.00	0.00
1.250E+00 - 1.417E+00	0	176	0.00	99.44	0.00	0.00
1.417E+00 - 1.583E+00	1	177	0.56	100.00	0.01	66.83
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+00 XXXXX
 3.162E+00 X
 4.642E+00 X
 6.813E+00
 1.000E+01
 1.468E+01 X
 2.154E+01
 3.162E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
 MAXIMUM ANTILOG = 3.00000E+01
 GEOMETRIC MEAN = 3.17045E+00
 GEOMETRIC DEVIATION = 2.36054E+00
 VARIANCE OF LOGS = 1.39137E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	5.383339E-01	3.454092E+00

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 14 (S-BI)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	168	168	94.92	94.92		
L	0	168	0.00	94.92		
T	0	168	0.00	94.92	51.74	51.74
1.250E+00 - 1.417E+00	1	169	0.56	95.48	76.34	74.36
1.417E+00 - 1.583E+00	1	170	0.56	96.05	41.58	39.61
1.583E+00 - 1.750E+00	1	171	0.56	96.61	6.98	5.12
1.750E+00 - 1.917E+00	2	173	1.13	97.74	0.35	7.68
1.917E+00 - 2.083E+00	2	175	1.13	98.87	0.00	0.00
2.083E+00 - 2.250E+00	1	176	0.56	99.44	0.00	0.00
2.250E+00 - 2.417E+00	0	176	0.00	99.44	0.00	0.00
2.417E+00 - 2.583E+00	1	177	0.56	100.00	0.01	187.53
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS 4 AND 8 177

HISTOGRAM FOR VARIABLE 14 (S-BI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01 X
 3.162E+01 X
 4.642E+01 X
 6.813E+01 X
 1.000E+02 X
 1.463E+02 X
 2.154E+02
 3.162E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 3.00000E+02
 GEOMETRIC MEAN = 7.39516E+01
 GEOMETRIC DEVIATION = 2.26139E+00
 VARIANCE OF LOGS = 1.25581E-01

PERCENT TABLE FOR VARIABLE 14 (S-BI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.955001E+00	9.015740E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		69	69	38.98	38.98		
L		64	133	36.16	75.14		
T		0	133	0.00	75.14	6.14	6.14
9.160E-01	- 1.083E+00	29	162	16.38	91.53	150.52	98.11
1.083E+00	- 1.249E+00	13	175	7.34	98.87	20.34	2.65
1.249E+00	- 1.416E+00	2	177	1.13	100.00	0.00	1826.52
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

9.985E+00 XXXXXXXXXXXXXXXXX
 1.466E+01 XXXXXXX
 2.151E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 2.00000E+01
 GEOMETRIC MEAN = 1.16335E+01
 GEOMETRIC DEVIATION = 1.24671E+00
 VARIANCE OF LOGS = 9.17117E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.161513E+00	1.450485E+01
98.00	1.229590E+00	1.696643E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	4	4	2.26	2.26		
L	21	25	11.86	14.12		
T	0	25	0.00	14.12	16.72	16.72
1.250E+00 - 1.417E+00	40	65	22.60	36.72	37.13	0.22
1.417E+00 - 1.583E+00	41	106	23.16	59.89	54.80	3.48
1.583E+00 - 1.750E+00	48	154	27.12	87.01	43.99	0.37
1.750E+00 - 1.917E+00	21	175	11.86	98.87	19.19	0.17
1.917E+00 - 2.083E+00	1	176	0.56	99.44	4.55	2.77
2.083E+00 - 2.250E+00	1	177	0.56	100.00	0.62	0.23
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXX
 1.000E+02 X
 1.468E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 1.50000E+02
 GEOMETRIC MEAN = 3.62341E+01
 GEOMETRIC DEVIATION = 1.59280E+00
 VARIANCE OF LOGS = 4.08697E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
20.00	1.792065E+00	6.195332E+01
95.00	1.862303E+00	7.282874E+01
98.00	1.904446E+00	8.025013E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 13 (S-CU)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	106	106	59.89	59.89		
L	39	145	22.03	81.92		
T	0	145	0.00	81.92	51.40	51.40
9.160E-01 - 1.083E+00	14	159	7.91	89.83	40.49	17.33
1.083E+00 - 1.249E+00	7	166	3.95	93.79	39.37	26.62
1.249E+00 - 1.416E+00	3	169	1.69	95.48	26.99	21.32
1.416E+00 - 1.583E+00	0	169	0.00	95.48	13.04	13.04
1.583E+00 - 1.749E+00	1	170	0.56	96.05	4.44	2.66
1.749E+00 - 1.916E+00	0	170	0.00	96.05	1.06	1.06
1.916E+00 - 2.083E+00	2	172	1.13	97.18	0.18	18.45
2.083E+00 - 2.249E+00	1	173	0.56	97.74	0.00	0.00
2.249E+00 - 2.416E+00	1	174	0.56	98.31	0.00	0.00
2.416E+00 - 2.583E+00	2	176	1.13	99.44	0.00	0.00
2.583E+00 - 2.749E+00	0	176	0.00	99.44	0.00	0.00
2.749E+00 - 2.916E+00	0	176	0.00	99.44	0.00	0.00
2.916E+00 - 3.083E+00	1	177	0.56	100.00	0.02	41.08
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

9.985E+00 XXXXXXXX
 1.466E+01 XXXX
 2.151E+01 XX
 3.157E+01
 4.634E+01 X
 6.802E+01
 9.985E+01 X
 1.466E+02 X
 2.151E+02 X
 3.157E+02 X
 4.635E+02
 6.803E+02
 9.985E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 2.41721E+01
 GEOMETRIC DEVIATION = 3.62928E+00
 VARIANCE OF LOGS = 3.13399E-01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 19 (S-LA)

LOG LIMITS LOWER ~ UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.04	0.04
1.583E+00 ~ 1.750E+00	1	1	0.56	0.56	0.28	1.80
1.750E+00 ~ 1.916E+00	1	2	0.56	1.13	1.61	0.23
1.916E+00 ~ 2.083E+00	6	8	3.39	4.52	6.34	0.02
2.083E+00 ~ 2.250E+00	12	20	6.78	11.30	17.23	1.59
2.250E+00 ~ 2.416E+00	33	53	18.64	29.94	32.46	0.01
2.416E+00 ~ 2.583E+00	46	99	25.99	55.93	42.36	0.31
2.583E+00 ~ 2.750E+00	47	146	26.55	82.49	38.32	1.97
2.750E+00 ~ 2.916E+00	20	166	11.30	93.79	24.02	0.67
2.916E+00 ~ 3.083E+00	7	173	3.95	97.74	10.43	1.13
3.083E+00 ~ 3.250E+00	3	176	1.69	99.44	3.14	0.01
3.250E+00 ~ 3.416E+00	1	177	0.56	100.00	0.76	0.08
G	0	177	0.00	100.00	0.04	0.04
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

4.638E+01 X
 6.808E+01 X
 9.992E+01 XXX
 1.467E+02 XXXXXX
 2.153E+02 XXXXXXXXXXXXXXXXXXXX
 3.160E+02 XXXXXXXXXXXXXXXXXXXXXXX
 4.638E+02 XXXXXXXXXXXXXXXXXXXXXXX
 6.808E+02 XXXXXXXXXX
 9.992E+02 XXXX
 1.467E+03 XX
 2.153E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
 MAXIMUM ANTILOG = 2.00000E+03
 GEOMETRIC MEAN = 3.44675E+02
 GEOMETRIC DEVIATION = 1.86604E+00
 VARIANCE OF LOGS = 7.33980E-02

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

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.089810E+00	1.229730E+01
95.00	1.368779E+00	2.337646E+01
98.00	2.326003E+00	2.118374E+02

SELECTED
PERCENTILE

	DATA VALUE	ANTI LOG OF VALUE
90.00	2.860503E+00	7.252748E+02
95.00	2.967527E+00	9.279543E+02
98.00	3.108559E+00	1.283981E+03

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 20 (S-MO)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		135	135	76.27	76.27		
L		14	149	7.91	84.18		
T		0	149	0.00	84.18	50.03	50.03
9.160E-01	- 1.083E+00	12	161	6.78	90.96	42.03	21.46
1.083E+00	- 1.249E+00	3	164	1.69	92.66	40.77	34.99
1.249E+00	- 1.416E+00	3	167	1.69	94.35	27.08	21.41
1.416E+00	- 1.583E+00	1	168	0.56	94.92	12.31	10.39
1.583E+00	- 1.749E+00	1	169	0.56	95.48	3.83	2.09
1.749E+00	- 1.916E+00	2	171	1.13	96.61	0.82	1.72
1.916E+00	- 2.083E+00	1	172	0.56	97.18	0.12	6.54
2.083E+00	- 2.249E+00	1	173	0.56	97.74	0.00	0.00
2.249E+00	- 2.416E+00	2	175	1.13	98.87	0.00	0.00
2.416E+00	- 2.583E+00	1	176	0.56	99.44	0.00	0.00
2.583E+00	- 2.749E+00	1	177	0.56	100.00	0.01	77.04
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
R		0	177				

TOTALS LESS H AND R 177

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

9.985E+00 XXXXXXXX
 1.466E+01 XX
 2.151E+01 XX
 3.157E+01 X
 4.634E+01 X
 6.802E+01 X
 9.985E+01 X
 1.466E+02 X
 2.151E+02 X
 3.157E+02 X
 4.635E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 5.00000E+02
 GEOMETRIC MEAN = 2.73885E+01
 GEOMETRIC DEVIATION = 3.49811E+00
 VARIANCE OF LOGS = 2.95754E-01

PERCENT TABLE FOR VARIABLE 20 (S-MO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED
PERCENTILE

	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.607668E+00	4.051986E+01
98.00	2.287669E+00	1.939409E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 21 (S-NB)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		11	11	6.21	6.21		
L		49	60	27.68	33.90		
T		0	60	0.00	33.90		
1.583E+00 - 1.750E+00	1.750E+00	59	119	33.33	67.23	11.48	11.48
1.750E+00 - 1.916E+00	1.916E+00	31	150	17.51	84.75	79.03	29.19
1.916E+00 - 2.083E+00	2.083E+00	21	171	11.86	96.61	22.73	0.13
2.083E+00 - 2.250E+00	2.250E+00	6	177	3.39	100.00	1.45	14.35
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E+01 XXXXXXXXXXXXXXXXXXXXXXX
 9.992E+01 XXXXXXXXXX
 1.467E+02 XXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
 MAXIMUM ANTILOG = 1.50000E+02
 GEOMETRIC MEAN = 6.54918E+01
 GEOMETRIC DEVIATION = 1.38522E+00
 VARIANCE OF LOGS = 2.00276E-02

PERCENT TABLE FOR VARIABLE 21 (S-NB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.990144E+00	9.775606E+01
95.00	2.060382E+00	1.149164E+02
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 22 (S-NI)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	92	92	51.98	51.98		
L	50	142	28.25	80.23		
T	0	142	0.00	80.23	4.03	4.03
9.160E-01 - 1.083E+00	28	170	15.82	96.05	162.89	111.71
1.083E+00 - 1.249E+00	4	174	2.26	98.31	0.00	0.00
1.249E+00 - 1.416E+00	3	177	1.69	100.00	10.08	4.97
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

9.985E+00 XXXXXXXXXXXXXXXXX
 1.466E+01 XX
 2.151E+01 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 2.00000E+01
 GEOMETRIC MEAN = 1.11155E+01
 GEOMETRIC DEVIATION = 1.25120E+00
 VARIANCE OF LOGS = 9.47248E-03

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.226834E+00	1.685908E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER - N	LOG LIMITS UPPER L	OBS FREQ 40	CUM FREQ 51	PERCENT FREQ 22.60	PERCENT CUM FREQ 28.81	THEOR FREQ (NORMAL DIST) 31.70	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ 31.70
1.250E+00 - 1.417E+00	1.417E+00 - 1.583E+00	41	92	23.16	51.98	14.46	45.09
1.583E+00 - 1.750E+00	1.750E+00 - 1.917E+00	16	108	9.04	61.02	19.08	0.50
1.750E+00 - 1.917E+00	1.917E+00 - 2.083E+00	18	126	10.17	71.19	19.54	0.12
1.917E+00 - 2.083E+00	2.083E+00 - 2.250E+00	8	134	4.52	75.71	18.52	5.98
2.083E+00 - 2.250E+00	2.250E+00 - 2.417E+00	4	138	2.26	77.97	16.26	9.25
2.250E+00 - 2.417E+00	2.417E+00 - 2.583E+00	13	151	7.34	85.31	13.22	0.00
2.417E+00 - 2.583E+00	2.583E+00 - 2.750E+00	9	160	5.08	90.40	9.96	0.09
2.583E+00 - 2.750E+00	2.750E+00 - 2.917E+00	5	165	2.82	93.22	6.95	0.54
2.750E+00 - 2.917E+00	2.917E+00 - 3.083E+00	2	167	1.13	94.35	4.49	1.38
2.917E+00 - 3.083E+00	3.083E+00 - 3.250E+00	1	168	0.56	94.92	2.68	1.06
3.083E+00 - 3.250E+00	3.250E+00 - 3.417E+00	2	170	1.13	96.05	1.49	0.18
3.250E+00 - 3.417E+00	3.417E+00 - 3.583E+00	1	171	0.56	96.61	0.76	0.07
3.417E+00 - 3.583E+00	3.583E+00 - 3.750E+00	2	173	1.13	97.74	0.36	7.40
3.583E+00 - 3.750E+00	3.750E+00 - 3.917E+00	2	175	1.13	98.87	0.16	21.25
3.750E+00 - 3.917E+00	3.917E+00 - 4.083E+00	0	175	0.00	98.87	0.06	0.06
3.917E+00 - 4.083E+00	4.083E+00 - 4.250E+00	0	175	0.00	98.87	0.02	0.02
4.083E+00 - 4.250E+00	G	2	177	1.13	100.00	0.01	316.41
G	H	0	177	0.00	100.00	0.00	0.00
H	B	0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
 3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
 4.642E+01 XXXXXXXXXX
 6.813E+01 XXXXXXXXXX
 1.000E+02 XXXXX
 1.468E+02 XX
 2.154E+02 XXXXXXXX
 3.162E+02 XXXXX
 4.642E+02 XXX
 6.813E+02 X
 1.000E+03 X
 1.463E+03 X
 2.154E+03 X
 3.162E+03 X
 4.642E+03 X
 6.813E+03
 1.000E+04
 1.468E+04 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.50000E+04
GEOMETRIC MEAN = 6.82423E+01
GEOMETRIC DEVIATION = 4.02517E+00
VARIANCE OF LOGS = 3.65764E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.570373E+00	3.718545E+02
95.00	3.095837E+00	1.246915E+03
98.00	3.621671E+00	4.184768E+03

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		5	5	2.82	2.82		
T		0	5	0.00	2.82	0.21	0.21
1.250E+00	- 1.417E+00	4	9	2.26	5.08	2.73	0.59
1.417E+00	- 1.583E+00	8	17	4.52	9.60	16.70	4.53
1.583E+00	- 1.750E+00	39	56	22.03	31.64	47.05	1.38
1.750E+00	- 1.917E+00	84	140	47.46	79.10	61.38	8.34
1.917E+00	- 2.083E+00	32	172	18.08	97.18	37.12	0.71
2.083E+00	- 2.250E+00	4	176	2.26	99.44	10.39	3.93
2.250E+00	- 2.417E+00	3	176	0.00	99.44	1.34	1.34
2.417E+00	- 2.583E+00	1	177	0.56	100.00	0.08	10.44
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XX
 3.162E+01 XXXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+02 XXXXXXXXXXXXXXXXXX
 1.468E+02 XX
 2.154E+02
 3.162E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 3.00000E+02
 GEOMETRIC MEAN = 6.64336E+01
 GEOMETRIC DEVIATION = 1.45987E+00
 VARIANCE OF LOGS = 2.69991E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.017189E+00	1.040373E+02
95.00	2.063283E+00	1.156866E+02
98.00	2.144168E+00	1.397697E+02

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	55	55	31.07	31.07		
L	40	95	22.60	53.67		
T	0	95	0.00	53.67	33.66	33.66
2.250E+00 - 2.417E+00	25	120	14.12	67.80	58.65	19.31
2.417E+00 - 2.583E+00	27	147	15.25	83.05	55.97	14.99
2.583E+00 - 2.750E+00	18	165	10.17	93.22	23.82	1.42
2.750E+00 - 2.917E+00	10	175	5.65	98.87	4.50	6.70
2.917E+00 - 3.083E+00	2	177	1.13	100.00	0.39	6.65
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+02 XXXXXXXXXXXXXXXX
 3.162E+02 XXXXXXXXXXXXXXXX
 4.642E+02 XXXXXXXXXX
 6.813E+02 XXXXXX
 1.000E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 3.38658E+02
 GEOMETRIC DEVIATION = 1.59553E+00
 VARIANCE OF LOGS = 4.11699E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.697223E+00	4.979929E+02
95.00	2.802501E+00	5.346015E+02
98.00	2.891001E+00	7.780388E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 29 (S-W)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		153	153	86.44	86.44		
L		8	161	4.52	90.96		
T		0	161	0.00	90.96	31.60	31.60
1.916E+00	- 2.083E+00	6	167	3.39	94.35	88.51	76.92
2.083E+00	- 2.249E+00	1	168	0.56	94.92	51.18	49.20
2.249E+00	- 2.416E+00	3	171	1.69	96.61	5.60	1.21
2.416E+00	- 2.583E+00	3	174	1.69	98.31	0.00	0.00
2.583E+00	- 2.749E+00	2	176	1.13	99.44	0.00	0.00
2.749E+00	- 2.916E+00	1	177	0.56	100.00	0.11	7.34
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

HISTOGRAM FOR VARIABLE 29 (S-W)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E+01 XXX
 1.466E+02 X
 2.151E+02 XX
 3.157E+02 XX
 4.634E+02 X
 6.802E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
 MAXIMUM ANTILOG = 7.00000E+02
 GEOMETRIC MEAN = 1.98198E+02
 GEOMETRIC DEVIATION = 1.95156E+00
 VARIANCE OF LOGS = 8.43216E-02

PERCENT TABLE FOR VARIABLE 29 (S-W) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	2.257667E+00	1.809953E+02
98.00	2.552668E+00	3.569998E+02

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 30 (S-Y)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00	- 1.583E+00	2	2	1.13	1.13	0.02	0.02
1.583E+00	- 1.749E+00	1	3	0.56	1.69	0.13	25.99
1.749E+00	- 1.916E+00	4	7	2.26	3.95	0.75	0.09
1.916E+00	- 2.083E+00	9	16	5.08	9.04	3.06	0.29
2.083E+00	- 2.249E+00	13	29	7.34	16.38	9.21	0.00
2.249E+00	- 2.416E+00	20	49	11.30	27.68	20.33	2.64
2.416E+00	- 2.583E+00	48	97	27.12	54.80	32.94	5.09
2.583E+00	- 2.749E+00	55	152	31.07	85.88	39.21	1.97
2.749E+00	- 2.916E+00	19	171	10.73	96.61	34.27	12.53
2.916E+00	- 3.083E+00	3	174	1.69	98.31	22.00	0.41
3.083E+00	- 3.249E+00	3	177	1.69	100.00	10.37	5.24
G		0	177	0.00	100.00	4.70	0.61
H		0	177			0.02	0.02
B		0	177				

TOTALS LESS H AND B 177

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

3.157E+01 X
 4.634E+01 X
 6.802E+01 XX
 9.935E+01 XXXXX
 1.466E+02 XXXXXXXX
 2.151E+02 XXXXXXXXXXXX
 3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXX
 4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.803E+02 XXXXXXXXXXXX
 9.985E+02 XX
 1.466E+03 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
 MAXIMUM ANTILOG = 1.50000E+03
 GEOMETRIC MEAN = 3.23609E+02
 GEOMETRIC DEVIATION = 1.97715E+00
 VARIANCE OF LOGS = 8.76391E-02

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	5	5	2.82	2.82		
T	0	5	0.00	2.82	0.21	0.21
1.250E+00 - 1.417E+00	4	9	2.26	5.08	2.73	0.59
1.417E+00 - 1.583E+00	8	17	4.52	9.60	16.70	4.53
1.583E+00 - 1.750E+00	39	56	22.03	31.64	47.05	1.38
1.750E+00 - 1.917E+00	84	140	47.46	79.10	61.38	8.34
1.917E+00 - 2.083E+00	32	172	18.08	97.18	37.12	0.71
2.083E+00 - 2.250E+00	4	176	2.26	99.44	10.39	3.93
2.250E+00 - 2.417E+00	0	176	0.00	99.44	1.34	1.34
2.417E+00 - 2.583E+00	1	177	0.56	100.00	0.08	10.44
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS H AND B 177

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

2.154E+01 XX
 3.162E+01 XXXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+02 XXXXXXXXXXXXXXXXXXXXXXXX
 1.463E+02 XX
 2.154E+02 X
 3.162E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 3.00000E+02
 GEOMETRIC MEAN = 6.64336E+01
 GEOMETRIC DEVIATION = 1.45987E+00
 VARIANCE OF LOGS = 2.69991E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.017189E+00	1.040373E+02
95.00	2.063283E+00	1.156866E+02
98.00	2.144168E+00	1.393697E+02

SELECTED
PERCENTILE

	DATA VALUE	ANTI LOG OF VALUE
90.00	2.813371E+00	6.506856E+02
95.00	2.891003E+00	7.780418E+02
98.00	3.052670E+00	1.128938E+03

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 32 (S-ZR)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
3.083E+00 - 3.250E+00	3.250E+00	1	1	0.56	0.56	0.00	0.00
3.250E+00 - 3.416E+00	3.416E+00	5	6	2.82	3.39	177.00	167.14
G		171	177	96.61	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

HISTOGRAM FOR VARIABLE 32 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS1.467E+03 X
2.153E+03 XXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+03
 MAXIMUM ANTILOG = 2.00000E+03
 GEOMETRIC MEAN = 1.90637E+03
 GEOMETRIC DEVIATION = 1.12462E+00
 VARIANCE OF LOGS = 2.60166E-03

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

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 33 (S-TH)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		69	69	38.98	38.98		
L		51	120	28.81	67.80		
T		0	120	0.00	67.80	48.36	48.36
2.250E+00	- 2.417E+00	17	137	9.60	77.40	30.99	6.31
2.417E+00	- 2.583E+00	8	145	4.52	81.92	32.91	18.86
2.583E+00	- 2.750E+00	3	148	1.69	83.62	28.07	22.39
2.750E+00	- 2.917E+00	7	155	3.95	87.57	19.21	7.76
2.917E+00	- 3.083E+00	5	160	2.82	90.40	10.56	2.93
3.083E+00	- 3.250E+00	4	164	2.26	92.66	4.66	0.09
3.250E+00	- 3.417E+00	7	171	3.95	96.61	1.65	17.37
3.417E+00	- 3.583E+00	1	172	0.56	97.18	0.47	0.60
3.583E+00	- 3.750E+00	5	177	2.82	100.00	0.13	183.03
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

HISTOGRAM FOR VARIABLE 33 (S-TH)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+02 XXXXXXXXXX
 3.162E+02 XXXXX
 4.642E+02 XX
 6.813E+02 XXXX
 1.000E+03 XXX
 1.468E+03 XX
 2.154E+03 XXXX
 3.162E+03 X
 4.642E+03 XXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
 MAXIMUM ANTILOG = 5.00000E+03
 GEOMETRIC MEAN = 6.34296E+02
 GEOMETRIC DEVIATION = 2.92061E+00
 VARIANCE OF LOGS = 2.16666E-01

PERCENT TABLE FOR VARIABLE 33 (S-TH) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.060002E+00	1.148158E+03

95.00

3.348812E+00

2.232604E+03

98.00

1.000000E+35

1.000000E+35

Grapewine rocks.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****
Nevada data	-ds-3	15	38	1 0 0 0 2 1 0 0 0 0

VARIABLE NO. 10 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.10000E+01 FOR VARIABLE NO. 14 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.13010E+01 FOR VARIABLE NO. 19 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 21 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.10000E+01 FOR VARIABLE NO. 25 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.23010E+01 FOR VARIABLE NO. 26 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.20000E+01 FOR VARIABLE NO. 29 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

THE MAX AND MIN 0.10000E+01 FOR VARIABLE NO. 30 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 33 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****
Nevada data	-ds-3	15	38	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 27

SELECTED VARIABLE INDICES

3 4 5 6 7 8 9 11 12 13
 15 16 17 18 20 22 23 24 27 28
 31 32 34 35 36 37 38

SELECTED VARIABLE IDENTIFIERS

S-FEZ S-MG% S-CA% S-TIX S-MN S-AG S-AS S-B S-BA S-BE
 S-CD S-CO S-CR S-CU S-MO S-NI S-PB S-SB S-SR S-V
 S-ZN S-ZR AA-AU-P INST-HG AA-AAS-P AA-7N-P AA-ASB-P

SELECTED ROW PAIRS
1 TO 15

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.58400 -1.75000 -1.41700 -2.75000 1.25000 -0.25000 2.25000 1.25000 1.41600 -0.08400
 1.25000 0.58300 0.91600 0.75000 0.58300 0.58300 1.08300 1.91600 1.91600 0.91600
 2.25000 0.91600 -1.41700 -1.25000 0.58300 0.91600 0.25000

CLASS INTERVALS

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 3 (S-FEX)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	1.07	1.07
-5.840E-01	-4.173E-01	3	3	20.00	20.00	0.80	6.01
-4.173E-01	-2.507E-01	1	4	6.67	26.67	1.15	0.02
-2.507E-01	-8.400E-02	1	5	6.67	33.33	1.50	0.16
-8.400E-02	8.267E-02	2	7	13.33	46.67	1.76	0.03
8.267E-02	2.493E-01	1	8	6.67	53.33	1.88	0.41
2.493E-01	4.160E-01	1	9	6.67	60.00	1.81	0.36
4.160E-01	5.827E-01	1	10	6.67	66.67	1.59	0.22
5.827E-01	7.493E-01	3	13	20.00	86.67	1.26	2.40
7.493E-01	9.160E-01	1	14	6.67	93.33	0.91	0.01
9.160E-01	1.083E+00	1	15	6.67	100.00	1.28	0.06
G		0	15	0.00	100.00	1.07	1.07
H		0	15				
B		0	15				

TOTALS LESS H AND B 15

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

3.157E-01 XXXXXXXXXXXXXXXXXXXXXXX
 4.634E-01 XXXXXXXX
 6.602E-01 XXXXXX
 9.985E-01 XXXXXXXXX
 1.466E+00 XXXXXX
 2.151E+00 XXXXXX
 3.157E+00 XXXXXX
 4.634E+00 XXXXXXXXXXXXXXXXXXXXXXX
 6.803E+00 XXXXXX
 9.985E+00 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E-01
 MAXIMUM ANTILOG = 1.00000E+01
 GEOMETRIC MEAN = 1.55398E+00
 GEOMETRIC DEVIATION = 3.37876E+00
 VARIANCE OF LOGS = 2.79585E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
------------------------	------------	-------------------

90.00
95.00
98.00

8.326695E-01
1.000000E+35
1.000000E+35

6.802515E+00
1.000000E+35
1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	3	3	20.00	20.00		
T	0	3	0.00	20.00	2.15	2.15
-1.750E+00 - -1.583E+00	2	5	13.33	33.33	0.79	1.86
-1.583E+00 - -1.417E+00	0	5	0.00	33.33	0.94	0.94
-1.417E+00 - -1.250E+00	0	5	0.00	33.33	1.08	1.08
-1.250E+00 - -1.083E+00	2	7	13.33	46.67	1.18	0.56
-1.083E+00 - -9.167E-01	1	8	6.67	53.33	1.24	0.05
-9.167E-01 - -7.500E-01	1	9	6.67	60.00	1.25	0.05
-7.500E-01 - -5.833E-01	2	11	13.33	73.33	1.20	0.54
-5.833E-01 - -4.167E-01	1	12	6.67	80.00	1.10	0.01
-4.167E-01 - -2.500E-01	1	13	6.67	86.67	0.97	0.00
-2.500E-01 - -8.333E-02	0	13	0.00	86.67	0.82	0.82
-8.333E-02 - 8.334E-02	0	13	0.00	86.67	0.66	0.66
8.334E-02 - 2.500E-01	0	13	0.00	86.67	0.51	0.51
2.500E-01 - 4.167E-01	0	13	0.00	86.67	0.38	0.38
4.167E-01 - 5.833E-01	1	14	6.67	93.33	0.27	2.02
5.833E-01 - 7.500E-01	0	14	0.00	93.33	0.18	0.18
7.500E-01 - 9.167E-01	1	15	6.67	100.00	0.28	1.81
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

2.154E-02 XXXXXXXXXXXXXXX
 3.162E-02
 4.642E-02
 6.813E-02 XXXXXXXXXXXXXXX
 1.000E-01 XXXXXXXX
 1.468E-01 XXXXXX
 2.154E-01 XXXXXXXXXXXXXXX
 3.162E-01 XXXXXXXX
 4.642E-01 XXXXXX
 6.813E-01
 1.000E+00
 1.468E+00
 2.154E+00
 3.162E+00 XXXXXXXX
 4.642E+00
 6.813E+00 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-02

MAXIMUM ANTILOG = 7.00000E+00
GEOMETRIC MEAN = 1.98332E-01
GEOMETRIC DEVIATION = 5.85376E+00
VARIANCE OF LOGS = 5.88956E-01

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.666705E-01	1.467812E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 5 (S-CAX)

LOG LIMITS LOWER ~ UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	1	1	6.67	6.67		
L	2	3	13.33	20.00		
T	0	3	0.00	20.00	2.09	2.09
-1.417E+00 ~ -1.250E+00	3	6	20.00	40.00	0.69	7.66
-1.250E+00 ~ -1.084E+00	1	7	6.67	46.67	0.82	0.04
-1.084E+00 ~ -9.170E-01	0	7	0.00	46.67	0.94	0.94
-9.170E-01 ~ -7.503E-01	0	7	0.00	46.67	1.03	1.03
-7.503E-01 ~ -5.837E-01	1	8	6.67	53.33	1.10	0.01
-5.837E-01 ~ -4.170E-01	0	8	0.00	53.33	1.13	1.13
-4.170E-01 ~ -2.503E-01	0	8	0.00	53.33	1.12	1.12
-2.503E-01 ~ -8.366E-02	1	9	6.67	60.00	1.07	0.00
-8.366E-02 ~ 8.300E-02	1	10	6.67	66.67	0.98	0.00
8.300E-02 ~ 2.497E-01	1	11	6.67	73.33	0.88	0.02
2.497E-01 ~ 4.163E-01	1	12	6.67	80.00	0.75	0.08
4.163E-01 ~ 5.830E-01	0	12	0.00	80.00	0.62	0.62
5.830E-01 ~ 7.497E-01	2	14	13.33	93.33	0.50	4.52
7.497E-01 ~ 9.163E-01	0	14	0.00	93.33	0.39	0.39
9.163E-01 ~ 1.083E+00	1	15	6.67	100.00	0.88	0.02
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

4.638E-02 XXXXXXXXXXXXXXXXXXXX
 6.803E-02 XXXXXXX
 9.992E-02
 1.467E-01
 2.153E-01 XXXXXXX
 3.160E-01
 4.638E-01
 6.808E-01 XXXXXXX
 9.992E-01 XXXXXXX
 1.467E+00 XXXXXXX
 2.153E+00 XXXXXXX
 3.160E+00
 4.638E+00 XXXXXXXXXXXXXXX
 6.808E+00
 9.992E+00 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-02
 MAXIMUM ANTILOG = 1.00000E+01
 GEOMETRIC MEAN = 5.58384E-01

GEOMETRIC DEVIATION = 7.34967E+00
VARIANCE OF LOGS = 7.50420E-01

PERCENT TABLE FOR VARIABLE S (S-CAZ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	6.663375E-01	4.638072E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 6 (S-TIX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR (NORMAL DIST) FREQ	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	1	1	6.67	6.67		
L	0	1	0.00	6.67		
T	0	1	0.00	6.67	0.72	0.72
-2.750E+00 - -2.583E+00	2	3	13.33	20.00	0.44	5.58
-2.583E+00 - -2.417E+00	0	3	0.00	20.00	0.62	0.62
-2.417E+00 - -2.250E+00	0	3	0.00	20.00	0.82	0.82
-2.250E+00 - -2.083E+00	1	4	6.67	26.67	1.02	0.00
-2.083E+00 - -1.917E+00	1	5	6.67	33.33	1.21	0.04
-1.917E+00 - -1.750E+00	0	5	0.00	33.33	1.35	1.35
-1.750E+00 - -1.583E+00	1	6	6.67	40.00	1.43	0.13
-1.583E+00 - -1.417E+00	1	7	6.67	46.67	1.42	0.12
-1.417E+00 - -1.250E+00	2	9	13.33	60.00	1.34	0.33
-1.250E+00 - -1.083E+00	1	10	6.67	66.67	1.19	0.03
-1.083E+00 - -9.167E-01	4	14	26.67	93.33	0.99	9.09
-9.167E-01 - -7.500E-01	0	14	0.00	93.33	0.79	0.79
-7.500E-01 - -5.833E-01	1	15	6.67	100.00	1.67	0.27
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

2.154E-03 XXXXXXXXXXXXXXX
 3.162E-03
 4.642E-03
 6.813E-03 XXXXXXX
 1.000E-02 XXXXXXX
 1.468E-02
 2.154E-02 XXXXXXX
 3.162E-02 XXXXXXX
 4.642E-02 XXXXXXXXXXXXXXX
 6.813E-02 XXXXXXX
 1.000E-01 XXXXXXXXXXXXXXXXXXXXXXX
 1.468E-01
 2.154E-01 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-03
 MAXIMUM ANTILOG = 2.00000E-01
 GEOMETRIC MEAN = 3.04458E-02
 GEOMETRIC DEVIATION = 4.42897E+00
 VARIANCE OF LOGS = 4.17707E-01

PERCENT TABLE FOR VARIABLE 6 (S-TIX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-9.374964E-01	1.154792E-01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	1	1	6.67	6.67		
L	1	2	6.67	13.33		
T	0	2	0.00	13.33	2.32	2.32
1.250E+00 - 1.417E+00	3	5	20.00	33.33	0.88	5.06
1.417E+00 - 1.583E+00	1	6	6.67	40.00	1.06	0.00
1.583E+00 - 1.750E+00	0	6	0.00	40.00	1.20	1.20
1.750E+00 - 1.917E+00	0	6	0.00	40.00	1.30	1.30
1.917E+00 - 2.083E+00	2	8	13.33	53.33	1.33	0.34
2.083E+00 - 2.250E+00	0	8	0.00	53.33	1.30	1.30
2.250E+00 - 2.417E+00	2	10	13.33	66.67	1.21	0.51
2.417E+00 - 2.583E+00	1	11	6.67	73.33	1.08	0.01
2.583E+00 - 2.750E+00	2	13	13.33	86.67	0.91	1.32
2.750E+00 - 2.917E+00	0	13	0.00	86.67	0.73	0.73
2.917E+00 - 3.083E+00	1	14	6.67	93.33	0.56	0.35
3.083E+00 - 3.250E+00	0	14	0.00	93.33	0.40	0.40
3.250E+00 - 3.417E+00	1	15	6.67	100.00	0.73	0.10
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

2.154E+01 XXXXXXXXXXXXXXXXXXXX
 3.162E+01 XXXXXXX
 4.642E+01
 6.813E+01
 1.000E+02 XXXXXXXXXXXXXXX
 1.468E+02
 2.154E+02 XXXXXXXXXXXXXXX
 3.162E+02 XXXXXXXX
 4.642E+02 XXXXXXXXXXXXXXX
 6.813E+02
 1.000E+03 XXXXXXX
 1.468E+03
 2.154E+03 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 2.00000E+03
 GEOMETRIC MEAN = 1.46564E+02
 GEOMETRIC DEVIATION = 4.72607E+00
 VARIANCE OF LOGS = 4.54951E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.916670E+00	8.254105E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 8 (S-AG)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	2	2	13.33	13.33		
L	2	4	13.33	26.67		
T	0	4	0.00	26.67	1.92	1.92
-2.500E-01 - 8.333E-02	1	5	6.67	33.33	0.39	0.96
-8.333E-02 - 8.333E-02	0	5	0.00	33.33	0.44	0.44
8.333E-02 - 2.500E-01	0	5	0.00	33.33	0.49	0.49
2.500E-01 - 4.167E-01	0	5	0.00	33.33	0.53	0.53
4.167E-01 - 5.833E-01	0	5	0.00	33.33	0.58	0.58
5.833E-01 - 7.500E-01	0	5	0.00	33.33	0.61	0.61
7.500E-01 - 9.167E-01	1	6	6.67	40.00	0.65	0.19
9.167E-01 - 1.083E+00	1	7	6.67	46.67	0.67	0.16
1.083E+00 - 1.250E+00	1	8	6.67	53.33	0.69	0.14
1.250E+00 - 1.417E+00	0	8	0.00	53.33	0.69	0.69
1.417E+00 - 1.583E+00	0	8	0.00	53.33	0.69	0.69
1.583E+00 - 1.750E+00	0	8	0.00	53.33	0.68	0.68
1.750E+00 - 1.917E+00	1	9	6.67	60.00	0.66	0.17
1.917E+00 - 2.083E+00	0	9	0.00	60.00	0.63	0.63
2.083E+00 - 2.250E+00	1	10	6.67	66.67	0.60	0.27
2.250E+00 - 2.417E+00	0	10	0.00	66.67	0.56	0.56
2.417E+00 - 2.583E+00	1	11	6.67	73.33	0.51	0.46
2.583E+00 - 2.750E+00	1	12	6.67	80.00	0.46	0.62
2.750E+00 - 2.917E+00	0	12	0.00	80.00	0.42	0.42
2.917E+00 - 3.083E+00	0	12	0.00	80.00	0.37	0.37
3.083E+00 - 3.250E+00	2	14	13.33	93.33	0.32	8.82
3.250E+00 - 3.417E+00	0	14	0.00	93.33	0.27	0.27
3.417E+00 - 3.583E+00	1	15	6.67	100.00	1.16	0.02
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
S	0	15				

TOTALS LESS H AND S 15

HISTOGRAM FOR VARIABLE 8 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

6.813E-01 XXXXXXXX
 1.000E+00
 1.468E+00
 2.154E+00
 3.162E+00
 4.642E+00
 6.813E+00 XXXXXXXX
 1.000E+01 XXXXXXXX
 1.468E+01 XXXXXXXX
 2.154E+01
 3.162E+01
 4.642E+01
 6.813E+01 XXXXXXXX
 1.000E+02
 1.468E+02 XXXXXXXX

2.154E+02
3.162E+02 XXXXXXXX
4.642E+02 XXXXXXXX
6.813E+02
1.000E+03
1.468E+03 XXXXXXXXXXXXXX
2.154E+03
3.162E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 3.00000E+03
GEOMETRIC MEAN = 9.77825E+01
GEOMETRIC DEVIATION = 1.43380E+01
VARIANCE OF LOGS = 1.33747E+00

PERCENT TABLE FOR VARIABLE 8 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
98.00	3.125007E+00	1.333542E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 9 (S-AS)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR (NORMAL DIST) FREQ	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	9	9	60.00	60.00		
L	1	10	6.67	66.67		
T	0	10	0.00	66.67	3.65	3.65
2.250E+00 - 2.417E+00	2	12	13.33	80.00	4.29	1.22
2.417E+00 - 2.583E+00	0	12	0.00	80.00	4.07	4.07
2.583E+00 - 2.750E+00	2	14	13.33	93.33	2.19	0.02
2.750E+00 - 2.917E+00	0	14	0.00	93.33	0.67	0.67
2.917E+00 - 3.083E+00	1	15	6.67	100.00	0.13	5.90
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

HISTOGRAM FOR VARIABLE 9 (S-AS)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+02 XXXXXXXXXXXXXXX
 3.162E+02 XXXXXXXXXXXXXXX
 4.042E+02 XXXXXXXXXXXXXXX
 6.813E+02
 1.000E+03 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 3.98107E+02
 GEOMETRIC DEVIATION = 1.99211E+00
 VARIANCE OF LOGS = 8.95839E-02

PERCENT TABLE FOR VARIABLE 9 (S-AS) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.666668E+00	4.641598E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 11 (S-B)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	$(\text{THEOR FREQ} - \text{OBS FREQ})^{**2}/\text{THEOR FREQ}$
N	2	2	13.33	13.33		
L	1	3	6.67	20.00		
T	0	3	0.00	20.00	4.12	4.12
1.250E+00 - 1.417E+00	3	6	20.00	40.00	2.56	0.07
1.417E+00 - 1.583E+00	5	11	33.33	73.33	2.73	1.90
1.583E+00 - 1.750E+00	2	13	13.33	86.67	2.35	0.05
1.750E+00 - 1.917E+00	0	13	0.00	86.67	1.65	1.65
1.917E+00 - 2.083E+00	1	14	6.67	93.33	0.93	0.00
2.083E+00 - 2.250E+00	0	14	0.00	93.33	0.43	0.43
2.250E+00 - 2.417E+00	1	15	6.67	100.00	0.22	2.69
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

2.154E+01 XXXXXXXXXXXXXXXXXXXXXXX
 3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.642E+01 XXXXXXXXXXXXXXX
 6.813E+01
 1.000E+02 XXXXXX
 1.468E+02
 2.154E+02 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 2.00000E+02
 GEOMETRIC MEAN = 3.82213E+01
 GEOMETRIC DEVIATION = 2.00980E+00
 VARIANCE OF LOGS = 9.19019E-02

PERCENT TABLE FOR VARIABLE 11 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.916668E+00	8.254067E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 12 (S-BA)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	5	5	33.33	33.33		
T	0	5	0.00	33.33	2.77	2.77
1.416E+00 - 1.583E+00	1	6	6.67	40.00	0.89	0.01
1.583E+00 - 1.749E+00	0	6	0.00	40.00	1.02	1.02
1.749E+00 - 1.916E+00	0	6	0.00	40.00	1.13	1.13
1.916E+00 - 2.083E+00	1	7	6.67	46.67	1.20	0.03
2.083E+00 - 2.249E+00	0	7	0.00	46.67	1.22	1.22
2.249E+00 - 2.416E+00	3	10	20.00	66.67	1.19	2.76
2.416E+00 - 2.583E+00	1	11	6.67	73.33	1.11	0.01
2.583E+00 - 2.749E+00	1	12	6.67	80.00	1.00	0.00
2.749E+00 - 2.916E+00	0	12	0.00	80.00	0.86	0.86
2.916E+00 - 3.083E+00	0	12	0.00	80.00	0.71	0.71
3.083E+00 - 3.249E+00	1	13	6.67	86.67	0.56	0.34
3.249E+00 - 3.416E+00	1	14	6.67	93.33	1.33	0.08
G	1	15	6.67	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

3.157E+01 XXXXXXXX
 4.634E+01
 6.802E+01
 9.985E+01 XXXXXXXX
 1.466E+02
 2.151E+02 XXXXXXXXXXXXXXXXXXXX
 3.157E+02 XXXXXXXX
 4.634E+02 XXXXXXXX
 6.803E+02
 9.985E+02
 1.466E+03 XXXXXXXX
 2.151E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
 MAXIMUM ANTILOG = 2.00000E+03
 GEOMETRIC MEAN = 2.80646E+02
 GEOMETRIC DEVIATION = 3.65031E+00
 VARIANCE OF LOGS = 3.16215E-01

PERCENT TABLE FOR VARIABLE 12 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION.

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.332671E+00	2.151149E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 13 (S-BE)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	1	1	6.67	6.67		
L	3	4	20.00	26.67		
T	0	4	0.00	26.67	1.04	1.04
-8.400E-02 - 8.267E-02	2	6	13.33	40.00	3.52	0.66
8.267E-02 - 2.493E-01	4	10	26.67	66.67	5.58	0.45
2.493E-01 - 4.160E-01	3	13	20.00	86.67	3.70	0.13
4.160E-01 - 5.827E-01	2	15	13.33	100.00	1.15	0.62
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

9.985E-01 XXXXXXXXXXXXXXXX
1.466E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXX
3.157E+00 XXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 3.00000E+00
GEOMETRIC MEAN = 1.70955E+00
GEOMETRIC DEVIATION = 1.44399E+00
VARIANCE OF LOGS = 2.54607E-02

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

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 15 (S-CD)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	9	9	60.00	60.00		
L	0	9	0.00	60.00		
T	0	9	0.00	60.00	4.39	4.39
1.250E+00 - 1.417E+00	2	11	13.33	73.33	2.51	0.10
1.417E+00 - 1.583E+00	2	13	13.33	86.67	2.62	0.15
1.583E+00 - 1.750E+00	0	13	0.00	86.67	2.25	2.25
1.750E+00 - 1.917E+00	1	14	6.67	93.33	3.22	1.53
G	1	15	6.67	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

HISTOGRAM FOR VARIABLE 15 (S-CD)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01 XXXXXXXXXXXXXXX
 3.162E+01 XXXXXXXXXXXXXXX
 4.642E+01
 6.813E+01 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 7.00000E+01
 GEOMETRIC MEAN = 3.02190E+01
 GEOMETRIC DEVIATION = 1.66776E+00
 VARIANCE OF LOGS = 4.93433E-02

PERCENT TABLE FOR VARIABLE 15 (S-CD) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.75000E+00	5.623426E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 16 (S-CO)

LOG LIMITS LOWER	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		6	6	40.00	40.00		
L		3	9	20.00	60.00		
T		0	9	0.00	60.00	2.90	2.90
5.830E-01	7.497E-01	2	11	13.33	73.33	2.86	0.26
7.497E-01	9.163E-01	1	12	6.67	80.00	3.37	1.67
9.163E-01	1.083E+00	1	13	6.67	86.67	2.89	1.24
1.083E+00	1.250E+00	0	13	0.00	86.67	1.81	1.81
1.250E+00	1.416E+00	1	14	6.67	93.33	0.82	0.04
1.416E+00	1.583E+00	0	14	0.00	93.33	0.27	0.27
1.583E+00	1.750E+00	1	15	6.67	100.00	0.08	10.77
G		0	15	0.00	100.00	0.00	0.00
H		0	15				
B		0	15				

TOTALS LESS H AND B 15

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

4.638E+00 XXXXXXXXXXXXXXX
 6.308E+00 XXXXXXX
 9.992E+00 XXXXXX
 1.467E+01 XXXXX
 2.153E+01 XXXXX
 3.160E+01 XXXXX
 4.638E+01 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 5.00000E+01
 GEOMETRIC MEAN = 1.09776E+01
 GEOMETRIC DEVIATION = 2.47509E+00
 VARIANCE OF LOGS = 1.54913E-01

PERCENT TABLE FOR VARIABLE 16 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.249668E+00	1.776921E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 17 (S-CR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	13	13	86.67	86.67		
L	0	13	0.00	86.67		
T	0	13	0.00	86.67	5.05	5.05
9.160E-01 - 1.083E+00	1	14	6.67	93.33	1.86	0.40
1.083E+00 - 1.249E+00	0	14	0.00	93.33	1.92	1.92
1.249E+00 - 1.416E+00	0	14	0.00	93.33	1.79	1.79
1.416E+00 - 1.583E+00	0	14	0.00	93.33	1.50	1.50
1.583E+00 - 1.749E+00	0	14	0.00	93.33	1.13	1.13
1.749E+00 - 1.916E+00	0	14	0.00	93.33	0.77	0.77
1.916E+00 - 2.083E+00	0	14	0.00	93.33	0.48	0.48
2.083E+00 - 2.249E+00	0	14	0.00	93.33	0.26	0.26
2.249E+00 - 2.416E+00	0	14	0.00	93.33	0.13	0.13
2.416E+00 - 2.583E+00	0	14	0.00	93.33	0.06	0.06
2.583E+00 - 2.749E+00	0	14	0.00	93.33	0.02	0.02
2.749E+00 - 2.916E+00	0	14	0.00	93.33	0.01	0.01
2.916E+00 - 3.083E+00	1	15	6.67	100.00	0.00	237.69
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

9.985E+00 XXXXXX
 1.466E+01
 2.151E+01
 3.157E+01
 4.634E+01
 6.802E+01
 9.935E+01
 1.466E+02
 2.151E+02
 3.157E+02
 4.635E+02
 6.803E+02
 9.985E+02 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 1.00000E+02
 GEOMETRIC DEVIATION = 2.59546E+01
 VARIANCE OF LOGS = 2.00000E+00

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

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

Nevada data

FREQUENCY TABLE FOR VARIABLE 18 (S-CU)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		2	2	13.33	13.33		
T		0	2	0.00	13.33	1.55	1.55
7.500E-01	- 9.167E-01	1	3	6.67	20.00	0.45	0.68
9.167E-01	- 1.083E+00	1	4	6.67	26.67	0.53	0.42
1.083E+00	- 1.250E+00	1	5	6.67	33.33	0.61	0.25
1.250E+00	- 1.417E+00	0	5	0.00	33.33	0.69	0.69
1.417E+00	- 1.583E+00	1	6	6.67	40.00	0.76	0.07
1.583E+00	- 1.750E+00	0	6	0.00	40.00	0.82	0.82
1.750E+00	- 1.917E+00	1	7	6.67	46.67	0.87	0.02
1.917E+00	- 2.083E+00	0	7	0.00	46.67	0.90	0.90
2.083E+00	- 2.250E+00	0	7	0.00	46.67	0.90	0.90
2.250E+00	- 2.417E+00	1	8	6.67	53.33	0.89	0.01
2.417E+00	- 2.583E+00	1	9	6.67	60.00	0.86	0.02
2.583E+00	- 2.750E+00	0	9	0.00	60.00	0.81	0.81
2.750E+00	- 2.917E+00	0	9	0.00	60.00	0.74	0.74
2.917E+00	- 3.083E+00	3	12	20.00	80.00	0.67	3.13
3.083E+00	- 3.250E+00	0	12	0.00	80.00	0.59	0.59
3.250E+00	- 3.417E+00	1	13	6.67	86.67	0.50	0.49
3.417E+00	- 3.583E+00	1	14	6.67	93.33	0.42	0.78
3.583E+00	- 3.750E+00	0	14	0.00	93.33	0.35	0.35
3.750E+00	- 3.917E+00	1	15	6.67	100.00	1.08	0.01
G		0	15	0.00	100.00	0.00	0.00
H		0	15				
B		0	15				

TOTALS LESS H AND B

15

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

6.813E+00 XXXXXXXX
 1.000E+01 XXXXXXXX
 1.468E+01 XXXXXXXX
 2.154E+01
 3.162E+01 XXXXXXXX
 4.642E+01
 6.813E+01 XXXXXXXX
 1.000E+02
 1.468E+02
 2.154E+02 XXXXXXXX
 3.162E+02 XXXXXXXX
 4.642E+02
 6.813E+02
 1.000E+03 XXXXXXXXXXXXXXXXXXXXXXXXX
 1.468E+03
 2.154E+03 XXXXXXXX
 3.162E+03 XXXXXXXX
 4.642E+03
 6.813E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 7.00000E+03
GEOMETRIC MEAN = 2.31732E+02
GEOMETRIC DEVIATION = 1.01691E+01
VARIANCE OF LOGS = 1.01462E+00

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.500006E+00	3.162318E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 20 (S-MO)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		7	7	46.67	46.67		
L		0	7	0.00	46.67		
T		0	7	0.00	46.67	3.11	3.11
5.830E-01	- 7.497E-01	2	9	13.33	60.00	1.48	0.18
7.497E-01	- 9.163E-01	0	9	0.00	60.00	1.73	1.73
9.163E-01	- 1.083E+00	3	12	20.00	80.00	1.84	0.73
1.083E+00	- 1.250E+00	0	12	0.00	80.00	1.78	1.78
1.250E+00	- 1.416E+00	0	12	0.00	80.00	1.56	1.56
1.416E+00	- 1.583E+00	0	12	0.00	80.00	1.25	1.25
1.583E+00	- 1.750E+00	1	13	6.67	86.67	0.91	0.01
1.750E+00	- 1.916E+00	0	13	0.00	86.67	0.60	0.60
1.916E+00	- 2.083E+00	0	13	0.00	86.67	0.36	0.36
2.083E+00	- 2.250E+00	2	15	13.33	100.00	0.37	7.24
G		0	15	0.00	100.00	0.00	0.00
H		0	15				
B		0	15				

TOTALS LESS H AND B 15

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

4.634E+00 XXXXXXXXXXXXXXX
 6.808E+00
 9.992E+00 XXXXXXXXXXXXXXXXXXXXXXX
 1.467E+01
 2.153E+01
 3.160E+01
 4.638E+01 XXXXXXXX
 6.808E+01
 9.992E+01
 1.467E+02 XXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 1.50000E+02
 GEOMETRIC MEAN = 2.02366E+01
 GEOMETRIC DEVIATION = 4.16385E+00
 VARIANCE OF LOGS = 3.83774E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
------------------------	------------	-------------------

90.00
95.00
98.00

1.000000E+35
1.000000E+35
1.000000E+35

1.000000E+35
1.000000E+35
1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 25 (S-SC)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		8	8	4.52	4.52		
T		0	8	0.00	4.52	4.32	4.32
9.160E-01	- 1.083E+00	17	25	9.60	14.12	12.73	1.44
1.083E+00	- 1.249E+00	16	41	9.04	23.16	29.43	6.13
1.249E+00	- 1.416E+00	44	85	24.86	48.02	44.29	0.00
1.416E+00	- 1.583E+00	44	129	24.86	72.88	43.39	0.01
1.583E+00	- 1.749E+00	37	166	20.90	93.79	27.66	3.15
1.749E+00	- 1.910E+00	11	177	6.21	100.00	15.18	1.15
G		0	177	0.00	100.00	0.00	0.00
H		0	177				
B		0	177				

TOTALS LESS H AND B 177

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

9.985E+00 XXXXXXXXXX
 1.466E+01 XXXXXXXXXX
 2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
 4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
 6.802E+01 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 7.00000E+01
 GEOMETRIC MEAN = 2.67487E+01
 GEOMETRIC DEVIATION = 1.73275E+00
 VARIANCE OF LOGS = 5.69954E-02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.719155E+00	5.237871E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 26 (S-SN)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	115	115	64.97	64.97		
L	14	129	7.91	72.88		
T	0	129	0.00	72.88	49.24	49.24
1.250E+00 - 1.417E+00	14	143	7.91	80.79	48.79	24.81
1.417E+00 - 1.583E+00	14	157	7.91	88.70	44.42	20.84
1.583E+00 - 1.750E+00	10	167	5.65	94.35	24.50	8.58
1.750E+00 - 1.917E+00	4	171	2.26	96.61	8.18	2.13
1.917E+00 - 2.083E+00	2	173	1.13	97.74	1.65	0.07
2.083E+00 - 2.250E+00	1	174	0.56	98.31	0.20	3.18
2.250E+00 - 2.417E+00	0	174	0.00	98.31	0.00	0.00
2.417E+00 - 2.583E+00	2	176	1.13	99.44	0.00	0.00
2.583E+00 - 2.750E+00	0	176	0.00	99.44	0.00	0.00
2.750E+00 - 2.917E+00	0	176	0.00	99.44	0.00	0.00
2.917E+00 - 3.083E+00	1	177	0.56	100.00	0.02	62.86
G	0	177	0.00	100.00	0.00	0.00
H	0	177				
B	0	177				

TOTALS LESS N AND B 177

HISTOGRAM FOR VARIABLE 26 (S-SN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01 XXXXXXXX
 3.162E+01 XXXXXXXX
 4.642E+01 XXXXXX
 6.813E+01 XX
 1.000E+02 X
 1.453E+02 X
 2.154E+02
 3.162E+02 X
 4.642E+02
 6.813E+02
 1.000E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 4.09625E+01
 GEOMETRIC DEVIATION = 2.26793E+00
 VARIANCE OF LOGS = 1.26472E-01

PERCENT TABLE FOR VARIABLE 26 (S-SN) BY LINEAR INTERPOLATION FROM FREQUENY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED
PERCENTILE

DATA VALUE ANTI LOG OF VALUE

90.00	1.621667E+00	4.184730E+01
95.00	1.797918E+00	6.279394E+01
98.00	2.160002E+00	1.445446E+02

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.083001E+00	1.210601E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 23 (S-PB)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N			0	0	0.00	0.00		
L			0	0	0.00	0.00		
T			0	0	0.00	0.00	1.05	1.05
1.083E+00	-	1.250E+00	1	1	6.67	6.67	0.32	1.46
1.250E+00	-	1.416E+00	2	3	13.33	20.00	0.39	6.77
1.416E+00	-	1.583E+00	1	4	6.67	26.67	0.46	0.65
1.583E+00	-	1.750E+00	0	4	0.00	26.67	0.53	0.53
1.750E+00	-	1.916E+00	0	4	0.00	26.67	0.60	0.60
1.916E+00	-	2.083E+00	1	5	6.67	33.33	0.67	0.16
2.083E+00	-	2.250E+00	1	6	6.67	40.00	0.73	0.10
2.250E+00	-	2.416E+00	1	7	6.67	46.67	0.78	0.06
2.416E+00	-	2.583E+00	0	7	0.00	46.67	0.82	0.82
2.583E+00	-	2.750E+00	0	7	0.00	46.67	0.85	0.85
2.750E+00	-	2.916E+00	0	7	0.00	46.67	0.85	0.85
2.916E+00	-	3.083E+00	1	8	6.67	53.33	0.84	0.03
3.083E+00	-	3.250E+00	0	8	0.00	53.33	0.81	0.81
3.250E+00	-	3.416E+00	0	8	0.00	53.33	0.77	0.77
3.416E+00	-	3.583E+00	0	8	0.00	53.33	0.72	0.72
3.583E+00	-	3.750E+00	2	10	13.33	66.67	0.65	2.79
3.750E+00	-	3.916E+00	2	12	13.33	80.00	0.58	3.47
3.916E+00	-	4.083E+00	2	14	13.33	93.33	2.57	0.13
G			1	15	6.67	100.00	1.05	0.00
H			0	15				
B			0	15				

TOTALS LESS H AND B 15

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

1.467E+01 XXXXXXXX
 2.153E+01 XXXXXXXXXXXXXXX
 3.160E+01 XXXXXXXX
 4.638E+01
 6.808E+01
 9.992E+01 XXXXXXXX
 1.467E+02 XXXXXXXX
 2.153E+02 XXXXXXXX
 3.160E+02
 4.638E+02
 6.808E+02
 9.992E+02 XXXXXXXX
 1.467E+03
 2.153E+03
 3.160E+03
 4.638E+03 XXXXXXXXXXXXXXX
 6.808E+03 XXXXXXXXXXXXXXX
 9.992E+03 XXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 1.00000E+04
GEOMETRIC MEAN = 5.02882E+02
GEOMETRIC DEVIATION = 1.36427E+01
VARIANCE OF LOGS = 1.28800E+00

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	4.041339E+00	1.099865E+04
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 24 (S-SB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	10	10	66.67	66.67		
L	0	10	0.00	66.67		
T	0	10	0.00	66.67	3.62	3.62
1.916E+00 - 2.083E+00	1	11	6.67	73.33	2.27	0.71
2.083E+00 - 2.249E+00	1	12	6.67	80.00	2.55	0.94
2.249E+00 - 2.416E+00	0	12	0.00	80.00	2.38	2.38
2.416E+00 - 2.583E+00	1	13	6.67	86.67	1.86	0.40
2.583E+00 - 2.749E+00	0	13	0.00	86.67	1.21	1.21
2.749E+00 - 2.916E+00	0	13	0.00	86.67	0.66	0.66
2.916E+00 - 3.083E+00	1	14	6.67	93.33	0.30	1.66
3.083E+00 - 3.249E+00	1	15	6.67	100.00	0.16	4.44
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

HISTOGRAM FOR VARIABLE 24 (S-SB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.225E+01 XXXXXXXX
 1.466E+02 XXXXXXXX
 2.151E+02
 3.157E+02 XXXXXXXX
 4.634E+02
 6.802E+02
 9.985E+02 XXXXXXXX
 1.466E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
 MAXIMUM ANTILOG = 1.50000E+03
 GEOMETRIC MEAN = 3.68011E+02
 GEOMETRIC DEVIATION = 3.23676E+00
 VARIANCE OF LOGS = 2.60213E-01

PERCENT TABLE FOR VARIABLE 24 (S-SB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.832669E+00	6.802499E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 27 (S-SR)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N			6	6	40.00	40.00		
L			1	7	6.67	46.67		
T			0	7	0.00	46.67	3.02	3.02
1.916E+00	-	2.083E+00	1	8	6.67	53.33	2.30	0.73
2.083E+00	-	2.249E+00	2	10	13.33	66.67	2.72	0.19
2.249E+00	-	2.416E+00	3	13	20.00	86.67	2.61	0.06
2.416E+00	-	2.583E+00	0	13	0.00	86.67	2.03	2.03
2.583E+00	-	2.749E+00	1	14	6.67	93.33	1.28	0.06
2.749E+00	-	2.916E+00	0	14	0.00	93.33	0.65	0.65
2.916E+00	-	3.083E+00	0	14	0.00	93.33	0.27	0.27
3.083E+00	-	3.249E+00	0	14	0.00	93.33	0.09	0.09
3.249E+00	-	3.416E+00	1	15	6.67	100.00	0.03	30.73
G			0	15	0.00	100.00	0.00	0.00
H			0	15				
B			0	15				

TOTALS LESS H AND B

15

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

9.985E+01 XXXXXXXX
 1.466E+02 XXXXXXXXXXXXXXXX
 2.151E+02 XXXXXXXXXXXXXXXXXXXXXXXXX
 3.157E+02
 4.634E+02 XXXXXXXX
 6.802E+02
 9.985E+02
 1.466E+03
 2.151E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
 MAXIMUM ANTILOG = 2.00000E+03
 GEOMETRIC MEAN = 2.55217E+02
 GEOMETRIC DEVIATION = 2.58463E+00
 VARIANCE OF LOGS = 1.70073E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.582668E+00	3.825322E+02

95.00

1.000000E+35

1.000000E+35

98.00

1.000000E+35

1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 28 (S-V)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	6	6	40.00	40.00		
T	0	6	0.00	40.00	1.69	1.69
9.160E-01 - 1.083E+00	1	7	6.67	46.67	2.47	0.88
1.083E+00 - 1.249E+00	1	8	6.67	53.33	3.53	1.81
1.249E+00 - 1.416E+00	2	10	13.33	66.67	3.46	0.62
1.416E+00 - 1.583E+00	3	13	20.00	86.67	2.33	0.19
1.583E+00 - 1.749E+00	2	15	13.33	100.00	1.51	0.16
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

9.985E+00 XXXXXX
 1.466E+01 XXXXXX
 2.151E+01 XXXXXXXXXXXXXXXX
 3.157E+01 XXXXXXXXXXXXXXXXXXXX
 4.634E+01 XXXXXXXXXXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 5.00000E+01
 GEOMETRIC MEAN = 2.51668E+01
 GEOMETRIC DEVIATION = 1.70156E+00
 VARIANCE OF LOGS = 5.32910E-02

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

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

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 31 (S-ZN)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		6	6	40.00	40.00		
L		1	7	6.67	46.67		
T		0	7	0.00	46.67	3.13	3.13
2.250E+00	- 2.417E+00	2	9	13.33	60.00	1.20	0.53
2.417E+00	- 2.583E+00	0	9	0.00	60.00	1.38	1.38
2.583E+00	- 2.750E+00	0	9	0.00	60.00	1.50	1.50
2.750E+00	- 2.917E+00	0	9	0.00	60.00	1.51	1.51
2.917E+00	- 3.083E+00	1	10	6.67	66.67	1.44	0.13
3.083E+00	- 3.250E+00	1	11	6.67	73.33	1.28	0.06
3.250E+00	- 3.417E+00	1	12	6.67	80.00	1.07	0.00
3.417E+00	- 3.583E+00	0	12	0.00	80.00	0.84	0.84
3.583E+00	- 3.750E+00	1	13	6.67	86.67	0.61	0.24
3.750E+00	- 3.917E+00	1	14	6.67	93.33	1.05	0.00
G		1	15	6.67	100.00	0.00	0.00
H		0	15				
Z		0	15				

TOTALS LESS H AND Z 15

HISTOGRAM FOR VARIABLE 31 (S-ZN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+02 XXXXXXXXXXXXXXX
 3.162E+02
 4.642E+02
 6.213E+02
 1.000E+03 XXXXXXXX
 1.468E+03 XXXXXXX
 2.154E+03 XXXXXXX
 3.162E+03
 4.642E+03 XXXXXXX
 6.813E+03 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
 MAXIMUM ANTILOG = 7.00000E+03
 GEOMETRIC MEAN = 1.22754E+03
 GEOMETRIC DEVIATION = 4.09099E+00
 VARIANCE OF LOGS = 3.74334E-01

PERCENT TABLE FOR VARIABLE 31 (S-ZN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
------------------------	------------	-------------------

90.00
95.00
98.00

3.833337E+00
1.000000E+35
1.000000E+35

6.812970E+03
1.000000E+35
1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 32 (S-ZR)

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		4	4	26.67	26.67		
L		1	5	6.67	33.33		
T		0	5	0.00	33.33	1.56	1.56
9.160E-01	- 1.083E+00	1	6	6.67	40.00	1.45	0.14
1.083E+00	- 1.249E+00	0	6	0.00	40.00	2.05	2.05
1.249E+00	- 1.416E+00	2	8	13.33	53.33	2.45	0.08
1.416E+00	- 1.583E+00	0	8	0.00	53.33	2.44	2.44
1.583E+00	- 1.749E+00	3	11	20.00	73.33	2.05	0.44
1.749E+00	- 1.916E+00	3	14	20.00	93.33	1.45	1.66
1.916E+00	- 2.083E+00	1	15	6.67	100.00	1.55	0.20
G		0	15	0.00	100.00	0.00	0.00
H		0	15				
B		0	15				

TOTALS LESS H AND B 15

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

9.985E+00 XXXXXX
 1.466E+01
 2.151E+01 XXXXXXXXXXXXXXXX
 3.157E+01
 4.634E+01 XXXXXXXXXXXXXXXXXXXXXXX
 6.802E+01 XXXXXXXXXXXXXXXXXXXXXXX
 9.985E+01 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 1.00000E+02
 GEOMETRIC MEAN = 4.20171E+01
 GEOMETRIC DEVIATION = 2.07364E+00
 VARIANCE OF LOGS = 1.00320E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.888224E+00	7.730795E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

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

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	3	3	20.00	20.00		
L	2	5	13.33	33.33		
T	0	5	0.00	33.33	1.83	1.83
-1.417E+00 - -1.250E+00	1	6	6.67	40.00	0.65	0.19
-1.250E+00 - -1.084E+00	0	6	0.00	40.00	0.78	0.78
-1.084E+00 - -9.170E-01	0	6	0.00	40.00	0.91	0.91
-9.170E-01 - -7.503E-01	1	7	6.67	46.67	1.02	0.00
-7.503E-01 - -5.837E-01	0	7	0.00	46.67	1.10	1.10
-5.837E-01 - -4.170E-01	0	7	0.00	46.67	1.14	1.14
-4.170E-01 - -2.503E-01	0	7	0.00	46.67	1.14	1.14
-2.503E-01 - -8.366E-02	1	8	6.67	53.33	1.11	0.01
-8.366E-02 - 8.300E-02	3	11	20.00	73.33	1.03	3.78
8.300E-02 - 2.497E-01	0	11	0.00	73.33	0.92	0.92
2.497E-01 - 4.163E-01	1	12	6.67	80.00	0.80	0.05
4.163E-01 - 5.830E-01	1	13	6.67	86.67	0.67	0.17
5.830E-01 - 7.497E-01	0	13	0.00	86.67	0.53	0.53
7.497E-01 - 9.163E-01	1	14	6.67	93.33	0.41	0.83
9.163E-01 - 1.083E+00	1	15	6.67	100.00	0.95	0.00
G	0	15	0.00	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

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

4.638E-02 XXXXXXX
 6.808E-02
 9.992E-02
 1.467E-01 XXXXXXX
 2.153E-01
 3.160E-01
 4.638E-01
 6.803E-01 XXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXXX
 1.467E+00
 2.153E+00 XXXXXXX
 3.160E+00 XXXXXXX
 4.638E+00
 6.803E+00 XXXXXXX
 9.992E+00 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-02
 MAXIMUM ANTILOG = 9.00000E+00
 GEOMETRIC MEAN = 1.09281E+00

GEOMETRIC DEVIATION = 5.13435E+00
VARIANCE OF LOGS = 5.04789E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	7.496710E-01	5.619155E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 35 (INST-HG)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	3	3	20.00	20.00		
L	2	5	13.33	33.33		
T	0	5	0.00	33.33	3.40	3.40
-1.250E+00 - -1.083E+00	1	6	6.67	40.00	0.80	0.05
-1.083E+00 - -9.167E-01	0	6	0.00	40.00	0.88	0.88
-9.167E-01 - -7.500E-01	0	6	0.00	40.00	0.94	0.94
-7.500E-01 - -5.833E-01	0	6	0.00	40.00	0.98	0.98
-5.833E-01 - -4.167E-01	1	7	6.67	46.67	1.00	0.00
-4.167E-01 - -2.500E-01	0	7	0.00	46.67	0.98	0.98
-2.500E-01 - -8.333E-02	1	8	6.67	53.33	0.94	0.00
-8.333E-02 - 8.334E-02	2	10	13.33	66.67	0.88	1.43
8.334E-02 - 2.500E-01	0	10	0.00	66.67	0.80	0.80
2.500E-01 - 4.167E-01	2	12	13.33	80.00	0.70	2.38
4.167E-01 - 5.833E-01	1	13	6.67	86.67	0.61	0.26
5.833E-01 - 7.500E-01	1	14	6.67	93.33	2.10	0.57
G	1	15	6.67	100.00	0.00	0.00
H	0	15				
B	0	15				

TOTALS LESS H AND B 15

HISTOGRAM FOR VARIABLE 35 (INST-HG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

6.813E-02 XXXXXXXX
 1.000E-01
 1.468E-01
 2.154E-01
 3.162E-01 XXXXXXXX
 4.642E-01
 6.613E-01 XXXXXXXX
 1.000E+00 XXXXXXXXXXXXXXX
 1.468E+00
 2.154E+00 XXXXXXXXXXXXXXX
 3.162E+00 XXXXXXXX
 4.642E+00 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 8.00000E-02
 MAXIMUM ANTILOG = 4.50000E+00
 GEOMETRIC MEAN = 1.00190E+00
 GEOMETRIC DEVIATION = 3.46397E+00
 VARIANCE OF LOGS = 2.91140E-01

PERCENT TABLE FOR VARIABLE 35 (INST-HG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION.

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	6.666705E-01	4.641630E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

Nevada data

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

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		2	2	13.33	13.33		
L		1	3	6.67	20.00		
T		0	3	0.00	20.00		
5.830E-01	- 7.497E-01	2	5	13.33	33.33	1.29	1.29
7.497E-01	- 9.163E-01	0	5	0.00	33.33	0.55	3.87
9.163E-01	- 1.083E+00	0	5	0.00	33.33	0.69	0.69
1.083E+00	- 1.250E+00	0	5	0.00	33.33	0.84	0.84
1.250E+00	- 1.416E+00	0	5	0.00	33.33	0.98	0.98
1.416E+00	- 1.583E+00	0	5	0.00	33.33	1.09	1.09
1.583E+00	- 1.750E+00	1	6	6.67	40.00	1.17	1.17
1.750E+00	- 1.916E+00	3	9	20.00	60.00	1.21	0.04
1.916E+00	- 2.083E+00	1	10	6.67	66.67	1.20	2.72
2.083E+00	- 2.250E+00	1	11	6.67	73.33	1.14	0.02
2.250E+00	- 2.416E+00	0	11	0.00	73.33	1.04	0.00
2.416E+00	- 2.583E+00	2	13	13.33	86.67	0.91	0.91
2.583E+00	- 2.750E+00	1	14	6.67	93.33	0.76	2.02
2.750E+00	- 2.916E+00	0	14	0.00	93.33	0.61	0.24
2.916E+00	- 3.083E+00	1	15	6.67	100.00	0.47	0.47
G		0	15	0.00	100.00	0.06	0.00
H		0	15			0.00	0.00
B		0	15			0.00	0.00

TOTALS LESS H AND B 15

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

4.638E+00 XXXXXXXXXX
 6.808E+00
 9.992E+00
 1.467E+01
 2.153E+01
 3.160E+01
 4.638E+01 XXXXXX
 6.808E+01 XXXXXXXXXXXXXXXXXXXX
 9.992E+01 XXXXXX
 1.457E+02 XXXXXX
 2.153E+02
 3.160E+02 XXXXXXXXXX
 4.638E+02 XXXXXX
 6.808E+02
 9.992E+02 XXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 1.10000E+03
 GEOMETRIC MEAN = 9.05944E+01

GEOMETRIC DEVIATION = 5.21647E+00
VARIANCE OF LOGS = 5.14630E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.666337E+00	4.638072E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

FREQUENCY TABLE FOR VARIABLE 37 (AA-ZN-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
9.160E-01 - 1.083E+00	2	2	13.33	13.33	0.84	0.84
1.083E+00 - 1.249E+00	0	2	0.00	13.33	0.38	6.80
1.249E+00 - 1.416E+00	1	3	6.67	20.00	0.50	0.50
1.416E+00 - 1.583E+00	1	4	6.67	26.67	0.63	0.21
1.583E+00 - 1.749E+00	1	5	6.67	33.33	0.77	0.07
1.749E+00 - 1.916E+00	0	5	0.00	33.33	0.90	0.01
1.916E+00 - 2.083E+00	2	7	13.33	46.67	1.02	1.02
2.083E+00 - 2.249E+00	1	8	6.67	53.33	1.10	0.73
2.249E+00 - 2.416E+00	1	9	6.67	60.00	1.15	0.02
2.416E+00 - 2.583E+00	0	9	0.00	60.00	1.16	0.02
2.583E+00 - 2.749E+00	1	10	6.67	66.67	1.12	1.12
2.749E+00 - 2.916E+00	0	10	0.00	66.67	1.05	0.00
2.916E+00 - 3.083E+00	0	10	0.00	66.67	0.94	0.94
3.083E+00 - 3.249E+00	1	11	6.67	73.33	0.82	0.82
3.249E+00 - 3.416E+00	1	12	6.67	80.00	0.68	0.15
G	3	15	20.00	100.00	1.93	0.45
H	0	15			0.84	5.50
B	0	15				

TOTALS LESS H AND B 15

HISTOGRAM FOR VARIABLE 37 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E+00 XXXXXXXXXXXXXXX
 1.466E+01
 2.151E+01 XXXXXXXX
 3.157E+01 XXXXXXX
 4.634E+01 XXXXXXX
 6.802E+01
 9.985E+01 XXXXXXXXXXXXXXX
 1.466E+02 XXXXXXX
 2.151E+02 XXXXXXX
 3.157E+02
 4.635E+02 XXXXXXX
 6.803E+02
 9.985E+02
 1.466E+03 XXXXXXX
 2.151E+03 XXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 1.80000E+03
 GEOMETRIC MEAN = 1.04998E+02

GEOMETRIC DEVIATION = 5.76843E+00
VARIANCE OF LOGS = 5.79209E-01

PERCENT TABLE FOR VARIABLE 37 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

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

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/20/84

Nevada data

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

LOG LIMITS LOWER	LOG LIMITS UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		3	3	20.00	20.00		
T		0	3	0.00	20.00	1.66	1.66
2.500E-01	- 4.167E-01	1	4	6.67	26.67	0.56	0.35
4.167E-01	- 5.833E-01	0	4	0.00	26.67	0.67	0.67
5.833E-01	- 7.500E-01	0	4	0.00	26.67	0.78	0.78
7.500E-01	- 9.167E-01	1	5	6.67	33.33	0.88	0.02
9.167E-01	- 1.083E+00	1	6	6.67	40.00	0.97	0.00
1.083E+00	- 1.250E+00	1	7	6.67	46.67	1.03	0.00
1.250E+00	- 1.417E+00	0	7	0.00	46.67	1.06	1.06
1.417E+00	- 1.583E+00	3	10	20.00	66.67	1.05	3.60
1.583E+00	- 1.750E+00	0	10	0.00	66.67	1.02	1.02
1.750E+00	- 1.917E+00	1	11	6.67	73.33	0.95	0.00
1.917E+00	- 2.083E+00	1	12	6.67	80.00	0.87	0.02
2.083E+00	- 2.250E+00	0	12	0.00	80.00	0.76	0.76
2.250E+00	- 2.417E+00	0	12	0.00	80.00	0.65	0.65
2.417E+00	- 2.583E+00	1	13	6.67	86.67	0.54	0.40
2.583E+00	- 2.750E+00	0	13	0.00	86.67	0.43	0.43
2.750E+00	- 2.917E+00	0	13	0.00	86.67	0.33	0.33
2.917E+00	- 3.083E+00	1	14	6.67	93.33	0.81	0.05
G		1	15	6.67	100.00	0.00	0.00
H		0	15				
B		0	15				

TOTALS LESS H AND B 15

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

2.154E+00 XXXXXX
 3.162E+00
 4.642E+00
 6.813E+00 XXXXXXXX
 1.000E+01 XXXXXXXX
 1.468E+01 XXXXXXXX
 2.154E+01
 3.162E+01 XXXXXXXXXXXXXXXXXXXX
 4.642E+01
 6.813E+01 XXXXXXXX
 1.000E+02 XXXXXXXX
 1.468E+02
 2.154E+02
 3.162E+02 XXXXXXXX
 4.642E+02
 6.813E+02
 1.000E+03 XXXXXXXX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 3.61266E+01
GEOMETRIC DEVIATION = 5.90369E+00
VARIANCE OF LOGS = 5.94632E-01

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

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.833338E+00	6.813002E+02
95.00	1.000000E+35	1.000000E+35
78.00	1.000000E+35	1.000000E+35

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****	OUTPUT ID	N	M
	-ds-1	-	177	36 1 0 1 1 0 0 0 0 0 0	-	36	36

NUMBER OF SELECTED COLUMNS 36

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36				

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FEX	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P				

NUMBER OF SELECTED ROW PAIRS 1

SELECTED ROW PAIRS
1- 177

PHASE TWO RESULTS

WARNING *** THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO D0096-FACTOR ANALYSIS.
THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES
WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

ARRAY OF MEANS -

	1 X-COORD.	2 Y-COORD.	3 S-FEX	4 S-MG%	5 S-CAX	6 S-TIX	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 X-COORD.	4.6804	4.6804	4.6804	4.6804	4.6804	4.6804	4.6804	4.6681	*****	*****
2 Y-COORD.	5.6139	5.6139	5.6139	5.6139	5.6139	5.6139	5.6139	5.6153	*****	*****
3 S-FEX	0.4620	0.4620	0.4620	0.4620	0.4620	0.4620	0.4620	0.4184	*****	*****
4 S-MG%	-0.0629	-0.0629	-0.0629	-0.0629	-0.0629	-0.0629	-0.0629	-0.0516	*****	*****
5 S-CAX	0.2104	0.2104	0.2104	0.2104	0.2104	0.2104	0.2104	0.2177	*****	*****
6 S-TIX	-0.4121	-0.4121	-0.4121	-0.4121	-0.4121	-0.4121	-0.4121	-0.5229	*****	*****
7 S-MN	2.7881	2.7881	2.7881	2.7881	2.7881	2.7881	2.7881	2.7477	*****	*****
8 S-AG	-0.1003	-0.1003	-0.1003	-0.1003	-0.1003	-0.1003	-0.1003	-0.1003	*****	*****
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.6441	1.6441	1.6441	1.6441	1.6441	1.6441	1.6441	1.5511	*****	*****
12 S-BA	2.7529	2.7529	2.7529	2.7529	2.7529	2.7529	2.7529	2.6250	*****	*****
13 S-BE	0.1307	0.1307	0.1307	0.1307	0.1307	0.1307	0.1307	0.3920	*****	*****
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.0928	1.1174	*****	*****
17 S-CR	1.6148	1.6148	1.6148	1.6148	1.6148	1.6148	1.6148	1.5663	*****	*****
18 S-CU	1.1681	1.1681	1.1681	1.1681	1.1681	1.1681	1.1681	1.3181	*****	*****
19 S-LA	1.6141	1.6141	1.6141	1.6141	1.6141	1.6141	1.6141	1.7741	*****	*****
20 S-MO	0.7979	0.7979	0.7979	0.7979	0.7979	0.7979	0.7979	0.7979	*****	*****
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	1.1541	1.1541	1.1541	1.1541	1.1541	1.1541	1.1541	1.1174	*****	*****
23 S-PB	1.4461	1.4461	1.4461	1.4461	1.4461	1.4461	1.4461	1.9584	*****	*****
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.8657	0.8657	0.8657	0.8657	0.8657	0.8657	0.8657	0.7964	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	2.4852	2.4852	2.4852	2.4852	2.4852	2.4852	2.4852	2.3010	*****	*****
28 S-V	1.6879	1.6879	1.6879	1.6879	1.6879	1.6879	1.6879	1.6990	*****	*****
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	1.3121	1.3121	1.3121	1.3121	1.3121	1.3121	1.3121	1.2594	*****	*****
31 S-ZN	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	*****	*****
32 S-ZR	2.2022	2.2022	2.2022	2.2022	2.2022	2.2022	2.2022	2.1761	*****	*****
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	0.9508	0.9508	0.9508	0.9508	0.9508	0.9508	0.9508	1.2500	*****	*****
35 AA-ZN-P	1.7341	1.7341	1.7341	1.7341	1.7341	1.7341	1.7341	1.9075	*****	*****
36 AA-SB-P	0.3287	0.3287	0.3287	0.3287	0.3287	0.3287	0.3287	0.3287	*****	*****

ARRAY OF MEANS - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	4.6804	4.6804	4.6804	*****	*****	4.6804	4.6804	4.6804	4.6804	4.6835
2 Y-COORD.	5.6139	5.6139	5.6139	*****	*****	5.6139	5.6139	5.6139	5.6139	5.6135
3 S-FEZ	0.4620	0.4620	0.4620	*****	*****	0.4620	0.4620	0.4620	0.4620	0.4369
4 S-MGX	-0.0629	-0.0629	-0.0629	*****	*****	-0.0629	-0.0629	-0.0629	-0.0629	-0.0896
5 S-CAZ	0.2104	0.2104	0.2104	*****	*****	0.2104	0.2104	0.2104	0.2104	0.1822
6 S-TIX	-0.4121	-0.4121	-0.4121	*****	*****	-0.4121	-0.4121	-0.4121	-0.4121	-0.4304
7 S-MN	2.7881	2.7881	2.7881	*****	*****	2.7881	2.7881	2.7881	2.7881	2.7720
8 S-AG	-0.1003	-0.1003	-0.1003	*****	*****	-0.1003	-0.1003	-0.1003	-0.1003	*****
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.6441	1.6441	1.6441	*****	*****	1.6441	1.6441	1.6441	1.6441	1.6124
12 S-BA	2.7529	2.7529	2.7529	*****	*****	2.7529	2.7529	2.7529	2.7529	2.7728
13 S-BE	0.1307	0.1307	0.1307	*****	*****	0.1307	0.1307	0.1307	0.1307	0.1467
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	1.0928	1.0928	1.0928	*****	*****	1.0928	1.0928	1.0928	1.0928	1.1174
17 S-CR	1.6148	1.6148	1.6148	*****	*****	1.6148	1.6148	1.6148	1.6148	1.5894
18 S-CU	1.1681	1.1681	1.1681	*****	*****	1.1681	1.1681	1.1681	1.1681	1.1572
19 S-LA	1.6141	1.6141	1.6141	*****	*****	1.6141	1.6141	1.6141	1.6141	1.5632
20 S-MO	0.7979	0.7979	0.7979	*****	*****	0.7979	0.7979	0.7979	0.7979	0.7979
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	1.1541	1.1541	1.1541	*****	*****	1.1541	1.1541	1.1541	1.1541	1.2177
23 S-PB	1.4461	1.4461	1.4461	*****	*****	1.4461	1.4461	1.4461	1.4461	1.4491
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.8657	0.8657	0.8657	*****	*****	0.8657	0.8657	0.8657	0.8657	0.8458
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	2.4852	2.4852	2.4852	*****	*****	2.4852	2.4852	2.4852	2.4852	2.4554
28 S-V	1.6879	1.6879	1.6879	*****	*****	1.6879	1.6879	1.6879	1.6879	1.6679
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	1.3121	1.3121	1.3121	*****	*****	1.3121	1.3121	1.3121	1.3121	1.2949
31 S-ZN	2.3010	2.3010	2.3010	*****	*****	2.3010	2.3010	2.3010	2.3010	*****
32 S-ZR	2.2022	2.2022	2.2022	*****	*****	2.2022	2.2022	2.2022	2.2022	2.2031
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	0.9508	0.9508	0.9508	*****	*****	0.9508	0.9508	0.9508	0.9508	0.9192
35 AA-ZH-P	1.7341	1.7341	1.7341	*****	*****	1.7341	1.7341	1.7341	1.7341	1.6964
36 AA-SB-P	0.3287	0.3287	0.3287	*****	*****	0.3287	0.3287	0.3287	0.3287	0.3010

ARRAY OF MEANS - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	*****	4.6804	4.6804	*****	4.6804	*****	4.6804	4.6804	*****	4.6804
2 Y-COORD.	*****	5.6139	5.6139	*****	5.6139	*****	5.6139	5.6139	*****	5.6139
3 S-FEX	*****	0.4620	0.4620	*****	0.4620	*****	0.4620	0.4620	*****	0.4620
4 S-MGX	*****	-0.0629	-0.0629	*****	-0.0629	*****	-0.0629	-0.0629	*****	-0.0629
5 S-CA%	*****	0.2104	0.2104	*****	0.2104	*****	0.2104	0.2104	*****	0.2104
6 S-TIX	*****	-0.4121	-0.4121	*****	-0.4121	*****	-0.4121	-0.4121	*****	-0.4121
7 S-MN	*****	2.7881	2.7881	*****	2.7881	*****	2.7881	2.7881	*****	2.7881
8 S-AG	*****	-0.1003	-0.1003	*****	-0.1003	*****	-0.1003	-0.1003	*****	-0.1003
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	*****	1.6441	1.6441	*****	1.6441	*****	1.6441	1.6441	*****	1.6441
12 S-BA	*****	2.7529	2.7529	*****	2.7529	*****	2.7529	2.7529	*****	2.7529
13 S-BE	*****	0.1307	0.1307	*****	0.1307	*****	0.1307	0.1307	*****	0.1307
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	*****	1.0928	1.0928	*****	1.0928	*****	1.0928	1.0928	*****	1.0928
17 S-CR	*****	1.6148	1.6148	*****	1.6148	*****	1.6148	1.6148	*****	1.6148
18 S-CU	*****	1.1681	1.1681	*****	1.1681	*****	1.1681	1.1681	*****	1.1681
19 S-LA	*****	1.6141	1.6141	*****	1.6141	*****	1.6141	1.6141	*****	1.6141
20 S-MO	*****	0.7979	0.7979	*****	0.7979	*****	0.7979	0.7979	*****	0.7979
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	*****	1.1541	1.1541	*****	1.1541	*****	1.1541	1.1541	*****	1.1541
23 S-PB	*****	1.4461	1.4461	*****	1.4461	*****	1.4461	1.4461	*****	1.4461
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	*****	0.8657	0.8657	*****	0.8657	*****	0.8657	0.8657	*****	0.8657
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	*****	2.4852	2.4852	*****	2.4852	*****	2.4852	2.4852	*****	2.4852
28 S-V	*****	1.6879	1.6879	*****	1.6879	*****	1.6879	1.6879	*****	1.6879
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	*****	1.3121	1.3121	*****	1.3121	*****	1.3121	1.3121	*****	1.3121
31 S-ZN	*****	2.3010	2.3010	*****	2.3010	*****	2.3010	2.3010	*****	2.3010
32 S-ZR	*****	2.2022	2.2022	*****	2.2022	*****	2.2022	2.2022	*****	2.2022
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	*****	0.9508	0.9508	*****	0.9508	*****	0.9508	0.9508	*****	0.9508
35 AA-ZN-P	*****	1.7341	1.7341	*****	1.7341	*****	1.7341	1.7341	*****	1.7341
36 AA-SB-P	*****	0.3287	0.3287	*****	0.3287	*****	0.3287	0.3287	*****	0.3287

ARRAY OF MEANS - CONT.

	31	32	33	34	35	36
	S-ZN	S-ZR	S-TH	AA-AS-P	AA-ZN-P	AA-SB-P
1 X-COORD.	4.6768	4.6804	*****	4.6787	4.6804	4.6838
2 Y-COORD.	5.6136	5.6139	*****	5.6141	5.6139	5.6136
3 S-FEZ	1.1761	0.4620	*****	0.4567	0.4620	0.4922
4 S-MGX	0.0000	-0.0629	*****	-0.0506	-0.0629	-0.0821
5 S-CAZ	0.1761	0.2104	*****	0.2193	0.2104	0.2273
6 S-TIX	-0.1549	-0.4121	*****	-0.4150	-0.4121	-0.3521
7 S-MN	3.1761	2.7881	*****	2.7847	2.7881	2.8277
8 S-AG	*****	-0.1003	*****	-0.1003	-0.1003	*****
9 S-AS	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****
11 S-B	1.6990	1.6441	*****	1.6268	1.6441	1.7270
12 S-BA	2.4771	2.7529	*****	2.7489	2.7529	2.7729
13 S-BE	0.0000	0.1307	*****	0.1262	0.1307	0.1283
14 S-BI	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****
16 S-CO	1.3010	1.0928	*****	1.0950	1.0928	1.1321
17 S-CR	1.8451	1.6148	*****	1.6212	1.6148	1.6718
18 S-CU	1.3010	1.1681	*****	1.1781	1.1681	1.1869
19 S-LA	2.0000	1.6141	*****	1.6044	1.6141	1.5913
20 S-MO	*****	0.7979	*****	0.7811	0.7979	0.7964
21 S-NB	*****	*****	*****	*****	*****	*****
22 S-NI	1.3010	1.1541	*****	1.1560	1.1541	1.2267
23 S-PB	1.0000	1.4461	*****	1.4493	1.4461	1.4610
24 S-SB	*****	*****	*****	*****	*****	*****
25 S-SC	1.1761	0.8657	*****	0.8667	0.8657	0.9181
26 S-SN	*****	*****	*****	*****	*****	*****
27 S-SR	2.1761	2.4852	*****	2.4896	2.4852	2.4979
28 S-SV	1.8451	1.6879	*****	1.6888	1.6879	1.7462
29 S-SW	*****	*****	*****	*****	*****	*****
30 S-Y	1.4771	1.3121	*****	1.3097	1.3121	1.3339
31 S-ZN	2.3010	2.3010	*****	2.3010	2.3010	*****
32 S-ZR	2.3010	2.2022	*****	2.1986	2.2022	2.2170
33 S-TH	*****	*****	*****	*****	*****	*****
34 AA-AS-P	0.6990	0.9508	*****	0.9508	0.9508	0.9874
35 AA-ZN-P	2.3979	1.7341	*****	1.7451	1.7341	1.7394
36 AA-SU-P	*****	0.3287	*****	0.3348	0.3287	0.3287

ARRAY OF VARIANCES -

	1 X-COORD.	2 Y-COORD.	3 S-FE%	4 S-MG%	5 S-CA%	6 S-TI%	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 X-COORD.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****	*****
2 Y-COORD.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****	*****
3 S-FE%	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	*****	*****
4 S-MG%	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	*****	*****
5 S-CA%	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	*****	*****
6 S-TI%	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	*****	*****
7 S-MN	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.007	*****
8 S-AG	0.121	0.121	0.121	0.121	0.121	0.121	0.121	0.121	*****	*****
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.016	*****	*****
12 S-BA	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.016	*****	*****
13 S-BE	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.075	*****	*****
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.010	*****	*****
17 S-CR	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.053	*****	*****
18 S-CU	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.023	*****	*****
19 S-LA	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.072	*****	*****
20 S-MO	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	*****	*****
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.010	*****	*****
23 S-PB	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.058	*****	*****
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.007	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.000	*****	*****
28 S-V	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.000	*****	*****
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.005	*****	*****
31 S-ZN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 S-ZR	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.000	*****	*****
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.016	*****	*****
35 AA-ZN-P	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.029	*****	*****
36 AA-Sb-P	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	*****	*****

ARRAY OF VARIANCES - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	0.000	0.000	0.000	*****	*****	0.000	0.000	0.000	0.000	0.000
2 Y-COORD.	0.000	0.000	0.000	*****	*****	0.000	0.000	0.000	0.000	0.000
3 S-FEZ	0.020	0.020	0.020	*****	*****	0.020	0.020	0.020	0.020	0.014
4 S-MGZ	0.010	0.010	0.010	*****	*****	0.010	0.010	0.010	0.010	0.010
5 S-CAZ	0.009	0.009	0.009	*****	*****	0.009	0.009	0.009	0.009	0.006
6 S-TIZ	0.018	0.018	0.018	*****	*****	0.018	0.018	0.018	0.018	0.013
7 S-MN	0.011	0.011	0.011	*****	*****	0.011	0.011	0.011	0.011	0.006
8 S-AG	0.121	0.121	0.121	*****	*****	0.121	0.121	0.121	0.121	*****
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.023	0.023	0.023	*****	*****	0.023	0.023	0.023	0.023	0.023
12 S-BA	0.010	0.010	0.010	*****	*****	0.010	0.010	0.010	0.010	0.010
13 S-BE	0.010	0.010	0.010	*****	*****	0.010	0.010	0.010	0.010	0.005
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	0.013	0.013	0.013	*****	*****	0.013	0.013	0.013	0.013	0.008
17 S-CR	0.038	0.038	0.038	*****	*****	0.038	0.038	0.038	0.038	0.031
18 S-CU	0.008	0.008	0.008	*****	*****	0.008	0.008	0.008	0.008	0.007
19 S-LA	0.029	0.029	0.029	*****	*****	0.029	0.029	0.029	0.029	0.018
20 S-MO	0.014	0.014	0.014	*****	*****	0.014	0.014	0.014	0.014	0.014
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	0.022	0.022	0.022	*****	*****	0.022	0.022	0.022	0.022	0.004
23 S-PB	0.032	0.032	0.032	*****	*****	0.032	0.032	0.032	0.032	0.023
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.009	0.009	0.009	*****	*****	0.009	0.009	0.009	0.009	0.004
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	0.016	0.016	0.016	*****	*****	0.016	0.016	0.016	0.016	0.020
28 S-V	0.015	0.015	0.015	*****	*****	0.015	0.015	0.015	0.015	0.016
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	0.009	0.009	0.009	*****	*****	0.009	0.009	0.009	0.009	0.006
31 S-ZN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 S-ZR	0.012	0.012	0.012	*****	*****	0.012	0.012	0.012	0.012	0.017
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	0.034	0.034	0.034	*****	*****	0.034	0.034	0.034	0.034	0.053
35 AA-ZN-P	0.018	0.018	0.018	*****	*****	0.018	0.018	0.018	0.018	0.009
36 AA-SB-P	0.010	0.010	0.010	*****	*****	0.010	0.010	0.010	0.010	0.000

ARRAY OF VARIANCES - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	*****	0.000	0.000	*****	0.000	*****	0.000	0.000	*****	0.000
2 Y-COORD.	*****	0.000	0.000	*****	0.000	*****	0.000	0.000	*****	0.000
3 S-FEZ	*****	0.020	0.020	*****	0.020	*****	0.020	0.020	*****	0.020
4 S-MGX	*****	0.010	0.010	*****	0.010	*****	0.010	0.010	*****	0.010
5 S-CAZ	*****	0.009	0.009	*****	0.009	*****	0.009	0.009	*****	0.009
6 S-TIZ	*****	0.018	0.018	*****	0.018	*****	0.018	0.018	*****	0.018
7 S-MN	*****	0.011	0.011	*****	0.011	*****	0.011	0.011	*****	0.011
8 S-AG	*****	0.121	0.121	*****	0.121	*****	0.121	0.121	*****	0.121
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	*****	0.023	0.023	*****	0.023	*****	0.023	0.023	*****	0.023
12 S-BA	*****	0.010	0.010	*****	0.010	*****	0.010	0.010	*****	0.010
13 S-BE	*****	0.010	0.010	*****	0.010	*****	0.010	0.010	*****	0.010
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	*****	0.013	0.013	*****	0.013	*****	0.013	0.013	*****	0.013
17 S-CR	*****	0.038	0.038	*****	0.038	*****	0.038	0.038	*****	0.038
18 S-CU	*****	0.008	0.008	*****	0.008	*****	0.008	0.008	*****	0.008
19 S-LA	*****	0.029	0.029	*****	0.029	*****	0.029	0.029	*****	0.029
20 S-MO	*****	0.014	0.014	*****	0.014	*****	0.014	0.014	*****	0.014
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	*****	0.022	0.022	*****	0.022	*****	0.022	0.022	*****	0.022
23 S-PB	*****	0.032	0.032	*****	0.032	*****	0.032	0.032	*****	0.032
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	*****	0.009	0.009	*****	0.009	*****	0.009	0.009	*****	0.009
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	*****	0.016	0.016	*****	0.016	*****	0.016	0.016	*****	0.016
28 S-V	*****	0.015	0.015	*****	0.015	*****	0.015	0.015	*****	0.015
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	*****	0.009	0.009	*****	0.009	*****	0.009	0.009	*****	0.009
31 S-ZN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 S-ZR	*****	0.012	0.012	*****	0.012	*****	0.012	0.012	*****	0.012
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AS-P	*****	0.034	0.034	*****	0.034	*****	0.034	0.034	*****	0.034
35 AA-Zn-P	*****	0.018	0.018	*****	0.018	*****	0.018	0.018	*****	0.018
36 AA-Su-P	*****	0.010	0.010	*****	0.010	*****	0.010	0.010	*****	0.010

ARRAY OF VARIANCES - CONT.

	31 S-ZN	32 S-ZR	33 S-TH	34 AA-AS-P	35 AA-ZN-P	36 AA-SB-P
1 X-COORD.	*****	0.000	*****	0.000	0.000	0.000
2 Y-COORD.	*****	0.000	*****	0.000	0.000	0.000
3 S-FEX	*****	0.020	*****	0.020	0.020	0.018
4 S-MG%	*****	0.010	*****	0.010	0.010	0.010
5 S-CA%	*****	0.009	*****	0.009	0.009	0.009
6 S-TIX	*****	0.018	*****	0.019	0.018	0.023
7 S-MN	*****	0.011	*****	0.011	0.011	0.010
8 S-AG	*****	0.121	*****	0.121	0.121	*****
9 S-AS	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****
11 S-B	*****	0.023	*****	0.020	0.023	0.015
12 S-BA	*****	0.010	*****	0.010	0.010	0.013
13 S-BE	*****	0.010	*****	0.011	0.010	0.008
14 S-BI	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	*****	*****	*****	*****
16 S-CO	*****	0.013	*****	0.013	0.013	0.012
17 S-CR	*****	0.038	*****	0.037	0.038	0.059
18 S-CU	*****	0.008	*****	0.007	0.008	0.007
19 S-LA	*****	0.029	*****	0.028	0.029	0.018
20 S-MO	*****	0.014	*****	0.012	0.014	0.007
21 S-NB	*****	*****	*****	*****	*****	*****
22 S-NI	*****	0.022	*****	0.023	0.022	0.045
23 S-PB	*****	0.032	*****	0.036	0.032	0.050
24 S-SB	*****	*****	*****	*****	*****	*****
25 S-SC	*****	0.009	*****	0.009	0.009	0.012
26 S-SN	*****	*****	*****	*****	*****	*****
27 S-SR	*****	0.016	*****	0.015	0.016	0.019
28 S-V	*****	0.015	*****	0.015	0.015	0.009
29 S-W	*****	*****	*****	*****	*****	*****
30 S-Y	*****	0.009	*****	0.009	0.009	0.006
31 S-ZN	*****	*****	*****	*****	*****	*****
32 S-ZR	*****	0.012	*****	0.013	0.012	0.008
33 S-TH	*****	*****	*****	*****	*****	*****
34 AA-AS-P	*****	0.034	*****	0.034	0.034	0.056
35 AA-ZN-P	*****	0.018	*****	0.016	0.018	0.014
36 AA-SB-P	*****	0.010	*****	0.012	0.010	0.010

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (X-COORD.)	2 (Y-COORD.)	-0.6929	177
1 (X-COORD.)	3 (S-FEZ)	0.0241	177
1 (X-COORD.)	4 (S-MGZ)	-0.2066	177
1 (X-COORD.)	5 (S-CAZ)	-0.1195	177
1 (X-COORD.)	6 (S-TIZ)	0.1660	177
1 (X-COORD.)	7 (S-MN)	0.2550	177
1 (X-COORD.)	8 (S-AG)	-0.3135	3
1 (X-COORD.)	9 (S-AS)	*****	0
1 (X-COORD.)	10 (S-AU)	*****	0
1 (X-COORD.)	11 (S-B)	0.2693	177
1 (X-COORD.)	12 (S-BA)	0.2401	177
1 (X-COORD.)	13 (S-BE)	-0.1014	177
1 (X-COORD.)	14 (S-BI)	*****	0
1 (X-COORD.)	15 (S-CD)	*****	0
1 (X-COORD.)	16 (S-CO)	-0.1294	177
1 (X-COORD.)	17 (S-CR)	-0.0484	177
1 (X-COORD.)	18 (S-CU)	-0.2115	177
1 (X-COORD.)	19 (S-LA)	0.1260	177
1 (X-COORD.)	20 (S-MO)	-0.1298	12
1 (X-COORD.)	21 (S-NB)	*****	0
1 (X-COORD.)	22 (S-NI)	-0.1184	177
1 (X-COORD.)	23 (S-PB)	-0.1150	177
1 (X-COORD.)	24 (S-SB)	*****	0
1 (X-COORD.)	25 (S-SC)	0.0096	177
1 (X-COORD.)	26 (S-SN)	*****	0
1 (X-COORD.)	27 (S-SR)	-0.1106	177
1 (X-COORD.)	28 (S-V)	-0.0856	177
1 (X-COORD.)	29 (S-w)	*****	0
1 (X-COORD.)	30 (S-Y)	0.1862	177
1 (X-COORD.)	31 (S-ZN)	*****	1
1 (X-COORD.)	32 (S-ZR)	-0.0228	177
1 (X-COORD.)	33 (S-TH)	*****	0
1 (X-COORD.)	34 (AA-AS-P)	-0.2444	153
1 (X-COORD.)	35 (AA-ZN-P)	-0.1780	177
1 (X-COORD.)	36 (AA-SB-P)	-0.0049	39
2 (Y-COORD.)	3 (S-FEZ)	-0.1196	177
2 (Y-COORD.)	4 (S-MGZ)	-0.0896	177
2 (Y-COORD.)	5 (S-CAZ)	-0.1654	177
2 (Y-COORD.)	6 (S-TIZ)	-0.3369	177
2 (Y-COORD.)	7 (S-MN)	-0.2939	177
2 (Y-COORD.)	8 (S-AG)	0.8534	3
2 (Y-COORD.)	9 (S-AS)	*****	0
2 (Y-COORD.)	10 (S-AU)	*****	0
2 (Y-COORD.)	11 (S-B)	-0.2131	177
2 (Y-COORD.)	12 (S-BA)	-0.2987	177
2 (Y-COORD.)	13 (S-BE)	0.2651	177
2 (Y-COORD.)	14 (S-BI)	*****	0
2 (Y-COORD.)	15 (S-CD)	*****	0
2 (Y-COORD.)	16 (S-CO)	-0.1316	177
2 (Y-COORD.)	17 (S-CR)	-0.0398	177

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
11 (S-B	)	37 (AA-ZN-P)	0.1321	9
11 (S-B	)	38 (AA-SB-P)	0.3288	8
12 (S-BA	)	13 (S-BE)	0.0912	7
12 (S-BA	)	14 (S-BI)	*****	0
12 (S-BA	)	15 (S-CO)	0.8576	4
12 (S-BA	)	16 (S-CO)	0.0115	4
12 (S-BA	)	17 (S-CR)	1.0000	2
12 (S-BA	)	18 (S-CU)	-0.6549	9
12 (S-BA	)	19 (S-LA)	*****	2
12 (S-BA	)	20 (S-MO)	0.7902	5
12 (S-BA	)	21 (S-NB)	*****	0
12 (S-BA	)	22 (S-NI)	1.0000	2
12 (S-BA	)	23 (S-PB)	-0.7944	9
12 (S-BA	)	24 (S-SB)	0.9909	3
12 (S-BA	)	25 (S-SC)	*****	1
12 (S-BA	)	26 (S-SN)	*****	0
12 (S-BA	)	27 (S-SR)	-0.5564	5
12 (S-BA	)	28 (S-V)	-0.2572	7
12 (S-BA	)	29 (S-W)	*****	1
12 (S-BA	)	30 (S-Y)	*****	2
12 (S-BA	)	31 (S-ZN)	-0.0019	5
12 (S-BA	)	32 (S-ZR)	0.2702	7
12 (S-BA	)	33 (S-TH)	*****	0
12 (S-BA	)	34 (AA-AU-P)	-0.4146	6
12 (S-BA	)	35 (INST-HG)	-0.4578	6
12 (S-BA	)	36 (AA-AS-P)	0.2755	6
12 (S-BA	)	37 (AA-ZN-P)	-0.8109	8
12 (S-BA	)	38 (AA-SB-P)	-0.5582	5
13 (S-BE	)	14 (S-BI)	*****	1
13 (S-BE	)	15 (S-CO)	0.1376	4
13 (S-BE	)	16 (S-CO)	0.4791	5
13 (S-BE	)	17 (S-CR)	*****	1
13 (S-BE	)	18 (S-CU)	-0.3386	9
13 (S-BE	)	19 (S-LA)	*****	2
13 (S-BE	)	20 (S-MO)	0.6350	6
13 (S-BE	)	21 (S-NB)	*****	0
13 (S-BE	)	22 (S-NI)	*****	3
13 (S-BE	)	23 (S-PB)	-0.1229	11
13 (S-BE	)	24 (S-SB)	0.7830	3
13 (S-BE	)	25 (S-SC)	*****	0
13 (S-BE	)	26 (S-SN)	*****	0
13 (S-BE	)	27 (S-SR)	-0.7713	5
13 (S-BE	)	28 (S-V)	0.0822	8
13 (S-BE	)	29 (S-W)	*****	1
13 (S-BE	)	30 (S-Y)	*****	1
13 (S-BE	)	31 (S-ZN)	0.2772	5
13 (S-BE	)	32 (S-ZR)	0.2166	9
13 (S-BE	)	33 (S-TH)	*****	0
13 (S-BE	)	34 (AA-AU-P)	0.2713	8
13 (S-BE	)	35 (INST-HG)	0.6013	8

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
13 (S-BE)	36 (AA-AS-P)	0.3546	9
13 (S-BE)	37 (AA-ZN-P)	0.1161	9
13 (S-BE)	38 (AA-SB-P)	-0.3495	8
14 (S-BI)	15 (S-CD)	*****	0
14 (S-BI)	16 (S-CO)	*****	1
14 (S-BI)	17 (S-CR)	*****	0
14 (S-BI)	18 (S-CU)	*****	1
14 (S-BI)	19 (S-LA)	*****	0
14 (S-BI)	20 (S-MO)	*****	1
14 (S-BI)	21 (S-NB)	*****	0
14 (S-BI)	22 (S-NI)	*****	1
14 (S-BI)	23 (S-PB)	*****	1
14 (S-BI)	24 (S-SB)	*****	0
14 (S-BI)	25 (S-SC)	*****	0
14 (S-BI)	26 (S-SN)	*****	0
14 (S-BI)	27 (S-SR)	*****	1
14 (S-BI)	28 (S-V)	*****	1
14 (S-BI)	29 (S-W)	*****	0
14 (S-BI)	30 (S-Y)	*****	0
14 (S-BI)	31 (S-ZN)	*****	0
14 (S-BI)	32 (S-ZR)	*****	1
14 (S-BI)	33 (S-TH)	*****	0
14 (S-BI)	34 (AA-AU-P)	*****	1
14 (S-BI)	35 (INST-HG)	*****	1
14 (S-BI)	36 (AA-AS-P)	*****	1
14 (S-BI)	37 (AA-ZN-P)	*****	1
14 (S-BI)	38 (AA-SB-P)	*****	1
15 (S-CD)	16 (S-CO)	0.3171	3
15 (S-CD)	17 (S-CR)	*****	0
15 (S-CD)	18 (S-CU)	-0.2812	5
15 (S-CD)	19 (S-LA)	*****	0
15 (S-CD)	20 (S-MO)	-0.1058	5
15 (S-CD)	21 (S-NB)	*****	0
15 (S-CD)	22 (S-NI)	*****	1
15 (S-CD)	23 (S-PB)	0.2218	5
15 (S-CD)	24 (S-SB)	-0.0663	4
15 (S-CD)	25 (S-SC)	*****	0
15 (S-CD)	26 (S-SN)	*****	0
15 (S-CD)	27 (S-SR)	-0.8008	4
15 (S-CD)	28 (S-V)	-0.8030	3
15 (S-CD)	29 (S-W)	*****	1
15 (S-CD)	30 (S-Y)	*****	1
15 (S-CD)	31 (S-ZN)	0.8646	5
15 (S-CD)	32 (S-ZR)	-0.0798	3
15 (S-CD)	33 (S-TH)	*****	0
15 (S-CD)	34 (AA-AU-P)	0.7262	5
15 (S-CD)	35 (INST-HG)	-0.7396	5
15 (S-CD)	36 (AA-AS-P)	0.1858	5
15 (S-CD)	37 (AA-ZN-P)	0.6096	3
15 (S-CD)	38 (AA-SB-P)	-0.0430	4

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
16 (S-CO )	)	17 (S-CR)	*****	1
16 (S-CO )	)	18 (S-CU)	0.0676	6
16 (S-CO )	)	19 (S-LA)	*****	1
16 (S-CO )	)	20 (S-MO)	0.1724	4
16 (S-CO )	)	21 (S-NB)	*****	0
16 (S-CO )	)	22 (S-NI)	0.9982	3
16 (S-CO )	)	23 (S-PB)	-0.2670	6
16 (S-CO )	)	24 (S-SB)	-1.0000	2
16 (S-CO )	)	25 (S-SC)	*****	1
16 (S-CO )	)	26 (S-SN)	*****	0
16 (S-CO )	)	27 (S-SR)	-0.3676	6
16 (S-CO )	)	28 (S-V)	0.4443	6
16 (S-CO )	)	29 (S-W)	*****	1
16 (S-CO )	)	30 (S-Y)	*****	1
16 (S-CO )	)	31 (S-ZN)	0.7737	3
16 (S-CO )	)	32 (S-ZR)	-0.1640	5
16 (S-CO )	)	33 (S-TH)	*****	0
16 (S-CO )	)	34 (AA-AU-P)	-0.1963	4
16 (S-CO )	)	35 (INST-HG)	-0.1344	4
16 (S-CO )	)	36 (AA-AS-P)	0.4639	4
16 (S-CO )	)	37 (AA-ZN-P)	-0.2280	4
16 (S-CO )	)	38 (AA-SB-P)	-0.5026	4
17 (S-CR )	)	18 (S-CU)	-1.0000	2
17 (S-CR )	)	19 (S-LA)	*****	0
17 (S-CR )	)	20 (S-MO)	*****	1
17 (S-CR )	)	21 (S-NB)	*****	0
17 (S-CR )	)	22 (S-NI)	1.0000	2
17 (S-CR )	)	23 (S-Pb)	-1.0000	2
17 (S-CR )	)	24 (S-SB)	*****	0
17 (S-CR )	)	25 (S-SC)	*****	1
17 (S-CR )	)	26 (S-SN)	*****	0
17 (S-CR )	)	27 (S-SR)	*****	1
17 (S-CR )	)	28 (S-V)	1.0000	2
17 (S-CR )	)	29 (S-W)	*****	0
17 (S-CR )	)	30 (S-Y)	*****	1
17 (S-CR )	)	31 (S-ZN)	*****	1
17 (S-CR )	)	32 (S-ZR)	1.0000	2
17 (S-CR )	)	33 (S-TH)	*****	0
17 (S-CR )	)	34 (AA-AU-P)	*****	1
17 (S-CR )	)	35 (INST-HG)	*****	1
17 (S-CR )	)	36 (AA-AS-P)	*****	1
17 (S-CR )	)	37 (AA-ZN-P)	-1.0000	2
17 (S-CR )	)	38 (AA-SB-P)	*****	1
18 (S-CU )	)	19 (S-LA)	*****	3
18 (S-CU )	)	20 (S-MO)	-0.2801	8
18 (S-CU )	)	21 (S-NB)	*****	0
18 (S-CU )	)	22 (S-NI)	-0.5332	5
18 (S-CU )	)	23 (S-PB)	0.7097	12
18 (S-CU )	)	24 (S-SB)	-0.4179	5
18 (S-CU )	)	25 (S-SC)	*****	1

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
18 (S-CU )	) 26 (S-SN )	) *****	1	
18 (S-CU )	) 27 (S-SR )	) 0.2892	8	
18 (S-CU )	) 28 (S-V )	) 0.0605	9	
18 (S-CU )	) 29 (S-W )	) *****	1	
18 (S-CU )	) 30 (S-Y )	) *****	2	
18 (S-CU )	) 31 (S-ZN )	) 0.2910	7	
18 (S-CU )	) 32 (S-ZR )	) -0.6335	9	
18 (S-CU )	) 33 (S-TH )	) *****	0	
18 (S-CU )	) 34 (AA-AU-P )	) 0.7290	9	
18 (S-CU )	) 35 (INST-HG )	) 0.1537	8	
18 (S-CU )	) 36 (AA-AS-P )	) -0.5706	10	
18 (S-CU )	) 37 (AA-ZN-P )	) 0.6947	10	
18 (S-CU )	) 38 (AA-SB-P )	) -0.1345	9	
19 (S-LA )	) 20 (S-MO )	) *****	0	
19 (S-LA )	) 21 (S-NB )	) *****	0	
19 (S-LA )	) 22 (S-NI )	) *****	0	
19 (S-LA )	) 23 (S-PB )	) *****	3	
19 (S-LA )	) 24 (S-SB )	) *****	0	
19 (S-LA )	) 25 (S-SC )	) *****	0	
19 (S-LA )	) 26 (S-SN )	) *****	0	
19 (S-LA )	) 27 (S-SR )	) *****	1	
19 (S-LA )	) 28 (S-V )	) *****	2	
19 (S-LA )	) 29 (S-W )	) *****	0	
19 (S-LA )	) 30 (S-Y )	) *****	0	
19 (S-LA )	) 31 (S-ZN )	) *****	1	
19 (S-LA )	) 32 (S-ZR )	) *****	2	
19 (S-LA )	) 33 (S-TH )	) *****	0	
19 (S-LA )	) 34 (AA-AU-P )	) *****	1	
19 (S-LA )	) 35 (INST-HG )	) *****	0	
19 (S-LA )	) 36 (AA-AS-P )	) *****	2	
19 (S-LA )	) 37 (AA-ZN-P )	) *****	3	
19 (S-LA )	) 38 (AA-SB-P )	) *****	2	
20 (S-MO )	) 21 (S-NB )	) *****	0	
20 (S-MO )	) 22 (S-NI )	) -0.6344	4	
20 (S-MO )	) 23 (S-PB )	) -0.5268	7	
20 (S-MO )	) 24 (S-SB )	) 0.8050	5	
20 (S-MO )	) 25 (S-SC )	) *****	0	
20 (S-MO )	) 26 (S-SN )	) *****	1	
20 (S-MO )	) 27 (S-SR )	) -0.3081	6	
20 (S-MO )	) 28 (S-V )	) 0.6896	5	
20 (S-MO )	) 29 (S-W )	) *****	1	
20 (S-MO )	) 30 (S-Y )	) *****	1	
20 (S-MO )	) 31 (S-ZN )	) 0.1546	6	
20 (S-MO )	) 32 (S-ZR )	) 0.3449	5	
20 (S-MO )	) 33 (S-TH )	) *****	0	
20 (S-MO )	) 34 (AA-AU-P )	) -0.4104	7	
20 (S-MO )	) 35 (INST-HG )	) 0.3263	7	
20 (S-MO )	) 36 (AA-AS-P )	) 0.0112	8	
20 (S-MO )	) 37 (AA-ZN-P )	) -0.1626	5	
20 (S-MO )	) 38 (AA-SB-P )	) -0.5089	7	

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
21 (S-NB )	) 22 (S-NI )	)	*****	0
21 (S-NB )	) 23 (S-PB )	)	*****	0
21 (S-NB )	) 24 (S-SB )	)	*****	0
21 (S-NB )	) 25 (S-SC )	)	*****	0
21 (S-NB )	) 26 (S-SN )	)	*****	0
21 (S-NB )	) 27 (S-SR )	)	*****	0
21 (S-NB )	) 28 (S-V )	)	*****	0
21 (S-NB )	) 29 (S-W )	)	*****	0
21 (S-NB )	) 30 (S-Y )	)	*****	0
21 (S-NB )	) 31 (S-ZN )	)	*****	0
21 (S-NB )	) 32 (S-ZR )	)	*****	0
21 (S-NB )	) 33 (S-TH )	)	*****	0
21 (S-NB )	) 34 (AA-AU-P )	)	*****	0
21 (S-NB )	) 35 (INST-HG )	)	*****	0
21 (S-NB )	) 36 (AA-AS-P )	)	*****	0
21 (S-NB )	) 37 (AA-ZN-P )	)	*****	0
21 (S-NB )	) 38 (AA-SB-P )	)	*****	0
22 (S-NI )	) 23 (S-PB )	)	-0.6393	4
22 (S-NI )	) 24 (S-SB )	)	-1.0000	2
22 (S-NI )	) 25 (S-SC )	)	*****	1
22 (S-NI )	) 26 (S-SN )	)	*****	1
22 (S-NI )	) 27 (S-SR )	)	0.2968	4
22 (S-NI )	) 28 (S-V )	)	0.5821	4
22 (S-NI )	) 29 (S-W )	)	*****	0
22 (S-NI )	) 30 (S-Y )	)	*****	1
22 (S-NI )	) 31 (S-ZN )	)	1.0000	2
22 (S-NI )	) 32 (S-ZR )	)	0.2425	4
22 (S-NI )	) 33 (S-TH )	)	*****	0
22 (S-NI )	) 34 (AA-AU-P )	)	0.7652	3
22 (S-NI )	) 35 (INST-HG )	)	0.0007	3
22 (S-NI )	) 36 (AA-AS-P )	)	0.2950	4
22 (S-NI )	) 37 (AA-ZN-P )	)	-0.9172	3
22 (S-NI )	) 38 (AA-SB-P )	)	0.0921	4
23 (S-PB )	) 24 (S-SB )	)	-0.6479	4
23 (S-PB )	) 25 (S-SC )	)	*****	1
23 (S-PB )	) 26 (S-SN )	)	*****	0
23 (S-PB )	) 27 (S-SR )	)	0.3343	7
23 (S-PB )	) 28 (S-V )	)	-0.1478	9
23 (S-PB )	) 29 (S-W )	)	*****	1
23 (S-PB )	) 30 (S-Y )	)	*****	2
23 (S-PB )	) 31 (S-ZN )	)	0.5151	7
23 (S-PB )	) 32 (S-ZR )	)	-0.4684	10
23 (S-PB )	) 33 (S-TH )	)	*****	0
23 (S-PB )	) 34 (AA-AU-P )	)	0.6656	10
23 (S-PB )	) 35 (INST-HG )	)	0.6150	9
23 (S-PB )	) 36 (AA-AS-P )	)	-0.0488	11
23 (S-PB )	) 37 (AA-ZN-P )	)	0.9144	12
23 (S-PB )	) 38 (AA-SB-P )	)	0.4539	10
24 (S-SB )	) 25 (S-SC )	)	*****	0
24 (S-SB )	) 26 (S-SN )	)	*****	1

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
24 (S-SB)	27 (S-SR )	)	-0.0396	4
24 (S-SB)	28 (S-V )	)	1.0000	2
24 (S-SB)	29 (S-W )	)	*****	0
24 (S-SB)	30 (S-Y )	)	*****	1
24 (S-SB)	31 (S-ZN )	)	-0.1797	4
24 (S-SB)	32 (S-ZR )	)	1.0000	2
24 (S-SB)	33 (S-TH )	)	*****	0
24 (S-SB)	34 (AA-AU-P )	)	0.0991	4
24 (S-SB)	35 (INST-HG )	)	0.6438	4
24 (S-SB)	36 (AA-AS-P )	)	0.9183	5
24 (S-SB)	37 (AA-ZN-P )	)	0.2381	3
24 (S-SB)	38 (AA-SB-P )	)	0.9961	4
25 (S-SC)	26 (S-SN )	)	*****	0
25 (S-SC)	27 (S-SR )	)	*****	1
25 (S-SC)	28 (S-V )	)	*****	1
25 (S-SC)	29 (S-W )	)	*****	0
25 (S-SC)	30 (S-Y )	)	*****	1
25 (S-SC)	31 (S-ZN )	)	*****	0
25 (S-SC)	32 (S-ZR )	)	*****	1
25 (S-SC)	33 (S-TH )	)	*****	0
25 (S-SC)	34 (AA-AU-P )	)	*****	0
25 (S-SC)	35 (INST-HG )	)	*****	0
25 (S-SC)	36 (AA-AS-P )	)	*****	0
25 (S-SC)	37 (AA-ZN-P )	)	*****	1
25 (S-SC)	38 (AA-SB-P )	)	*****	0
26 (S-SN)	27 (S-SR )	)	*****	1
26 (S-SN)	28 (S-V )	)	*****	0
26 (S-SN)	29 (S-W )	)	*****	0
26 (S-SN)	30 (S-Y )	)	*****	0
26 (S-SN)	31 (S-ZN )	)	*****	0
26 (S-SN)	32 (S-ZR )	)	*****	0
26 (S-SN)	33 (S-TH )	)	*****	0
26 (S-SN)	34 (AA-AU-P )	)	*****	0
26 (S-SN)	35 (INST-HG )	)	*****	0
26 (S-SN)	36 (AA-AS-P )	)	*****	1
26 (S-SN)	37 (AA-ZN-P )	)	*****	0
26 (S-SN)	38 (AA-SB-P )	)	*****	1
27 (S-SR)	28 (S-V )	)	0.1988	6
27 (S-SR)	29 (S-W )	)	*****	1
27 (S-SR)	30 (S-Y )	)	*****	1
27 (S-SR)	31 (S-ZN )	)	-0.9675	4
27 (S-SR)	32 (S-ZR )	)	0.5953	5
27 (S-SR)	33 (S-TH )	)	*****	0
27 (S-SR)	34 (AA-AU-P )	)	-0.0487	5
27 (S-SR)	35 (INST-HG )	)	0.7857	5
27 (S-SR)	36 (AA-AS-P )	)	0.0719	6
27 (S-SR)	37 (AA-ZN-P )	)	0.6640	5
27 (S-SR)	38 (AA-SB-P )	)	0.3788	6
28 (S-V)	29 (S-W )	)	*****	1
28 (S-V)	30 (S-Y )	)	*****	1

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
28 (S-V )	)	31 (S-ZN)	-0.0540	4
28 (S-V )	)	32 (S-ZR)	-0.0287	8
28 (S-V )	)	33 (S-TH)	*****	0
28 (S-V )	)	34 (AA-AU-P)	-0.1843	6
28 (S-V )	)	35 (INST-HG)	0.5910	6
28 (S-V )	)	36 (AA-AS-P)	-0.0710	6
28 (S-V )	)	37 (AA-ZN-P)	-0.0492	7
28 (S-V )	)	38 (AA-SB-P)	-0.2690	6
29 (S-W )	)	30 (S-Y)	*****	0
29 (S-W )	)	31 (S-ZN)	*****	1
29 (S-W )	)	32 (S-ZR)	*****	1
29 (S-W )	)	33 (S-TH)	*****	0
29 (S-W )	)	34 (AA-AU-P)	*****	1
29 (S-W )	)	35 (INST-HG)	*****	1
29 (S-W )	)	36 (AA-AS-P)	*****	1
29 (S-W )	)	37 (AA-ZN-P)	*****	0
29 (S-W )	)	38 (AA-SB-P)	*****	1
30 (S-Y )	)	31 (S-ZN)	*****	1
30 (S-Y )	)	32 (S-ZR)	*****	2
30 (S-Y )	)	33 (S-TH)	*****	0
30 (S-Y )	)	34 (AA-AU-P)	*****	1
30 (S-Y )	)	35 (INST-HG)	*****	1
30 (S-Y )	)	36 (AA-AS-P)	*****	1
30 (S-Y )	)	37 (AA-ZN-P)	*****	2
30 (S-Y )	)	38 (AA-SB-P)	*****	0
31 (S-ZN )	)	32 (S-ZR)	-0.7198	4
31 (S-ZN )	)	33 (S-TH)	*****	0
31 (S-ZN )	)	34 (AA-AU-P)	0.0353	7
31 (S-ZN )	)	35 (INST-HG)	0.4333	6
31 (S-ZN )	)	36 (AA-AS-P)	0.3226	7
31 (S-ZN )	)	37 (AA-ZN-P)	0.9518	5
31 (S-ZN )	)	38 (AA-SB-P)	0.3855	6
32 (S-ZR )	)	33 (S-TH)	*****	0
32 (S-ZR )	)	34 (AA-AU-P)	-0.2143	6
32 (S-ZR )	)	35 (INST-HG)	-0.1926	6
32 (S-ZR )	)	36 (AA-AS-P)	0.0025	7
32 (S-ZR )	)	37 (AA-ZN-P)	0.2340	8
32 (S-ZR )	)	38 (AA-SB-P)	-0.2193	6
33 (S-TH )	)	34 (AA-AU-P)	*****	0
33 (S-TH )	)	35 (INST-HG)	*****	0
33 (S-TH )	)	36 (AA-AS-P)	*****	0
33 (S-TH )	)	37 (AA-ZN-P)	*****	0
33 (S-TH )	)	38 (AA-SB-P)	*****	0
34 (AA-AU-P )	)	35 (INST-HG)	0.4583	9
34 (AA-AU-P )	)	36 (AA-AS-P)	-0.4589	9
34 (AA-AU-P )	)	37 (AA-ZN-P)	0.5689	8
34 (AA-AU-P )	)	38 (AA-SB-P)	-0.0222	8
35 (INST-HG )	)	36 (AA-AS-P)	-0.0467	8
35 (INST-HG )	)	37 (AA-ZN-P)	0.7978	7
35 (INST-HG )	)	38 (AA-SB-P)	0.3030	7

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
36 (AA-AS-P)	37 (AA-ZN-P)		-0.0031	9
36 (AA-AS-P)	38 (AA-SB-P)		0.4264	11
37 (AA-ZN-P)	38 (AA-SB-P)		0.4239	8

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (Y-COORD.)	16 (S-CO )	)	-0.6334	6
2 (Y-COORD.)	17 (S-CR )	)	-1.0000	2
2 (Y-COORD.)	18 (S-CU )	)	-0.0356	13
2 (Y-COORD.)	19 (S-LA )	)	*****	3
2 (Y-COORD.)	20 (S-MO )	)	0.1861	8
2 (Y-COORD.)	21 (S-NB )	)	*****	0
2 (Y-COORD.)	22 (S-NI )	)	-0.9336	5
2 (Y-COORD.)	23 (S-PB )	)	0.1839	14
2 (Y-COORD.)	24 (S-SB )	)	0.4725	5
2 (Y-COORD.)	25 (S-SC )	)	*****	1
2 (Y-COORD.)	26 (S-SN )	)	*****	1
2 (Y-COORD.)	27 (S-SR )	)	-0.1319	8
2 (Y-COORD.)	28 (S-V )	)	0.0048	9
2 (Y-COORD.)	29 (S-W )	)	*****	1
2 (Y-COORD.)	30 (S-Y )	)	*****	2
2 (Y-COORD.)	31 (S-ZN )	)	-0.5484	7
2 (Y-COORD.)	32 (S-ZR )	)	0.1094	10
2 (Y-COORD.)	33 (S-TH )	)	*****	0
2 (Y-COORD.)	34 (AA-AU-P )	)	-0.1899	10
2 (Y-COORD.)	35 (INST-HG )	)	-0.6593	9
2 (Y-COORD.)	36 (AA-AS-P )	)	-0.3022	12
2 (Y-COORD.)	37 (AA-ZN-P )	)	0.0261	12
2 (Y-COORD.)	38 (AA-SB-P )	)	0.1172	11
3 (S-FEZ)	4 (S-MGX )	)	0.1556	12
3 (S-FEZ)	5 (S-CAZ )	)	0.0642	12
3 (S-FEZ)	6 (S-TIZ )	)	0.4130	14
3 (S-FEZ)	7 (S-MN )	)	0.5720	13
3 (S-FEZ)	8 (S-AG )	)	0.2692	11
3 (S-FEZ)	9 (S-AS )	)	0.4288	5
3 (S-FEZ)	10 (S-AU )	)	*****	0
3 (S-FEZ)	11 (S-B )	)	0.1339	12
3 (S-FEZ)	12 (S-BA )	)	0.0289	9
3 (S-FEZ)	13 (S-BE )	)	0.5713	11
3 (S-FEZ)	14 (S-BI )	)	*****	1
3 (S-FEZ)	15 (S-CD )	)	0.5283	5
3 (S-FEZ)	16 (S-CO )	)	0.8787	6
3 (S-FEZ)	17 (S-CR )	)	*****	2
3 (S-FEZ)	18 (S-CU )	)	0.2042	13
3 (S-FEZ)	19 (S-LA )	)	*****	3
3 (S-FEZ)	20 (S-MO )	)	0.4172	8
3 (S-FEZ)	21 (S-NB )	)	*****	0
3 (S-FEZ)	22 (S-NI )	)	0.6212	5
3 (S-FEZ)	23 (S-PB )	)	0.1653	14
3 (S-FEZ)	24 (S-SB )	)	0.6900	5
3 (S-FEZ)	25 (S-SC )	)	*****	1
3 (S-FEZ)	26 (S-SN )	)	*****	1
3 (S-FEZ)	27 (S-SR )	)	-0.5455	8
3 (S-FEZ)	28 (S-V )	)	0.2184	9
3 (S-FEZ)	29 (S-W )	)	*****	1
3 (S-FEZ)	30 (S-Y )	)	*****	2

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3 (S-FEZ)	31 (S-ZN )	) 0.2884	7	
3 (S-FEZ)	32 (S-ZR )	) 0.0964	10	
3 (S-FEZ)	33 (S-TH)	*****	0	
3 (S-FEZ)	34 (AA-AU-P)	0.7112	10	
3 (S-FEZ)	35 (INST-HG)	0.3313	9	
3 (S-FEZ)	36 (AA-AS-P)	0.0399	12	
3 (S-FEZ)	37 (AA-ZN-P)	0.1977	12	
3 (S-FEZ)	38 (AA-Sb-P)	-0.1934	11	
4 (S-MG%)	5 (S-CA%)	0.7777	12	
4 (S-MG%)	6 (S-TI%)	-0.1009	12	
4 (S-MG%)	7 (S-MN)	0.7853	12	
4 (S-MG%)	8 (S-AG)	0.1098	9	
4 (S-MG%)	9 (S-AS)	-0.9378	3	
4 (S-MG%)	10 (S-AU)	*****	0	
4 (S-MG%)	11 (S-B)	0.0400	11	
4 (S-MG%)	12 (S-BA)	0.1660	9	
4 (S-MG%)	13 (S-BE)	0.1581	9	
4 (S-MG%)	14 (S-BI)	*****	1	
4 (S-MG%)	15 (S-CD)	0.5105	5	
4 (S-MG%)	16 (S-CG)	0.9110	6	
4 (S-MG%)	17 (S-CR)	1.0000	2	
4 (S-MG%)	18 (S-CU)	0.0423	12	
4 (S-MG%)	19 (S-LA)	*****	2	
4 (S-MG%)	20 (S-MG)	-0.1500	8	
4 (S-MG%)	21 (S-NB)	*****	0	
4 (S-MG%)	22 (S-NI)	0.6635	5	
4 (S-MG%)	23 (S-PB)	-0.1793	11	
4 (S-MG%)	24 (S-SB)	0.2864	5	
4 (S-MG%)	25 (S-SC)	*****	1	
4 (S-MG%)	26 (S-SN)	*****	1	
4 (S-MG%)	27 (S-SR)	-0.5220	8	
4 (S-MG%)	28 (S-V)	0.4336	9	
4 (S-MG%)	29 (S-w)	*****	1	
4 (S-MG%)	30 (S-Y)	*****	2	
4 (S-MG%)	31 (S-ZN)	0.5891	6	
4 (S-MG%)	32 (S-ZR)	-0.2780	9	
4 (S-MG%)	33 (S-TH)	*****	0	
4 (S-MG%)	34 (AA-AU-P)	0.0675	8	
4 (S-MG%)	35 (INST-HG)	0.0642	8	
4 (S-MG%)	36 (AA-AS-P)	0.0173	9	
4 (S-MG%)	37 (AA-ZN-P)	-0.2305	9	
4 (S-MG%)	38 (AA-Sb-P)	0.3332	8	
5 (S-CA%)	6 (S-TI%)	-0.2515	12	
5 (S-CA%)	7 (S-MN)	0.8185	12	
5 (S-CA%)	8 (S-AG)	0.3273	9	
5 (S-CA%)	9 (S-AS)	-0.8731	3	
5 (S-CA%)	10 (S-AU)	*****	0	
5 (S-CA%)	11 (S-B)	0.1206	11	
5 (S-CA%)	12 (S-BA)	-0.0806	9	
5 (S-CA%)	13 (S-BE)	-0.2039	9	

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-CAZ )	) 14 (S-BI )	) *****	1	
5 (S-CAZ )	) 15 (S-CD )	) 0.5522	5	
5 (S-CAZ )	) 16 (S-CO )	) 0.5448	6	
5 (S-CAZ )	) 17 (S-CR )	) 1.0000	2	
5 (S-CAZ )	) 18 (S-Cu )	) 0.1709	12	
5 (S-CAZ )	) 19 (S-LA )	) *****	2	
5 (S-CAZ )	) 20 (S-MO )	) -0.7193	8	
5 (S-CAZ )	) 21 (S-NB )	) *****	0	
5 (S-CAZ )	) 22 (S-NI )	) 0.3822	5	
5 (S-CAZ )	) 23 (S-PB )	) 0.1062	11	
5 (S-CAZ )	) 24 (S-SB )	) -0.2925	5	
5 (S-CAZ )	) 25 (S-SC )	) *****	1	
5 (S-CAZ )	) 26 (S-SN )	) *****	1	
5 (S-CAZ )	) 27 (S-SR )	) -0.3860	8	
5 (S-CAZ )	) 28 (S-V )	) 0.1791	9	
5 (S-CAZ )	) 29 (S-W )	) *****	1	
5 (S-CAZ )	) 30 (S-Y )	) *****	2	
5 (S-CAZ )	) 31 (S-ZN )	) 0.3689	6	
5 (S-CAZ )	) 32 (S-ZR )	) -0.4156	9	
5 (S-CAZ )	) 33 (S-TH )	) *****	0	
5 (S-CAZ )	) 34 (AA-AU-P )	) 0.5292	8	
5 (S-CAZ )	) 35 (INST-HG )	) -0.1562	8	
5 (S-CAZ )	) 36 (AA-AS-P )	) -0.0417	9	
5 (S-CAZ )	) 37 (AA-Ln-P )	) -0.2629	9	
5 (S-CAZ )	) 38 (AA-SB-P )	) 0.4722	8	
6 (S-TIZ )	) 7 (S-MN )	) -0.1061	13	
6 (S-TIZ )	) 8 (S-AG )	) -0.4489	10	
6 (S-TIZ )	) 9 (S-AS )	) 0.5836	4	
6 (S-TIZ )	) 10 (S-AU )	) *****	0	
6 (S-TIZ )	) 11 (S-B )	) -0.1015	12	
6 (S-TIZ )	) 12 (S-BA )	) 0.7699	9	
6 (S-TIZ )	) 13 (S-DE )	) 0.1867	10	
6 (S-TIZ )	) 14 (S-BI )	) *****	1	
6 (S-TIZ )	) 15 (S-CD )	) 0.7870	5	
6 (S-TIZ )	) 16 (S-CO )	) 0.5408	6	
6 (S-TIZ )	) 17 (S-CR )	) 1.0000	2	
6 (S-TIZ )	) 18 (S-CU )	) -0.1425	13	
6 (S-TIZ )	) 19 (S-LA )	) *****	3	
6 (S-TIZ )	) 20 (S-MO )	) 0.4322	8	
6 (S-TIZ )	) 21 (S-NB )	) *****	0	
6 (S-TIZ )	) 22 (S-NI )	) 0.5046	5	
6 (S-TIZ )	) 23 (S-PB )	) -0.5973	13	
6 (S-TIZ )	) 24 (S-SB )	) -0.1758	5	
6 (S-TIZ )	) 25 (S-SC )	) *****	1	
6 (S-TIZ )	) 26 (S-SN )	) *****	1	
6 (S-TIZ )	) 27 (S-SR )	) -0.4474	8	
6 (S-TIZ )	) 28 (S-V )	) 0.0890	9	
6 (S-TIZ )	) 29 (S-W )	) *****	1	
6 (S-TIZ )	) 30 (S-Y )	) *****	2	
6 (S-TIZ )	) 31 (S-ZN )	) 0.3678	7	

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
6 (S-TIX )	) 32 (S-ZR )	) 0.5721	10	
6 (S-TIX )	) 33 (S-TH )	) *****	0	
6 (S-TIX )	) 34 (AA-AU-P )	) 0.0607	9	
6 (S-TIX )	) 35 (INST-HG )	) -0.7213	8	
6 (S-TIX )	) 36 (AA-AS-P )	) -0.3463	11	
6 (S-TIX )	) 37 (AA-ZN-P )	) -0.5173	11	
6 (S-TIX )	) 38 (AA-SB-P )	) -0.6884	10	
7 (S-MN )	) 8 (S-AG )	) 0.2840	9	
7 (S-MN )	) 9 (S-AS )	) -1.0000	3	
7 (S-MN )	) 10 (S-AU )	) *****	0	
7 (S-MN )	) 11 (S-B )	) 0.2744	12	
7 (S-MN )	) 12 (S-BA )	) -0.0228	9	
7 (S-MN )	) 13 (S-BE )	) 0.2615	10	
7 (S-MN )	) 14 (S-BI )	) *****	1	
7 (S-MN )	) 15 (S-CD )	) 0.8224	5	
7 (S-MN )	) 16 (S-CO )	) 0.7234	6	
7 (S-MN )	) 17 (S-CR )	) 1.0000	2	
7 (S-MN )	) 18 (S-CU )	) 0.2128	12	
7 (S-MN )	) 19 (S-LA )	) *****	2	
7 (S-MN )	) 20 (S-MO )	) -0.3580	8	
7 (S-MN )	) 21 (S-NB )	) *****	0	
7 (S-MN )	) 22 (S-NI )	) 0.3311	5	
7 (S-MN )	) 23 (S-PB )	) 0.2313	12	
7 (S-MN )	) 24 (S-SB )	) 0.3703	5	
7 (S-MN )	) 25 (S-SC )	) *****	1	
7 (S-MN )	) 26 (S-SN )	) *****	1	
7 (S-MN )	) 27 (S-SR )	) -0.4821	8	
7 (S-MN )	) 28 (S-V )	) 0.1479	9	
7 (S-MN )	) 29 (S-W )	) *****	1	
7 (S-MN )	) 30 (S-Y )	) *****	2	
7 (S-MN )	) 31 (S-ZN )	) 0.1244	6	
7 (S-MN )	) 32 (S-ZR )	) -0.0777	10	
7 (S-MN )	) 33 (S-TH )	) *****	0	
7 (S-MN )	) 34 (AA-AU-P )	) 0.6815	8	
7 (S-MN )	) 35 (INST-HG )	) -0.1103	8	
7 (S-MN )	) 36 (AA-AS-P )	) 0.1715	10	
7 (S-MN )	) 37 (AA-ZN-P )	) 0.1194	10	
7 (S-MN )	) 38 (AA-SB-P )	) 0.2972	9	
8 (S-AG )	) 9 (S-AS )	) -0.1473	4	
8 (S-AG )	) 10 (S-AU )	) *****	0	
8 (S-AG )	) 11 (S-B )	) 0.6117	8	
8 (S-AG )	) 12 (S-BA )	) -0.7870	6	
8 (S-AG )	) 13 (S-BE )	) 0.2632	8	
8 (S-AG )	) 14 (S-BI )	) *****	1	
8 (S-AG )	) 15 (S-CD )	) -0.6287	5	
8 (S-AG )	) 16 (S-CO )	) -0.1026	4	
8 (S-AG )	) 17 (S-CR )	) *****	1	
8 (S-AG )	) 18 (S-CU )	) 0.5711	10	
8 (S-AG )	) 19 (S-LA )	) *****	1	
8 (S-AG )	) 20 (S-MO )	) -0.2627	8	

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
8 (S-AG )	)	21 (S-NB)	*****	0
8 (S-AG )	)	22 (S-NI)	0.6593	4
8 (S-AG )	)	23 (S-PB)	0.9191	10
8 (S-AG )	)	24 (S-SB)	-0.2640	5
8 (S-AG )	)	25 (S-SC)	*****	0
8 (S-AG )	)	26 (S-SN)	*****	1
8 (S-AG )	)	27 (S-SR)	0.6545	6
8 (S-AG )	)	28 (S-V)	0.2434	6
8 (S-AG )	)	29 (S-W)	*****	1
8 (S-AG )	)	30 (S-Y)	*****	1
8 (S-AG )	)	31 (S-ZN)	0.6004	7
8 (S-AG )	)	32 (S-ZR)	-0.4997	6
8 (S-AG )	)	33 (S-TH)	*****	0
8 (S-AG )	)	34 (AA-AU-P)	0.5450	10
8 (S-AG )	)	35 (INST-HG)	0.7211	9
8 (S-AG )	)	36 (AA-AS-P)	0.2587	10
8 (S-AG )	)	37 (AA-ZN-P)	0.9363	8
8 (S-AG )	)	38 (AA-SB-P)	0.5870	9
9 (S-AS )	)	10 (S-AU)	*****	0
9 (S-AS )	)	11 (S-B)	0.0798	3
9 (S-AS )	)	12 (S-BA)	-1.0000	2
9 (S-AS )	)	13 (S-BE)	0.4975	4
9 (S-AS )	)	14 (S-BI)	*****	0
9 (S-AS )	)	15 (S-CD)	-1.0000	2
9 (S-AS )	)	16 (S-CO)	*****	1
9 (S-AS )	)	17 (S-CR)	*****	0
9 (S-AS )	)	18 (S-CU)	-0.4093	4
9 (S-AS )	)	19 (S-LA)	*****	2
9 (S-AS )	)	20 (S-MG)	1.0000	2
9 (S-AS )	)	21 (S-NB)	*****	0
9 (S-AS )	)	22 (S-NI)	*****	1
9 (S-AS )	)	23 (S-PB)	-0.8285	5
9 (S-AS )	)	24 (S-SB)	1.0000	2
9 (S-AS )	)	25 (S-SC)	*****	0
9 (S-AS )	)	26 (S-SN)	*****	0
9 (S-AS )	)	27 (S-SR)	*****	1
9 (S-AS )	)	28 (S-V)	1.0000	2
9 (S-AS )	)	29 (S-W)	*****	0
9 (S-AS )	)	30 (S-Y)	*****	1
9 (S-AS )	)	31 (S-ZN)	0.1681	3
9 (S-AS )	)	32 (S-ZR)	1.0000	3
9 (S-AS )	)	33 (S-TH)	*****	0
9 (S-AS )	)	34 (AA-AU-P)	-0.5875	4
9 (S-AS )	)	35 (INST-HG)	-0.1154	3
9 (S-AS )	)	36 (AA-AS-P)	0.8678	5
9 (S-AS )	)	37 (AA-ZN-P)	-0.2105	4
9 (S-AS )	)	38 (AA-SB-P)	-0.6243	4
10 (S-AU )	)	11 (S-B)	*****	0
10 (S-AU )	)	12 (S-BA)	*****	0
10 (S-AU )	)	13 (S-BE)	*****	0

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
10 (S-AU )	)	14 (S-BI)	*****	0
10 (S-AU )	)	15 (S-CD)	*****	0
10 (S-AU )	)	16 (S-CO)	*****	0
10 (S-AU )	)	17 (S-CR)	*****	0
10 (S-AU )	)	18 (S-CU)	*****	0
10 (S-AU )	)	19 (S-LA)	*****	0
10 (S-AU )	)	20 (S-MO)	*****	0
10 (S-AU )	)	21 (S-NB)	*****	0
10 (S-AU )	)	22 (S-NI)	*****	0
10 (S-AU )	)	23 (S-PB)	*****	0
10 (S-AU )	)	24 (S-SB)	*****	0
10 (S-AU )	)	25 (S-SC)	*****	0
10 (S-AU )	)	26 (S-SN)	*****	0
10 (S-AU )	)	27 (S-SR)	*****	0
10 (S-AU )	)	28 (S-V)	*****	0
10 (S-AU )	)	29 (S-w)	*****	0
10 (S-AU )	)	30 (S-Y)	*****	0
10 (S-AU )	)	31 (S-ZN)	*****	0
10 (S-AU )	)	32 (S-ZR)	*****	0
10 (S-AU )	)	33 (S-TH)	*****	0
10 (S-AU )	)	34 (AA-AU-P)	*****	0
10 (S-AU )	)	35 (INST-HG)	*****	0
10 (S-AU )	)	36 (AA-AS-P)	*****	0
10 (S-AU )	)	37 (AA-ZN-P)	*****	0
10 (S-AU )	)	38 (AA-SB-P)	*****	0
11 (S-B )	)	12 (S-DA)	0.2115	8
11 (S-B )	)	13 (S-BE)	0.3992	10
11 (S-B )	)	14 (S-B1)	*****	1
11 (S-B )	)	15 (S-CD)	-0.2101	4
11 (S-B )	)	16 (S-CO)	-0.4849	6
11 (S-B )	)	17 (S-CR)	-1.0000	2
11 (S-B )	)	18 (S-CU)	-0.1195	11
11 (S-B )	)	19 (S-LA)	*****	2
11 (S-B )	)	20 (S-MO)	0.5311	7
11 (S-B )	)	21 (S-NB)	*****	0
11 (S-B )	)	22 (S-NI)	-0.7857	5
11 (S-B )	)	23 (S-PB)	0.1802	11
11 (S-B )	)	24 (S-SB)	0.9031	4
11 (S-B )	)	25 (S-SC)	*****	1
11 (S-B )	)	26 (S-SN)	*****	1
11 (S-B )	)	27 (S-SR)	-0.1170	7
11 (S-B )	)	28 (S-V)	0.2071	9
11 (S-B )	)	29 (S-w)	*****	1
11 (S-B )	)	30 (S-Y)	*****	2
11 (S-B )	)	31 (S-ZN)	0.2500	5
11 (S-B )	)	32 (S-ZR)	0.0935	10
11 (S-B )	)	33 (S-TH)	*****	0
11 (S-B )	)	34 (AA-AU-P)	0.2096	7
11 (S-B )	)	35 (INST-HG)	0.7476	7
11 (S-B )	)	36 (AA-AS-P)	0.3585	9

ARRAY OF VARIANCES -

	1 X-COORD.	2 Y-COORD.	3 S-FEX	4 S-MGX	5 S-CA%	6 S-TIX	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 X-COORD.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****
2 Y-COORD.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****
3 S-FEX	0.280	0.280	0.280	0.228	0.228	0.259	0.266	0.244	0.391	*****
4 S-MGX	0.589	0.589	0.589	0.569	0.589	0.589	0.589	0.382	0.373	*****
5 S-CA%	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.773	1.243	*****
6 S-TIX	0.418	0.418	0.418	0.349	0.349	0.418	0.327	0.456	0.494	*****
7 S-MN	0.455	0.455	0.455	0.423	0.423	0.455	0.455	0.496	0.123	*****
8 S-AG	1.337	1.337	1.337	1.482	1.482	1.326	1.482	1.337	1.050	*****
9 S-AS	0.090	0.090	0.090	0.123	0.123	0.115	0.123	0.053	0.090	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.046	0.091	*****
12 S-BA	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.360	0.016	*****
13 S-BE	0.025	0.025	0.025	0.024	0.024	0.022	0.022	0.024	0.056	*****
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.068	*****
16 S-CO	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.066	*****	*****
17 S-CR	2.000	2.000	2.000	2.000	2.000	2.000	2.000	*****	*****	*****
18 S-CU	1.015	1.015	1.015	1.029	1.029	1.015	1.029	0.730	1.072	*****
19 S-LA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****	0.000	*****
20 S-MO	0.384	0.384	0.384	0.384	0.384	0.384	0.384	0.384	1.091	*****
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.051	*****	*****
23 S-PB	1.288	1.288	1.288	1.276	1.276	1.371	1.375	0.901	0.944	*****
24 S-SB	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.500	*****
25 S-SC	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.232	*****	*****
28 S-V	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.062	0.045	*****
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*****	*****	*****
31 S-ZN	0.374	0.374	0.374	0.304	0.304	0.374	0.304	0.374	0.613	*****
32 S-ZR	0.100	0.100	0.100	0.098	0.098	0.100	0.100	0.104	0.123	*****
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.505	0.505	0.505	0.359	0.359	0.319	0.359	0.505	0.902	*****
35 INST-HG	0.291	0.291	0.291	0.139	0.139	0.139	0.139	0.291	0.776	*****
36 AA-AS-P	0.515	0.515	0.515	0.583	0.583	0.499	0.518	0.486	0.186	*****
37 AA-ZN-P	0.579	0.579	0.579	0.611	0.611	0.618	0.673	0.464	0.499	*****
38 AA-SB-P	0.595	0.595	0.595	0.822	0.822	0.661	0.743	0.717	0.083	*****

ARRAY OF VARIANCES - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CO	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	0.000	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000	0.000
2 Y-COORD.	0.000	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000	0.000
3 S-FEZ	0.228	0.308	0.300	*****	0.314	0.131	0.000	0.228	0.393	0.203
4 S-MG%	0.648	0.595	0.233	*****	0.286	0.742	1.702	0.589	0.500	0.412
5 S-CA%	0.818	0.566	0.630	*****	0.612	0.655	0.365	0.750	1.060	0.729
6 S-TIX	0.304	0.240	0.120	*****	0.159	0.198	0.045	0.450	0.882	0.368
7 S-MN	0.494	0.299	0.347	*****	0.225	0.461	0.045	0.423	0.045	0.445
8 S-AG	1.519	2.041	1.675	*****	0.163	1.072	*****	1.326	*****	0.852
9 S-AS	0.123	0.045	0.082	*****	0.079	*****	*****	0.115	0.244	0.079
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.092	0.125	0.102	*****	0.061	0.127	0.016	0.092	0.339	0.040
12 S-BA	0.210	0.316	0.242	*****	0.192	0.260	0.079	0.316	0.383	0.155
13 S-BE	0.022	0.030	0.025	*****	0.041	0.015	*****	0.024	0.016	0.025
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CO	0.052	0.010	0.052	*****	0.049	0.077	*****	0.049	*****	0.049
16 S-CR	0.155	0.240	0.064	*****	0.091	0.155	*****	0.155	*****	0.066
17 S-CU	2.000	2.000	*****	*****	*****	*****	2.000	2.000	*****	*****
18 S-CU	1.098	1.370	1.332	*****	0.049	1.009	2.000	1.015	0.109	0.253
19 S-LA	0.000	0.000	0.000	*****	*****	*****	*****	0.000	0.000	*****
20 S-MO	0.376	0.367	0.417	*****	0.432	0.448	*****	0.384	*****	0.384
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	0.718	1.718	0.060	*****	*****	1.091	1.718	0.718	*****	0.051
23 S-PB	1.357	1.373	1.210	*****	0.023	1.587	1.443	1.254	1.548	0.398
24 S-SB	0.214	0.350	0.263	*****	0.268	0.045	*****	0.260	*****	0.260
25 S-SC	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	0.182	0.212	0.270	*****	0.343	0.218	*****	0.170	*****	0.232
28 S-V	0.053	0.041	0.047	*****	0.128	0.065	0.079	0.053	0.016	0.068
29 S-*	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	0.000	0.000	*****	*****	*****	*****	*****	0.000	*****	*****
31 S-ZN	0.360	0.263	0.380	*****	0.127	0.204	*****	0.374	*****	0.304
32 S-ZR	0.100	0.103	0.106	*****	0.123	0.156	0.011	0.098	0.012	0.122
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.383	0.368	0.638	*****	0.201	0.217	*****	0.319	*****	0.214
35 INST-HG	0.140	0.185	0.303	*****	0.066	0.039	*****	0.139	*****	0.138
36 AA-AS-P	0.579	0.638	0.662	*****	0.109	0.371	*****	0.555	0.186	0.429
37 AA-ZN-P	0.573	0.694	0.568	*****	0.091	0.515	0.218	0.549	0.519	0.324
38 AA-SB-P	0.639	0.076	0.492	*****	0.390	0.678	*****	0.720	0.004	0.953

ARRAY OF VARIANCES - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	*****	0.000	0.000	0.000	*****	*****	0.000	0.000	*****	0.000
2 Y-COORD.	*****	0.000	0.000	0.000	*****	*****	0.000	0.000	*****	0.000
3 S-FEZ	*****	0.055	0.300	0.225	*****	*****	0.191	0.201	*****	0.000
4 S-MGX	*****	0.795	0.496	0.605	*****	*****	0.677	0.618	*****	1.393
5 S-CAZ	*****	0.879	0.654	0.913	*****	*****	0.598	0.687	*****	2.000
6 S-TIZ	*****	0.623	0.327	0.302	*****	*****	0.476	0.133	*****	0.339
7 S-MN	*****	0.590	0.369	0.478	*****	*****	0.492	0.421	*****	0.244
8 S-AG	*****	0.658	1.482	0.260	*****	*****	0.761	1.786	*****	*****
9 S-AS	*****	*****	*****	0.090	0.079	*****	*****	0.244	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	*****	0.020	0.100	0.061	*****	*****	0.106	0.092	*****	0.244
12 S-BA	*****	0.079	0.316	0.250	*****	*****	0.422	0.243	*****	0.025
13 S-BE	*****	0.000	0.025	0.058	*****	*****	0.015	0.019	*****	*****
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	*****	*****	0.049	0.066	*****	*****	0.066	0.077	*****	*****
16 S-CO	*****	0.207	0.155	0.045	*****	*****	0.155	0.155	*****	*****
17 S-CR	*****	2.000	2.000	*****	*****	*****	*****	2.000	*****	*****
18 S-CU	*****	0.585	1.106	0.089	*****	*****	0.757	1.318	*****	0.667
19 S-LA	*****	*****	0.000	*****	*****	*****	*****	0.000	*****	*****
20 S-MO	*****	0.427	0.430	0.375	*****	*****	0.357	0.367	*****	*****
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	*****	0.718	0.843	0.114	*****	*****	0.898	0.843	*****	*****
23 S-PB	*****	1.295	1.288	0.021	*****	*****	1.479	1.295	*****	2.875
24 S-SB	*****	0.339	0.268	0.260	*****	*****	0.192	0.045	*****	*****
25 S-SC	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	*****	0.020	0.196	0.316	*****	*****	0.170	0.218	*****	*****
28 S-V	*****	0.087	0.053	0.114	*****	*****	0.065	0.053	*****	*****
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	*****	*****	0.000	*****	*****	*****	*****	*****	*****	0.000
31 S-ZN	*****	1.192	0.374	0.153	*****	*****	0.165	0.504	*****	*****
32 S-ZR	*****	0.066	0.100	0.079	*****	*****	0.156	0.112	*****	0.011
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	*****	0.333	0.505	0.240	*****	*****	0.234	0.459	*****	*****
35 INST-HG	*****	0.082	0.291	0.086	*****	*****	0.042	0.103	*****	*****
36 AA-AS-P	*****	0.586	0.562	0.115	*****	*****	0.271	0.791	*****	*****
37 AA-ZN-P	*****	0.112	0.579	0.091	*****	*****	0.762	0.317	*****	1.464
38 AA-SB-P	*****	1.513	0.406	0.264	*****	*****	0.728	0.672	*****	*****

ARRAY OF VARIANCES - CONT.

	31 S-ZN	32 S-ZR	33 S-TH	34 AA-AU-P	35 INST-HG	36 AA-AS-P	37 AA-ZN-P	38 AA-SB-P
1 X-COORD.	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000
2 Y-COORD.	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000
3 S-FEZ	0.270	0.264	*****	0.269	0.290	0.307	0.300	0.311
4 S-MGX	0.235	0.511	*****	0.189	0.189	0.468	0.569	0.535
5 S-CAZ	0.490	0.787	*****	0.004	0.604	0.740	0.603	0.686
6 S-TIX	0.356	0.086	*****	0.365	0.206	0.392	0.389	0.432
7 S-MN	0.223	0.407	*****	0.363	0.363	0.444	0.378	0.497
8 S-AG	0.675	1.596	*****	1.482	1.665	0.924	1.766	0.908
9 S-AS	0.053	0.123	*****	0.053	0.053	0.090	0.082	0.115
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.053	0.110	*****	0.051	0.051	0.042	0.121	0.017
12 S-BA	0.155	0.183	*****	0.360	0.360	0.130	0.358	0.129
13 S-BE	0.031	0.015	*****	0.024	0.024	0.031	0.031	0.026
14 S-BI	*****	*****	*****	*****	*****	*****	*****	*****
15 S-CD	0.049	0.045	*****	0.049	0.049	0.049	0.010	0.066
16 S-CO	0.091	0.159	*****	0.066	0.066	0.066	0.231	0.066
17 S-CR	*****	2.000	*****	*****	*****	*****	2.000	*****
18 S-CU	0.558	1.253	*****	0.814	0.678	0.793	1.131	0.879
19 S-LA	*****	0.000	*****	*****	*****	0.000	0.000	0.000
20 S-MO	0.357	0.458	*****	0.430	0.430	0.384	0.504	0.304
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	0.055	0.843	*****	0.060	0.060	0.051	1.243	0.051
23 S-PB	0.118	1.248	*****	0.901	0.954	0.985	1.238	1.046
24 S-SB	0.268	0.500	*****	0.268	0.268	0.260	0.350	0.192
25 S-SC	*****	*****	*****	*****	*****	*****	*****	*****
26 S-SN	*****	*****	*****	*****	*****	*****	*****	*****
27 S-SR	0.343	0.015	*****	0.284	0.284	0.232	0.212	0.232
28 S-V	0.087	0.060	*****	0.062	0.062	0.055	0.029	0.055
29 S-W	*****	*****	*****	*****	*****	*****	*****	*****
30 S-Y	*****	0.000	*****	*****	*****	0.000	*****	*****
31 S-ZN	0.374	0.485	*****	0.374	0.304	0.374	0.232	0.439
32 S-ZR	0.115	0.100	*****	0.104	0.104	0.127	0.043	0.147
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.205	0.442	*****	0.505	0.568	0.465	0.513	0.525
35 INST-HG	0.162	0.154	*****	0.291	0.291	0.325	0.374	0.305
36 AA-AS-P	0.362	0.755	*****	0.536	0.553	0.515	0.701	0.533
37 AA-ZN-P	0.215	0.551	*****	0.464	0.541	0.527	0.579	0.442
38 AA-SB-P	0.015	0.366	*****	0.511	0.595	0.595	0.434	0.595

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (X-COORD.)	2 (Y-COORD.)	-0.4723	15
1 (X-COORD.)	3 (S-FEZ)	0.0772	15
1 (X-COORD.)	4 (S-MGZ)	0.0564	12
1 (X-COORD.)	5 (S-CAZ)	-0.0097	12
1 (X-COORD.)	6 (S-TIZ)	-0.3457	14
1 (X-COORD.)	7 (S-MN)	0.1392	13
1 (X-COORD.)	8 (S-AG)	-0.0936	11
1 (X-COORD.)	9 (S-AS)	0.7475	5
1 (X-COORD.)	10 (S-AU)	*****	0
1 (X-COORD.)	11 (S-B)	-0.1188	12
1 (X-COORD.)	12 (S-BA)	0.0696	9
1 (X-COORD.)	13 (S-BE)	0.4661	11
1 (X-COORD.)	14 (S-BI)	*****	1
1 (X-COORD.)	15 (S-CD)	0.6476	5
1 (X-COORD.)	16 (S-CO)	-0.1641	6
1 (X-COORD.)	17 (S-CR)	-1.0000	2
1 (X-COORD.)	18 (S-CU)	-0.1581	13
1 (X-COORD.)	19 (S-LA)	*****	3
1 (X-COORD.)	20 (S-MO)	-0.0169	8
1 (X-COORD.)	21 (S-NB)	*****	0
1 (X-COORD.)	22 (S-NI)	-0.5807	5
1 (X-COORD.)	23 (S-PB)	-0.2041	14
1 (X-COORD.)	24 (S-SB)	0.6801	5
1 (X-COORD.)	25 (S-SC)	*****	1
1 (X-COORD.)	26 (S-SN)	*****	1
1 (X-COORD.)	27 (S-SR)	-0.3156	8
1 (X-COORD.)	28 (S-V)	-0.6765	9
1 (X-COORD.)	29 (S-W)	*****	1
1 (X-COORD.)	30 (S-Y)	*****	2
1 (X-COORD.)	31 (S-ZN)	-0.0838	7
1 (X-COORD.)	32 (S-ZR)	0.0875	10
1 (X-COORD.)	33 (S-TH)	*****	0
1 (X-COORD.)	34 (AA-AL-P)	0.0533	10
1 (X-COORD.)	35 (INST-HG)	-0.2677	9
1 (X-COORD.)	36 (AA-AS-P)	0.3843	12
1 (X-COORD.)	37 (AA-LN-P)	-0.1231	12
1 (X-COORD.)	38 (AA-SB-P)	0.2901	11
2 (Y-COORD.)	3 (S-FEZ)	-0.1521	15
2 (Y-COORD.)	4 (S-MGZ)	0.1208	12
2 (Y-COORD.)	5 (S-CAZ)	0.2337	12
2 (Y-COORD.)	6 (S-TIZ)	0.0245	14
2 (Y-COORD.)	7 (S-MN)	0.2218	13
2 (Y-COORD.)	8 (S-AG)	-0.5602	11
2 (Y-COORD.)	9 (S-AS)	-0.7422	5
2 (Y-COORD.)	10 (S-AU)	*****	0
2 (Y-COORD.)	11 (S-B)	0.6681	12
2 (Y-COORD.)	12 (S-BA)	0.4080	9
2 (Y-COORD.)	13 (S-BE)	-0.3097	11
2 (Y-COORD.)	14 (S-BI)	*****	1
2 (Y-COORD.)	15 (S-CD)	0.5984	5

ARRAY OF MEANS -

	1 X-COORD.	2 Y-COORD.	3 S-FEX	4 S-MG%	5 S-CA%	6 S-TIZ	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 X-COORD.	4.6713	4.6713	4.6713	4.6703	4.6703	4.6713	4.6712	4.6707	4.6755	*****
2 Y-COORD.	5.6148	5.6148	5.6148	5.6149	5.6149	5.6147	5.6147	5.6150	5.6146	*****
3 S-FEZ	0.1914	0.1914	0.1914	0.3394	0.3394	0.2425	0.2730	0.1541	0.2997	*****
4 S-MG%	-0.7026	-0.7026	-0.7026	-0.7026	-0.7026	-0.7026	-0.7026	-0.7643	-1.0153	*****
5 S-CA%	-0.2531	-0.2531	-0.2531	-0.2531	-0.2531	-0.2531	-0.2531	-0.3202	-0.5857	*****
6 S-TIZ	-1.5165	-1.5165	-1.5165	-1.4027	-1.4027	-1.5165	-1.4255	-1.6678	-1.6694	*****
7 S-MN	2.1660	2.1660	2.1660	2.2361	2.2381	2.1660	2.1660	2.1729	2.3333	*****
8 S-AG	1.9903	1.9903	1.9903	2.1336	2.1336	2.1048	2.1336	1.9903	2.1413	*****
9 S-AS	2.6000	2.6000	2.6000	2.6067	2.6067	2.5753	2.6667	2.5000	2.6000	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.5823	1.5823	1.5823	1.6079	1.6079	1.5823	1.5823	1.5759	1.6514	*****
12 S-BA	2.4482	2.4482	2.4482	2.4482	2.4482	2.4482	2.4482	2.3096	2.3891	*****
13 S-BE	0.2329	0.2329	0.2329	0.2512	0.2512	0.2562	0.2562	0.1853	0.2826	*****
14 S-BI	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	*****
15 S-CD	1.4603	1.4603	1.4603	1.4803	1.4803	1.4803	1.4803	1.4803	1.6611	*****
16 S-CO	1.0405	1.0405	1.0405	1.0405	1.0405	1.0405	1.0405	0.9613	1.0000	*****
17 S-CR	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	1.0000	1.0000	*****
18 S-CU	2.3650	2.3650	2.3650	2.4390	2.4390	2.3650	2.4390	2.7055	2.1193	*****
19 S-LA	1.3010	1.3010	1.3010	1.3010	1.3010	1.3010	1.3010	1.3010	1.3010	*****
20 S-MO	1.3061	1.3061	1.3061	1.3061	1.3061	1.3061	1.3061	1.3061	1.4375	*****
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	1.2236	1.2236	1.2236	1.2236	1.2236	1.2236	1.2236	0.8548	1.1761	*****
23 S-PB	2.7015	2.7015	2.7015	2.7859	2.7839	2.7419	2.6499	3.1866	3.1440	*****
24 S-SB	2.5659	2.5659	2.5659	2.5659	2.5659	2.5659	2.5659	2.5659	2.6761	*****
25 S-SC	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	*****
26 S-SN	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	2.3010	*****
27 S-SR	2.4069	2.4069	2.4069	2.4069	2.4069	2.4069	2.4069	2.4422	2.0000	*****
28 S-V	1.4008	1.4008	1.4008	1.4008	1.4008	1.4008	1.4008	1.3551	1.1505	*****
29 S-W	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	*****
30 S-Y	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	*****
31 S-ZN	3.0890	3.0890	3.0890	3.2204	3.2204	3.0890	3.2204	3.0890	3.1491	*****
32 S-ZR	1.6234	1.6234	1.6234	1.6592	1.6592	1.6234	1.6234	1.5405	1.6667	*****
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.0385	0.0385	0.0385	0.2108	0.2108	0.1874	0.2108	0.0385	-0.0061	*****
35 INST-HG	0.0008	0.0008	0.0008	0.1380	0.1380	0.1380	0.1380	0.0008	-0.1632	*****
36 AA-AS-P	1.9571	1.9571	1.9571	1.8265	1.8265	1.8859	1.8313	1.8569	2.5187	*****
37 AA-ZN-P	2.0212	2.0212	2.0212	2.1394	2.1394	2.0593	2.0254	2.3388	2.3138	*****
38 AA-SB-P	1.5578	1.5578	1.5578	1.6128	1.6128	1.5580	1.5609	1.6159	1.6535	*****

ARRAY OF MEANS - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	4.6719	4.6679	4.6711	4.6669	4.6675	4.6656	4.6666	4.6704	4.6724	4.6706
2 Y-COORD.	5.6147	5.6148	5.6148	5.6150	5.6149	5.6152	5.6147	5.6149	5.6150	5.6149
3 S-FEX	0.3594	0.3465	0.2318	0.1761	0.2997	0.3662	0.6990	0.3013	0.2817	0.3343
4 S-MGZ	-0.7029	-0.8034	-1.0061	-1.1549	-0.8092	-0.5886	-0.0775	-0.7026	-1.1990	-0.7154
5 S-CAZ	-0.2761	-0.3816	-0.5262	-1.3010	-0.2250	-0.0208	0.2720	-0.2531	-0.4269	-0.1976
6 S-TI%	-1.3647	-1.3147	-1.2979	-1.0000	-1.6560	-1.2168	-0.8495	-1.5024	-1.6180	-1.6224
7 S-MN	2.1799	2.1729	1.9857	1.3010	2.1908	2.2092	2.8495	2.2381	2.1505	2.2819
8 S-AG	2.0033	2.2213	1.8369	1.0000	3.0011	2.4133	1.1761	2.1048	1.8451	2.4197
9 S-AS	2.6667	2.8495	2.6747	*****	2.5000	2.3010	*****	2.5753	2.6505	2.5000
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.5823	1.6292	1.5988	1.4771	1.6633	1.6221	1.3891	1.6079	1.8891	1.6152
12 S-BA	2.5695	2.4482	2.5510	*****	2.0638	2.5440	2.5000	2.4482	2.7386	2.1113
13 S-BE	0.2562	0.2726	0.2329	0.1761	0.2386	0.1908	0.1761	0.2512	0.3891	0.2177
14 S-BI	1.0000	*****	1.0000	1.0000	*****	1.0000	*****	1.0000	*****	1.0000
15 S-CD	1.5251	1.3891	1.5251	*****	1.4803	1.5411	*****	1.4803	*****	1.4803
16 S-CO	1.0405	1.0995	0.9088	0.8451	1.0000	1.0405	1.6990	1.0405	0.6990	0.9613
17 S-CR	2.0000	2.0000	1.0000	*****	3.0000	2.0000	2.0000	*****	*****	1.0000
18 S-CU	2.3880	2.3877	2.4384	2.3010	3.1556	2.4616	2.8451	2.3650	1.1074	3.0502
19 S-LA	1.3010	1.3010	1.3010	*****	1.3010	*****	1.3010	1.3010	1.3010	*****
20 S-MO	1.3929	1.3148	1.4584	2.1761	1.2546	1.3935	1.0000	1.3061	*****	1.3061
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	1.2236	1.7720	0.9067	0.6990	1.1761	1.5247	1.7720	1.2236	*****	0.8548
23 S-PB	2.5413	2.7025	2.6208	2.3010	3.8486	2.7964	2.1505	2.8724	2.4407	3.5063
24 S-SB	2.7073	2.5511	2.6098	*****	2.4573	2.3266	*****	2.5659	*****	2.5659
25 S-SC	1.0000	1.0000	*****	*****	*****	1.0000	1.0000	1.0000	*****	*****
26 S-SN	2.3010	*****	*****	*****	*****	*****	*****	2.3010	*****	2.3010
27 S-SR	2.3652	2.5556	2.3908	2.1761	2.5440	2.3759	2.3010	2.4069	2.3010	2.4422
28 S-V	1.4008	1.4472	1.3636	1.4771	1.3920	1.4716	1.5000	1.4008	1.3891	1.3908
29 S-W	2.0000	2.0000	2.0000	*****	2.0000	2.0000	*****	2.0000	*****	2.0000
30 S-Y	1.0000	1.0000	1.0000	*****	1.0000	1.0000	1.0000	1.0000	*****	1.0000
31 S-ZN	3.2292	3.0954	3.2292	*****	3.4042	3.5147	2.3010	3.0890	2.3010	3.2204
32 S-ZR	1.6234	1.6839	1.5988	1.8451	1.3333	1.5673	1.7720	1.6592	1.9225	1.5088
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.2726	0.1338	0.0759	-0.0706	0.3356	0.3767	0.9031	0.1874	0.0000	0.3586
35 INST-HG	0.0961	0.1785	-0.0530	0.0792	0.3431	0.1775	-0.4685	0.1380	*****	0.1895
36 AA-AS-P	1.8511	1.9530	1.9172	0.6990	1.9706	1.5984	0.6990	1.8870	2.7364	1.6746
37 AA-ZN-P	1.8976	2.1596	1.9040	1.9777	3.0434	1.8052	1.8741	2.1652	1.7993	2.6624
38 AA-SB-P	1.5286	1.4090	1.3481	0.7782	1.8440	1.5836	0.3010	1.6037	1.4893	1.6364

ARRAY OF MEANS - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SSN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	*****	4.6731	4.6700	4.6731	4.6635	4.6888	4.6681	4.6683	4.6611	4.6700
2 Y-COORD.	*****	5.6149	5.6148	5.6149	5.6142	5.6149	5.6151	5.6149	5.6146	5.6146
3 S-FEX	*****	0.4704	0.1836	0.1908	0.6990	0.3010	0.2469	0.3995	0.8451	0.6990
4 S-MG%	*****	-0.2711	-0.8099	-0.6535	0.8451	0.4771	-0.4692	-0.8206	-0.3010	0.0106
5 S-CA%	*****	0.1864	-0.3670	-0.0602	0.6990	1.0000	0.1094	-0.3040	0.1761	-0.3010
6 S-TI%	*****	-1.3398	-1.4255	-1.9356	-0.6990	-2.6990	-1.5194	-1.1618	-1.3010	-1.1109
7 S-MN	*****	2.6000	2.0714	2.3556	3.0000	3.3010	2.3195	2.1395	2.4771	2.6505
8 S-AG	*****	1.7628	1.9717	2.9409	*****	2.1761	2.5009	1.7791	2.4771	3.1761
9 S-AS	*****	2.3010	2.6000	2.5000	*****	*****	2.3010	2.6505	*****	2.6990
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	*****	1.4863	1.5717	1.6033	1.3010	1.6990	1.6331	1.5542	1.6990	1.6505
12 S-BA	*****	2.5000	2.4482	1.9847	2.6990	*****	2.3306	2.5827	2.3010	2.5880
13 S-BE	*****	0.1761	0.2329	0.2177	*****	*****	0.1908	0.2229	0.3010	0.4771
14 S-BI	*****	1.0000	1.0000	*****	*****	*****	1.0000	1.0000	*****	*****
15 S-CD	*****	1.8451	1.4803	1.4811	*****	*****	1.4811	1.5411	1.4771	1.4771
16 S-CO	*****	1.1814	1.0405	0.8495	1.6990	*****	1.0405	1.0405	1.3010	1.6990
17 S-CR	*****	2.0000	2.0000	*****	3.0000	*****	3.0000	2.0000	*****	3.0000
18 S-CU	*****	2.6937	2.3556	2.9556	1.8451	2.4771	2.5308	2.3101	3.4771	2.4225
19 S-LA	*****	*****	1.3010	*****	*****	*****	1.3010	1.3010	*****	*****
20 S-MO	*****	1.2188	1.3499	1.1148	*****	1.0000	1.2122	1.3148	1.6990	2.1761
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	*****	1.2236	1.3548	0.9375	2.6990	0.6990	1.3183	1.3548	*****	2.6990
23 S-PB	*****	2.6505	2.7015	3.8800	1.3010	*****	2.9462	2.5644	3.6990	2.5000
24 S-SB	*****	2.5880	2.4573	2.5059	*****	3.0000	2.4133	2.3266	*****	3.1761
25 S-SC	*****	1.0000	1.0000	*****	1.0000	*****	1.0000	1.0000	*****	1.0000
26 S-SSN	*****	2.3010	*****	2.3010	*****	2.3010	2.3010	*****	*****	*****
27 S-SR	*****	2.1945	2.4220	2.5753	2.3010	2.3010	2.4069	2.3759	2.1761	2.3010
28 S-V	*****	1.3693	1.4008	1.2356	1.6990	*****	1.4716	1.4008	1.6990	1.6990
29 S-W	*****	*****	2.0000	*****	*****	*****	2.0000	2.0000	2.0000	*****
30 S-Y	*****	1.0000	1.0000	1.0000	1.0000	*****	1.0000	1.0000	*****	1.0000
31 S-ZN	*****	3.0731	3.0890	3.3306	*****	*****	3.4300	3.2113	3.6990	3.3010
32 S-ZR	*****	1.6725	1.6234	1.5000	1.8451	*****	1.5673	1.6543	1.0000	1.7720
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	*****	0.5956	0.0385	0.3997	*****	*****	0.2570	0.2643	0.0792	0.3222
35 INST-HG	*****	-0.1450	0.0008	0.3592	*****	*****	0.2283	0.0033	0.2788	0.6532
36 AA-AS-P	*****	1.3548	1.9399	1.9915	*****	2.1461	1.6988	1.6890	2.0414	2.5051
37 AA-ZN-P	*****	1.9086	2.0212	3.0434	1.5441	*****	2.0794	1.8318	*****	2.3997
38 AA-SB-P	*****	1.5396	1.4136	2.3440	*****	3.0000	1.8590	1.3471	1.0000	*****

ARRAY OF MEANS - CONT.

	31	32	33	34	35	36	37	38
	S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P
1 X-COORD.	4.6685	4.6711	*****	4.6689	4.6686	4.6728	4.6704	4.6725
2 Y-COORD.	5.6149	5.6147	*****	5.6150	5.6150	5.6146	5.6147	5.6145
3 S-FEX	0.2918	0.3771	*****	0.1395	0.1722	0.2061	0.1040	0.1613
4 S-MG%	-0.8410	-0.7234	*****	-0.9194	-0.9194	-0.8247	-0.8983	-0.8248
5 S-CAX	-0.2133	-0.3769	*****	-0.4852	-0.4852	-0.3040	-0.5458	-0.1793
6 S-TIX	-1.7113	-1.1678	*****	-1.5532	-1.4100	-1.6847	-1.4481	-1.7009
7 S-MN	2.2755	2.1380	*****	2.0319	2.0319	2.1556	1.9681	2.1395
8 S-AG	2.5752	1.7289	*****	1.9717	1.9857	2.2048	1.8176	2.0969
9 S-AS	2.4337	2.6667	*****	2.5000	2.5663	2.6000	2.6747	2.5753
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.6261	1.5812	*****	1.5584	1.5584	1.5650	1.5681	1.5106
12 S-BA	2.1113	2.6509	*****	2.3096	2.3096	2.1429	2.4665	2.0760
13 S-BE	0.2261	0.2846	*****	0.1853	0.1853	0.2316	0.2316	0.2009
14 S-BI	*****	1.0000	*****	1.0000	1.0000	1.0000	1.0000	1.0000
15 S-CD	1.4803	1.5998	*****	1.4803	1.4803	1.4803	1.3597	1.4811
16 S-CO	1.0000	1.1088	*****	0.9613	0.9613	0.9613	0.9855	0.9613
17 S-CR	1.0000	2.0000	*****	1.0000	1.0000	1.0000	2.0000	1.0000
18 S-CU	3.0143	2.2766	*****	2.7308	2.8875	2.6879	2.1791	2.6532
19 S-LA	1.3010	1.3010	*****	1.3010	*****	1.3010	1.3010	1.3010
20 S-MO	1.2122	1.5500	*****	1.3499	1.3499	1.3061	1.4102	1.1819
21 S-NB	*****	*****	*****	*****	*****	*****	*****	*****
22 S-NI	1.6106	1.3548	*****	0.9067	0.9067	0.8548	1.4143	0.8548
23 S-PB	3.7269	2.3954	*****	3.1866	3.1135	3.0674	2.5101	3.0042
24 S-SB	2.4573	2.6761	*****	2.4573	2.4573	2.5659	2.5511	2.4133
25 S-SC	*****	1.0000	*****	*****	*****	*****	1.0000	*****
26 S-SN	*****	*****	*****	*****	*****	2.3010	*****	2.3010
27 S-SR	2.5440	2.1908	*****	2.4704	2.4704	2.4422	2.5556	2.4422
28 S-V	1.3093	1.3913	*****	1.3551	1.3551	1.3759	1.4155	1.3759
29 S-W	2.0000	2.0000	*****	2.0000	2.0000	2.0000	*****	2.0000
30 S-Y	1.0000	1.0000	*****	1.0000	1.0000	1.0000	1.0000	*****
31 S-ZN	3.0890	3.2865	*****	3.0890	3.2204	3.0890	2.8158	3.0537
32 S-ZR	1.4247	1.6234	*****	1.5405	1.5405	1.5493	1.7417	1.5244
33 S-TH	*****	*****	*****	*****	*****	*****	*****	*****
34 AA-AU-P	0.3687	0.2274	*****	0.0385	0.0428	0.1344	-0.0810	0.1109
35 INST-HG	0.2078	0.0458	*****	0.0008	0.0008	0.0287	-0.0322	-0.0606
36 AA-AS-P	1.8548	1.8194	*****	1.8247	1.7489	1.9571	1.9358	1.9073
37 AA-ZN-P	2.7465	1.7974	*****	2.3388	2.3303	2.2569	2.0212	2.1321
38 AA-SB-P	1.5347	1.1253	*****	1.4429	1.4302	1.5578	1.3821	1.5578

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
14 (S-BI )	)	27 (S-SR)	-0.2275	4
14 (S-BI )	)	28 (S-V)	0.0471	9
14 (S-BI )	)	29 (S-W)	*****	1
14 (S-BI )	)	30 (S-Y)	0.2873	9
14 (S-BI )	)	31 (S-ZN)	*****	0
14 (S-BI )	)	32 (S-ZR)	*****	0
14 (S-BI )	)	33 (S-TH)	0.7943	4
15 (S-CD )	)	16 (S-CO)	*****	0
15 (S-CD )	)	17 (S-CR)	*****	0
15 (S-CD )	)	18 (S-CU)	*****	0
15 (S-CD )	)	19 (S-LA)	*****	0
15 (S-CD )	)	20 (S-MO)	*****	0
15 (S-CD )	)	21 (S-NB)	*****	0
15 (S-CD )	)	22 (S-NI)	*****	0
15 (S-CD )	)	23 (S-PB)	*****	0
15 (S-CD )	)	24 (S-SB)	*****	0
15 (S-CD )	)	25 (S-SC)	*****	0
15 (S-CD )	)	26 (S-SN)	*****	0
15 (S-CD )	)	27 (S-SR)	*****	0
15 (S-CD )	)	28 (S-V)	*****	0
15 (S-CD )	)	29 (S-W)	*****	0
15 (S-CD )	)	30 (S-Y)	*****	0
15 (S-CD )	)	31 (S-ZN)	*****	0
15 (S-CD )	)	32 (S-ZR)	*****	0
15 (S-CD )	)	33 (S-TH)	*****	0
16 (S-CO )	)	17 (S-CR)	0.0204	40
16 (S-CO )	)	18 (S-CU)	0.1101	10
16 (S-CO )	)	19 (S-LA)	-0.1005	44
16 (S-CO )	)	20 (S-MO)	-0.0378	10
16 (S-CO )	)	21 (S-NB)	0.5120	42
16 (S-CO )	)	22 (S-NI)	0.5212	6
16 (S-CO )	)	23 (S-PB)	0.5534	43
16 (S-CO )	)	24 (S-SB)	*****	1
16 (S-CO )	)	25 (S-SC)	0.5172	44
16 (S-CO )	)	26 (S-SN)	0.1315	24
16 (S-CO )	)	27 (S-SR)	0.4238	15
16 (S-CO )	)	28 (S-V)	0.1877	43
16 (S-CO )	)	29 (S-W)	0.4059	12
16 (S-CO )	)	30 (S-Y)	0.1844	44
16 (S-CO )	)	31 (S-ZN)	*****	1
16 (S-CO )	)	32 (S-ZR)	*****	1
16 (S-CO )	)	33 (S-TH)	0.6450	29
17 (S-CR )	)	18 (S-CU)	0.0377	29
17 (S-CR )	)	19 (S-LA)	0.1094	152
17 (S-CR )	)	20 (S-MO)	-0.1137	26
17 (S-CR )	)	21 (S-NB)	0.1404	111
17 (S-CR )	)	22 (S-NI)	0.2437	32
17 (S-CR )	)	23 (S-PB)	0.0688	143
17 (S-CR )	)	24 (S-SB)	*****	1
17 (S-CR )	)	25 (S-SC)	0.3374	151

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
17 (S-CR )	)	26 (S-SN)	-0.1197	44
17 (S-CR )	)	27 (S-SR)	-0.0063	61
17 (S-CR )	)	28 (S-V)	0.4876	152
17 (S-CR )	)	29 (S-W)	0.5630	15
17 (S-CR )	)	30 (S-Y)	0.3655	152
17 (S-CR )	)	31 (S-ZN)	*****	1
17 (S-CR )	)	32 (S-ZR)	*****	1
17 (S-CR )	)	33 (S-TH)	-0.0523	52
18 (S-CU )	)	19 (S-LA)	0.3464	32
18 (S-CU )	)	20 (S-MO)	0.8449	9
18 (S-CU )	)	21 (S-NB)	-0.1413	21
18 (S-CU )	)	22 (S-NI)	0.4919	8
18 (S-CU )	)	23 (S-PB)	0.3223	31
18 (S-CU )	)	24 (S-SB)	*****	1
18 (S-CU )	)	25 (S-SC)	0.3231	32
18 (S-CU )	)	26 (S-SN)	0.6830	12
18 (S-CU )	)	27 (S-SR)	-0.1220	18
18 (S-CU )	)	28 (S-V)	0.2790	32
18 (S-CU )	)	29 (S-W)	0.3403	6
18 (S-CU )	)	30 (S-Y)	0.2408	32
18 (S-CU )	)	31 (S-ZN)	*****	1
18 (S-CU )	)	32 (S-ZR)	*****	1
18 (S-CU )	)	33 (S-TH)	0.1547	14
19 (S-LA )	)	20 (S-MO)	-0.0638	28
19 (S-LA )	)	21 (S-NB)	-0.0596	117
19 (S-LA )	)	22 (S-NI)	0.0967	35
19 (S-LA )	)	23 (S-PB)	0.0666	166
19 (S-LA )	)	24 (S-SB)	*****	1
19 (S-LA )	)	25 (S-SC)	0.3788	169
19 (S-LA )	)	26 (S-SN)	0.0810	48
19 (S-LA )	)	27 (S-SR)	0.1618	82
19 (S-LA )	)	28 (S-V)	0.4285	172
19 (S-LA )	)	29 (S-W)	0.1478	16
19 (S-LA )	)	30 (S-Y)	0.4384	177
19 (S-LA )	)	31 (S-ZN)	*****	1
19 (S-LA )	)	32 (S-ZR)	0.7377	6
19 (S-LA )	)	33 (S-TH)	-0.2449	57
20 (S-MO )	)	21 (S-NB)	0.3559	23
20 (S-MO )	)	22 (S-NI)	0.4729	9
20 (S-MO )	)	23 (S-PB)	0.7960	26
20 (S-MO )	)	24 (S-SB)	*****	1
20 (S-MO )	)	25 (S-SC)	0.2069	28
20 (S-MO )	)	26 (S-SN)	0.8330	9
20 (S-MO )	)	27 (S-SR)	0.1480	13
20 (S-MO )	)	28 (S-V)	0.1332	28
20 (S-MO )	)	29 (S-W)	0.2635	7
20 (S-MO )	)	30 (S-Y)	0.1260	28
20 (S-MO )	)	31 (S-ZN)	*****	1
20 (S-MO )	)	32 (S-ZR)	*****	0
20 (S-MO )	)	33 (S-TH)	0.4331	16

DC101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
21 (S-NB )	)	22 (S-NI)	0.2091	27
21 (S-NB )	)	23 (S-PB)	0.4059	110
21 (S-NB )	)	24 (S-SB)	*****	1
21 (S-NB )	)	25 (S-SC)	0.5093	116
21 (S-NB )	)	26 (S-SN)	-0.1452	43
21 (S-NB )	)	27 (S-SR)	0.2895	39
21 (S-NB )	)	28 (S-V)	0.1837	117
21 (S-NB )	)	29 (S-W)	0.1083	16
21 (S-NB )	)	30 (S-Y)	0.3701	117
21 (S-NB )	)	31 (S-ZN)	*****	1
21 (S-NB )	)	32 (S-ZR)	*****	1
21 (S-NB )	)	33 (S-TH)	0.6277	50
22 (S-NI )	)	23 (S-PB)	0.2148	32
22 (S-NI )	)	24 (S-SB)	*****	1
22 (S-NI )	)	25 (S-SC)	0.0789	35
22 (S-NI )	)	26 (S-SN)	0.3227	10
22 (S-NI )	)	27 (S-SR)	-0.1395	14
22 (S-NI )	)	28 (S-V)	0.2016	35
22 (S-NI )	)	29 (S-W)	*****	1
22 (S-NI )	)	30 (S-Y)	-0.0423	35
22 (S-NI )	)	31 (S-ZN)	*****	1
22 (S-NI )	)	32 (S-ZR)	*****	0
22 (S-NI )	)	33 (S-TH)	*****	6
23 (S-PB )	)	24 (S-SB)	*****	1
23 (S-PB )	)	25 (S-SC)	0.2544	158
23 (S-PB )	)	26 (S-SN)	0.2201	45
23 (S-PB )	)	27 (S-SR)	0.1533	79
23 (S-PB )	)	28 (S-V)	0.2829	161
23 (S-PB )	)	29 (S-W)	0.4727	16
23 (S-PB )	)	30 (S-Y)	0.1887	166
23 (S-PB )	)	31 (S-ZN)	*****	1
23 (S-PB )	)	32 (S-ZR)	0.3026	6
23 (S-PB )	)	33 (S-TH)	0.5305	55
24 (S-SB )	)	25 (S-SC)	*****	1
24 (S-SB )	)	26 (S-SN)	*****	1
24 (S-SB )	)	27 (S-SR)	*****	1
24 (S-SB )	)	28 (S-V)	*****	1
24 (S-SB )	)	29 (S-W)	*****	0
24 (S-SB )	)	30 (S-Y)	*****	1
24 (S-SB )	)	31 (S-ZN)	*****	1
24 (S-SB )	)	32 (S-ZR)	*****	0
24 (S-SB )	)	33 (S-TH)	*****	0
25 (S-SC )	)	26 (S-SN)	-0.1305	46
25 (S-SC )	)	27 (S-SR)	0.0535	75
25 (S-SC )	)	28 (S-V)	0.4997	168
25 (S-SC )	)	29 (S-W)	0.2970	16
25 (S-SC )	)	30 (S-Y)	0.6477	169
25 (S-SC )	)	31 (S-ZN)	*****	1
25 (S-SC )	)	32 (S-ZR)	*****	2
25 (S-SC )	)	33 (S-TH)	0.5809	57

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
26 (S-SN)	)	27 (S-SR)	0.0039	18
26 (S-SN)	)	28 (S-V)	0.0340	47
26 (S-SN)	)	29 (S-W)	0.5827	9
26 (S-SN)	)	30 (S-Y)	-0.0171	48
26 (S-SN)	)	31 (S-ZN)	*****	1
26 (S-SN)	)	32 (S-ZR)	*****	2
26 (S-SN)	)	33 (S-TH)	0.1803	24
27 (S-SR)	)	28 (S-V)	0.0053	77
27 (S-SR)	)	29 (S-W)	0.4786	14
27 (S-SR)	)	30 (S-Y)	0.0728	82
27 (S-SR)	)	31 (S-ZN)	*****	1
27 (S-SR)	)	32 (S-ZR)	0.3849	6
27 (S-SR)	)	33 (S-TH)	0.0273	26
28 (S-V)	)	29 (S-W)	0.4057	16
28 (S-V)	)	30 (S-Y)	0.4404	172
28 (S-V)	)	31 (S-ZN)	*****	1
28 (S-V)	)	32 (S-ZR)	*****	3
28 (S-V)	)	33 (S-TH)	0.1072	57
29 (S-W)	)	30 (S-Y)	-0.0280	16
29 (S-W)	)	31 (S-ZN)	*****	0
29 (S-W)	)	32 (S-ZR)	*****	1
29 (S-W)	)	33 (S-TH)	0.2570	15
30 (S-Y)	)	31 (S-ZN)	*****	1
30 (S-Y)	)	32 (S-ZR)	0.7972	6
30 (S-Y)	)	33 (S-TH)	0.2697	57
31 (S-ZN)	)	32 (S-ZR)	*****	0
31 (S-ZN)	)	33 (S-TH)	*****	0
32 (S-ZR)	)	33 (S-TH)	*****	1

DC101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

TITLE	INPUT ID -ds-3	N 15	M 38	***** OPTIONS ***** 1 0 1 1 0 0 0 0 0	OUTPUT ID -	N 38	M 38
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NUMBER OF SELECTED COLUMNS 38

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38		

SELECTED COLUMN IDENTIFIERS

x-COORD.	y-COORD.	S-FEX	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P		

NUMBER OF SELECTED ROW PAIRS 1

SELECTED ROW PAIRS
1- 15

LOCKE - THERM

PHASE TWO RESULTS

WARNING *** THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO D0096-FACTOR ANALYSIS.
THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES
WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
9 (S-AS)	)	32 (S-ZR)	*****	0
9 (S-AS)	)	33 (S-TH)	*****	0
10 (S-AU)	)	11 (S-B)	*****	0
10 (S-AU)	)	12 (S-BA)	*****	0
10 (S-AU)	)	13 (S-BE)	*****	0
10 (S-AU)	)	14 (S-BI)	*****	0
10 (S-AU)	)	15 (S-CO)	*****	0
10 (S-AU)	)	16 (S-CO)	*****	0
10 (S-AU)	)	17 (S-CR)	*****	0
10 (S-AU)	)	18 (S-CU)	*****	0
10 (S-AU)	)	19 (S-LA)	*****	0
10 (S-AU)	)	20 (S-MO)	*****	0
10 (S-AU)	)	21 (S-NB)	*****	0
10 (S-AU)	)	22 (S-NI)	*****	0
10 (S-AU)	)	23 (S-PB)	*****	0
10 (S-AU)	)	24 (S-SB)	*****	0
10 (S-AU)	)	25 (S-SC)	*****	0
10 (S-AU)	)	26 (S-SN)	*****	0
10 (S-AU)	)	27 (S-SR)	*****	0
10 (S-AU)	)	28 (S-V)	*****	0
10 (S-AU)	)	29 (S-W)	*****	0
10 (S-AU)	)	30 (S-Y)	*****	0
10 (S-AU)	)	31 (S-ZN)	*****	0
10 (S-AU)	)	32 (S-ZR)	*****	0
10 (S-AU)	)	33 (S-TH)	*****	0
11 (S-B)	)	12 (S-BA)	0.0507	24
11 (S-B)	)	13 (S-BE)	1.0000	2
11 (S-B)	)	14 (S-BI)	-1.0000	2
11 (S-B)	)	15 (S-CO)	*****	0
11 (S-B)	)	16 (S-CO)	-0.4082	5
11 (S-B)	)	17 (S-CR)	-0.2492	21
11 (S-B)	)	18 (S-CU)	0.0000	4
11 (S-B)	)	19 (S-LA)	-0.1679	24
11 (S-B)	)	20 (S-MO)	*****	3
11 (S-B)	)	21 (S-NB)	-0.1545	16
11 (S-B)	)	22 (S-NI)	-0.1843	7
11 (S-B)	)	23 (S-PB)	0.1409	23
11 (S-B)	)	24 (S-SB)	*****	0
11 (S-B)	)	25 (S-SC)	-0.2801	24
11 (S-B)	)	26 (S-SN)	0.5402	7
11 (S-B)	)	27 (S-SR)	-0.2289	9
11 (S-B)	)	28 (S-V)	-0.0568	24
11 (S-B)	)	29 (S-W)	*****	1
11 (S-B)	)	30 (S-Y)	-0.2922	24
11 (S-B)	)	31 (S-ZN)	*****	0
11 (S-B)	)	32 (S-ZR)	*****	0
11 (S-B)	)	33 (S-TH)	*****	5
12 (S-BA)	)	13 (S-BE)	-0.4912	14
12 (S-BA)	)	14 (S-BI)	0.0550	7
12 (S-BA)	)	15 (S-CO)	*****	0

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
12 (S-BA )	) 16 (S-CO )	) -0.0416	44	
12 (S-BA )	) 17 (S-CR )	) -0.3390	150	
12 (S-BA )	) 18 (S-CU )	) 0.0307	31	
12 (S-BA )	) 19 (S-LA )	) -0.0994	173	
12 (S-BA )	) 20 (S-MO )	) 0.2095	27	
12 (S-BA )	) 21 (S-NB )	) -0.2116	114	
12 (S-BA )	) 22 (S-NI )	) 0.1449	34	
12 (S-BA )	) 23 (S-PB )	) -0.1109	163	
12 (S-BA )	) 24 (S-SB )	) ****	1	
12 (S-BA )	) 25 (S-SC )	) -0.1998	165	
12 (S-BA )	) 26 (S-SN )	) 0.1124	48	
12 (S-BA )	) 27 (S-SR )	) -0.0679	78	
12 (S-BA )	) 28 (S-V )	) -0.2138	168	
12 (S-BA )	) 29 (S-W )	) -0.4757	14	
12 (S-BA )	) 30 (S-Y )	) -0.2847	173	
12 (S-BA )	) 31 (S-ZN )	) ****	1	
12 (S-BA )	) 32 (S-ZR )	) 0.0388	6	
12 (S-BA )	) 33 (S-TH )	) -0.2551	55	
13 (S-BE )	) 14 (S-DI )	) ****	0	
13 (S-BE )	) 15 (S-CO )	) ****	0	
13 (S-BE )	) 16 (S-CO )	) -0.4394	6	
13 (S-BE )	) 17 (S-UR )	) 0.2687	8	
13 (S-BE )	) 18 (S-CU )	) -0.5701	4	
13 (S-BE )	) 19 (S-LA )	) 0.3651	14	
13 (S-BE )	) 20 (S-MO )	) -1.0000	2	
13 (S-BE )	) 21 (S-NB )	) 0.0561	6	
13 (S-BE )	) 22 (S-NI )	) ****	2	
13 (S-BE )	) 23 (S-PB )	) 0.3075	14	
13 (S-BE )	) 24 (S-SB )	) ****	0	
13 (S-BE )	) 25 (S-SC )	) 0.2859	13	
13 (S-BE )	) 26 (S-SN )	) -0.6565	4	
13 (S-BE )	) 27 (S-SR )	) 0.3121	9	
13 (S-BE )	) 28 (S-V )	) 0.3210	13	
13 (S-BE )	) 29 (S-W )	) 0.9940	3	
13 (S-BE )	) 30 (S-Y )	) 0.3235	14	
13 (S-BE )	) 31 (S-ZN )	) ****	0	
13 (S-BE )	) 32 (S-ZR )	) ****	3	
13 (S-BE )	) 33 (S-TH )	) -0.7140	5	
14 (S-BI )	) 15 (S-CO )	) ****	0	
14 (S-BI )	) 16 (S-CO )	) ****	2	
14 (S-BI )	) 17 (S-CR )	) -0.1910	6	
14 (S-BI )	) 18 (S-CU )	) -0.7442	3	
14 (S-BI )	) 19 (S-LA )	) 0.2240	9	
14 (S-BI )	) 20 (S-MO )	) -0.0000	2	
14 (S-BI )	) 21 (S-NB )	) 0.2407	7	
14 (S-BI )	) 22 (S-NI )	) ****	1	
14 (S-BI )	) 23 (S-PB )	) -0.3386	9	
14 (S-BI )	) 24 (S-SB )	) ****	0	
14 (S-BI )	) 25 (S-SC )	) -0.2022	8	
14 (S-BI )	) 26 (S-SN )	) 1.0000	2	

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
14	(S-BI	)	27 (S-SR	) -0.2275 4
14	(S-BI	)	28 (S-V	) 0.0471 9
14	(S-BI	)	29 (S-"	) **** 1
14	(S-BI	)	30 (S-Y	) 0.2873 9
14	(S-BI	)	31 (S-ZN	) ***** 0
14	(S-BI	)	32 (S-ZR	) ***** 0
14	(S-BI	)	33 (S-TH	) 0.7943 4
15	(S-CO	)	16 (S-CO	) ***** 0
15	(S-CO	)	17 (S-CR	) ***** 0
15	(S-CO	)	18 (S-CU	) ***** 0
15	(S-CO	)	19 (S-LA	) ***** 0
15	(S-CO	)	20 (S-MO	) ***** 0
15	(S-CO	)	21 (S-NB	) ***** 0
15	(S-CO	)	22 (S-NI	) ***** 0
15	(S-CO	)	23 (S-PB	) ***** 0
15	(S-CO	)	24 (S-SB	) ***** 0
15	(S-CO	)	25 (S-SC	) ***** 0
15	(S-CO	)	26 (S-SN	) ***** 0
15	(S-CO	)	27 (S-SR	) ***** 0
15	(S-CO	)	28 (S-V	) ***** 0
15	(S-CO	)	29 (S-W	) ***** 0
15	(S-CO	)	30 (S-Y	) ***** 0
15	(S-CO	)	31 (S-ZN	) ***** 0
15	(S-CO	)	32 (S-ZR	) ***** 0
15	(S-CO	)	33 (S-TH	) ***** 0
16	(S-CO	)	17 (S-CR	0.0204 40
16	(S-CO	)	18 (S-CU	0.1101 10
16	(S-CO	)	19 (S-LA	-0.1005 44
16	(S-CO	)	20 (S-MO	-0.0378 10
16	(S-CO	)	21 (S-NB	0.5120 42
16	(S-CO	)	22 (S-NI	0.5212 6
16	(S-CO	)	23 (S-PB	0.5534 43
16	(S-CO	)	24 (S-SB	***** 1
16	(S-CO	)	25 (S-SC	0.5172 44
16	(S-CO	)	26 (S-SN	0.1315 24
16	(S-CO	)	27 (S-SR	0.4238 15
16	(S-CO	)	28 (S-V	0.1877 43
16	(S-CO	)	29 (S-W	0.4059 12
16	(S-CO	)	30 (S-Y	0.1844 44
16	(S-CO	)	31 (S-ZN	***** 1
16	(S-CO	)	32 (S-ZR	***** 1
16	(S-CO	)	33 (S-TH	0.6450 29
17	(S-CR	)	18 (S-CU	0.0377 29
17	(S-CR	)	19 (S-LA	0.1094 152
17	(S-CR	)	20 (S-MO	-0.1137 26
17	(S-CR	)	21 (S-NB	0.1404 111
17	(S-CR	)	22 (S-NI	0.2437 32
17	(S-CR	)	23 (S-PB	0.0688 143
17	(S-CR	)	24 (S-SC	***** 1
17	(S-CR	)	25 (S-SC	0.3374 151

DU101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
12 (S-BA )	)	16 (S-CO )	) -0.0416	44
12 (S-BA )	)	17 (S-CR )	) -0.3390	150
12 (S-BA )	)	18 (S-CU )	) 0.0307	31
12 (S-BA )	)	19 (S-LA )	) -0.0994	173
12 (S-BA )	)	20 (S-MO )	) 0.2095	27
12 (S-BA )	)	21 (S-NB )	) -0.2116	114
12 (S-BA )	)	22 (S-NI )	) 0.1449	34
12 (S-BA )	)	23 (S-PB )	) -0.1109	163
12 (S-BA )	)	24 (S-SB )	) *****	1
12 (S-BA )	)	25 (S-SC )	) -0.1998	165
12 (S-BA )	)	26 (S-SN )	) 0.1124	48
12 (S-BA )	)	27 (S-SR )	) -0.0679	78
12 (S-BA )	)	28 (S-V )	) -0.2138	168
12 (S-BA )	)	29 (S-W )	) -0.4757	14
12 (S-BA )	)	30 (S-Y )	) -0.2847	173
12 (S-BA )	)	31 (S-ZN )	) *****	1
12 (S-BA )	)	32 (S-ZR )	) 0.0388	6
12 (S-BA )	)	33 (S-TH )	) -0.2551	55
13 (S-BE )	)	14 (S-BI )	) *****	0
13 (S-BE )	)	15 (S-CD )	) *****	0
13 (S-BE )	)	16 (S-CO )	) -0.4394	6
13 (S-BE )	)	17 (S-CR )	) 0.2687	8
13 (S-BE )	)	18 (S-CU )	) -0.5701	4
13 (S-BE )	)	19 (S-LA )	) 0.3651	14
13 (S-BE )	)	20 (S-MO )	) -1.0000	2
13 (S-BE )	)	21 (S-NB )	) 0.0561	6
13 (S-BE )	)	22 (S-NI )	) *****	2
13 (S-BE )	)	23 (S-PB )	) 0.3075	14
13 (S-BE )	)	24 (S-SB )	) *****	0
13 (S-BE )	)	25 (S-SC )	) 0.2859	13
13 (S-BE )	)	26 (S-SN )	) -0.6565	4
13 (S-BE )	)	27 (S-SR )	) 0.3121	9
13 (S-BE )	)	28 (S-V )	) 0.3210	13
13 (S-BE )	)	29 (S-W )	) 0.9940	3
13 (S-BE )	)	30 (S-Y )	) 0.3235	14
13 (S-BE )	)	31 (S-ZN )	) *****	0
13 (S-BE )	)	32 (S-ZR )	) *****	3
13 (S-BE )	)	33 (S-TH )	) -0.7140	5
14 (S-BI )	)	15 (S-CD )	) *****	0
14 (S-BI )	)	16 (S-CO )	) *****	2
14 (S-BI )	)	17 (S-CR )	) -0.1910	6
14 (S-BI )	)	18 (S-CU )	) -0.7442	3
14 (S-BI )	)	19 (S-LA )	) 0.2240	9
14 (S-BI )	)	20 (S-MO )	) -1.0000	2
14 (S-BI )	)	21 (S-NB )	) 0.2407	7
14 (S-BI )	)	22 (S-NI )	) *****	1
14 (S-BI )	)	23 (S-PB )	) -0.3386	9
14 (S-BI )	)	24 (S-SB )	) *****	0
14 (S-BI )	)	25 (S-SC )	) -0.2022	8
14 (S-BI )	)	26 (S-SN )	) 1.0000	2

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (X-COORD.)	2 (Y-COORD.)		-0.0831	177
1 (X-COORD.)	3 (S-FE%)		0.1155	177
1 (X-COORD.)	4 (S-MG%)		0.2038	177
1 (X-COORD.)	5 (S-CA%)		-0.3799	177
1 (X-COORD.)	6 (S-T1%)		-0.0526	99
1 (X-COORD.)	7 (S-MN)		0.1070	177
1 (X-COORD.)	8 (S-AG)		0.4934	17
1 (X-COORD.)	9 (S-AS)		*****	1
1 (X-COORD.)	10 (S-AU)		*****	0
1 (X-COORD.)	11 (S-B)		-0.3212	24
1 (X-COORD.)	12 (S-BA)		-0.0143	173
1 (X-COORD.)	13 (S-BE)		-0.8577	14
1 (X-COORD.)	14 (S-BI)		-0.2726	9
1 (X-COORD.)	15 (S-CD)		*****	0
1 (X-COORD.)	16 (S-CO)		-0.0734	44
1 (X-COORD.)	17 (S-CR)		0.1038	152
1 (X-COORD.)	18 (S-CU)		-0.0697	32
1 (X-COORD.)	19 (S-LA)		-0.2044	177
1 (X-COORD.)	20 (S-MO)		-0.4084	28
1 (X-COORD.)	21 (S-NB)		-0.3123	117
1 (X-COORD.)	22 (S-NI)		-0.1675	35
1 (X-COORD.)	23 (S-PB)		-0.1966	166
1 (X-COORD.)	24 (S-SB)		*****	1
1 (X-COORD.)	25 (S-SC)		-0.0725	169
1 (X-COORD.)	26 (S-SN)		0.1715	48
1 (X-COORD.)	27 (S-SR)		-0.0073	82
1 (X-COORD.)	28 (S-V)		-0.2409	172
1 (X-COORD.)	29 (S-W)		-0.0018	16
1 (X-COORD.)	30 (S-Y)		0.1583	177
1 (X-COORD.)	31 (S-ZN)		*****	1
1 (X-COORD.)	32 (S-ZR)		0.3064	6
1 (X-COORD.)	33 (S-TH)		-0.3385	57
2 (Y-COORD.)	3 (S-FE%)		-0.0410	177
2 (Y-COORD.)	4 (S-MG%)		0.0429	177
2 (Y-COORD.)	5 (S-CA%)		0.0953	177
2 (Y-COORD.)	6 (S-T1%)		-0.0035	99
2 (Y-COORD.)	7 (S-MN)		0.0356	177
2 (Y-COORD.)	8 (S-AG)		-0.1748	17
2 (Y-COORD.)	9 (S-AS)		*****	1
2 (Y-COORD.)	10 (S-AU)		*****	0
2 (Y-COORD.)	11 (S-B)		0.3495	24
2 (Y-COORD.)	12 (S-BA)		-0.0680	173
2 (Y-COORD.)	13 (S-BE)		0.5744	14
2 (Y-COORD.)	14 (S-BI)		0.3279	9
2 (Y-COORD.)	15 (S-CD)		*****	0
2 (Y-COORD.)	16 (S-CO)		0.4063	44
2 (Y-COORD.)	17 (S-CR)		0.1052	152
2 (Y-COORD.)	18 (S-CU)		0.0686	32
2 (Y-COORD.)	19 (S-LA)		0.0654	177
2 (Y-COORD.)	20 (S-MO)		0.0528	28

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (Y-COORD.)	21 (S-NB )	)	0.5459	117
2 (Y-COORD.)	22 (S-NI )	)	0.0821	35
2 (Y-COORD.)	23 (S-PB )	)	0.0227	166
2 (Y-COORD.)	24 (S-SB )	)	*****	1
2 (Y-COORD.)	25 (S-SC )	)	0.0833	169
2 (Y-COORD.)	26 (S-SN )	)	-0.1066	48
2 (Y-COORD.)	27 (S-SR )	)	-0.0131	82
2 (Y-COORD.)	28 (S-V )	)	0.0617	172
2 (Y-COORD.)	29 (S-W )	)	0.2695	16
2 (Y-COORD.)	30 (S-Y )	)	0.0080	177
2 (Y-COORD.)	31 (S-ZN )	)	*****	1
2 (Y-COORD.)	32 (S-ZR )	)	0.0919	6
2 (Y-COORD.)	33 (S-TH )	)	0.7403	57
3 (S-FEX)	4 (S-MG%	)	0.2164	177
3 (S-FEX)	5 (S-CA%	)	-0.1639	177
3 (S-FEX)	6 (S-TI%)	)	-0.0735	99
3 (S-FEX)	7 (S-MN )	)	0.3600	177
3 (S-FEX)	8 (S-AG )	)	-0.0356	17
3 (S-FEX)	9 (S-AS )	)	*****	1
3 (S-FEX)	10 (S-AU )	)	*****	0
3 (S-FEX)	11 (S-B )	)	0.2976	24
3 (S-FEX)	12 (S-BA )	)	0.1773	173
3 (S-FEX)	13 (S-BE )	)	-0.7128	14
3 (S-FEX)	14 (S-BI )	)	-0.3840	9
3 (S-FEX)	15 (S-CD )	)	*****	0
3 (S-FEX)	16 (S-CO )	)	-0.0343	44
3 (S-FEX)	17 (S-CR )	)	0.1160	152
3 (S-FEX)	18 (S-CU )	)	0.2565	32
3 (S-FEX)	19 (S-LA )	)	0.0304	177
3 (S-FEX)	20 (S-MO )	)	-0.1085	28
3 (S-FEX)	21 (S-NB )	)	-0.1484	117
3 (S-FEX)	22 (S-NI )	)	0.2037	35
3 (S-FEX)	23 (S-PB )	)	0.0493	166
3 (S-FEX)	24 (S-SB )	)	*****	1
3 (S-FEX)	25 (S-SC )	)	0.0963	169
3 (S-FEX)	26 (S-SN )	)	0.0498	48
3 (S-FEX)	27 (S-SR )	)	-0.0730	82
3 (S-FEX)	28 (S-V )	)	0.0987	172
3 (S-FEX)	29 (S-W )	)	-0.4491	16
3 (S-FEX)	30 (S-Y )	)	0.0205	177
3 (S-FEX)	31 (S-ZN )	)	*****	1
3 (S-FEX)	32 (S-ZR )	)	0.5423	6
3 (S-FEX)	33 (S-TH )	)	-0.2390	57
4 (S-MG%)	5 (S-CA%)	)	0.0433	177
4 (S-MG%)	6 (S-TI%)	)	0.2164	99
4 (S-MG%)	7 (S-MN )	)	0.1754	177
4 (S-MG%)	8 (S-AG )	)	0.3340	17
4 (S-MG%)	9 (S-AS )	)	*****	1
4 (S-MG%)	10 (S-AU )	)	*****	0
4 (S-MG%)	11 (S-B )	)	0.0772	24

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
4 (S-MG%	)	12 (S-BA)	0.0158	173
4 (S-MG%	)	13 (S-BE)	-0.5087	14
4 (S-MG%	)	14 (S-BI)	0.0587	9
4 (S-MG%	)	15 (S-CD)	*****	0
4 (S-MG%	)	16 (S-CO)	-0.3664	44
4 (S-MG%	)	17 (S-CR)	0.3026	152
4 (S-MG%	)	18 (S-CU)	-0.1867	32
4 (S-MG%	)	19 (S-LA)	0.0786	177
4 (S-MG%	)	20 (S-MO)	-0.6184	28
4 (S-MG%	)	21 (S-NB)	-0.4915	117
4 (S-MG%	)	22 (S-NI)	0.4345	35
4 (S-MG%	)	23 (S-PB)	-0.3228	166
4 (S-MG%	)	24 (S-SB)	*****	1
4 (S-MG%	)	25 (S-SC)	-0.1977	169
4 (S-MG%	)	26 (S-SN)	0.0609	48
4 (S-MG%	)	27 (S-SR)	-0.1339	82
4 (S-MG%	)	28 (S-V)	0.1384	172
4 (S-MG%	)	29 (S-W)	-0.1504	16
4 (S-MG%	)	30 (S-Y)	0.0869	177
4 (S-MG%	)	31 (S-ZN)	*****	1
4 (S-MG%	)	32 (S-ZR)	0.4369	6
4 (S-MG%	)	33 (S-TH)	-0.6071	57
5 (S-CA%	)	6 (S-TI%	0.4327	99
5 (S-CA%)	)	7 (S-MN)	0.0896	177
5 (S-CA%)	)	8 (S-AG)	-0.6840	17
5 (S-CA%)	)	9 (S-AS)	*****	1
5 (S-CA%)	)	10 (S-AU)	*****	0
5 (S-CA%)	)	11 (S-B)	-0.2249	24
5 (S-CA%)	)	12 (S-BA)	-0.0981	173
5 (S-CA%)	)	13 (S-BE)	0.5637	14
5 (S-CA%)	)	14 (S-BI)	0.2007	9
5 (S-CA%)	)	15 (S-CD)	*****	0
5 (S-CA%)	)	16 (S-CO)	0.0965	44
5 (S-CA%)	)	17 (S-CR)	0.0270	152
5 (S-CA%)	)	18 (S-CU)	-0.0190	32
5 (S-CA%)	)	19 (S-LA)	0.7044	177
5 (S-CA%)	)	20 (S-MO)	0.1438	28
5 (S-CA%)	)	21 (S-NB)	0.1405	117
5 (S-CA%)	)	22 (S-NI)	-0.0377	35
5 (S-CA%)	)	23 (S-PB)	0.1661	166
5 (S-CA%)	)	24 (S-SB)	*****	1
5 (S-CA%)	)	25 (S-SC)	0.2198	169
5 (S-CA%)	)	26 (S-SN)	-0.1901	48
5 (S-CA%)	)	27 (S-SR)	0.2440	82
5 (S-CA%)	)	28 (S-V)	0.3461	172
5 (S-CA%)	)	29 (S-W)	0.2043	16
5 (S-CA%)	)	30 (S-Y)	0.2705	177
5 (S-CA%)	)	31 (S-ZN)	*****	1
5 (S-CA%)	)	32 (S-ZR)	0.5142	6
5 (S-CA%)	)	33 (S-TH)	0.1307	57

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
6 (S-TIZ )	)	7 (S-MN )	) 0.4641	99
6 (S-TIZ )	)	8 (S-AG )	) *****	3
6 (S-TIZ )	)	9 (S-AS )	) *****	1
6 (S-TIZ )	)	10 (S-AU )	) *****	0
6 (S-TIZ )	)	11 (S-B )	) -0.2960	14
6 (S-TIZ )	)	12 (S-BA )	) -0.0384	96
6 (S-TIZ )	)	13 (S-BE )	) 0.3303	11
6 (S-TIZ )	)	14 (S-BI )	) 0.2513	5
6 (S-TIZ )	)	15 (S-CD )	) *****	0
6 (S-TIZ )	)	16 (S-CO )	) 0.2089	8
6 (S-TIZ )	)	17 (S-CR )	) 0.2881	77
6 (S-TIZ )	)	18 (S-CU )	) 0.0401	14
6 (S-TIZ )	)	19 (S-LA )	) 0.5251	99
6 (S-TIZ )	)	20 (S-MO )	) 0.2037	16
6 (S-TIZ )	)	21 (S-NB )	) 0.1935	44
6 (S-TIZ )	)	22 (S-NI )	) 0.1400	16
6 (S-TIZ )	)	23 (S-PB )	) 0.1681	94
6 (S-TIZ )	)	24 (S-SB )	) *****	1
6 (S-TIZ )	)	25 (S-SC )	) 0.4753	91
6 (S-TIZ )	)	26 (S-SN )	) 0.1826	11
6 (S-TIZ )	)	27 (S-SR )	) -0.0644	62
6 (S-TIZ )	)	28 (S-V )	) 0.5844	94
6 (S-TIZ )	)	29 (S-W )	) *****	2
6 (S-TIZ )	)	30 (S-Y )	) 0.6574	99
6 (S-TIZ )	)	31 (S-ZH )	) *****	1
6 (S-TIZ )	)	32 (S-ZR )	) 0.8180	6
6 (S-TIZ )	)	33 (S-TH )	) 0.3299	16
7 (S-MN )	)	8 (S-AG )	) 0.2565	17
7 (S-MN )	)	9 (S-AS )	) *****	1
7 (S-MN )	)	10 (S-AU )	) *****	0
7 (S-MN )	)	11 (S-B )	) 0.1260	24
7 (S-MN )	)	12 (S-BA )	) -0.1952	173
7 (S-MN )	)	13 (S-BE )	) 0.1930	14
7 (S-MN )	)	14 (S-BI )	) -0.2541	9
7 (S-MN )	)	15 (S-CD )	) *****	0
7 (S-MN )	)	16 (S-CO )	) 0.0624	44
7 (S-MN )	)	17 (S-CR )	) 0.3147	152
7 (S-MN )	)	18 (S-CU )	) 0.3521	32
7 (S-MN )	)	19 (S-LA )	) 0.2701	177
7 (S-MN )	)	20 (S-MO )	) 0.3228	28
7 (S-MN )	)	21 (S-NB )	) 0.1037	117
7 (S-MN )	)	22 (S-NI )	) -0.0739	35
7 (S-MN )	)	23 (S-PB )	) 0.2747	166
7 (S-MN )	)	24 (S-SB )	) *****	1
7 (S-MN )	)	25 (S-SC )	) 0.4704	169
7 (S-MN )	)	26 (S-SN )	) 0.0672	48
7 (S-MN )	)	27 (S-SR )	) -0.0303	82
7 (S-MN )	)	28 (S-V )	) 0.4303	172
7 (S-MN )	)	29 (S-W )	) 0.2617	16
7 (S-MN )	)	30 (S-Y )	) 0.6429	177

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
7 (S-MN)	31 (S-ZN )	)	*****	1
7 (S-MN)	32 (S-ZR )	)	0.6789	6
7 (S-MN)	33 (S-TH )	)	0.0494	57
8 (S-AG)	9 (S-AS )	)	*****	0
8 (S-AG)	10 (S-AU )	)	*****	0
8 (S-AG)	11 (S-B )	)	*****	1
8 (S-AG)	12 (S-BA )	)	0.2022	17
8 (S-AG)	13 (S-BE )	)	*****	1
8 (S-AG)	14 (S-BI )	)	*****	0
8 (S-AG)	15 (S-CD )	)	*****	0
8 (S-AG)	16 (S-CO )	)	0.3424	7
8 (S-AG)	17 (S-CR )	)	0.1328	15
8 (S-AG)	18 (S-CU )	)	-0.0780	8
8 (S-AG)	19 (S-LA )	)	-0.2217	17
8 (S-AG)	20 (S-MO )	)	0.8015	7
8 (S-AG)	21 (S-NB )	)	-0.1621	15
8 (S-AG)	22 (S-NI )	)	0.2710	5
8 (S-AG)	23 (S-PB )	)	-0.1074	14
8 (S-AG)	24 (S-SB )	)	*****	1
8 (S-AG)	25 (S-SC )	)	0.1785	17
8 (S-AG)	26 (S-SN )	)	0.8919	7
8 (S-AG)	27 (S-SR )	)	-0.1216	5
8 (S-AG)	28 (S-V )	)	-0.0863	17
8 (S-AG)	29 (S-W )	)	0.0375	3
8 (S-AG)	30 (S-Y )	)	0.0110	17
8 (S-AG)	31 (S-ZN )	)	*****	1
8 (S-AG)	32 (S-ZR )	)	*****	0
8 (S-AG)	33 (S-TH )	)	-0.0575	13
9 (S-AS)	10 (S-AU )	)	*****	0
9 (S-AS)	11 (S-B )	)	*****	0
9 (S-AS)	12 (S-BA )	)	*****	1
9 (S-AS)	13 (S-BE )	)	*****	0
9 (S-AS)	14 (S-BI )	)	*****	0
9 (S-AS)	15 (S-CD )	)	*****	0
9 (S-AS)	16 (S-CO )	)	*****	0
9 (S-AS)	17 (S-CR )	)	*****	1
9 (S-AS)	18 (S-CU )	)	*****	0
9 (S-AS)	19 (S-LA )	)	*****	1
9 (S-AS)	20 (S-MO )	)	*****	0
9 (S-AS)	21 (S-NB )	)	*****	0
9 (S-AS)	22 (S-NI )	)	*****	0
9 (S-AS)	23 (S-PB )	)	*****	1
9 (S-AS)	24 (S-SB )	)	*****	0
9 (S-AS)	25 (S-SC )	)	*****	1
9 (S-AS)	26 (S-SN )	)	*****	0
9 (S-AS)	27 (S-SR )	)	*****	1
9 (S-AS)	28 (S-V )	)	*****	1
9 (S-AS)	29 (S-W )	)	*****	0
9 (S-AS)	30 (S-Y )	)	*****	1
9 (S-AS)	31 (S-ZN )	)	*****	0

ARRAY OF VARIANCES -

ARRAY OF VARIANCES - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CB	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	0.000	0.000	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000
2 Y-COORD.	0.000	0.005	0.000	0.000	*****	0.000	0.006	0.027	0.005	0.030
3 S-FEX	0.036	0.036	0.035	0.042	*****	0.054	0.038	0.038	0.037	0.038
4 S-MGX	0.062	0.083	0.077	0.172	*****	0.125	0.076	0.112	0.083	0.129
5 S-CAX	0.051	0.061	0.090	0.085	*****	0.033	0.046	0.048	0.063	0.053
6 S-TIX	0.017	0.044	0.070	0.015	*****	0.085	0.015	0.004	0.043	0.014
7 S-MN	0.024	0.028	0.031	0.051	*****	0.030	0.025	0.026	0.029	0.034
8 S-AG	*****	0.461	*****	*****	*****	0.506	0.414	0.485	0.461	0.382
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.016	0.016	0.016	0.016	*****	0.006	0.012	0.010	0.016	0.010
12 S-6A	0.065	0.155	0.242	0.377	*****	0.133	0.142	0.289	0.155	0.212
13 S-BE	0.016	0.139	0.139	*****	*****	0.238	0.223	0.008	0.139	0.692
14 S-BI	0.137	0.150	*****	0.126	*****	0.012	0.126	0.128	0.126	0.114
15 S-CO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	0.009	0.009	0.015	0.000	*****	0.009	0.009	0.015	0.009	0.013
17 S-CR	0.052	0.041	0.031	0.032	*****	0.034	0.041	0.035	0.041	0.038
18 S-CU	0.010	0.319	0.602	0.010	*****	0.527	0.297	0.313	0.313	0.295
19 S-LA	0.050	0.072	0.081	0.108	*****	0.051	0.056	0.048	0.073	0.055
20 S-MO	0.000	0.304	0.016	0.224	*****	0.426	0.305	0.420	0.296	0.296
21 S-NB	0.018	0.020	0.016	0.013	*****	0.021	0.019	0.021	0.020	0.028
22 S-NI	0.022	0.009	0.000	*****	*****	0.022	0.010	0.013	0.009	0.018
23 S-PB	0.195	0.370	0.665	0.308	*****	0.600	0.385	0.716	0.366	0.736
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.040	0.058	0.077	0.039	*****	0.039	0.054	0.079	0.057	0.064
26 S-SN	0.102	0.126	0.225	0.079	*****	0.130	0.133	0.289	0.126	0.159
27 S-SR	0.049	0.036	0.028	0.005	*****	0.031	0.038	0.031	0.041	0.043
28 S-V	0.019	0.028	0.042	0.057	*****	0.015	0.023	0.029	0.027	0.017
29 S-W	*****	0.090	0.023	*****	*****	0.076	0.089	0.102	0.084	0.119
30 S-Y	0.067	0.088	0.141	0.178	*****	0.058	0.061	0.064	0.088	0.089
31 S-ZN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 S-ZR	*****	0.003	0.000	*****	*****	*****	*****	*****	0.003	*****
33 S-TH	0.184	0.220	0.072	0.078	*****	0.169	0.196	0.271	0.217	0.253

ARRAY OF VARIANCES - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	0.000	0.000	0.000	*****	0.000	0.000	0.000	0.000	0.000	0.000
2 Y-COORD.	0.000	0.024	0.005	*****	0.005	0.000	0.000	0.005	0.000	0.005
3 S-FEZ	0.034	0.062	0.036	*****	0.038	0.052	0.030	0.038	0.027	0.037
4 S-MGX	0.083	0.051	0.087	*****	0.083	0.076	0.089	0.082	0.038	0.083
5 S-CAZ	0.037	0.045	0.063	*****	0.056	0.025	0.096	0.054	0.030	0.063
6 S-TIX	0.004	0.017	0.045	*****	0.023	0.033	0.058	0.024	0.000	0.043
7 S-MN	0.025	0.038	0.028	*****	0.027	0.030	0.023	0.027	0.019	0.029
8 S-AG	0.498	0.628	0.506	*****	0.461	0.401	0.387	0.461	0.389	0.461
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	0.014	0.035	0.016	*****	0.016	0.009	0.020	0.016	*****	0.016
12 S-BA	0.129	0.229	0.159	*****	0.161	0.106	0.190	0.159	0.021	0.155
13 S-BE	0.238	0.000	0.139	*****	0.147	0.173	0.087	0.147	0.128	0.139
14 S-BI	0.160	*****	0.126	*****	0.092	0.068	0.042	0.126	*****	0.126
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	0.009	0.009	0.009	*****	0.009	0.011	0.011	0.009	0.011	0.009
17 S-CR	0.036	0.059	0.041	*****	0.041	0.035	0.042	0.041	0.024	0.041
18 S-CU	0.365	0.365	0.311	*****	0.313	0.273	0.292	0.313	0.137	0.313
19 S-LA	0.050	0.062	0.074	*****	0.065	0.056	0.112	0.065	0.066	0.073
20 S-MO	0.330	0.307	0.303	*****	0.296	0.462	0.283	0.296	0.200	0.296
21 S-NB	0.020	0.009	0.021	*****	0.020	0.020	0.023	0.020	0.019	0.020
22 S-NI	0.011	0.009	0.009	*****	0.009	0.017	0.014	0.009	*****	0.009
23 S-PB	0.448	0.464	0.366	*****	0.380	0.557	0.366	0.375	0.526	0.366
24 S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
25 S-SC	0.046	0.047	0.057	*****	0.057	0.048	0.063	0.056	0.052	0.057
26 S-SN	0.091	0.147	0.134	*****	0.132	0.126	0.055	0.129	0.034	0.126
27 S-SR	0.041	0.052	0.039	*****	0.041	0.041	0.041	0.041	0.048	0.041
28 S-V	0.019	0.025	0.027	*****	0.025	0.020	0.041	0.027	0.021	0.027
29 S-W	0.084	*****	0.084	*****	0.084	0.098	0.090	0.084	0.084	0.084
30 S-Y	0.056	0.070	0.088	*****	0.067	0.073	0.087	0.072	0.049	0.088
31 S-ZN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 S-ZR	*****	*****	0.003	*****	0.000	0.000	0.003	0.000	*****	0.003
33 S-TH	0.214	0.084	0.218	*****	0.217	0.192	0.186	0.217	0.076	0.217

ARRAY OF VARIANCES - CONT.

	31 S-ZN	32 S-ZR	33 S-TH
1 X-COORD.	*****	0.000	0.000
2 Y-COORD.	*****	0.000	0.000
3 S-FEX	*****	0.018	0.027
4 S-MGX	*****	0.063	0.139
5 S-CAZ	*****	0.018	0.043
6 S-TIX	*****	0.101	0.004
7 S-MN	*****	0.014	0.025
8 S-AG	*****	*****	0.484
9 S-AS	*****	*****	*****
10 S-AU	*****	*****	*****
11 S-B	*****	*****	0.000
12 S-BA	*****	0.028	0.148
13 S-BE	*****	0.010	0.240
14 S-BI	*****	*****	0.042
15 S-CD	*****	*****	*****
16 S-CO	*****	*****	0.011
17 S-CR	*****	*****	0.033
18 S-CU	*****	*****	0.239
19 S-LA	*****	0.067	0.054
20 S-MO	*****	*****	0.273
21 S-NB	*****	*****	0.025
22 S-NI	*****	*****	0.000
23 S-PB	*****	0.025	0.524
24 S-SB	*****	*****	*****
25 S-SC	*****	0.016	0.055
26 S-SN	*****	0.025	0.073
27 S-SR	*****	0.025	0.047
28 S-V	*****	0.040	0.019
29 S-W	*****	*****	0.084
30 S-Y	*****	0.065	0.059
31 S-ZN	*****	*****	*****
32 S-ZR	*****	0.003	*****
33 S-TH	*****	*****	0.217

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
28 (S-V )	)	35 (AA-ZN-P)	0.4057	177
28 (S-V )	)	36 (AA-SB-P)	-0.4263	39
29 (S-W )	)	30 (S-Y)	*****	0
29 (S-W )	)	31 (S-ZN)	*****	0
29 (S-W )	)	32 (S-ZR)	*****	0
29 (S-W )	)	33 (S-TH)	*****	0
29 (S-W )	)	34 (AA-AS-P)	*****	0
29 (S-W )	)	35 (AA-ZN-P)	*****	0
29 (S-W )	)	36 (AA-SB-P)	*****	0
30 (S-Y )	)	31 (S-ZN)	*****	1
30 (S-Y )	)	32 (S-ZR)	0.3820	177
30 (S-Y )	)	33 (S-TH)	*****	0
30 (S-Y )	)	34 (AA-AS-P)	0.0391	153
30 (S-Y )	)	35 (AA-ZN-P)	0.2947	177
30 (S-Y )	)	36 (AA-SB-P)	-0.1454	39
31 (S-ZN )	)	32 (S-ZR)	*****	1
31 (S-ZN )	)	33 (S-TH)	*****	0
31 (S-ZN )	)	34 (AA-AS-P)	*****	1
31 (S-ZN )	)	35 (AA-ZN-P)	*****	1
31 (S-ZN )	)	36 (AA-SB-P)	*****	0
32 (S-ZR )	)	33 (S-TH)	*****	0
32 (S-ZR )	)	34 (AA-AS-P)	0.1620	153
32 (S-ZR )	)	35 (AA-ZN-P)	0.2785	177
32 (S-ZR )	)	36 (AA-SB-P)	-0.3845	39
33 (S-TH )	)	34 (AA-AS-P)	*****	0
33 (S-TH )	)	35 (AA-ZN-P)	*****	0
33 (S-TH )	)	36 (AA-SB-P)	*****	0
34 (AA-AS-P )	)	35 (AA-ZN-P)	0.1978	153
34 (AA-AS-P )	)	36 (AA-SB-P)	0.0830	32
35 (AA-ZN-P )	)	36 (AA-SB-P)	0.2720	39

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

TITLE	INPUT ID	N	M	***** OPTIONS *****	OUTPUT ID	N	M
-ds-2	-	177	33	1 0 1 1 0 0 0 0 0 0	-	33	33

NUMBER OF SELECTED COLUMNS 33

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33							

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZR	S-ZR	S-TH							

NUMBER OF SELECTED ROW PAIRS 1

SELECTED ROW PAIRS

1- 177

DATA MATRIX

GRAMIAN

PHASE TWO RESULTS

WARNING *** THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO D0096-FACTOR ANALYSIS.
THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES
WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

ARRAY OF MEANS -

	1 X-COORD.	2 Y-COORD.	3 S-FEX	4 S-MG%	5 S-CA%	6 S-TIX	7 S-MN	8 S-AG	9 S-AS	10 S-AU
1 X-COORD.	4.6804	4.6804	4.6804	4.6804	4.6804	4.6813	4.6804	4.6779	4.6907	*****
2 Y-COORD.	5.6087	5.6087	5.6087	5.6087	5.6087	5.6044	5.6087	5.6146	5.6147	*****
3 S-FEX	-0.2558	-0.2558	-0.2558	-0.2558	-0.2558	-0.2536	-0.2558	-0.1831	-0.5229	*****
4 S-MG%	-0.3409	-0.3409	-0.3409	-0.3409	-0.3409	-0.3447	-0.3409	-0.4523	-0.3010	*****
5 S-CA%	0.7880	0.7880	0.7880	0.7880	0.7880	0.7409	0.7880	0.8839	0.6990	*****
6 S-TIX	0.1697	0.1697	0.1697	0.1697	0.1697	0.1697	0.1697	0.3010	0.3010	*****
7 S-MN	2.5526	2.5526	2.5526	2.5526	2.5526	2.4953	2.5526	2.6853	2.3010	*****
8 S-AG	1.0461	1.0461	1.0461	1.0461	1.0461	1.2177	1.0461	1.0461	1.0461	*****
9 S-AS	2.6990	2.6990	2.6990	2.6990	2.6990	2.6990	2.6990	2.6990	2.6990	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.3856	1.3856	1.3856	1.3856	1.3856	1.3923	1.3856	1.3010	1.3010	*****
12 S-BA	2.6595	2.6595	2.6595	2.6595	2.6595	2.7727	2.6595	2.4879	2.4771	*****
13 S-BE	0.5011	0.5011	0.5011	0.5011	0.5011	0.4400	0.5011	0.3010	1.0461	*****
14 S-BI	1.8689	1.8689	1.8689	1.8689	1.8689	1.7599	1.8689	1.8689	1.8689	*****
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	1.0657	1.0657	1.0657	1.0657	1.0657	1.0596	1.0657	1.1436	1.1436	*****
17 S-CR	1.5597	1.5597	1.5597	1.5597	1.5597	1.4459	1.5597	1.6798	1.3010	*****
18 S-CU	1.3833	1.3833	1.3833	1.3833	1.3833	1.3953	1.3833	1.7386	1.7386	*****
19 S-LA	2.5374	2.5374	2.5374	2.5374	2.5374	2.4722	2.5374	2.6277	2.3010	*****
20 S-MO	1.4376	1.4376	1.4376	1.4376	1.4376	1.4341	1.4376	1.8853	1.8853	*****
21 S-NB	1.8162	1.8162	1.8162	1.8162	1.8162	1.7461	1.8162	1.8500	1.8500	*****
22 S-NI	1.0459	1.0459	1.0459	1.0459	1.0459	1.0596	1.0459	1.0602	1.0602	*****
23 S-PB	1.8341	1.8341	1.8341	1.8341	1.8341	1.7574	1.8341	2.7822	1.6990	*****
24 S-SB	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	*****
25 S-SC	1.4273	1.4273	1.4273	1.4273	1.4273	1.3101	1.4273	1.5996	1.0000	*****
26 S-SN	1.6124	1.6124	1.6124	1.6124	1.6124	1.7958	1.6124	1.7264	1.7264	*****
27 S-SR	2.5298	2.5298	2.5298	2.5298	2.5298	2.5244	2.5298	2.5659	2.4771	*****
28 S-V	1.8224	1.8224	1.8224	1.8224	1.8224	1.7416	1.8224	1.9205	1.4771	*****
29 S-W	2.2971	2.2971	2.2971	2.2971	2.2971	2.0880	2.2971	2.3333	2.3333	*****
30 S-Y	2.5100	2.5100	2.5100	2.5100	2.5100	2.3773	2.5100	2.7006	2.3010	*****
31 S-ZN	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	*****
32 S-ZR	3.2802	3.2802	3.2802	3.2802	3.2802	3.2802	3.2802	3.2802	3.2802	*****
33 S-TH	2.8023	2.8023	2.8023	2.8023	2.8023	2.6043	2.8023	2.8062	2.8062	*****

ARRAY OF MEANS - CONT.

	11 S-B	12 S-BA	13 S-BE	14 S-BI	15 S-CD	16 S-CO	17 S-CR	18 S-CU	19 S-LA	20 S-MO
1 X-COORD.	4.6841	4.6807	4.6778	4.6751	*****	4.6754	4.6805	4.6804	4.6804	4.6766
2 Y-COORD.	5.6138	5.6086	5.6138	5.6142	*****	5.6144	5.6079	5.5854	5.6087	5.5813
3 S-FEZ	-0.2118	-0.2533	-0.2605	-0.1682	*****	-0.2344	-0.2550	-0.2218	-0.2558	-0.2487
4 S-MGX	-0.2287	-0.3352	-0.5912	-0.5002	*****	-0.4522	-0.3008	-0.3855	-0.3409	-0.5109
5 S-CAZ	0.6990	0.7851	0.6088	0.8527	*****	0.8564	0.8148	0.8110	0.7880	0.8614
6 S-TIZ	0.1793	0.1669	0.0658	0.1908	*****	0.1980	0.2309	0.2564	0.1697	0.2491
7 S-MN	2.6236	2.5574	2.5006	2.5700	*****	2.6302	2.5746	2.5999	2.5526	2.5978
8 S-AG	1.6990	1.0461	1.4771	*****	*****	1.0282	1.1538	1.2830	1.0461	1.0491
9 S-AS	*****	2.6990	*****	*****	*****	*****	2.6990	*****	*****	2.6990
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.3856	1.3856	1.3891	1.3891	*****	1.3362	1.3703	1.3891	1.3856	1.4184
12 S-BA	2.5960	2.6595	2.8291	2.8189	*****	2.5246	2.6275	2.7478	2.6595	2.6348
13 S-BE	0.3891	0.5011	0.5011	*****	*****	0.7386	0.6072	0.3451	0.5011	0.8891
14 S-BI	1.7386	1.8285	*****	1.8689	*****	1.9225	1.9457	1.7841	1.8689	1.9375
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	1.0704	1.0657	1.0502	1.0000	*****	1.0657	1.0679	1.1306	1.0657	1.1483
17 S-CR	1.6315	1.5620	1.4445	1.4924	*****	1.6437	1.5597	1.5679	1.5597	1.5098
18 S-CU	1.0880	1.3957	1.6633	1.0587	*****	1.6306	1.3660	1.5833	1.3833	1.4008
19 S-LA	2.5257	2.5317	2.4111	2.7072	*****	2.6108	2.5732	2.5617	2.5374	2.6389
20 S-MO	1.0000	1.4473	2.3891	1.5106	*****	1.8130	1.4387	1.6305	1.4376	1.4376
21 S-NB	1.8024	1.8180	1.9240	1.8046	*****	1.9379	1.8128	1.8494	1.8162	1.8779
22 S-NI	1.0860	1.0421	1.0000	1.0000	*****	1.1297	1.0447	1.0596	1.0459	1.0865
23 S-PB	1.8448	1.8356	1.9454	1.9145	*****	2.1864	1.8550	2.2580	1.8341	2.4870
24 S-SB	*****	2.4771	*****	*****	*****	2.4771	2.4771	2.4771	2.4771	2.4771
25 S-SC	1.4080	1.4293	1.4098	1.2918	*****	1.6319	1.4469	1.4692	1.4273	1.4655
26 S-SN	1.5827	1.6124	1.7826	1.5000	*****	1.6203	1.6276	1.7386	1.6124	1.7291
27 S-SR	2.5137	2.5116	2.5366	2.8086	*****	2.5072	2.5196	2.5626	2.5298	2.6399
28 S-V	1.8384	1.8227	1.7143	1.7977	*****	1.9269	1.8424	1.8975	1.8224	1.8436
29 S-W	2.0000	2.3180	2.3181	2.3010	*****	2.2546	2.3052	2.4164	2.2971	2.4064
30 S-Y	2.5093	2.5153	2.4153	2.4245	*****	2.7048	2.5669	2.5652	2.5100	2.5585
31 S-ZN	*****	3.3010	*****	*****	*****	3.3010	3.3010	3.3010	3.3010	3.3010
32 S-ZR	*****	3.2802	3.3010	*****	*****	3.3010	3.3010	3.3010	3.2802	*****
33 S-TH	2.6451	2.8133	3.4102	2.5305	*****	3.1091	2.7863	2.9857	2.8023	3.0070

ARRAY OF MEANS - CONT.

	21 S-NB	22 S-NI	23 S-PB	24 S-SB	25 S-SC	26 S-SN	27 S-SR	28 S-V	29 S-W	30 S-Y
1 X-COORD.	4.6798	4.6824	4.6801	4.6888	4.6802	4.6798	4.6772	4.6802	4.6682	4.6804
2 Y-COORD.	5.6140	5.5876	5.6084	5.6149	5.6085	5.6143	5.6141	5.6086	5.6152	5.6087
3 S-FEZ	-0.2483	-0.1845	-0.2529	0.3010	-0.2598	-0.2419	-0.2651	-0.2571	-0.3097	-0.2558
4 S-MGX	-0.3321	-0.2883	-0.3470	-0.1549	-0.3322	-0.3277	-0.3914	-0.3321	-0.5978	-0.3409
5 S-CAZ	0.8264	0.7596	0.7937	0.6990	0.8064	0.8358	0.8330	0.8050	0.9318	0.7880
6 S-TIZ	0.2666	0.2069	0.1686	0.3010	0.2069	0.2068	0.1200	0.2006	0.3010	0.1697
7 S-KN	2.5998	2.6166	2.5513	2.8451	2.5613	2.6297	2.4719	2.5594	2.5058	2.5526
8 S-AG	1.0974	1.3148	1.0045	1.6990	1.0461	0.8328	0.7440	1.0461	1.1297	1.0461
9 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
10 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
11 S-B	1.3699	1.4399	1.3892	*****	1.3856	1.3765	1.4039	1.3856	1.3010	1.3856
12 S-BA	2.5597	2.6862	2.6699	3.6990	2.6567	2.5138	2.7723	2.6570	2.3745	2.6595
13 S-BE	0.7386	0.3010	0.5011	*****	0.5165	0.6193	0.4816	0.5165	0.7841	0.5011
14 S-BI	1.8745	1.8451	1.8689	*****	1.9399	1.6611	1.9300	1.8689	2.1761	1.8689
15 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
16 S-CO	1.0640	1.0880	1.0672	1.1761	1.0657	1.0838	1.0788	1.0672	1.1131	1.0657
17 S-CR	1.6121	1.6110	1.5538	1.8451	1.5588	1.6873	1.5108	1.5597	1.6328	1.5597
18 S-CU	1.4553	1.4289	1.3634	2.4771	1.3833	1.4318	1.3645	1.3833	1.2964	1.3833
19 S-LA	2.5699	2.5746	2.5350	2.6990	2.5589	2.5879	2.5347	2.5536	2.5824	2.5374
20 S-MO	1.4461	1.2948	1.4712	2.6990	1.4376	1.4255	1.4150	1.4376	1.4723	1.4376
21 S-NB	1.8162	1.7483	1.8197	1.8451	1.8172	1.8921	1.8306	1.8162	1.9962	1.8162
22 S-NI	1.0465	1.0459	1.0392	1.3010	1.0459	1.0778	1.0682	1.0459	1.0000	1.0459
23 S-PB	1.9212	1.8415	1.8341	4.1761	1.8461	2.0687	1.8425	1.8406	2.3628	1.8341
24 S-SB	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	2.4771	*****	2.4771
25 S-SC	1.4805	1.4321	1.4189	1.4771	1.4273	1.5395	1.3541	1.4298	1.6005	1.4273
26 S-SN	1.5831	1.7197	1.6165	2.1761	1.6134	1.6124	1.5491	1.6153	1.5282	1.6124
27 S-SR	2.5049	2.5688	2.5274	2.4771	2.5339	2.5435	2.5298	2.5372	2.6244	2.5298
28 S-V	1.8708	1.8616	1.8241	2.1761	1.8295	1.9026	1.7946	1.8224	1.9368	1.8224
29 S-W	2.2971	2.6990	2.2971	*****	2.2971	2.3641	2.3180	2.2971	2.2971	2.2971
30 S-Y	2.6024	2.5746	2.4987	2.6990	2.5413	2.6640	2.3575	2.5318	2.5467	2.5100
31 S-ZN	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	3.3010	*****	3.3010
32 S-ZR	3.3010	*****	3.2802	*****	3.3010	3.3010	3.2802	3.3010	3.3010	3.2802
33 S-TH	2.8654	2.5669	2.8173	*****	2.8023	2.9437	2.8713	2.8023	3.2218	2.8023

ARRAY OF MEANS - CONT.

	31	32	33
	S-ZN	S-ZR	S-TH
1 X-COORD.	4.6688	4.6816	4.6719
2 Y-COORD.	5.6149	5.6138	5.6147
3 S-FEX	0.3010	-0.1520	-0.2967
4 S-MG%	-0.1549	-0.4756	-0.4609
5 S-CA%	0.6990	0.3181	0.8957
6 S-TIX	0.3010	-0.1696	0.2620
7 S-MN	2.8451	2.3389	2.5652
8 S-AG	1.6990	*****	0.9280
9 S-AS	*****	*****	*****
10 S-AU	*****	*****	*****
11 S-B	*****	*****	1.3010
12 S-BA	3.6990	2.7122	2.5791
13 S-BE	*****	0.3597	0.8261
14 S-BI	*****	*****	1.9300
15 S-CD	*****	*****	*****
16 S-CO	1.1761	1.0000	1.0815
17 S-CR	1.8451	1.4771	1.5796
18 S-CU	2.4771	1.0000	1.4005
19 S-LA	2.6990	2.0880	2.6231
20 S-MO	2.6990	*****	1.6219
21 S-NB	1.8451	2.0000	1.9028
22 S-NI	1.3010	*****	1.0000
23 S-PB	4.1761	1.5754	2.1742
24 S-SB	2.4771	*****	*****
25 S-SC	1.4771	1.0880	1.5261
26 S-SN	2.1761	1.5880	1.5370
27 S-SR	2.4771	2.4261	2.5538
28 S-V	2.1761	1.4924	1.9017
29 S-W	*****	2.1761	2.3169
30 S-Y	2.6990	1.8920	2.5621
31 S-ZN	3.3010	*****	*****
32 S-ZR	*****	3.2802	3.3010
33 S-TH	*****	3.6990	2.8023

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
12 (S-BA	) 33 (S-TH)	*****	0
12 (S-BA	) 34 (AA-AS-P)	0.2025	153
12 (S-BA	) 35 (AA-ZN-P)	-0.1188	177
12 (S-BA	) 36 (AA-SB-P)	0.0256	39
13 (S-BE	) 14 (S-BI)	*****	0
13 (S-BE	) 15 (S-CO)	*****	0
13 (S-BE	) 16 (S-CO)	-0.1916	177
13 (S-BE	) 17 (S-CR)	-0.3152	177
13 (S-BE	) 18 (S-CU)	0.1295	177
13 (S-BE	) 19 (S-LA)	-0.0308	177
13 (S-BE	) 20 (S-MO)	0.3964	12
13 (S-BE	) 21 (S-NB)	*****	0
13 (S-BE	) 22 (S-NI)	-0.2158	177
13 (S-BE	) 23 (S-PB)	-0.4015	177
13 (S-BE	) 24 (S-SB)	*****	0
13 (S-BE	) 25 (S-SC)	-0.2429	177
13 (S-BE	) 26 (S-SN)	*****	0
13 (S-BE	) 27 (S-SR)	-0.2637	177
13 (S-BE	) 28 (S-V)	-0.2268	177
13 (S-BE	) 29 (S-W)	*****	0
13 (S-BE	) 30 (S-Y)	-0.3114	177
13 (S-BE	) 31 (S-ZN)	*****	1
13 (S-BE	) 32 (S-ZR)	-0.0811	177
13 (S-BE	) 33 (S-TH)	*****	0
13 (S-BE	) 34 (AA-AS-P)	0.1312	153
13 (S-BE	) 35 (AA-ZN-P)	-0.0192	177
13 (S-BE	) 36 (AA-SB-P)	0.1048	39
14 (S-BI	) 15 (S-CO)	*****	0
14 (S-BI	) 16 (S-CO)	*****	0
14 (S-BI	) 17 (S-CR)	*****	0
14 (S-BI	) 18 (S-CU)	*****	0
14 (S-BI	) 19 (S-LA)	*****	0
14 (S-BI	) 20 (S-MO)	*****	0
14 (S-BI	) 21 (S-NB)	*****	0
14 (S-BI	) 22 (S-NI)	*****	0
14 (S-BI	) 23 (S-PB)	*****	0
14 (S-BI	) 24 (S-SB)	*****	0
14 (S-BI	) 25 (S-SC)	*****	0
14 (S-BI	) 26 (S-SN)	*****	0
14 (S-BI	) 27 (S-SR)	*****	0
14 (S-BI	) 28 (S-V)	*****	0
14 (S-BI	) 29 (S-W)	*****	0
14 (S-BI	) 30 (S-Y)	*****	0
14 (S-BI	) 31 (S-ZN)	*****	0
14 (S-BI	) 32 (S-ZR)	*****	0
14 (S-BI	) 33 (S-TH)	*****	0
14 (S-BI	) 34 (AA-AS-P)	*****	0
14 (S-BI	) 35 (AA-ZN-P)	*****	0
14 (S-BI	) 36 (AA-SB-P)	*****	0
15 (S-CO	) 16 (S-CO)	*****	0

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
15 (S-CD )	)	17 (S-CR)	*****	0
15 (S-CD )	)	18 (S-CU)	*****	0
15 (S-CD )	)	19 (S-LA)	*****	0
15 (S-CD )	)	20 (S-MO)	*****	0
15 (S-CD )	)	21 (S-NB)	*****	0
15 (S-CD )	)	22 (S-NI)	*****	0
15 (S-CD )	)	23 (S-PB)	*****	0
15 (S-CD )	)	24 (S-SB)	*****	0
15 (S-CD )	)	25 (S-SC)	*****	0
15 (S-CD )	)	26 (S-SN)	*****	0
15 (S-CD )	)	27 (S-SR)	*****	0
15 (S-CD )	)	28 (S-V)	*****	0
15 (S-CD )	)	29 (S-W)	*****	0
15 (S-CD )	)	30 (S-Y)	*****	0
15 (S-CD )	)	31 (S-ZN)	*****	0
15 (S-CD )	)	32 (S-ZR)	*****	0
15 (S-CD )	)	33 (S-TH)	*****	0
15 (S-CD )	)	34 (AA-AS-P)	*****	0
15 (S-CD )	)	35 (AA-ZN-P)	*****	0
15 (S-CD )	)	36 (AA-SB-P)	*****	0
16 (S-CO )	)	17 (S-CR)	0.5175	177
16 (S-CO )	)	18 (S-CU)	0.4803	177
16 (S-CO )	)	19 (S-LA)	0.1621	177
16 (S-CO )	)	20 (S-MO)	0.1637	12
16 (S-CO )	)	21 (S-NB)	*****	0
16 (S-CO )	)	22 (S-NI)	0.5204	177
16 (S-CO )	)	23 (S-PB)	-0.1588	177
16 (S-CO )	)	24 (S-SB)	*****	0
16 (S-CO )	)	25 (S-SC)	0.6714	177
16 (S-CO )	)	26 (S-SN)	*****	0
16 (S-CO )	)	27 (S-SR)	0.2680	177
16 (S-CO )	)	28 (S-V)	0.6034	177
16 (S-CO )	)	29 (S-W)	*****	0
16 (S-CO )	)	30 (S-Y)	0.3651	177
16 (S-CO )	)	31 (S-ZN)	*****	1
16 (S-CO )	)	32 (S-ZR)	0.3988	177
16 (S-CO )	)	33 (S-TH)	*****	0
16 (S-CO )	)	34 (AA-AS-P)	0.1857	153
16 (S-CO )	)	35 (AA-ZN-P)	0.5048	177
16 (S-CO )	)	36 (AA-SB-P)	-0.1254	39
17 (S-CR )	)	18 (S-CU)	0.3293	177
17 (S-CR )	)	19 (S-LA)	0.1231	177
17 (S-CR )	)	20 (S-MO)	0.1400	12
17 (S-CR )	)	21 (S-NB)	*****	0
17 (S-CR )	)	22 (S-NI)	0.6971	177
17 (S-CR )	)	23 (S-PB)	-0.2167	177
17 (S-CR )	)	24 (S-SB)	*****	0
17 (S-CR )	)	25 (S-SC)	0.5141	177
17 (S-CR )	)	26 (S-SN)	*****	0
17 (S-CR )	)	27 (S-SR)	0.2196	177

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
17 (S-CR )	)	28 (S-V)	0.5028	177
17 (S-CR )	)	29 (S-W)	*****	0
17 (S-CR )	)	30 (S-Y)	0.2863	177
17 (S-CR )	)	31 (S-ZN)	*****	1
17 (S-CR )	)	32 (S-ZR)	0.1684	177
17 (S-CR )	)	33 (S-TH)	*****	0
17 (S-CR )	)	34 (AA-AS-P)	-0.1252	153
17 (S-CR )	)	35 (AA-ZN-P)	0.3386	177
17 (S-CR )	)	36 (AA-SB-P)	-0.2863	39
18 (S-CU )	)	19 (S-LA)	0.0852	177
18 (S-CU )	)	20 (S-MO)	0.0676	12
18 (S-CU )	)	21 (S-NB)	*****	0
18 (S-CU )	)	22 (S-NI)	0.2967	177
18 (S-CU )	)	23 (S-PB)	0.2457	177
18 (S-CU )	)	24 (S-SB)	*****	0
18 (S-CU )	)	25 (S-SC)	0.3729	177
18 (S-CU )	)	26 (S-SN)	*****	0
18 (S-CU )	)	27 (S-SR)	0.0978	177
18 (S-CU )	)	28 (S-V)	0.3474	177
18 (S-CU )	)	29 (S-W)	*****	0
18 (S-CU )	)	30 (S-Y)	0.0832	177
18 (S-CU )	)	31 (S-ZN)	*****	1
18 (S-CU )	)	32 (S-ZR)	0.1756	177
18 (S-CU )	)	33 (S-TH)	*****	0
18 (S-CU )	)	34 (AA-AS-P)	0.3010	153
18 (S-CU )	)	35 (AA-ZN-P)	0.4952	177
18 (S-CU )	)	36 (AA-SB-P)	0.2727	39
19 (S-LA )	)	20 (S-MO)	-0.0290	12
19 (S-LA )	)	21 (S-NB)	*****	0
19 (S-LA )	)	22 (S-NI)	-0.0049	177
19 (S-LA )	)	23 (S-PB)	-0.0575	177
19 (S-LA )	)	24 (S-SB)	*****	0
19 (S-LA )	)	25 (S-SC)	0.2323	177
19 (S-LA )	)	26 (S-SN)	*****	0
19 (S-LA )	)	27 (S-SR)	0.0735	177
19 (S-LA )	)	28 (S-V)	0.2475	177
19 (S-LA )	)	29 (S-W)	*****	0
19 (S-LA )	)	30 (S-Y)	0.3557	177
19 (S-LA )	)	31 (S-ZN)	*****	1
19 (S-LA )	)	32 (S-ZR)	0.2863	177
19 (S-LA )	)	33 (S-TH)	*****	0
19 (S-LA )	)	34 (AA-AS-P)	0.0166	153
19 (S-LA )	)	35 (AA-ZN-P)	0.2526	177
19 (S-LA )	)	36 (AA-SB-P)	0.0978	39
20 (S-MO )	)	21 (S-NB)	*****	0
20 (S-MO )	)	22 (S-NI)	0.3134	12
20 (S-MO )	)	23 (S-PB)	0.3459	12
20 (S-MO )	)	24 (S-SB)	*****	0
20 (S-MO )	)	25 (S-SC)	0.2645	12
20 (S-MO )	)	26 (S-SN)	*****	0

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
20 (S-MO )	)	27 (S-SR)	0.0374	12
20 (S-MO )	)	28 (S-V)	0.3566	12
20 (S-MO )	)	29 (S-w)	*****	0
20 (S-MO )	)	30 (S-Y)	-0.5057	12
20 (S-MO )	)	31 (S-ZN)	*****	0
20 (S-MO )	)	32 (S-ZR)	0.3030	12
20 (S-MO )	)	33 (S-TH)	*****	0
20 (S-MO )	)	34 (AA-AS-P)	-0.0962	9
20 (S-MO )	)	35 (AA-ZN-P)	0.0612	12
20 (S-MO )	)	36 (AA-SB-P)	*****	3
21 (S-NB )	)	22 (S-NI)	*****	0
21 (S-NB )	)	23 (S-PB)	*****	0
21 (S-NB )	)	24 (S-SB)	*****	0
21 (S-NB )	)	25 (S-SC)	*****	0
21 (S-NB )	)	26 (S-SN)	*****	0
21 (S-NB )	)	27 (S-SR)	*****	0
21 (S-NB )	)	28 (S-V)	*****	0
21 (S-NB )	)	29 (S-w)	*****	0
21 (S-NB )	)	30 (S-Y)	*****	0
21 (S-NB )	)	31 (S-ZN)	*****	0
21 (S-NB )	)	32 (S-ZR)	*****	0
21 (S-NB )	)	33 (S-TH)	*****	0
21 (S-NB )	)	34 (AA-AS-P)	*****	0
21 (S-NB )	)	35 (AA-ZN-P)	*****	0
21 (S-NB )	)	36 (AA-SB-P)	*****	0
22 (S-NI )	)	23 (S-PB)	-0.0916	177
22 (S-NI )	)	24 (S-SB)	*****	0
22 (S-NI )	)	25 (S-SC)	0.5214	177
22 (S-NI )	)	26 (S-SN)	*****	0
22 (S-NI )	)	27 (S-SR)	0.2585	177
22 (S-NI )	)	28 (S-V)	0.4564	177
22 (S-NI )	)	29 (S-w)	*****	0
22 (S-NI )	)	30 (S-Y)	0.2367	177
22 (S-NI )	)	31 (S-ZN)	*****	1
22 (S-NI )	)	32 (S-ZR)	0.1267	177
22 (S-NI )	)	33 (S-TH)	*****	0
22 (S-NI )	)	34 (AA-AS-P)	-0.0485	153
22 (S-NI )	)	35 (AA-ZN-P)	0.2766	177
22 (S-NI )	)	36 (AA-SB-P)	-0.3039	39
23 (S-PB )	)	24 (S-SB)	*****	0
23 (S-PB )	)	25 (S-SC)	-0.2105	177
23 (S-PB )	)	26 (S-SN)	*****	0
23 (S-PB )	)	27 (S-SR)	-0.2030	177
23 (S-PB )	)	28 (S-V)	-0.2191	177
23 (S-PB )	)	29 (S-w)	*****	0
23 (S-PB )	)	30 (S-Y)	-0.2500	177
23 (S-PB )	)	31 (S-ZN)	*****	1
23 (S-PB )	)	32 (S-ZR)	-0.1676	177
23 (S-PB )	)	33 (S-TH)	*****	0
23 (S-PB )	)	34 (AA-AS-P)	0.1926	153

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
23 (S-PB	)	35 (AA-Zn-P)	0.0084	177
23 (S-PB	)	36 (AA-Sb-P)	0.7045	39
24 (S-SB	)	25 (S-SC)	*****	0
24 (S-SB	)	26 (S-SN)	*****	0
24 (S-SB	)	27 (S-SR)	*****	0
24 (S-SB	)	28 (S-V)	*****	0
24 (S-SB	)	29 (S-W)	*****	0
24 (S-SB	)	30 (S-Y)	*****	0
24 (S-SB	)	31 (S-ZN)	*****	0
24 (S-SB	)	32 (S-ZR)	*****	0
24 (S-SB	)	33 (S-TH)	*****	0
24 (S-SB	)	34 (AA-AS-P)	*****	0
24 (S-SB	)	35 (AA-Zn-P)	*****	0
24 (S-SB	)	36 (AA-Sb-P)	*****	0
25 (S-SC	)	26 (S-SN)	*****	0
25 (S-SC	)	27 (S-SR)	0.2783	177
25 (S-SC	)	28 (S-V)	0.5440	177
25 (S-SC	)	29 (S-W)	*****	0
25 (S-SC	)	30 (S-Y)	0.4184	177
25 (S-SC	)	31 (S-ZN)	*****	1
25 (S-SC	)	32 (S-ZR)	0.3637	177
25 (S-SC	)	33 (S-TH)	*****	0
25 (S-SC	)	34 (AA-AS-P)	0.1294	153
25 (S-SC	)	35 (AA-Zn-P)	0.4526	177
25 (S-SC	)	36 (AA-Sb-P)	-0.2502	39
26 (S-SN	)	27 (S-SR)	*****	0
26 (S-SN	)	28 (S-V)	*****	0
26 (S-SN	)	29 (S-W)	*****	0
26 (S-SN	)	30 (S-Y)	*****	0
26 (S-SN	)	31 (S-ZN)	*****	0
26 (S-SN	)	32 (S-ZR)	*****	0
26 (S-SN	)	33 (S-TH)	*****	0
26 (S-SN	)	34 (AA-AS-P)	*****	0
26 (S-SN	)	35 (AA-Zn-P)	*****	0
26 (S-SN	)	36 (AA-Sb-P)	*****	0
27 (S-SR	)	28 (S-V)	0.2925	177
27 (S-SR	)	29 (S-W)	*****	0
27 (S-SR	)	30 (S-Y)	0.1754	177
27 (S-SR	)	31 (S-ZN)	*****	1
27 (S-SR	)	32 (S-ZR)	0.1204	177
27 (S-SR	)	33 (S-TH)	*****	0
27 (S-SR	)	34 (AA-AS-P)	0.1065	153
27 (S-SR	)	35 (AA-Zn-P)	0.0508	177
27 (S-SR	)	36 (AA-Sb-P)	-0.0757	39
28 (S-V	)	29 (S-W)	*****	0
28 (S-V	)	30 (S-Y)	0.3189	177
28 (S-V	)	31 (S-ZN)	*****	1
28 (S-V	)	32 (S-ZR)	0.4543	177
28 (S-V	)	33 (S-TH)	*****	0
28 (S-V	)	34 (AA-AS-P)	0.0029	153

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
7 (S-MN )	)	13 (S-BE)	-0.2632	177
7 (S-MN )	)	14 (S-BI)	*****	0
7 (S-MN )	)	15 (S-CD)	*****	0
7 (S-MN )	)	16 (S-CO)	0.3968	177
7 (S-MN )	)	17 (S-CR)	0.2912	177
7 (S-MN )	)	18 (S-CU)	0.1374	177
7 (S-MN )	)	19 (S-LA)	0.3290	177
7 (S-MN )	)	20 (S-MO)	-0.2314	12
7 (S-MN )	)	21 (S-NB)	*****	0
7 (S-MN )	)	22 (S-NI)	0.2089	177
7 (S-MN )	)	23 (S-PB)	-0.2820	177
7 (S-MN )	)	24 (S-SB)	*****	0
7 (S-MN )	)	25 (S-SC)	0.4302	177
7 (S-MN )	)	26 (S-SN)	*****	0
7 (S-MN )	)	27 (S-SR)	0.2235	177
7 (S-MN )	)	28 (S-V)	0.5199	177
7 (S-MN )	)	29 (S-w)	*****	0
7 (S-MN )	)	30 (S-Y)	0.4342	177
7 (S-MN )	)	31 (S-ZN)	*****	1
7 (S-MN )	)	32 (S-ZR)	0.3319	177
7 (S-MN )	)	33 (S-TH)	*****	0
7 (S-MN )	)	34 (AA-AS-P)	-0.1018	153
7 (S-MN )	)	35 (AA-ZN-P)	0.3502	177
7 (S-MN )	)	36 (AA-SB-P)	-0.1366	39
8 (S-AG )	)	9 (S-AS)	*****	0
8 (S-AG )	)	10 (S-AU)	*****	0
8 (S-AG )	)	11 (S-B)	1.0000	3
8 (S-AG )	)	12 (S-BA)	0.5000	3
8 (S-AG )	)	13 (S-BE)	0.9735	3
8 (S-AG )	)	14 (S-BI)	*****	0
8 (S-AG )	)	15 (S-CU)	*****	0
8 (S-AG )	)	16 (S-CO)	0.5000	3
8 (S-AG )	)	17 (S-CR)	0.5000	3
8 (S-AG )	)	18 (S-CU)	0.9107	3
8 (S-AG )	)	19 (S-LA)	-0.9575	3
8 (S-AG )	)	20 (S-MO)	*****	0
8 (S-AG )	)	21 (S-NB)	*****	0
8 (S-AG )	)	22 (S-NI)	0.5000	3
8 (S-AG )	)	23 (S-PB)	0.7816	3
8 (S-AG )	)	24 (S-SB)	*****	0
8 (S-AG )	)	25 (S-SC)	0.5000	3
8 (S-AG )	)	26 (S-SH)	*****	0
8 (S-AG )	)	27 (S-SR)	*****	3
8 (S-AG )	)	28 (S-V)	*****	3
8 (S-AG )	)	29 (S-w)	*****	0
8 (S-AG )	)	30 (S-Y)	-1.0000	3
8 (S-AG )	)	31 (S-ZN)	*****	0
8 (S-AG )	)	32 (S-ZR)	*****	3
8 (S-AG )	)	33 (S-TH)	*****	0
8 (S-AG )	)	34 (AA-AS-P)	1.0000	3

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
8 (S-AG)	35 (AA-ZN-P)	0.8772	3
8 (S-AG)	36 (AA-SB-P)	*****	0
9 (S-AS)	10 (S-AU)	*****	0
9 (S-AS)	11 (S-B)	*****	0
9 (S-AS)	12 (S-BA)	*****	0
9 (S-AS)	13 (S-BE)	*****	0
9 (S-AS)	14 (S-BI)	*****	0
9 (S-AS)	15 (S-CD)	*****	0
9 (S-AS)	16 (S-CO)	*****	0
9 (S-AS)	17 (S-CR)	*****	0
9 (S-AS)	18 (S-CU)	*****	0
9 (S-AS)	19 (S-LA)	*****	0
9 (S-AS)	20 (S-MO)	*****	0
9 (S-AS)	21 (S-NB)	*****	0
9 (S-AS)	22 (S-NI)	*****	0
9 (S-AS)	23 (S-PB)	*****	0
9 (S-AS)	24 (S-SB)	*****	0
9 (S-AS)	25 (S-SC)	*****	0
9 (S-AS)	26 (S-SN)	*****	0
9 (S-AS)	27 (S-SR)	*****	0
9 (S-AS)	28 (S-V)	*****	0
9 (S-AS)	29 (S-W)	*****	0
9 (S-AS)	30 (S-Y)	*****	0
9 (S-AS)	31 (S-ZN)	*****	0
9 (S-AS)	32 (S-ZR)	*****	0
9 (S-AS)	33 (S-TH)	*****	0
9 (S-AS)	34 (AA-AS-P)	*****	0
9 (S-AS)	35 (AA-ZN-P)	*****	0
9 (S-AS)	36 (AA-SB-P)	*****	0
10 (S-AU)	11 (S-B)	*****	0
10 (S-AU)	12 (S-BA)	*****	0
10 (S-AU)	13 (S-BE)	*****	0
10 (S-AU)	14 (S-BI)	*****	0
10 (S-AU)	15 (S-CD)	*****	0
10 (S-AU)	16 (S-CO)	*****	0
10 (S-AU)	17 (S-CR)	*****	0
10 (S-AU)	18 (S-CU)	*****	0
10 (S-AU)	19 (S-LA)	*****	0
10 (S-AU)	20 (S-MO)	*****	0
10 (S-AU)	21 (S-NB)	*****	0
10 (S-AU)	22 (S-NI)	*****	0
10 (S-AU)	23 (S-PB)	*****	0
10 (S-AU)	24 (S-SB)	*****	0
10 (S-AU)	25 (S-SC)	*****	0
10 (S-AU)	26 (S-SN)	*****	0
10 (S-AU)	27 (S-SR)	*****	0
10 (S-AU)	28 (S-V)	*****	0
10 (S-AU)	29 (S-W)	*****	0
10 (S-AU)	30 (S-Y)	*****	0
10 (S-AU)	31 (S-ZN)	*****	0

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
10 (S-AU )	)	32 (S-ZR)	*****	0
10 (S-AU )	)	33 (S-TH)	*****	0
10 (S-AU )	)	34 (AA-AS-P)	*****	0
10 (S-AU )	)	35 (AA-ZN-P)	*****	0
10 (S-AU )	)	36 (AA-SB-P)	*****	0
11 (S-B )	)	12 (S-BA)	0.1738	177
11 (S-B )	)	13 (S-BE)	-0.0433	177
11 (S-B )	)	14 (S-BI)	*****	0
11 (S-B )	)	15 (S-CO)	*****	0
11 (S-B )	)	16 (S-CO)	-0.0357	177
11 (S-B )	)	17 (S-CR)	0.0167	177
11 (S-B )	)	18 (S-CU)	-0.1309	177
11 (S-B )	)	19 (S-LA)	-0.0390	177
11 (S-B )	)	20 (S-MO)	0.4086	12
11 (S-B )	)	21 (S-NB)	*****	0
11 (S-B )	)	22 (S-NI)	0.1275	177
11 (S-B )	)	23 (S-PB)	-0.0598	177
11 (S-B )	)	24 (S-SB)	*****	0
11 (S-B )	)	25 (S-SC)	0.0061	177
11 (S-B )	)	26 (S-SN)	*****	0
11 (S-B )	)	27 (S-SR)	0.0179	177
11 (S-B )	)	28 (S-V)	0.0715	177
11 (S-B )	)	29 (S-W)	*****	0
11 (S-B )	)	30 (S-Y)	0.0878	177
11 (S-B )	)	31 (S-ZN)	*****	1
11 (S-B )	)	32 (S-ZR)	0.0515	177
11 (S-B )	)	33 (S-TH)	*****	0
11 (S-B )	)	34 (AA-AS-P)	-0.1050	153
11 (S-B )	)	35 (AA-ZN-P)	-0.2925	177
11 (S-B )	)	36 (AA-SB-P)	-0.3482	39
12 (S-BA )	)	13 (S-BE)	-0.1773	177
12 (S-BA )	)	14 (S-BI)	*****	0
12 (S-BA )	)	15 (S-CO)	*****	0
12 (S-BA )	)	16 (S-CO)	0.1995	177
12 (S-BA )	)	17 (S-CR)	0.0149	177
12 (S-BA )	)	18 (S-CU)	-0.0191	177
12 (S-BA )	)	19 (S-LA)	-0.0196	177
12 (S-BA )	)	20 (S-MO)	-0.1728	12
12 (S-BA )	)	21 (S-NB)	*****	0
12 (S-BA )	)	22 (S-NI)	-0.0792	177
12 (S-BA )	)	23 (S-PB)	-0.1017	177
12 (S-BA )	)	24 (S-SG)	*****	0
12 (S-BA )	)	25 (S-SC)	0.1739	177
12 (S-BA )	)	26 (S-SN)	*****	0
12 (S-BA )	)	27 (S-SR)	0.3499	177
12 (S-BA )	)	28 (S-V)	0.0752	177
12 (S-BA )	)	29 (S-W)	*****	0
12 (S-BA )	)	30 (S-Y)	0.2398	177
12 (S-BA )	)	31 (S-ZN)	*****	1
12 (S-BA )	)	32 (S-ZR)	0.1922	177

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (Y-COORD.)	18 (S-CU )	)	0.0484	177
2 (Y-COORD.)	19 (S-LA )	)	-0.0316	177
2 (Y-COORD.)	20 (S-MO )	)	0.0737	12
2 (Y-COORD.)	21 (S-NB )	)	*****	0
2 (Y-COORD.)	22 (S-NI )	)	0.0188	177
2 (Y-COORD.)	23 (S-PB )	)	0.3119	177
2 (Y-COORD.)	24 (S-SB )	)	*****	0
2 (Y-COORD.)	25 (S-SC )	)	-0.1867	177
2 (Y-COORD.)	26 (S-SN )	)	*****	0
2 (Y-COORD.)	27 (S-SR )	)	-0.0280	177
2 (Y-COORD.)	28 (S-V )	)	-0.1109	177
2 (Y-COORD.)	29 (S-W )	)	*****	0
2 (Y-COORD.)	30 (S-Y )	)	-0.2473	177
2 (Y-COORD.)	31 (S-ZN )	)	*****	1
2 (Y-COORD.)	32 (S-ZR )	)	-0.0898	177
2 (Y-COORD.)	33 (S-TH )	)	*****	0
2 (Y-COORD.)	34 (AA-AS-P )	)	0.2121	153
2 (Y-COORD.)	35 (AA-ZN-P )	)	0.1397	177
2 (Y-COORD.)	36 (AA-SB-P )	)	0.1299	39
3 (S-FEX)	4 (S-MG%	)	0.1520	177
3 (S-FEX)	5 (S-CA%	)	0.1619	177
3 (S-FEX)	6 (S-TI%	)	0.5891	177
3 (S-FEX)	7 (S-MN )	)	0.5132	177
3 (S-FEX)	8 (S-AG )	)	0.5000	3
3 (S-FEX)	9 (S-AS )	)	*****	0
3 (S-FEX)	10 (S-AU )	)	*****	0
3 (S-FEX)	11 (S-B )	)	-0.0855	177
3 (S-FEX)	12 (S-BA )	)	0.0949	177
3 (S-FEX)	13 (S-BE )	)	-0.2555	177
3 (S-FEX)	14 (S-BI )	)	*****	0
3 (S-FEX)	15 (S-CO )	)	*****	0
3 (S-FEX)	16 (S-CO )	)	0.5539	177
3 (S-FEX)	17 (S-CR )	)	0.4521	177
3 (S-FEX)	18 (S-CU )	)	0.3317	177
3 (S-FEX)	19 (S-LA )	)	0.2202	177
3 (S-FEX)	20 (S-MO )	)	0.1891	12
3 (S-FEX)	21 (S-NB )	)	*****	0
3 (S-FEX)	22 (S-NI )	)	0.3119	177
3 (S-FEX)	23 (S-PB )	)	-0.2239	177
3 (S-FEX)	24 (S-SB )	)	*****	0
3 (S-FEX)	25 (S-SC )	)	0.5551	177
3 (S-FEX)	26 (S-SN )	)	*****	0
3 (S-FEX)	27 (S-SR )	)	0.1225	177
3 (S-FEX)	28 (S-V )	)	0.5468	177
3 (S-FEX)	29 (S-W )	)	*****	0
3 (S-FEX)	30 (S-Y )	)	0.3630	177
3 (S-FEX)	31 (S-ZN )	)	*****	1
3 (S-FEX)	32 (S-ZR )	)	0.4073	177
3 (S-FEX)	33 (S-TH )	)	*****	0
3 (S-FEX)	34 (AA-AS-P )	)	0.0597	153

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/20/84

COLUMN	VERSUS COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3 (S-FEZ)	35 (AA-ZN-P)	0.5237	177
3 (S-FEZ)	36 (AA-SB-P)	-0.1701	39
4 (S-MG%)	5 (S-CA%)	0.6221	177
4 (S-MG%)	6 (S-TI%)	0.0896	177
4 (S-MG%)	7 (S-MN)	0.0741	177
4 (S-MG%)	8 (S-AG)	0.5000	3
4 (S-MG%)	9 (S-AS)	*****	0
4 (S-MG%)	10 (S-AU)	*****	0
4 (S-MG%)	11 (S-B)	-0.2050	177
4 (S-MG%)	12 (S-BA)	0.0435	177
4 (S-MG%)	13 (S-BE)	-0.2591	177
4 (S-MG%)	14 (S-BI)	*****	0
4 (S-MG%)	15 (S-CD)	*****	0
4 (S-MG%)	16 (S-CO)	0.3813	177
4 (S-MG%)	17 (S-CR)	0.4205	177
4 (S-MG%)	18 (S-CU)	0.3122	177
4 (S-MG%)	19 (S-LA)	-0.0864	177
4 (S-MG%)	20 (S-MO)	-0.3996	12
4 (S-MG%)	21 (S-NB)	*****	0
4 (S-MG%)	22 (S-NI)	0.3917	177
4 (S-MG%)	23 (S-PB)	-0.1542	177
4 (S-MG%)	24 (S-SB)	*****	0
4 (S-MG%)	25 (S-SC)	0.3453	177
4 (S-MG%)	26 (S-SN)	*****	0
4 (S-MG%)	27 (S-SR)	0.2402	177
4 (S-MG%)	28 (S-V)	0.1621	177
4 (S-MG%)	29 (S-W)	*****	0
4 (S-MG%)	30 (S-Y)	0.1113	177
4 (S-MG%)	31 (S-ZN)	*****	1
4 (S-MG%)	32 (S-ZR)	-0.0365	177
4 (S-MG%)	33 (S-TH)	*****	0
4 (S-MG%)	34 (AA-AS-P)	0.0596	153
4 (S-MG%)	35 (AA-ZN-P)	0.3024	177
4 (S-MG%)	36 (AA-SB-P)	-0.1966	39
5 (S-CA%)	6 (S-TI%)	0.1728	177
5 (S-CA%)	7 (S-MN)	0.1480	177
5 (S-CA%)	8 (S-AG)	1.0000	3
5 (S-CA%)	9 (S-AS)	*****	0
5 (S-CA%)	10 (S-AU)	*****	0
5 (S-CA%)	11 (S-B)	0.0589	177
5 (S-CA%)	12 (S-BA)	0.2055	177
5 (S-CA%)	13 (S-BE)	-0.2898	177
5 (S-CA%)	14 (S-BI)	*****	0
5 (S-CA%)	15 (S-CD)	*****	0
5 (S-CA%)	16 (S-CO)	0.3146	177
5 (S-CA%)	17 (S-CR)	0.4075	177
5 (S-CA%)	18 (S-CU)	0.2803	177
5 (S-CA%)	19 (S-LA)	-0.0953	177
5 (S-CA%)	20 (S-MO)	-0.4378	12
5 (S-CA%)	21 (S-NB)	*****	0

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-CAZ )	) 22 (S-NI )	) 0.3609	177	
5 (S-CAZ )	) 23 (S-PB )	) -0.2125	177	
5 (S-CAZ )	) 24 (S-SB )	) *****	0	
5 (S-CAZ )	) 25 (S-SC )	) 0.2245	177	
5 (S-CAZ )	) 26 (S-SN )	) *****	0	
5 (S-CAZ )	) 27 (S-SR )	) 0.3448	177	
5 (S-CAZ )	) 28 (S-V )	) 0.1750	177	
5 (S-CAZ )	) 29 (S-W )	) *****	0	
5 (S-CAZ )	) 30 (S-Y )	) 0.1601	177	
5 (S-CAZ )	) 31 (S-ZN )	) *****	1	
5 (S-CAZ )	) 32 (S-ZR )	) -0.0534	177	
5 (S-CAZ )	) 33 (S-TH )	) *****	0	
5 (S-CAZ )	) 34 (AA-AS-P )	) 0.0950	153	
5 (S-CAZ )	) 35 (AA-ZN-P )	) 0.1644	177	
5 (S-CAZ )	) 36 (AA-SB-P )	) -0.1916	39	
6 (S-TIZ )	) 7 (S-MN )	) 0.5797	177	
6 (S-TIZ )	) 8 (S-AG )	) *****	3	
6 (S-TIZ )	) 9 (S-AS )	) *****	0	
6 (S-TIZ )	) 10 (S-AU )	) *****	0	
6 (S-TIZ )	) 11 (S-B )	) 0.0764	177	
6 (S-TIZ )	) 12 (S-BA )	) 0.3664	177	
6 (S-TIZ )	) 13 (S-BE )	) -0.3194	177	
6 (S-TIZ )	) 14 (S-BI )	) *****	0	
6 (S-TIZ )	) 15 (S-CD )	) *****	0	
6 (S-TIZ )	) 16 (S-CO )	) 0.4960	177	
6 (S-TIZ )	) 17 (S-CR )	) 0.3945	177	
6 (S-TIZ )	) 18 (S-CU )	) 0.1546	177	
6 (S-TIZ )	) 19 (S-LA )	) 0.2026	177	
6 (S-TIZ )	) 20 (S-MO )	) 0.1498	12	
6 (S-TIZ )	) 21 (S-NB )	) *****	0	
6 (S-TIZ )	) 22 (S-NI )	) 0.2840	177	
6 (S-TIZ )	) 23 (S-PB )	) -0.3279	177	
6 (S-TIZ )	) 24 (S-SB )	) *****	0	
6 (S-TIZ )	) 25 (S-SC )	) 0.5806	177	
6 (S-TIZ )	) 26 (S-SN )	) *****	0	
6 (S-TIZ )	) 27 (S-SR )	) 0.3190	177	
6 (S-TIZ )	) 28 (S-V )	) 0.5559	177	
6 (S-TIZ )	) 29 (S-W )	) *****	0	
6 (S-TIZ )	) 30 (S-Y )	) 0.4260	177	
6 (S-TIZ )	) 31 (S-ZN )	) *****	1	
6 (S-TIZ )	) 32 (S-ZR )	) 0.3925	177	
6 (S-TIZ )	) 33 (S-TH )	) *****	0	
6 (S-TIZ )	) 34 (AA-AS-P )	) -0.0050	153	
6 (S-TIZ )	) 35 (AA-ZN-P )	) 0.3404	177	
6 (S-TIZ )	) 36 (AA-SB-P )	) -0.2765	39	
7 (S-MN )	) 8 (S-AG )	) 1.0000	3	
7 (S-MN )	) 9 (S-AS )	) *****	0	
7 (S-MN )	) 10 (S-AU )	) *****	0	
7 (S-MN )	) 11 (S-B )	) 0.1086	177	
7 (S-MN )	) 12 (S-BA )	) 0.2636	177	