

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

015080

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
TRANSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
GET FILE GCHSS1

T-Test for Rock codes

3D

FILE GCHSS1 HAS 35 VARIABLES

3D Wolverine

THE SUBFILES ARE..

NAME NO OF
 CASES
GCHSS1 374

Major elements

Normalized with LOI.

COMPUTE NCODE=9
IF (ROCKCODE EQ 18 AND (SEQ NE 2057 AND 2061)) NCODE=1
IF (ROCKCODE EQ 19) NCODE=2
*SELECT IF (NCODE EQ 1)
TASK NAME ROCK CODE 18 - EXCLUDING SEQ NO'S 2057 & 2061
CONDESCRIPTIVE SIO2 TO LOI

Calculate mean for

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

Population 3D + 3D Wolverine

STATISTICS ALL

*Cannot
Certain analyses did not get excluded.*

VARIABLE SI02

MEAN	50.297	STD ERROR	.893	STD DEV	2.961
VARIANCE	8.768	KURTOSIS	-.936	SKEWNESS	-.151
RANGE	8.730	MINIMUM	45.780	MAXIMUM	54.510
SUM	553.270				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.683	STD ERROR	.186	STD DEV	.617
VARIANCE	.380	KURTOSIS	6.133	SKEWNESS	2.273
RANGE	2.260	MINIMUM	.100	MAXIMUM	2.360
SUM	7.510				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.688	STD ERROR	.828	STD DEV	2.745
VARIANCE	7.532	KURTOSIS	4.260	SKEWNESS	1.985
RANGE	9.770	MINIMUM	14.960	MAXIMUM	24.730
SUM	194.570				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	7.998	STD ERROR	.738	STD DEV	2.449
VARIANCE	5.998	KURTOSIS	3.161	SKEWNESS	1.785
RANGE	8.470	MINIMUM	5.580	MAXIMUM	14.050
SUM	87.980				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.095	STD ERROR	.008	STD DEV	.026
VARIANCE	.001	KURTOSIS	.475	SKEWNESS	.856
RANGE	.090	MINIMUM	.060	MAXIMUM	.150
SUM	1.040				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	3.898	STD ERROR	.364	STD DEV	1.207
VARIANCE	1.456	KURTOSIS	5.520	SKEWNESS	2.212
RANGE	4.240	MINIMUM	2.890	MAXIMUM	7.130
SUM	42.880				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	10.146	STD ERROR	1.177	STD DEV	3.904
VARIANCE	15.244	KURTOSIS	-.163	SKEWNESS	.067
RANGE	13.060	MINIMUM	3.390	MAXIMUM	16.450
SUM	111.610				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE NA20

MEAN	1.539	STD ERROR	.221	STD DEV	.733
VARIANCE	.537	KURTOSIS	-1.328	SKEWNESS	-.327
RANGE	2.090	MINIMUM	.300	MAXIMUM	2.390
SUM	16.930				

VALID OBSERVATIONS = 11 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	3.009	STD ERROR	.290	STD DEV	.960
VARIANCE	.923	KURTOSIS	.062	SKEWNESS	-.893
RANGE	3.110	MINIMUM	1.200	MAXIMUM	4.310
SUM	33.100				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.230	STD ERROR	.047	STD DEV	.157
VARIANCE	.025	KURTOSIS	4.700	SKEWNESS	2.166
RANGE	.510	MINIMUM	.130	MAXIMUM	.640
SUM	2.530				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
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VARIABLE LOI

MEAN	4.420	STD ERROR	1.201	STD DEV	3.984
VARIANCE	15.873	KURTOSIS	2.110	SKEWNESS	1.561
RANGE	12.610	MINIMUM	1.150	MAXIMUM	13.760
SUM	48.620				

VALID OBSERVATIONS - 11 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED: 100 WORDS
4 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
23 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE EQ 2)
TASK NAME ROCK CODE 19
CONDESCRIPTIVE S102 TO L01

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 19

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE SI02

MEAN	52.107	STD ERROR	1.564	STD DEV	2.709
VARIANCE	7.340	KURTOSIS	0.	SKEWNESS	-1.576
RANGE	5.030	MINIMUM	49.010	MAXIMUM	54.040
SUM	156.320				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	.467	STD ERROR	.044	STD DEV	.076
VARIANCE	.006	KURTOSIS	0.	SKEWNESS	.935
RANGE	.150	MINIMUM	.400	MAXIMUM	.550
SUM	1.400				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	15.873	STD ERROR	1.400	STD DEV	2.424
VARIANCE	5.878	KURTOSIS	0.	SKEWNESS	1.552
RANGE	4.520	MINIMUM	14.120	MAXIMUM	18.640
SUM	47.620				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	6.543	STD ERROR	.838	STD DEV	1.451
VARIANCE	2.107	KURTOSIS	0.	SKEWNESS	-0.854
RANGE	2.860	MINIMUM	4.970	MAXIMUM	7.830
SUM	19.630				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.063	STD ERROR	.007	STD DEV	.012
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.020	MINIMUM	.050	MAXIMUM	.070
SUM	.190				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	3.887	STD ERROR	.760	STD DEV	1.316
VARIANCE	1.732	KURTOSIS	0.	SKEWNESS	.657
RANGE	2.610	MINIMUM	2.680	MAXIMUM	5.290
SUM	11.660				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	13.343	STD ERROR	2.797	STD DEV	4.845
VARIANCE	23.476	KURTOSIS	0.	SKEWNESS	.613
RANGE	9.620	MINIMUM	8.870	MAXIMUM	18.490
SUM	40.030				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE NA2O

MEAN	1.327	STD ERROR	.432	STD DEV	.748
VARIANCE	.559	KURTOSIS	0.	SKEWNESS	1.732
RANGE	1.300	MINIMUM	.890	MAXIMUM	2.190
SUM	3.980				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

ROCK CODE 19

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	3.870	STD ERROR	.255	STD DEV	4.442
VARIANCE	.196	KURTOSIS	0.	SKEWNESS	-1.131
RANGE	.860	MINIMUM	3.380	MAXIMUM	4.240
SUM	11.610				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.200	STD ERROR	.025	STD DEV	.044
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	-1.630
RANGE	.080	MINIMUM	.150	MAXIMUM	.230
SUM	.600				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	2.323	STD ERROR	1.700	STD DEV	2.944
VARIANCE	8.669	KURTOSIS	0.	SKEWNESS	1.718
RANGE	5.220	MINIMUM	.500	MAXIMUM	5.720
SUM	6.970				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED: 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK CODE 18 VS 19
T-TEST GROUPS= NCODE(1,2)/ VARIABLES= SIO2 TO S

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

T - T E S T

GROUP 1 = NCODE ED 1.
 GROUP 2 = NCODE ED 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *			
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM

SI02	GROUP 1	11	50.2973	2.961	.893	*	*	*	*	*	*
	GROUP 2	3	52.1067	2.709	1.564	1.19	1.000	-.95	12	.360	-1.00 3.44 .389

TI02	GROUP 1	11	.6827	.617	.186	*	*	*	*	*	*
	GROUP 2	3	.4667	.076	.044	65.23	.054	.59	12	.567	1.13 10.98 .282

AL203	GROUP 1	11	17.6882	2.745	.828	*	*	*	*	*	*
	GROUP 2	3	15.8733	2.424	1.400	1.28	1.000	1.03	12	.321	1.12 3.56 .327

FE203	GROUP 1	11	7.9982	2.449	.738	*	*	*	*	*	*
	GROUP 2	3	6.5433	1.451	.838	2.85	.569	.97	12	.353	1.30 5.63 .240

FEO	GROUP 1	0	0.	0.	0.	*	*	*	*	*	*
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0. 0. 1.000

MNO	GROUP 1	11	.0945	.026	.008	*	*	*	*	*	*
	GROUP 2	3	.0633	.012	.007	5.15	.348	1.96	12	.073	3.02 8.30 .017

MGO	GROUP 1	11	3.8982	1.207	.364	*	*	*	*	*	*
	GROUP 2	3	3.8867	1.316	.760	1.19	.690	.01	12	.989	.01 2.99 .990

ROCK CODE 18 VS 19

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

T - T E S T

GROUP 1 - NCODE EQ 1.
GROUP 2 - NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *		* SEPARATE VARIANCE ESTIMATE *						
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	
CA0													
GROUP 1	11	10.1464	3.904	1.177									
GROUP 2	3	13.3433	4.845	2.797	1.54	.522	-1.20	12	.252	-1.05	2.75	.370	
NA20													
GROUP 1	11	1.5391	.733	.221									
GROUP 2	3	1.3267	.748	.432	1.04	.780	.44	12	.665	.44	3.14	.691	
K20													
GROUP 1	11	3.0091	.960	.290									
GROUP 2	3	3.8700	.442	.255	4.71	.375	-1.48	12	.166	-2.23	7.85	.056	
P205													
GROUP 1	11	.2300	.157	.047									
GROUP 2	3	.2000	.044	.025	12.96	.164	.32	12	.755	.56	11.75	.586	
S													
GROUP 1	0	0.	0.	0.									
GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000	

*SELECT IF (ROCKCODE EQ 18 OR 19 AND (SEQ NE 2057 AND 2061))
TASK NAME ROCK CODES 18 & 19 - EXCLUDING SEQ NO'S 2057 AND 2061
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE S102

MEAN	50.685	STD ERROR	.778	STD DEV	2.910
VARIANCE	8.467	KURTOSIS	-1.003	SKEWNESS	-.307
RANGE	8.730	MINIMUM	45.780	MAXIMUM	54.510
SUM	709.590				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.636	STD ERROR	.147	STD DEV	.550
VARIANCE	.302	KURTOSIS	8.225	SKEWNESS	2.635
RANGE	2.260	MINIMUM	.100	MAXIMUM	2.360
SUM	8.910				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.299	STD ERROR	.722	STD DEV	2.701
VARIANCE	7.296	KURTOSIS	3.837	SKEWNESS	1.730
RANGE	10.610	MINIMUM	14.120	MAXIMUM	24.730
SUM	242.190				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	7.686	STD ERROR	.617	STD DEV	2.307
VARIANCE	5.322	KURTOSIS	3.918	SKEWNESS	1.830
RANGE	9.080	MINIMUM	4.970	MAXIMUM	14.050
SUM	107.610				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.088	STD ERROR	.007	STD DEV	.027
VARIANCE	.001	KURTOSIS	.679	SKEWNESS	.926
RANGE	.100	MINIMUM	.050	MAXIMUM	.150
SUM	1.230				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	3.896	STD ERROR	.315	STD DEV	1.178
VARIANCE	1.387	KURTOSIS	3.690	SKEWNESS	1.804
RANGE	4.450	MINIMUM	2.680	MAXIMUM	7.130
SUM	54.540				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	10.831	STD ERROR	1.108	STD DEV	4.146
VARIANCE	17.191	KURTOSIS	7.163	SKEWNESS	2.206
RANGE	15.100	MINIMUM	3.390	MAXIMUM	18.490
SUM	151.640				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE NA2O

MEAN	1.494	STD ERROR	.190	STD DEV	.712
VARIANCE	.507	KURTOSIS	-1.543	SKEWNESS	-.102
RANGE	2.090	MINIMUM	.300	MAXIMUM	2.390
SUM	20.910				

VALID OBSERVATIONS = 14 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	3.194	STD ERROR	.250	STD DEV	.935
VARIANCE	.874	KURTOSIS	.628	SKEWNESS	-1.097
RANGE	3.110	MINIMUM	1.200	MAXIMUM	4.310
SUM	44.710				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.224	STD ERROR	.037	STD DEV	.139
VARIANCE	.019	KURTOSIS	6.300	SKEWNESS	2.420
RANGE	.510	MINIMUM	.130	MAXIMUM	.640
SUM	3.130				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	3.971	STD ERROR	1.012	STD DEV	3.787
VARIANCE	14.341	KURTOSIS	2.427	SKEWNESS	1.575
RANGE	13.260	MINIMUM	.500	MAXIMUM	13.760
SUM	55.590				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 21 OR 22 OR 23 AND (SEQ NE 2074 AND 2076 AND 2078
AND 2088))
TASK NAME ROCK CODES 21, 22, 23 - EXCLUDING SEQ NO'S 2074 2076 2078 2088
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SIQ2

MEAN	45.817	STD ERROR	2.548	STD DEV	8.826
VARIANCE	77.902	KURTOSIS	4.213	SKEWNESS	-1.697
RANGE	34.670	MINIMUM	22.500	MAXIMUM	57.170
SUM	549.800				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	.462	STD ERROR	.166	STD DEV	.575
VARIANCE	.330	KURTOSIS	.106	SKEWNESS	1.259
RANGE	1.650	MINIMUM	0.	MAXIMUM	1.650
SUM	5.550				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	14.503	STD ERROR	1.176	STD DEV	4.074
VARIANCE	16.598	KURTOSIS	-.474	SKEWNESS	-.302
RANGE	13.210	MINIMUM	6.970	MAXIMUM	20.180
SUM	174.030				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	7.226	STD ERROR	.941	STD DEV	3.260
VARIANCE	10.630	KURTOSIS	-.502	SKEWNESS	.789
RANGE	10.090	MINIMUM	2.840	MAXIMUM	12.930
SUM	86.710				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE FED

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.105	STD ERROR	.011	STD DEV	.038
VARIANCE	.001	KURTOSIS	-1.217	SKEWNESS	.396
RANGE	.110	MINIMUM	.060	MAXIMUM	.170
SUM	1.260				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	3.693	STD ERROR	.657	STD DEV	2.277
VARIANCE	5.187	KURTOSIS	4.528	SKEWNESS	2.058
RANGE	8.320	MINIMUM	1.490	MAXIMUM	9.810
SUM	44.320				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	12.566	STD ERROR	2.467	STD DEV	8.547
VARIANCE	73.056	KURTOSIS	4.345	SKEWNESS	2.012
RANGE	30.230	MINIMUM	5.120	MAXIMUM	35.350
SUM	150.790				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE NA20

MEAN	2.003	STD ERROR	.415	STD DEV	1.438
VARIANCE	2.067	KURTOSIS	.116	SKEWNESS	1.057
RANGE	4.570	MINIMUM	.450	MAXIMUM	5.020
SUM	24.030				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	1.958	STD ERROR	.405	STD DEV	1.402
VARIANCE	1.967	KURTOSIS	-1.259	SKEWNESS	.059
RANGE	3.920	MINIMUM	.100	MAXIMUM	4.020
SUM	23.500				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.178	STD ERROR	.023	STD DEV	.078
VARIANCE	.006	KURTOSIS	-.219	SKEWNESS	1.004
RANGE	.240	MINIMUM	.090	MAXIMUM	.330
SUM	2.140				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	11.489	STD ERROR	2.010	STD DEV	6.964
VARIANCE	48.501	KURTOSIS	2.186	SKEWNESS	1.201
RANGE	25.280	MINIMUM	3.000	MAXIMUM	28.280
SUM	137.870				

VALID OBSERVATIONS = 12 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED. 113 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
27 IF/COMPUTE OPERATIONS

FINISH

NORMAL END OF JOB.
25 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

SPSS FOR INFONET CSTS, RELEASE 7.2.2, DECEMBER 10, 1979

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

MARCH 6, 1980

RUN NAME CYPRUS ANVIL MINING CORPORATION
 GET FILE GEO1

FILE GEO1 HAS 37 VARIABLES

SPSS: CONDESCRIPTIVE for MAJOR ELEMENTS

THE SUBFILES ARE..

STATISTICS = ALL

NAME	NO OF CASES
GEO1	374

NORMALIZED WITH L.O.I.

*SELECT IF ((ROCKCODE EQ 1) AND NEWSEQ NE 3039 AND 3157 AND 3218)
 TASK NAME ROCK CODE 1 - 1F
 CONDESCRIPTIVE S102 TO L01

For EACH ROCK Type SEPARATELY

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	50.730	STD ERROR	1.233	STD DEV	2.467
VARIANCE	6.085	KURTOSIS	.529	SKEWNESS	1.208
RANGE	5.300	MINIMUM	48.830	MAXIMUM	54.130
SUM	202.920				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.950	STD ERROR	.393	STD DEV	.787
VARIANCE	.619	KURTOSIS	-5.897	SKEWNESS	.000
RANGE	1.440	MINIMUM	1.230	MAXIMUM	2.670
SUM	7.800				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	14.013	STD ERROR	.607	STD DEV	1.215
VARIANCE	1.476	KURTOSIS	-4.402	SKEWNESS	-.278
RANGE	2.420	MINIMUM	12.640	MAXIMUM	15.060
SUM	56.050				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.785	STD ERROR	.615	STD DEV	1.230
VARIANCE	1.512	KURTOSIS	-5.999	SKEWNESS	-.000
RANGE	2.140	MINIMUM	11.710	MAXIMUM	13.850
SUM	51.140				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 1 - 1F

FILE GEO1 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE MNO

MEAN	.163	STD ERROR	.011	STD DEV	.022
VARIANCE	.000	KURTOSIS	3.265	SKEWNESS	-1.720
RANGE	.050	MINIMUM	.130	MAXIMUM	.180
SUM	.650				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.668	STD ERROR	1.504	STD DEV	3.009
VARIANCE	9.052	KURTOSIS	3.567	SKEWNESS	1.867
RANGE	6.510	MINIMUM	5.620	MAXIMUM	12.130
SUM	30.670				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.560	STD ERROR	1.054	STD DEV	2.107
VARIANCE	4.440	KURTOSIS	-4.468	SKEWNESS	-.131
RANGE	4.370	MINIMUM	6.270	MAXIMUM	10.640
SUM	34.240				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.945	STD ERROR	.549	STD DEV	1.099
VARIANCE	1.207	KURTOSIS	3.031	SKEWNESS	1.696
RANGE	2.450	MINIMUM	1.100	MAXIMUM	3.550
SUM	7.780				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.200	STD ERROR	.046	STD DEV	.091
VARIANCE	.008	KURTOSIS	-3.300	SKEWNESS	-.000
RANGE	.200	MINIMUM	.100	MAXIMUM	.300
SUM	.800				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.245	STD ERROR	.040	STD DEV	.080
VARIANCE	.006	KURTOSIS	-.317	SKEWNESS	-.000
RANGE	.190	MINIMUM	.150	MAXIMUM	.340
SUM	.980				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.238	STD ERROR	.098	STD DEV	.196
VARIANCE	.038	KURTOSIS	.854	SKEWNESS	.501
RANGE	.470	MINIMUM	.020	MAXIMUM	.490
SUM	.950				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	1.503	STD ERROR	1.024	STD DEV	2.048
VARIANCE	4.192	KURTOSIS	3.949	SKEWNESS	1.985
RANGE	4.190	MINIMUM	.380	MAXIMUM	4.570
SUM	6.010				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 2)
TASK_NAME ROCK CODE 2 - 3C
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 2 - 3C

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE SI02

MEAN	48.893	STD ERROR	.605	STD DEV	1.600
VARIANCE	2.559	KURTOSIS	-.067	SKEWNESS	.326
RANGE	4.820	MINIMUM	46.670	MAXIMUM	51.490
SUM	342.250				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.999	STD ERROR	.342	STD DEV	.904
VARIANCE	.816	KURTOSIS	1.255	SKEWNESS	.971
RANGE	2.660	MINIMUM	1.010	MAXIMUM	3.670
SUM	13.990				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.319	STD ERROR	.278	STD DEV	.736
VARIANCE	.542	KURTOSIS	1.697	SKEWNESS	-1.110
RANGE	2.160	MINIMUM	13.920	MAXIMUM	16.080
SUM	107.230				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.283	STD ERROR	.298	STD DEV	.787
VARIANCE	.620	KURTOSIS	-.361	SKEWNESS	.649
RANGE	2.270	MINIMUM	11.280	MAXIMUM	13.550
SUM	85.980				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.164	STD ERROR	.006	STD DEV	.016
VARIANCE	.000	KURTOSIS	.249	SKEWNESS	.013
RANGE	.050	MINIMUM	.140	MAXIMUM	.190
SUM	1.150				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.599	STD ERROR	.244	STD DEV	.645
VARIANCE	.416	KURTOSIS	.581	SKEWNESS	-1.068
RANGE	1.790	MINIMUM	5.420	MAXIMUM	7.210
SUM	46.190				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	9.879	STD ERROR	.352	STD DEV	.931
VARIANCE	.867	KURTOSIS	.631	SKEWNESS	.715
RANGE	2.820	MINIMUM	8.700	MAXIMUM	11.520
SUM	69.150				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.040	STD ERROR	.142	STD DEV	.375
VARIANCE	.141	KURTOSIS	-1.250	SKEWNESS	.859
RANGE	.920	MINIMUM	2.690	MAXIMUM	3.610
SUM	21.280				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.339	STD ERROR	.047	STD DEV	.124
VARIANCE	.015	KURTOSIS	-.774	SKEWNESS	-.545
RANGE	.350	MINIMUM	.150	MAXIMUM	.500
SUM	2.370				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.220	STD ERROR	.028	STD DEV	.073
VARIANCE	.005	KURTOSIS	1.834	SKEWNESS	-.544
RANGE	.240	MINIMUM	.090	MAXIMUM	.330
SUM	1.540				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.147	STD ERROR	.082	STD DEV	.217
VARIANCE	.047	KURTOSIS	3.641	SKEWNESS	1.933
RANGE	.590	MINIMUM	.010	MAXIMUM	.600
SUM	1.030				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	1.116	STD ERROR	.289	STD DEV	.763
VARIANCE	.583	KURTOSIS	-.200	SKEWNESS	-.272
RANGE	2.250	MINIMUM	0.	MAXIMUM	2.250
SUM	7.810				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 2) AND NEWSEQ NE 1010 AND 1008 AND 1009)
TASK NAME ROCK CODE 2 - 3C
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 2 - 3C

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE SI02

MEAN	49.290	STD ERROR	.828	STD DEV	1.657
VARIANCE	2.745	KURTOSIS	.814	SKEWNESS	.777
RANGE	3.920	MINIMUM	47.570	MAXIMUM	51.490
SUM	197.160				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.485	STD ERROR	.256	STD DEV	.511
VARIANCE	.261	KURTOSIS	-4.983	SKEWNESS	.137
RANGE	1.020	MINIMUM	1.010	MAXIMUM	2.030
SUM	5.940				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.248	STD ERROR	.464	STD DEV	.927
VARIANCE	.860	KURTOSIS	2.709	SKEWNESS	-1.448
RANGE	2.160	MINIMUM	13.920	MAXIMUM	16.080
SUM	60.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	11.813	STD ERROR	.208	STD DEV	.416
VARIANCE	.173	KURTOSIS	-.650	SKEWNESS	-.601
RANGE	.960	MINIMUM	11.280	MAXIMUM	12.240
SUM	47.250				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

ROCK CODE 2 - 3C

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE MNO

MEAN	.168	STD ERROR	.009	STD DEV	.017
VARIANCE	.000	KURTOSIS	.343	SKEWNESS	.753
RANGE	.040	MINIMUM	.150	MAXIMUM	.190
SUM	.670				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.720	STD ERROR	.252	STD DEV	.503
VARIANCE	.253	KURTOSIS	-5.231	SKEWNESS	-.038
RANGE	1.000	MINIMUM	6.210	MAXIMUM	7.210
SUM	26.880				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.455	STD ERROR	.382	STD DEV	.764
VARIANCE	.583	KURTOSIS	1.200	SKEWNESS	1.275
RANGE	1.710	MINIMUM	9.810	MAXIMUM	11.520
SUM	41.820				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	2.943	STD ERROR	.187	STD DEV	.375
VARIANCE	.140	KURTOSIS	3.704	SKEWNESS	1.900
RANGE	.810	MINIMUM	2.690	MAXIMUM	3.500
SUM	11.770				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.288	STD ERROR	.066	STD DEV	.131
VARIANCE	.017	KURTOSIS	-5.290	SKEWNESS	-.124
RANGE	.250	MINIMUM	.150	MAXIMUM	.400
SUM	1.150				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.200	STD ERROR	.037	STD DEV	.074
VARIANCE	.005	KURTOSIS	3.709	SKEWNESS	-1.900
RANGE	.160	MINIMUM	.090	MAXIMUM	.250
SUM	.800				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.168	STD ERROR	.144	STD DEV	.289
VARIANCE	.083	KURTOSIS	3.911	SKEWNESS	1.975
RANGE	.590	MINIMUM	.010	MAXIMUM	.600
SUM	.670				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	1.218	STD ERROR	.465	STD DEV	.930
VARIANCE	.865	KURTOSIS	1.369	SKEWNESS	-.576
RANGE	2.250	MINIMUM	0.	MAXIMUM	2.250
SUM	4.870				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1029 OR 1031 OR 1032 OR 1034 OR 1035 OR 1039 OR 1040
OR 1043 OR 1044 OR 2001 OR 2002 OR 2005 OR 2008 OR 1056 OR 1005
OR 1007)
TASK NAME ROCK CODE 4 - 5C
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 4 - 5C

FILE GEO1

(CREATION DATE = 03/05/80)

NORMALIZED WITH L.O.I.

VARIABLE S102

MEAN	47.512	STD ERROR	.694	STD DEV	2.775
VARIANCE	7.703	KURTOSIS	5.158	SKEWNESS	1.760
RANGE	12.390	MINIMUM	43.450	MAXIMUM	55.840
SUM	760.190				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.516	STD ERROR	.127	STD DEV	.509
VARIANCE	.259	KURTOSIS	.081	SKEWNESS	-.031
RANGE	1.910	MINIMUM	.470	MAXIMUM	2.380
SUM	24.260				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	14.979	STD ERROR	.485	STD DEV	1.939
VARIANCE	3.760	KURTOSIS	.266	SKEWNESS	-.337
RANGE	7.570	MINIMUM	10.970	MAXIMUM	18.540
SUM	239.660				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	11.840	STD ERROR	.326	STD DEV	1.304
VARIANCE	1.701	KURTOSIS	-.767	SKEWNESS	.614
RANGE	4.129	MINIMUM	10.291	MAXIMUM	14.420
SUM	189.433				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE FE0

MEAN	7.978	STD ERROR	.658	STD DEV	1.317
VARIANCE	1.734	KURTOSIS	3.489	SKEWNESS	-1.831
RANGE	2.890	MINIMUM	6.030	MAXIMUM	8.920
SUM	31.910				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 12

VARIABLE MNO

MEAN	.133	STD ERROR	.008	STD DEV	.031
VARIANCE	.001	KURTOSIS	-.604	SKEWNESS	-.539
RANGE	.100	MINIMUM	.080	MAXIMUM	.180
SUM	2.120				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.727	STD ERROR	.562	STD DEV	2.249
VARIANCE	5.058	KURTOSIS	-.449	SKEWNESS	-.079
RANGE	7.980	MINIMUM	3.990	MAXIMUM	11.970
SUM	123.640				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.096	STD ERROR	.798	STD DEV	3.190
VARIANCE	10.176	KURTOSIS	-.442	SKEWNESS	-.649
RANGE	10.370	MINIMUM	1.750	MAXIMUM	12.120
SUM	129.530				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	3.387	STD ERROR	.246	STD DEV	.985
VARIANCE	.971	KURTOSIS	-.638	SKEWNESS	.477
RANGE	3.350	MINIMUM	2.010	MAXIMUM	5.360
SUM	54.190				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.757	STD ERROR	.160	STD DEV	.641
VARIANCE	.411	KURTOSIS	-.744	SKEWNESS	.602
RANGE	1.890	MINIMUM	.050	MAXIMUM	1.940
SUM	12.110				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.329	STD ERROR	.047	STD DEV	.188
VARIANCE	.035	KURTOSIS	1.755	SKEWNESS	1.594
RANGE	.650	MINIMUM	.160	MAXIMUM	.810
SUM	5.270				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.047	STD ERROR	.010	STD DEV	.033
VARIANCE	.001	KURTOSIS	2.547	SKEWNESS	1.322
RANGE	.120	MINIMUM	.010	MAXIMUM	.130
SUM	.570				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 4

VARIABLE LOI

MEAN	3.912	STD ERROR	.483	STD DEV	1.933
VARIANCE	3.738	KURTOSIS	1.062	SKEWNESS	.832
RANGE	7.260	MINIMUM	1.480	MAXIMUM	8.740
SUM	62.590				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 263 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
63 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1008 OR 1009 OR 1010 OR 1029 OR 1031 OR 1032 OR 1034
OR 1035 OR 1039 OR 1040 OR 1043 OR 1044 OR 2001 OR 2002 OR 2005
OR 2008 OR 1056 OR 1005 OR 1007)
TASK NAME ROCK CODE 4 - 3C & 5C
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	47.646	STD ERROR	.600	STD DEV	2.614
VARIANCE	6.835	KURTOSIS	4.836	SKEWNESS	1.600
RANGE	12.390	MINIMUM	43.450	MAXIMUM	55.840
SUM	905.280				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.701	STD ERROR	.162	STD DEV	.706
VARIANCE	.498	KURTOSIS	2.313	SKEWNESS	1.034
RANGE	3.200	MINIMUM	.470	MAXIMUM	3.670
SUM	32.310				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.047	STD ERROR	.410	STD DEV	1.787
VARIANCE	3.195	KURTOSIS	.803	SKEWNESS	-.466
RANGE	7.570	MINIMUM	10.970	MAXIMUM	18.540
SUM	285.900				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.009	STD ERROR	.294	STD DEV	1.281
VARIANCE	1.641	KURTOSIS	-1.131	SKEWNESS	.290
RANGE	4.129	MINIMUM	10.291	MAXIMUM	14.420
SUM	228.163				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE FE0

MEAN	7.978	STD ERROR	.658	STD DEV	1.317
VARIANCE	1.734	KURTOSIS	3.489	SKEWNESS	-1.831
RANGE	2.890	MINIMUM	6.030	MAXIMUM	8.920
SUM	31.910				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 15

VARIABLE MNO

MEAN	.137	STD ERROR	.007	STD DEV	.030
VARIANCE	.001	KURTOSIS	-.375	SKEWNESS	-.700
RANGE	.100	MINIMUM	.080	MAXIMUM	.180
SUM	2.600				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.524	STD ERROR	.489	STD DEV	2.130
VARIANCE	4.537	KURTOSIS	-.308	SKEWNESS	.161
RANGE	7.980	MINIMUM	3.990	MAXIMUM	11.970
SUM	142.950				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.256	STD ERROR	.675	STD DEV	2.940
VARIANCE	8.644	KURTOSIS	.165	SKEWNESS	-.848
RANGE	10.370	MINIMUM	1.750	MAXIMUM	12.120
SUM	156.860				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.353	STD ERROR	.210	STD DEV	.914
VARIANCE	.835	KURTOSIS	-.220	SKEWNESS	.597
RANGE	3.350	MINIMUM	2.010	MAXIMUM	5.360
SUM	63.700				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.702	STD ERROR	.138	STD DEV	.601
VARIANCE	.361	KURTOSIS	-.212	SKEWNESS	.865
RANGE	1.890	MINIMUM	.050	MAXIMUM	1.940
SUM	13.330				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.316	STD ERROR	.040	STD DEV	.176
VARIANCE	.031	KURTOSIS	2.596	SKEWNESS	1.776
RANGE	.650	MINIMUM	.160	MAXIMUM	.810
SUM	6.010				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.062	STD ERROR	.016	STD DEV	.062
VARIANCE	.004	KURTOSIS	5.749	SKEWNESS	2.201
RANGE	.240	MINIMUM	.010	MAXIMUM	.250
SUM	.930				

VALID OBSERVATIONS - 15 MISSING OBSERVATIONS - 4

VARIABLE LOI

MEAN	3.449	STD ERROR	.479	STD DEV	2.090
VARIANCE	4.366	KURTOSIS	.629	SKEWNESS	.728
RANGE	8.490	MINIMUM	.250	MAXIMUM	8.740
SUM	65.530				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 313 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
75 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1048 OR 1049 OR 1050 OR 1052 OR 1054 OR 1055 OR 2017
OR 2021 OR 2024 OR 2025 OR 2027 OR 2090 OR 2092 OR 2091)
TASK NAME ROCK CODE 6 - MCV
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	46.675	STD ERROR	.536	STD DEV	2.005
VARIANCE	4.019	KURTOSIS	.426	SKEWNESS	.814
RANGE	7.060	MINIMUM	44.070	MAXIMUM	51.130
SUM	653.450				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	2.476	STD ERROR	.268	STD DEV	1.002
VARIANCE	1.004	KURTOSIS	.077	SKEWNESS	-.306
RANGE	3.510	MINIMUM	.480	MAXIMUM	3.990
SUM	34.660				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	14.668	STD ERROR	.351	STD DEV	1.312
VARIANCE	1.721	KURTOSIS	.037	SKEWNESS	.471
RANGE	4.630	MINIMUM	12.610	MAXIMUM	17.240
SUM	205.350				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	13.643	STD ERROR	.369	STD DEV	1.379
VARIANCE	1.901	KURTOSIS	-.389	SKEWNESS	.311
RANGE	4.950	MINIMUM	11.330	MAXIMUM	16.280
SUM	191.000				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	8.533	STD ERROR	.252	STD DEV	.713
VARIANCE	.509	KURTOSIS	.951	SKEWNESS	-.802
RANGE	2.320	MINIMUM	7.180	MAXIMUM	9.500
SUM	68.260				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 6

VARIABLE MNO

MEAN	.139	STD ERROR	.012	STD DEV	.046
VARIANCE	.002	KURTOSIS	2.369	SKEWNESS	-1.344
RANGE	.180	MINIMUM	.020	MAXIMUM	.200
SUM	1.940				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.396	STD ERROR	.362	STD DEV	1.353
VARIANCE	1.831	KURTOSIS	-1.072	SKEWNESS	.642
RANGE	4.120	MINIMUM	4.700	MAXIMUM	8.820
SUM	89.550				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	6.785	STD ERROR	.708	STD DEV	2.651
VARIANCE	7.026	KURTOSIS	1.005	SKEWNESS	-1.208
RANGE	8.760	MINIMUM	1.050	MAXIMUM	9.810
SUM	94.990				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.534	STD ERROR	.240	STD DEV	.896
VARIANCE	.804	KURTOSIS	.093	SKEWNESS	-.969
RANGE	2.980	MINIMUM	1.600	MAXIMUM	4.580
SUM	49.480				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.491	STD ERROR	.088	STD DEV	.330
VARIANCE	.109	KURTOSIS	-1.119	SKEWNESS	.048
RANGE	1.000	MINIMUM	0.	MAXIMUM	1.000
SUM	6.880				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.407	STD ERROR	.025	STD DEV	.092
VARIANCE	.008	KURTOSIS	-.201	SKEWNESS	.528
RANGE	.300	MINIMUM	.280	MAXIMUM	.580
SUM	5.700				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.175	STD ERROR	.131	STD DEV	.322
VARIANCE	.104	KURTOSIS	5.848	SKEWNESS	2.411
RANGE	.810	MINIMUM	.020	MAXIMUM	.830
SUM	1.050				

VALID OBSERVATIONS - 6 MISSING OBSERVATIONS - 8

VARIABLE LOI

MEAN	5.249	STD ERROR	.532	STD DEV	1.991
VARIANCE	3.966	KURTOSIS	-.563	SKEWNESS	.727
RANGE	6.170	MINIMUM	2.880	MAXIMUM	9.050
SUM	73.480				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 231 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
55 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 13)
TASK_NAME ROCK CODE 13 - 5D
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	49.950	STD ERROR	3.003	STD DEV	6.005
VARIANCE	36.062	KURTOSIS	2.183	SKEWNESS	1.460
RANGE	13.600	MINIMUM	44.920	MAXIMUM	58.520
SUM	199.800				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.537	STD ERROR	.279	STD DEV	.557
VARIANCE	.311	KURTOSIS	2.785	SKEWNESS	1.691
RANGE	1.200	MINIMUM	.150	MAXIMUM	1.350
SUM	2.150				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.498	STD ERROR	.903	STD DEV	1.806
VARIANCE	3.260	KURTOSIS	2.493	SKEWNESS	1.405
RANGE	4.200	MINIMUM	13.870	MAXIMUM	18.070
SUM	61.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	10.019	STD ERROR	1.024	STD DEV	2.048
VARIANCE	4.195	KURTOSIS	.680	SKEWNESS	-1.152
RANGE	4.595	MINIMUM	7.206	MAXIMUM	11.801
SUM	40.075				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.085	STD ERROR	.778	STD DEV	1.556
VARIANCE	2.421	KURTOSIS	-1.509	SKEWNESS	-.403
RANGE	3.550	MINIMUM	5.170	MAXIMUM	8.720
SUM	28.340				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

 VARIABLE MNO

MEAN	.135	STD ERROR	.026	STD DEV	.052
VARIANCE	.003	KURTOSIS	-.952	SKEWNESS	.456
RANGE	.120	MINIMUM	.080	MAXIMUM	.200
SUM	.540				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

 VARIABLE MGO

MEAN	5.490	STD ERROR	1.019	STD DEV	2.037
VARIANCE	4.151	KURTOSIS	-1.050	SKEWNESS	-.897
RANGE	4.320	MINIMUM	2.810	MAXIMUM	7.130
SUM	21.960				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

 VARIABLE CAO

MEAN	6.882	STD ERROR	1.292	STD DEV	2.583
VARIANCE	6.673	KURTOSIS	3.457	SKEWNESS	-1.843
RANGE	5.580	MINIMUM	3.060	MAXIMUM	8.640
SUM	27.530				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

 VARIABLE NA20

MEAN	1.630	STD ERROR	.395	STD DEV	.789
VARIANCE	.623	KURTOSIS	1.332	SKEWNESS	-.550
RANGE	1.910	MINIMUM	.600	MAXIMUM	2.510
SUM	6.520				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

ROCK CODE 13 - 50

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	2.168	STD ERROR	.702	STD DEV	1.405
VARIANCE	1.973	KURTOSIS	1.756	SKEWNESS	-.681
RANGE	3.410	MINIMUM	.300	MAXIMUM	3.710
SUM	8.670				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.295	STD ERROR	.054	STD DEV	.107
VARIANCE	.012	KURTOSIS	.146	SKEWNESS	-1.038
RANGE	.240	MINIMUM	.150	MAXIMUM	.390
SUM	1.180				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

VARIABLE LOI

MEAN	8.190	STD ERROR	1.171	STD DEV	2.342
VARIANCE	5.484	KURTOSIS	.118	SKEWNESS	-1.053
RANGE	5.210	MINIMUM	5.020	MAXIMUM	10.230
SUM	32.760				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED: 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 3) AND NEWSEQ NE 2052 AND 2049 AND 1024)
TASK NAME ROCK CODE 3 - 3G
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 3 - 3G

FILE GEO1 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE SI02

MEAN	56.886	STD ERROR	.826	STD DEV	3.504
VARIANCE	12.277	KURTOSIS	2.116	SKEWNESS	-1.358
RANGE	13.730	MINIMUM	47.220	MAXIMUM	60.950
SUM	1023.950				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.783	STD ERROR	.068	STD DEV	.288
VARIANCE	.083	KURTOSIS	4.441	SKEWNESS	1.568
RANGE	1.310	MINIMUM	.350	MAXIMUM	1.660
SUM	14.100				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	20.532	STD ERROR	.496	STD DEV	2.105
VARIANCE	4.429	KURTOSIS	-.602	SKEWNESS	.873
RANGE	6.490	MINIMUM	18.230	MAXIMUM	24.720
SUM	369.570				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.077	STD ERROR	.464	STD DEV	1.967
VARIANCE	3.869	KURTOSIS	.812	SKEWNESS	1.021
RANGE	7.220	MINIMUM	6.240	MAXIMUM	13.460
SUM	163.380				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 3 - 3G

FILE GEO1 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE MNO

MEAN	.082	STD ERROR	.008	STD DEV	.035
VARIANCE	.001	KURTOSIS	-.983	SKEWNESS	.599
RANGE	.110	MINIMUM	.030	MAXIMUM	.140
SUM	1.480				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.291	STD ERROR	.135	STD DEV	.572
VARIANCE	.327	KURTOSIS	3.994	SKEWNESS	1.717
RANGE	2.520	MINIMUM	1.500	MAXIMUM	4.020
SUM	41.230				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	1.188	STD ERROR	.356	STD DEV	1.512
VARIANCE	2.285	KURTOSIS	2.572	SKEWNESS	1.898
RANGE	4.690	MINIMUM	.220	MAXIMUM	4.910
SUM	21.390				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.167	STD ERROR	.112	STD DEV	.477
VARIANCE	.227	KURTOSIS	-.653	SKEWNESS	.219
RANGE	1.700	MINIMUM	.350	MAXIMUM	2.050
SUM	21.000				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.367	STD ERROR	.148	STD DEV	.629
VARIANCE	.396	KURTOSIS	.045	SKEWNESS	-.023
RANGE	2.510	MINIMUM	3.000	MAXIMUM	5.510
SUM	78.600				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.154	STD ERROR	.010	STD DEV	.042
VARIANCE	.002	KURTOSIS	1.068	SKEWNESS	1.048
RANGE	.160	MINIMUM	.100	MAXIMUM	.260
SUM	2.770				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.039	STD ERROR	.011	STD DEV	.041
VARIANCE	.002	KURTOSIS	2.307	SKEWNESS	1.756
RANGE	.130	MINIMUM	.010	MAXIMUM	.140
SUM	.510				

VALID OBSERVATIONS - 13 MISSING OBSERVATIONS - 5

VARIABLE LOI

MEAN	3.443	STD ERROR	.280	STD DEV	1.186
VARIANCE	1.408	KURTOSIS	.893	SKEWNESS	-.816
RANGE	4.720	MINIMUM	.660	MAXIMUM	5.380
SUM	61.970				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 25)
TASK NAME ROCK CODE 25 - ARGBS

UU 6043244320 03/06/80 10:30:58
PRINT:ON PUNCH:ON PAPER: CARDS:
/PE 03:14:42 03/06/80 1402 PQS003
1 QUEUED JOBS FOR YOUR REQUEST

SIZE: USER:
LIBS

ID...13308 NOP..64 UT-ANY FORMS-ST2 NOC 1 PL-66

PQS003 1402

MH

LIBS

AT: 03/06/80 10:31:03 JOB: 13308

UU 40-01-016 6043244320 4

COPY: 1 *

ROCK CODE 3 - 3G

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	4.367	STD ERROR	.148	STD DEV	.629
VARIANCE	.396	KURTOSIS	.045	SKEWNESS	-.023
RANGE	2.510	MINIMUM	3.000	MAXIMUM	5.510
SUM	78.600				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.154	STD ERROR	.010	STD DEV	.042
VARIANCE	.002	KURTOSIS	1.068	SKEWNESS	1.048
RANGE	.160	MINIMUM	.100	MAXIMUM	.260
SUM	2.770				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.039	STD ERROR	.011	STD DEV	.041
VARIANCE	.002	KURTOSIS	2.307	SKEWNESS	1.756
RANGE	.130	MINIMUM	.010	MAXIMUM	.140
SUM	.510				

VALID OBSERVATIONS - 13 MISSING OBSERVATIONS - 5

VARIABLE LOI

MEAN	3.443	STD ERROR	.280	STD DEV	1.186
VARIANCE	1.408	KURTOSIS	.893	SKEWNESS	-.816
RANGE	4.720	MINIMUM	.660	MAXIMUM	5.380
SUM	61.970				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 25)
TASK NAME ROCK CODE 25 - ARGBS
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 25 - ARGBS

FILE GEO1 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE SI02

MEAN	46.790	STD ERROR	.395	STD DEV	.883
VARIANCE	.779	KURTOSIS	3.563	SKEWNESS	-1.848
RANGE	2.200	MINIMUM	45.270	MAXIMUM	47.470
SUM	233.950				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.492	STD ERROR	.200	STD DEV	.446
VARIANCE	.199	KURTOSIS	1.816	SKEWNESS	1.215
RANGE	1.160	MINIMUM	1.050	MAXIMUM	2.210
SUM	7.460				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.268	STD ERROR	.401	STD DEV	.896
VARIANCE	.802	KURTOSIS	-.815	SKEWNESS	-.463
RANGE	2.290	MINIMUM	14.030	MAXIMUM	16.320
SUM	76.340				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.069	STD ERROR	.868	STD DEV	1.942
VARIANCE	3.771	KURTOSIS	-1.288	SKEWNESS	.934
RANGE	4.405	MINIMUM	10.479	MAXIMUM	14.884
SUM	60.347				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.740	STD ERROR	.525	STD DEV	1.050
VARIANCE	1.102	KURTOSIS	1.241	SKEWNESS	.000
RANGE	2.560	MINIMUM	6.460	MAXIMUM	9.020
SUM	30.960				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 1

 VARIABLE MNO

MEAN	.192	STD ERROR	.032	STD DEV	.072
VARIANCE	.005	KURTOSIS	4.621	SKEWNESS	2.130
RANGE	.170	MINIMUM	.150	MAXIMUM	.320
SUM	.960				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.916	STD ERROR	.779	STD DEV	1.741
VARIANCE	3.033	KURTOSIS	.199	SKEWNESS	.519
RANGE	4.620	MINIMUM	5.810	MAXIMUM	10.430
SUM	39.580				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.220	STD ERROR	.713	STD DEV	1.595
VARIANCE	2.545	KURTOSIS	-1.469	SKEWNESS	-.547
RANGE	3.800	MINIMUM	8.020	MAXIMUM	11.820
SUM	51.100				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	2.804	STD ERROR	.295	STD DEV	.659
VARIANCE	.434	KURTOSIS	-1.481	SKEWNESS	-.597
RANGE	1.610	MINIMUM	1.900	MAXIMUM	3.510
SUM	14.020				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.510	STD ERROR	.130	STD DEV	.290
VARIANCE	.084	KURTOSIS	-3.138	SKEWNESS	.558
RANGE	.600	MINIMUM	.250	MAXIMUM	.850
SUM	2.550				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.156	STD ERROR	.020	STD DEV	.044
VARIANCE	.002	KURTOSIS	-2.030	SKEWNESS	-.113
RANGE	.100	MINIMUM	.100	MAXIMUM	.200
SUM	.780				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	3.266	STD ERROR	.489	STD DEV	1.093
VARIANCE	1.194	KURTOSIS	1.633	SKEWNESS	-.692
RANGE	3.010	MINIMUM	1.600	MAXIMUM	4.610
SUM	16.330				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 27) AND NEWSEQ NE 2106 AND 2107)
TASK NAME ROCK CODE 27 - ARGBK
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	47.203	STD ERROR	1.776	STD DEV	3.077
VARIANCE	9.466	KURTOSIS	0.	SKEWNESS	-1.477
RANGE	5.800	MINIMUM	43.710	MAXIMUM	49.510
SUM	141.610				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.537	STD ERROR	.225	STD DEV	.390
VARIANCE	.152	KURTOSIS	0.	SKEWNESS	-1.281
RANGE	.750	MINIMUM	1.100	MAXIMUM	1.850
SUM	4.610				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	13.150	STD ERROR	.917	STD DEV	1.588
VARIANCE	2.521	KURTOSIS	0.	SKEWNESS	-.845
RANGE	3.130	MINIMUM	11.430	MAXIMUM	14.560
SUM	39.450				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.334	STD ERROR	.862	STD DEV	1.494
VARIANCE	2.231	KURTOSIS	0.	SKEWNESS	1.657
RANGE	2.722	MINIMUM	11.328	MAXIMUM	14.050
SUM	37.001				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.775	STD ERROR	.155	STD DEV	.219
VARIANCE	.048	KURTOSIS	0.	SKEWNESS	0.
RANGE	.310	MINIMUM	7.620	MAXIMUM	7.930
SUM	15.550				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 1

 VARIABLE MNO

MEAN	.143	STD ERROR	.018	STD DEV	.031
VARIANCE	.001	KURTOSIS	0.	SKEWNESS	-.935
RANGE	.060	MINIMUM	.110	MAXIMUM	.170
SUM	.430				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	9.530	STD ERROR	2.419	STD DEV	4.189
VARIANCE	17.550	KURTOSIS	0.	SKEWNESS	1.336
RANGE	8.020	MINIMUM	6.220	MAXIMUM	14.240
SUM	28.590				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.270	STD ERROR	1.228	STD DEV	2.127
VARIANCE	4.523	KURTOSIS	0.	SKEWNESS	-1.633
RANGE	3.900	MINIMUM	8.830	MAXIMUM	12.730
SUM	33.810				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	2.660	STD ERROR	.918	STD DEV	1.590
VARIANCE	2.529	KURTOSIS	0.	SKEWNESS	-.421
RANGE	3.170	MINIMUM	1.000	MAXIMUM	4.170
SUM	7.980				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.500	STD ERROR	.247	STD DEV	.427
VARIANCE	.183	KURTOSIS	0.	SKEWNESS	.519
RANGE	.850	MINIMUM	.100	MAXIMUM	.950
SUM	1.500				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.197	STD ERROR	.047	STD DEV	.081
VARIANCE	.007	KURTOSIS	0.	SKEWNESS	1.615
RANGE	.150	MINIMUM	.140	MAXIMUM	.290
SUM	.590				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	2.043	STD ERROR	.563	STD DEV	.975
VARIANCE	.951	KURTOSIS	0.	SKEWNESS	1.605
RANGE	1.800	MINIMUM	1.360	MAXIMUM	3.160
SUM	6.130				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 48 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
11 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 29)
TASK_NAME ROCK CODE 29 - ARG8D
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 29 - ARGBD

FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE S102

MEAN	47.140	STD ERROR	1.120	STD DEV	1.584
VARIANCE	2.509	KURTOSIS	0.	SKEWNESS	0.
RANGE	2.240	MINIMUM	46.020	MAXIMUM	48.260
SUM	94.280				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.465	STD ERROR	.455	STD DEV	.643
VARIANCE	.414	KURTOSIS	0.	SKEWNESS	0.
RANGE	.910	MINIMUM	1.010	MAXIMUM	1.920
SUM	2.930				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.275	STD ERROR	.815	STD DEV	1.153
VARIANCE	1.328	KURTOSIS	0.	SKEWNESS	0.
RANGE	1.630	MINIMUM	14.460	MAXIMUM	16.090
SUM	30.550				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	11.549	STD ERROR	2.304	STD DEV	3.259
VARIANCE	10.618	KURTOSIS	0.	SKEWNESS	0.
RANGE	4.608	MINIMUM	9.245	MAXIMUM	13.853
SUM	23.098				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	8.120	STD ERROR	.980	STD DEV	1.386
VARIANCE	1.921	KURTOSIS	0.	SKEWNESS	0.
RANGE	1.960	MINIMUM	7.140	MAXIMUM	9.100
SUM	16.240				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

 VARIABLE MNO

MEAN	.180	STD ERROR	.030	STD DEV	.042
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	0.
RANGE	.060	MINIMUM	.150	MAXIMUM	.210
SUM	.360				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.460	STD ERROR	.180	STD DEV	.255
VARIANCE	.065	KURTOSIS	0.	SKEWNESS	0.
RANGE	.360	MINIMUM	7.280	MAXIMUM	7.640
SUM	14.920				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.790	STD ERROR	.170	STD DEV	.240
VARIANCE	.058	KURTOSIS	0.	SKEWNESS	0.
RANGE	.340	MINIMUM	10.620	MAXIMUM	10.960
SUM	21.580				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	3.375	STD ERROR	.445	STD DEV	.629
VARIANCE	.396	KURTOSIS	0.	SKEWNESS	0.
RANGE	.890	MINIMUM	2.930	MAXIMUM	3.820
SUM	6.750				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

ROCK CODE 29 - ARGBD
 FILE GE01 (CREATION DATE = 03/05/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	.530	STD ERROR	.430	STD DEV	.608
VARIANCE	.370	KURTOSIS	0.	SKEWNESS	0.
RANGE	.860	MINIMUM	.100	MAXIMUM	.960
SUM	1.060				

VALID OBSERVATIONS = 2 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.215	STD ERROR	.005	STD DEV	.007
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	0.
RANGE	.010	MINIMUM	.210	MAXIMUM	.220
SUM	.430				

VALID OBSERVATIONS = 2 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	2.925	STD ERROR	.395	STD DEV	.559
VARIANCE	.312	KURTOSIS	0.	SKEWNESS	0.
RANGE	.790	MINIMUM	2.530	MAXIMUM	3.320
SUM	5.850				

VALID OBSERVATIONS = 2 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

FINISH

NORMAL END OF JOB.
52 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

DECEMBER 13, 1979

GEOCHEMICAL DATA - WHOLE ROCK ANALYSES

POS001 GEOCHM

MH

LIBS

AT: 12/13/79 15:04:54 JOB: 21315

UU 40-01-002 6043244320 2

COPY: 1 *

SPSS: CONDESCRIPTIVE FOR EACH ELEMENT

STATISTICS ALL

For the FILE - NORMALIZED WITHOUT LOI

(LOI does not include S when S is
analyzed separately)

⚡
Normalized File 2

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
RB	F 8. 2	1	218- 225
SR	F 8. 2	1	226- 233
ZR	F 8. 2	1	234- 241
Y	F 8. 2	1	242- 249

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 1 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 249 'COLUMNS' ARE USED ON A RECORD.

RECODE	SPEC (' '=0)
MISSING VALUES	SIO2 TO Y (-.01)
VAR LABELS	SPEC SPECIMEN ID / GROUP DATA GROUP / SEQ SAMPLE SEQUENCE
VALUE LABELS	SPEC ('F')FIELD SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/ GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/ ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)SCU (8)5CG (9)STDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E (16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B (23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SFV (29)ARGBD (30)FLSZG (31)0E8 (32)1CD (33)0E7 (34)1C6 (35)1D4 (36)0E6 (37)0D8 (38)1C5 (39)0E (40)1D (41)STD SY-3 (42)2A (43)1D+16
PRINT FORMATS	SPEC (A) / SIO2 TO Y (2)
READ INPUT DATA	

AFTER READING 394 CASES FROM SUBFILE GCHSS2 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
0 IF/COMPUTE OPERATIONS

TASK NAME NORMALIZED WITHOUT L.O.I.
FREQUENCIES GENERAL=SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

NORMALIZED WITHOUT L.O.I.

FILE GCHSS2 (CREATION DATE = 12/13/79)

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	20	5.1	5.1	5.1
FIELD SAMPLE	F	208	52.8	52.8	57.9
FIELD SAMPLE	0	166	42.1	42.1	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	56	14.2	14.2	14.2
1979 WHOLE ROCK	2.	120	30.5	30.5	44.7
SECTION 118	3.	218	55.3	55.3	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE	ADJUSTED	CUM
			FREQ (PCT)	FREQ (PCT)	FREQ (PCT)
1F	1.	8	2.0	2.0	2.0
3C	2.	7	1.8	1.8	3.8
3G	3.	22	5.6	5.6	9.4
5C	4.	26	6.6	6.6	16.0
5F	5.	2	.5	.5	16.5
MCV	6.	35	8.9	8.9	25.4
5CU	7.	1	.3	.3	25.6
5CG	8.	1	.3	.3	25.9
STDMRG-1	9.	11	2.8	2.8	28.7
UNK	10.	1	.3	.3	28.9
KSMB	11.	6	1.5	1.5	30.5
KSE	12.	2	.5	.5	31.0
5D	13.	5	1.3	1.3	32.2
1C	14.	12	3.0	3.0	35.3
3E	15.	1	.3	.3	35.5
3G-D	16.	1	.3	.3	35.8
STD SY-2	17.	6	1.5	1.5	37.3
3D	18.	11	2.8	2.8	40.1
3DW	19.	3	.8	.8	40.9
3DV	20.	1	.3	.3	41.1
5BD	21.	1	.3	.3	41.4
5B	22.	10	2.5	2.5	43.9

NORMALIZED WITHOUT L.O.I.

FILE GCHSS2 (CREATION DATE = 12/13/79)

5B3	23.	1	.3	.3	44.2
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.4
ARGBK	27.	5	1.3	1.3	47.7
SFV	28.	2	.5	.5	48.2
ARGBD	29.	2	.5	.5	48.7
FLSZG	30.	3	.8	.8	49.5
0E8	31.	11	2.8	2.8	52.3
1CD	32.	47	11.9	11.9	64.2
0E7	33.	2	.5	.5	64.7
1C6	34.	22	5.6	5.6	70.3
1D4	35.	35	8.9	8.9	79.2
0E6	36.	1	.3	.3	79.4
0D8	37.	1	.3	.3	79.7
1C5	38.	3	.8	.8	80.5
0E	39.	6	1.5	1.5	82.0
1D	40.	66	16.8	16.8	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D+16	43.	1	.3	.3	100.0
TOTAL		394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

CONDESCRIPTIVE SI02 TO S BA TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE SI02

MEAN	56.361	STD ERROR	.369	STD DEV	7.325
VARIANCE	53.657	KURTOSIS	.897	SKEWNESS	-.030
RANGE	57.180	MINIMUM	31.380	MAXIMUM	88.560
SUM	22206.400				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.024	STD ERROR	.047	STD DEV	.938
VARIANCE	.880	KURTOSIS	3.725	SKEWNESS	2.008
RANGE	4.940	MINIMUM	0.	MAXIMUM	4.940
SUM	403.380				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	18.125	STD ERROR	.210	STD DEV	4.173
VARIANCE	17.410	KURTOSIS	.440	SKEWNESS	-.472
RANGE	29.910	MINIMUM	.860	MAXIMUM	30.770
SUM	7141.170				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	8.712	STD ERROR	.178	STD DEV	3.543
VARIANCE	12.550	KURTOSIS	.368	SKEWNESS	.037
RANGE	19.430	MINIMUM	.170	MAXIMUM	19.600
SUM	3432.720				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.896	STD ERROR	.289	STD DEV	2.431
VARIANCE	5.911	KURTOSIS	1.865	SKEWNESS	-.138
RANGE	14.900	MINIMUM	1.460	MAXIMUM	16.360
SUM	560.620				

VALID OBSERVATIONS - 71 MISSING OBSERVATIONS - 323

 VARIABLE MNO

MEAN	.118	STD ERROR	.003	STD DEV	.068
VARIANCE	.005	KURTOSIS	9.501	SKEWNESS	2.083
RANGE	.620	MINIMUM	.010	MAXIMUM	.630
SUM	46.390				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE MGO

MEAN	4.238	STD ERROR	.193	STD DEV	3.828
VARIANCE	14.650	KURTOSIS	12.117	SKEWNESS	2.783
RANGE	32.940	MINIMUM	.310	MAXIMUM	33.250
SUM	1669.780				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE CAO

MEAN	4.741	STD ERROR	.278	STD DEV	5.521
VARIANCE	30.479	KURTOSIS	10.277	SKEWNESS	2.115
RANGE	49.170	MINIMUM	.120	MAXIMUM	49.290
SUM	1867.870				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE NA20

MEAN	1.579	STD ERROR	.068	STD DEV	1.356
VARIANCE	1.838	KURTOSIS	.134	SKEWNESS	1.096
RANGE	5.600	MINIMUM	.110	MAXIMUM	5.710
SUM	622.050				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

NORMALIZED WITHOUT L.O.I.

FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE K20

MEAN	3.006	STD ERROR	.088	STD DEV	1.750
VARIANCE	3.064	KURTOSIS	-1.126	SKEWNESS	-.469
RANGE	6.720	MINIMUM	0.	MAXIMUM	6.720
SUM	1184.440				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.214	STD ERROR	.007	STD DEV	.138
VARIANCE	.019	KURTOSIS	3.383	SKEWNESS	1.827
RANGE	.820	MINIMUM	.040	MAXIMUM	.860
SUM	84.240				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.659	STD ERROR	.088	STD DEV	1.462
VARIANCE	2.137	KURTOSIS	32.370	SKEWNESS	5.196
RANGE	13.050	MINIMUM	.010	MAXIMUM	13.060
SUM	180.680				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE BA

MEAN	1605.208	STD ERROR	363.597	STD DEV	6018.606
VARIANCE	*****	KURTOSIS	185.038	SKEWNESS	12.961
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	439827.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE CU

MEAN	237.580	STD ERROR	111.018	STD DEV	1837.682
VARIANCE	*****	KURTOSIS	254.677	SKEWNESS	15.724
RANGE	29996.000	MINIMUM	4.000	MAXIMUM	30000.000
SUM	65097.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE PB

MEAN	293.931	STD ERROR	121.036	STD DEV	2003.510
VARIANCE	*****	KURTOSIS	111.897	SKEWNESS	10.024
RANGE	25998.000	MINIMUM	2.000	MAXIMUM	26000.000
SUM	80537.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE ZN

MEAN	411.839	STD ERROR	140.421	STD DEV	2324.389
VARIANCE	*****	KURTOSIS	120.557	SKEWNESS	10.287
RANGE	30980.000	MINIMUM	20.000	MAXIMUM	31000.000
SUM	112844.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CD

MEAN	1.217	STD ERROR	.749	STD DEV	12.392
VARIANCE	153.553	KURTOSIS	245.191	SKEWNESS	15.339
RANGE	200.000	MINIMUM	0.	MAXIMUM	200.000
SUM	333.400				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

65

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE AG

MEAN	8.692	STD ERROR	.172	STD DEV	2.845
VARIANCE	8.096	KURTOSIS	71.716	SKEWNESS	7.964
RANGE	32.000	MINIMUM	0.	MAXIMUM	32.000
SUM	189.600				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CR

MEAN	134.077	STD ERROR	8.796	STD DEV	145.604
VARIANCE	21200.401	KURTOSIS	23.751	SKEWNESS	4.395
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	36737.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE V

MEAN	130.438	STD ERROR	5.129	STD DEV	84.898
VARIANCE	7207.712	KURTOSIS	21.419	SKEWNESS	4.015
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	35740.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CO

MEAN	35.978	STD ERROR	.854	STD DEV	14.132
VARIANCE	199.721	KURTOSIS	6.356	SKEWNESS	2.077
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9858.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE NI

MEAN	56.675	STD ERROR	4.818	STD DEV	79.752
VARIANCE	6360.411	KURTOSIS	47.527	SKEWNESS	6.134
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15529.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE MO

MEAN	3.828	STD ERROR	.080	STD DEV	1.327
VARIANCE	1.762	KURTOSIS	28.852	SKEWNESS	3.992
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1049.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE RB

MEAN	132.168	STD ERROR	3.630	STD DEV	60.086
VARIANCE	3610.287	KURTOSIS	.168	SKEWNESS	-1.013
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	36214.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE SR

MEAN	132.328	STD ERROR	13.018	STD DEV	215.494
VARIANCE	46437.862	KURTOSIS	115.840	SKEWNESS	9.186
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	36258.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE ZR

MEAN	153.036	STD ERROR	7.306	STD DEV	77.320
VARIANCE	5978.323	KURTOSIS	2.499	SKEWNESS	1.293
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	17140.000				

VALID OBSERVATIONS - 112 MISSING OBSERVATIONS - 282

VARIABLE Y

MEAN	19.027	STD ERROR	6.680	STD DEV	70.696
VARIANCE	4997.990	KURTOSIS	93.246	SKEWNESS	9.331
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2131.000				

VALID OBSERVATIONS - 112 MISSING OBSERVATIONS - 282

SAVE FILE

FILE GCHSS2 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	GROUP	SEQ	ROCKCODE	SI02	T102	AL203
FE203	FEO	MNO	MGO	CAO	NA20	K20	P205	S	LOI
BA	CU	PB	ZN	CD	AG	CR	V	CO	NI
MO	RB	SR	ZR	Y					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS2	394

FINISH

NORMAL END OF JOB.
28 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

SPSS FOR INFONET CSTS, RELEASE 7.2.2, DECEMBER 10,1979

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSPOSE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 GET FILE GCHSS3

FILE GCHSS3 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS3	374

COMMENT NEW SEQUENCE FROM GROUP & SEQ

```

COMPUTE      NEWVAR = 1000
COMPUTE      NEWSEQ = NEWVAR * GROUP + SEQ
COMMENT      PERMANENT DATA MODIFICATIONS MARCH 4, 1980
IF            (NEWSEQ EQ 1001) ROCKCODE = 2
IF            (NEWSEQ EQ 1005) ROCKCODE = 4
IF            (NEWSEQ EQ 1007) ROCKCODE = 4
IF            (NEWSEQ EQ 1036) ROCKCODE = 2
IF            (NEWSEQ EQ 1056) ROCKCODE = 4
IF            (NEWSEQ EQ 1025) ROCKCODE = 22
*SELECT IF   ((ROCKCODE EQ 1) AND NEWSEQ NE 3039 AND 3157 AND 3218)
TASK NAME    ROCK CODE 1 = 1F
CONDESCRIPTIVE SID2 TO LOI
  
```

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 1 - 1F

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	51.622	STD ERROR	1.032	STD DEV	2.065
VARIANCE	4.264	KURTOSIS	1.714	SKEWNESS	.623
RANGE	5.020	MINIMUM	49.330	MAXIMUM	54.350
SUM	206.490				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.980	STD ERROR	.387	STD DEV	.774
VARIANCE	.600	KURTOSIS	-5.943	SKEWNESS	.009
RANGE	1.390	MINIMUM	1.300	MAXIMUM	2.690
SUM	7.920				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	14.248	STD ERROR	.502	STD DEV	1.004
VARIANCE	1.008	KURTOSIS	-5.863	SKEWNESS	-.010
RANGE	1.850	MINIMUM	13.310	MAXIMUM	15.160
SUM	56.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	13.003	STD ERROR	.563	STD DEV	1.127
VARIANCE	1.270	KURTOSIS	-4.632	SKEWNESS	-.240
RANGE	2.210	MINIMUM	11.750	MAXIMUM	13.960
SUM	52.010				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.165	STD ERROR	.013	STD DEV	.025
VARIANCE	.001	KURTOSIS	2.227	SKEWNESS	-1.129
RANGE	.060	MINIMUM	.130	MAXIMUM	.190
SUM	.660				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.863	STD ERROR	1.655	STD DEV	3.310
VARIANCE	10.957	KURTOSIS	3.626	SKEWNESS	1.886
RANGE	7.120	MINIMUM	5.660	MAXIMUM	12.780
SUM	31.450				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.690	STD ERROR	1.015	STD DEV	2.029
VARIANCE	4.118	KURTOSIS	-4.941	SKEWNESS	-.033
RANGE	4.120	MINIMUM	6.600	MAXIMUM	10.720
SUM	34.760				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.973	STD ERROR	.547	STD DEV	1.094
VARIANCE	1.197	KURTOSIS	3.061	SKEWNESS	1.682
RANGE	2.460	MINIMUM	1.110	MAXIMUM	3.570
SUM	7.890				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

ROCK CODE 1 - 1F

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.205	STD ERROR	.049	STD DEV	.099
VARIANCE	.010	KURTOSIS	-2.677	SKEWNESS	.199
RANGE	.220	MINIMUM	.100	MAXIMUM	.320
SUM	.820				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.248	STD ERROR	.040	STD DEV	.079
VARIANCE	.006	KURTOSIS	.304	SKEWNESS	-.173
RANGE	.190	MINIMUM	.150	MAXIMUM	.340
SUM	.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.243	STD ERROR	.102	STD DEV	.204
VARIANCE	.042	KURTOSIS	1.002	SKEWNESS	.616
RANGE	.490	MINIMUM	.020	MAXIMUM	.510
SUM	.970				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 225 WORDS
9 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
51 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 2)
TASK NAME ROCK CODE 2 - 3C
CONDESCRIPTIVE S102 TO L01

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 2 - 3C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	49.521	STD ERROR	.569	STD DEV	1.506
VARIANCE	2.269	KURTOSIS	.506	SKEWNESS	-.581
RANGE	4.590	MINIMUM	46.910	MAXIMUM	51.500
SUM	346.650				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	2.023	STD ERROR	.343	STD DEV	.908
VARIANCE	.824	KURTOSIS	1.140	SKEWNESS	.924
RANGE	2.660	MINIMUM	1.030	MAXIMUM	3.690
SUM	14.160				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.514	STD ERROR	.264	STD DEV	.700
VARIANCE	.490	KURTOSIS	1.190	SKEWNESS	-.711
RANGE	2.170	MINIMUM	14.250	MAXIMUM	16.420
SUM	108.600				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.441	STD ERROR	.301	STD DEV	.797
VARIANCE	.636	KURTOSIS	-.393	SKEWNESS	.200
RANGE	2.340	MINIMUM	11.280	MAXIMUM	13.620
SUM	87.090				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.166	STD ERROR	.006	STD DEV	.016
VARIANCE	.000	KURTOSIS	.365	SKEWNESS	-.344
RANGE	.050	MINIMUM	.140	MAXIMUM	.190
SUM	1.160				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.683	STD ERROR	.252	STD DEV	.667
VARIANCE	.445	KURTOSIS	.902	SKEWNESS	-1.102
RANGE	1.930	MINIMUM	5.450	MAXIMUM	7.380
SUM	46.780				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.006	STD ERROR	.368	STD DEV	.972
VARIANCE	.945	KURTOSIS	1.192	SKEWNESS	.899
RANGE	2.980	MINIMUM	8.810	MAXIMUM	11.790
SUM	70.040				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.080	STD ERROR	.141	STD DEV	.374
VARIANCE	.140	KURTOSIS	-1.288	SKEWNESS	.778
RANGE	.940	MINIMUM	2.690	MAXIMUM	3.630
SUM	21.560				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

ROCK CODE 2 - 3C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.344	STD ERROR	.047	STD DEV	.125
VARIANCE	.016	KURTOSIS	-.806	SKEWNESS	-.616
RANGE	.350	MINIMUM	.150	MAXIMUM	.500
SUM	2.410				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.223	STD ERROR	.028	STD DEV	.074
VARIANCE	.005	KURTOSIS	1.631	SKEWNESS	-.658
RANGE	.240	MINIMUM	.090	MAXIMUM	.330
SUM	1.560				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.149	STD ERROR	.084	STD DEV	.221
VARIANCE	.049	KURTOSIS	3.735	SKEWNESS	1.952
RANGE	.600	MINIMUM	.010	MAXIMUM	.610
SUM	1.040				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 2) AND NEWSEQ NE 1010 AND 1008 AND 1009)
TASK NAME ROCK CODE 2 - 3C
CONDESCRIPTIVE SI02 TO L01

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 2 - 3C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	49.977	STD ERROR	.583	STD DEV	1.167
VARIANCE	1.361	KURTOSIS	1.130	SKEWNESS	.572
RANGE	2.810	MINIMUM	48.690	MAXIMUM	51.500
SUM	199.910				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE TI02

MEAN	1.508	STD ERROR	.264	STD DEV	.527
VARIANCE	.278	KURTOSIS	-4.849	SKEWNESS	.180
RANGE	1.050	MINIMUM	1.030	MAXIMUM	2.080
SUM	6.030				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE AL203

MEAN	15.463	STD ERROR	.452	STD DEV	.903
VARIANCE	.816	KURTOSIS	1.543	SKEWNESS	-.804
RANGE	2.170	MINIMUM	14.250	MAXIMUM	16.420
SUM	61.850				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE FE203

MEAN	11.983	STD ERROR	.269	STD DEV	.538
VARIANCE	.289	KURTOSIS	-.714	SKEWNESS	-.797
RANGE	1.210	MINIMUM	11.280	MAXIMUM	12.490
SUM	47.930				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 2 - 3C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.170	STD ERROR	.008	STD DEV	.016
VARIANCE	.000	KURTOSIS	1.500	SKEWNESS	-.000
RANGE	.040	MINIMUM	.150	MAXIMUM	.190
SUM	.680				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE MGO

MEAN	6.812	STD ERROR	.255	STD DEV	.510
VARIANCE	.260	KURTOSIS	-3.665	SKEWNESS	.114
RANGE	1.100	MINIMUM	6.280	MAXIMUM	7.380
SUM	27.250				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE CAO

MEAN	10.605	STD ERROR	.411	STD DEV	.821
VARIANCE	.675	KURTOSIS	2.628	SKEWNESS	1.561
RANGE	1.860	MINIMUM	9.930	MAXIMUM	11.790
SUM	42.420				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE NA2O

MEAN	2.988	STD ERROR	.192	STD DEV	.383
VARIANCE	.147	KURTOSIS	3.294	SKEWNESS	1.740
RANGE	.860	MINIMUM	2.690	MAXIMUM	3.550
SUM	11.950				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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ROCK CODE 2 - 3C

FILE: GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.295	STD ERROR	.068	STD DEV	.135
VARIANCE	.018	KURTOSIS	-5.037	SKEWNESS	-.168
RANGE	.260	MINIMUM	.150	MAXIMUM	.410
SUM	1.180				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE P205

MEAN	.205	STD ERROR	.039	STD DEV	.078
VARIANCE	.006	KURTOSIS	3.527	SKEWNESS	-1.844
RANGE	.170	MINIMUM	.090	MAXIMUM	.260
SUM	.820				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE S

MEAN	.170	STD ERROR	.147	STD DEV	.294
VARIANCE	.086	KURTOSIS	3.914	SKEWNESS	1.976
RANGE	.600	MINIMUM	.010	MAXIMUM	.610
SUM	.680				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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TRANSPACE REQUIRED 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1029 OR 1031 OR 1032 OR 1034 OR 1035 OR 1039 OR 1040
OR 1043 OR 1044 OR 2001 OR 2002 OR 2005 OR 2008 OR 1056 OR 1005
OR 1007)
TASK NAME ROCK CODE 4 - 5C
CONDESCRIPTIVE SID2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 4 - 5C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	49.466	STD ERROR	.698	STD DEV	2.793
VARIANCE	7.802	KURTOSIS	9.635	SKEWNESS	2.914
RANGE	11.710	MINIMUM	47.220	MAXIMUM	58.930
SUM	791.450				

VALID OBSERVATIONS -	16	MISSING OBSERVATIONS -	0
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VARIABLE TI02

MEAN	1.572	STD ERROR	.130	STD DEV	.520
VARIANCE	.270	KURTOSIS	.060	SKEWNESS	-.006
RANGE	1.930	MINIMUM	.510	MAXIMUM	2.440
SUM	25.150				

VALID OBSERVATIONS -	16	MISSING OBSERVATIONS -	0
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VARIABLE AL203

MEAN	15.614	STD ERROR	.537	STD DEV	2.147
VARIANCE	4.609	KURTOSIS	-.248	SKEWNESS	-.130
RANGE	7.880	MINIMUM	11.660	MAXIMUM	19.540
SUM	249.820				

VALID OBSERVATIONS -	16	MISSING OBSERVATIONS -	0
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VARIABLE FE203

MEAN	12.341	STD ERROR	.378	STD DEV	1.511
VARIANCE	2.284	KURTOSIS	-.577	SKEWNESS	.769
RANGE	4.630	MINIMUM	10.580	MAXIMUM	15.210
SUM	197.462				

VALID OBSERVATIONS -	16	MISSING OBSERVATIONS -	0
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VARIABLE FEO

MEAN	8.380	STD ERROR	.683	STD DEV	1.365
VARIANCE	1.864	KURTOSIS	3.341	SKEWNESS	-1.777
RANGE	3.030	MINIMUM	6.370	MAXIMUM	9.400
SUM	33.520				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	12
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VARIABLE MNO

MEAN	.138	STD ERROR	.008	STD DEV	.032
VARIANCE	.001	KURTOSIS	-.574	SKEWNESS	-.568
RANGE	.100	MINIMUM	.080	MAXIMUM	.180
SUM	2.200				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	8.031	STD ERROR	.577	STD DEV	2.308
VARIANCE	5.328	KURTOSIS	-.145	SKEWNESS	.064
RANGE	8.510	MINIMUM	4.210	MAXIMUM	12.720
SUM	128.500				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.398	STD ERROR	.808	STD DEV	3.234
VARIANCE	10.456	KURTOSIS	-.284	SKEWNESS	-.731
RANGE	10.480	MINIMUM	1.840	MAXIMUM	12.320
SUM	134.360				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.538	STD ERROR	.267	STD DEV	1.067
VARIANCE	1.138	KURTOSIS	-.595	SKEWNESS	.505
RANGE	3.600	MINIMUM	2.050	MAXIMUM	5.650
SUM	56.600				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.787	STD ERROR	.166	STD DEV	.665
VARIANCE	.442	KURTOSIS	-.739	SKEWNESS	.590
RANGE	2.000	MINIMUM	.050	MAXIMUM	2.050
SUM	12.600				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.347	STD ERROR	.051	STD DEV	.202
VARIANCE	.041	KURTOSIS	1.718	SKEWNESS	1.594
RANGE	.700	MINIMUM	.160	MAXIMUM	.860
SUM	5.550				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.047	STD ERROR	.010	STD DEV	.033
VARIANCE	.001	KURTOSIS	2.547	SKEWNESS	1.322
RANGE	.120	MINIMUM	.010	MAXIMUM	.130
SUM	.570				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 4

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 16 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 263 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
63 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1008 OR 1009 OR 1010 OR 1029 OR 1031 OR 1032 OR 1034
OR 1035 OR 1039 OR 1040 OR 1043 OR 1044 OR 2001 OR 2002 OR 2005
OR 2008 OR 1056 OR 1005 OR 1007)
TASK NAME ROCK CODE 4 - 3C & 5C
CONDESCRIPTIVE S102 TO L01

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 4 - 3C & 5C

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	49.378	STD ERROR	.606	STD DEV	2.639
VARIANCE	6.966	KURTOSIS	10.005	SKEWNESS	2.877
RANGE	12.020	MINIMUM	46.910	MAXIMUM	58.930
SUM	938.190				

VALID OBSERVATIONS -	19	MISSING OBSERVATIONS -	0
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VARIABLE TI02

MEAN	1.752	STD ERROR	.162	STD DEV	.706
VARIANCE	.498	KURTOSIS	2.082	SKEWNESS	.966
RANGE	3.180	MINIMUM	.510	MAXIMUM	3.690
SUM	33.280				

VALID OBSERVATIONS -	19	MISSING OBSERVATIONS -	0
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VARIABLE AL203

MEAN	15.609	STD ERROR	.451	STD DEV	1.966
VARIANCE	3.866	KURTOSIS	.255	SKEWNESS	-.129
RANGE	7.880	MINIMUM	11.660	MAXIMUM	19.540
SUM	296.570				

VALID OBSERVATIONS -	19	MISSING OBSERVATIONS -	0
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VARIABLE FE203

MEAN	12.454	STD ERROR	.327	STD DEV	1.424
VARIANCE	2.029	KURTOSIS	-.685	SKEWNESS	.545
RANGE	4.630	MINIMUM	10.580	MAXIMUM	15.210
SUM	236.622				

VALID OBSERVATIONS -	19	MISSING OBSERVATIONS -	0
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VARIABLE FEO

MEAN	8.380	STD ERROR	.683	STD DEV	1.365
VARIANCE	1.864	KURTOSIS	3.341	SKEWNESS	-1.777
RANGE	3.030	MINIMUM	6.370	MAXIMUM	9.400
SUM	33.520				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	15
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 VARIABLE MNO

MEAN	.141	STD ERROR	.007	STD DEV	.031
VARIANCE	.001	KURTOSIS	-.271	SKEWNESS	-.754
RANGE	.100	MINIMUM	.080	MAXIMUM	.180
SUM	2.680				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.791	STD ERROR	.506	STD DEV	2.205
VARIANCE	4.861	KURTOSIS	-.013	SKEWNESS	.315
RANGE	8.510	MINIMUM	4.210	MAXIMUM	12.720
SUM	148.030				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	8.525	STD ERROR	.681	STD DEV	2.970
VARIANCE	8.821	KURTOSIS	.357	SKEWNESS	-.907
RANGE	10.480	MINIMUM	1.840	MAXIMUM	12.320
SUM	161.980				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.485	STD ERROR	.227	STD DEV	.991
VARIANCE	.982	KURTOSIS	-.139	SKEWNESS	.667
RANGE	3.600	MINIMUM	2.050	MAXIMUM	5.650
SUM	66.210				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.728	STD ERROR	.143	STD DEV	.624
VARIANCE	.390	KURTOSIS	-.219	SKEWNESS	.857
RANGE	2.000	MINIMUM	.050	MAXIMUM	2.050
SUM	13.830				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.331	STD ERROR	.044	STD DEV	.190
VARIANCE	.036	KURTOSIS	2.584	SKEWNESS	1.788
RANGE	.700	MINIMUM	.160	MAXIMUM	.860
SUM	6.290				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.062	STD ERROR	.016	STD DEV	.062
VARIANCE	.004	KURTOSIS	5.749	SKEWNESS	2.201
RANGE	.240	MINIMUM	.010	MAXIMUM	.250
SUM	.930				

VALID OBSERVATIONS - 15 MISSING OBSERVATIONS - 4

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 19 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 313 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
75 IF/COMPUTE OPERATIONS

*SELECT IF (NEWSEQ EQ 1048 OR 1049 OR 1050 OR 1052 OR 1054 OR 1055 OR 2017
OR 2021 OR 2024 OR 2025 OR 2027 OR 2090 OR 2092 OR 2091)
TASK NAME ROCK CODE 6 - MCV
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 6 - MCV

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	49.298	STD ERROR	.482	STD DEV	1.804
VARIANCE	3.254	KURTOSIS	2.155	SKEWNESS	1.109
RANGE	7.110	MINIMUM	46.770	MAXIMUM	53.880
SUM	690.170				

VALID OBSERVATIONS -	14	MISSING OBSERVATIONS -	0
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VARIABLE TIO2

MEAN	2.605	STD ERROR	.277	STD DEV	1.037
VARIANCE	1.075	KURTOSIS	.092	SKEWNESS	-.320
RANGE	3.670	MINIMUM	.530	MAXIMUM	4.200
SUM	36.470				

VALID OBSERVATIONS -	14	MISSING OBSERVATIONS -	0
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VARIABLE AL2O3

MEAN	15.493	STD ERROR	.356	STD DEV	1.334
VARIANCE	1.779	KURTOSIS	.473	SKEWNESS	.292
RANGE	5.180	MINIMUM	12.990	MAXIMUM	18.170
SUM	216.900				

VALID OBSERVATIONS -	14	MISSING OBSERVATIONS -	0
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VARIABLE FE2O3

MEAN	14.411	STD ERROR	.375	STD DEV	1.404
VARIANCE	1.972	KURTOSIS	-.391	SKEWNESS	.151
RANGE	5.040	MINIMUM	11.940	MAXIMUM	16.980
SUM	201.750				

VALID OBSERVATIONS -	14	MISSING OBSERVATIONS -	0
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VARIABLE FEO

MEAN	8.993	STD ERROR	.267	STD DEV	.756
VARIANCE	.571	KURTOSIS	1.234	SKEWNESS	-.559
RANGE	2.560	MINIMUM	7.590	MAXIMUM	10.150
SUM	71.940				

VALID OBSERVATIONS -	8	MISSING OBSERVATIONS -	6
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VARIABLE MNO

MEAN	.146	STD ERROR	.013	STD DEV	.049
VARIANCE	.002	KURTOSIS	2.499	SKEWNESS	-1.411
RANGE	.190	MINIMUM	.020	MAXIMUM	.210
SUM	2.050				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.759	STD ERROR	.386	STD DEV	1.444
VARIANCE	2.085	KURTOSIS	-.978	SKEWNESS	.675
RANGE	4.210	MINIMUM	5.020	MAXIMUM	9.250
SUM	94.620				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	7.181	STD ERROR	.757	STD DEV	2.833
VARIANCE	8.028	KURTOSIS	.932	SKEWNESS	-1.153
RANGE	9.580	MINIMUM	1.110	MAXIMUM	10.690
SUM	100.540				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.731	STD ERROR	.249	STD DEV	.932
VARIANCE	.869	KURTOSIS	.236	SKEWNESS	-1.016
RANGE	3.080	MINIMUM	1.690	MAXIMUM	4.770
SUM	52.240				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.519	STD ERROR	.092	STD DEV	.344
VARIANCE	.118	KURTOSIS	-1.142	SKEWNESS	.022
RANGE	1.050	MINIMUM	0.	MAXIMUM	1.050
SUM	7.270				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.430	STD ERROR	.026	STD DEV	.096
VARIANCE	.009	KURTOSIS	-.218	SKEWNESS	.454
RANGE	.320	MINIMUM	.290	MAXIMUM	.610
SUM	6.020				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.185	STD ERROR	.138	STD DEV	.337
VARIANCE	.114	KURTOSIS	5.810	SKEWNESS	2.401
RANGE	.850	MINIMUM	.020	MAXIMUM	.870
SUM	1.110				

VALID OBSERVATIONS - 6 MISSING OBSERVATIONS - 8

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 14 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 231 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
55 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 13)
TASK_NAME ROCK CODE 13 - SD
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 13 - 5D

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	54.305	STD ERROR	2.545	STD DEV	5.089
VARIANCE	25.903	KURTOSIS	2.465	SKEWNESS	1.507
RANGE	11.580	MINIMUM	50.030	MAXIMUM	61.610
SUM	217.220				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE TI02

MEAN	.588	STD ERROR	.303	STD DEV	.607
VARIANCE	.368	KURTOSIS	2.694	SKEWNESS	1.668
RANGE	1.310	MINIMUM	.160	MAXIMUM	1.470
SUM	2.350				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE AL203

MEAN	16.853	STD ERROR	.773	STD DEV	1.547
VARIANCE	2.392	KURTOSIS	2.338	SKEWNESS	1.210
RANGE	3.670	MINIMUM	15.350	MAXIMUM	19.020
SUM	67.410				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE FE203

MEAN	10.955	STD ERROR	1.241	STD DEV	2.482
VARIANCE	6.160	KURTOSIS	.414	SKEWNESS	-1.084
RANGE	5.577	MINIMUM	7.576	MAXIMUM	13.152
SUM	43.822				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE FEO

MEAN	7.750	STD ERROR	.939	STD DEV	1.879
VARIANCE	3.529	KURTOSIS	-1.556	SKEWNESS	-.402
RANGE	4.280	MINIMUM	5.440	MAXIMUM	9.720
SUM	31.000				

VALID OBSERVATIONS -	4	MISSING OBSERVATIONS -	0
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VARIABLE MNO

MEAN	.148	STD ERROR	.030	STD DEV	.061
VARIANCE	.004	KURTOSIS	-1.462	SKEWNESS	.191
RANGE	.140	MINIMUM	.080	MAXIMUM	.220
SUM	.590				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	6.028	STD ERROR	1.172	STD DEV	2.344
VARIANCE	5.495	KURTOSIS	-1.216	SKEWNESS	-.867
RANGE	4.940	MINIMUM	2.960	MAXIMUM	7.900
SUM	24.110				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	7.548	STD ERROR	1.468	STD DEV	2.937
VARIANCE	8.624	KURTOSIS	3.269	SKEWNESS	-1.799
RANGE	6.340	MINIMUM	3.220	MAXIMUM	9.560
SUM	30.190				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.773	STD ERROR	.433	STD DEV	.866
VARIANCE	.749	KURTOSIS	1.391	SKEWNESS	-.324
RANGE	2.110	MINIMUM	.670	MAXIMUM	2.780
SUM	7.090				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

ROCK CODE 13 - 50

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	2.340	STD ERROR	.742	STD DEV	1.483
VARIANCE	2.201	KURTOSIS	1.920	SKEWNESS	-.864
RANGE	3.580	MINIMUM	.330	MAXIMUM	3.910
SUM	9.360				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.325	STD ERROR	.061	STD DEV	.122
VARIANCE	.015	KURTOSIS	.399	SKEWNESS	-.983
RANGE	.280	MINIMUM	.160	MAXIMUM	.440
SUM	1.300				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 3) AND NEWSEQ NE 2052 AND 2049 AND 1024)
TASK NAME ROCK CODE 3 - 3G
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 3 - 3G

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	58.946	STD ERROR	.889	STD DEV	3.773
VARIANCE	14.237	KURTOSIS	2.046	SKEWNESS	-1.300
RANGE	14.580	MINIMUM	48.590	MAXIMUM	63.170
SUM	1061.030				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.810	STD ERROR	.069	STD DEV	.294
VARIANCE	.087	KURTOSIS	4.496	SKEWNESS	1.595
RANGE	1.340	MINIMUM	.370	MAXIMUM	1.710
SUM	14.580				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	21.278	STD ERROR	.533	STD DEV	2.261
VARIANCE	5.112	KURTOSIS	-.436	SKEWNESS	.955
RANGE	7.080	MINIMUM	18.860	MAXIMUM	25.940
SUM	383.010				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.406	STD ERROR	.480	STD DEV	2.038
VARIANCE	4.153	KURTOSIS	.612	SKEWNESS	.917
RANGE	7.520	MINIMUM	6.330	MAXIMUM	13.850
SUM	169.310				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.083	STD ERROR	.009	STD DEV	.037
VARIANCE	.001	KURTOSIS	-.956	SKEWNESS	.644
RANGE	.120	MINIMUM	.030	MAXIMUM	.150
SUM	1.500				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.371	STD ERROR	.136	STD DEV	.578
VARIANCE	.335	KURTOSIS	4.321	SKEWNESS	1.766
RANGE	2.580	MINIMUM	1.560	MAXIMUM	4.140
SUM	42.670				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	1.218	STD ERROR	.360	STD DEV	1.528
VARIANCE	2.334	KURTOSIS	2.469	SKEWNESS	1.874
RANGE	4.750	MINIMUM	.230	MAXIMUM	4.980
SUM	21.920				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.206	STD ERROR	.113	STD DEV	.481
VARIANCE	.232	KURTOSIS	-.711	SKEWNESS	.165
RANGE	1.700	MINIMUM	.370	MAXIMUM	2.070
SUM	21.700				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.522	STD ERROR	.149	STD DEV	.633
VARIANCE	.401	KURTOSIS	.122	SKEWNESS	-.191
RANGE	2.460	MINIMUM	3.090	MAXIMUM	5.550
SUM	81.390				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.162	STD ERROR	.010	STD DEV	.044
VARIANCE	.002	KURTOSIS	.707	SKEWNESS	.844
RANGE	.170	MINIMUM	.100	MAXIMUM	.270
SUM	2.910				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.041	STD ERROR	.012	STD DEV	.045
VARIANCE	.002	KURTOSIS	2.443	SKEWNESS	1.812
RANGE	.140	MINIMUM	.010	MAXIMUM	.150
SUM	.530				

VALID OBSERVATIONS - 13 MISSING OBSERVATIONS - 5

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 25)
TASK NAME ROCK CODE 25 - ARGBS
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 25 - ARGBS

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE S102

MEAN	48.376	STD ERROR	.538	STD DEV	1.202
VARIANCE	1.445	KURTOSIS	-1.497	SKEWNESS	-.732
RANGE	2.850	MINIMUM	46.690	MAXIMUM	49.540
SUM	241.880				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.540	STD ERROR	.196	STD DEV	.439
VARIANCE	.193	KURTOSIS	1.655	SKEWNESS	1.131
RANGE	1.150	MINIMUM	1.090	MAXIMUM	2.240
SUM	7.700				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.790	STD ERROR	.461	STD DEV	1.030
VARIANCE	1.061	KURTOSIS	-.320	SKEWNESS	-.876
RANGE	2.580	MINIMUM	14.260	MAXIMUM	16.840
SUM	78.950				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.462	STD ERROR	.836	STD DEV	1.870
VARIANCE	3.498	KURTOSIS	-1.578	SKEWNESS	.896
RANGE	4.147	MINIMUM	10.984	MAXIMUM	15.131
SUM	62.312				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.997	STD ERROR	.493	STD DEV	.986
VARIANCE	.971	KURTOSIS	1.198	SKEWNESS	-.164
RANGE	2.400	MINIMUM	6.770	MAXIMUM	9.170
SUM	31.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 1

VARIABLE MNO

MEAN	.200	STD ERROR	.033	STD DEV	.074
VARIANCE	.005	KURTOSIS	4.404	SKEWNESS	2.063
RANGE	.180	MINIMUM	.150	MAXIMUM	.330
SUM	1.000				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	8.188	STD ERROR	.815	STD DEV	1.822
VARIANCE	3.320	KURTOSIS	.181	SKEWNESS	.530
RANGE	4.830	MINIMUM	5.990	MAXIMUM	10.820
SUM	40.940				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.574	STD ERROR	.767	STD DEV	1.715
VARIANCE	2.943	KURTOSIS	-1.897	SKEWNESS	-.383
RANGE	4.070	MINIMUM	8.320	MAXIMUM	12.390
SUM	52.870				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	2.896	STD ERROR	.294	STD DEV	.656
VARIANCE	.431	KURTOSIS	-1.575	SKEWNESS	-.660
RANGE	1.580	MINIMUM	1.990	MAXIMUM	3.570
SUM	14.480				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

ROCK CODE 25 - ARGBS

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.524	STD ERROR	.132	STD DEV	.296
VARIANCE	.088	KURTOSIS	-3.058	SKEWNESS	.576
RANGE	.620	MINIMUM	.260	MAXIMUM	.880
SUM	2.620				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.160	STD ERROR	.021	STD DEV	.046
VARIANCE	.002	KURTOSIS	-1.894	SKEWNESS	-.226
RANGE	.110	MINIMUM	.100	MAXIMUM	.210
SUM	.800				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE. VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 27) AND NEWSEQ NE 2106 AND 2107)
TASK_NAME ROCK CODE 27 - ARGBK
CONDESCRIPTIVE SI02 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

 VARIABLE MNO

MEAN	.147	STD ERROR	.019	STD DEV	.032
VARIANCE	.001	KURTOSIS	0.	SKEWNESS	-1.545
RANGE	.060	MINIMUM	.110	MAXIMUM	.170
SUM	.440				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	9.760	STD ERROR	2.534	STD DEV	4.389
VARIANCE	19.263	KURTOSIS	0.	SKEWNESS	1.352
RANGE	8.390	MINIMUM	6.310	MAXIMUM	14.700
SUM	29.280				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.520	STD ERROR	1.296	STD DEV	2.244
VARIANCE	5.038	KURTOSIS	0.	SKEWNESS	-1.544
RANGE	4.190	MINIMUM	8.960	MAXIMUM	13.150
SUM	34.560				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	2.707	STD ERROR	.921	STD DEV	1.596
VARIANCE	2.546	KURTOSIS	0.	SKEWNESS	-.428
RANGE	3.180	MINIMUM	1.040	MAXIMUM	4.220
SUM	8.120				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

ROCK CODE 27 - ARGBK

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	48.170	STD ERROR	1.559	STD DEV	2.700
VARIANCE	7.289	KURTOSIS	0.	SKEWNESS	-1.311
RANGE	5.180	MINIMUM	45.140	MAXIMUM	50.320
SUM	144.510				

VALID OBSERVATIONS -	3	MISSING OBSERVATIONS -	0
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VARIABLE TI02

MEAN	1.573	STD ERROR	.237	STD DEV	.411
VARIANCE	.169	KURTOSIS	0.	SKEWNESS	-1.090
RANGE	.800	MINIMUM	1.120	MAXIMUM	1.920
SUM	4.720				

VALID OBSERVATIONS -	3	MISSING OBSERVATIONS -	0
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VARIABLE AL203

MEAN	13.413	STD ERROR	.865	STD DEV	1.498
VARIANCE	2.244	KURTOSIS	0.	SKEWNESS	-.776
RANGE	2.960	MINIMUM	11.800	MAXIMUM	14.760
SUM	40.240				

VALID OBSERVATIONS -	3	MISSING OBSERVATIONS -	0
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VARIABLE FE203

MEAN	12.588	STD ERROR	.832	STD DEV	1.441
VARIANCE	2.076	KURTOSIS	0.	SKEWNESS	1.718
RANGE	2.554	MINIMUM	11.696	MAXIMUM	14.250
SUM	37.764				

VALID OBSERVATIONS -	3	MISSING OBSERVATIONS -	0
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VARIABLE FEO

MEAN	7.965	STD ERROR	.095	STD DEV	.134
VARIANCE	.018	KURTOSIS	0.	SKEWNESS	0.
RANGE	.190	MINIMUM	7.870	MAXIMUM	8.060
SUM	15.930				

VALID OBSERVATIONS -	2	MISSING OBSERVATIONS -	1
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VARIABLE K20

MEAN	.513	STD ERROR	.255	STD DEV	.442
VARIANCE	.196	KURTOSIS	0.	SKEWNESS	.535
RANGE	.880	MINIMUM	.100	MAXIMUM	.980
SUM	1.540				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.200	STD ERROR	.050	STD DEV	.087
VARIANCE	.008	KURTOSIS	0.	SKEWNESS	1.630
RANGE	.160	MINIMUM	.140	MAXIMUM	.300
SUM	.600				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED 48 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
11 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 29)
TASK NAME ROCK CODE 29 - ARG8D
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 29 - ARGBD

FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	48.565	STD ERROR	1.355	STD DEV	1.916
VARIANCE	3.672	KURTOSIS	0.	SKEWNESS	0.
RANGE	2.710	MINIMUM	47.210	MAXIMUM	49.920
SUM	97.130				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	1.505	STD ERROR	.465	STD DEV	.658
VARIANCE	.432	KURTOSIS	0.	SKEWNESS	0.
RANGE	.930	MINIMUM	1.040	MAXIMUM	1.970
SUM	3.010				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE AL2O3

MEAN	15.740	STD ERROR	.900	STD DEV	1.273
VARIANCE	1.620	KURTOSIS	0.	SKEWNESS	0.
RANGE	1.800	MINIMUM	14.840	MAXIMUM	16.640
SUM	31.480				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

MEAN	11.886	STD ERROR	2.334	STD DEV	3.301
VARIANCE	10.896	KURTOSIS	0.	SKEWNESS	0.
RANGE	4.668	MINIMUM	9.552	MAXIMUM	14.220
SUM	23.772				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	8.360	STD ERROR	.980	STD DEV	1.386
VARIANCE	1.921	KURTOSIS	0.	SKEWNESS	0.
RANGE	1.960	MINIMUM	7.380	MAXIMUM	9.340
SUM	16.720				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

 VARIABLE MNO

MEAN	.190	STD ERROR	.030	STD DEV	.042
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	0.
RANGE	.060	MINIMUM	.160	MAXIMUM	.220
SUM	.380				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.685	STD ERROR	.215	STD DEV	.304
VARIANCE	.092	KURTOSIS	0.	SKEWNESS	0.
RANGE	.430	MINIMUM	7.470	MAXIMUM	7.900
SUM	15.370				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.115	STD ERROR	.225	STD DEV	.318
VARIANCE	.101	KURTOSIS	0.	SKEWNESS	0.
RANGE	.450	MINIMUM	10.890	MAXIMUM	11.340
SUM	22.230				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	3.480	STD ERROR	.470	STD DEV	.665
VARIANCE	.442	KURTOSIS	0.	SKEWNESS	0.
RANGE	.940	MINIMUM	3.010	MAXIMUM	3.950
SUM	6.960				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.545	STD ERROR	.445	STD DEV	.629
VARIANCE	.396	KURTOSIS	0.	SKEWNESS	0.
RANGE	.890	MINIMUM	.100	MAXIMUM	.990
SUM	1.090				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.225	STD ERROR	.005	STD DEV	.007
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	0.
RANGE	.010	MINIMUM	.220	MAXIMUM	.230
SUM	.450				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

SAVE FILE GE03 NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

FILE GE03 HAS BEEN SAVED WITH 37 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	S102	T102	AL203	FE203	FE0	MNO
MGO	CA0	NA20	K20	P205	S	LOI	BA	CU	PB
ZN	CD	AG	CR	V	CO	NI	MO	RB	SR
ZR	Y	ROCKCODE	GROUP	SEQ	NEWVAR	NEWSEQ			

THE SUBFILES ARE..

NAME	NO OF CASES
GE03	374

FINISH

NORMAL END OF JOB.
63 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

DECEMBER 13, 1979

GEOCHEMICAL DATA - WHOLE ROCK

POS001 GEOCHM

MH

LIB\$

AT: 12/13/79 15:04:54 JOB: 21315

UU 40-01-002 6043244320 2

COPY: 1 *

SPSS: CONDSCRIPTIVE FOR EACH ELEMENT

STATISTICS ALL

FOR FILE - NORMALIZED WITHOUT L.O.I.

(LOI does not include S when that is
analyzed separately)

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSS2
 VARIABLE LIST SPEC GROUP SEQ ROCKCODE SIO2 TIO2 AL203 FE203 FEO MNO MGO CAO
 NA20 K20 P205 S LOI BA CU PB ZN CD AG CR V CO NI MO RB SR ZR Y
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,9X,F1.0,F3.0,8X,F3.0,28F8.2)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A	1	1-
GROUP	F	1	11-
SEQ	F	3	12-
ROCKCODE	F	3	23-
SIO2	F	8	26-
TIO2	F	8	34-
AL203	F	8	42-
FE203	F	8	50-
FEO	F	8	58-
MNO	F	8	66-
MGO	F	8	74-
CAO	F	8	82-
NA20	F	8	90-
K20	F	8	98-
P205	F	8	106-
S	F	8	114-
LOI	F	8	122-
BA	F	8	130-
CU	F	8	138-
PB	F	8	146-
ZN	F	8	154-
CD	F	8	162-
AG	F	8	170-
CR	F	8	178-
V	F	8	186-
CO	F	8	194-
NI	F	8	202-
MO	F	8	210-

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
RB	F 8. 2	1	218- 225
SR	F 8. 2	1	226- 233
ZR	F 8. 2	1	234- 241
Y	F 8. 2	1	242- 249

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 1 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 249 'COLUMNS' ARE USED ON A RECORD.

RECODE SPEC (' '=0)
MISSING VALUES SIO2 TO Y (-.01)
VAR LABELS SPEC SPECIMEN ID *FARD /*
GROUP DATA GROUP
SEQ SAMPLE SEQUENCE
VALUE LABELS SPEC ('F') FIELD SAMPLE ('C') CONTROL SAMPLE ('O') FIELD SAMPLE /
GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/
ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG
(9)SIDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E
(16)3C-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B
(23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SFV (29)ARGBD
(30)FLSZG (31)OE8 (32)1CD (33)OE7 (34)1C6 (35)1D4 (36)OE6
(37)0DB (38)1C5 (39)OE (40)1D (41)STD SY-3 (42)2A (43)1D+16
PRINT FORMATS SPEC (A) / SIO2 TO Y (2)
READ INPUT DATA

AFTER READING 394 CASES FROM SUBFILE GCHSS2 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
0 IF/COMPUTE OPERATIONS

TASK NAME NORMALIZED WITHOUT L.O.I.
FREQUENCIES GENERAL=SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	20	5.1	5.1	5.1
FIELD SAMPLE	F	208	52.8	52.8	57.9
FIELD SAMPLE	0	166	42.1	42.1	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	56	14.2	14.2	14.2
1979 WHOLE ROCK	2.	120	30.5	30.5	44.7
SECTION 118	3.	218	55.3	55.3	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1E	1.	8	2.0	2.0	2.0
3C	2.	7	1.8	1.8	3.8
3G	3.	22	5.6	5.6	9.4
5C	4.	26	6.6	6.6	16.0
5F	5.	2	.5	.5	16.5
MCV	6.	35	8.9	8.9	25.4
5CU	7.	1	.3	.3	25.6
5CG	8.	1	.3	.3	25.9
STDMRG-1	9.	11	2.8	2.8	28.7
UNK	10.	1	.3	.3	28.9
KSMB	11.	6	1.5	1.5	30.5
KSE	12.	2	.5	.5	31.0
5D	13.	5	1.3	1.3	32.2
1C	14.	12	3.0	3.0	35.3
3E	15.	1	.3	.3	35.5
3G-D	16.	1	.3	.3	35.8
STD SY-2	17.	6	1.5	1.5	37.3
3D	18.	11	2.8	2.8	40.1
3DW	19.	3	.8	.8	40.9
3DV	20.	1	.3	.3	41.1
5BD	21.	1	.3	.3	41.4
5B	22.	10	2.5	2.5	43.9

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

SB3	23.	1	.3	.3	44.2
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.4
ARGBK	27.	5	1.3	1.3	47.7
SFV	28.	2	.5	.5	48.2
ARGBD	29.	2	.5	.5	48.7
FLSZG	30.	3	.8	.8	49.5
0E8	31.	11	2.8	2.8	52.3
1CD	32.	47	11.9	11.9	64.2
0E7	33.	2	.5	.5	64.7
1C6	34.	22	5.6	5.6	70.3
1D4	35.	35	8.9	8.9	79.2
0E6	36.	1	.3	.3	79.4
0D8	37.	1	.3	.3	79.7
1C5	38.	3	.8	.8	80.5
0E	39.	6	1.5	1.5	82.0
1D	40.	66	16.8	16.8	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D+16	43.	1	.3	.3	100.0
TOTAL		394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

CONDESCRIPTIVE SIO2 TO S BA TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE SI02

MEAN	56.361	STD ERROR	.369	STD DEV	7.325
VARIANCE	53.657	KURTOSIS	.897	SKEWNESS	-.030
RANGE	57.180	MINIMUM	31.380	MAXIMUM	88.560
SUM	22206.400				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.024	STD ERROR	.047	STD DEV	.938
VARIANCE	.880	KURTOSIS	3.725	SKEWNESS	2.008
RANGE	4.940	MINIMUM	0.	MAXIMUM	4.940
SUM	403.380				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	18.125	STD ERROR	.210	STD DEV	4.173
VARIANCE	17.410	KURTOSIS	.440	SKEWNESS	-.472
RANGE	29.910	MINIMUM	.860	MAXIMUM	30.770
SUM	7141.170				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	8.712	STD ERROR	.178	STD DEV	3.543
VARIANCE	12.550	KURTOSIS	.368	SKEWNESS	.037
RANGE	19.430	MINIMUM	.170	MAXIMUM	19.600
SUM	3432.720				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.896	STD ERROR	.289	STD DEV	2.431
VARIANCE	5.911	KURTOSIS	1.865	SKEWNESS	-.138
RANGE	14.900	MINIMUM	1.460	MAXIMUM	16.360
SUM	560.620				

VALID OBSERVATIONS - 71 MISSING OBSERVATIONS - 323

 VARIABLE MNO

MEAN	.118	STD ERROR	.003	STD DEV	.068
VARIANCE	.005	KURTOSIS	9.501	SKEWNESS	2.083
RANGE	.620	MINIMUM	.010	MAXIMUM	.630
SUM	46.390				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE MGO

MEAN	4.238	STD ERROR	.193	STD DEV	3.828
VARIANCE	14.650	KURTOSIS	12.117	SKEWNESS	2.783
RANGE	32.940	MINIMUM	.310	MAXIMUM	33.250
SUM	1669.780				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE CAO

MEAN	4.741	STD ERROR	.278	STD DEV	5.521
VARIANCE	30.479	KURTOSIS	10.277	SKEWNESS	2.115
RANGE	49.170	MINIMUM	.120	MAXIMUM	49.290
SUM	1867.870				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

 VARIABLE NA2O

MEAN	1.579	STD ERROR	.068	STD DEV	1.356
VARIANCE	1.838	KURTOSIS	.134	SKEWNESS	1.096
RANGE	5.600	MINIMUM	.110	MAXIMUM	5.710
SUM	622.050				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE K20

MEAN	3.006	STD ERROR	.088	STD DEV	1.750
VARIANCE	3.064	KURTOSIS	-1.126	SKEWNESS	-.469
RANGE	6.720	MINIMUM	0.	MAXIMUM	6.720
SUM	1184.440				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.214	STD ERROR	.007	STD DEV	.138
VARIANCE	.019	KURTOSIS	3.383	SKEWNESS	1.827
RANGE	.820	MINIMUM	.040	MAXIMUM	.860
SUM	84.240				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.659	STD ERROR	.088	STD DEV	1.462
VARIANCE	2.137	KURTOSIS	32.370	SKEWNESS	5.196
RANGE	13.050	MINIMUM	.010	MAXIMUM	13.060
SUM	180.680				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE BA

MEAN	1605.208	STD ERROR	363.597	STD DEV	6018.606
VARIANCE	*****	KURTOSIS	185.038	SKEWNESS	12.961
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	439827.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE CU

MEAN	237.580	STD ERROR	111.018	STD DEV	1837.682
VARIANCE	*****	KURTOSIS	254.677	SKEWNESS	15.724
RANGE	29996.000	MINIMUM	4.000	MAXIMUM	30000.000
SUM	65097.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE PB

MEAN	293.931	STD ERROR	121.036	STD DEV	2003.510
VARIANCE	*****	KURTOSIS	111.897	SKEWNESS	10.024
RANGE	25998.000	MINIMUM	2.000	MAXIMUM	26000.000
SUM	80537.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE ZN

MEAN	411.839	STD ERROR	140.421	STD DEV	2324.389
VARIANCE	*****	KURTOSIS	120.557	SKEWNESS	10.287
RANGE	30980.000	MINIMUM	20.000	MAXIMUM	31000.000
SUM	112844.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CD

MEAN	1.217	STD ERROR	.749	STD DEV	12.392
VARIANCE	153.553	KURTOSIS	245.191	SKEWNESS	15.339
RANGE	200.000	MINIMUM	0.	MAXIMUM	200.000
SUM	333.400				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE AG

MEAN	.692	STD ERROR	.172	STD DEV	2.845
VARIANCE	8.096	KURTOSIS	71.716	SKEWNESS	7.964
RANGE	32.000	MINIMUM	0.	MAXIMUM	32.000
SUM	189.600				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CR

MEAN	134.077	STD ERROR	8.796	STD DEV	145.604
VARIANCE	21200.401	KURTOSIS	23.751	SKEWNESS	4.395
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	36737.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE V

MEAN	130.438	STD ERROR	5.129	STD DEV	84.898
VARIANCE	7207.712	KURTOSIS	21.419	SKEWNESS	4.015
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	35740.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CO

MEAN	35.978	STD ERROR	.854	STD DEV	14.132
VARIANCE	199.721	KURTOSIS	6.356	SKEWNESS	2.077
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9858.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE NI

MEAN	56.675	STD ERROR	4.818	STD DEV	79.752
VARIANCE	6360.411	KURTOSIS	47.527	SKEWNESS	6.134
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15529.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE MO

MEAN	3.828	STD ERROR	.080	STD DEV	1.327
VARIANCE	1.762	KURTOSIS	28.852	SKEWNESS	3.992
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1049.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE RB

MEAN	132.168	STD ERROR	3.630	STD DEV	60.086
VARIANCE	3610.287	KURTOSIS	.168	SKEWNESS	-1.013
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	36214.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE SR

MEAN	132.328	STD ERROR	13.018	STD DEV	215.494
VARIANCE	46437.862	KURTOSIS	115.840	SKEWNESS	9.186
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	36258.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

NORMALIZED WITHOUT L.O.I.
 FILE GCHSS2 (CREATION DATE = 12/13/79)

VARIABLE ZR

MEAN	153.036	STD ERROR	7.306	STD DEV	77.320
VARIANCE	5978.323	KURTOSIS	2.499	SKEWNESS	1.293
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	17140.000				

VALID OBSERVATIONS = 112 MISSING OBSERVATIONS = 282

VARIABLE Y

MEAN	19.027	STD ERROR	6.680	STD DEV	70.696
VARIANCE	4997.990	KURTOSIS	93.246	SKEWNESS	9.331
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2131.000				

VALID OBSERVATIONS = 112 MISSING OBSERVATIONS = 282

SAVE FILE

FILE GCHSS2 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	GROUP	SEQ	ROCKCODE	S102	T102	AL203
FE203	FEO	MNO	MGO	CAO	NA20	K20	P205	S	LOI
BA	CU	PB	ZN	CD	AG	CR	V	CO	NI
MO	RB	SR	ZR	Y					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS2	394

FINISH

NORMAL END OF JOB.
28 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21,1979

DECEMBER 27, 1979

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSS3 NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED
 VARIABLE LIST SPEC SI02 TI02 AL203 FE203 FEO MNO MGO CAO NA20 K20 P205 S LOI
 BA CU PB ZN CD AG CR V CO NI MO RB SR ZR Y ROCKCODE GROUP SEQ
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,19X,7F8.2/12X,8F8.2/12X,8F8.2/12X,5F8.2,22X,F2.0,F1.0,
 F3.0)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A	1	1
SI02	F 8.	1	21-28
TI02	F 8.	1	29-36
AL203	F 8.	1	37-44
FE203	F 8.	1	45-52
FEO	F 8.	1	53-60
MNO	F 8.	1	61-68
MGO	F 8.	1	69-76
CAO	F 8.	1	13-20
NA20	F 8.	1	21-28
K20	F 8.	1	29-36
P205	F 8.	1	37-44
S	F 8.	1	45-52
LOI	F 8.	1	53-60
BA	F 8.	1	61-68
CU	F 8.	1	69-76
PB	F 8.	1	13-20
ZN	F 8.	1	21-28
CD	F 8.	1	29-36
AG	F 8.	1	37-44
CR	F 8.	1	45-52
V	F 8.	1	53-60
CO	F 8.	1	61-68
NI	F 8.	1	69-76
MO	F 8.	1	13-20
RB	F 8.	1	21-28
SR	F 8.	1	29-36

SIMPLE STATISTICS for all
 samples - variables SiO₂ to Y

FILE 3

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE FORMAT RECORD COLUMNS

ZR	F 8. 2	4	37- 44
Y	F 8. 2	4	45- 52
ROCKCODE	F 2. 0	4	75- 76
GROUP	F 1. 0	4	77- 77
SEQ	F 3. 0	4	78- 80

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 4 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 80 'COLUMNS' ARE USED ON A RECORD.

RECODE SPEC (' '=0)
MISSING VALUES SIO2 TO Y (-.01)
VAR LABELS SPEC SPECIMEN ID
 GROUP DATA GROUP /
 SEQ SAMPLE SEQUENCE
VALUE LABELS SPEC ('F')FARO SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/
 GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 11B/
 ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG
 (9)STDMRG-1 (10)UNK (11)KSMB (12)K9E (13)5D (14)1C (15)3E
 (16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B
 (23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SEV (29)ARGBD
 (30)FLSZG (31)0E8 (32)1CD (33)0E7 (34)1C6 (35)1D4 (36)0E6
 (37)0D8 (38)1C5 (39)0E (40)1D (41)STD SY-3 (42)2A (43)1D+1F
PRINT FORMATS SPEC (A) / SIO2 TO Y (2)
IF (FE0 NE -.01) FE203=FE203+(FE0*1.11134)

READ INPUT DATA

AFTER READING 374 CASES FROM SUBFILE GCHSS3 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 50 WORDS
2 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
7 IF/COMPUTE OPERATIONS

FREQUENCIES GENERAL= SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	19	5.1	5.1	5.1
FARO SAMPLE	F	197	52.7	52.7	57.8
FIELD SAMPLE	O	158	42.2	42.2	100.0
	TOTAL	374	100.0	100.0	

VALID CASES 374 MISSING CASES 0

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	55	14.7	14.7	14.7
1979 WHOLE ROCK	2.	112	29.9	29.9	44.7
SECTION 118	3.	207	55.3	55.3	100.0
	TOTAL	374	100.0	100.0	

VALID CASES 374 MISSING CASES 0

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1F	1.	8	2.1	2.1	2.1
3C	2.	7	1.9	1.9	4.0
3G	3.	21	5.6	5.6	9.6
5C	4.	26	7.0	7.0	16.6
5F	5.	2	.5	.5	17.1
MCV	6.	29	7.8	7.8	24.9
SCU	7.	1	.3	.3	25.1
SCG	8.	1	.3	.3	25.4
STDMRG-1	9.	10	2.7	2.7	28.1
UNK	10.	1	.3	.3	28.3
KSMB	11.	6	1.6	1.6	29.9
KSE	12.	2	.5	.5	30.5
SD	13.	4	1.1	1.1	31.6
1C	14.	12	3.2	3.2	34.8
3E	15.	1	.3	.3	35.0
3G-D	16.	1	.3	.3	35.3
STD SY-2	17.	6	1.6	1.6	36.9
3D	18.	11	2.9	2.9	39.8
3DW	19.	3	.8	.8	40.6
3DV	20.	1	.3	.3	40.9
5BD	21.	1	.3	.3	41.2
5B	22.	10	2.7	2.7	43.9

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

5B3	23.	1	.3	.3	44.1
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.5
ARGBK	27.	5	1.3	1.3	47.9
SFV	28.	2	.5	.5	48.4
ARGBD	29.	2	.5	.5	48.9
FLSZG	30.	3	.8	.8	49.7
0E8	31.	11	2.9	2.9	52.7
1CD	32.	47	12.6	12.6	65.2
0E7	33.	2	.5	.5	65.8
1C6	34.	18	4.8	4.8	70.6
1D4	35.	30	8.0	8.0	78.6
0E6	36.	1	.3	.3	78.9
0DB	37.	1	.3	.3	79.1
1C5	38.	2	.5	.5	79.7
0E	39.	6	1.6	1.6	81.3
1D	40.	65	17.4	17.4	98.7
STD. SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D+1F	43.	1	.3	.3	100.0
TOTAL		374	100.0	100.0	

VALID CASES

374

MISSING CASES

0

CONDESCRIPTIVE S102 TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE S102

MEAN	56.738	STD ERROR	.382	STD DEV	7.385
VARIANCE	54.538	KURTOSIS	.881	SKEWNESS	-.061
RANGE	57.180	MINIMUM	31.380	MAXIMUM	88.560
SUM	21219.900				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.012	STD ERROR	.048	STD DEV	.921
VARIANCE	.849	KURTOSIS	4.169	SKEWNESS	2.091
RANGE	4.940	MINIMUM	0.	MAXIMUM	4.940
SUM	378.630				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	18.272	STD ERROR	.217	STD DEV	4.198
VARIANCE	17.621	KURTOSIS	.512	SKEWNESS	-.496
RANGE	29.920	MINIMUM	.860	MAXIMUM	30.780
SUM	6833.910				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	10.223	STD ERROR	.162	STD DEV	3.132
VARIANCE	9.810	KURTOSIS	.843	SKEWNESS	.642
RANGE	21.012	MINIMUM	.880	MAXIMUM	21.892
SUM	3823.316				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.822	STD ERROR	.320	STD DEV	2.536
VARIANCE	6.431	KURTOSIS	1.633	SKEWNESS	-.064
RANGE	14.900	MINIMUM	1.460	MAXIMUM	16.360
SUM	492.780				

VALID OBSERVATIONS - 63 MISSING OBSERVATIONS - 311

VARIABLE MNO

MEAN	.119	STD ERROR	.004	STD DEV	.069
VARIANCE	.005	KURTOSIS	9.883	SKEWNESS	2.167
RANGE	.620	MINIMUM	.010	MAXIMUM	.630
SUM	44.360				

VALID OBSERVATIONS = 374 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	4.245	STD ERROR	.199	STD DEV	3.850
VARIANCE	14.826	KURTOSIS	12.363	SKEWNESS	2.815
RANGE	32.940	MINIMUM	.310	MAXIMUM	33.250
SUM	1587.480				

VALID OBSERVATIONS = 374 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	4.679	STD ERROR	.282	STD DEV	5.447
VARIANCE	29.673	KURTOSIS	11.641	SKEWNESS	2.252
RANGE	49.160	MINIMUM	.130	MAXIMUM	49.290
SUM	1750.020				

VALID OBSERVATIONS = 374 MISSING OBSERVATIONS = 0

VARIABLE NA2O

MEAN	1.593	STD ERROR	.070	STD DEV	1.363
VARIANCE	1.857	KURTOSIS	.136	SKEWNESS	1.102
RANGE	5.600	MINIMUM	.110	MAXIMUM	5.710
SUM	595.820				

VALID OBSERVATIONS = 374 MISSING OBSERVATIONS = 0

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	3.014	STD ERROR	.091	STD DEV	1.758
VARIANCE	3.091	KURTOSIS	-1.119	SKEWNESS	-.477
RANGE	6.830	MINIMUM	0.	MAXIMUM	6.830
SUM	1127.240				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.212	STD ERROR	.007	STD DEV	.136
VARIANCE	.018	KURTOSIS	3.629	SKEWNESS	1.877
RANGE	.820	MINIMUM	.040	MAXIMUM	.860
SUM	79.260				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.522	STD ERROR	.062	STD DEV	.996
VARIANCE	.993	KURTOSIS	28.014	SKEWNESS	4.764
RANGE	8.200	MINIMUM	.010	MAXIMUM	8.210
SUM	136.660				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE BA

MEAN	1408.042	STD ERROR	350.775	STD DEV	5677.788
VARIANCE	*****	KURTOSIS	242.352	SKEWNESS	15.332
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	368907.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CU

MEAN	110.176	STD ERROR	15.718	STD DEV	254.417
VARIANCE	64727.792	KURTOSIS	79.958	SKEWNESS	7.891
RANGE	3096.000	MINIMUM	4.000	MAXIMUM	3100.000
SUM	28866.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE PB

MEAN	116.298	STD ERROR	52.068	STD DEV	842.801
VARIANCE	710313.520	KURTOSIS	232.055	SKEWNESS	14.902
RANGE	13298.000	MINIMUM	2.000	MAXIMUM	13300.000
SUM	30470.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZN

MEAN	225.412	STD ERROR	60.056	STD DEV	972.088
VARIANCE	944954.220	KURTOSIS	94.064	SKEWNESS	9.455
RANGE	11480.000	MINIMUM	20.000	MAXIMUM	11500.000
SUM	59058.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE CD

MEAN	.274	STD ERROR	.082	STD DEV	1.320
VARIANCE	1.743	KURTOSIS	58.365	SKEWNESS	7.206
RANGE	13.500	MINIMUM	0.	MAXIMUM	13.500
SUM	71.800				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE AG

MEAN	.365	STD ERROR	.054	STD DEV	.877
VARIANCE	.770	KURTOSIS	20.312	SKEWNESS	4.381
RANGE	6.000	MINIMUM	0.	MAXIMUM	6.000
SUM	95.600				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CR

MEAN	136.088	STD ERROR	9.174	STD DEV	148.489
VARIANCE	22048.854	KURTOSIS	22.654	SKEWNESS	4.297
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	35655.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE V

MEAN	132.340	STD ERROR	5.329	STD DEV	86.256
VARIANCE	7440.103	KURTOSIS	20.631	SKEWNESS	3.947
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	34673.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE CO

MEAN	35.950	STD ERROR	.876	STD DEV	14.182
VARIANCE	201.143	KURTOSIS	6.485	SKEWNESS	2.094
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9419.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE NI

MEAN	57.531	STD ERROR	5.032	STD DEV	81.456
VARIANCE	6635.116	KURTOSIS	45.355	SKEWNESS	5.993
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15073.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE MO

MEAN	3.832	STD ERROR	.083	STD DEV	1.343
VARIANCE	1.803	KURTOSIS	28.767	SKEWNESS	4.032
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1004.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE RB

MEAN	132.179	STD ERROR	3.744	STD DEV	60.594
VARIANCE	3671.673	KURTOSIS	.140	SKEWNESS	-1.007
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	34631.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SR

MEAN	136.221	STD ERROR	13.559	STD DEV	219.466
VARIANCE	48165.360	KURTOSIS	112.006	SKEWNESS	9.050
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	35690.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZR

MEAN	151.250	STD ERROR	7.772	STD DEV	79.257
VARIANCE	6281.684	KURTOSIS	2.474	SKEWNESS	1.340
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	15730.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

VARIABLE Y

MEAN	20.173	STD ERROR	7.182	STD DEV	73.245
VARIANCE	5364.805	KURTOSIS	86.802	SKEWNESS	9.008
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2098.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

*SELECT IF (ROCKCODE EQ 14 OR 34 OR 38)
TASK NAME ROCK CODES 14 34 38
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

DECEMBER 27, 1979

STATISTICS ALL

*SIMPLE STATISTICS for samples from
UNITS 10, 105, 106*

FILE 3

ROCK CODES 14 34 38

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	60.237	STD ERROR	.334	STD DEV	1.888
VARIANCE	3.566	KURTOSIS	1.977	SKEWNESS	1.012
RANGE	9.260	MINIMUM	56.680	MAXIMUM	65.940
SUM	1927.580				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	.727	STD ERROR	.039	STD DEV	.219
VARIANCE	.048	KURTOSIS	2.547	SKEWNESS	1.077
RANGE	1.120	MINIMUM	.310	MAXIMUM	1.430
SUM	23.280				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	20.556	STD ERROR	.345	STD DEV	1.950
VARIANCE	3.804	KURTOSIS	.048	SKEWNESS	-.242
RANGE	8.190	MINIMUM	16.010	MAXIMUM	24.200
SUM	657.780				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	10.148	STD ERROR	.215	STD DEV	1.217
VARIANCE	1.480	KURTOSIS	-.263	SKEWNESS	.458
RANGE	5.010	MINIMUM	8.020	MAXIMUM	13.030
SUM	324.740				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.075	STD ERROR	.010	STD DEV	.054
VARIANCE	.003	KURTOSIS	5.945	SKEWNESS	2.403
RANGE	.240	MINIMUM	.030	MAXIMUM	.270
SUM	2.390				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.427	STD ERROR	.092	STD DEV	.523
VARIANCE	.273	KURTOSIS	5.699	SKEWNESS	1.060
RANGE	3.250	MINIMUM	1.070	MAXIMUM	4.320
SUM	77.650				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.696	STD ERROR	.058	STD DEV	.327
VARIANCE	.107	KURTOSIS	.008	SKEWNESS	.906
RANGE	1.210	MINIMUM	.270	MAXIMUM	1.480
SUM	22.270				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	.670	STD ERROR	.127	STD DEV	.718
VARIANCE	.516	KURTOSIS	6.457	SKEWNESS	2.529
RANGE	3.160	MINIMUM	.210	MAXIMUM	3.370
SUM	21.440				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.315	STD ERROR	.135	STD DEV	.763
VARIANCE	.583	KURTOSIS	-.182	SKEWNESS	-.292
RANGE	3.330	MINIMUM	2.550	MAXIMUM	5.880
SUM	138.080				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.150	STD ERROR	.013	STD DEV	.071
VARIANCE	.005	KURTOSIS	10.190	SKEWNESS	2.881
RANGE	.360	MINIMUM	.090	MAXIMUM	.450
SUM	4.810				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.844	STD ERROR	.186	STD DEV	.982
VARIANCE	.964	KURTOSIS	16.606	SKEWNESS	3.863
RANGE	5.270	MINIMUM	.020	MAXIMUM	5.290
SUM	23.640				

VALID OBSERVATIONS - 28 MISSING OBSERVATIONS - 4

TRANSPACE REQUIRED. 48 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
11 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 32)
TASK NAME ROCK CODE 32
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

DECEMBER 27, 1979

Simple Statistics for samples from
UNIT 1GD

FILE 3

ROCK CODE 32

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	59.173	STD ERROR	.547	STD DEV	3.752
VARIANCE	14.074	KURTOSIS	7.118	SKEWNESS	-1.992
RANGE	23.090	MINIMUM	42.830	MAXIMUM	65.920
SUM	2781.130				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	.748	STD ERROR	.020	STD DEV	.135
VARIANCE	.018	KURTOSIS	4.271	SKEWNESS	1.460
RANGE	.760	MINIMUM	.520	MAXIMUM	1.280
SUM	35.150				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE AL2O3

MEAN	21.644	STD ERROR	.364	STD DEV	2.493
VARIANCE	6.216	KURTOSIS	3.209	SKEWNESS	1.031
RANGE	14.040	MINIMUM	16.740	MAXIMUM	30.780
SUM	1017.270				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE FE2O3

MEAN	9.623	STD ERROR	.163	STD DEV	1.117
VARIANCE	1.247	KURTOSIS	7.869	SKEWNESS	1.544
RANGE	7.950	MINIMUM	6.480	MAXIMUM	14.430
SUM	452.270				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 32
FILE GCHSS3

(CREATION DATE = 12/27/79)

NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.110	STD ERROR	.006	STD DEV	.042
VARIANCE	.002	KURTOSIS	2.964	SKEWNESS	1.497
RANGE	.200	MINIMUM	.050	MAXIMUM	.250
SUM	5.150				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	2.251	STD ERROR	.153	STD DEV	1.046
VARIANCE	1.095	KURTOSIS	41.241	SKEWNESS	6.238
RANGE	7.410	MINIMUM	1.650	MAXIMUM	9.060
SUM	105.790				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	1.056	STD ERROR	.140	STD DEV	.961
VARIANCE	.924	KURTOSIS	14.089	SKEWNESS	3.515
RANGE	5.370	MINIMUM	.390	MAXIMUM	5.760
SUM	49.640				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE NA20

MEAN	.931	STD ERROR	.062	STD DEV	.425
VARIANCE	.181	KURTOSIS	5.233	SKEWNESS	1.646
RANGE	2.330	MINIMUM	.380	MAXIMUM	2.710
SUM	43.770				

VALID OBSERVATIONS = 47 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	4.339	STD ERROR	.109	STD DEV	.749
VARIANCE	.561	KURTOSIS	3.110	SKEWNESS	-.578
RANGE	4.570	MINIMUM	1.960	MAXIMUM	6.530
SUM	203.940				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.125	STD ERROR	.006	STD DEV	.038
VARIANCE	.001	KURTOSIS	6.764	SKEWNESS	1.910
RANGE	.220	MINIMUM	.070	MAXIMUM	.290
SUM	5.860				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.294	STD ERROR	.031	STD DEV	.213
VARIANCE	.045	KURTOSIS	-.204	SKEWNESS	1.039
RANGE	.790	MINIMUM	.060	MAXIMUM	.850
SUM	13.840				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 40)
TASK NAME ROCK CODE 40
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics for all samples from UNIT 1D

FILE 3

ROCK CODE 40

FILE GCHSS3

(CREATION DATE = 12/27/79)

NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	61.084	STD ERROR	.421	STD DEV	3.398
VARIANCE	11.544	KURTOSIS	.285	SKEWNESS	.765
RANGE	15.210	MINIMUM	55.400	MAXIMUM	70.610
SUM	3970.430				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	.573	STD ERROR	.017	STD DEV	.139
VARIANCE	.019	KURTOSIS	.734	SKEWNESS	.092
RANGE	.770	MINIMUM	.180	MAXIMUM	.950
SUM	37.250				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	21.320	STD ERROR	.267	STD DEV	2.151
VARIANCE	4.626	KURTOSIS	.458	SKEWNESS	-.499
RANGE	10.620	MINIMUM	15.670	MAXIMUM	26.290
SUM	1385.770				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	8.857	STD ERROR	.146	STD DEV	1.176
VARIANCE	1.382	KURTOSIS	1.476	SKEWNESS	-.701
RANGE	6.350	MINIMUM	4.880	MAXIMUM	11.230
SUM	575.700				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.086	STD ERROR	.005	STD DEV	.037
VARIANCE	.001	KURTOSIS	6.911	SKEWNESS	2.226
RANGE	.210	MINIMUM	.040	MAXIMUM	.250
SUM	5.620				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.196	STD ERROR	.054	STD DEV	.431
VARIANCE	.186	KURTOSIS	.252	SKEWNESS	-.022
RANGE	2.250	MINIMUM	1.110	MAXIMUM	3.360
SUM	142.710				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.939	STD ERROR	.070	STD DEV	.566
VARIANCE	.320	KURTOSIS	7.015	SKEWNESS	2.244
RANGE	3.200	MINIMUM	.330	MAXIMUM	3.530
SUM	61.010				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	.743	STD ERROR	.039	STD DEV	.317
VARIANCE	.100	KURTOSIS	2.339	SKEWNESS	.918
RANGE	1.750	MINIMUM	.230	MAXIMUM	1.980
SUM	48.310				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.021	STD ERROR	.085	STD DEV	.688
VARIANCE	.474	KURTOSIS	.541	SKEWNESS	.129
RANGE	3.700	MINIMUM	2.260	MAXIMUM	5.960
SUM	261.360				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.181	STD ERROR	.007	STD DEV	.053
VARIANCE	.003	KURTOSIS	3.111	SKEWNESS	1.083
RANGE	.310	MINIMUM	.090	MAXIMUM	.400
SUM	11.750				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.428	STD ERROR	.065	STD DEV	.526
VARIANCE	.277	KURTOSIS	19.718	SKEWNESS	3.974
RANGE	3.480	MINIMUM	.040	MAXIMUM	3.520
SUM	27.830				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 3)
TASK NAME ROCK CODE 3
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ROCK CODE 3

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	58.379	STD ERROR	.890	STD DEV	4.077
VARIANCE	16.626	KURTOSIS	.976	SKEWNESS	-1.122
RANGE	14.580	MINIMUM	48.590	MAXIMUM	63.170
SUM	1225.950				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.784	STD ERROR	.068	STD DEV	.313
VARIANCE	.098	KURTOSIS	3.457	SKEWNESS	.797
RANGE	1.590	MINIMUM	.120	MAXIMUM	1.710
SUM	16.470				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	20.859	STD ERROR	.604	STD DEV	2.769
VARIANCE	7.669	KURTOSIS	2.373	SKEWNESS	-.524
RANGE	12.910	MINIMUM	13.030	MAXIMUM	25.940
SUM	438.030				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.496	STD ERROR	.455	STD DEV	2.084
VARIANCE	4.342	KURTOSIS	.129	SKEWNESS	.873
RANGE	7.520	MINIMUM	6.330	MAXIMUM	13.850
SUM	199.410				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE FE0

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.

VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 3

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.109	STD ERROR	.027	STD DEV	.124
VARIANCE	.015	KURTOSIS	17.341	SKEWNESS	4.015
RANGE	.600	MINIMUM	.030	MAXIMUM	.630
SUM	2.290				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.684	STD ERROR	.324	STD DEV	1.485
VARIANCE	2.205	KURTOSIS	15.164	SKEWNESS	3.718
RANGE	7.170	MINIMUM	1.560	MAXIMUM	8.730
SUM	56.370				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	1.961	STD ERROR	.639	STD DEV	2.928
VARIANCE	8.572	KURTOSIS	5.305	SKEWNESS	2.283
RANGE	11.370	MINIMUM	.230	MAXIMUM	11.600
SUM	41.180				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.272	STD ERROR	.106	STD DEV	.485
VARIANCE	.235	KURTOSIS	-.891	SKEWNESS	-.050
RANGE	1.700	MINIMUM	.370	MAXIMUM	2.070
SUM	26.720				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

ROCK CODE 3

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	4.289	STD ERROR	.195	STD DEV	.892
VARIANCE	.796	KURTOSIS	2.193	SKEWNESS	-1.103
RANGE	3.820	MINIMUM	1.730	MAXIMUM	5.550
SUM	90.060				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.168	STD ERROR	.012	STD DEV	.055
VARIANCE	.003	KURTOSIS	2.005	SKEWNESS	1.340
RANGE	.220	MINIMUM	.100	MAXIMUM	.320
SUM	3.520				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.039	STD ERROR	.011	STD DEV	.042
VARIANCE	.002	KURTOSIS	3.188	SKEWNESS	1.952
RANGE	.140	MINIMUM	.010	MAXIMUM	.150
SUM	.580				

VALID OBSERVATIONS - 15 MISSING OBSERVATIONS - 6

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

SAVE FILE

FILE GCHSS3 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	SIQ2	TIO2	AL203	FE203	FEO	MNO
MGO	CAO	NA20	K20	P205	S	LOI	BA	CU	PB
ZN	CD	AG	CR	V	CO	NI	MO	RB	SR
ZR	Y	ROCKCODE	GROUP	SEQ					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS3	374

FINISH

NORMAL END OF JOB.
45 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

PQS001 GEOCHM

MH

LIBS

AT: 01/09/80 09:17:28 JOB: 58988

UU 40-01-002 6043244320 7

COPY: 1 *

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

DEFAULT SPACE ALLOCATION.. WORKSPACE 3584 WORDS TRANSSPACE 512 WORDS
 ALLOWS FOR.. 23 TRANSFORMATIONS
 46 RECODE VALUES + LAG VARIABLES
 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSS2 NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED
 VARIABLE LIST SPEC S102 T102 AL203 FE203 FEO MNO MGO CAO NA20 K20 P205 S LOI
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,19X,7F8.2/12X,8F8.2/12X,8F8.2/12X,5F8.2,22X,F2.0,F1.0,
 F3.0)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A	1	1
S102	F 8.	1	21
T102	F 8.	1	29
AL203	F 8.	1	37
FE203	F 8.	1	45
FEO	F 8.	1	53
MNO	F 8.	1	61
MGO	F 8.	1	69
CAO	F 8.	2	13
NA20	F 8.	2	21
K20	F 8.	2	29
P205	F 8.	2	37
S	F 8.	2	45
LOI	F 8.	2	53
BA	F 8.	2	61
CU	F 8.	2	69
PB	F 8.	2	13
ZN	F 8.	2	21
CD	F 8.	2	29
AG	F 8.	2	37
CR	F 8.	2	45
V	F 8.	2	53
CO	F 8.	2	61
NI	F 8.	2	69
MO	F 8.	2	13
RB	F 8.	4	21
SR	F 8.	4	29

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
ZR	F 8. 2	4	37- 44
Y	F 8. 2	4	45- 52
ROCKCODE	F 2. 0	4	75- 76
GROUP	F 1. 0	4	77- 77
SEQ	F 3. 0	4	78- 80

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 4 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 80 'COLUMNS' ARE USED ON A RECORD.

RECODE SPEC (' '=0)
MISSING VALUES SIO2 TO Y (-.01)
VAR LABELS SPEC SPECIMEN ID /
GROUP DATA GROUP /
SEQ SAMPLE SEQUENCE /
VALUE LABELS SPEC ('F')FARO SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/
GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/
ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG
(9)STDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E
(16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B
(23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SEV (29)ARGBD
(30)FLSZG (31)OE8 (32)1CD (33)OE7 (34)1C6 (35)1D4 (36)OE6
(37)0DB (38)1C5 (39)OE (40)1D (41)STD SY-3 (42)2A (43)1D+1F
PRINT FORMATS SPEC (A) / SIO2 TO Y (2)
IF (FEO NE -.01) FE203=FE203+(FEO*1.11134)

READ INPUT DATA

AFTER READING 374 CASES FROM SUBFILE GCHSS2 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 50 WORDS
2 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
7 IF/COMPUTE OPERATIONS

FREQUENCIES GENERAL= SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	19	5.1	5.1	5.1
FARO SAMPLE	F	197	52.7	52.7	57.8
FIELD SAMPLE	O	158	42.2	42.2	100.0
	TOTAL	374	100.0	100.0	

VALID CASES 374 MISSING CASES 0

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	55	14.7	14.7	14.7
1979 WHOLE ROCK	2.	112	29.9	29.9	44.7
SECTION 118	3.	207	55.3	55.3	100.0
	TOTAL	374	100.0	100.0	

VALID CASES 374 MISSING CASES 0

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1F	1.	8	2.1	2.1	2.1
3C	2.	7	1.9	1.9	4.0
3G	3.	21	5.6	5.6	9.6
5C	4.	26	7.0	7.0	16.6
5F	5.	2	.5	.5	17.1
MCV	6.	29	7.8	7.8	24.9
5CU	7.	1	.3	.3	25.1
5CG	8.	1	.3	.3	25.4
STD MRG-1	9.	10	2.7	2.7	28.1
UNK	10.	1	.3	.3	28.3
K SMB	11.	6	1.6	1.6	29.9
K SE	12.	2	.5	.5	30.5
5D	13.	4	1.1	1.1	31.6
1C	14.	12	3.2	3.2	34.8
3E	15.	1	.3	.3	35.0
3G-D	16.	1	.3	.3	35.3
STD SY-2	17.	6	1.6	1.6	36.9
3D	18.	11	2.9	2.9	39.8
3DW	19.	3	.8	.8	40.6
3DV	20.	1	.3	.3	40.9
5BD	21.	1	.3	.3	41.2
5B	22.	10	2.7	2.7	43.9

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

SB3	23.	1	.3	.3	44.1
SA	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.5
ARGBK	27.	5	1.3	1.3	47.9
SFV	28.	2	.5	.5	48.4
ARGBD	29.	2	.5	.5	48.9
FLSZG	30.	3	.8	.8	49.7
0E8	31.	11	2.9	2.9	52.7
1CD	32.	47	12.6	12.6	65.2
0E7	33.	2	.5	.5	65.8
1C6	34.	18	4.8	4.8	70.6
1D4	35.	30	8.0	8.0	78.6
0E6	36.	1	.3	.3	78.9
0D8	37.	1	.3	.3	79.1
1C5	38.	2	.5	.5	79.7
0E	39.	6	1.6	1.6	81.3
1D	40.	65	17.4	17.4	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D+1F	43.	1	.3	.3	100.0
TOTAL		374	100.0	100.0	

VALID CASES

374

MISSING CASES

0

CONDESCRIPTIVE SIO2 TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ONE LARGE POPULATION

ALL ELEMENTS

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE SIO2

MEAN	56.512	STD ERROR	.374	STD DEV	7.229
VARIANCE	52.256	KURTOSIS	1.073	SKEWNESS	-.054
RANGE	57.180	MINIMUM	31.380	MAXIMUM	88.560
SUM	21135.450				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	1.010	STD ERROR	.048	STD DEV	.922
VARIANCE	.849	KURTOSIS	4.167	SKEWNESS	2.090
RANGE	4.940	MINIMUM	0.	MAXIMUM	4.940
SUM	377.920				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	18.204	STD ERROR	.216	STD DEV	4.176
VARIANCE	17.436	KURTOSIS	.528	SKEWNESS	-.505
RANGE	29.910	MINIMUM	.860	MAXIMUM	30.770
SUM	6808.470				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	10.184	STD ERROR	.161	STD DEV	3.120
VARIANCE	9.732	KURTOSIS	.890	SKEWNESS	.656
RANGE	21.012	MINIMUM	.880	MAXIMUM	21.892
SUM	3808.796				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.822	STD ERROR	.320	STD DEV	2.536
VARIANCE	6.431	KURTOSIS	1.633	SKEWNESS	-.064
RANGE	14.900	MINIMUM	1.460	MAXIMUM	16.360
SUM	492.780				

VALID OBSERVATIONS - 63 MISSING OBSERVATIONS - 311

VARIABLE MNO

MEAN	.118	STD ERROR	.004	STD DEV	.069
VARIANCE	.005	KURTOSIS	9.712	SKEWNESS	2.145
RANGE	.620	MINIMUM	.010	MAXIMUM	.630
SUM	44.150				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	4.237	STD ERROR	.199	STD DEV	3.852
VARIANCE	14.841	KURTOSIS	12.345	SKEWNESS	2.813
RANGE	32.940	MINIMUM	.310	MAXIMUM	33.250
SUM	1584.790				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	4.676	STD ERROR	.282	STD DEV	5.448
VARIANCE	29.678	KURTOSIS	11.641	SKEWNESS	2.253
RANGE	49.170	MINIMUM	.120	MAXIMUM	49.290
SUM	1748.830				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.591	STD ERROR	.070	STD DEV	1.363
VARIANCE	1.858	KURTOSIS	.132	SKEWNESS	1.101
RANGE	5.600	MINIMUM	.110	MAXIMUM	5.710
SUM	595.000				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE K20

MEAN	2.999	STD ERROR	.090	STD DEV	1.747
VARIANCE	3.051	KURTOSIS	-1.122	SKEWNESS	-.482
RANGE	6.720	MINIMUM	0.	MAXIMUM	6.720
SUM	1121.670				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.212	STD ERROR	.007	STD DEV	.136
VARIANCE	.018	KURTOSIS	3.617	SKEWNESS	1.874
RANGE	.820	MINIMUM	.040	MAXIMUM	.860
SUM	79.150				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.510	STD ERROR	.058	STD DEV	.943
VARIANCE	.889	KURTOSIS	25.687	SKEWNESS	4.568
RANGE	7.580	MINIMUM	.010	MAXIMUM	7.590
SUM	133.500				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE BA

MEAN	1408.042	STD ERROR	350.775	STD DEV	5677.788
VARIANCE	*****	KURTOSIS	242.352	SKEWNESS	15.332
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	368907.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CU

MEAN	110.176	STD ERROR	15.718	STD DEV	254.417
VARIANCE	64727.792	KURTOSIS	79.958	SKEWNESS	7.891
RANGE	3096.000	MINIMUM	4.000	MAXIMUM	3100.000
SUM	28866.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE PB

MEAN	116.298	STD ERROR	52.068	STD DEV	842.801
VARIANCE	710313.520	KURTOSIS	232.055	SKEWNESS	14.902
RANGE	13298.000	MINIMUM	2.000	MAXIMUM	13300.000
SUM	30470.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZN

MEAN	225.412	STD ERROR	60.056	STD DEV	972.088
VARIANCE	944954.220	KURTOSIS	94.064	SKEWNESS	9.455
RANGE	11480.000	MINIMUM	20.000	MAXIMUM	11500.000
SUM	59058.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE CD

MEAN	.274	STD ERROR	.082	STD DEV	1.320
VARIANCE	1.743	KURTOSIS	58.365	SKEWNESS	7.206
RANGE	13.500	MINIMUM	0.	MAXIMUM	13.500
SUM	71.800				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE AG

MEAN	.365	STD ERROR	.054	STD DEV	.877
VARIANCE	.770	KURTOSIS	20.312	SKEWNESS	4.381
RANGE	6.000	MINIMUM	0.	MAXIMUM	6.000
SUM	95.600				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CR

MEAN	136.088	STD ERROR	9.174	STD DEV	148.489
VARIANCE	22048.854	KURTOSIS	22.654	SKEWNESS	4.297
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	35655.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE V

MEAN	132.340	STD ERROR	5.329	STD DEV	86.256
VARIANCE	7440.103	KURTOSIS	20.631	SKEWNESS	3.947
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	34673.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE CO

MEAN	35.950	STD ERROR	.876	STD DEV	14.182
VARIANCE	201.143	KURTOSIS	6.485	SKEWNESS	2.094
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9419.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE NI

MEAN	57.531	STD ERROR	5.032	STD DEV	81.456
VARIANCE	6635.116	KURTOSIS	45.355	SKEWNESS	5.993
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15073.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE MO

MEAN	3.832	STD ERROR	.083	STD DEV	1.343
VARIANCE	1.803	KURTOSIS	28.767	SKEWNESS	4.032
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1004.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE RB

MEAN	132.179	STD ERROR	3.744	STD DEV	60.594
VARIANCE	3671.673	KURTOSIS	.140	SKEWNESS	-1.007
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	34631.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS2 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

VARIABLE SR

MEAN	136.221	STD ERROR	13.559	STD DEV	219.466
VARIANCE	48165.360	KURTOSIS	112.006	SKEWNESS	9.050
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	35690.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZR

MEAN	151.250	STD ERROR	7.772	STD DEV	79.257
VARIANCE	6281.684	KURTOSIS	2.474	SKEWNESS	1.340
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	15730.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

VARIABLE Y

MEAN	20.173	STD ERROR	7.182	STD DEV	73.245
VARIANCE	5364.805	KURTOSIS	86.802	SKEWNESS	9.008
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2098.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

SAVE FILE

FILE GCHSS2 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	SI02	TIO2	AL203	FE203	FEO	MNO
MGO	CAO	NA2O	K2O	P2O5	S	LOI	BA	CU	PB
ZN	CD	AG	CR	V	CO	NI	MO	RB	SR
ZR	Y	ROCKCODE	GROUP	SEQ					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS2	374

FINISH

NORMAL END OF JOB.
 29 CONTROL CARDS WERE PROCESSED.
 0 ERRORS WERE DETECTED.

JANUARY 9, 1980

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21,1979

DEFAULT SPACE ALLOCATION.. WORKSPACE 3584 WORDS TRANSSPACE 512 WORDS
 ALLOWS FOR.. 23 TRANSFORMATIONS
 46 RECODE VALUES + LAG VARIABLES
 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSSI NORMALIZED WITH L.O.I.
 VARIABLE LIST SPEC S102 T102 AL203 FE203 FEO MNO MGO CAO NA20 K20 P205 S LOI
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,19X,7F8.2/12X,8F8.2/12X,8F8.2/12X,5F8.2,22X,F2.0,F1.0,
 F3.0)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A	1	1
S102	F 8.	1	21-28
T102	F 8.	1	29-36
AL203	F 8.	1	37-44
FE203	F 8.	1	45-52
FEO	F 8.	1	53-60
MNO	F 8.	1	61-68
MGO	F 8.	1	69-76
CAO	F 8.	1	13-20
NA20	F 8.	1	21-28
K20	F 8.	1	29-36
P205	F 8.	1	37-44
S	F 8.	1	45-52
LOI	F 8.	1	53-60
BA	F 8.	1	61-68
CU	F 8.	1	69-76
PB	F 8.	1	13-20
ZN	F 8.	1	21-28
CD	F 8.	1	29-36
AG	F 8.	1	37-44
CR	F 8.	1	45-52
V	F 8.	1	53-60
CO	F 8.	1	61-68
NI	F 8.	1	69-76
MO	F 8.	1	13-20
RB	F 8.	4	21-28
SR	F 8.	4	29-36

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE FORMAT RECORD COLUMNS

ZR	F 8. 2	4	37- 44
Y	F 8. 2	4	45- 52
ROCKCODE	F 2. 0	4	75- 76
GROUP	F 1. 0	4	77- 77
SEQ	F 3. 0	4	78- 80

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 4 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 80 'COLUMNS' ARE USED ON A RECORD.

RECODE SPEC (' '=0)
MISSING VALUES SIO2 TO Y (-.01)
VAR LABELS SPEC SPECIMEN ID /
 GROUP DATA GROUP /
 SEQ SAMPLE SEQUENCE
VALUE LABELS SPEC ('F')FARO SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/
 GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/
 ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG
 (9)STDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E
 (16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B
 (23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SEV (29)ARGBD
 (30)FLSZG (31)OE8 (32)1CD (33)OE7 (34)1C6 (35)1D4 (36)OE6
 (37)0D8 (38)1C5 (39)0E (40)1D (41)STD SY-3 (42)2A (43)1D+1F
PRINT FORMATS SPEC (A) / SIO2 TO Y (2)
IF (FE0 NE -.01) FE203=FE203+(FE0*1.11134)

READ INPUT DATA

AFTER READING 374 CASES FROM SUBFILE GCHSS1 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 50 WORDS
2 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
7 IF/COMPUTE OPERATIONS

FREQUENCIES GENERAL= SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1F	1.	8	2.1	2.1	2.1
3C	2.	7	1.9	1.9	4.0
3G	3.	21	5.6	5.6	9.6
5C	4.	26	7.0	7.0	16.6
5F	5.	2	.5	.5	17.1
MCV	6.	29	7.8	7.8	24.9
5CU	7.	1	.3	.3	25.1
5CG	8.	1	.3	.3	25.4
STDMRG-1	9.	10	2.7	2.7	28.1
UNK	10.	1	.3	.3	28.3
K SMB	11.	6	1.6	1.6	29.9
KSE	12.	2	.5	.5	30.5
5D	13.	4	1.1	1.1	31.6
1C	14.	12	3.2	3.2	34.8
3E	15.	1	.3	.3	35.0
3G-D	16.	1	.3	.3	35.3
STD SY-2	17.	6	1.6	1.6	36.9
3D	18.	11	2.9	2.9	39.8
3DW	19.	3	.8	.8	40.6
3DV	20.	1	.3	.3	40.9
5BD	21.	1	.3	.3	41.2
5B	22.	10	2.7	2.7	43.9

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

SB3	23.	1	.3	.3	44.1
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.5
ARGBK	27.	5	1.3	1.3	47.9
SFV	28.	2	.5	.5	48.4
ARGBD	29.	2	.5	.5	48.9
FLSZG	30.	3	.8	.8	49.7
0E8	31.	11	2.9	2.9	52.7
1CD	32.	47	12.6	12.6	65.2
0E7	33.	2	.5	.5	65.8
1C6	34.	18	4.8	4.8	70.6
1D4	35.	30	8.0	8.0	78.6
0E6	36.	1	.3	.3	78.9
0D8	37.	1	.3	.3	79.1
1C5	38.	2	.5	.5	79.7
0E	39.	6	1.6	1.6	81.3
1D	40.	65	17.4	17.4	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D+1F	43.	1	.3	.3	100.0
TOTAL		374	100.0	100.0	

VALID CASES

374

MISSING CASES

0

CONDESCRIPTIVE SIO2 TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

ONE LARGE POPULATION

COMPUTES AVERAGE, + STATS FOR ALL ELEMENTS

NORMALIZED WITH LOI

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE SIO2

MEAN	53.645	STD ERROR	.368	STD DEV	7.122
VARIANCE	50.718	KURTOSIS	1.599	SKEWNESS	-.089
RANGE	63.220	MINIMUM	22.500	MAXIMUM	85.720
SUM	20063.080				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	.965	STD ERROR	.046	STD DEV	.892
VARIANCE	.795	KURTOSIS	4.149	SKEWNESS	2.097
RANGE	4.690	MINIMUM	0.	MAXIMUM	4.690
SUM	360.750				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE AL2O3

MEAN	17.253	STD ERROR	.201	STD DEV	3.884
VARIANCE	15.083	KURTOSIS	.625	SKEWNESS	-.587
RANGE	27.380	MINIMUM	.800	MAXIMUM	28.180
SUM	6452.590				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

MEAN	9.675	STD ERROR	.157	STD DEV	3.028
VARIANCE	9.168	KURTOSIS	1.227	SKEWNESS	.763
RANGE	20.997	MINIMUM	.850	MAXIMUM	21.847
SUM	3618.362				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.443	STD ERROR	.304	STD DEV	2.416
VARIANCE	5.839	KURTOSIS	2.376	SKEWNESS	.090
RANGE	14.910	MINIMUM	1.410	MAXIMUM	16.320
SUM	468.940				

VALID OBSERVATIONS - 63 MISSING OBSERVATIONS - 311

VARIABLE MNO

MEAN	.113	STD ERROR	.003	STD DEV	.065
VARIANCE	.004	KURTOSIS	6.709	SKEWNESS	1.934
RANGE	.520	MINIMUM	.010	MAXIMUM	.530
SUM	42.170				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	4.030	STD ERROR	.190	STD DEV	3.671
VARIANCE	13.476	KURTOSIS	11.608	SKEWNESS	2.750
RANGE	30.740	MINIMUM	.300	MAXIMUM	31.040
SUM	1507.340				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	4.422	STD ERROR	.256	STD DEV	4.947
VARIANCE	24.476	KURTOSIS	3.640	SKEWNESS	1.492
RANGE	35.230	MINIMUM	.120	MAXIMUM	35.350
SUM	1653.940				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.518	STD ERROR	.068	STD DEV	1.311
VARIANCE	1.720	KURTOSIS	.054	SKEWNESS	1.088
RANGE	5.400	MINIMUM	.100	MAXIMUM	5.500
SUM	567.870				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	2.839	STD ERROR	.085	STD DEV	1.649
VARIANCE	2.720	KURTOSIS	-1.130	SKEWNESS	-.492
RANGE	6.430	MINIMUM	0.	MAXIMUM	6.430
SUM	1061.860				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.200	STD ERROR	.007	STD DEV	.130
VARIANCE	.017	KURTOSIS	3.623	SKEWNESS	1.888
RANGE	.770	MINIMUM	.040	MAXIMUM	.810
SUM	74.910				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.485	STD ERROR	.057	STD DEV	.916
VARIANCE	.839	KURTOSIS	27.303	SKEWNESS	4.705
RANGE	7.430	MINIMUM	.010	MAXIMUM	7.440
SUM	127.170				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE LOI

MEAN	5.100	STD ERROR	.162	STD DEV	3.132
VARIANCE	9.812	KURTOSIS	8.816	SKEWNESS	1.830
RANGE	28.280	MINIMUM	0.	MAXIMUM	28.280
SUM	1907.430				

VALID OBSERVATIONS - 374 MISSING OBSERVATIONS - 0

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE BA

MEAN	1408.042	STD ERROR	350.775	STD DEV	5677.788
VARIANCE	*****	KURTOSIS	242.352	SKEWNESS	15.332
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	368907.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CU

MEAN	110.176	STD ERROR	15.718	STD DEV	254.417
VARIANCE	64727.792	KURTOSIS	79.958	SKEWNESS	7.891
RANGE	3096.000	MINIMUM	4.000	MAXIMUM	3100.000
SUM	28866.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE PB

MEAN	116.298	STD ERROR	52.068	STD DEV	842.801
VARIANCE	710313.520	KURTOSIS	232.055	SKEWNESS	14.902
RANGE	13298.000	MINIMUM	2.000	MAXIMUM	13300.000
SUM	30470.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZN

MEAN	225.412	STD ERROR	60.056	STD DEV	972.088
VARIANCE	944954.220	KURTOSIS	94.064	SKEWNESS	9.455
RANGE	11480.000	MINIMUM	20.000	MAXIMUM	11500.000
SUM	59058.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE CD

MEAN	.274	STD ERROR	.082	STD DEV	1.320
VARIANCE	1.743	KURTOSIS	58.365	SKEWNESS	7.206
RANGE	13.500	MINIMUM	0.	MAXIMUM	13.500
SUM	71.800				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE AG

MEAN	.365	STD ERROR	.054	STD DEV	.877
VARIANCE	.770	KURTOSIS	20.312	SKEWNESS	4.381
RANGE	6.000	MINIMUM	0.	MAXIMUM	6.000
SUM	95.600				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE CR

MEAN	136.088	STD ERROR	9.174	STD DEV	148.489
VARIANCE	22048.854	KURTOSIS	22.654	SKEWNESS	4.297
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	35655.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE V

MEAN	132.340	STD ERROR	5.329	STD DEV	86.256
VARIANCE	7440.103	KURTOSIS	20.631	SKEWNESS	3.947
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	34673.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

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FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE CO

MEAN	35.950	STD ERROR	.876	STD DEV	14.182
VARIANCE	201.143	KURTOSIS	6.485	SKEWNESS	2.094
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9419.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE NI

MEAN	57.531	STD ERROR	5.032	STD DEV	81.456
VARIANCE	6635.116	KURTOSIS	45.355	SKEWNESS	5.993
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15073.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE MO

MEAN	3.832	STD ERROR	.083	STD DEV	1.343
VARIANCE	1.803	KURTOSIS	28.767	SKEWNESS	4.032
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1004.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE RB

MEAN	132.179	STD ERROR	3.744	STD DEV	60.594
VARIANCE	3671.673	KURTOSIS	.140	SKEWNESS	-1.007
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	34631.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE SR

MEAN	136.221	STD ERROR	13.559	STD DEV	219.466
VARIANCE	48165.360	KURTOSIS	112.006	SKEWNESS	9.050
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	35690.000				

VALID OBSERVATIONS - 262 MISSING OBSERVATIONS - 112

VARIABLE ZR

MEAN	151.250	STD ERROR	7.772	STD DEV	79.257
VARIANCE	6281.684	KURTOSIS	2.474	SKEWNESS	1.340
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	15730.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

VARIABLE Y

MEAN	20.173	STD ERROR	7.182	STD DEV	73.245
VARIANCE	5364.805	KURTOSIS	86.802	SKEWNESS	9.008
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2098.000				

VALID OBSERVATIONS - 104 MISSING OBSERVATIONS - 270

*SELECT IF (ROCKCODE EQ 14 OR 34 OR 38)
TASK NAME ROCK CODES 14 34 38
CONDESCRIPTIVE SIO2 TO LOI

IC IC6 IC5

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SIO2

MEAN	56.819	STD ERROR	.368	STD DEV	2.081
VARIANCE	4.330	KURTOSIS	2.202	SKEWNESS	1.488
RANGE	8.850	MINIMUM	54.090	MAXIMUM	62.940
SUM	1818.220				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.689	STD ERROR	.038	STD DEV	.217
VARIANCE	.047	KURTOSIS	2.717	SKEWNESS	1.141
RANGE	1.110	MINIMUM	.290	MAXIMUM	1.400
SUM	22.050				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	19.388	STD ERROR	.335	STD DEV	1.895
VARIANCE	3.591	KURTOSIS	.021	SKEWNESS	.245
RANGE	8.000	MINIMUM	15.680	MAXIMUM	23.680
SUM	620.400				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.566	STD ERROR	.195	STD DEV	1.105
VARIANCE	1.221	KURTOSIS	-.013	SKEWNESS	.466
RANGE	4.820	MINIMUM	7.490	MAXIMUM	12.310
SUM	306.110				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.072	STD ERROR	.009	STD DEV	.050
VARIANCE	.003	KURTOSIS	6.616	SKEWNESS	2.506
RANGE	.230	MINIMUM	.030	MAXIMUM	.260
SUM	2.290				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.290	STD ERROR	.089	STD DEV	.503
VARIANCE	.253	KURTOSIS	5.778	SKEWNESS	1.089
RANGE	3.130	MINIMUM	.990	MAXIMUM	4.120
SUM	73.290				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.656	STD ERROR	.054	STD DEV	.308
VARIANCE	.095	KURTOSIS	.175	SKEWNESS	.938
RANGE	1.170	MINIMUM	.250	MAXIMUM	1.420
SUM	20.980				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	.637	STD ERROR	.124	STD DEV	.704
VARIANCE	.496	KURTOSIS	6.635	SKEWNESS	2.561
RANGE	3.100	MINIMUM	.200	MAXIMUM	3.300
SUM	20.390				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.069	STD ERROR	.127	STD DEV	.716
VARIANCE	.512	KURTOSIS	-.565	SKEWNESS	-.223
RANGE	2.960	MINIMUM	2.500	MAXIMUM	5.460
SUM	130.210				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.141	STD ERROR	.012	STD DEV	.070
VARIANCE	.005	KURTOSIS	10.511	SKEWNESS	2.908
RANGE	.360	MINIMUM	.080	MAXIMUM	.440
SUM	4.500				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.790	STD ERROR	.172	STD DEV	.911
VARIANCE	.830	KURTOSIS	16.656	SKEWNESS	3.863
RANGE	4.900	MINIMUM	.020	MAXIMUM	4.920
SUM	22.130				

VALID OBSERVATIONS - 28 MISSING OBSERVATIONS - 4

VARIABLE LOI

MEAN	4.980	STD ERROR	.312	STD DEV	1.762
VARIANCE	3.105	KURTOSIS	-.376	SKEWNESS	.327
RANGE	6.780	MINIMUM	2.060	MAXIMUM	8.840
SUM	159.350				

VALID OBSERVATIONS - 32 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 48 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
11 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 32)
TASK NAME ROCK CODE 32
CONDESCRIPTIVE SI02 TO LOI

LCD

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

MEAN + STATS

MAJOR ELEMENTS ONLY

VARIABLE S102

MEAN	55.573	STD ERROR	.607	STD DEV	4.161
VARIANCE	17.311	KURTOSIS	6.108	SKEWNESS	-1.675
RANGE	25.230	MINIMUM	37.990	MAXIMUM	63.220
SUM	2611.950				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.700	STD ERROR	.019	STD DEV	.128
VARIANCE	.016	KURTOSIS	4.059	SKEWNESS	1.362
RANGE	.720	MINIMUM	.480	MAXIMUM	1.200
SUM	32.890				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	20.292	STD ERROR	.312	STD DEV	2.139
VARIANCE	4.575	KURTOSIS	1.684	SKEWNESS	.615
RANGE	11.610	MINIMUM	15.700	MAXIMUM	27.310
SUM	953.740				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.021	STD ERROR	.139	STD DEV	.951
VARIANCE	.904	KURTOSIS	6.219	SKEWNESS	1.160
RANGE	6.570	MINIMUM	6.230	MAXIMUM	12.800
SUM	423.980				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE FE0

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.102	STD ERROR	.005	STD DEV	.037
VARIANCE	.001	KURTOSIS	2.257	SKEWNESS	1.389
RANGE	.170	MINIMUM	.050	MAXIMUM	.220
SUM	4.810				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.111	STD ERROR	.143	STD DEV	.979
VARIANCE	.959	KURTOSIS	41.713	SKEWNESS	6.291
RANGE	6.920	MINIMUM	1.580	MAXIMUM	8.500
SUM	99.210				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.989	STD ERROR	.132	STD DEV	.905
VARIANCE	.819	KURTOSIS	14.140	SKEWNESS	3.540
RANGE	5.030	MINIMUM	.370	MAXIMUM	5.400
SUM	46.480				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	.877	STD ERROR	.060	STD DEV	.408
VARIANCE	.167	KURTOSIS	5.633	SKEWNESS	1.689
RANGE	2.260	MINIMUM	.350	MAXIMUM	2.610
SUM	41.230				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	4.068	STD ERROR	.099	STD DEV	.678
VARIANCE	.460	KURTOSIS	2.740	SKEWNESS	-.843
RANGE	3.950	MINIMUM	1.840	MAXIMUM	5.790
SUM	191.210				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.116	STD ERROR	.005	STD DEV	.035
VARIANCE	.001	KURTOSIS	7.332	SKEWNESS	2.072
RANGE	.200	MINIMUM	.070	MAXIMUM	.270
SUM	5.460				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.275	STD ERROR	.029	STD DEV	.200
VARIANCE	.040	KURTOSIS	-.354	SKEWNESS	1.007
RANGE	.710	MINIMUM	.050	MAXIMUM	.760
SUM	12.940				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	5.869	STD ERROR	.289	STD DEV	1.978
VARIANCE	3.914	KURTOSIS	-.423	SKEWNESS	.601
RANGE	8.020	MINIMUM	3.220	MAXIMUM	11.240
SUM	275.840				

VALID OBSERVATIONS - 47 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 40)
TASK NAME ROCK CODE 40
CONDESCRIPTIVE S102 TO L01

ID

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

MEAN + STATISTICS

MAJOR ELEMENTS ONLY

VARIABLE SI02

MEAN	57.331	STD ERROR	.464	STD DEV	3.742
VARIANCE	14.002	KURTOSIS	.462	SKEWNESS	-.690
RANGE	17.350	MINIMUM	50.440	MAXIMUM	67.790
SUM	3726.490				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.536	STD ERROR	.016	STD DEV	.130
VARIANCE	.017	KURTOSIS	.556	SKEWNESS	-.021
RANGE	.700	MINIMUM	.160	MAXIMUM	.860
SUM	34.830				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	19.991	STD ERROR	.240	STD DEV	1.936
VARIANCE	3.748	KURTOSIS	.633	SKEWNESS	-.602
RANGE	10.130	MINIMUM	14.260	MAXIMUM	24.390
SUM	1299.440				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	8.301	STD ERROR	.130	STD DEV	1.045
VARIANCE	1.093	KURTOSIS	1.846	SKEWNESS	-.850
RANGE	5.640	MINIMUM	4.600	MAXIMUM	10.240
SUM	539.570				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.081	STD ERROR	.004	STD DEV	.034
VARIANCE	.001	KURTOSIS	7.739	SKEWNESS	2.427
RANGE	.190	MINIMUM	.040	MAXIMUM	.230
SUM	5.240				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	2.060	STD ERROR	.050	STD DEV	.406
VARIANCE	.165	KURTOSIS	.185	SKEWNESS	-.040
RANGE	2.090	MINIMUM	1.050	MAXIMUM	3.140
SUM	133.930				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.880	STD ERROR	.065	STD DEV	.527
VARIANCE	.278	KURTOSIS	6.128	SKEWNESS	2.126
RANGE	2.910	MINIMUM	.300	MAXIMUM	3.210
SUM	57.200				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	.698	STD ERROR	.038	STD DEV	.305
VARIANCE	.093	KURTOSIS	2.804	SKEWNESS	1.019
RANGE	1.710	MINIMUM	.220	MAXIMUM	1.930
SUM	45.380				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.769	STD ERROR	.077	STD DEV	.618
VARIANCE	.382	KURTOSIS	.495	SKEWNESS	-.034
RANGE	3.370	MINIMUM	2.060	MAXIMUM	5.430
SUM	244.990				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.169	STD ERROR	.006	STD DEV	.050
VARIANCE	.002	KURTOSIS	3.796	SKEWNESS	1.192
RANGE	.290	MINIMUM	.090	MAXIMUM	.380
SUM	10.980				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.399	STD ERROR	.060	STD DEV	.483
VARIANCE	.233	KURTOSIS	18.810	SKEWNESS	3.877
RANGE	3.160	MINIMUM	.040	MAXIMUM	3.200
SUM	25.910				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

VARIABLE LOI

MEAN	5.781	STD ERROR	.214	STD DEV	1.725
VARIANCE	2.977	KURTOSIS	-.200	SKEWNESS	.060
RANGE	7.900	MINIMUM	2.050	MAXIMUM	9.950
SUM	375.770				

VALID OBSERVATIONS - 65 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 3)
TASK NAME ROCK CODE 3
CONDESCRIPTIVE SIO2 TO LOI

3G

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

MEAN + STATISTICS

MAJOR ELEMENTS ONLY

VARIABLE S102

MEAN	56.104	STD ERROR	1.013	STD DEV	4.643
VARIANCE	21.553	KURTOSIS	4.188	SKEWNESS	-1.908
RANGE	19.380	MINIMUM	41.570	MAXIMUM	60.950
SUM	1178.190				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.759	STD ERROR	.067	STD DEV	.307
VARIANCE	.094	KURTOSIS	3.412	SKEWNESS	.742
RANGE	1.560	MINIMUM	.100	MAXIMUM	1.660
SUM	15.930				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	20.070	STD ERROR	.623	STD DEV	2.854
VARIANCE	8.144	KURTOSIS	4.522	SKEWNESS	-1.245
RANGE	13.750	MINIMUM	10.970	MAXIMUM	24.720
SUM	421.460				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	9.093	STD ERROR	.412	STD DEV	1.890
VARIANCE	3.570	KURTOSIS	.731	SKEWNESS	.982
RANGE	7.220	MINIMUM	6.240	MAXIMUM	13.460
SUM	190.960				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.103	STD ERROR	.023	STD DEV	.103
VARIANCE	.011	KURTOSIS	16.224	SKEWNESS	3.838
RANGE	.500	MINIMUM	.030	MAXIMUM	.530
SUM	2.170				

VALID OBSERVATIONS = 21 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	2.544	STD ERROR	.267	STD DEV	1.222
VARIANCE	1.492	KURTOSIS	12.881	SKEWNESS	3.374
RANGE	5.850	MINIMUM	1.500	MAXIMUM	7.350
SUM	53.430				

VALID OBSERVATIONS = 21 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	1.845	STD ERROR	.575	STD DEV	2.633
VARIANCE	6.934	KURTOSIS	3.401	SKEWNESS	1.985
RANGE	9.540	MINIMUM	.220	MAXIMUM	9.760
SUM	38.750				

VALID OBSERVATIONS = 21 MISSING OBSERVATIONS = 0

VARIABLE NA20

MEAN	1.224	STD ERROR	.105	STD DEV	.480
VARIANCE	.230	KURTOSIS	-.899	SKEWNESS	.038
RANGE	1.700	MINIMUM	.350	MAXIMUM	2.050
SUM	25.710				

VALID OBSERVATIONS = 21 MISSING OBSERVATIONS = 0

ROCK CODE 3

FILE GCHSS1 (CREATION DATE = 01/09/80) NORMALIZED WITH L.O.I.

VARIABLE K20

MEAN	4.134	STD ERROR	.196	STD DEV	.899
VARIANCE	.808	KURTOSIS	2.834	SKEWNESS	-1.178
RANGE	4.050	MINIMUM	1.460	MAXIMUM	5.510
SUM	86.810				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.158	STD ERROR	.010	STD DEV	.047
VARIANCE	.002	KURTOSIS	.855	SKEWNESS	1.137
RANGE	.170	MINIMUM	.100	MAXIMUM	.270
SUM	3.320				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.037	STD ERROR	.010	STD DEV	.039
VARIANCE	.002	KURTOSIS	2.995	SKEWNESS	1.882
RANGE	.130	MINIMUM	.010	MAXIMUM	.140
SUM	.560				

VALID OBSERVATIONS - 15 MISSING OBSERVATIONS - 6

VARIABLE LOI

MEAN	3.934	STD ERROR	.657	STD DEV	3.011
VARIANCE	9.068	KURTOSIS	13.045	SKEWNESS	3.179
RANGE	15.340	MINIMUM	.460	MAXIMUM	15.800
SUM	82.620				

VALID OBSERVATIONS - 21 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

SAVE FILE

FILE GCHSS1 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	SIO2	TI02	AL203	FE203	FEO	MNU
MGO	CA0	NA20	K20	P205	S	LOI	BA	CU	PB
ZN	CD	AG	CR	V	CO	NI	MO	RB	SR
ZR	Y	ROCKCODE	GROUP	SEQ					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS1	374

FINISH

NORMAL END OF JOB.
45 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

DECEMBER 13, 1979

GEOCHEMICAL DATA - WHOLE ROCK ANALYSES

GPS PQS001,,GEOCHM

AT: 12/13/79 14:01:37 JOB: 12289 UU 40-01-002 6043244320 1 COPY: 1 *

SPSS: CONDSCRIPTIVE FOR EACH ELEMENT

STATISTICS ALL

FOR THE FILE - NORMALIZED WITH LOI

```
12/13/79 13:45:01-00 004
!* ***** THIS IS ACCOUNT PQS001 *****
!FORM 132
GPS470 I FORM IGNORED
GPS207 I ERR DURING FORM, CMND #01, FROM G$AUTO, LINE 3
!LIMIT GROWTH:10000
!USAGE, ALL
USAGE ON 12/13/79 AT 13:45:07.
PAGES:225 DATE:00/00/00
LIMIT:2000 TAPES:10
!ORDER LIB:PQS100
!* ***** USE THE FOLLOWING COMMAND TO LOAD A PROGRAM
!*
!* UNBIND,LIST,ONLY PRODLB.02 PPPPP.VV-XQT
!* *****
!EQUATE 4 GCHSS1.
!SPSS.N INS:COMND1 OUTS:MH FTN8:GCHMN1.GE
STOP
SRU'S:53.3
!SAVE MH
GPS566 E NO TEMP FILE MH
GPS207 I ERR DURING SAVE, CMND #01, FROM INS
!OFF
USAGE ON 12/13/79 AT 13:45:45
SRU'S:57.1 ELAPSED TIME: 00:00:44
```

GPS PQS001,,GEOCHM

AT: 12/13/79 14:01:49 JOB: 12661 UU 40-01-002 6043244320 2 COPY: 1 *

```
12/13/79 13:51:23-00 050
!* ***** THIS IS ACCOUNT PQS001 *****!
IFORM 132
GPS470 I FORM IGNORED
GPS207 I ERR DURING FORM, CMND #01, FROM G$AUTO, LINE 3
!LIMIT GROWTH:10000
!USAGE,ALL
USAGE ON 12/13/79 AT 13:51:28
PAGES:258 DATE:00/00/00
LIMIT:2000 TAPES:10
!ORDER LIB:PQS100
!* ***** USE THE FOLLOWING COMMAND TO LOAD A PROGRAM !
!* !UNBIND,LIST,ONLY PRODLB.02 PPPPP.VV=XGT !
!* *****!
!EQUATE 4 GCHSS1.
!SPSS.N INS:COMND1 OUTS:MH FTN8:GCHMN1.GE
STOP.
SRU'S:91.3
!SAVE MH
GPS566 E NO TEMP FILE MH
GPS207 I ERR DURING SAVE, CMND #01, FROM INS
!OFF
USAGE ON 12/13/79 AT 13:53:24
SRU'S:95.4 ELAPSED TIME: 00:02:01
```

MOUNT PRINT FORMS ST2

PQS001 GEOCHM

MH

LIBS

AT: 12/13/79 14:02:12 JOB: 12996

UU 40-01-002 6043244320 3

COPY: 1 *

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSS1
 VARIABLE LIST SPEC GROUP SEQ ROCKCODE SIO2 TIO2 AL203 FE203 FEO MNO MGO CAO
 NA20 K20 P205 S LOI BA CU PB ZN CD AG CR V CO NI MO RB SR ZR Y
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,9X,F1.0,F3.0,8X,F3.0,28F8.2)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A	1	1 - 1
GROUP	F	1	11 - 11
SEQ	F	1	12 - 14
ROCKCODE	F	1	23 - 25
SIO2	F	1	26 - 33
TIO2	F	1	34 - 41
AL203	F	1	42 - 49
FE203	F	1	50 - 57
FEO	F	1	58 - 65
MNO	F	1	66 - 73
MGO	F	1	74 - 81
CAO	F	1	82 - 89
NA20	F	1	90 - 97
K20	F	1	98 - 105
P205	F	1	106 - 113
S	F	1	114 - 121
LOI	F	1	122 - 129
BA	F	1	130 - 137
CU	F	1	138 - 145
PB	F	1	146 - 153
ZN	F	1	154 - 161
CD	F	1	162 - 169
AG	F	1	170 - 177
CR	F	1	178 - 185
V	F	1	186 - 193
CO	F	1	194 - 201
NI	F	1	202 - 209
MO	F	2	210 - 217

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
RB	F 8. 2	1	218- 225
SR	F 8. 2	1	226- 233
ZR	F 8. 2	1	234- 241
Y	F 8. 2	1	242- 249

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
IT PROVIDES FOR 1 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 249 'COLUMNS' ARE USED ON A RECORD.

RECODE	SPEC ('I'=0)
MISSING VALUES	SI02 TO Y (= .01)
VAR LABELS	SPEC SPECIMEN ID / GROUP DATA GROUP / SEQ SAMPLE SEQUENCE
VALUE LABELS	SPEC ('F')FIELD SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/ GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/ ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG (9)STDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E (16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B (23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SFV (29)ARGBD (30)FLSZG (31)0E8 (32)1CD (33)0E7 (34)1C6 (35)1D4 (36)0E6 (37)0D8 (38)1C5 (39)0E (40)1D (41)STD SY-3 (42)2A (43)1D+1F
PRINT FORMATS	SPEC (A) / SI02 TO Y (2)
READ INPUT DATA	

AFTER READING 394 CASES FROM SUBFILE GCHSS1 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 25 WORDS

1 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
0 IF/COMPUTE OPERATIONS

TASK NAME NORMALIZED WITH L.O.I.
FREQUENCIES GENERAL=SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	20	5.1	5.1	5.1
FIELD SAMPLE	F	208	52.8	52.8	57.9
FIELD SAMPLE	0	166	42.1	42.1	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	56	14.2	14.2	14.2
1979 WHOLE ROCK	2.	120	30.5	30.5	44.7
SECTION 118	3.	218	55.3	55.3	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1F	1.	8	2.0	2.0	2.0
3C	2.	7	1.8	1.8	3.8
3G	3.	22	5.6	5.6	9.4
5C	4.	26	6.6	6.6	16.0
5F	5.	2	.5	.5	16.5
MCV	6.	35	8.9	8.9	25.4
5CU	7.	1	.3	.3	25.6
5CG	8.	1	.3	.3	25.9
STDMRG-1	9.	11	2.8	2.8	28.7
UNK	10.	1	.3	.3	28.9
KSMB	11.	6	1.5	1.5	30.5
KSE	12.	2	.5	.5	31.0
5D	13.	5	1.3	1.3	32.2
1C	14.	12	3.0	3.0	35.3
3E	15.	1	.3	.3	35.5
3G-D	16.	1	.3	.3	35.8
STD SY-2	17.	6	1.5	1.5	37.3
3D	18.	11	2.8	2.8	40.1
3DW	19.	3	.8	.8	40.9
3DV	20.	1	.3	.3	41.1
5BD	21.	1	.3	.3	41.4

58

22.

10

2.5

2.5

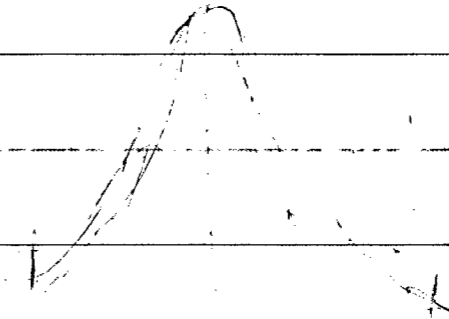
43.9

5B3	23.	1	.3	.3	44.2
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.4
ARGBK	27.	5	1.3	1.3	47.7
SFV	28.	2	.5	.5	48.2
ARGBD	29.	2	.5	.5	48.7
FLSZG	30.	3	.8	.8	49.5
0E8	31.	11	2.8	2.8	52.3
1CD	32.	47	11.9	11.9	64.2
0E7	33.	2	.5	.5	64.7
1C6	34.	22	5.6	5.6	70.3
1D4	35.	35	8.9	8.9	79.2
0E6	36.	1	.3	.3	79.4
0D8	37.	1	.3	.3	79.7
1C5	38.	3	.8	.8	80.5
0E	39.	6	1.5	1.5	82.0
1D	40.	66	16.8	16.8	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D*1F	43.	1	.3	.3	100.0
	TOTAL	394	100.0	100.0	
VALID CASES	394	MISSING CASES	0		

CONDESCRIPTIVE S102 TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL



VARIABLE SIO2

MEAN	53.530	STD ERROR	.362	STD DEV	7.177
VARIANCE	51.506	KURTOSIS	1.393	SKEWNESS	-.048
RANGE	63.220	MINIMUM	22.500	MAXIMUM	85.720
SUM	21090.690				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE TI02

MEAN	.978	STD ERROR	.046	STD DEV	.908
VARIANCE	.825	KURTOSIS	3.723	SKEWNESS	2.017
RANGE	4.690	MINIMUM	0.	MAXIMUM	4.690
SUM	385.380				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	17.188	STD ERROR	.196	STD DEV	3.882
VARIANCE	15.071	KURTOSIS	.521	SKEWNESS	-.553
RANGE	27.380	MINIMUM	.800	MAXIMUM	28.180
SUM	6771.880				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	8.283	STD ERROR	.172	STD DEV	3.409
VARIANCE	11.620	KURTOSIS	.553	SKEWNESS	.118
RANGE	19.450	MINIMUM	.150	MAXIMUM	19.600
SUM	3263.660				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE FEO

MEAN	7.519	STD ERROR	.276	STD DEV	2.327
VARIANCE	5.415	KURTOSIS	2.523	SKEWNESS	.013
RANGE	14.910	MINIMUM	1.410	MAXIMUM	16.320

SUM 533.850

VALID OBSERVATIONS - 71

MISSING OBSERVATIONS - 323

VARIABLE MNO

MEAN	.112	STD ERROR	.003	STD DEV	.065
VARIANCE	.004	KURTOSIS	6.567	SKEWNESS	1.881
RANGE	.520	MINIMUM	.010	MAXIMUM	.530
SUM	44.290				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE MGO

MEAN	4.033	STD ERROR	.184	STD DEV	3.651
VARIANCE	13.330	KURTOSIS	11.369	SKEWNESS	2.721
RANGE	30.740	MINIMUM	.300	MAXIMUM	31.040
SUM	1589.090				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE CAO

MEAN	4.485	STD ERROR	.253	STD DEV	5.030
VARIANCE	25.303	KURTOSIS	3.063	SKEWNESS	1.417
RANGE	35.230	MINIMUM	.120	MAXIMUM	35.350
SUM	1767.260				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE NA2O

MEAN	1.507	STD ERROR	.066	STD DEV	1.304
VARIANCE	1.701	KURTOSIS	.059	SKEWNESS	1.085
RANGE	5.400	MINIMUM	.100	MAXIMUM	5.500
SUM	593.830				

VALID OBSERVATIONS = 394 MISSING OBSERVATIONS = 0

VARIABLE K20

MEAN	2.848	STD ERROR	.083	STD DEV	1.654
VARIANCE	2.735	KURTOSIS	-1.133	SKEWNESS	-.477
RANGE	6.430	MINIMUM	0.	MAXIMUM	6.430
SUM	1121.990				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.202	STD ERROR	.007	STD DEV	.132
VARIANCE	.017	KURTOSIS	3.355	SKEWNESS	1.836
RANGE	.770	MINIMUM	.040	MAXIMUM	.810
SUM	79.780				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.633	STD ERROR	.087	STD DEV	1.438
VARIANCE	2.067	KURTOSIS	34.134	SKEWNESS	5.339
RANGE	13.050	MINIMUM	.010	MAXIMUM	13.060
SUM	173.360				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE LOI

MEAN	5.035	STD ERROR	.158	STD DEV	3.131
VARIANCE	9.804	KURTOSIS	8.568	SKEWNESS	1.809
RANGE	28.280	MINIMUM	0.	MAXIMUM	28.280
SUM	1983.700				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE BA

MEAN	1605.208	STD ERROR	363.597	STD DEV	6018.606
VARIANCE	*****	KURTOSIS	185.038	SKEWNESS	18.961
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	439827.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CU

MEAN	237.580	STD ERROR	111.018	STD DEV	1837.682
VARIANCE	*****	KURTOSIS	254.677	SKEWNESS	15.724
RANGE	29996.000	MINIMUM	4.000	MAXIMUM	30000.000
SUM	65097.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE PB

MEAN	293.931	STD ERROR	121.036	STD DEV	2003.510
VARIANCE	*****	KURTOSIS	111.897	SKEWNESS	10.024
RANGE	25998.000	MINIMUM	2.000	MAXIMUM	26000.000
SUM	80537.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE ZN

MEAN	411.839	STD ERROR	140.421	STD DEV	2324.389
VARIANCE	*****	KURTOSIS	120.557	SKEWNESS	10.287
RANGE	30980.000	MINIMUM	20.000	MAXIMUM	31000.000
SUM	112844.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CD

MEAN	1.217	STD ERROR	245.749	STD DEV	12.392
VARIANCE	153.553	KURTOSIS	0.	SKEWNESS	15.339
RANGE	200.000	MINIMUM		MAXIMUM	200.000
SUM	333.400				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE AG

MEAN	.692	STD ERROR	71.172	STD DEV	2.845
VARIANCE	8.096	KURTOSIS	0.	SKEWNESS	7.964
RANGE	32.000	MINIMUM		MAXIMUM	32.000
SUM	189.600				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE CR

MEAN	134.077	STD ERROR	8.796	STD DEV	145.604
VARIANCE	21200.401	KURTOSIS	23.751	SKEWNESS	4.395
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	36737.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE V

MEAN	130.438	STD ERROR	5.129	STD DEV	84.898
VARIANCE	7207.712	KURTOSIS	21.419	SKEWNESS	4.015
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	35740.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE CO

MEAN	35.978	STD ERROR	.854	STD DEV	14.132
VARIANCE	199.721	KURTOSIS	6.356	SKEWNESS	2.077
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9858.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE NI

MEAN	56.675	STD ERROR	4.818	STD DEV	79.752
VARIANCE	6360.411	KURTOSIS	47.527	SKEWNESS	6.134
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15529.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE MO

MEAN	3.828	STD ERROR	.080	STD DEV	1.327
VARIANCE	1.762	KURTOSIS	28.852	SKEWNESS	3.992
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1049.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE RB

MEAN	132.168	STD ERROR	3.630	STD DEV	60.086
VARIANCE	3610.287	KURTOSIS	.168	SKEWNESS	-1.013
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	36214.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE SR

MEAN	132.328	STD ERROR	13.018	STD DEV	215.494
VARIANCE	46437.862	KURTOSIS	1.15840	SKEWNESS	9.186
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	36258.000				

VALID OBSERVATIONS = 274 MISSING OBSERVATIONS = 120

VARIABLE ZR

MEAN	153.036	STD ERROR	7.306	STD DEV	77.320
VARIANCE	5978.323	KURTOSIS	2.499	SKEWNESS	1.293
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	17140.000				

VALID OBSERVATIONS = 112 MISSING OBSERVATIONS = 282

VARIABLE Y

MEAN	19.027	STD ERROR	6.680	STD DEV	70.696
VARIANCE	4997.990	KURTOSIS	93.246	SKEWNESS	9.331
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2131.000				

VALID OBSERVATIONS = 112 MISSING OBSERVATIONS = 282

SAVE FILE

FILE GCHSS1 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	GROUP	SEQ	ROCKCODE	SIO2	TIO2	AL2O3
FE203	FEO	MNO	MGO	CAO	NA2O	K2O	P2O5	S	LOI
BA	CU	PB	ZN	CO	AG	CR	V	CO	NI
MO	RB	SR	ZR	Y					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS1	394

FINISH

NORMAL END OF JOB.
28 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21,1979

DEFAULT SPACE ALLOCATION..	ALLOWS FOR..	23 TRANSFORMATIONS
WORKSPACE 3584 WORDS		46 RECODE VALUES + LAG VARIABLES
TRANSPACE 512 WORDS		46 IF/COMPUTE OPERATIONS

RUN NAME	CYPRUS ANVIL MINING CORPORATION
GET FILE	GCHSS3

FILE GCHSS3 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS3	374

*SELECT IF	(ROCKCODE EQ 2)
TASK NAME	ROCK CODE 2
CONDESCRIPTIVE	SI02 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics

Unit 3C

FILE # 3

ROCK CODE 2

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	49.441	STD ERROR	.571	STD DEV	1.510
VARIANCE	2.280	KURTOSIS	.244	SKEWNESS	-.353
RANGE	4.590	MINIMUM	46.910	MAXIMUM	51.500
SUM	346.090				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE TIO2

MEAN	2.077	STD ERROR	.313	STD DEV	.827
VARIANCE	.684	KURTOSIS	2.374	SKEWNESS	1.327
RANGE	2.600	MINIMUM	1.090	MAXIMUM	3.690
SUM	14.540				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE AL2O3

MEAN	15.150	STD ERROR	.502	STD DEV	1.329
VARIANCE	1.765	KURTOSIS	5.845	SKEWNESS	-2.342
RANGE	3.920	MINIMUM	12.220	MAXIMUM	16.140
SUM	106.050				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE FE2O3

MEAN	12.330	STD ERROR	.319	STD DEV	.845
VARIANCE	.714	KURTOSIS	-.840	SKEWNESS	.562
RANGE	2.340	MINIMUM	11.280	MAXIMUM	13.620
SUM	86.310				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000.

ROCK CODE 2

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.160	STD ERROR	.006	STD DEV	.016
VARIANCE	.000	KURTOSIS	-1.988	SKEWNESS	-.321
RANGE	.040	MINIMUM	.140	MAXIMUM	.180
SUM	1.120				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.149	STD ERROR	.514	STD DEV	1.359
VARIANCE	1.847	KURTOSIS	3.213	SKEWNESS	1.335
RANGE	4.410	MINIMUM	5.450	MAXIMUM	9.860
SUM	50.040				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.013	STD ERROR	.433	STD DEV	1.145
VARIANCE	1.312	KURTOSIS	2.980	SKEWNESS	1.563
RANGE	3.510	MINIMUM	8.810	MAXIMUM	12.320
SUM	70.090				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.173	STD ERROR	.239	STD DEV	.631
VARIANCE	.398	KURTOSIS	-.797	SKEWNESS	.033
RANGE	1.840	MINIMUM	2.260	MAXIMUM	4.100
SUM	22.210				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 0

ROCK CODE 2

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.293	STD ERROR	.061	STD DEV	.162
VARIANCE	.026	KURTOSIS	-1.219	SKEWNESS	-.312
RANGE	.450	MINIMUM	.050	MAXIMUM	.500
SUM	2.050				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.216	STD ERROR	.027	STD DEV	.072
VARIANCE	.005	KURTOSIS	2.089	SKEWNESS	-.337
RANGE	.240	MINIMUM	.090	MAXIMUM	.330
SUM	1.510				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

VARIABLE S

MEAN	.074	STD ERROR	.035	STD DEV	.092
VARIANCE	.009	KURTOSIS	1.219	SKEWNESS	1.349
RANGE	.240	MINIMUM	.010	MAXIMUM	.250
SUM	.520				

VALID OBSERVATIONS = 7 MISSING OBSERVATIONS = 0

TRANSPACE REQUIRED... 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 4)
TASK NAME ROCK CODE 4
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics

Unit 5C

FILE 3

ROCK CODE 4

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE S102

MEAN	50.447	STD ERROR	.824	STD DEV	4.200
VARIANCE	17.637	KURTOSIS	1.819	SKEWNESS	1.450
RANGE	16.970	MINIMUM	45.320	MAXIMUM	62.290
SUM	1311.630				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.669	STD ERROR	.212	STD DEV	1.079
VARIANCE	1.163	KURTOSIS	2.341	SKEWNESS	1.389
RANGE	4.690	MINIMUM	.160	MAXIMUM	4.850
SUM	43.400				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.345	STD ERROR	.645	STD DEV	3.291
VARIANCE	10.831	KURTOSIS	1.082	SKEWNESS	-.526
RANGE	14.380	MINIMUM	7.050	MAXIMUM	21.430
SUM	398.960				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.359	STD ERROR	.549	STD DEV	2.798
VARIANCE	7.831	KURTOSIS	.668	SKEWNESS	-.107
RANGE	12.483	MINIMUM	6.367	MAXIMUM	18.850
SUM	321.341				

OK

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.301	STD ERROR	1.047	STD DEV	2.769
VARIANCE	7.668	KURTOSIS	.909	SKEWNESS	-1.216
RANGE	7.680	MINIMUM	2.130	MAXIMUM	9.810
SUM	51.110				

VALID OBSERVATIONS - 7 MISSING OBSERVATIONS - 19

VARIABLE MNO

MEAN	.137	STD ERROR	.009	STD DEV	.046
VARIANCE	.002	KURTOSIS	-.389	SKEWNESS	-.599
RANGE	.180	MINIMUM	.040	MAXIMUM	.220
SUM	3.570				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	8.536	STD ERROR	.915	STD DEV	4.665
VARIANCE	21.765	KURTOSIS	4.892	SKEWNESS	2.067
RANGE	20.520	MINIMUM	3.400	MAXIMUM	23.920
SUM	221.930				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	7.168	STD ERROR	.664	STD DEV	3.387
VARIANCE	11.469	KURTOSIS	-1.208	SKEWNESS	-.148
RANGE	10.170	MINIMUM	1.840	MAXIMUM	12.010
SUM	186.380				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	3.249	STD ERROR	.296	STD DEV	1.508
VARIANCE	2.275	KURTOSIS	-.373	SKEWNESS	-.297
RANGE	5.460	MINIMUM	.210	MAXIMUM	5.670
SUM	84.470				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

ROCK CODE 4

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.983	STD ERROR	.220	STD DEV	1.124
VARIANCE	1.264	KURTOSIS	1.919	SKEWNESS	1.534
RANGE	4.090	MINIMUM	.030	MAXIMUM	4.120
SUM	25.550				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.324	STD ERROR	.037	STD DEV	.191
VARIANCE	.037	KURTOSIS	-.019	SKEWNESS	1.150
RANGE	.600	MINIMUM	.130	MAXIMUM	.730
SUM	8.430				

VALID OBSERVATIONS - 26 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.036	STD ERROR	.006	STD DEV	.027
VARIANCE	.001	KURTOSIS	1.838	SKEWNESS	1.332
RANGE	.100	MINIMUM	.010	MAXIMUM	.110
SUM	.640				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 8

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 6)
TASK NAME ROCK CODE 6
CONDESCRIPTIVE S102 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics UNIT MCV

FILE 3

ROCK CODE 6

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SI02

MEAN	48.649	STD ERROR	.403	STD DEV	2.169
VARIANCE	4.703	KURTOSIS	.947	SKEWNESS	.016
RANGE	10.110	MINIMUM	43.770	MAXIMUM	53.880
SUM	1410.820				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	2.198	STD ERROR	.189	STD DEV	1.020
VARIANCE	1.041	KURTOSIS	-.745	SKEWNESS	.335
RANGE	3.670	MINIMUM	.530	MAXIMUM	4.200
SUM	63.730				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.548	STD ERROR	.377	STD DEV	2.033
VARIANCE	4.132	KURTOSIS	1.290	SKEWNESS	-.220
RANGE	9.790	MINIMUM	10.640	MAXIMUM	20.430
SUM	450.890				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	13.501	STD ERROR	.321	STD DEV	1.729
VARIANCE	2.988	KURTOSIS	.271	SKEWNESS	-.263
RANGE	7.805	MINIMUM	9.175	MAXIMUM	16.980
SUM	391.532				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	8.861	STD ERROR	.304	STD DEV	1.360
VARIANCE	1.850	KURTOSIS	4.664	SKEWNESS	-1.614
RANGE	6.500	MINIMUM	4.540	MAXIMUM	11.040
SUM	177.220				

VALID OBSERVATIONS - 20 MISSING OBSERVATIONS - 9

VARIABLE MNO

MEAN	.139	STD ERROR	.009	STD DEV	.046
VARIANCE	.002	KURTOSIS	1.404	SKEWNESS	-1.039
RANGE	.190	MINIMUM	.020	MAXIMUM	.210
SUM	4.020				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.975	STD ERROR	.726	STD DEV	3.911
VARIANCE	15.298	KURTOSIS	10.466	SKEWNESS	2.860
RANGE	20.900	MINIMUM	3.300	MAXIMUM	24.200
SUM	231.270				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	7.807	STD ERROR	.594	STD DEV	3.199
VARIANCE	10.237	KURTOSIS	.245	SKEWNESS	-.199
RANGE	13.870	MINIMUM	1.110	MAXIMUM	14.980
SUM	226.400				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	3.222	STD ERROR	.270	STD DEV	1.455
VARIANCE	2.117	KURTOSIS	-.536	SKEWNESS	-.760
RANGE	5.040	MINIMUM	.360	MAXIMUM	5.400
SUM	93.450				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

ROCK CODE 6

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	1.194	STD ERROR	.286	STD DEV	1.539
VARIANCE	2.367	KURTOSIS	4.441	SKEWNESS	2.117
RANGE	6.530	MINIMUM	0.	MAXIMUM	6.530
SUM	34.620				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.451	STD ERROR	.026	STD DEV	.141
VARIANCE	.020	KURTOSIS	1.208	SKEWNESS	1.045
RANGE	.610	MINIMUM	.250	MAXIMUM	.860
SUM	13.090				

VALID OBSERVATIONS - 29 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.150	STD ERROR	.091	STD DEV	.273
VARIANCE	.074	KURTOSIS	8.457	SKEWNESS	2.882
RANGE	.850	MINIMUM	.020	MAXIMUM	.870
SUM	1.350				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 20

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 25)
TASK NAME ROCK CODE 25
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

DECEMBER 27, 1979

Simple Statistics

UNIT ARGBS

File 3

ROCK CODE 25
FILE GCHSS3

(CREATION DATE = 12/27/79)

NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE S102

MEAN	48.376	STD ERROR	.538	STD DEV	1.202
VARIANCE	1.445	KURTOSIS	-1.497	SKEWNESS	-.732
RANGE	2.850	MINIMUM	46.690	MAXIMUM	49.540
SUM	241.880				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.540	STD ERROR	.196	STD DEV	.439
VARIANCE	.193	KURTOSIS	1.655	SKEWNESS	1.131
RANGE	1.150	MINIMUM	1.090	MAXIMUM	2.240
SUM	7.700				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.790	STD ERROR	.461	STD DEV	1.030
VARIANCE	1.061	KURTOSIS	-.320	SKEWNESS	-.876
RANGE	2.580	MINIMUM	14.260	MAXIMUM	16.840
SUM	78.950				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	12.462	STD ERROR	.836	STD DEV	1.870
VARIANCE	3.498	KURTOSIS	-1.578	SKEWNESS	.896
RANGE	4.147	MINIMUM	10.984	MAXIMUM	15.131
SUM	62.312				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.997	STD ERROR	.493	STD DEV	.986
VARIANCE	.971	KURTOSIS	1.198	SKEWNESS	-.164
RANGE	2.400	MINIMUM	6.770	MAXIMUM	9.170
SUM	31.990				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 1

VARIABLE MNO

MEAN	.200	STD ERROR	.033	STD DEV	.074
VARIANCE	.005	KURTOSIS	4.404	SKEWNESS	2.063
RANGE	.180	MINIMUM	.150	MAXIMUM	.330
SUM	1.000				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	8.188	STD ERROR	.815	STD DEV	1.822
VARIANCE	3.320	KURTOSIS	.181	SKEWNESS	.530
RANGE	4.830	MINIMUM	5.990	MAXIMUM	10.820
SUM	40.940				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.574	STD ERROR	.767	STD DEV	1.715
VARIANCE	2.943	KURTOSIS	-1.897	SKEWNESS	-.383
RANGE	4.070	MINIMUM	8.320	MAXIMUM	12.390
SUM	52.870				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	2.896	STD ERROR	.294	STD DEV	.656
VARIANCE	.431	KURTOSIS	-1.575	SKEWNESS	-.660
RANGE	1.580	MINIMUM	1.990	MAXIMUM	3.570
SUM	14.480				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

ROCK CODE 25

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.524	STD ERROR	.132	STD DEV	.296
VARIANCE	.088	KURTOSIS	-3.058	SKEWNESS	.576
RANGE	.620	MINIMUM	.260	MAXIMUM	.880
SUM	2.620				

VALID OBSERVATIONS = 5 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.160	STD ERROR	.021	STD DEV	.046
VARIANCE	.002	KURTOSIS	-1.894	SKEWNESS	-.226
RANGE	.110	MINIMUM	.100	MAXIMUM	.210
SUM	.800				

VALID OBSERVATIONS = 5 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

TRANSPACE REQUIRED.. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 27)
TASK NAME ROCK CODE 27
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27 1979

Simple Statistics

UNIT ARGBK

FILE 3

VARIABLE SIO2

MEAN	46.492	STD ERROR	1.357	STD DEV	3.033
VARIANCE	9.201	KURTOSIS	-2.331	SKEWNESS	.449
RANGE	7.090	MINIMUM	43.230	MAXIMUM	50.320
SUM	232.460				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	1.136	STD ERROR	.327	STD DEV	.732
VARIANCE	1.535	KURTOSIS	.108	SKEWNESS	-.691
RANGE	1.870	MINIMUM	.050	MAXIMUM	1.920
SUM	5.680				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE AL2O3

MEAN	12.242	STD ERROR	3.163	STD DEV	7.072
VARIANCE	50.015	KURTOSIS	2.324	SKEWNESS	-1.141
RANGE	19.250	MINIMUM	.860	MAXIMUM	20.110
SUM	61.210				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

MEAN	12.081	STD ERROR	1.379	STD DEV	3.083
VARIANCE	9.503	KURTOSIS	.906	SKEWNESS	-.904
RANGE	7.992	MINIMUM	7.326	MAXIMUM	15.318
SUM	60.407				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	6.460	STD ERROR	.872	STD DEV	1.744
VARIANCE	3.040	KURTOSIS	-5.804	SKEWNESS	-.014
RANGE	3.250	MINIMUM	4.810	MAXIMUM	8.060
SUM	25.840				

VALID OBSERVATIONS - 4 MISSING OBSERVATIONS - 1

VARIABLE MNO

MEAN	.154	STD ERROR	.018	STD DEV	.040
VARIANCE	.002	KURTOSIS	-.950	SKEWNESS	.351
RANGE	.100	MINIMUM	.110	MAXIMUM	.210
SUM	.770				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE MGD

MEAN	13.554	STD ERROR	5.190	STD DEV	11.606
VARIANCE	134.691	KURTOSIS	2.942	SKEWNESS	1.743
RANGE	28.010	MINIMUM	5.240	MAXIMUM	33.250
SUM	67.770				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	12.116	STD ERROR	1.945	STD DEV	4.350
VARIANCE	18.921	KURTOSIS	.326	SKEWNESS	.709
RANGE	11.220	MINIMUM	7.400	MAXIMUM	18.620
SUM	60.580				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	2.256	STD ERROR	.739	STD DEV	1.654
VARIANCE	2.734	KURTOSIS	-1.511	SKEWNESS	-.312
RANGE	4.110	MINIMUM	.110	MAXIMUM	4.220
SUM	11.280				

VALID OBSERVATIONS - 5 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	.372	STD ERROR	.168	STD DEV	.376
VARIANCE	.141	KURTOSIS	1.572	SKEWNESS	1.339
RANGE	.930	MINIMUM	.050	MAXIMUM	.980
SUM	1.860				

VALID OBSERVATIONS = 5 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.170	STD ERROR	.036	STD DEV	.081
VARIANCE	.006	KURTOSIS	2.415	SKEWNESS	1.145
RANGE	.220	MINIMUM	.080	MAXIMUM	.300
SUM	.850				

VALID OBSERVATIONS = 5 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 29)
TASK NAME ROCK CODE 29
CONDESCRIPTIVE SIO2 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics

UNIT ARGBP

FILE 3

ROCK CODE 29

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE S102

MEAN	48.565	STD ERROR	1.355	STD DEV	1.916
VARIANCE	5.672	KURTOSIS	0	SKEWNESS	0
RANGE	2.710	MINIMUM	47.210	MAXIMUM	49.920
SUM	97.130				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	1.505	STD ERROR	.465	STD DEV	.658
VARIANCE	.432	KURTOSIS	0	SKEWNESS	0
RANGE	.930	MINIMUM	1.040	MAXIMUM	1.970
SUM	3.010				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	15.740	STD ERROR	.900	STD DEV	1.273
VARIANCE	1.620	KURTOSIS	0	SKEWNESS	0
RANGE	1.800	MINIMUM	14.840	MAXIMUM	16.640
SUM	31.480				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	11.886	STD ERROR	2.334	STD DEV	3.301
VARIANCE	10.896	KURTOSIS	0	SKEWNESS	0
RANGE	4.668	MINIMUM	9.552	MAXIMUM	14.220
SUM	23.772				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	8.360	STD ERROR	.980	STD DEV	1.386
VARIANCE	1.921	KURTOSIS	0	SKEWNESS	0
RANGE	1.960	MINIMUM	7.380	MAXIMUM	9.340
SUM	16.720				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE MNO

MEAN	.190	STD ERROR	.030	STD DEV	.042
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	0.
RANGE	.060	MINIMUM	.160	MAXIMUM	.220
SUM	.380				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	7.685	STD ERROR	.215	STD DEV	.304
VARIANCE	.092	KURTOSIS	0.	SKEWNESS	0.
RANGE	.430	MINIMUM	7.470	MAXIMUM	7.900
SUM	15.370				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.115	STD ERROR	.225	STD DEV	.318
VARIANCE	.101	KURTOSIS	0.	SKEWNESS	0.
RANGE	.450	MINIMUM	10.890	MAXIMUM	11.340
SUM	22.230				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	3.480	STD ERROR	.470	STD DEV	.665
VARIANCE	.442	KURTOSIS	0.	SKEWNESS	0.
RANGE	.940	MINIMUM	3.010	MAXIMUM	3.950
SUM	6.960				

VALID OBSERVATIONS - 2 MISSING OBSERVATIONS - 0

ROCK CODE 29

FILE GCH983 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	.545	STD ERROR	.445	STD DEV	.629
VARIANCE	.396	KURTOSIS	0.	SKEWNESS	0.
RANGE	.890	MINIMUM	.100	MAXIMUM	.990
SUM	1.090				

VALID OBSERVATIONS = 2 MISSING OBSERVATIONS = 0

VARIABLE P205

MEAN	.225	STD ERROR	.005	STD DEV	.007
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	0.
RANGE	.010	MINIMUM	.220	MAXIMUM	.230
SUM	.450				

VALID OBSERVATIONS = 2 MISSING OBSERVATIONS = 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (ROCKCODE EQ 35)
TASK NAME ROCK CODE 35
CONDESCRIPTIVE S102 TO S

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

December 27, 1979

Simple Statistics

UNIT 1D4

FILE 3

ROCK CODE 35

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE SIO2

MEAN	62.505	STD ERROR	.729	STD DEV	3.992
VARIANCE	15.937	KURTOSIS	.015	SKEWNESS	.936
RANGE	14.460	MINIMUM	56.910	MAXIMUM	71.370
SUM	1875.140				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	.457	STD ERROR	.026	STD DEV	.143
VARIANCE	.021	KURTOSIS	1.844	SKEWNESS	.701
RANGE	.710	MINIMUM	.160	MAXIMUM	.870
SUM	13.710				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE AL2O3

MEAN	19.521	STD ERROR	.626	STD DEV	3.430
VARIANCE	11.766	KURTOSIS	2.908	SKEWNESS	-1.436
RANGE	16.520	MINIMUM	8.120	MAXIMUM	24.640
SUM	585.640				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

MEAN	10.274	STD ERROR	.412	STD DEV	2.259
VARIANCE	5.101	KURTOSIS	1.352	SKEWNESS	1.165
RANGE	9.000	MINIMUM	6.870	MAXIMUM	15.870
SUM	308.220				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 35

FILE GCHSS3

(CREATION DATE = 12/27/79)

NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.099	STD ERROR	.014	STD DEV	.076
VARIANCE	.006	KURTOSIS	21.065	SKEWNESS	4.274
RANGE	.420	MINIMUM	.050	MAXIMUM	.470
SUM	2.960				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	1.661	STD ERROR	.086	STD DEV	.473
VARIANCE	.224	KURTOSIS	.167	SKEWNESS	-.582
RANGE	1.940	MINIMUM	.530	MAXIMUM	2.470
SUM	49.820				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	.494	STD ERROR	.027	STD DEV	.149
VARIANCE	.022	KURTOSIS	.497	SKEWNESS	.242
RANGE	.700	MINIMUM	.130	MAXIMUM	.830
SUM	14.820				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	.374	STD ERROR	.016	STD DEV	.090
VARIANCE	.008	KURTOSIS	-.134	SKEWNESS	.184
RANGE	.360	MINIMUM	.200	MAXIMUM	.560
SUM	11.230				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

ROCK CODE 35

FILE GCHSS3 (CREATION DATE = 12/27/79) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	4.324	STD ERROR	.098	STD DEV	.535
VARIANCE	.287	KURTOSIS	4.351	SKEWNESS	-1.733
RANGE	2.600	MINIMUM	2.420	MAXIMUM	5.020
SUM	129.710				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.138	STD ERROR	.011	STD DEV	.060
VARIANCE	.004	KURTOSIS	5.566	SKEWNESS	1.898
RANGE	.310	MINIMUM	.050	MAXIMUM	.360
SUM	4.140				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	1.683	STD ERROR	.321	STD DEV	1.757
VARIANCE	3.088	KURTOSIS	4.060	SKEWNESS	1.815
RANGE	7.820	MINIMUM	.090	MAXIMUM	7.910
SUM	50.480				

VALID OBSERVATIONS - 30 MISSING OBSERVATIONS - 0

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

DEFAULT SPACE ALLOCATION..	ALLOWS FOR..	23 TRANSFORMATIONS
WORKSPACE 3584 WORDS		46 RECODE VALUES + LAG VARIABLES
TRANSPACE 512 WORDS		46 IF/COMPUTE OPERATIONS

RUN NAME	CYPRUS ANVIL MINING CORPORATION
GET FILE	GCHSS3

FILE GCHSS3 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS3	374

COMPUTE	NCODE=9
IF	(ROCKCODE EQ 2) NCODE=1
IF	(ROCKCODE EQ 4) NCODE=2
TASK NAME	ROCK CODES 2 & 4
T-TEST	GROUPS= NCODE(1,2)/ VARIABLES= S102 TO S

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

T - T E S T

GROUP 1 - NCODE EQ 1.
GROUP 2 - NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *						
					* F VALUE	* 2-TAIL PROB.	* T VALUE	* DEGREES OF FREEDOM	* 2-TAIL PROB.	* T VALUE	* DEGREES OF FREEDOM	* 2-TAIL PROB.		
SIO2	GROUP 1	7	49.4414	1.510	.571									
	GROUP 2	26	50.4473	4.200	.824	7.74	.020	-.62	31	.542	-1.00	27.94	.324	
TI02	GROUP 1	7	2.0771	.827	.313									
	GROUP 2	26	1.6692	1.079	.212	1.70	.524	.93	31	.362	1.08	12.14	.301	
AL203	GROUP 1	7	15.1500	1.329	.502									
	GROUP 2	26	15.3446	3.291	.645	6.14	.034	-.15	31	.880	-.24	25.50	.814	
FE203	GROUP 1	7	12.3300	.845	.319									
	GROUP 2	26	12.3593	2.798	.549	10.97	.009	-.03	31	.979	-.05	30.31	.964	
FEO	GROUP 1	0	0.	0.	0.									
	GROUP 2	7	7.3014	2.769	1.047	0.	1.000	-6.98	6	.000	-6.98	6.00	.000	
MNO	GROUP 1	7	.1600	.016	.006									
	GROUP 2	26	.1373	.046	.009	8.03	.018	1.26	31	.216	2.07	28.27	.048	
MGO	GROUP 1	7	7.1486	1.359	.514									
	GROUP 2	26	8.5358	4.665	.915	11.79	.007	-.77	31	.447	-1.32	30.58	.196	

----- T - T E S T -----

GROUP 1 - NCODE EQ 1.
 GROUP 2 - NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	*	* POOLED VARIANCE ESTIMATE *		* SEPARATE VARIANCE ESTIMATE *							
						F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.		
CAO					*										
GROUP 1	7	10.0129	1.145	.433	*										
GROUP 2	26	7.1685	3.387	.664	*	8.74	.015	2.17	31	.038	3.59	28.97	.001		
NA20					*										
GROUP 1	7	3.1729	.631	.239	*										
GROUP 2	26	3.2488	1.508	.296	*	5.71	.041	-.13	31	.898	-.20	24.66	.843		
K20					*										
GROUP 1	7	.2929	.162	.061	*										
GROUP 2	26	.9827	1.124	.220	*	48.20	.000	-1.60	31	.120	-3.01	28.30	.005		
P205					*										
GROUP 1	7	.2157	.072	.027	*										
GROUP 2	26	.3242	.191	.037	*	7.13	.024	-1.46	31	.154	-2.35	27.14	.027		
S					*										
GROUP 1	7	.0743	.092	.035	*										
GROUP 2	18	.0356	.027	.006	*	11.47	.000	1.65	23	.112	1.09	6.41	.317		

TRANSPACE REQUIRED. 75 WORDS
3 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
12 IF/COMPUTE OPERATIONS

FINISH

NORMAL END OF JOB.
8 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

DEFAULT SPACE ALLOCATION..	ALLOWS FOR..	23 TRANSFORMATIONS
WORKSPACE 3584 WORDS		46 RECODE VALUES + LAG VARIABLES
TRANSPACE 512 WORDS		46 IF/COMPUTE OPERATIONS

RUN NAME	CYPRUS ANVIL MINING CORPORATION
GET FILE	GCHSS1

FILE GCHSS1 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS1	374

```

COMPUTE NEWVAR = 1000
COMPUTE NEWSEQ = NEWVAR * GROUP + SEQ
COMPUTE NCODE=9
IF ((ROCKCODE EQ 18) AND NEWSEQ NE 2057 AND 2061) NCODE=1
IF (ROCKCODE EQ 19) NCODE=2
*SELECT IF (NCODE EQ 1)
TASK NAME ROCK CODE 18 - EXCLUDING SEQ NO'S 2057 & 2061
CONDESCRIPTIVE SIQ2 TO LOI

```

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS	ALL
------------	-----

VARIABLE SI02

MEAN	51.270	STD ERROR	.753	STD DEV	2.258
VARIANCE	5.100	KURTOSIS	-1.054	SKEWNESS	.124
RANGE	6.640	MINIMUM	47.870	MAXIMUM	54.510
SUM	461.430				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.461	STD ERROR	.079	STD DEV	.237
VARIANCE	.056	KURTOSIS	.866	SKEWNESS	.130
RANGE	.800	MINIMUM	.100	MAXIMUM	.900
SUM	4.150				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.142	STD ERROR	.507	STD DEV	1.522
VARIANCE	2.316	KURTOSIS	3.202	SKEWNESS	1.275
RANGE	5.570	MINIMUM	14.960	MAXIMUM	20.530
SUM	154.280				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	7.040	STD ERROR	.343	STD DEV	1.029
VARIANCE	1.060	KURTOSIS	2.554	SKEWNESS	1.203
RANGE	3.690	MINIMUM	5.580	MAXIMUM	9.270
SUM	63.360				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.086	STD ERROR	.006	STD DEV	.017
VARIANCE	.000	KURTOSIS	-.929	SKEWNESS	.338
RANGE	.050	MINIMUM	.060	MAXIMUM	.110
SUM	.770				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.540	STD ERROR	.203	STD DEV	.609
VARIANCE	.371	KURTOSIS	1.116	SKEWNESS	1.176
RANGE	1.910	MINIMUM	2.890	MAXIMUM	4.800
SUM	31.860				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.964	STD ERROR	1.181	STD DEV	3.543
VARIANCE	12.550	KURTOSIS	-.680	SKEWNESS	.326
RANGE	10.370	MINIMUM	6.080	MAXIMUM	16.450
SUM	98.680				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.381	STD ERROR	.239	STD DEV	.718
VARIANCE	.516	KURTOSIS	-1.101	SKEWNESS	.093
RANGE	2.090	MINIMUM	.300	MAXIMUM	2.390
SUM	12.430				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.134	STD ERROR	.273	STD DEV	.818
VARIANCE	.668	KURTOSIS	1.214	SKEWNESS	-.852
RANGE	2.810	MINIMUM	1.500	MAXIMUM	4.310
SUM	28.210				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.182	STD ERROR	.028	STD DEV	.085
VARIANCE	.007	KURTOSIS	5.369	SKEWNESS	2.320
RANGE	.260	MINIMUM	.130	MAXIMUM	.390
SUM	1.640				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	4.802	STD ERROR	1.435	STD DEV	4.304
VARIANCE	18.521	KURTOSIS	1.205	SKEWNESS	1.340
RANGE	12.610	MINIMUM	1.150	MAXIMUM	13.760
SUM	43.220				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

CYPRUS ANVIL MINING CORPORATION
ROCK CODE 18 - EXCLUDING SEQ NO'S 2057 & 2061

02/28/80

PAGE 5

TRANSPACE REQUIRED. 150 WORDS
6 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
29 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE EQ 2)
TASK NAME ROCK CODE 19
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE S102

MEAN	52.107	STD ERROR	1.564	STD DEV	2.709
VARIANCE	7.340	KURTOSIS	0.	SKEWNESS	-1.576
RANGE	5.030	MINIMUM	49.010	MAXIMUM	54.040
SUM	156.320				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE T102

MEAN	.467	STD ERROR	.044	STD DEV	.076
VARIANCE	.006	KURTOSIS	0.	SKEWNESS	.935
RANGE	.150	MINIMUM	.400	MAXIMUM	.550
SUM	1.400				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE AL203

MEAN	15.873	STD ERROR	1.400	STD DEV	2.424
VARIANCE	5.878	KURTOSIS	0.	SKEWNESS	1.552
RANGE	4.520	MINIMUM	14.120	MAXIMUM	18.640
SUM	47.620				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FE203

MEAN	6.543	STD ERROR	.838	STD DEV	1.451
VARIANCE	2.107	KURTOSIS	0.	SKEWNESS	-.854
RANGE	2.860	MINIMUM	4.970	MAXIMUM	7.830
SUM	19.630				

VALID OBSERVATIONS = 3 MISSING OBSERVATIONS = 0

VARIABLE FE0

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.063	STD ERROR	.007	STD DEV	.012
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.020	MINIMUM	.050	MAXIMUM	.070
SUM	.190				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.887	STD ERROR	.760	STD DEV	1.316
VARIANCE	1.732	KURTOSIS	0.	SKEWNESS	.657
RANGE	2.610	MINIMUM	2.680	MAXIMUM	5.290
SUM	11.660				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	13.343	STD ERROR	2.797	STD DEV	4.845
VARIANCE	23.476	KURTOSIS	0.	SKEWNESS	.613
RANGE	9.620	MINIMUM	8.870	MAXIMUM	18.490
SUM	40.030				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.327	STD ERROR	.432	STD DEV	.748
VARIANCE	.559	KURTOSIS	0.	SKEWNESS	1.732
RANGE	1.300	MINIMUM	.890	MAXIMUM	2.190
SUM	3.980				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.870	STD ERROR	.255	STD DEV	.442
VARIANCE	.196	KURTOSIS	0.	SKEWNESS	-1.131
RANGE	.860	MINIMUM	3.380	MAXIMUM	4.240
SUM	11.610				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.200	STD ERROR	.025	STD DEV	.044
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	-1.630
RANGE	.080	MINIMUM	.150	MAXIMUM	.230
SUM	.600				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	2.323	STD ERROR	1.700	STD DEV	2.944
VARIANCE	8.669	KURTOSIS	0.	SKEWNESS	1.718
RANGE	5.220	MINIMUM	.500	MAXIMUM	5.720
SUM	6.970				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK_CODE_18_VS_19
T-TEST GROUPS= NCODE(1,2)/ VARIABLES= S102 TO S

***** I-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

T - T E S T

GROUP 1 = NCODE EQ 1.
 GROUP 2 = NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *							
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.			
SI02	GROUP 1	9	51.2700	2.258	.753										
	GROUP 2	3	52.1067	2.709	1.564	1.44	.585	-.53	10	.606	-.48	2.99	.663		
TI02	GROUP 1	9	.4611	.237	.079										
	GROUP 2	3	.4667	.076	.044	9.62	.207	-.04	10	.970	-.06	9.91	.952		
AL203	GROUP 1	9	17.1422	1.522	.507										
	GROUP 2	3	15.8733	2.424	1.400	2.54	.278	1.09	10	.300	.85	2.55	.457		
FE203	GROUP 1	9	7.0400	1.029	.343										
	GROUP 2	3	6.5433	1.451	.838	1.99	.397	.66	10	.523	.55	2.71	.622		
FEO	GROUP 1	0	0.	0.	0.										
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000		
MNO	GROUP 1	9	.0856	.017	.006										
	GROUP 2	3	.0633	.012	.007	2.27	.676	2.03	10	.069	2.51	5.40	.054		
MGO	GROUP 1	9	3.5400	.609	.203										
	GROUP 2	3	3.8867	1.316	.760	4.67	.090	-.65	10	.531	-.44	2.29	.702		

T - T E S T

GROUP 1 = NCODE EQ 1.
 GROUP 2 = NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *		* SEPARATE VARIANCE ESTIMATE *					
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.
CAO	GROUP 1	9	10.9644	3.543	1.87	.430	-.93	10	.374	-.78	2.75	.491
	GROUP 2	3	13.3433	4.845								
NA20	GROUP 1	9	1.3811	.718	1.08	.770	.11	10	.912	.11	3.34	.919
	GROUP 2	3	1.3267	.748								
K20	GROUP 1	9	3.1344	.818	3.42	.488	-1.46	10	.176	-1.97	6.91	.090
	GROUP 2	3	3.8700	.442								
P205	GROUP 1	9	.1822	.085	3.76	.451	-.34	10	.740	-.47	7.29	.652
	GROUP 2	3	.2000	.044								
S	GROUP 1	0	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000
	GROUP 2	0	0.	0.								

*SELECT IF ((ROCKCODE EQ 18 OR 19) AND NEWSEQ NE 2057 AND 2061)
TASK_NAME ROCK CODES 18 & 19 - EXCLUDING SEQ NO'S 2057 AND 2061
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	51.479	STD ERROR	.657	STD DEV	2.277
VARIANCE	5.187	KURTOSIS	-1.483	SKEWNESS	-.086
RANGE	6.640	MINIMUM	47.870	MAXIMUM	54.510
SUM	617.750				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.462	STD ERROR	.059	STD DEV	.205
VARIANCE	.042	KURTOSIS	1.712	SKEWNESS	.119
RANGE	.800	MINIMUM	.100	MAXIMUM	.900
SUM	5.550				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	16.825	STD ERROR	.507	STD DEV	1.756
VARIANCE	3.082	KURTOSIS	.639	SKEWNESS	.493
RANGE	6.410	MINIMUM	14.120	MAXIMUM	20.530
SUM	201.900				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	6.916	STD ERROR	.317	STD DEV	1.097
VARIANCE	1.204	KURTOSIS	1.373	SKEWNESS	.391
RANGE	4.300	MINIMUM	4.970	MAXIMUM	9.270
SUM	82.990				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.080	STD ERROR	.005	STD DEV	.019
VARIANCE	.000	KURTOSIS	-.363	SKEWNESS	.408
RANGE	.060	MINIMUM	.050	MAXIMUM	.110
SUM	.960				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.627	STD ERROR	.225	STD DEV	.780
VARIANCE	.609	KURTOSIS	.613	SKEWNESS	1.062
RANGE	2.610	MINIMUM	2.680	MAXIMUM	5.290
SUM	43.520				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.559	STD ERROR	1.101	STD DEV	3.815
VARIANCE	14.553	KURTOSIS	-.574	SKEWNESS	.440
RANGE	12.410	MINIMUM	6.080	MAXIMUM	18.490
SUM	138.710				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.368	STD ERROR	.200	STD DEV	.691
VARIANCE	.478	KURTOSIS	-1.253	SKEWNESS	.241
RANGE	2.090	MINIMUM	.300	MAXIMUM	2.390
SUM	16.410				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.318	STD ERROR	.230	STD DEV	.795
VARIANCE	.632	KURTOSIS	1.405	SKEWNESS	-1.045
RANGE	2.810	MINIMUM	1.500	MAXIMUM	4.310
SUM	39.820				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.187	STD ERROR	.022	STD DEV	.075
VARIANCE	.006	KURTOSIS	4.754	SKEWNESS	2.085
RANGE	.260	MINIMUM	.130	MAXIMUM	.390
SUM	2.240				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	4.182	STD ERROR	1.166	STD DEV	4.038
VARIANCE	16.303	KURTOSIS	1.727	SKEWNESS	1.418
RANGE	13.260	MINIMUM	.500	MAXIMUM	13.760
SUM	50.190				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

CYPRUS ANVIL MINING CORPORATION
ROCK CODES 18 & 19 - EXCLUDING SEQ NO'S 2057 AND 2061

02/28/80

PAGE 16

TRANSPACE REQUIRED. 63 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
15 IF/COMPUTE OPERATIONS

*SELECT IF ((ROCKCODE EQ 21 OR 22 OR 23) AND NEWSEQ NE 2074 AND 2076 AND
2078 AND 2088)
TASK NAME ROCK CODES 21, 22, 23 - EXCLUDING SEQ NO'S 2074 2076 2078 2088
CONDESCRIPTIVE S102 TO L01

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE S102

MEAN	49.860	STD ERROR	1.618	STD DEV	4.576
VARIANCE	20.939	KURTOSIS	.918	SKEWNESS	-.330
RANGE	15.420	MINIMUM	41.750	MAXIMUM	57.170
SUM	398.880				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.288	STD ERROR	.136	STD DEV	.384
VARIANCE	.148	KURTOSIS	4.025	SKEWNESS	2.063
RANGE	1.100	MINIMUM	.050	MAXIMUM	1.150
SUM	2.300				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	16.338	STD ERROR	1.096	STD DEV	3.099
VARIANCE	9.606	KURTOSIS	-.781	SKEWNESS	-.221
RANGE	8.850	MINIMUM	11.330	MAXIMUM	20.180
SUM	130.700				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	6.752	STD ERROR	.680	STD DEV	1.923
VARIANCE	3.697	KURTOSIS	1.660	SKEWNESS	1.490
RANGE	5.530	MINIMUM	5.170	MAXIMUM	10.700
SUM	54.020				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.090	STD ERROR	.010	STD DEV	.028
VARIANCE	.001	KURTOSIS	-.421	SKEWNESS	.657
RANGE	.080	MINIMUM	.060	MAXIMUM	.140
SUM	.720				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.208	STD ERROR	.397	STD DEV	1.122
VARIANCE	1.258	KURTOSIS	6.610	SKEWNESS	2.509
RANGE	3.400	MINIMUM	2.500	MAXIMUM	5.900
SUM	25.660				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	9.509	STD ERROR	1.305	STD DEV	3.692
VARIANCE	13.630	KURTOSIS	-.439	SKEWNESS	.562
RANGE	10.700	MINIMUM	5.120	MAXIMUM	15.820
SUM	76.070				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.698	STD ERROR	.518	STD DEV	1.464
VARIANCE	2.143	KURTOSIS	4.486	SKEWNESS	2.042
RANGE	4.570	MINIMUM	.450	MAXIMUM	5.020
SUM	13.580				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	2.688	STD ERROR	.363	STD DEV	1.027
VARIANCE	1.055	KURTOSIS	-1.976	SKEWNESS	.022
RANGE	2.520	MINIMUM	1.500	MAXIMUM	4.020
SUM	21.500				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.158	STD ERROR	.019	STD DEV	.054
VARIANCE	.003	KURTOSIS	4.595	SKEWNESS	1.885
RANGE	.180	MINIMUM	.100	MAXIMUM	.280
SUM	1.260				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	9.415	STD ERROR	1.581	STD DEV	4.470
VARIANCE	19.984	KURTOSIS	-1.191	SKEWNESS	-.603
RANGE	11.620	MINIMUM	3.000	MAXIMUM	14.620
SUM	75.320				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

CYPRUS ANVIL MINING CORPORATION
ROCK CODES 21, 22, 23 - EXCLUDING SEQ NO'S 2074 2076 2078 2088

02/28/80

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TRANSPACE REQUIRED. 113 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
27 IF/COMPUTE OPERATIONS

FINISH

NORMAL END OF JOB.
27 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

Normalized without L.O.I.

T-Test

3D

vs

3D wolverine

DEFAULT SPACE ALLOCATION.. ALLOWS FOR.. 23 TRANSFORMATIONS
 WORKSPACE 3584 WORDS 46 RECODE VALUES + LAG VARIABLES
 TRANSPACE 512 WORDS 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 GET FILE GCHSS3

FILE GCHSS3 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO. OF CASES
GCHSS3	374

```

COMPUTE NEWVAR = 1000
COMPUTE NEWSEQ = NEWVAR * GROUP + SEQ
COMPUTE NCODE=9
IF ((ROCKCODE EQ 18) AND NEWSEQ NE 2057 AND 2061) NCODE=1
IF (ROCKCODE EQ 19) NCODE=2
COMPUTE NCODE2=9
IF ((ROCKCODE EQ 18 OR 19) AND NEWSEQ NE 2057 AND 2061) NCODE2=1
IF ((ROCKCODE EQ 21 OR 22 OR 23) AND NEWSEQ NE 2074 AND 2076 AND
2078 AND 2088) NCODE2=2
*SELECT IF (NCODE EQ 1)
TASK NAME ROCK CODE 18 - EXCLUDING SEQ NO'S 2057 & 2061
CONDESCRIPTIVE SIO2 TO LOI
    
```

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SIO2

MEAN	53.901	STD ERROR	.749	STD DEV	2.248
VARIANCE	5.055	KURTOSIS	.328	SKEWNESS	-1.288
RANGE	6.170	MINIMUM	49.730	MAXIMUM	55.900
SUM	485.110				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE TIO2

MEAN	.477	STD ERROR	.080	STD DEV	.239
VARIANCE	.057	KURTOSIS	.886	SKEWNESS	.149
RANGE	.810	MINIMUM	.110	MAXIMUM	.920
SUM	4.290				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE AL2O3

MEAN	18.011	STD ERROR	.480	STD DEV	1.439
VARIANCE	2.070	KURTOSIS	3.037	SKEWNESS	1.662
RANGE	4.550	MINIMUM	16.740	MAXIMUM	21.290
SUM	162.100				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

MEAN	7.382	STD ERROR	.302	STD DEV	.907
VARIANCE	.822	KURTOSIS	3.830	SKEWNESS	1.817
RANGE	3.020	MINIMUM	6.480	MAXIMUM	9.500
SUM	66.440				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.089	STD ERROR	.006	STD DEV	.018
VARIANCE	.000	KURTOSIS	-1.176	SKEWNESS	-.105
RANGE	.050	MINIMUM	.060	MAXIMUM	.110
SUM	.800				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.708	STD ERROR	.178	STD DEV	.535
VARIANCE	.286	KURTOSIS	1.884	SKEWNESS	1.531
RANGE	1.570	MINIMUM	3.300	MAXIMUM	4.870
SUM	33.370				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	11.496	STD ERROR	1.176	STD DEV	3.528
VARIANCE	12.449	KURTOSIS	-.776	SKEWNESS	.028
RANGE	10.340	MINIMUM	6.300	MAXIMUM	16.640
SUM	103.460				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.441	STD ERROR	.248	STD DEV	.744
VARIANCE	.553	KURTOSIS	-1.168	SKEWNESS	.128
RANGE	2.100	MINIMUM	.350	MAXIMUM	2.450
SUM	12.970				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.301	STD ERROR	.287	STD DEV	.862
VARIANCE	.744	KURTOSIS	1.357	SKEWNESS	-1.190
RANGE	2.840	MINIMUM	1.520	MAXIMUM	4.360
SUM	29.710				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.190	STD ERROR	.028	STD DEV	.085
VARIANCE	.007	KURTOSIS	5.702	SKEWNESS	2.353
RANGE	.270	MINIMUM	.130	MAXIMUM	.400
SUM	1.710				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 9 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 323 WORDS
9 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
77 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE EQ 2)
TASK NAME ROCK CODE 19
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	53.320	STD ERROR	.721	STD DEV	1.248
VARIANCE	1.558	KURTOSIS	0.	SKEWNESS	-.736
RANGE	2.470	MINIMUM	51.980	MAXIMUM	54.450
SUM	159.960				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.473	STD ERROR	.043	STD DEV	.075
VARIANCE	.006	KURTOSIS	0.	SKEWNESS	.199
RANGE	.150	MINIMUM	.400	MAXIMUM	.550
SUM	1.420				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	16.230	STD ERROR	1.275	STD DEV	2.208
VARIANCE	4.877	KURTOSIS	0.	SKEWNESS	1.732
RANGE	3.840	MINIMUM	14.940	MAXIMUM	18.780
SUM	48.690				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	6.673	STD ERROR	.758	STD DEV	1.312
VARIANCE	1.722	KURTOSIS	0.	SKEWNESS	-.691
RANGE	2.600	MINIMUM	5.270	MAXIMUM	7.870
SUM	20.020				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE FE0

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

ROCK CODE 19
FILE GCHSS3

(CREATION DATE = 01/09/80)

NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE MNO

MEAN	.063	STD ERROR	.007	STD DEV	.012
VARIANCE	.000	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.020	MINIMUM	.050	MAXIMUM	.070
SUM	.190				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.960	STD ERROR	.720	STD DEV	1.247
VARIANCE	1.556	KURTOSIS	0.	SKEWNESS	.834
RANGE	2.460	MINIMUM	2.850	MAXIMUM	5.310
SUM	11.880				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	13.760	STD ERROR	3.123	STD DEV	5.409
VARIANCE	29.258	KURTOSIS	0.	SKEWNESS	.826
RANGE	10.670	MINIMUM	8.940	MAXIMUM	19.610
SUM	41.280				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.353	STD ERROR	.429	STD DEV	.742
VARIANCE	.551	KURTOSIS	0.	SKEWNESS	1.723
RANGE	1.310	MINIMUM	.900	MAXIMUM	2.210
SUM	4.060				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

ROCK CODE 19
FILE GCHSS3

(CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

VARIABLE K20

MEAN	3.953	STD ERROR	.201	STD DEV	.348
VARIANCE	.121	KURTOSIS	0.	SKEWNESS	-.712
RANGE	.690	MINIMUM	3.580	MAXIMUM	4.270
SUM	11.860				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.203	STD ERROR	.027	STD DEV	.046
VARIANCE	.002	KURTOSIS	0.	SKEWNESS	-1.732
RANGE	.080	MINIMUM	.150	MAXIMUM	.230
SUM	.610				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 3 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK CODE 18 VS 19
T-TEST GROUPS= NCODE(1,2)/ VARIABLES= SI02 TO S

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

T - T E S T

GROUP 1 - NCODE EQ 1.
GROUP 2 - NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *												
					F VALUE	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.								
SI02	GROUP 1	9	53.9011	2.248	.749	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	53.3200	1.248	.721	3.24	.509	.42	10	.685	.56	6.70	.594							
TIO2	GROUP 1	9	.4767	.239	.080	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	.4733	.075	.043	10.11	.199	.02	10	.982	.04	9.95	.971							
AL203	GROUP 1	9	18.0111	1.439	.480	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	16.2300	2.208	1.275	2.36	.312	1.65	10	.131	1.31	2.59	.282							
FE203	GROUP 1	9	7.3822	.907	.302	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	6.6733	1.312	.758	2.09	.370	1.06	10	.313	.87	2.67	.449							
FEO	GROUP 1	0	0.	0.	0.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000							
MNO	GROUP 1	9	.0889	.018	.006	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	.0633	.012	.007	2.52	.623	2.23	10	.050	2.83	5.76	.030							
MGO	GROUP 1	9	3.7078	.535	.178	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	GROUP 2	3	3.9600	1.247	.720	5.44	.064	-.51	10	.618	-.34	2.25	.766							

----- T - T E S T -----

GROUP 1 - NCODE EQ 1.
GROUP 2 - NCODE EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	F VALUE	2-TAIL PROB.	* POOLED VARIANCE ESTIMATE *			* SEPARATE VARIANCE ESTIMATE *			
							T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	
CAO	GROUP 1	9	11.4956	3.528	1.176								
	GROUP 2	3	13.7600	5.409	3.123	2.35	.313	-.85	10	.413	-.68	2.59	.546
NA20	GROUP 1	9	1.4411	.744	.248								
	GROUP 2	3	1.3533	.742	.429	1.00	1.000	.18	10	.863	.18	3.47	.871
K20	GROUP 1	9	3.3011	.862	.287								
	GROUP 2	3	3.9533	.348	.201	6.12	.301	-1.24	10	.242	-1.86	9.06	.096
P205	GROUP 1	9	.1900	.085	.028								
	GROUP 2	3	.2033	.046	.027	3.36	.495	-.25	10	.804	-.34	6.85	.741
S	GROUP 1	0	0.	0.	0.								
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000

*SELECT IF (NCODE2 EQ 1)
TASK NAME ROCK CODES 18 & 19 - EXCLUDING SEQ NO'S 2057 & 2061
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE SI02

MEAN	53.756	STD ERROR	.579	STD DEV	2.007
VARIANCE	4.028	KURTOSIS	.138	SKEWNESS	-1.062
RANGE	6.170	MINIMUM	49.730	MAXIMUM	55.900
SUM	645.070				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE TI02

MEAN	.476	STD ERROR	.059	STD DEV	.206
VARIANCE	.042	KURTOSIS	1.756	SKEWNESS	.171
RANGE	.810	MINIMUM	.110	MAXIMUM	.920
SUM	5.710				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.566	STD ERROR	.503	STD DEV	1.744
VARIANCE	3.041	KURTOSIS	.938	SKEWNESS	.410
RANGE	6.350	MINIMUM	14.940	MAXIMUM	21.290
SUM	210.790				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	7.205	STD ERROR	.291	STD DEV	1.007
VARIANCE	1.014	KURTOSIS	2.505	SKEWNESS	.534
RANGE	4.230	MINIMUM	5.270	MAXIMUM	9.500
SUM	86.460				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE FEO

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.082	STD ERROR	.006	STD DEV	.020
VARIANCE	.000	KURTOSIS	-.949	SKEWNESS	.157
RANGE	.060	MINIMUM	.050	MAXIMUM	.110
SUM	.990				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.771	STD ERROR	.205	STD DEV	.710
VARIANCE	.504	KURTOSIS	.926	SKEWNESS	1.185
RANGE	2.460	MINIMUM	2.850	MAXIMUM	5.310
SUM	45.250				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	12.062	STD ERROR	1.134	STD DEV	3.927
VARIANCE	15.422	KURTOSIS	-.249	SKEWNESS	.427
RANGE	13.310	MINIMUM	6.300	MAXIMUM	19.610
SUM	144.740				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.419	STD ERROR	.205	STD DEV	.710
VARIANCE	.504	KURTOSIS	-1.279	SKEWNESS	.266
RANGE	2.100	MINIMUM	.350	MAXIMUM	2.450
SUM	17.030				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	3.464	STD ERROR	.233	STD DEV	.806
VARIANCE	.650	KURTOSIS	2.235	SKEWNESS	-1.459
RANGE	2.840	MINIMUM	1.520	MAXIMUM	4.360
SUM	41.570				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.193	STD ERROR	.022	STD DEV	.075
VARIANCE	.006	KURTOSIS	5.207	SKEWNESS	2.147
RANGE	.270	MINIMUM	.130	MAXIMUM	.400
SUM	2.320				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 12 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED. 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

*SELECT IF (NCODE2 EQ 2)
TASK NAME ROCK CODES 21, 22, 23 - EXCLUDING SEQ NO'S 2074 2076 2078 2088
CONDESCRIPTIVE SIO2 TO LOI

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE S102

MEAN	55.055	STD ERROR	1.639	STD DEV	4.635
VARIANCE	21.481	KURTOSIS	.589	SKEWNESS	.755
RANGE	14.720	MINIMUM	48.890	MAXIMUM	63.610
SUM	440.440				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.306	STD ERROR	.139	STD DEV	.393
VARIANCE	.155	KURTOSIS	4.074	SKEWNESS	2.067
RANGE	1.130	MINIMUM	.060	MAXIMUM	1.190
SUM	2.450				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.986	STD ERROR	1.041	STD DEV	2.945
VARIANCE	8.673	KURTOSIS	.304	SKEWNESS	-.665
RANGE	9.100	MINIMUM	12.610	MAXIMUM	21.710
SUM	143.890				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	7.389	STD ERROR	.614	STD DEV	1.736
VARIANCE	3.013	KURTOSIS	2.188	SKEWNESS	1.545
RANGE	5.150	MINIMUM	5.880	MAXIMUM	11.030
SUM	59.110				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE FE0

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE MNO

MEAN	.100	STD ERROR	.009	STD DEV	.027
VARIANCE	.001	KURTOSIS	-1.419	SKEWNESS	.299
RANGE	.070	MINIMUM	.070	MAXIMUM	.140
SUM	.800				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	3.520	STD ERROR	.385	STD DEV	1.089
VARIANCE	1.186	KURTOSIS	5.815	SKEWNESS	2.282
RANGE	3.500	MINIMUM	2.580	MAXIMUM	6.080
SUM	28.160				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	10.629	STD ERROR	1.603	STD DEV	4.535
VARIANCE	20.570	KURTOSIS	-.461	SKEWNESS	.719
RANGE	12.750	MINIMUM	5.780	MAXIMUM	18.530
SUM	85.030				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE NA2O

MEAN	1.871	STD ERROR	.585	STD DEV	1.654
VARIANCE	2.735	KURTOSIS	5.284	SKEWNESS	2.213
RANGE	5.200	MINIMUM	.510	MAXIMUM	5.710
SUM	14.970				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	2.970	STD ERROR	.394	STD DEV	1.115
VARIANCE	1.243	KURTOSIS	-1.901	SKEWNESS	-.130
RANGE	2.790	MINIMUM	1.550	MAXIMUM	4.340
SUM	23.760				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.174	STD ERROR	.019	STD DEV	.054
VARIANCE	.003	KURTOSIS	2.903	SKEWNESS	1.444
RANGE	.170	MINIMUM	.120	MAXIMUM	.290
SUM	1.390				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

VARIABLE S

STATISTICS CAN NOT BE COMPUTED FOR THIS VARIABLE.
 VARIABLE IS EITHER MISSING FOR EVERY CASE, ALPHANUMERIC, OR HAS NUMERIC VALUES EXCEEDING 10,000,000,000,000.

VARIABLE LOI

MEAN	0.	STD ERROR	0.	STD DEV	0.
VARIANCE	0.	KURTOSIS	0.	SKEWNESS	0.
RANGE	0.	MINIMUM	0.	MAXIMUM	0.
SUM	0.				

VALID OBSERVATIONS - 8 MISSING OBSERVATIONS - 0

TRANSPACE REQUIRED... 25 WORDS
1 TRANSFORMATIONS
0 RECODE VALUES + LAG VARIABLES
3 IF/COMPUTE OPERATIONS

TASK NAME ROCK CODES 18 19 VS 21 22 23
T-TEST GROUPS= NCODE2 (1,2)/ VARIABLES= S102 TO S

***** T-TEST PROBLEM REQUIRES 86 WORDS OF WORKSPACE *****

T-Test

3D (Mine + Wolverine) vs 5B

----- T - T E S T -----

GROUP 1 - NCODE2 EQ 1.
GROUP 2 - NCODE2 EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	F VALUE	2-TAIL PROB.	* POOLED VARIANCE ESTIMATE *		* SEPARATE VARIANCE ESTIMATE *	
							T VALUE	DEGREES OF FREEDOM	2-TAIL PROB.	T VALUE

SI02	GROUP 1	12	53.7558	2.007	.579					
	GROUP 2	8	55.0550	4.635	1.639	5.33	.015	-.87	18	.398
										-.75 8.77 .474

TIO2	GROUP 1	12	.4758	.206	.059					
	GROUP 2	8	.3062	.393	.139	3.64	.056	1.27	18	.221
										1.12 9.59 .288

AL203	GROUP 1	12	17.5658	1.744	.503					
	GROUP 2	8	17.9862	2.945	1.041	2.85	.117	-.40	18	.692
										-.36 10.30 .724

FE203	GROUP 1	12	7.2050	1.007	.291					
	GROUP 2	8	7.3887	1.736	.614	2.97	.104	-.30	18	.767
										-.27 10.17 .792

FEO	GROUP 1	0	0.	0.	0.					
	GROUP 2	0	0.	0.	0.	0.	1.000	0.	0	1.000
										0. 0. 1.000

MNO	GROUP 1	12	.0825	.020	.006					
	GROUP 2	8	.1000	.027	.009	1.78	.378	-1.68	18	.111
										-1.58 12.15 .140

MGO	GROUP 1	12	3.7708	.710	.205					
	GROUP 2	8	3.5200	1.089	.385	2.35	.197	.63	18	.539
										.58 10.97 .577

----- T - T E S T -----

GROUP 1 - NCODE2 EQ 1.
 GROUP 2 - NCODE2 EQ 2.

VARIABLE	NUMBER OF CASES	MEAN	STANDARD DEVIATION	STANDARD ERROR	* POOLED VARIANCE ESTIMATE *		* SEPARATE VARIANCE ESTIMATE *						
					* F VALUE	* 2-TAIL PROB.	* T VALUE	* DEGREES OF FREEDOM	* 2-TAIL PROB.	* T VALUE	* DEGREES OF FREEDOM	* 2-TAIL PROB.	
CAO													
GROUP 1	12	12.0617	3.927	1.134									
GROUP 2	8	10.6288	4.535	1.603	1.33	.642	.75	18	.462	.73	13.59	.478	
NA20													
GROUP 1	12	1.4192	.710	.205									
GROUP 2	8	1.8713	1.654	.585	5.42	.014	-.85	18	.409	-.73	8.74	.484	
K20													
GROUP 1	12	3.4642	.806	.233									
GROUP 2	8	2.9700	1.115	.394	1.91	.322	1.15	18	.264	1.08	11.81	.302	
P205													
GROUP 1	12	.1933	.075	.022									
GROUP 2	8	.1737	.054	.019	1.90	.403	.63	18	.535	.68	17.80	.508	
S													
GROUP 1	0	0.	0.	0.	0.	1.000	0.	0	1.000	0.	0.	1.000	
GROUP 2	0	0.	0.	0.									

FINISH

NORMAL END OF JOB.
32 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.

DECEMBER 13, 1979

GEOCHEMICAL DATA — WHOLE ROCK ANALYSES

GPS PQS001,,GEOCHM

AT: 12/13/79 14:01:37 JOB: 12289

UU 40-01-002 6043244320 1

COPY: 1 *

SPSS: CONDESCRIPTIVE FOR EACH ELEMENT

STATISTICS ALL

FOR THE FILE — NORMALIZED WITH LOI

Includes Avg. & STATS for all the
different rock types as 1 big population.

12/13/79 13:45:01-00 004
!* ***** THIS IS ACCOUNT PQS001 *****!
!FORM 132
GPS470 I FORM IGNORED
GPS207 I ERR DURING FORM, CMND #01, FROM GSAUTO, LINE 3
!LIMIT GROWTH:10000
!USAGE, ALL
USAGE ON 12/13/79 AT 13:45:07.
PAGES:225 DATE:00/00/00
LIMIT:2000 TAPES:10
!ORDER LIB:PQS100
!* ***** USE THE FOLLOWING COMMAND TO LOAD A PROGRAM !
* !
* !UNBIND,LIST,ONLY PRODLB.02 PPPPPP.VV-XQT !
* !
* !*****!
!EQUATE 4 GCHSS1.
!SPSS.N INS:COMND1 OUT\$:MH FTN8:GCHMN1.GE
STOP
SRU'S:53.3
!SAVE MH
GPS566 E NO TEMP FILE MH
GPS207 I ERR DURING SAVE, CMND #01, FROM INS
!OFF
USAGE ON 12/13/79 AT 13:45:45
SRU'S:57.1 ELAPSED TIME: 00:00:44

GPS POS001, GEOCHM

AT: 12/13/79 14:01:49 JOB: 12661 UU 40-01-002 604324320 2 COPY: 1 *

```
12/13/79 13:51:23-00 050
!* ***** THIS IS ACCOUNT PQS001 *****!
!FORM 132
GPS470 I FORM IGNORED
GPS207 I ERR DURING FORM, CMND #01, FROM GSAUTO, LINE 3
!LIMIT GROWTH:10000
!USAGE, ALL
USAGE ON 12/13/79 AT 13:51:28.
PAGES:258 DATE:00/00/00
LIMIT:2000 TAPES:10
!ORDER LIB:PQS100
!* ***** USE THE FOLLOWING COMMAND TO LOAD A PROGRAM !
!*
!UNBIND,LIST,ONLY PRODLB.02 PPPPPP.VV-XQT !
!*
!* *****!
!EQUATE 4-GCHSS1.
!SPSS.N INS:COMND1 OUT$:MH FTN8:GCHMN1.GE
!STOP
SRU'S:91.3
!SAVE MH
GPS566 E NO TEMP FILE MH
GPS207 I ERR DURING SAVE, CMND #01, FROM INS
!OFF
USAGE ON 12/13/79 AT 13:53:24
SRU'S:95.4 ELAPSED TIME: 00:02:01
```

MOUNT PRINT FORMS ST2

PQS001 GEOCHM

MH

LIBS

AT: 12/13/79 14:02:12 JOB: 12996

UU 40-01-002 6043244320 3

COPY: 1 *

SPSS FOR INFONET CSTS, RELEASE 7.2.1, JUNE 21, 1979

DEFAULT SPACE ALLOCATION.. WORKSPACE 3584 WORDS TRANSSPACE 512 WORDS
 ALLOWS FOR.. 23 TRANSFORMATIONS
 46 RECODE VALUES + LAG VARIABLES
 46 IF/COMPUTE OPERATIONS

RUN NAME CYPRUS ANVIL MINING CORPORATION
 FILE NAME GCHSS1
 VARIABLE LIST SPEC GROUP SEQ ROCKCODE SIO2 TIO2 AL203 FE203 FEO MNO MGO CAO
 NA20 K20 P205 S LOI BA CU PB ZN CD AG CR V CO NI MO RB SR ZR Y
 INPUT MEDIUM DISK
 N OF CASES UNKNOWN
 INPUT FORMAT FIXED (A1,9X,F1.0,F3.0,8X,F3.0,28F8.2)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
SPEC	A 1	1	1-
GROUP	F 1.0	1	11-
SEQ	F 3.0	1	12-
ROCKCODE	F 3.0	1	23-
SIO2	F 8.0	1	26-
TIO2	F 8.0	1	34-
AL203	F 8.0	1	42-
FE203	F 8.0	1	50-
FEO	F 8.0	1	58-
MNO	F 8.0	1	66-
MGO	F 8.0	1	74-
CAO	F 8.0	1	82-
NA20	F 8.0	1	90-
K20	F 8.0	1	98-
P205	F 8.0	1	106-
S	F 8.0	1	114-
LOI	F 8.0	1	122-
BA	F 8.0	1	130-
CU	F 8.0	1	138-
PB	F 8.0	1	146-
ZN	F 8.0	1	154-
CD	F 8.0	1	162-
AG	F 8.0	1	170-
CR	F 8.0	1	178-
V	F 8.0	1	186-
CO	F 8.0	1	194-
NI	F 8.0	1	202-
MO	F 8.0	1	210-

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
RB	F 8. 2	1	218- 225
SR	F 8. 2	1	226- 233
ZR	F 8. 2	1	234- 241
Y	F 8. 2	1	242- 249

THE INPUT FORMAT PROVIDES FOR 32 VARIABLES. 32 WILL BE READ
 IT PROVIDES FOR 1 RECORDS ('CARDS') PER CASE. A MAXIMUM OF 249 'COLUMNS' ARE USED ON A RECORD.

RECODE SPEC (' '=0)
 MISSING VALUES SIO2 TO Y (-.01)
 VAR LABELS SPEC SPECIMEN ID
 GROUP DATA GROUP
 SEQ SAMPLE SEQUENCE

VALUE LABELS SPEC ('F')FIELD SAMPLE ('C')CONTROL SAMPLE ('O')FIELD SAMPLE/
 GROUP (1)1977 HAND SAMPLE (2)1979 WHOLE ROCK (3)SECTION 118/
 ROCKCODE (1)1F (2)3C (3)3G (4)5C (5)5F (6)MCV (7)5CU (8)5CG
 (9)STDMRG-1 (10)UNK (11)KSMB (12)KSE (13)5D (14)1C (15)3E
 (16)3G-D (17)STD SY-2 (18)3D (19)3DW (20)3DV (21)5BD (22)5B
 (23)5B3 (24)5A (25)ARGBS (26)FLSZB (27)ARGBK (28)SFV (29)ARGBD
 (30)FLSZG (31)0E8 (32)1CD (33)0E7 (34)1C6 (35)1D4 (36)0E6
 (37)0D8 (38)1C5 (39)0E (40)1D (41)STD SY-3 (42)2A (43)1D+1F

PRINT FORMATS SPEC (A)/ SIO2 TO Y (2)
 READ INPUT DATA

FARO

AFTER READING 394 CASES FROM SUBFILE GCHSS1 , END OF FILE WAS ENCOUNTERED ON LOGICAL UNIT # 8

TRANSPACE REQUIRED. 25 WORDS

1 TRANSFORMATIONS
2 RECODE VALUES + LAG VARIABLES
0 IF/COMPUTE OPERATIONS

TASK NAME NORMALIZED WITH L.O.I.
FREQUENCIES GENERAL=SPEC GROUP ROCKCODE

GIVEN WORKSPACE ALLOWS FOR 1195 TOTAL VALUES AND 99 LABELED VALUES PER VARIABLE FOR 'FREQUENCIES'

SPEC SPECIMEN ID

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
CONTROL SAMPLE	C	20	5.1	5.1	5.1
FIELD SAMPLE	F	208	52.8	52.8	57.9
FIELD SAMPLE	0	166	42.1	42.1	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

GROUP DATA GROUP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1977 HAND SAMPLE	1.	56	14.2	14.2	14.2
1979 WHOLE ROCK	2.	120	30.5	30.5	44.7
SECTION 118	3.	218	55.3	55.3	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

ROCKCODE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
1F	1.	8	2.0	2.0	2.0
3C	2.	7	1.8	1.8	3.8
3G	3.	22	5.6	5.6	9.4
5C	4.	26	6.6	6.6	16.0
5F	5.	2	.5	.5	16.5
MCV	6.	35	8.9	8.9	25.4
5CU	7.	1	.3	.3	25.6
5CG	8.	1	.3	.3	25.9
STDMRG-1	9.	11	2.8	2.8	28.7
UNK	10.	1	.3	.3	28.9
KSMB	11.	6	1.5	1.5	30.5
KSE	12.	2	.5	.5	31.0
5D	13.	5	1.3	1.3	32.2
1C	14.	12	3.0	3.0	35.3
3E	15.	1	.3	.3	35.5
3G-D	16.	1	.3	.3	35.8
STD SY-2	17.	6	1.5	1.5	37.3
3D	18.	11	2.8	2.8	40.1
3DW	19.	3	.8	.8	40.9
3DV	20.	1	.3	.3	41.1
5BD	21.	1	.3	.3	41.4

58

22.

10

2.5

2.5

43.9

SB3	23.	1	.3	.3	44.2
5A	24.	1	.3	.3	44.4
ARGBS	25.	5	1.3	1.3	45.7
FLSZB	26.	3	.8	.8	46.4
ARGBK	27.	5	1.3	1.3	47.7
SFV	28.	2	.5	.5	48.2
ARGBD	29.	2	.5	.5	48.7
FLSZG	30.	3	.8	.8	49.5
OE8	31.	11	2.8	2.8	52.3
1CD	32.	47	11.9	11.9	64.2
OE7	33.	2	.5	.5	64.7
1C6	34.	22	5.6	5.6	70.3
1D4	35.	35	8.9	8.9	79.2
OE6	36.	1	.3	.3	79.4
OD8	37.	1	.3	.3	79.7
1C5	38.	3	.8	.8	80.5
OE	39.	6	1.5	1.5	82.0
1D	40.	66	16.8	16.8	98.7
STD SY-3	41.	3	.8	.8	99.5
2A	42.	1	.3	.3	99.7
1D*1F	43.	1	.3	.3	100.0
	TOTAL	394	100.0	100.0	

VALID CASES 394 MISSING CASES 0

CONDESCRIPTIVE SIO2 TO Y

***** GIVEN WORKSPACE ALLOWS FOR 275 VARIABLES FOR CONDESCRIPTIVE PROBLEM *****

STATISTICS ALL

VARIABLE S102

MEAN	53.530	STD ERROR	.362	STD DEV	7.177
VARIANCE	51.506	KURTOSIS	1.393	SKEWNESS	-.048
RANGE	63.220	MINIMUM	22.500	MAXIMUM	85.720
SUM	21090.690				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE T102

MEAN	.978	STD ERROR	.046	STD DEV	.908
VARIANCE	.825	KURTOSIS	3.723	SKEWNESS	2.017
RANGE	4.690	MINIMUM	0.	MAXIMUM	4.690
SUM	385.380				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE AL203

MEAN	17.188	STD ERROR	.196	STD DEV	3.882
VARIANCE	15.071	KURTOSIS	.521	SKEWNESS	-.553
RANGE	27.380	MINIMUM	.800	MAXIMUM	28.180
SUM	6771.880				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FE203

MEAN	8.283	STD ERROR	.172	STD DEV	3.409
VARIANCE	11.620	KURTOSIS	.553	SKEWNESS	.118
RANGE	19.450	MINIMUM	.150	MAXIMUM	19.600
SUM	3263.660				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE FEO

MEAN	7.519	STD ERROR	.276	STD DEV	2.327
VARIANCE	5.415	KURTOSIS	2.523	SKEWNESS	.013
RANGE	14.910	MINIMUM	1.410	MAXIMUM	16.320

SUM 533.850

VALID OBSERVATIONS - 71

MISSING OBSERVATIONS - 323

VARIABLE MNO

MEAN	.112	STD ERROR	.003	STD DEV	.065
VARIANCE	.004	KURTOSIS	6.567	SKEWNESS	1.881
RANGE	.520	MINIMUM	.010	MAXIMUM	.530
SUM	44.290				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE MGO

MEAN	4.033	STD ERROR	.184	STD DEV	3.651
VARIANCE	13.330	KURTOSIS	11.369	SKEWNESS	2.721
RANGE	30.740	MINIMUM	.300	MAXIMUM	31.040
SUM	1589.090				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE CAO

MEAN	4.485	STD ERROR	.253	STD DEV	5.030
VARIANCE	25.303	KURTOSIS	3.063	SKEWNESS	1.417
RANGE	35.230	MINIMUM	.120	MAXIMUM	35.350
SUM	1767.260				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE NA20

MEAN	1.507	STD ERROR	.066	STD DEV	1.304
VARIANCE	1.701	KURTOSIS	.059	SKEWNESS	1.085
RANGE	5.400	MINIMUM	.100	MAXIMUM	5.500
SUM	593.830				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE K20

MEAN	2.848	STD ERROR	.083	STD DEV	1.654
VARIANCE	2.735	KURTOSIS	-1.133	SKEWNESS	-.477
RANGE	6.430	MINIMUM	0.	MAXIMUM	6.430
SUM	1121.990				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE P205

MEAN	.202	STD ERROR	.007	STD DEV	.132
VARIANCE	.017	KURTOSIS	3.355	SKEWNESS	1.836
RANGE	.770	MINIMUM	.040	MAXIMUM	.810
SUM	79.780				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE S

MEAN	.633	STD ERROR	.087	STD DEV	1.438
VARIANCE	2.067	KURTOSIS	34.134	SKEWNESS	5.339
RANGE	13.050	MINIMUM	.010	MAXIMUM	13.060
SUM	173.360				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE LOI

MEAN	5.035	STD ERROR	.158	STD DEV	3.131
VARIANCE	9.804	KURTOSIS	8.568	SKEWNESS	1.809
RANGE	28.280	MINIMUM	0.	MAXIMUM	28.280
SUM	1983.700				

VALID OBSERVATIONS - 394 MISSING OBSERVATIONS - 0

VARIABLE BA

MEAN	1605.208	STD ERROR	363.597	STD DEV	6018.606
VARIANCE	*****	KURTOSIS	185.038	SKEWNESS	12.961
RANGE	91130.000	MINIMUM	70.000	MAXIMUM	91200.000
SUM	439827.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CU

MEAN	237.580	STD ERROR	111.018	STD DEV	1837.682
VARIANCE	*****	KURTOSIS	254.677	SKEWNESS	15.724
RANGE	29996.000	MINIMUM	4.000	MAXIMUM	30000.000
SUM	65097.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE PB

MEAN	293.931	STD ERROR	121.036	STD DEV	2003.510
VARIANCE	*****	KURTOSIS	111.897	SKEWNESS	10.024
RANGE	25998.000	MINIMUM	2.000	MAXIMUM	26000.000
SUM	80537.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE ZN

MEAN	411.839	STD ERROR	140.421	STD DEV	2324.389
VARIANCE	*****	KURTOSIS	120.557	SKEWNESS	10.287
RANGE	30980.000	MINIMUM	20.000	MAXIMUM	31000.000
SUM	112844.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CD

MEAN	1.217	STD ERROR	.749	STD DEV	12.392
VARIANCE	153.553	KURTOSIS	245.191	SKEWNESS	15.339
RANGE	200.000	MINIMUM	0.	MAXIMUM	200.000
SUM	333.400				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE AG

MEAN	.692	STD ERROR	.172	STD DEV	2.845
VARIANCE	8.096	KURTOSIS	71.716	SKEWNESS	7.964
RANGE	32.000	MINIMUM	0.	MAXIMUM	32.000
SUM	189.600				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CR

MEAN	134.077	STD ERROR	8.796	STD DEV	145.604
VARIANCE	21200.401	KURTOSIS	23.751	SKEWNESS	4.395
RANGE	1195.000	MINIMUM	5.000	MAXIMUM	1200.000
SUM	36737.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE V

MEAN	130.438	STD ERROR	5.129	STD DEV	84.898
VARIANCE	7207.712	KURTOSIS	21.419	SKEWNESS	4.015
RANGE	752.000	MINIMUM	48.000	MAXIMUM	800.000
SUM	35740.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE CO

MEAN	35.978	STD ERROR	.854	STD DEV	14.132
VARIANCE	199.721	KURTOSIS	6.356	SKEWNESS	2.077
RANGE	104.000	MINIMUM	16.000	MAXIMUM	120.000
SUM	9858.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE NI

MEAN	56.675	STD ERROR	4.818	STD DEV	79.752
VARIANCE	6360.411	KURTOSIS	47.527	SKEWNESS	6.134
RANGE	790.000	MINIMUM	0.	MAXIMUM	790.000
SUM	15529.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE MO

MEAN	3.828	STD ERROR	.080	STD DEV	1.327
VARIANCE	1.762	KURTOSIS	28.852	SKEWNESS	3.992
RANGE	14.000	MINIMUM	2.000	MAXIMUM	16.000
SUM	1049.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE RB

MEAN	132.168	STD ERROR	3.630	STD DEV	60.086
VARIANCE	3610.287	KURTOSIS	.168	SKEWNESS	-1.013
RANGE	271.000	MINIMUM	0.	MAXIMUM	271.000
SUM	36214.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE SR

MEAN	132.328	STD ERROR	13.018	STD DEV	215.494
VARIANCE	46437.862	KURTOSIS	115.840	SKEWNESS	9.186
RANGE	2987.000	MINIMUM	13.000	MAXIMUM	3000.000
SUM	36258.000				

VALID OBSERVATIONS - 274 MISSING OBSERVATIONS - 120

VARIABLE ZR

MEAN	153.036	STD ERROR	7.306	STD DEV	77.320
VARIANCE	5978.323	KURTOSIS	2.499	SKEWNESS	1.293
RANGE	437.000	MINIMUM	5.000	MAXIMUM	442.000
SUM	17140.000				

VALID OBSERVATIONS - 112 MISSING OBSERVATIONS - 282

VARIABLE Y

MEAN	19.027	STD ERROR	6.680	STD DEV	70.696
VARIANCE	4997.990	KURTOSIS	93.246	SKEWNESS	9.331
RANGE	728.000	MINIMUM	0.	MAXIMUM	728.000
SUM	2131.000				

VALID OBSERVATIONS - 112 MISSING OBSERVATIONS - 282

SAVE FILE

FILE GCHSS1 HAS BEEN SAVED WITH 35 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	GROUP	SEQ	ROCKCODE	S102	T102	AL203
FE203	FEO	MNO	MGO	CAO	NA20	K20	P205	S	LOI
BA	CU	PB	ZN	CD	AG	CR	V	CO	NI
MO	RB	SR	ZR	Y					

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS1	394

FINISH

NORMAL END OF JOB.
28 CONTROL CARDS WERE PROCESSED.
0 ERRORS WERE DETECTED.