

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           GCHSS2

FILE GCHSS2 HAS 35 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GCHSS2	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  
 SAVE FILE         GE02    NORMALIZED WITHOUT L.O.I. - 'S' EXCLUDED

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

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

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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      SIO2 TO LOI
    
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\*\*\*\*\* 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

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 SI02 TO LOI

\*\*\*\*\* 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 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 2 - 3C

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

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 NA20

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 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	49.977	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

## 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

## 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

## 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

## 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	.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

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

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

VARIABLE NA20

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

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

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

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

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. 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 SI02 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

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

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

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

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

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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

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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

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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

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ROCK CODE 4 - 5C

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

## 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

VARIABLE S102

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

VARIABLE T102

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

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

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

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

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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

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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

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VARIABLE NA20

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

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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 SI02 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 S102

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

VARIABLE TI02

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

VARIABLE AL203

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

VARIABLE FE203

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

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

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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	9.230
SUM	94.620				

VALID OBSERVATIONS - 14                      MISSING OBSERVATIONS - 0

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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

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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

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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 - 5D  
CONDESCRIPTIVE SI02 TO LOI

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

STATISTICS ALL

ROCK CODE 13 - 50

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

## 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

## 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

## 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

## 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

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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

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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

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VARIABLE NA20

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

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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 10,000,000,000,000.

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 S102 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 SIO2

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 TIO2

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 AL2O3

MEAN	21.278	STD ERROR	.533	STD DEV	2.261
VARIANCE	5.112	KURTOSIS	-.436	SKEWNESS	2.955
RANGE	7.080	MINIMUM	18.860	MAXIMUM	25.940
SUM	383.010				

VALID OBSERVATIONS - 18 MISSING OBSERVATIONS - 0

VARIABLE FE2O3

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.

ROCK CODE 3 - 3G

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

## 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
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## 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
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## 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
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## VARIABLE NA20

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
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ROCK CODE 3 - 3G

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

## 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 SI02

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 TI02

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

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 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

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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 CAD

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

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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

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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.

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 SIO2 TO LOI

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

STATISTICS ALL

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

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

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

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

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 MND

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

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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

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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

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ROCK CODE 27 - ARGBK  
FILE GCHSS3 (CREATION DATE = 01/09/80) NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

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 - ARGBD  
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

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 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

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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

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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

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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

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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 GEO3 NORMALIZED WITHOUT L.O.I. - 'S' INCLUDED

FILE GEO3 HAS BEEN SAVED WITH 37 VARIABLES..

SEQNUM	SUBFILE	CASWGT	SPEC	S102	TJ02	AL203	FE203	FEO	MNO
MGO	CAQ	NA20	K20	P205	S	LQI	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
GEO3	374

FINISH

NORMAL END OF JOB.  
63 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
TRANSPACE 512 WORDS		46 IF/COMPUTE OPERATIONS

RUN NAME	CYPRUS ANVIL MINING CORPORATION
GET FILE	GEO1

FILE GEO1 HAS 37 VARIABLES

THE SUBFILES ARE..

NAME	NO OF CASES
GEO1	374

\*SELECT IF ((ROCKCODE EQ 1) AND NEWSEQ NE 3039 AND 3157 AND 3218)  
 TASK NAME ROCK CODE 1 - 1F  
 CONDESCRIPTIVE SI02 TO LOI

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

STATISTICS ALL

VARIABLE SIO2

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 TIO2

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.

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 NA20

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 SI02 TO LOI

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

STATISTICS ALL

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

VARIABLE S102

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 T102

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 10,000,000,000,000.

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 SID2 TO LOI

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

STATISTICS ALL

VARIABLE SI02

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 TI02

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 FEO

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 FEO

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

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 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

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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

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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

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VARIABLE NA20

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

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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

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 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 NA20

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 - 50  
CONDESCRIPTIVE SIO2 TO LOI

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

STATISTICS ALL

VARIABLE SID2

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

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 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

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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

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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

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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

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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	-1.039
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 10,000,000,000,000.

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

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.

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	1.043
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 PGS003 MH SIZE: LIB\$ USER:  
1 QUEUED JOBS FOR YOUR REQUEST

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

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

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

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 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

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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

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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

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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

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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 - ARGBD  
CONDESCRIPTIVE S102 TO L01

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

STATISTICS ALL

VARIABLE SI02

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 TI02

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

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 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

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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

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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

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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

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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.