

BRITISH COLUMBIA
Tamihi Creek
CFC Crunched Geochem

NTS 92H/4

826827

***** ARCHIVAL INFORMATION WAS ABSENT IN ORIGINAL DATA *****

TAMIHI CREEK RECONNAISSANCE

- refer to NTS 92H/4W, MAY-83, and Ian Pirie's notes
- no geology on malar wet
- no co-ordinate system used
- 180 samples analysed at TERRAMIN
- only 2 significant populations of rocks: TYPE 1 - 81 samples
TYPE 2 - 40 samples

ROCK TYPES

- 1 - MAFIC (basalt)
- 2 - INTERMEDIATE
- 3 - INT-FELSIC (da, da-rhyo)
- 4 - FELSIC (rhyolite)
- 5 - CHERT
- 6 - SEDS
- 7 - INTRUSIVE
- 8 - FELDSPAR PORPHYR
- 9 - NO ROCK TYPE ASSIGNED

***** INFORMATION ADDED BY CRUNCH *****

** THE FOLLOWING SPECIAL VALUES WERE RECODED TO EQUAL -1234.567 **

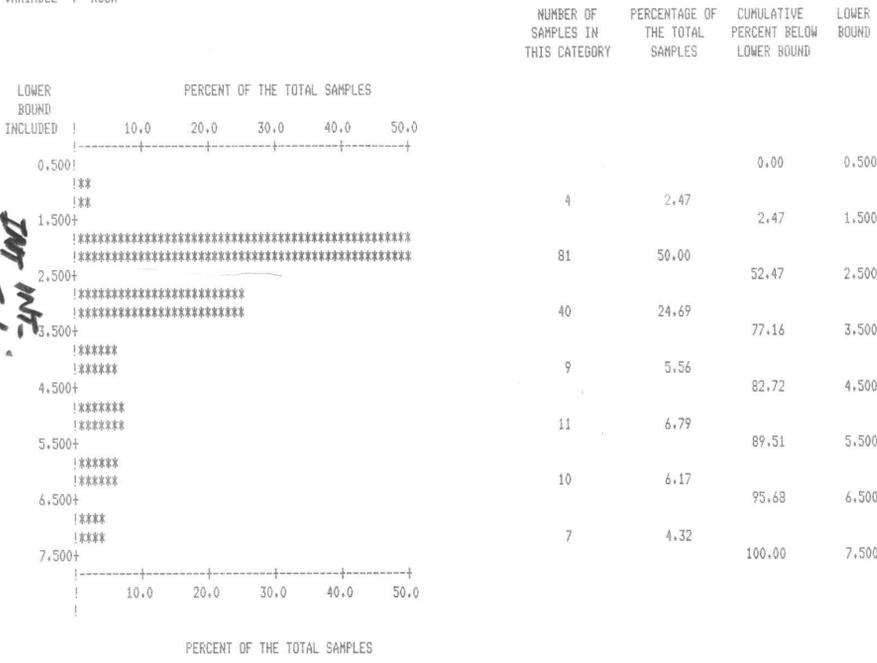
VARIABLE NAME SPECIAL VALUE

ROCK	9.000
ROCK	9999.000
SI02	9999.000
CA0	9999.000
MGO	9999.000
NA20	9999.000
FE203	9999.000
BA	9999.000
CU	9999.000
ZN	9999.000

** NO TRANSFORMATIONS OR SELECTIONS WERE MADE DURING CRUNCH **

DATA TITLE : TAMIHI CREEK AREA RECCE

VARIABLE : ROCK



NOT IN felsic

Use -matic for Type 2 felsic Type 3

VARIABLE: ROCK

NUMBER OF OBSERVATIONS: 162

MINIMUM: 1.000

MAXIMUM: 7.000

MEAN: 3.000

STANDARD ERROR OF MEAN: 0.116

STANDARD DEVIATION: 1.479

COEFFICIENT OF VARIATION: 49.288

SKEWNESS: 1.340

KURTOSIS: 0.786

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

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02-APR-84

A PROGRAM IN THE Q'GAS SYSTEM TO CALCULATE UNIVARIATE STATISTICS AND MAKE HISTOGRAMS

VERSION 4.P.125 DEC 1982

DATA TITLE: TAMIHI CREEK AREA RECCE

THE FOLLOWING VARIABLES ARE IN THE DATA SET:

ROCK SI02 CAO MgO Na2O FE2O3 BA CU ZN

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH ROCK BETWEEN 0.500 AND 1.500 WILL BE SELECTED.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.

DATA TITLE : TAMHI CREEK AREA RECCE

VARIABLE : SI02

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
35.000+		0	0.00	0.00	35.000
40.000+		0	0.00	0.00	40.000
45.000+		0	0.00	0.00	45.000
50.000+	*****	6	15.00	15.00	50.000
55.000+	*****	15	37.50	52.50	55.000
60.000+	*****	5	12.50	65.00	60.000
65.000+	*****	1	2.50	67.50	65.000
70.000+	*****	3	7.50	75.00	70.000
75.000+	*****	4	10.00	85.00	75.000
80.000+	*****	6	15.00	100.00	80.000

Handwritten: ~~SI02~~ felsic SI02

VARIABLE: SI02
 NUMBER OF OBSERVATIONS: 40
 MINIMUM: 46.400
 MAXIMUM: 78.900
 MEAN: 59.550
 STANDARD ERROR OF MEAN: 1.683
 STANDARD DEVIATION: 10.647
 COEFFICIENT OF VARIATION: 17.879
 SKEWNESS: 0.670
 KURTOSIS: -1.202

 WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.

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DATA TITLE : TAMHI CREEK AREA RECCE
 VARIABLE : CaO

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000+		11	27.50	27.50	0.000
0.500+	*****	2	5.00	32.50	0.500
1.000+	*****	3	7.50	40.00	1.000
1.500+	*****	4	10.00	50.00	1.500
2.000+		0	0.00	50.00	2.000
2.500+	*****	3	7.50	57.50	2.500
3.000+	*****	2	5.00	62.50	3.000
3.500+	*****	2	5.00	67.50	3.500
4.000+	*****	5	12.50	80.00	4.000
4.500+	*****	3	7.50	87.50	4.500
5.000+		0	0.00	87.50	5.000
5.500+	*****	3	7.50	95.00	5.500
6.000+	*****	1	2.50	97.50	6.000
6.500+		0	0.00	97.50	6.500
7.000+		0	0.00	97.50	7.000
7.500+		0	0.00	97.50	7.500
8.000+	*****	0	0.00	97.50	8.000
8.500+	*****	1	2.50	100.00	8.500

Handwritten: felsic CaO

DATA TITLE : TAMHI CREEK AREA REDCE
VARIABLE : HGO

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000+	-----			0.00	0.000
0.500+	-----	1	1.23	1.23	0.500
1.000+	-----	2	2.47	3.70	1.000
1.500+	-----	2	2.47	6.17	1.500
2.000+	-----	2	2.47	8.64	2.000
2.500+	-----	4	4.94	13.58	2.500
3.000+	-----	4	4.94	18.52	3.000
3.500+	-----	3	3.70	22.22	3.500
4.000+	-----	3	3.70	25.93	4.000
4.500+	-----	6	7.41	33.33	4.500
5.000+	-----	3	3.70	37.04	5.000
5.500+	-----	6	7.41	44.44	5.500
6.000+	-----	8	9.88	54.32	6.000
6.500+	-----	5	6.17	60.49	6.500
7.000+	-----	7	8.64	69.14	7.000
7.500+	-----	6	7.41	76.54	7.500
8.000+	-----	6	7.41	83.95	8.000
8.500+	-----	2	2.47	86.42	8.500
9.000+	-----	2	2.47	88.89	9.000
9.500+	-----	1	1.23	90.12	9.500
10.000+	-----	3	3.70	93.83	10.000
10.500+	-----	2	2.47	96.30	10.500
11.000+	-----	1	1.23	97.53	11.000
11.500+	-----	2	2.47	100.00	11.500

Mafic MgO

VARIABLE: HGO
NUMBER OF OBSERVATIONS: 81
MINIMUM: 0.350
MAXIMUM: 11.300
MEAN: 5.714
STANDARD ERROR OF MEAN: 0.290
STANDARD DEVIATION: 2.610
COEFFICIENT OF VARIATION: 45.880
SKEWNESS: 0.000
KURTOSIS: -0.576

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
R0K BETWEEN 2.500 AND 3.500
WILL BE SELECTED.

DATA TITLE : TAMHI CREEK AREA REDCE
VARIABLE : HGO

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000+	-----			0.00	0.000
0.500+	-----	1	2.50	2.50	0.500
1.000+	-----	2	5.00	7.50	1.000
1.500+	-----	1	2.50	10.00	1.500
2.000+	-----	2	5.00	15.00	2.000
2.500+	-----	2	5.00	20.00	2.500
3.000+	-----	3	7.50	27.50	3.000
3.500+	-----	3	7.50	35.00	3.500
4.000+	-----	3	7.50	42.50	4.000
4.500+	-----	4	10.00	52.50	4.500
5.000+	-----	3	7.50	60.00	5.000
5.500+	-----	5	12.50	72.50	5.500
6.000+	-----	2	5.00	77.50	6.000
6.500+	-----	3	7.50	85.00	6.500
7.000+	-----	1	2.50	87.50	7.000
7.500+	-----	0	0.00	87.50	7.500
8.000+	-----	1	2.50	90.00	8.000
8.500+	-----	2	5.00	95.00	8.500
9.000+	-----	0	0.00	95.00	9.000
9.500+	-----	0	0.00	95.00	9.500
10.000+	-----	2	5.00	100.00	10.000

Felsic MgO

VARIABLE: HGO
NUMBER OF OBSERVATIONS: 40
MINIMUM: 0.390
MAXIMUM: 9.720
MEAN: 4.440
STANDARD ERROR OF MEAN: 0.365
STANDARD DEVIATION: 2.307
COEFFICIENT OF VARIATION: 51.952
SKEWNESS: 0.364
KURTOSIS: -0.395

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.
WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.

DATA TITLE : TAMHI CREEK AREA RECCE
 VARIABLE : NA20

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000		0	0.00	0.00	0.000
0.500		0	0.00	0.00	0.500
1.000		0	0.00	0.00	1.000
1.500		0	0.00	0.00	1.500
2.000		0	0.00	0.00	2.000
2.500	*****	1	2.50	2.50	2.500
3.000	*****	4	10.00	12.50	3.000
3.500	*****	3	7.50	20.00	3.500
4.000	*****	7	17.50	37.50	4.000
4.500	*****	6	15.00	52.50	4.500
5.000	*****	4	10.00	62.50	5.000
5.500	*****	9	22.50	85.00	5.500
6.000	*****	5	12.50	97.50	6.000
6.500	*****	0	0.00	97.50	6.500
7.000	*****	1	2.50	100.00	7.000

Felsic Na₂O

VARIABLE: NA20
 NUMBER OF OBSERVATIONS: 40
 MINIMUM: 2.180
 MAXIMUM: 6.660
 MEAN: 4.423
 STANDARD ERROR OF MEAN: 0.167
 STANDARD DEVIATION: 1.055
 COEFFICIENT OF VARIATION: 23.845
 SKEWNESS: -0.139
 KURTOSIS: -0.828

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN, **
 SAMPLES WITH
 ROCK BETWEEN 2.500 AND 3.500
 WILL BE SELECTED.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN, **
 SAMPLES WITH
 ROCK BETWEEN 1.500 AND 2.500
 WILL BE SELECTED.

DATA TITLE : TAMHI CREEK AREA RECCE
 VARIABLE : NA20

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000		0	0.00	0.00	0.000
0.500		0	0.00	0.00	0.500
1.000	***	1	1.23	1.23	1.000
1.500	*****	5	6.17	7.41	1.500
2.000	*****	2	2.47	9.88	2.000
2.500	*****	7	8.64	18.52	2.500
3.000	*****	4	4.94	23.46	3.000
3.500	*****	9	11.11	34.57	3.500
4.000	*****	7	8.64	43.21	4.000
4.500	*****	17	20.99	64.20	4.500
5.000	*****	7	8.64	72.84	5.000
5.500	*****	11	13.58	86.42	5.500
6.000	*****	8	9.88	96.30	6.000
6.500	***	2	2.47	98.77	6.500
7.000	***	1	1.23	100.00	7.000

Mafic Na₂O

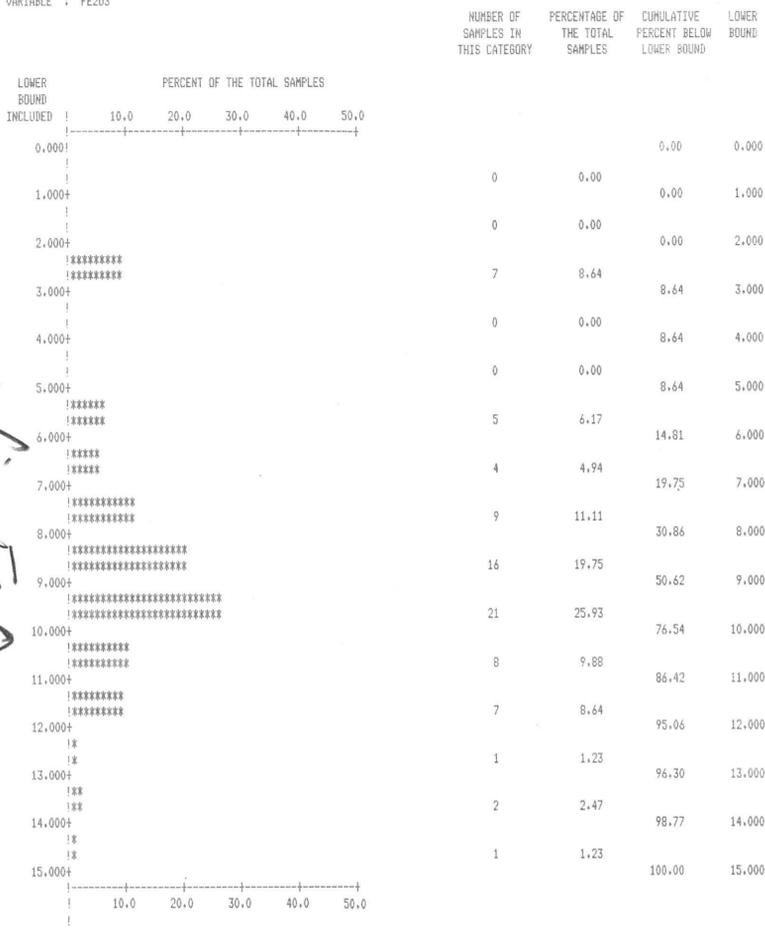
VARIABLE: NA20
 NUMBER OF OBSERVATIONS: 81
 MINIMUM: 0.647
 MAXIMUM: 6.700
 MEAN: 3.955
 STANDARD ERROR OF MEAN: 0.155
 STANDARD DEVIATION: 1.392
 COEFFICIENT OF VARIATION: 35.193
 SKEWNESS: -0.376
 KURTOSIS: -0.591

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 THE SAME TRANSFORMATIONS AND SELECTIONS AS LAST RUN WILL BE USED IN THIS RUN.

DATA TITLE : TAMHI CREEK AREA RECCE

VARIABLE : FE203



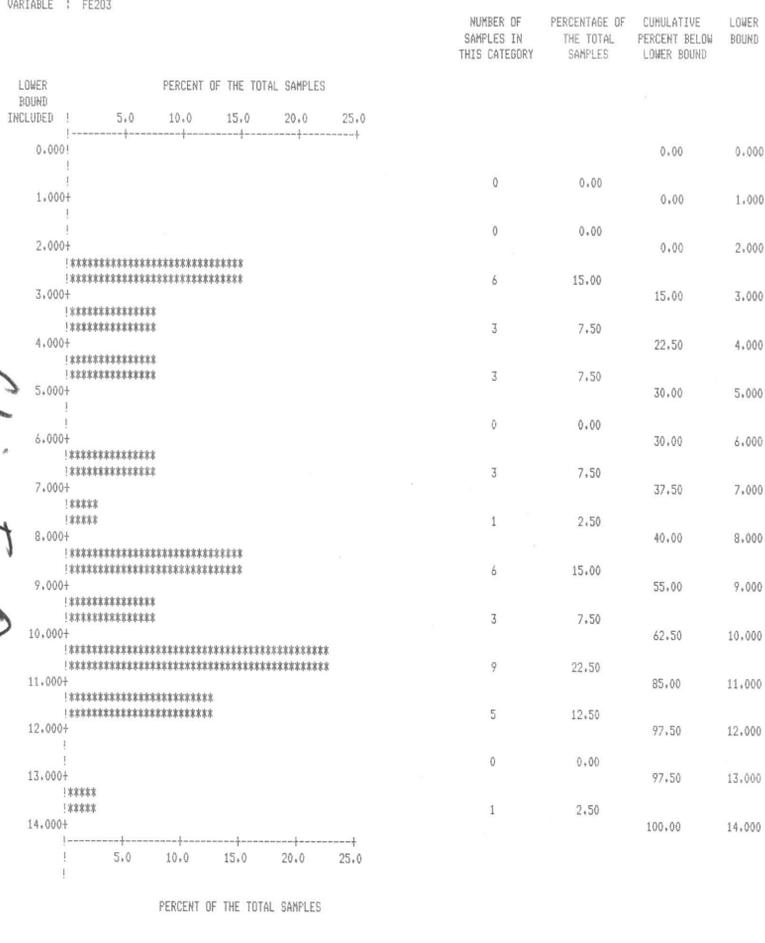
mafic Fe2O3

VARIABLE: FE203
 NUMBER OF OBSERVATIONS: 81
 MINIMUM: 2.270
 MAXIMUM: 14.100
 MEAN: 8.565
 STANDARD ERROR OF MEAN: 0.286
 STANDARD DEVIATION: 2.576
 COEFFICIENT OF VARIATION: 30.078
 SKEWNESS: -0.734
 KURTOSIS: 0.564

 WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **
 SAMPLES WITH
 ROCK BETWEEN 2.500 AND 3.500
 WILL BE SELECTED.

DATA TITLE : TAMHI CREEK AREA RECCE
 VARIABLE : FE203



felsic Fe2O3

VARIABLE: FE203
 NUMBER OF OBSERVATIONS: 40
 MINIMUM: 2.460
 MAXIMUM: 13.000
 MEAN: 7.762
 STANDARD ERROR OF MEAN: 0.510
 STANDARD DEVIATION: 3.227
 COEFFICIENT OF VARIATION: 41.568
 SKEWNESS: -0.351
 KURTOSIS: -1.365

 WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.
 NO TRANSFORMATIONS OR SELECTIONS IN THIS RUN.

DATA TITLE : TAMIMI CREEK AREA RECDE

VARIABLE : BA

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000+	0.56	1	0.56	0.56	0.000
100.000+	33.89	61	33.89	34.44	100.000
200.000+	23.33	42	23.33	57.78	200.000
300.000+	16.67	30	16.67	74.44	300.000
400.000+	13.33	24	13.33	87.78	400.000
500.000+	3.89	7	3.89	91.67	500.000
600.000+	4.44	8	4.44	96.11	600.000
700.000+	0.56	1	0.56	96.67	700.000
800.000+	0.56	1	0.56	97.22	800.000
900.000+	0.56	1	0.56	97.78	900.000
1000.000+	0.00	0	0.00	97.78	1000.000
1100.000+	1.11	2	1.11	98.89	1100.000
1200.000+	0.56	1	0.56	99.44	1200.000
1300.000+	0.00	0	0.00	99.44	1300.000
1400.000+	0.00	0	0.00	99.44	1400.000
1500.000+	0.00	0	0.00	99.44	1500.000
1600.000+	0.00	0	0.00	99.44	1600.000
1700.000+	0.00	0	0.00	99.44	1700.000
1800.000+	0.56	1	0.56	100.00	1800.000

Ba
all r

VARIABLE: BA

NUMBER OF OBSERVATIONS: 180

MINIMUM: -10.000

MAXIMUM: 1780.000

MEAN: 220.389

STANDARD ERROR OF MEAN: 16.968

STANDARD DEVIATION: 227.644

COEFFICIENT OF VARIATION: 103.292

SKEWNESS: 2.955

KURTOSIS: 13.652

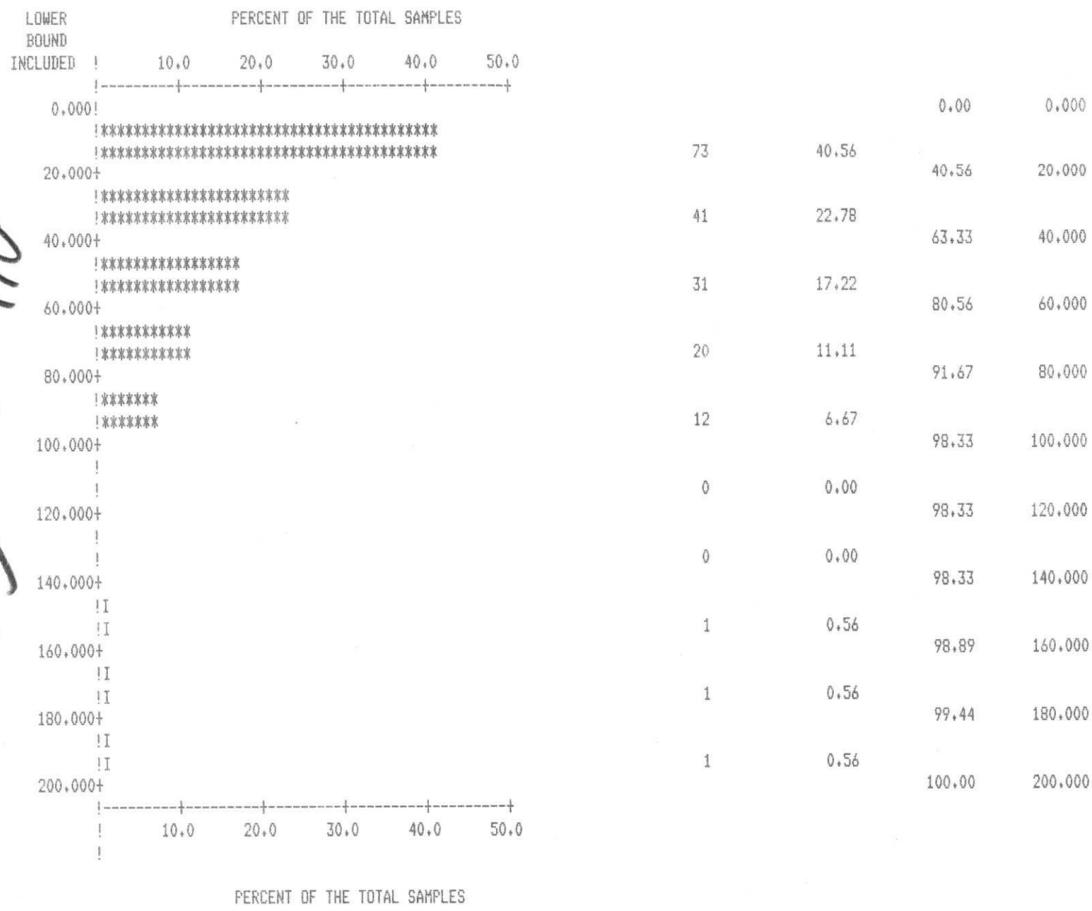
WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

NO TRANSFORMATIONS OR SELECTIONS IN THIS RUN.

DATA TITLE : TAMIHI CREEK AREA RECCE

VARIABLE : CU

NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
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All rx Cu

VARIABLE: CU

NUMBER OF OBSERVATIONS: 180

MINIMUM: 1.000

MAXIMUM: 196.000

MEAN: 34.106

STANDARD ERROR OF MEAN: 2.327

STANDARD DEVIATION: 31.222

COEFFICIENT OF VARIATION: 91.544

SKWNESS: 1.672

KURTOSIS: 4.793

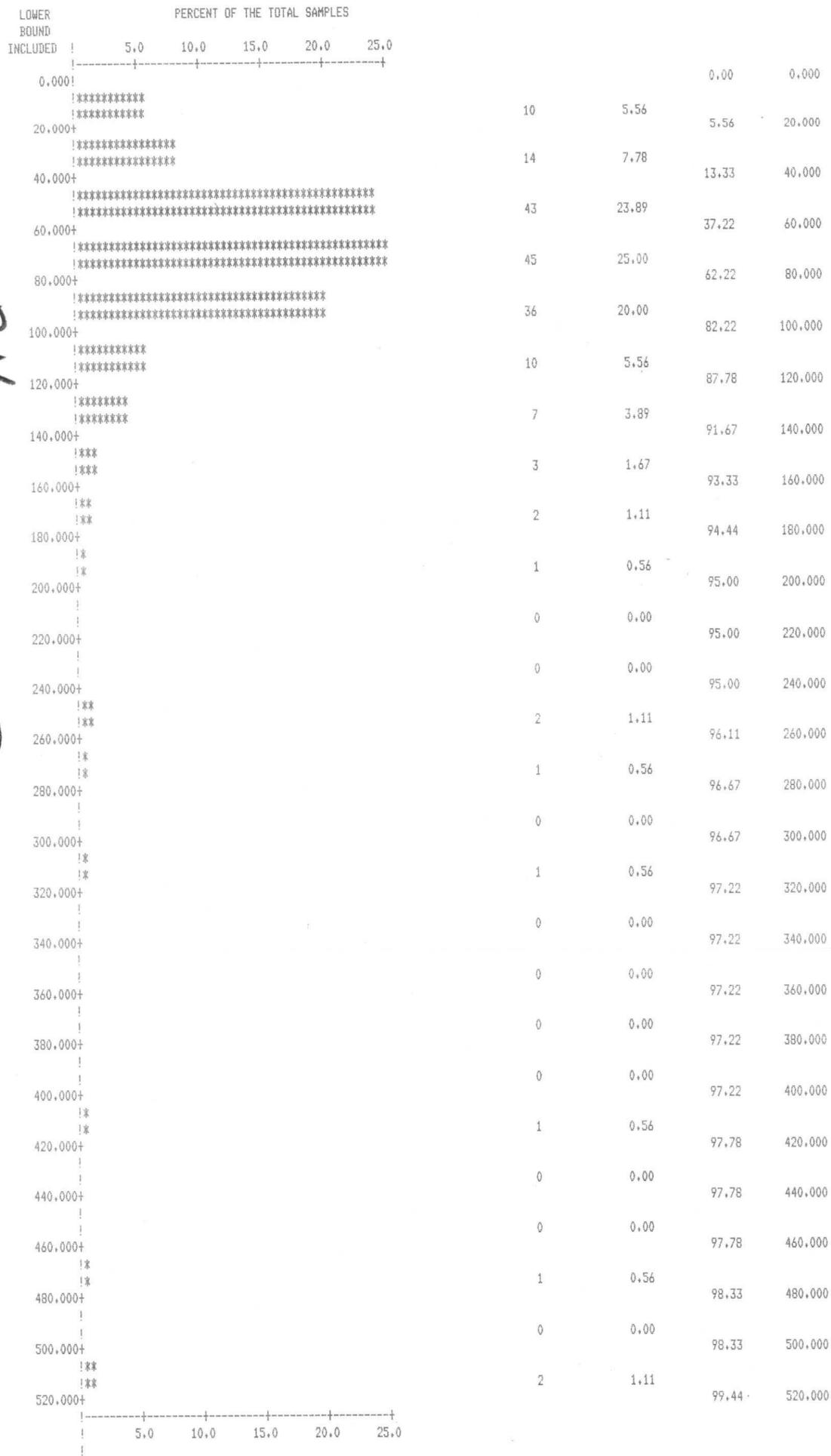
WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

NO TRANSFORMATIONS OR SELECTIONS IN THIS RUN.

DATA TITLE : TAMIHI CREEK AREA RECCE

VARIABLE : ZN

NUMBER OF SAMPLES IN THIS CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
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All rx. ZN

PERCENT OF THE TOTAL SAMPLES

DATA ABOVE RANGE OF HISTOGRAM

1	0.56	*****
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** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
ZN BETWEEN 150,000 AND 1500,000
WILL BE SELECTED.

SAMPLE NO.	ROCK	SI02	CAO	H6D	NA2O	FE2O3	BA	CU	ZN
TC3	2.000	51.600	1.110	4.860	4.830	6.840	340.000	57.000	240.000
TC121	2.000	52.600	0.256	9.320	4.180	10.500	20.000	19.000	176.000
TC20	3.000	52.600	4.030	4.690	5.880	10.200	240.000	67.000	1230.000
TC21	3.000	59.000	3.060	3.760	4.100	8.120	570.000	66.000	410.000
TC132	2.000	57.300	3.330	3.170	5.040	9.870	120.000	38.000	510.000
TC133	3.000	74.400	0.729	0.534	5.150	2.860	210.000	20.000	300.000
TC252	-1234.567	54.800	0.329	6.550	4.460	11.300	30.000	26.000	189.000
TC253	3.000	62.900	0.208	6.600	4.720	6.560	10.000	56.000	460.000
TC125	1.000	51.300	0.602	10.500	3.800	11.000	30.000	16.000	260.000
TC216	2.000	58.400	0.271	7.130	3.210	8.440	640.000	196.000	510.000
TC223	3.000	49.800	4.520	9.570	4.480	8.850	120.000	69.000	240.000
TC235	2.000	53.500	3.360	5.950	4.080	7.970	170.000	24.000	160.000

high Zn

NUMBERS THAT ARE CODED -1234.567 REPRESENT "SPECIAL VALUES".
THESE VALUES WILL BE EXCLUDED FROM ALL CALCULATIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
CU BETWEEN 100,000 AND 10000,000
WILL BE SELECTED.

SAMPLE NO.	ROCK	SI02	CAO	H6D	NA2O	FE2O3	BA	CU	ZN
TC29	3.000	57.500	1.730	4.680	5.080	11.000	120.000	140.000	47.000
TC216	2.000	58.400	0.271	7.130	3.210	8.440	640.000	196.000	510.000
TC232	2.000	52.800	2.830	7.810	1.460	9.050	390.000	171.000	63.000

high Cu's

NUMBERS THAT ARE CODED -1234.567 REPRESENT "SPECIAL VALUES".
THESE VALUES WILL BE EXCLUDED FROM ALL CALCULATIONS IN THE
MICRO-GAS SYSTEM.

WE WILL NOW MAKE ANOTHER PASS THROUGH THE DATA.

A NEW SET OF TRANSFORMATIONS AND SELECTIONS WILL BE SPECIFIED.

** THE FOLLOWING SELECTION CRITERIA WILL BE SATISFIED IN THIS RUN. **

SAMPLES WITH
BA BETWEEN 600,000 AND 10000,000
WILL BE SELECTED.

SAMPLE NO.	ROCK	SI02	CAO	H6D	NA2O	FE2O3	BA	CU	ZN
TC101	3.000	49.600	3.680	6.040	5.010	6.610	1050.000	57.000	45.000
TC22	6.000	62.500	0.684	2.880	1.340	8.980	1140.000	43.000	98.000
TC44	5.000	71.900	2.100	1.890	1.810	3.120	760.000	5.000	62.000
TC155	-1234.567	64.600	3.250	1.910	2.260	6.710	870.000	17.000	93.000
TC264	6.000	65.000	1.110	3.180	2.480	8.480	1050.000	25.000	85.000
TC216	2.000	58.400	0.271	7.130	3.210	8.440	640.000	196.000	510.000
TC242	6.000	71.700	2.140	2.120	2.160	6.230	1780.000	68.000	76.000

high Ba's

NUMBERS THAT ARE CODED -1234.567 REPRESENT "SPECIAL VALUES".
T