Tam O'Shanter North

19:09:49 TAM NORTH 825603 06/22/91

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = AU Unit = PPB N = 28

Mean =	1.6756	Min =	1.3979	1st Quartile =	1.5441
Std. Dev. =	0.2254	Max =	2.3617	Median =	1.6532
CV % =	13.4523	Skewness =	1.1592	3rd Quartile =	1.8129

Anti-Log Mean = 47.386 Anti-Log Std. Dev. : (-) 28.199
(+) 79.627

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0688)
0.00	1.72	23.095	1.3635	
7.14	8.62	27.062	1.4324	**
17.86	25.86	31.710	1.5012	*****
21.43	46.55	37.157	1.5700	******
0.00	46.55	43.540	1.6389	
21.43	67.24	51.019	1.7077	******
3.57	70.69	59.782	1.7766	*
7.14	77.59	70.051	1.8454	**
7.14	84.48	82.083	1.9143	**
3.57	87.93	96.183	1.9831	*
3.57	91.38	112.704	2.0519	*
3.57	94.83	132.063	2.1208	*
0.00	94.83	154.747	2.1896	
0.00	94.83	181.328	2.2585	
0.00	94.83	212.475	2.3273	
3.57	98.28	248.971	2.3961	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = AU Unit = PPB N = 28

Mean =	55.536	Min =	25.000	1st Quartile =	35.000
Std. Dev. =	41.306	Max =	230.000	Median =	45.000
CV % =	74.377	Skewness =	2.869	3rd Quartile =	65.000

%	cum %	cls int	(# of bins = 15 - bin size = 14.643)
0.00	1.72	17.679	
25.00	25.86	32.321	*******
35.71	60.34	46.964	**********
14.29	74.14	61.607	****
7.14	81.03	76.250	**
7.14	87.93	90.893	**
3.57	91.38	105.536	*
3.57	94.83	120.179	*
0.00	94.83	134.821	
0.00	94.83	149.464	
0.00	94.83	164.107	
0.00	94.83	178.750	
0.00	94.83	193.393	
0.00	94.83	208.036	
0.00	94.83	222.679	
3.57	98.28	237.321	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = AU Unit = PPB N = 414

Mean =	9.599	Min =	5.000	1st Quartile =	5.000
Std. Dev. =	16.562	Max =	230.000	Median =	5.000
CV % =	172.541	Skewness =	7.729	3rd Quartile =	5.000

%	cum %	cls int	(# of bins = 27 - bin size = 8.654)
0.00	0.12	0.673	
77.54	77.47	9.327	********** --> 144
13.77	91.20	17.981	**********
2.42	93.61	26.635	****
2.66	96.27	35.288	*****
0.00	96.27	43.942	
1.45	97.71	52.596	***
0.48	98.19	61.250	*
0.24	98.43	69.904	
0.24	98.67	78.558	
0.48	99.16	87.212	*
0.00	99.16	95.865	
0.24	99.40	104.519	
0.00	99.40	113.173	
0.24	99.64	121.827	
0.00	99.64	130.481	
0.00	99.64	139.135	
0.00	99.64	147.788	
0.00	99.64	156.442	
0.00	99.64	165.096	
0.00	99.64	173.750	
0.00	99.64	182.404	
0.00	99.64	191.058	
0.00	99.64	199.712	
0.00	99.64	208.365	
0.00	99.64	217.019	
0.00	99.64	225.673	
0.24	99.88	234.327	

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = AG Unit = PPM N = 414

Mean =	0.726	Min =	0.100	1st Quartile =	0.600
Std. Dev. =	0.287	Max =	1.900	Median =	0.700
CV % =	39.563	Skewness =	0.020	3rd Quartile =	0.900

%	cum %	cls int	(# of bins = 27 - bin size = 0.069)
0.00	0.12	0.065	
7.25	7.35	0.135	**********
0.24	7.59	0.204	
0.00	7.59	0.273	
1.21	8.80	0.342	**
4.83	13.61	0.412	*********
0.00	13.61	0.481	
8.45	22.05	0.550	**********
10.87	32.89	0.619	**********
0.00	32.89	0.688	
19.57	52.41	0.758	**********
18.60	70.96	0.827	**********
0.00	70.96	0.896	
10.14	81.08	0.965	**********
9.42	90.48	1.035	**********
4.35	94.82	1.104	********
0.00	94.82	1.173	
1.69	96.51	1.242	***
1.69	98.19	1.312	***
0.00	98.19	1.381	
0.48	98.67	1.450	*
0.72	99.40	1.519	*
0.00	99.40	1.588	
0.00	99.40	1.658	
0.00	99.40	1.727	
0.00	99.40	1.796	
0.00	99.40	1.865	
0.48	99.88	1.935	*

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = AG Unit = PPM N = 414

Mean =	-0.1938	Min =	-1.0000	1st Quartile =	-0.2218
Std. Dev. =	0.2607	Max =	0.2788	Median =	-0.1549
CV % =	134.4880	Skewness =	-2.0121	3rd Quartile =	-0.0458

Anti-Log Mean = 0.640 Anti-Log Std. Dev. : (-) 0.351
(+) 1.166

%	cum %	antilog	cls int	(# of bins = 27 - bin size = 0.0492)
0.00	0.12	0.094	-1.0246	
7.25	7.35	0.106	-0.9754	**********
0.00	7.35	0.119	-0.9262	
0.00	7.35	0.133	-0.8770	
0.00	7.35	0.149	-0.8279	
0.00	7.35	0.166	-0.7787	
0.00	7.35	0.186	-0.7295	
0.24	7.59	0.209	-0.6803	
0.00	7.59	0.234	-0.6311	
0.00	7.59	0.262	-0.5819	
0.00	7.59	0.293	-0.5328	
1.21	8.80	0.328	-0.4836	**
0.00	8.80	0.368	-0.4344	
4.83	13.61	0.412	-0.3852	*********
0.00	13.61	0.461	-0.3360	
8.45	22.05	0.517	-0.2868	**********
0.00	22.05	0.579	-0.2377	
10.87	32.89	0.648	-0.1885	**********
19.57	52.41	0.726	-0.1393	**********
18.60	70.96	0.813	-0.0901	**********
10.14	81.08	0.910	-0.0409	**********
9.42	90.48	1.019	0.0082	**********
4.35	94.82	1.141	0.0574	********
1.69	96.51	1.278	0.1066	***
2.17	98.67	1.432	0.1558	****
0.72	99.40	1.603	0.2050	*
0.00	99.40	1.795	0.2542	
0.48	99.88	2.011	0.3033	*

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = AG Unit = PPM N = 376

Mean =	0.777	Min =	0.400	1st Quartile =	0.600
Std. Dev. =	0.216	Max =	1.500	Median =	0.800
CV % =	27.737	Skewness =	0.575	3rd Quartile =	0.900

%	cum %	cls int	(# of bins = 26 - bin size = 0.044)
0.00	0.13	0.378	
5.32	5.44	0.422	**********
0.00	5.44	0.466	
9.31	14.72	0.510	******************
0.00	14.72	0.554	
0.00	14.72	0.598	
11.97	26.66	0.642	**********************
0.00	26.66	0.686	
21.54	48.14	0.730	******************************** --> 40
0.00	48.14	0.774	
20.48	68.57	0.818	**
0.00	68.57	0.862	
11.17	79.71	0.906	**********************
0.00	79.71	0.950	
0.00	79.71	0.994	
10.37	90.05	1.038	********************
0.00	90.05	1.082	
4.79	94.83	1.126	*********
0.00	94.83	1.170	
1.86	96.68	1.214	****
0.00	96.68	1.258	
1.86	98.54	1.302	****
0.00	98.54	1.346	
0.00	98.54	1.390	
0.53	99.07	1.434	*
0.00	99.07	1.478	
0.80	99.87	1.522	**

0 1 2 3 4

Each "*" represents approximately 2.0 observations.

##########

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = TAMSOILS.PPL

Variable = AG Unit = PPM N = 376

Transform = Logarithmic Number of Populations = 1

# of Missing Observations = 0.

36 Observations Were Below the Minimum Value of 0.3000
2 Observations Were Above the Maximum Value of 1.6000

Class Interval Data Chi Squared Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.706	-	0.531	100.00
		+	0.940	

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds
1	0.399 1.250

##########

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = BI Unit = PPM N = 414

Mean =	0.7052	Min =	-0.5229	1st Quartile =	0.6021
Std. Dev. =	0.1419	Max =	1.0792	Median =	0.6990
CV % =	20.1282	Skewness =	-2.3764	3rd Quartile =	0.7782

Anti-Log Mean = 5.072 Anti-Log Std. Dev. : (-) 3.658
(+) 7.032

%	cum %	antilog	cls int	(# of bins = 27 - bin size = 0.0616)
0.00	0.12	0.279	-0.5537	
0.24	0.36	0.322	-0.4921	
0.00	0.36	0.371	-0.4305	
0.00	0.36	0.428	-0.3688	
0.00	0.36	0.493	-0.3072	
0.00	0.36	0.568	-0.2456	
0.00	0.36	0.655	-0.1840	
0.00	0.36	0.754	-0.1224	
0.00	0.36	0.869	-0.0607	
0.48	0.84	1.002	0.0009	*
0.00	0.84	1.155	0.0625	
0.00	0.84	1.331	0.1241	
0.00	0.84	1.534	0.1857	
0.00	0.84	1.767	0.2473	
1.69	2.53	2.037	0.3090	***
0.00	2.53	2.347	0.3706	
0.00	2.53	2.705	0.4322	
4.83	7.35	3.118	0.4938	*********
0.00	7.35	3.593	0.5554	
19.08	26.39	4.140	0.6170	************************************
0.00	26.39	4.772	0.6787	
33.09	59.40	5.499	0.7403	********************************** --> 61
24.40	83.73	6.337	0.8019	********************************** --> 45
11.11	94.82	7.303	0.8635	**********************
1.93	96.75	8.417	0.9251	****
1.93	98.67	9.700	0.9868	****
0.72	99.40	11.178	1.0484	*
0.48	99.88	12.882	1.1100	*

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = BI Unit = PPM N = 414

Mean =	5.303	Min =	0.300	1st Quartile =	4.000
Std. Dev. =	1.473	Max =	12.000	Median =	5.000
CV % =	27.780	Skewness =	0.586	3rd Quartile =	6.000

%	cum %	cls int	(# of bins = 27 - bin size = 0.450)
0.00	0.12	0.075	
0.24	0.36	0.525	
0.00	0.36	0.975	
0.48	0.84	1.425	*
0.00	0.84	1.875	
1.69	2.53	2.325	***
0.00	2.53	2.775	
4.83	7.35	3.225	*********
0.00	7.35	3.675	
19.08	26.39	4.125	************************************
0.00	26.39	4.575	
33.09	59.40	5.025	******************************** --> 61
0.00	59.40	5.475	
0.00	59.40	5.925	
24.40	83.73	6.375	********************************* --> 45
0.00	83.73	6.825	
11.11	94.82	7.275	**********************
0.00	94.82	7.725	
1.93	96.75	8.175	****
0.00	96.75	8.625	
1.93	98.67	9.075	****
0.00	98.67	9.525	
0.00	98.67	9.975	
0.72	99.40	10.425	*
0.00	99.40	10.875	
0.00	99.40	11.325	
0.00	99.40	11.775	
0.48	99.88	12.225	*

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = AS Unit = PPM N = 414

Mean =	0.1317	Min =	0.0000	1st Quartile =	0.0000
Std. Dev. =	0.3676	Max =	4.2266	Median =	0.0000
CV % =	279.2104	Skewness =	5.0758	3rd Quartile =	0.0000

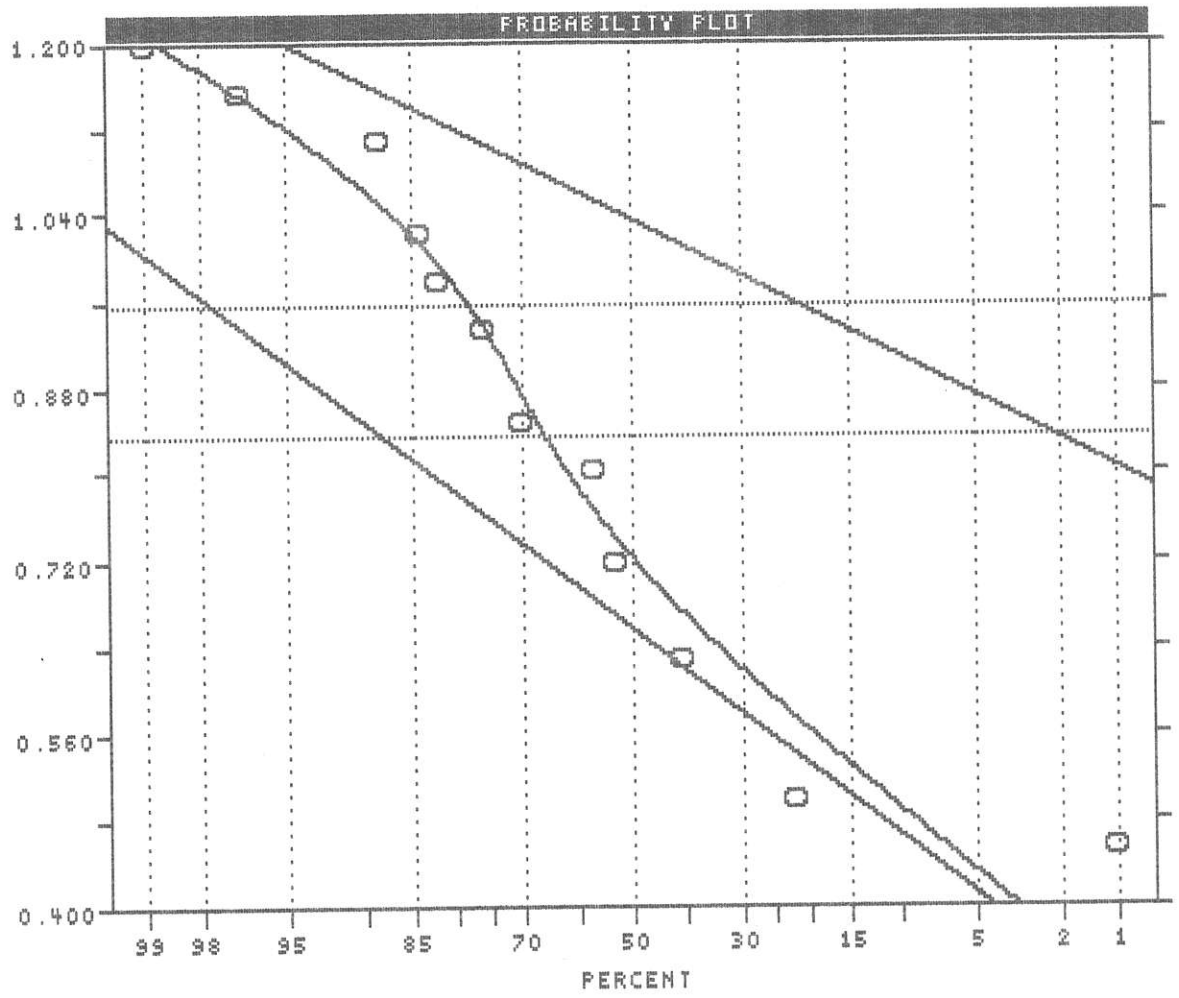
Anti-Log Mean = 1.354 Anti-Log Std. Dev. : (-) 0.581
(+) 3.157

%	cum %	antilog	cls int	(# of bins = 27 - bin size = 0.1626)
0.00	0.12	0.829	-0.0813	
81.88	81.81	1.206	0.0813	********** --> 152
0.00	81.81	1.753	0.2438	
5.31	87.11	2.549	0.4064	**********
2.42	89.52	3.707	0.5690	****
3.62	93.13	5.389	0.7315	*******
1.93	95.06	7.836	0.8941	****
1.69	96.75	11.393	1.0566	***
1.69	98.43	16.566	1.2192	***
0.24	98.67	24.086	1.3818	
0.48	99.16	35.021	1.5443	*
0.00	99.16	50.921	1.7069	
0.24	99.40	74.039	1.8695	
0.00	99.40	107.651	2.0320	
0.00	99.40	156.524	2.1946	
0.24	99.64	227.584	2.3571	
0.00	99.64	330.905	2.5197	
0.00	99.64	481.133	2.6823	
0.00	99.64	699.563	2.8448	
0.00	99.64	1017.158	3.0074	
0.00	99.64	1478.938	3.1699	
0.00	99.64	2150.361	3.3325	
0.00	99.64	3126.605	3.4951	
0.00	99.64	4546.053	3.6576	
0.00	99.64	6609.918	3.8202	
0.00	99.64	9610.757	3.9828	
0.00	99.64	13973.948	4.1453	
0.24	99.88	20317.987	4.3079	

0 1 2 3 4

Each "*" represents approximately 2.2 observations.

TAM NORTH



LOGARITHMIC VALUES

VARIABLE = AS
UNIT = PPM
N = 47
N CI = 17

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.6547	0.1497	73.5
2	1.0327	0.0989	26.5

Pop.	THRESHOLDS	
1	0.3554	0.9541
2	0.8348	1.2306

RAW DATA ML
PARAMETER ESTIMATES

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = TAMSOILS.PPL

Variable = AS Unit = PPM N = 47
N CI = 17

Transform = Logarithmic Number of Populations = 2

# of Missing Observations = 0.

361 Observations Were Below the Minimum Value of 3.0000
6 Observations Were Above the Maximum Value of 16.0000

Raw Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = 7.776

Parameterized Degrees of Freedom = 3

Population	Mean		Std Dev	Percentage
1	4.516	-	3.199	73.50
		+	6.374	
2	10.782	-	8.586	26.50
		+	13.541	

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	2.267	8.997
2	6.836	17.006

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = TAMSOILS.PPL

Variable = BI Unit = PPM N = 379
N CI = 26

Transform = Logarithmic Number of Populations = 2

# of Missing Observations = 0.

30 Observations Were Below the Minimum Value of 3.0000
5 Observations Were Above the Maximum Value of 9.0750

==========

Class Interval Data Chi Squared Parameter Estimates

Population	Mean		Std Dev	Percentage
1	5.056	-	4.240	94.84
		+	6.029	
2	7.023	-	6.667	5.16
		+	7.398	

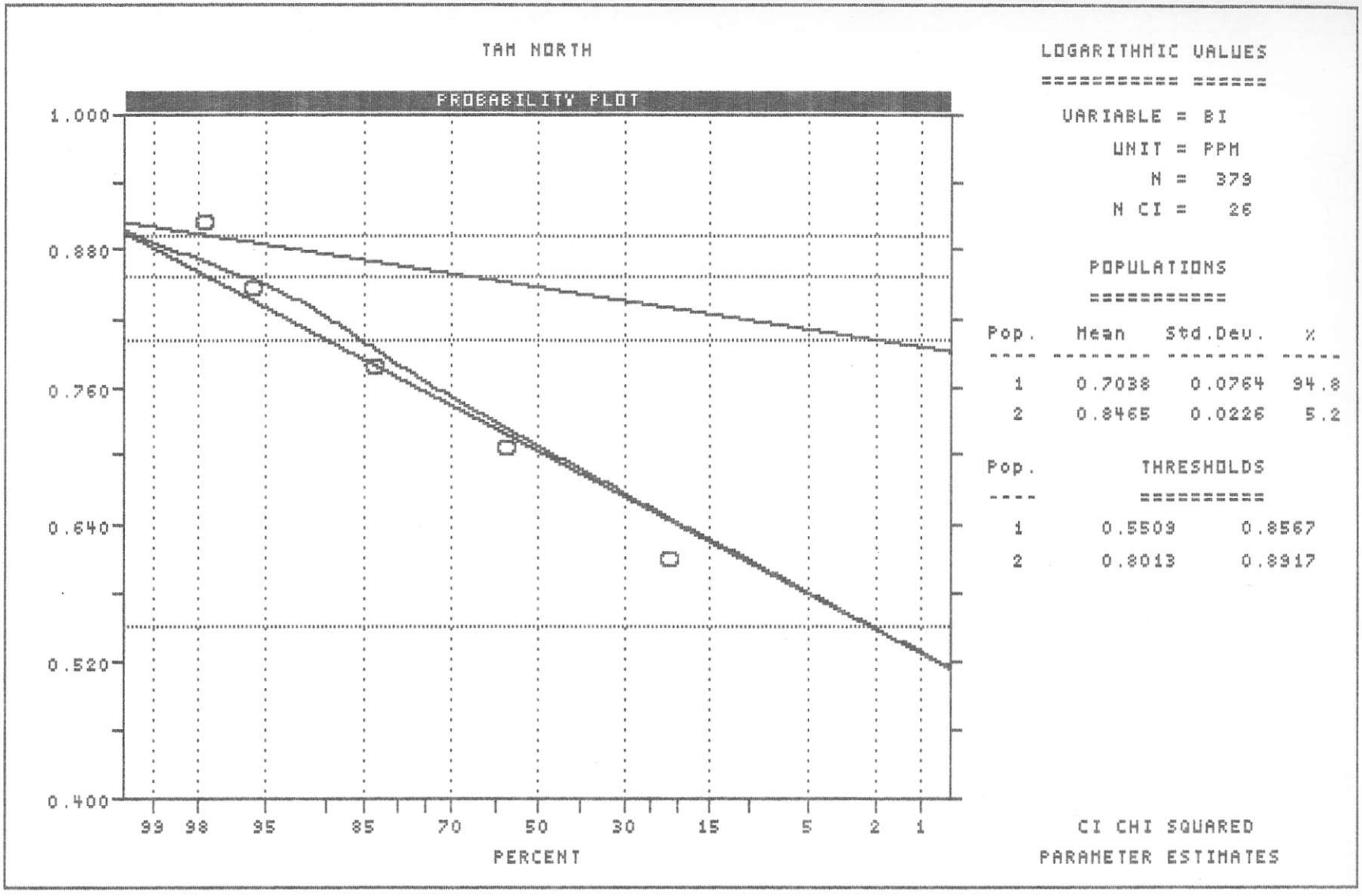
==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	3.555	7.189
2	6.329	7.794

##



LOGARITHMIC VALUES

VARIABLE = BI
UNIT = PPM
N = 379
N CI = 26

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.7038	0.0764	94.8
2	0.8465	0.0226	5.2

Pop.	THRESHOLDS	
1	0.5509	0.8567
2	0.8013	0.8917

CI CHI SQUARED
PARAMETER ESTIMATES

	AG	AS	B	BA	BE	BI
AG	1.000 (414)	-0.136 (414)	0.226 (414)	0.040 (414)	0.205 (414)	0.007 (414)
AS		1.000 (414)	0.034 (414)	0.008 (414)	0.041 (414)	-0.112 (414)
B			1.000 (414)	0.027 (414)	0.128 (414)	-0.004 (414)
BA				1.000 (414)	-0.224 (414)	-0.140 (414)
BE					1.000 (414)	0.163 (414)
BI						1.000 (414)
CA						
CO						
CU						
K						
LI						
MG						
MN						
MO						
NA						
NI						
P						
PB						
SB						
SR						
TH						
U						
V						
ZN						
GA						
SN						
W						
CR						
AU						
HG						

	CA	CO	CU	K	LI	MG
CA	1.000 (414)	0.300 (414)	0.134 (414)	0.380 (414)	0.478 (414)	0.501 (414)
CO		1.000 (414)	0.351 (414)	0.280 (414)	0.150 (414)	0.826 (414)
CU			1.000 (414)	0.102 (414)	0.151 (414)	0.248 (414)
K				1.000 (414)	0.072 (414)	0.410 (414)
LI					1.000 (414)	0.223 (414)
MG						1.000 (414)
MN						
MO						
NA						
NI						
P						
PB						
SB						
SR						
TH						
U						
V						
ZN						
GA						
SN						
W						
CR						
AU						
HG						

	MN	MO	NA	NI	P	PB
MN	1.000 (414)	-0.025 (414)	0.310 (414)	0.148 (414)	0.159 (414)	0.207 (414)
MO		1.000 (414)	-0.058 (414)	0.133 (414)	-0.088 (414)	0.225 (414)
NA			1.000 (414)	-0.050 (414)	-0.046 (414)	0.133 (414)
NI				1.000 (414)	-0.014 (414)	-0.012 (414)
P					1.000 (414)	-0.235 (414)
PB						1.000 (414)
SB						
SR						
TH						
U						
V						
ZN						
GA						
SN						
W						
CR						
AU						
HG						

	SB	SR	TH
SB	1.000 (414)	0.025 (414)	0.153 (414)
SR		1.000 (414)	0.297 (414)
TH			1.000 (414)
U			
V			
ZN			
GA			
SN			
W			
CR			
AU			
HG			

	U	V	ZN	GA	SN	W
U	1.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)
V		1.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)
ZN			1.000 (414)	0.000 (414)	0.000 (414)	0.000 (414)
GA				1.000 (414)	0.000 (414)	0.000 (414)
SN					1.000 (414)	0.000 (414)
W						1.000 (414)
CR						
AU						
HG						

	CR	AU	HG
CR	1.000 (414)	0.000 (414)	0.000 (414)
AU		1.000 (414)	0.000 (414)
HG			1.000 (414)

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.