APPENDIX C

Blood Lead Summary Statistics and Test for Normality Results

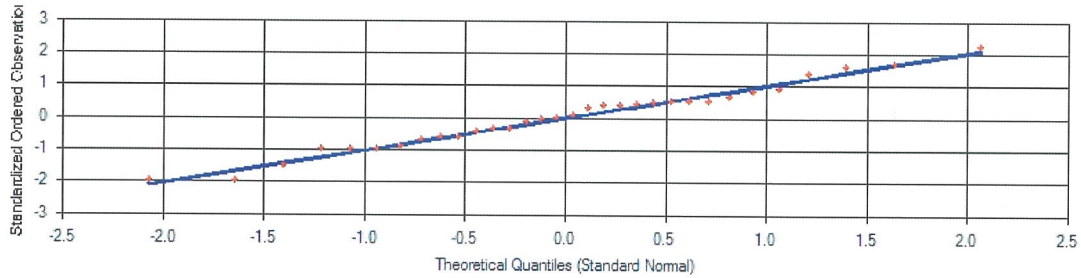
Summary Statistics: 2005 Blood Lead Levels

Area	n	Distribution Type	Mean/Geometric Mean*	St. Dev./Geo. St. Dev	Median	Minimum	25th Percentile	75th Percentile	Maximum
A	32	Lognormal	2.89	1.8	3.0	1.0	2.1	3.8	9.3
B	24	Lognormal	2.64	1.6	2.7	1.0	2.2	3.4	7.1
C	69	Lognormal	2.18	1.2	2.3	1.0	1.5	3.1	7.2
D	55	Lognormal	3.30	2.2	3.2	1.0	2.3	4.8	10.0
E	3	Normal	2.63	1.0	3.0	1.5	2.3	3.2	3.4
F	33	Normal	3.59	1.8	3.7	1.0	2.3	4.5	8.3
G	20	Normal	2.51	1.3	2.4	1.0	1.4	3.2	5.5
H	176	Not Normal	2.83	1.9	2.4	1.0	1.6	3.5	12.4
SU1	114	Lognormal	3.01	2.0	3.0	1.0	2.1	4.1	10.0
OU9	236	Not Normal	3.12	1.8	2.8	1.0	1.8	3.9	10.0
Lake County	412	Not Normal	2.99	1.8	2.6	1.0	1.8	3.7	12.4

Notes: * The mean, standard deviation, and upperconfidence limit on the mean are computed based on distributional assumptions consistent with the distribution type listed.

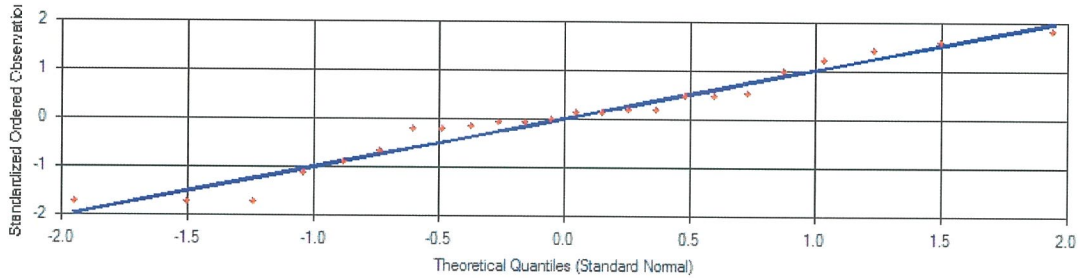
For non normally distributed data sets, including those with n<3, mean and standard deviation computed assuming the normal distribution; non-parametric methods used to compute the 95% UCL.

Lognormal Q-Q Plot for A



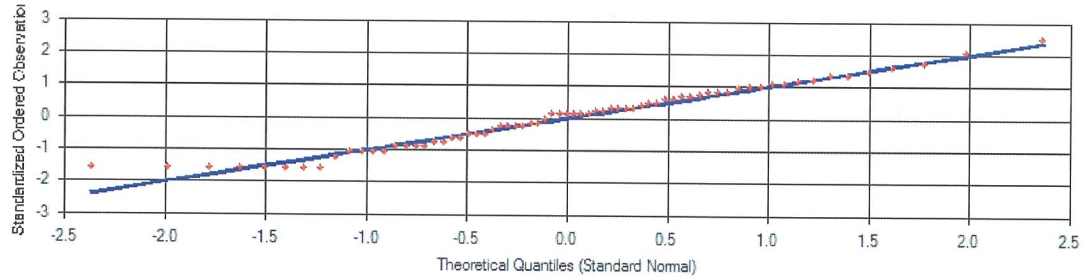
N = 32, Mean = 1.0612, Sd = 0.5305
Slope = 1.0180, Intercept = 0.0000, Correlation, R = 0.99162698
Shapiro-Wilk Statistic = 0.979, Critical Value(0.05) = 0.930, Data are Lognormal

Lognormal Q-Q Plot for B



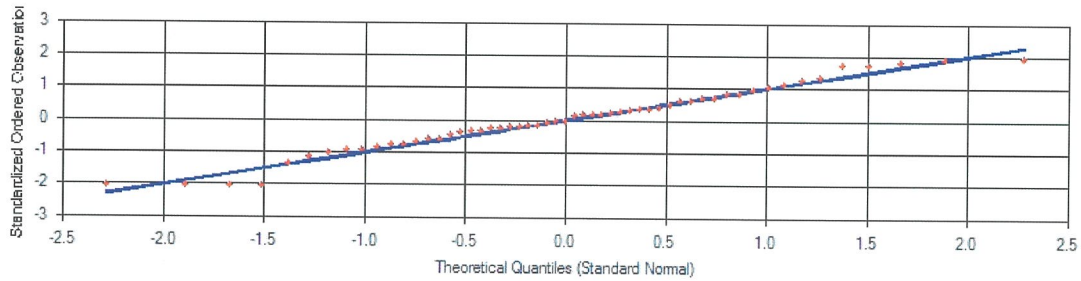
N = 24, Mean = 0.9696, Sd = 0.5489
Slope = 1.0137, Intercept = 0.0000, Correlation, R = 0.98122381
Shapiro-Wilk Statistic = 0.953, Critical Value(0.05) = 0.916, Data are Lognormal

Lognormal Q-Q Plot for C

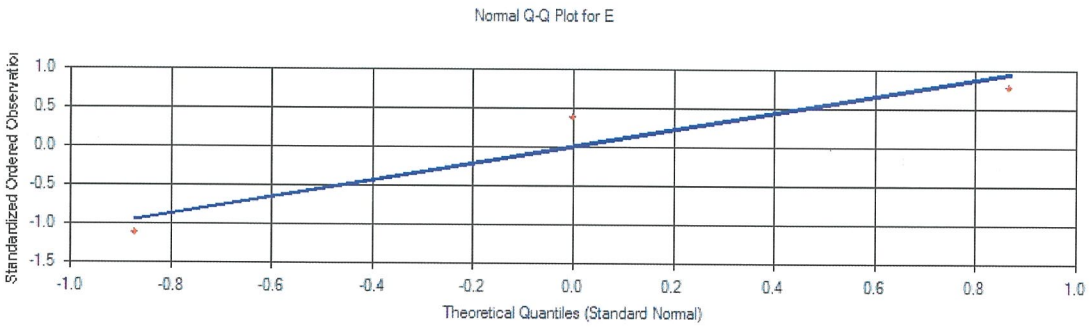


N = 69, Mean = 0.7783, Sd = 0.4821
Slope = 1.0040, Intercept = 0.0000, Correlation, R = 0.98946498
Lilliefors Statistic = 0.081, Critical Value(0.05) = 0.107, Data are Lognormal

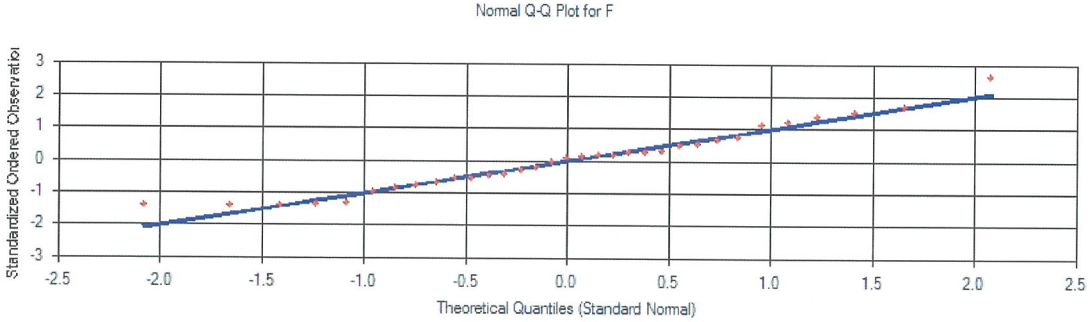
Lognormal Q-Q Plot for D



N = 55, Mean = 1.1941, Sd = 0.5729
Slope = 1.0080, Intercept = 0.0000, Correlation, R = 0.99066898
Lilliefors Statistic = 0.054, Critical Value(0.05) = 0.119, Data are Lognormal

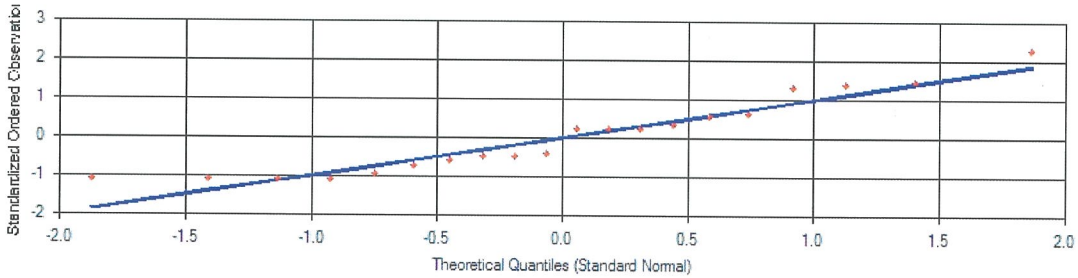


N = 3, Mean = 2.6333, Sd = 1.0017
Slope = 1.0909, Intercept = 0.0000, Correlation, R = 0.94842061
Shapiro-Wilk Statistic = 0.899, Critical Value(0.05) = 0.767, Data are Normal



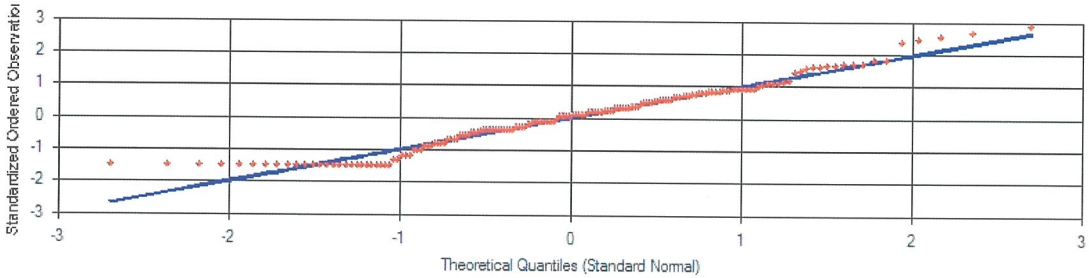
N = 33, Mean = 3.5864, Sd = 1.7954
Slope = 1.0086, Intercept = 0.0000, Correlation, R = 0.98303846
Shapiro-Wilk Statistic = 0.960, Critical Value(0.05) = 0.931, Data are Normal

Normal Q-Q Plot for G



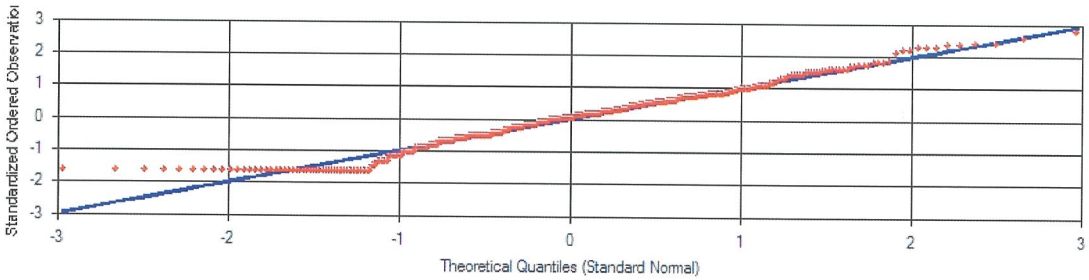
N = 20, Mean = 2.5050, Sd = 1.3371
Slope = 0.9968, Intercept = 0.0000, Correlation, R = 0.96026131
Shapiro-Wilk Statistic = 0.911, Critical Value(0.05) = 0.905, Data are Normal

Lognormal Q-Q Plot for H



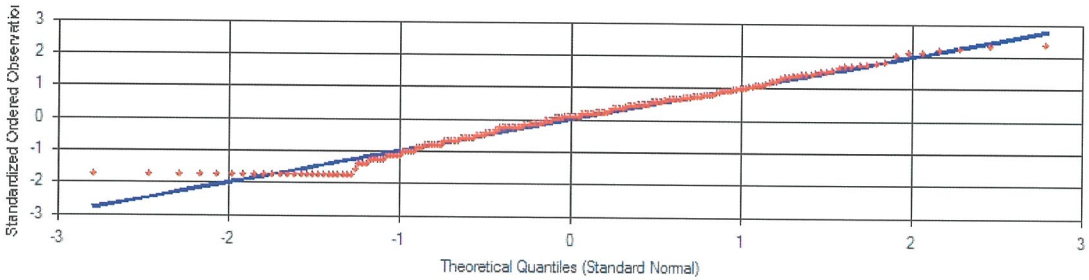
N = 176, Mean = 0.8687, Sd = 0.5732
Slope = 0.9896, Intercept = 0.0000, Correlation, R = 0.98277172
Lilliefors Statistic = 0.083, Critical Value(0.05) = 0.067, Data not Lognormal

Lognormal Q-Q Plot for Lake County

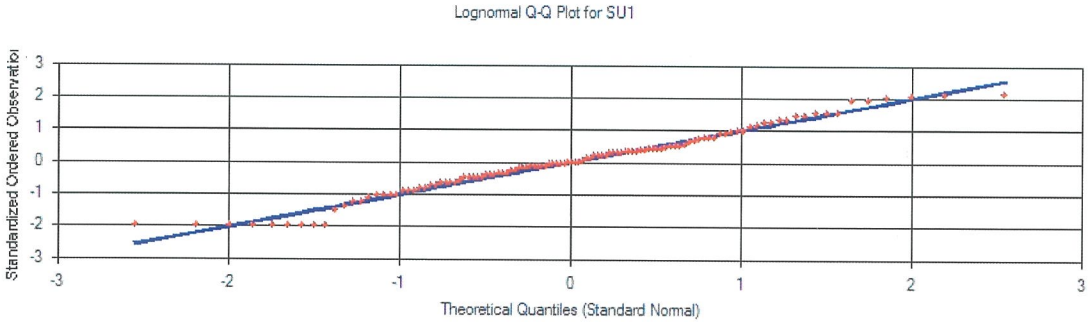


N = 412, Mean = 0.9348, Sd = 0.5674
Slope = 0.9908, Intercept = 0.0000, Correlation, R = 0.98745303
Lilliefors Statistic = 0.072, Critical Value(0.05) = 0.044, Data not Lognormal

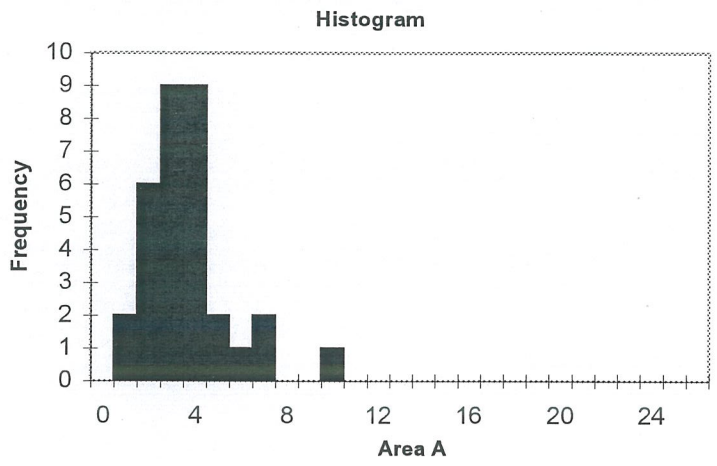
Lognormal Q-Q Plot for OU9



N = 236, Mean = 0.9841, Sd = 0.5592
Slope = 0.9951, Intercept = 0.0000, Correlation, R = 0.98970833
Lilliefors Statistic = 0.062, Critical Value(0.05) = 0.058, Data not Lognormal



N = 114, Mean = 1.1021, Sd = 0.5551
Slope = 1.0012, Intercept = 0.0000, Correlation, R = 0.99145178
Lilliefors Statistic = 0.055, Critical Value(0.05) = 0.083, Data are Lognormal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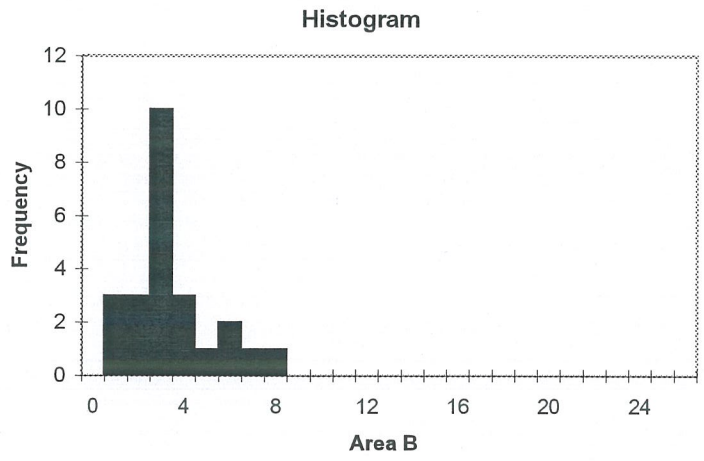
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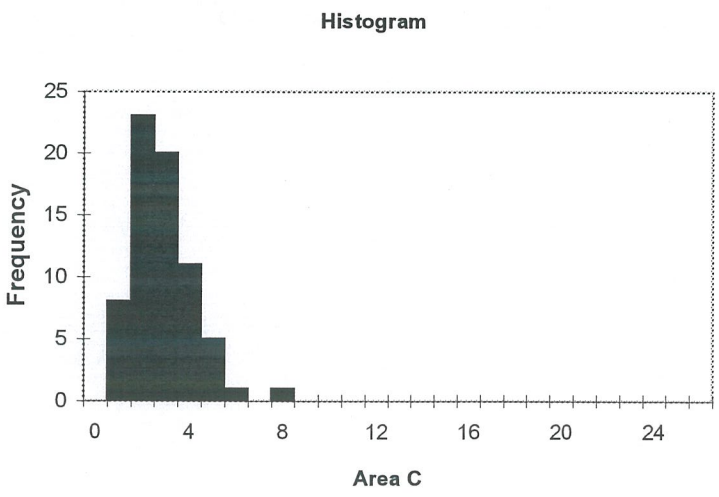
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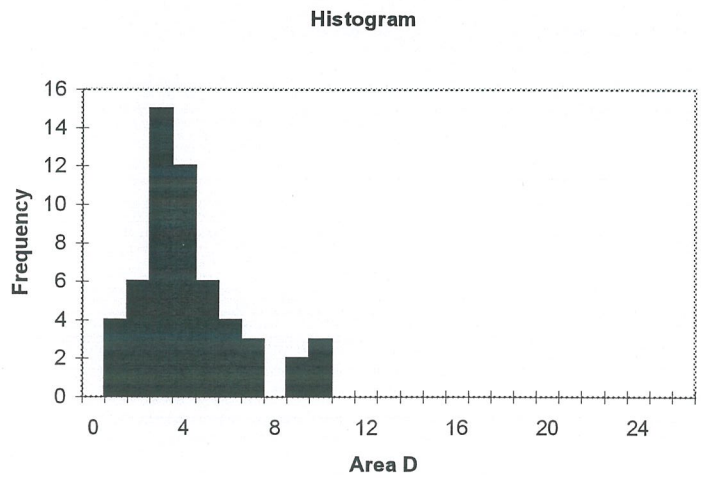
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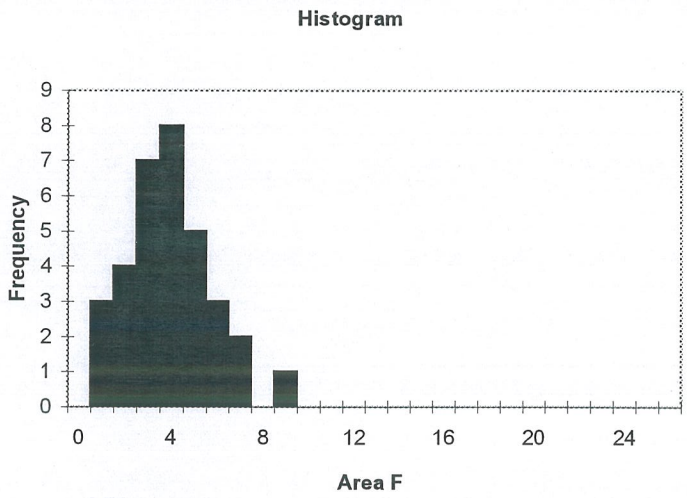
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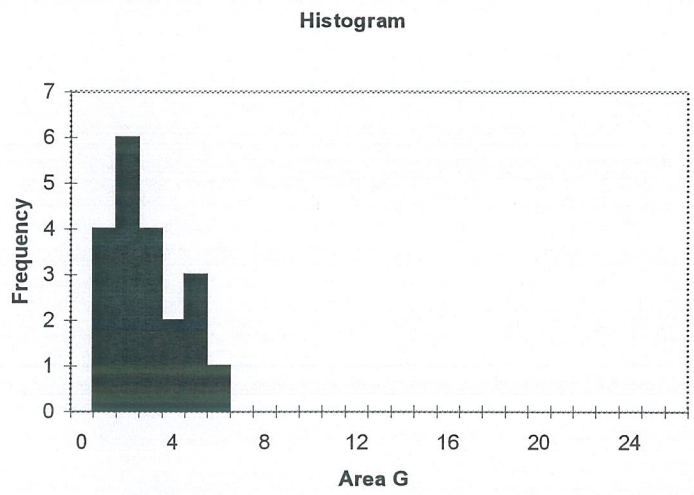
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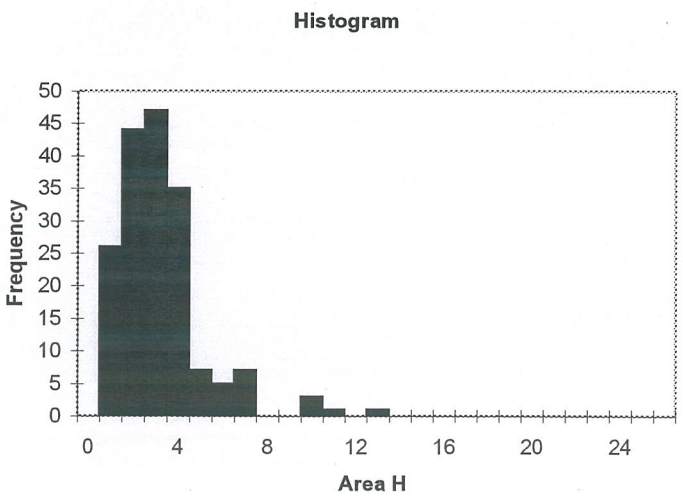
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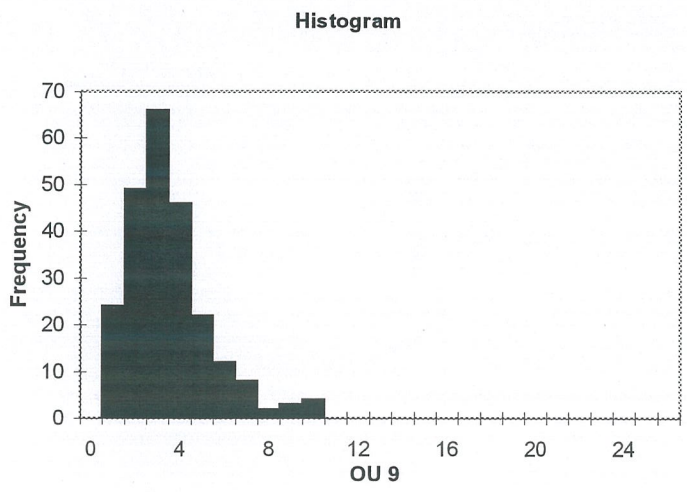
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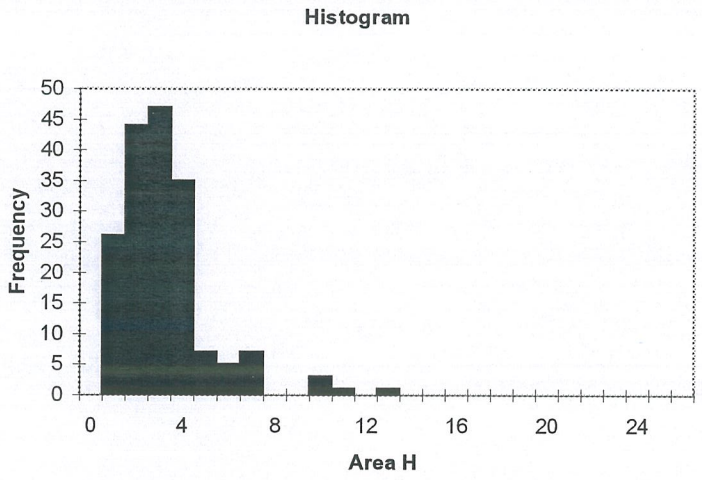
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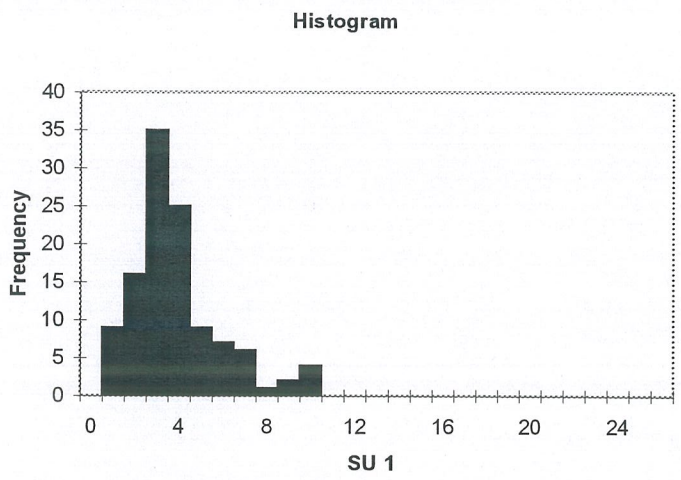
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