
 Descriptive Statistics

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Variable Name is AREA

N	= 213	Missing or Deleted	= 0
Mean	= 10.76291	St. Dev (n-1)	= 18.07476
Median	= 1.50	St. Dev (n)	= 18.03228
Minimum	= 0.25	S.E.M.	= 1.23846
Maximum	= 104.00	Variance	= 326.69706
Sum	= 2292.50	Coef. Var.	= 1.67936

 Percentiles:

0.0%	= 0.25	Minimum
0.5%	= 0.25	
2.5%	= 0.25	
10.0%	= 0.25	
25.0%	= 0.50	Quartile
50.0%	= 1.50	Median
75.0%	= 12.625	Quartile
90.0%	= 40.00	
97.5%	= 62.35002	
99.5%	= 103.055	
100.0%	= 104.00	Maximum

Tukey Five Number Summary:

Minimum	= 0.25
Fourth	= 0.50
Median	= 1.50
Fourth	= 12.00
Maximum	= 104.00

Test for normality results:
 D = .28 p <= 0.001

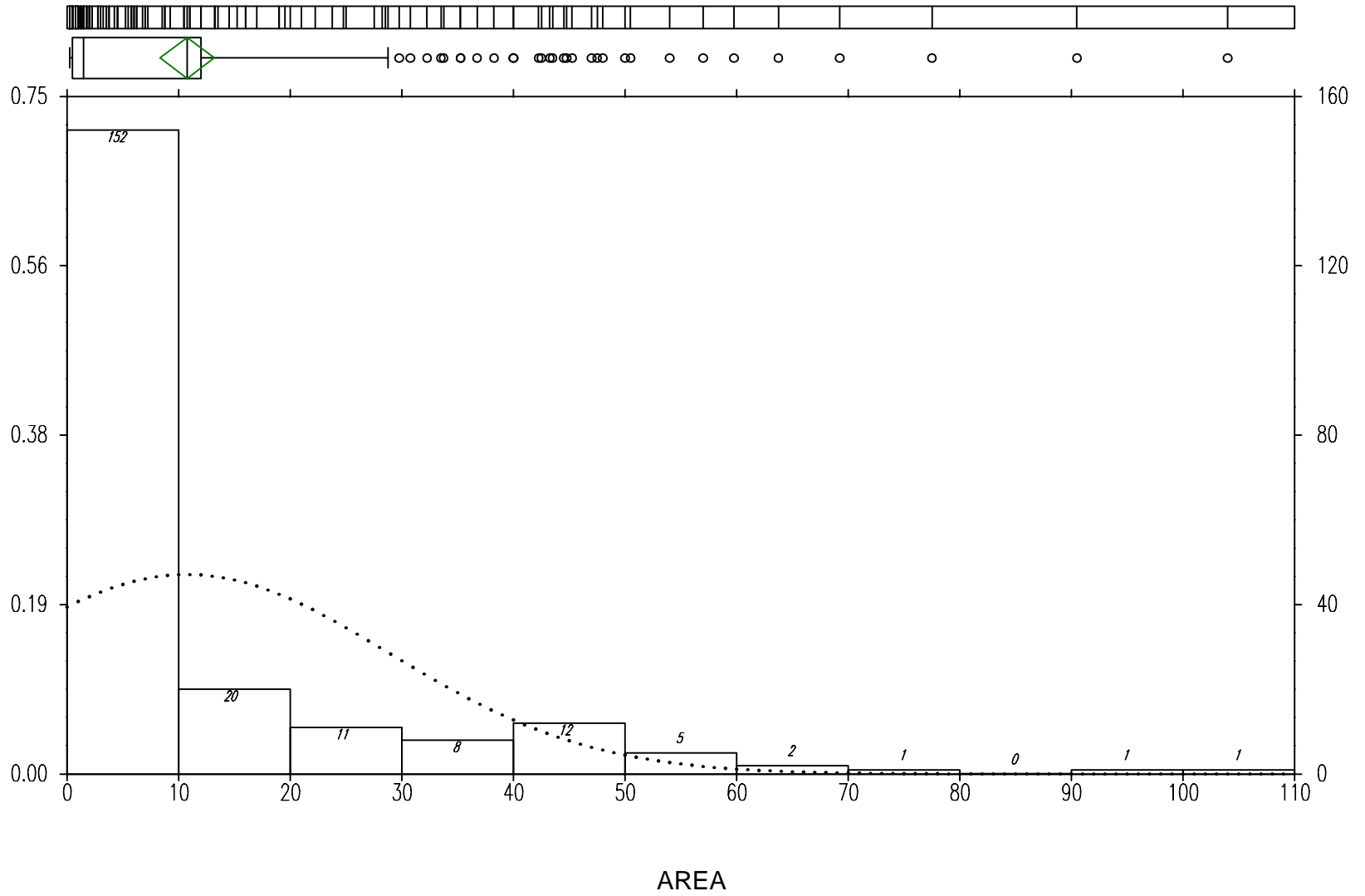
Five number summary was calculated using the technique from UNDERSTANDING ROBUST AND EXPLORATORY DATA ANALYSIS by Hoaglin, Mosteller And Tukey. See complete reference in WINKS manual.

Confidence Intervals about the mean:

80 % C.I.	based on a t critical value of 1.2816 is (9.1757, 12.35012)
90 % C.I.	based on a t critical value of 1.6449 is (8.72576, 12.80006)
95 % C.I.	based on a t critical value of 1.96 is (8.33552, 13.1903)
98 % C.I.	based on a t critical value of 2.3263 is (7.88188, 13.64395)
99 % C.I.	based on a t critical value of 2.5758 is (7.57288, 13.95294)

The normality test suggests that the data are not normally distributed. The test for normality is a modified Kolmogorov-Smirnov test based on papers by Lilliefors and Dallal & Wilkinson. References in latenews.txt.

NNU Closures - Area



 Descriptive Statistics

D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\NNU.DBF

Variable Name is HEIGHT

N	= 213	Missing or Deleted	= 0
Mean	= 394.77934	St. Dev (n-1)	= 494.71134
Median	= 166.30	St. Dev (n)	= 493.54868
Minimum	= 2.20	S.E.M.	= 33.89706
Maximum	= 2508.50	Variance	= 244,739
Sum	= 84088.00026	Coef. Var.	= 1.25313

 Percentiles:

0.0%	= 2.20	Minimum
0.5%	= 2.431	
2.5%	= 8.60	
10.0%	= 20.32	
25.0%	= 66.10001	Quartile
50.0%	= 166.30	Median
75.0%	= 536.50	Quartile
90.0%	= 1139.24	
97.5%	= 1714.435	
99.5%	= 2493.52	
100.0%	= 2508.50	Maximum

Tukey Five Number Summary:

Minimum	= 2.20
Fourth	= 67.40
Median	= 166.30
Fourth	= 526.60
Maximum	= 2508.50

Test for normality results:
 D = .217 p <= 0.001

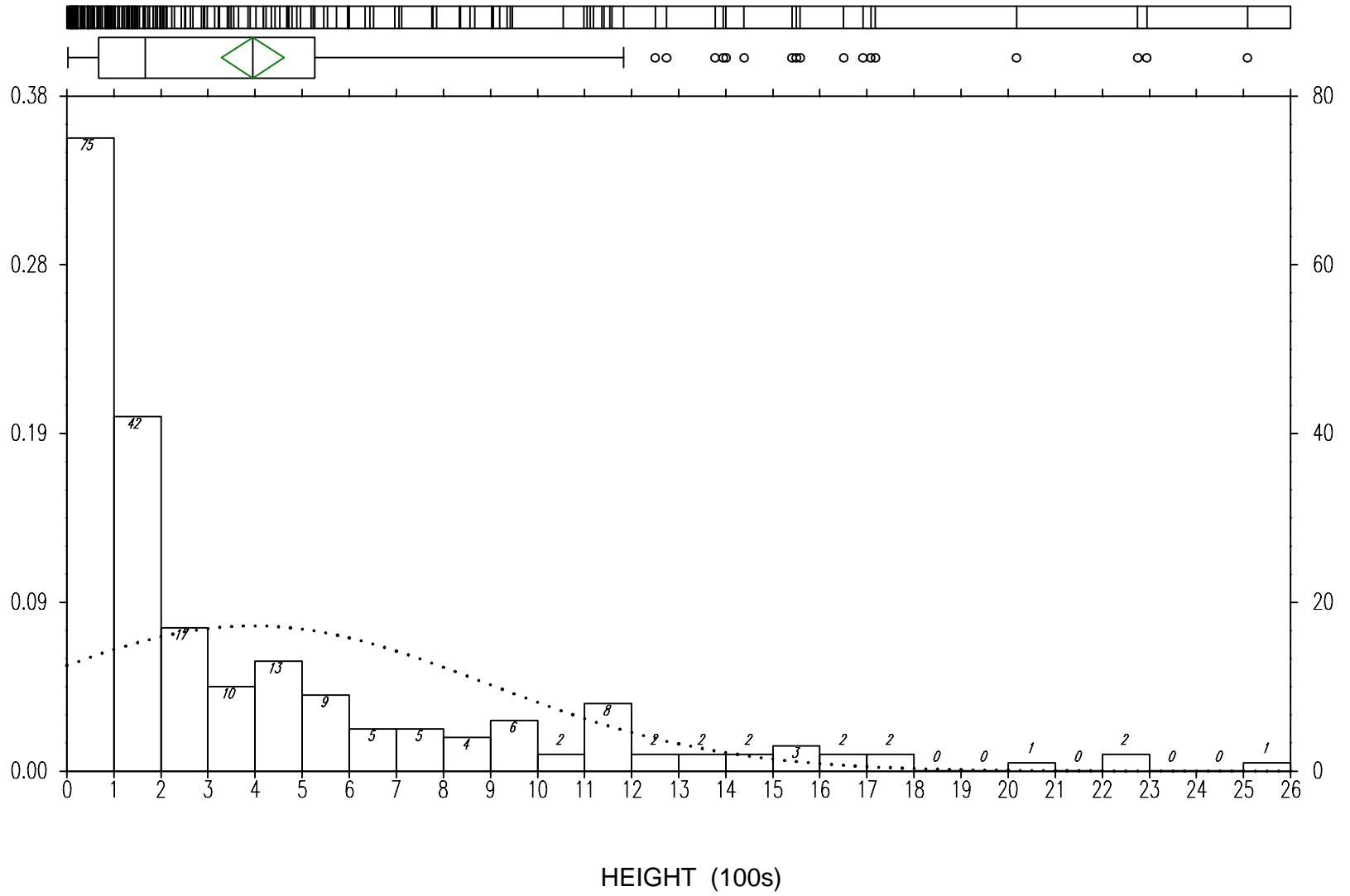
Five number summary was calculated using the technique from UNDERSTANDING ROBUST AND EXPLORATORY DATA ANALYSIS by Hoaglin, Mosteller And Tukey. See complete reference in WINKS manual.

 Confidence Intervals about the mean:

80 % C.I. based on a t critical value of 1.2816 is	(351.33687, 438.22182)
90 % C.I. based on a t critical value of 1.6449 is	(339.02207, 450.53662)
95 % C.I. based on a t critical value of 1.96 is	(328.3411, 461.21759)
98 % C.I. based on a t critical value of 2.3263 is	(315.92461, 473.63408)
99 % C.I. based on a t critical value of 2.5758 is	(307.46729, 482.0914)

The normality test suggests that the data are not normally distributed. The test for normality is a modified Kolmogorov-Smirnov test based on papers by Lilliefors and Dallal & Wilkinson. References in latenews.txt.

NUU Closures - Areas



 Linear Regression and Correlation

D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\NNU.DBF

Dependent variable is HEIGHT, 1 independent variables, 213 cases.

Variable	Coefficient	St. Error	t-value	p(2 tail)
Intercept	234.50701	33.200438	7.0633709	<.001
AREA	14.89117	1.5809669	9.4190269	<.001

R-Square = 0.296 Adjusted R-Square = 0.2927

Analysis of Variance to Test Regression Relation

Source	Sum of Sqs	df	Mean Sq	F	p-value
Regression	15358144.0015	1	15358144.0015	88.718067	<.001
Error	3.65E+07	211	173111.8		
Total	51884733.1624	212			

A low p-value suggests that the dependent variable HEIGHT may be linearly related to independent variable(s).

MEAN X =	10.763	S.D. X =	18.075	CORR XSS =	69259.77
MEAN Y =	394.779	S.D. Y =	494.711	CORR YSS =	51884710.0
REGRESSION MS=	15358144.002	RESIDUAL MS=	173111.797		

Pearson's r (Correlation Coefficient)= 0.5441

The linear regression equation is:

$$\text{HEIGHT} = 234.507 + 14.89117 * \text{AREA}$$

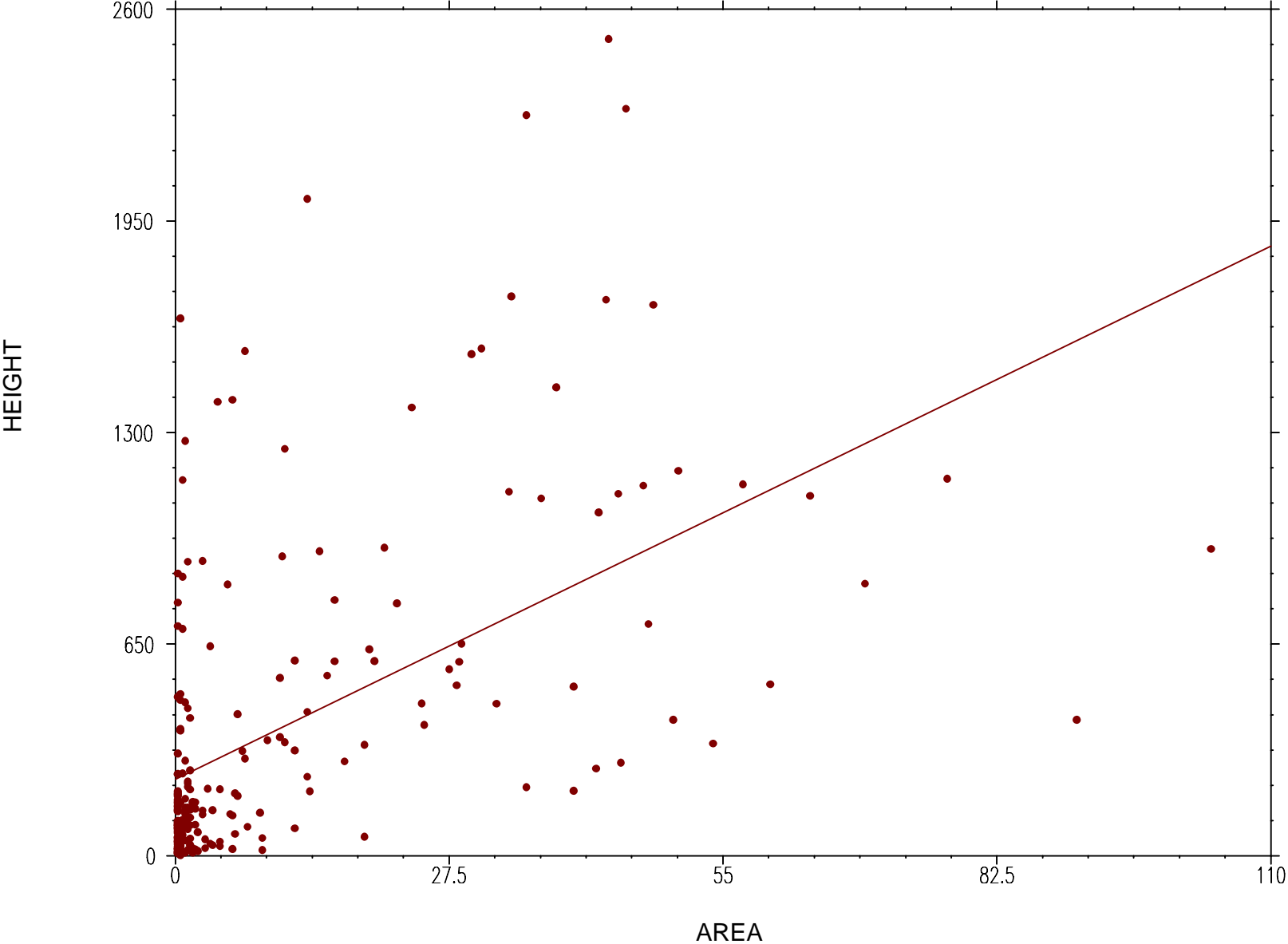
Test of hypothesis to determine significance of relationship:

H(null): Slope = 0 or H(null): r = 0 (two-tailed test)

t = 9.42 with 211 degrees of freedom p <= .001

Note: A low p-value implies that the slope does not = 0.

NNU Closures



Correlation Coefficients D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\NNU.DBF

Variables used : AREA and HEIGHT

Number of cases used: 213

Pearson's r (Correlations Coefficient) = 0.5441 R-Square = 0.2960

Test of hypothesis to determine significance of relationship:

H(null): Slope = 0 or H(null): r = 0

(Pearson's) t = 9.419026 with 211 d.f. p < 0.001

(A low p-value implies that the slope does not = 0.)

Spearman's Rank Correlation Coefficient = 0.5726

(Spearman's) t = 10.1448 with 211 d.f. p < 0.001

 Linear Regression and Correlation

D:\PROJECTS\NPRA\TOPSRE~1\WINKST~1\NNU.DBF

Dependent variable is LOGHEIGHT, 1 independent variables, 213 cases.

Variable	Coefficient	St. Error	t-value	p(2 tail)
Intercept	4.7422254	.0900373	52.669558	<.001
LOGAREA	.4542723	.0439456	10.337148	<.001

R-Square = 0.3362 Adjusted R-Square = 0.333

Analysis of Variance to Test Regression Relation

Source	Sum of Sqs	df	Mean Sq	F	p-value
Regression	152.75488	1	152.75488	106.85663	<.001
Error	301.63105	211	1.429531		
Total	454.38592	212			

A low p-value suggests that the dependent variable LOGHEIGHT may be linearly related to independent variable(s).

MEAN X =	.85	S.D. X =	1.869	CORR XSS =	740.224
MEAN Y =	5.128	S.D. Y =	1.464	CORR YSS =	454.385
REGRESSION MS=	152.755	RESIDUAL MS=	1.43		

Pearson's r (Correlation Coefficient)= 0.5798

The linear regression equation is:

$$\text{LOGHEIGHT} = 4.742225 + .4542723 * \text{LOGAREA}$$

Test of hypothesis to determine significance of relationship:

H(null): Slope = 0 or H(null): r = 0 (two-tailed test)

t = 10.34 with 211 degrees of freedom p <= .001

Note: A low p-value implies that the slope does not = 0.

NNU Closures

