

Descriptive Statistics

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Variable Name is AREA

N	= 58	Missing or Deleted	= 0
Mean	= 7.90948	St. Dev (n-1)	= 12.78128
Median	= 1.625	St. Dev (n)	= 12.67062
Minimum	= 0.25	S.E.M.	= 1.67826
Maximum	= 57.50	Variance	= 163.36118
Sum	= 458.75	Coef. Var.	= 1.61594

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%	= 1.625	Median
75.0%	= 9.625	Quartile
90.0%	= 25.825	
97.5%	= 52.86876	
99.5%	= 57.50	
100.0%	= 57.50	Maximum

Tukey Five Number Summary:

Minimum	= 0.25
Fourth	= 0.50
Median	= 1.625
Fourth	= 9.50
Maximum	= 57.50

Test for normality results:
D = .274 p <= 0.001

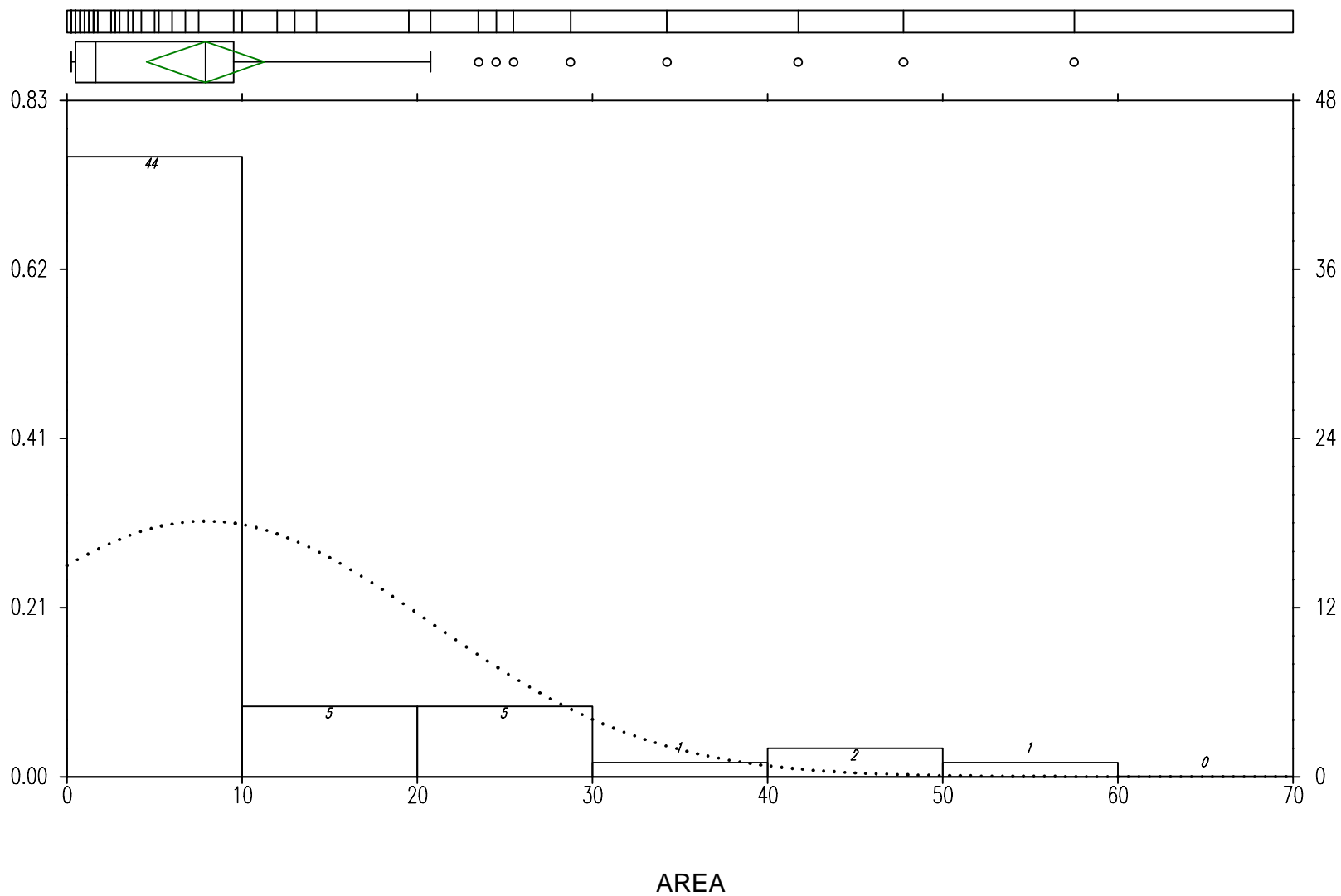
Five number summary was calculated using the technique from UNDERSTANDING ROBUST AND EXPLORATORY DATA ANALYSIS by Hoaglin, Mosteller And Tukey. See complete reference in WINKS manual.

Confidence Intervals about the mean:

80 % C.I. based on a t(57) critical value of 1.3 is	(5.72774, 10.09123)
90 % C.I. based on a t(57) critical value of 1.68 is	(5.09, 10.72897)
95 % C.I. based on a t(57) critical value of 2.01 is	(4.53617, 11.28279)
98 % C.I. based on a t(57) critical value of 2.4 is	(3.88165, 11.93732)
99 % C.I. based on a t(57) critical value of 2.67 is	(3.42852, 12.39045)

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.

Basement Closures – Area Distribution



 Descriptive Statistics

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

Variable Name is HEIGHT

N	= 58	Missing or Deleted	= 0
Mean	= 200.67586	St. Dev (n-1)	= 241.8749
Median	= 135.05	St. Dev (n)	= 239.7807
Minimum	= 14.20	S.E.M.	= 31.75973
Maximum	= 1492.10	Variance	= 58503.46533
Sum	= 11639.19996	Coef. Var.	= 1.2053

 Percentiles:

0.0%	= 14.20	Minimum
0.5%	= 14.20	
2.5%	= 19.0925	
10.0%	= 31.93	
25.0%	= 51.65	Quartile
50.0%	= 135.05	Median
75.0%	= 233.70	Quartile
90.0%	= 444.4598	
97.5%	= 1144.876	
99.5%	= 1492.10	
100.0%	= 1492.10	Maximum

Tukey Five Number Summary:

Minimum	= 14.20
Fourth	= 52.00
Median	= 135.05
Fourth	= 227.80
Maximum	= 1492.10

Test for normality results:

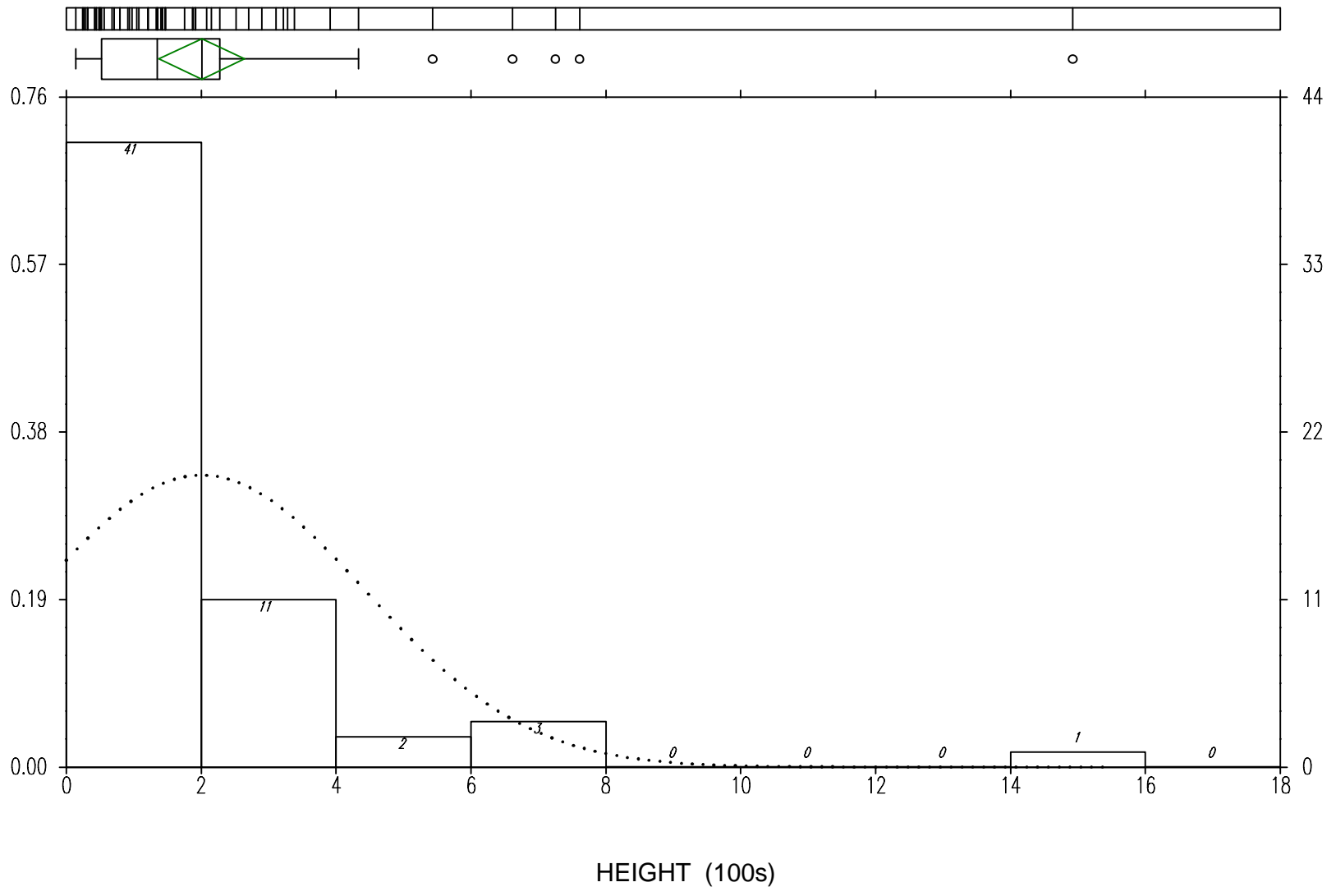
D = .222 p <= 0.001

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(57) critical value of 1.3 is (159.38821, 241.96351)
 90 % C.I. based on a t(57) critical value of 1.68 is (147.31952, 254.03221)
 95 % C.I. based on a t(57) critical value of 2.01 is (136.8388, 264.51292)
 98 % C.I. based on a t(57) critical value of 2.4 is (124.45251, 276.89921)
 99 % C.I. based on a t(57) critical value of 2.67 is (115.87738, 285.47434)

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.



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

Variables used : AREA and HEIGHT

Number of cases used: 58

Pearson's r (Correlations Coefficient) = 0.8515 R-Square = 0.7251

Test of hypothesis to determine significance of relationship:

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

(Pearson's) t = 12.15274 with 56 d.f. p < 0.001
(A low p-value implies that the slope does not = 0.)

Spearman's Rank Correlation Coefficient = 0.7329

(Spearman's) t = 8.060618 with 56 d.f. p < 0.001

 Linear Regression and Correlation

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Dependent variable is HEIGHT, 1 independent variables, 58 cases.

Variable	Coefficient	St. Error	t-value	p(2 tail)
Intercept	73.221476	19.805538	3.6970203	<.001
AREA	16.114124	1.3259662	12.152741	<.001

R-Square = 0.7251 Adjusted R-Square = 0.7202

Analysis of Variance to Test Regression Relation

Source	Sum of Sqs	df	Mean Sq	F	p-value
Regression	2417893.21436	1	2417893.21436	147.68912	<.001
Error	916804.31	56	16371.506		
Total	3334697.52403	57			

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

MEAN X =	7.909	S.D. X =	12.781	CORR XSS =	9311.587
MEAN Y =	200.676	S.D. Y =	241.875	CORR YSS =	3334697.0
REGRESSION MS=	2417893.214	RESIDUAL MS=	16371.506		

Pearson's r (Correlation Coefficient)= 0.8515

The linear regression equation is:

$$\text{HEIGHT} = 73.22147 + 16.11412 * \text{AREA}$$

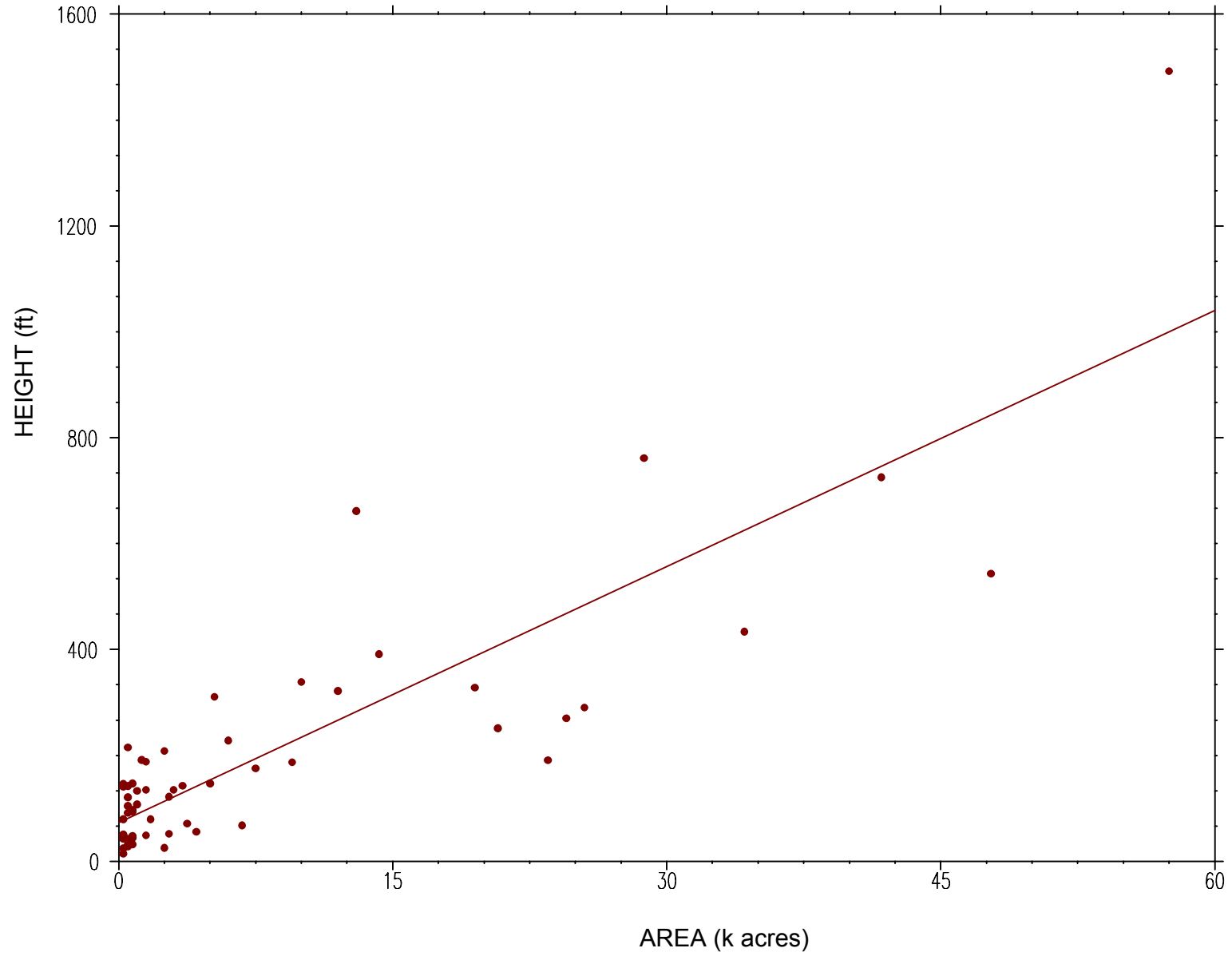
Test of hypothesis to determine significance of relationship:

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

t = 12.15 with 56 degrees of freedom p <= .001

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

Basement Closures



 Linear Regression and Correlation

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

Dependent variable is LOGHEIGHT, 1 independent variables, 58 cases.

Variable	Coefficient	St. Error	t-value	p(2 tail)
Intercept	1.9359696	.0412345	46.950204	<.001
LOGAREA	.4444118	.0517678	8.5847219	<.001

R-Square = 0.5682 Adjusted R-Square = 0.5605

Analysis of Variance to Test Regression Relation

Source	Sum of Sqs	df	Mean Sq	F	p-value
Regression	5.794565	1	5.794565	73.697449	<.001
Error	4.4030783	56	.0786264		
Total	10.197643	57			

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

MEAN X =	.359	S.D. X =	.717	CORR XSS =	29.339
MEAN Y =	2.095	S.D. Y =	.423	CORR YSS =	10.198
REGRESSION MS=	5.795	RESIDUAL MS=		.079	

Pearson's r (Correlation Coefficient)= 0.7538

The linear regression equation is:

$$\text{LOGHEIGHT} = 1.93597 + .4444118 * \text{LOGAREA}$$

Test of hypothesis to determine significance of relationship:

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

t = 8.58 with 56 degrees of freedom p <= .001

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

Basement Closure Analysis

