

James Hahn
STAT1221
Homework #3 MINITAB output

Chapter 6

1a)

Correlation: Age1, Dry Weight
Correlations

Pearson correlation 0.863
P-value 0.001

Correlation: Age1, Dry Weight Log
Correlations

Pearson correlation 0.999
P-value 0.000

1c)

Regression Analysis: Dry Weight versus Age1

The regression equation is
Dry Weight = - 1.885 + 0.2351 Age1

Model Summary

S	R-sq	R-sq(adj)
0.481848	74.42%	71.58%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	6.07851	6.07851	26.18	0.001
Error	9	2.08960	0.23218		
Total	10	8.16811			

Regression Analysis: Dry Weight Log versus Age1

The regression equation is

Dry Weight Log = - 2.689 + 0.1959 Age1

Model Summary

S	R-sq	R-sq(adj)
0.0280741	99.83%	99.81%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	4.22106	4.22106	5355.60	0.000
Error	9	0.00709	0.00079		
Total	10	4.22815			

9a)

Regression Analysis: TVExp versus Vote

The regression equation is

TVExp = 1.644 + 0.7733 Vote

Model Summary

S	R-sq	R-sq(adj)
2.70060	91.01%	90.51%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	1329.26	1329.26	182.26	0.000
Error	18	131.28	7.29		
Total	19	1460.54			