Robin Levy

Bio 320

January 25, 2012

Assignment 2

> summary(nat.rls$rls)

Min. 1st Qu. Median Mean 3rd Qu. Max.

23.57 27.10 31.27 31.70 35.16 44.57

> summary(nat.rls$a)

Min. 1st Qu. Median Mean 3rd Qu. Max.

0.0003775 0.0013030 0.0018190 0.0022890 0.0024280 0.0080280

>

> summary(nat.rls$b)

Min. 1st Qu. Median Mean 3rd Qu. Max.

0.08772 0.09809 0.12130 0.12170 0.13840 0.16300

> n = lm(nat.rls$rls ~ nat.rls$a )

> n

Call:

lm(formula = nat.rls$rls ~ nat.rls$a + nat.rls$b)

Residuals:

Min 1Q Median 3Q Max

-2.4717 -1.7425 -0.7680 0.8252 4.9819

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 59.80 4.45 13.438 3.60e-08 \*\*\*

nat.rls$a -2930.67 426.36 -6.874 2.68e-05 \*\*\*

nat.rls$b -175.79 31.86 -5.517 0.000181 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 2.629 on 11 degrees of freedom

Multiple R-squared: 0.8334, Adjusted R-squared: 0.8031

F-statistic: 27.51 on 2 and 11 DF, p-value: 5.241e-05