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STAT: 2010

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**Homework 13 SAS Code**

**Regression Problem**: data preypred ;  
 input perch killed ;  
 datalines;  
 10 0.0  
 10 0.1  
 ...  
 60 0.7  
 60 0.817  
 ;  
 run ;

**proc** **plot** data = preypred ; \*Produce scatter plot;

plot killed \* perch = "." ;

**run** ;

Plot of killed\*perch. Symbol used is '.'.

killed ‚

‚

0.825 ˆ .

0.800 ˆ

0.775 ˆ

0.750 ˆ

0.725 ˆ .

0.700 ˆ .

0.675 ˆ

0.650 ˆ

0.625 ˆ

0.600 ˆ . .

0.575 ˆ

0.550 ˆ .

0.525 ˆ .

0.500 ˆ

0.475 ˆ

0.450 ˆ

0.425 ˆ

0.400 ˆ

0.375 ˆ

0.350 ˆ

0.325 ˆ

0.300 ˆ . . .

0.275 ˆ

0.250 ˆ

0.225 ˆ

0.200 ˆ .

0.175 ˆ

0.150 ˆ

0.125 ˆ

0.100 ˆ .

0.075 ˆ .

0.050 ˆ

0.025 ˆ

0.000 ˆ .

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10 20 30 40 50 60

perch

**proc** **reg** data = preypred ; \*used for regression line analysis

model killed = perch / clb cli clm alpha = **0.10** ;

**run** ;

Parameter Estimates

Parameter Standard

Variable DF Estimate Error t Value Pr > |t| 90% Confidence Limits

Intercept 1 0.12049 0.09269 1.30 0.2146 -0.04277 0.28375

perch 1 0.00857 0.00246 3.49 0.0036 0.00424 0.01289

Output Statistics

Std

Error

Dependent Predicted Mean

Obs Variable Value Predict 90% CL Mean 90% CL Predict Residual

1 0.000 0.2062 0.0726 0.0783 0.3341 -0.1498 0.5622 -0.2062

2 0.100 0.2062 0.0726 0.0783 0.3341 -0.1498 0.5622 -0.1062

3 0.300 0.2062 0.0726 0.0783 0.3341 -0.1498 0.5622 0.0938

4 0.300 0.2062 0.0726 0.0783 0.3341 -0.1498 0.5622 0.0938

5 0.200 0.2919 0.0563 0.1928 0.3910 -0.0548 0.6385 -0.0919

6 0.300 0.2919 0.0563 0.1928 0.3910 -0.0548 0.6385 0.008119

7 0.300 0.2919 0.0563 0.1928 0.3910 -0.0548 0.6385 0.008119

8 0.600 0.2919 0.0563 0.1928 0.3910 -0.0548 0.6385 0.3081

9 0.075 0.4633 0.0506 0.3741 0.5524 0.1193 0.8072 -0.3883

10 0.300 0.4633 0.0506 0.3741 0.5524 0.1193 0.8072 -0.1633

11 0.600 0.4633 0.0506 0.3741 0.5524 0.1193 0.8072 0.1367

12 0.725 0.4633 0.0506 0.3741 0.5524 0.1193 0.8072 0.2617

13 0.517 0.6347 0.0824 0.4896 0.7797 0.2722 0.9972 -0.1177

14 0.550 0.6347 0.0824 0.4896 0.7797 0.2722 0.9972 -0.0847

15 0.700 0.6347 0.0824 0.4896 0.7797 0.2722 0.9972 0.0653

16 0.817 0.6347 0.0824 0.4896 0.7797 0.2722 0.9972 0.1823