# Final Exam Key – LakeSurvey

| | n | nvalid | mean | sd | min | Q1 | median | Q3 | max |
|---|---|---|---|---|---|---|---|---|---|
| | 1553.0 | 1511.0 | 36.9 | 32.8 | 0.0 | 8.0 | 28.0 | 50.0 | 200.0 |
| percZero | | | | | | | | | |
| 0.6 | | | | | | | | | |



| ltHS | HS | someColl | College | GradProf |
|---|---|---|---|---|
| 1.0 | 13.2 | 20.3 | 32.6 | 32.9 |
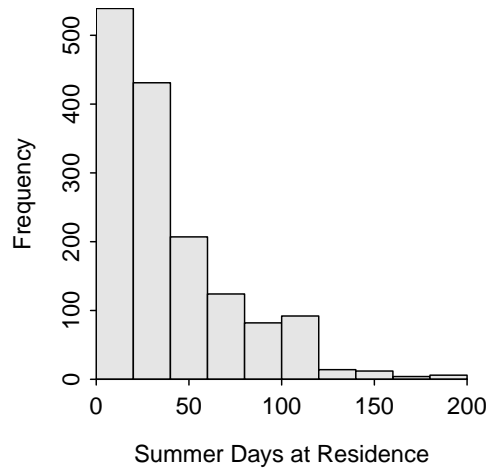
The correlation is 0.205
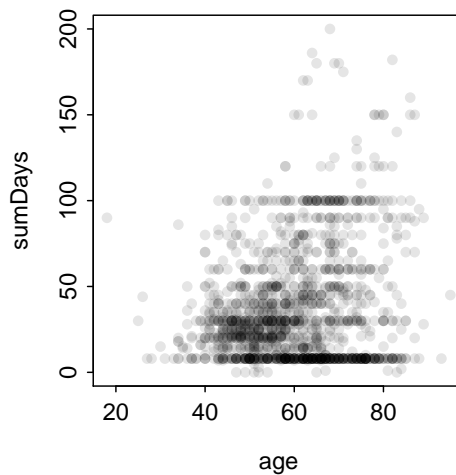


```
(Intercept)        age
 2.7375078    0.5720521
The predicted value at a median of 60 is 37.061
The residual is 35 - 48.502 = -13.502
The r-squared value is 0.042
```

```
      0_days 1_6_days 7_14_days 15_30_days 30_60_days 60+_days
No        81      180       247        334        180       68
Yes       38       78        59         74         53       77


        0_days  1_6_days 7_14_days 15_30_days 30_60_days 60+_days
No   88.29816 191.43635 227.05242   302.7366  172.88632 107.5902
Yes 30.70184  66.56365  78.94758   105.2634   60.11368  37.4098
```

```
Pearson's Chi-squared test with table(df$prmryRes, df$fishing)
X-squared = 81.8929, df = 5, p-value = 3.37e-16
```

```
Levene's Test for Homogeneity of Variance (center = median)
        Df F value Pr(>F)
group    1  0.3034 0.5818
      1335
```

```
 Two Sample t-test with value by prmryRes
t = -2.1221, df = 1335, p-value = 0.03401
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -102630.98   -4029.76
sample estimates:
 mean in group No mean in group Yes
         377935.9          431266.3
```