**Habitat entrance:**

1. **total amount of fish**

glm(formula = data$isum[entrance] ~ data$closure[entrance], family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-25.750 -10.333 -3.792 7.729 52.250

Coefficients:

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

(Intercept) 34.833 5.581 6.241 2.79e-06 \*\*\*

data$closure[entrance]1 6.917 7.893 0.876 0.39

---

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

(Dispersion parameter for gaussian family taken to be 373.8144)

Null deviance: 8511.0 on 23 degrees of freedom

Residual deviance: 8223.9 on 22 degrees of freedom

AIC: 214.19

Number of Fisher Scoring iterations: 2

1. **total fish species**

glm(formula = data$nspss[entrance] ~ data$closure[entrance],

family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-8.4167 -2.4167 0.0833 1.5833 8.5833

Coefficients:

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

(Intercept) 12.417 1.114 11.142 1.63e-10 \*\*\*

data$closure[entrance]1 3.000 1.576 1.904 0.0701 .

---

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

(Dispersion parameter for gaussian family taken to be 14.90152)

Null deviance: 381.83 on 23 degrees of freedom

Residual deviance: 327.83 on 22 degrees of freedom

AIC: 136.86

Number of Fisher Scoring iterations: 2

1. **e^Shannon**

glm(formula = data$exp\_shannon[entrance] ~ data$closure[entrance],

family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-5.0130 -2.9309 -0.2956 2.6270 7.2757

Coefficients:

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

(Intercept) 7.715 1.011 7.629 1.29e-07 \*\*\*

data$closure[entrance]1 2.500 1.430 1.748 0.0944 .

---

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

(Dispersion parameter for gaussian family taken to be 12.27062)

Null deviance: 307.45 on 23 degrees of freedom

Residual deviance: 269.95 on 22 degrees of freedom

AIC: 132.19

Number of Fisher Scoring iterations: 2

**Habitat knoll:**

1. **total amount of fish**

glm(formula = data$isum[knolls] ~ data$closure[knolls], family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-53.05 -32.36 -15.46 13.71 234.14

Coefficients:

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

(Intercept) 82.045 11.992 6.842 2.45e-08 \*\*\*

data$closure[knolls]1 -4.182 16.959 -0.247 0.806

---

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

(Dispersion parameter for gaussian family taken to be 3163.561)

Null deviance: 133062 on 43 degrees of freedom

Residual deviance: 132870 on 42 degrees of freedom

AIC: 483.44

Number of Fisher Scoring iterations: 2

1. **total fish species**

glm(formula = data$nspss[knolls] ~ data$closure[knolls], family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-10.3182 -3.3182 -0.0455 3.4545 12.6818

Coefficients:

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

(Intercept) 21.5455 1.0590 20.345 <2e-16 \*\*\*

data$closure[knolls]1 -0.2273 1.4976 -0.152 0.88

---

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

(Dispersion parameter for gaussian family taken to be 24.67208)

Null deviance: 1036.8 on 43 degrees of freedom

Residual deviance: 1036.2 on 42 degrees of freedom

AIC: 269.87

Number of Fisher Scoring iterations: 2

1. **e^Shannon**

glm(formula = data$exp\_shannon[knolls] ~ data$closure[knolls],

family = stats::gaussian)

Deviance Residuals:

Min 1Q Median 3Q Max

-9.8353 -4.2990 -0.2013 4.1963 9.3707

Coefficients:

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

(Intercept) 8.529 1.075 7.934 6.91e-10 \*\*\*

data$closure[knolls]1 3.571 1.520 2.349 0.0236 \*

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

(Dispersion parameter for gaussian family taken to be 25.41933)

Null deviance: 1207.9 on 43 degrees of freedom

Residual deviance: 1067.6 on 42 degrees of freedom

AIC: 271.18

Number of Fisher Scoring iterations: 2