Stats summary for Red squirrel data.

summary(prog.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Location 2 824919 412459 279.5 <2e-16 \*\*\*

Residuals 865 1276596 1476

---

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

180 observations deleted due to missingness

mean = mean(prog.10, na.rm = TRUE),

+ sd = sd(prog.10, na.rm = TRUE)

+ )

# A tibble: 3 x 4

Location count mean sd

\* <chr> <int> <dbl> <dbl>

1 MtGraham 47 83.0 86.7

2 WhiteMountains 66 157. 145.

3 Zoo 935 27.0 10.1

+ mean = mean(prog.10, na.rm = TRUE),

+ sd = sd(prog.10, na.rm = TRUE)

+ )

summary(progs.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Season 3 39607 13202 5.532 0.000917 \*\*\*

Residuals 864 2061908 2386

---

# A tibble: 4 x 4

Season count mean sd

\* <chr> <int> <dbl> <dbl>

1 Fall 135 28.4 27.9

2 Spring 354 31.7 22.6

3 Summer 275 36.6 58.8

4 Winter 284 47.1 71.9

est.aov <- aov(est.10 ~ Location, data = metadata)

> # Summary of the analysis

> summary(est.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Location 2 3344578 1672289 74.31 <2e-16 \*\*\*

Residuals 886 19937346 22503

---

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

159 observations deleted due to missingness

sd = sd(est.10, na.rm = TRUE)

+ )

# A tibble: 3 x 4

Location count mean sd

\* <chr> <int> <dbl> <dbl>

1 MtGraham 47 155. 183.

2 WhiteMountains 66 376. 596.

3 Zoo 935 103. 56.4

sd = sd(est.10, na.rm = TRUE)

+ )

est.aov <- aov(est.10 ~ Season, data = metadata)

> # Summary of the analysis

> summary(est.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Season 3 502496 167499 6.507 0.000235 \*\*\*

Residuals 885 22779428 25739

---

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

159 observations deleted due to missingness

# A tibble: 4 x 4

Season count mean sd

\* <chr> <int> <dbl> <dbl>

1 Fall 135 112. 63.6

2 Spring 354 98.2 54.9

3 Summer 275 118. 135.

4 Winter 284 160. 288.

> summary(cort.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Location 2 661095 330547 62.91 <2e-16 \*\*\*

Residuals 1038 5454388 5255

---

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

7 observations deleted due to missingness

> summary(corts.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Season 3 65501 21834 3.742 0.0108 \*

Residuals 1037 6049981 5834

---

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

7 observations deleted due to missingness

sd = sd(cort.10, na.rm = TRUE)

+ )

# A tibble: 3 x 4

Location count mean sd

\* <chr> <int> <dbl> <dbl>

1 MtGraham 47 68.6 43.5

2 WhiteMountains 66 155. 181.

3 Zoo 935 52.0 59.0

sd = sd(cort.10, na.rm = TRUE)

+ )

# A tibble: 4 x 4

Season count mean sd

\* <chr> <int> <dbl> <dbl>

1 Fall 135 44.6 51.8

2 Spring 354 57.6 47.8

3 Summer 275 70.6 90.2

4 Winter 284 57.1 97.3

>

Test

Df Sum Sq Mean Sq F value Pr(>F)

Season 3 65501 21834 3.742 0.0108 \*

Residuals 1037 6049981 5834

---

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

7 observations deleted due to missingness

--------

sd = sd(Test.10, na.rm = TRUE)

+ )

# A tibble: 3 x 4

Location count mean sd

\* <chr> <int> <dbl> <dbl>

1 MtGraham 47 127. 65.9

2 WhiteMountains 66 112. 104.

3 Zoo 935 93.1 30.1

summary(test.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Location 2 15510 7755 2.095 0.13

Residuals 81 299852 3702

964 observations deleted due to missingness

sd = sd(Test.10, na.rm = TRUE)

+ )

> summary(tests.aov)

Df Sum Sq Mean Sq F value Pr(>F)

Season 1 18 18 0.005 0.946

Residuals 82 315344 3846

964 observations deleted due to missingness

>

# A tibble: 4 x 4

Season count mean sd

\* <chr> <int> <dbl> <dbl>

1 Fall 135 NaN NA

2 Spring 354 103. 38.4

3 Summer 275 104. 69.1

4 Winter 284 NaN NA

>