Supplemental ANOVA analysis

Results of split-plot ANOVA analysis on root biomass from our study. Note that cutting frequency (Freq) and cultivar (Cults) were assigned at the plot level, and thus the F-ratio denominator should be based on the estimate of plot-level variance, rather than residual variance.

Split\_plot <- aov(rootmass ~ Freq\*Resid\*Cults + Error(Plots),

data = dat\_lmer)

summary(Split\_plot)

Error: Plots

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

Freq 1 1970 1970 0.483 0.493540

Cults 3 110334 36778 9.024 0.000351 \*\*\*

Freq:Cults 3 38017 12672 3.109 0.045248 \*

Residuals 24 97814 4076

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

Error: Within

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

Resid 1 93015 93015 17.703 0.000312 \*\*\*

Freq:Resid 1 5116 5116 0.974 0.333613

Resid:Cults 3 10763 3588 0.683 0.571228

Freq:Resid:Cults 3 30931 10310 1.962 0.146580

Residuals 24 126099 5254

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