> red.LUSUKI.lm<-lm(LUSUKI~ Site + Av..LitterDepth + Av..GrassCover +

+ Av..MossCover + Av..ForbCover + Scarified)

> step(red.LUSUKI.lm, direction = c("both", "backward", "forward"))

##AIC = 606.6 ##

> summary(AIC.red.output1)

Call:

lm(formula = LUSUKI ~ Av..LitterDepth + Av..ForbCover + Scarified)

Residuals:

Min 1Q Median 3Q Max

-28.767 -8.696 -2.946 7.685 34.894

Coefficients:

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

(Intercept) 14.76700 5.46065 2.704 0.00789 \*\*

Av..LitterDepth 3.16427 1.09297 2.895 0.00454 \*\*

Av..ForbCover 0.09741 0.06672 1.460 0.14704

Scarifiedy -13.13041 2.38142 -5.514 2.22e-07 \*\*\*

---

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

Residual standard error: 12.85 on 114 degrees of freedom

Multiple R-squared: 0.2672, Adjusted R-squared: 0.248

F-statistic: 13.86 on 3 and 114 DF, p-value: 9.105e-08

###################################

> red.interact.LUSUKI.lm<-lm(LUSUKI~ Site + Av..LitterDepth + Av..GrassCover +

+ Av..MossCover + Av..ForbCover + Scarified+ Av..LitterDepth:Av..GrassCover

+ + Av..LitterDepth:Av..ForbCover + Av..LitterDepth:Scarified)

> step(red.interact.LUSUKI.lm, direction = c("both", "backward", "forward"))

## AIC = 603.9 ##

> AIC.red.output2<- lm(formula = LUSUKI ~ Av..LitterDepth + Av..GrassCover +

Scarified + Av..LitterDepth:Av..GrassCover)

> summary(AIC.red.output2)

Call:

lm(formula = LUSUKI ~ Av..LitterDepth + Av..GrassCover + Scarified +

Av..LitterDepth:Av..GrassCover)

Residuals:

Min 1Q Median 3Q Max

-29.632 -8.007 -2.383 6.372 36.796

Coefficients:

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

(Intercept) 16.4109 3.4997 4.689 7.72e-06 \*\*\*

Av..LitterDepth 7.1362 2.0234 3.527 0.000609 \*\*\*

Av..GrassCover 0.1378 0.1078 1.279 0.203459

Scarifiedy -13.8720 2.3471 -5.910 3.69e-08 \*\*\*

Av..LitterDepth:Av..GrassCover -0.1022 0.0430 -2.377 0.019117 \*

---

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

Residual standard error: 12.66 on 113 degrees of freedom

Multiple R-squared: 0.2959, Adjusted R-squared: 0.2709

F-statistic: 11.87 on 4 and 113 DF, p-value: 4.374e-08

###################

> add.site<- lm(formula = LUSUKI ~ Site+ Av..LitterDepth + Av..GrassCover +

+ Scarified + Av..LitterDepth:Av..GrassCover)

> summary(add.site)

Call:

lm(formula = LUSUKI ~ Site + Av..LitterDepth + Av..GrassCover +

Scarified + Av..LitterDepth:Av..GrassCover)

Residuals:

Min 1Q Median 3Q Max

-26.860 -7.918 -2.736 6.084 36.276

Coefficients:

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

(Intercept) 16.1089 3.8581 4.175 5.94e-05 \*\*\*

SiteFt. Hoskins -4.3576 2.9310 -1.487 0.139912

SitePigeon Butte 0.5050 2.9896 0.169 0.866163

Av..LitterDepth 8.1217 2.0937 3.879 0.000178 \*\*\*

Av..GrassCover 0.1743 0.1096 1.591 0.114526

Scarifiedy -13.9542 2.3343 -5.978 2.80e-08 \*\*\*

Av..LitterDepth:Av..GrassCover -0.1200 0.0440 -2.728 0.007412 \*\*

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

Residual standard error: 12.58 on 111 degrees of freedom

Multiple R-squared: 0.3161, Adjusted R-squared: 0.2792

F-statistic: 8.552 on 6 and 111 DF, p-value: 1.215e-07