# Adjusting Individual Parameters

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# 1 Summary

This paper is an upgrade to the 092315 run; specifically, it did 10 years of populating the seed bank before forking into the true runs. That way, I can load with seedlings/saplings already present. Hypothetically.

This one actually did not perform as well as the last one. Not according to the slopes, anyway.

View the Rnw document to view the code; otherwise, I am only printing outputs to save some space and make this document more readable.

### 2 Basal Area

### Call:

lm(formula = SimAbsBA ~ ExpAbsBA, data = PlotMeans)

#### Residuals:

Min 1Q Median 3Q Max -79.279 -0.796 1.355 2.746 31.532

### Coefficients:

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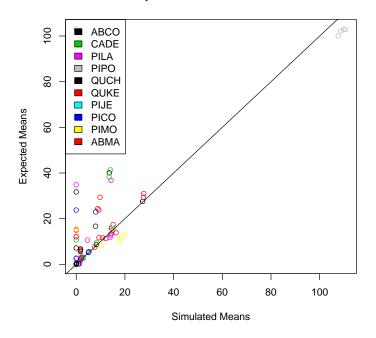
Signif. codes: 0 âĂŸ\*\*\*âĂŹ 0.001 âĂŸ\*\*âĂŹ 0.01 âĂŸ\*âĂŹ 0.05 âĂŸ.âĂŹ 0.1 âĂŸ âĂŹ 1

Residual standard error: 12 on 100 degrees of freedom

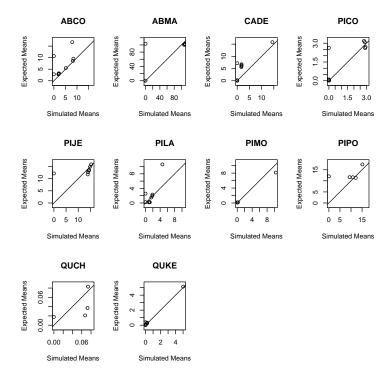
Multiple R-squared: 0.6897, Adjusted R-squared: 0.6866

F-statistic: 222.2 on 1 and 100 DF, p-value: < 2.2e-16

### **Group Adult Asbolute Basal Area**



Now, how are the individual species doing?



### > sppSlopes

	species	ba90
1	ABCO	2.0899943
2	ABMA	0.4617447
3	CADE	0.8400491
4	PICO	0.8397819
5	PIJE	0.1266374
6	PILA	2.5266342
7	PIMO	0.3786069
8	PIPO	0.2133728
9	QUCH	0.4564843
10	QUKE	0.8998571

# 3 Adult Density

### Call:

lm(formula = SimAbsDen ~ ExpAbsDen, data = PlotMeans)

#### Residuals:

Min 1Q Median 3Q Max -906.71 -80.89 -52.13 -27.47 1370.10

### Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 48.44193 33.82868 1.432 0.155
ExpAbsDen 0.37377 0.03899 9.586 8.02e-16 \*\*\*

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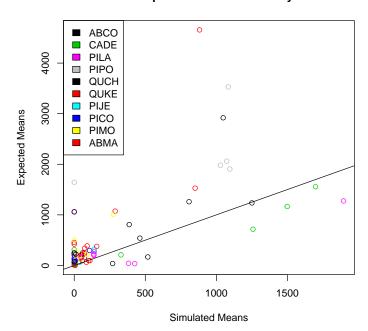
Signif. codes: 0 âĂŸ\*\*\*âĂŹ 0.001 âĂŸ\*\*âĂŹ 0.01 âĂŸ\*âĂŹ 0.05 âĂŸ.âĂŹ 0.1 âĂŸ âĂŹ 1

Residual standard error: 294.8 on 100 degrees of freedom

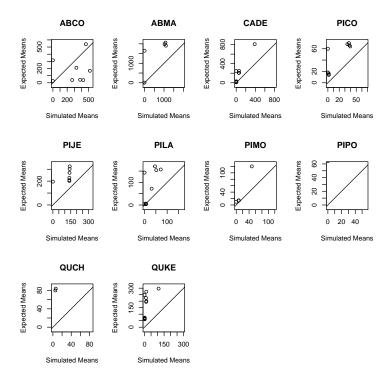
Multiple R-squared: 0.4789, Adjusted R-squared: 0.4736

F-statistic: 91.88 on 1 and 100 DF, p-value: 8.023e-16

### **Group Adult Asbolute Density**



Now, how are the individual species doing?



### > sppSlopes

```
species
                ba90
                           den90
      ABCO 2.0899943
                      0.7611341
1
2
      ABMA 0.4617447
                       1.4537117
3
      CADE 0.8400491
                       2.7527035
4
      PICO 0.8397819
                       1.1758536
5
      PIJE 0.1266374
                       0.4481674
6
      PILA 2.5266342
                       2.6673771
7
      PIMO 0.3786069
                       1.0196469
8
      PIPO 0.2133728
                       0.2341411
9
      QUCH 0.4564843 -4.7737627
      QUKE 0.8998571
                      2.8567033
10
```

> write.csv(sppSlopes, file=paste(parName, ".csv", sep=""))