"Wing lab cs length 13.csv"

Scaled CS and wing length of lab reared

wing.mod3=aov(**Wing.length..mm.**~Locality+Sex+Temp.Num, data=quickie)

> summary(wing.mod3)

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

Locality 6 2.746 0.458 27.18 < 2e-16 \*\*\*

Sex 1 0.736 0.736 43.73 6.61e-11 \*\*\*

Temp.Num 1 10.347 10.347 614.37 < 2e-16 \*\*\*

Residuals 861 14.500 0.017

---

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

wing.mod4=aov(**CS.scaled.13**~Locality+Sex+Temp.Num, data=quickie)

> summary(wing.mod4)

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

Locality 6 3.071 0.512 27.270 <2e-16 \*\*\*

Sex 1 0.005 0.005 0.261 0.61

Temp.Num 1 11.398 11.398 607.284 <2e-16 \*\*\*

Residuals 861 16.160 0.019

---

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

wing.mod7=aov(**CS.scaled.18**~Locality+Sex+Temp.Num, data=quickie)

> summary(wing.mod7)

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

Locality 6 3.696 0.616 39.95 <2e-16 \*\*\*

Sex 1 2.347 2.347 152.22 <2e-16 \*\*\*

Temp.Num 1 8.600 8.600 557.75 <2e-16 \*\*\*

Residuals 861 13.276 0.015

---

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

**Repeatability** **testing**

14.5% of all field and lab wings

Field- 7 groups\*5 repeats= 35 repeated

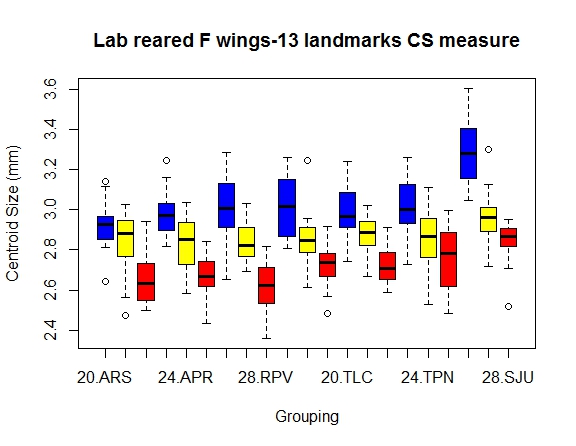
Lab- 42 “groups” (locality, sex, temp) \*3 repeats= 126 repeated

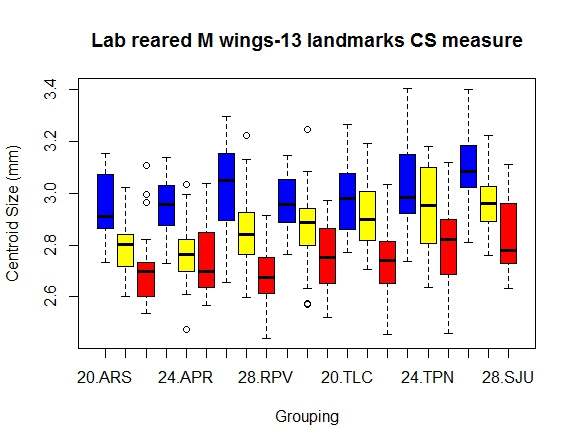
|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Repeatability** | **Lab** | **Repeatability** |
| 13 | 0.9997 | 13 | 0.965423531 |
| 18 | 0.836437272 | 18 | 0.972750948 |

Key for graphs:

Red- 28C, Yellow- 24C, Blue- 20C

Localities on x-axis: increasing latitude, left-> right



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