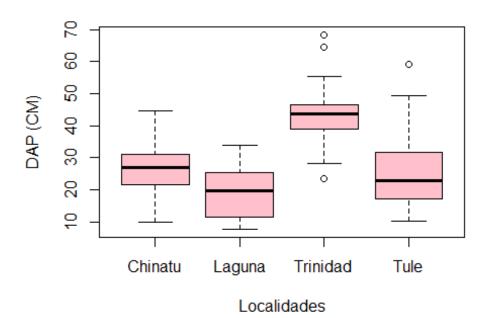
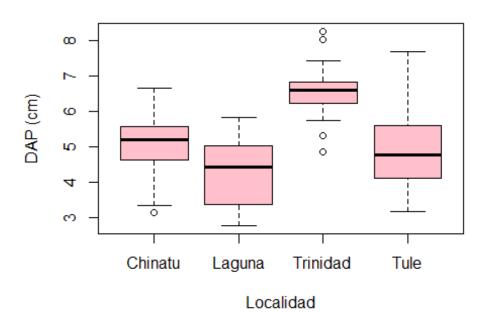
PRACTICA-6.R

Loreee

2025-05-07



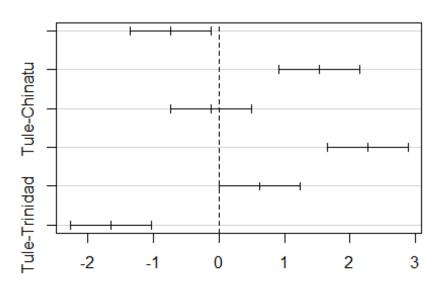
```
tapply(Datos$DAP, Datos$Paraje, mean)
## Chinatu
              Laguna Trinidad
## 26.10000 19.31333 43.67667 25.44667
tapply(Datos$DAP, Datos$Paraje, var)
##
     Chinatu
                                      Tule
                Laguna Trinidad
##
   71.46414 61.71775 81.51840 146.52395
shapiro.test(Datos$DAP)
##
##
   Shapiro-Wilk normality test
##
## data: Datos$DAP
## W = 0.96548, p-value = 0.003575
bartlett.test(Datos$DAP ~ Datos$Paraje)
##
    Bartlett test of homogeneity of variances
##
##
## data: Datos$DAP by Datos$Paraje
## Bartlett's K-squared = 6.6622, df = 3, p-value = 0.08348
Datos$tlog <- log10(Datos$DAP+1)</pre>
shapiro.test(Datos$tlog)
##
##
   Shapiro-Wilk normality test
##
## data: Datos$tlog
## W = 0.97171, p-value = 0.01243
Datos$tsqrt <- sqrt(Datos$DAP)</pre>
shapiro.test(Datos$tsqrt)
##
##
    Shapiro-Wilk normality test
## data: Datos$tsqrt
## W = 0.98341, p-value = 0.1473
bartlett.test(Datos$tsqrt ~ Datos$Paraje)
##
##
    Bartlett test of homogeneity of variances
## data: Datos$tsqrt by Datos$Paraje
## Bartlett's K-squared = 7.6911, df = 3, p-value = 0.05285
```



```
# Iniciar con el AOV
par.aov <- aov(Datos$tsqrt ~ Datos$Paraje)</pre>
summary(par.aov)
##
                 Df Sum Sq Mean Sq F value
                                             Pr(>F)
                    84.09
                            28.029
                                      33.2 1.45e-15 ***
## Datos$Paraje
                  3
## Residuals
                116
                    97.94
                             0.844
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
TukeyHSD(par.aov)
##
     Tukey multiple comparisons of means
       95% family-wise confidence level
##
##
## Fit: aov(formula = Datos$tsqrt ~ Datos$Paraje)
##
## $`Datos$Paraje`
                          diff
##
                                        lwr
                                                   upr
                                                           p adj
## Laguna-Chinatu
                    -0.7331899 -1.351610796 -0.1147691 0.0131794
## Trinidad-Chinatu 1.5391985 0.920777631
                                             2.1576194 0.0000000
## Tule-Chinatu
                    -0.1190328 -0.737453617
                                             0.4993881 0.9585122
## Trinidad-Laguna 2.2723884 1.653967564 2.8908093 0.0000000
```

Tule-Laguna 0.6141572 -0.004263685 1.2325780 0.0523230 ## Tule-Trinidad -1.6582312 -2.276652111 -1.0398104 0.0000000 plot(TukeyHSD(par.aov))

95% family-wise confidence level



Differences in mean levels of Datos\$Paraje