

# UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN FACULTAD DE CIENCIAS FORESTALES



#### **TAREA DOS**

#### USO DE RESTRICCIONES Y ESTADÍSTICAS DESCRIPTIVAS

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**MATRÍCULA** 

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SEPTIEMBRE, 2022

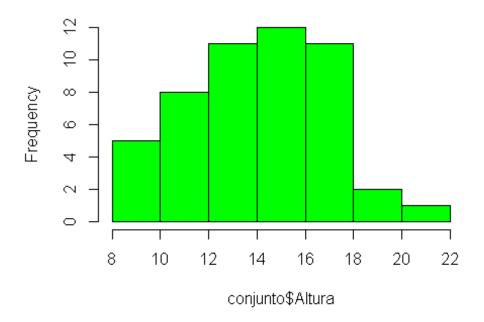
#### Tarea02\_EmanuelMolinaMarchan\_1.R

#### **Emanuel**

2022-09-02

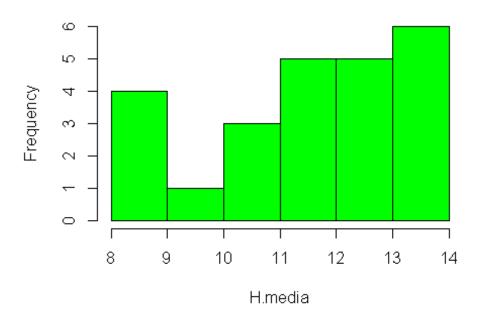
```
rm (list = ls ())
conjunto <- read.csv("cuadro1.csv", header = T)</pre>
head(conjunto)
     Arbol Fecha Especie Clase Vecinos Diametro Altura
##
## 1
              12
                       F
                             C
                                     4
                                           15.3 14.78
                       F
                                     3
## 2
         2
              12
                             D
                                           17.8 17.07
## 3
         3
               9
                       C
                             D
                                     5
                                           18.2 18.28
## 4
         4
               9
                       Н
                             S
                                     4
                                                 8.79
                                            9.7
               7
## 5
         5
                       Н
                             Ι
                                     6
                                           10.8 10.18
## 6
         6
              10
                       C
                             Ι
                                     3
                                           14.1 14.90
H.media <- subset(conjunto$Altura, conjunto$Altura <= mean (conjunto$Altu
ra))
H.16 <- subset (conjunto$Altura, conjunto$Altura < 16.5)
vecinos3 <- subset(conjunto$Vecinos, conjunto$Vecinos <= 3)</pre>
Vecinos4 <- subset(conjunto$Vecinos, conjunto$Vecinos >4)
vecinos3
## [1] 3 3 2 2 3 2 2 3 0 1 3 1 2 3 3 0 1 3 2 0 3 3 3 3 1 3
Vecinos4
   [1] 5 6 5 6 5 5 6 6 5 6 5
DBH.media <- subset(conjunto$Diametro, conjunto$Diametro < mean (conjunto
$Diametro))
DBH.16 <- subset (conjunto$Diametro, conjunto$Diametro > 16)
DBH.media
## [1] 15.3 9.7 10.8 14.1 14.2 14.8 12.4 15.1 13.4 15.0 15.4 14.1 14.8
15.5 13.8
## [16] 13.0 13.1 12.8 13.3 15.6 13.0 10.2 14.4 7.7 9.9
DBH.16
## [1] 17.8 18.2 17.1 20.6 18.2 16.1 19.1 16.7 18.9 17.3 22.7 17.7 16.2
18.5 18.8
## [16] 16.1 17.8 18.5 18.2 22.3 17.8 16.6 20.4 20.9
#Añadir Cedro Rojo
```

#### Histogram of conjunto\$Altura



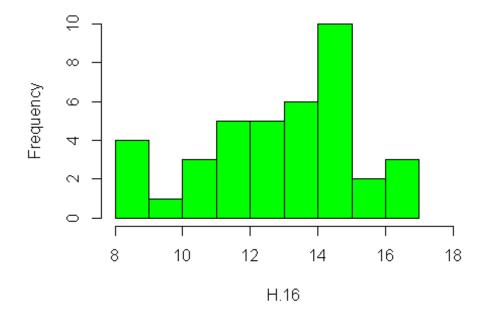
hist(H.media, col="green")

# Histogram of H.media



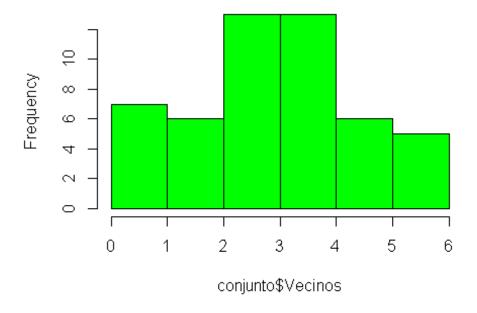
hist(H.16, col="green", xlim = c(8, 18))

## Histogram of H.16



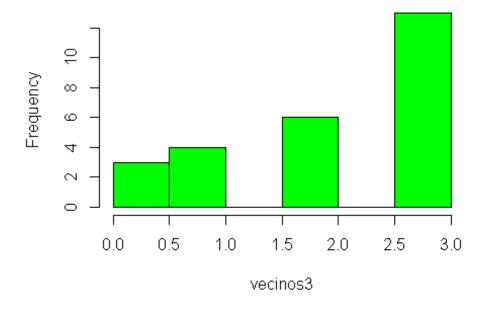
hist(conjunto\$Vecinos, col="green")

# Histogram of conjunto\$Vecinos



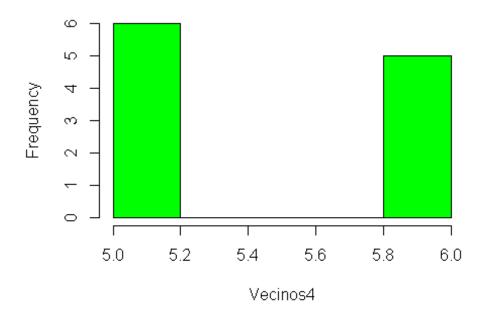
hist(vecinos3, col="green")

## Histogram of vecinos3



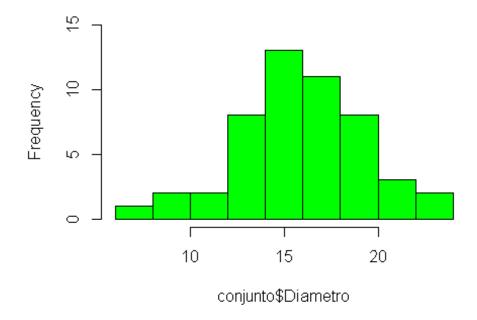
hist(Vecinos4, col="green")

## **Histogram of Vecinos4**



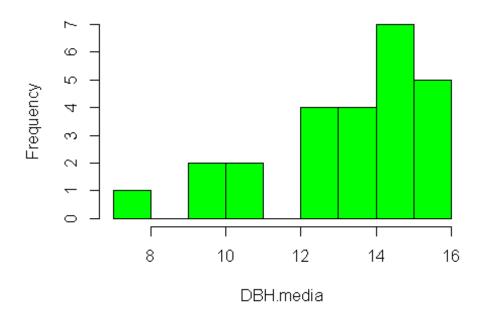
hist(conjunto\$Diametro, ylim=c(0,15), col="green")

#### Histogram of conjunto\$Diametro



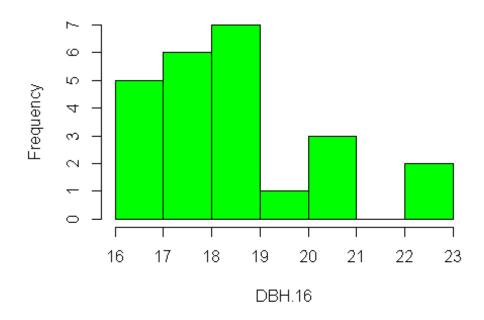
hist(DBH.media, col="green")

## Histogram of DBH.media



hist(DBH.16, col="green")

# Histogram of DBH.16



mean(H.media)

```
## [1] 11.53125
mean(H.16)
## [1] 12.85538
mean(conjunto$Altura)
## [1] 13.9432
mean(conjunto$Vecinos)
## [1] 3.34
mean(vecinos3)
## [1] 2.115385
mean(Vecinos4)
## [1] 5.454545
mean(conjunto$Diametro)
## [1] 15.794
mean(DBH.media)
## [1] 13.256
mean(DBH.16)
## [1] 18.4375
sd(H.media)
## [1] 1.74653
sd(H.16)
## [1] 2.210549
sd(conjunto$Altura)
## [1] 2.907177
sd(conjunto$Vecinos)
## [1] 1.598596
sd(vecinos3)
## [1] 1.070586
sd(Vecinos4)
```

```
## [1] 0.522233

sd(conjunto$Diametro)

## [1] 3.227017

sd(DBH.media)

## [1] 2.098627

sd(DBH.16)

## [1] 1.815588
```