

Clase_S09_D1.R

isa_r

2022-05-20

```
# Amanda
# Semana 9
# 16/03/2022
# Revisar datos peso madera 2x2x2
# BD madera
#PRUEBAS DE NORMALIDAD

# Distribución en una sola cola en la gráfica, cuando solo se quiere
saber si hay diferencias
# dos colas en la gráfica y alfa= +/-0.025, aquí se especifica si hay una
diferencia (< , >)

# Datos paramétricos (valores arriba de 0.05)
# normalidad <- shapiro.test
# datos homogéneos

madera <- read.csv("BD.est.madera2x2.csv", header = T)

library(dplyr)

##
## Attaching package: 'dplyr'

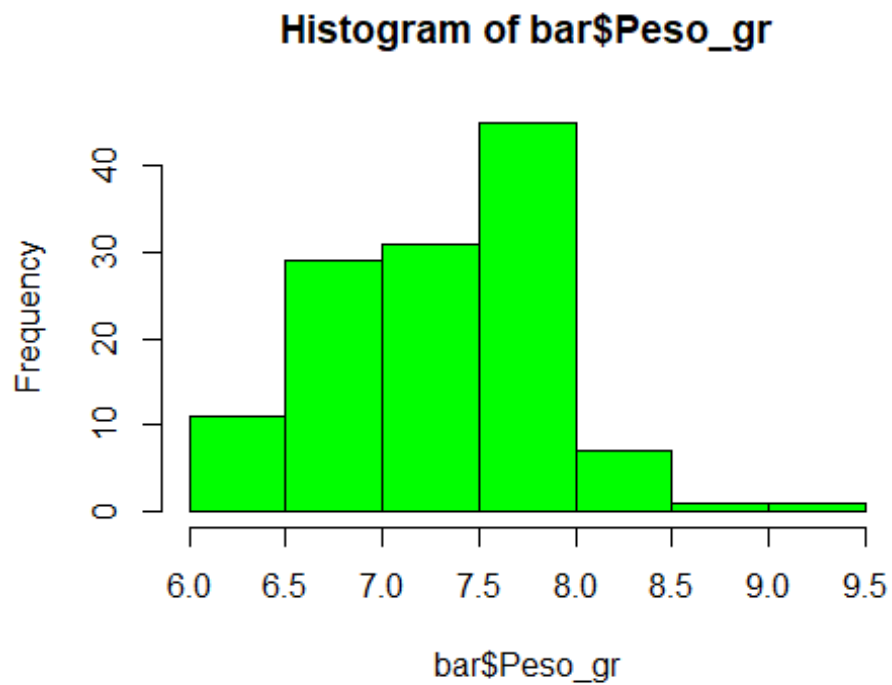
## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

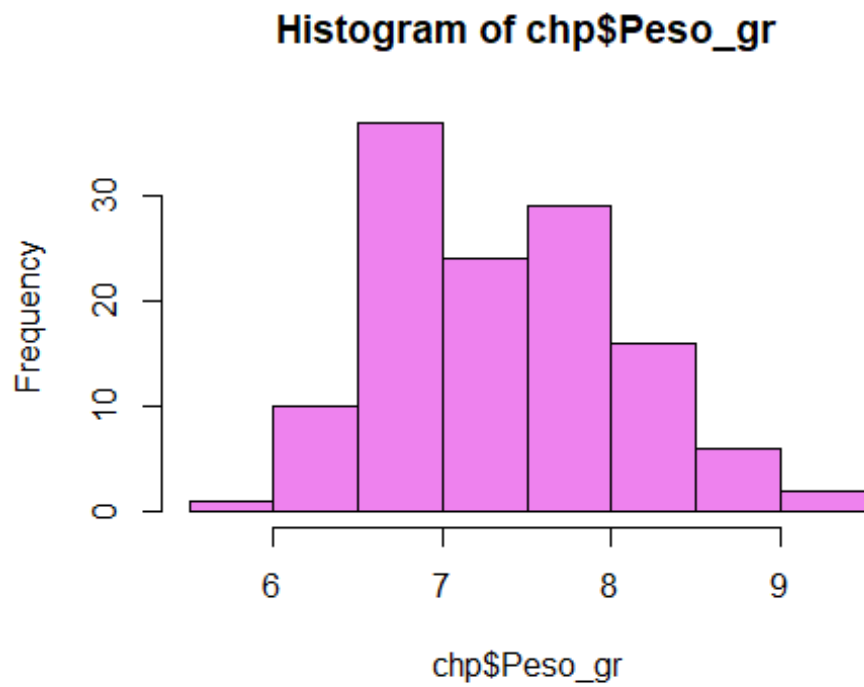
# Sp: Barreta
bar <- madera %>%
  filter(Sp=="Bar")
shapiro.test(bar$Peso_gr)

##
## Shapiro-Wilk normality test
##
## data:  bar$Peso_gr
## W = 0.96151, p-value = 0.001274

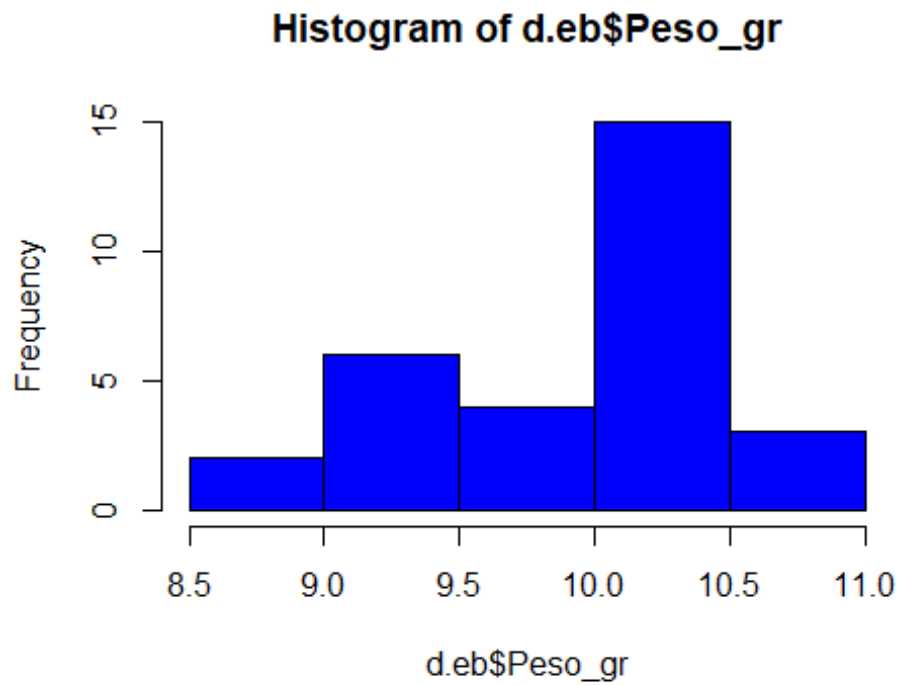
hist(bar$Peso_gr, col = "green")
```



```
chp <- madera %>%  
  filter(Sp=="Chp")  
shapiro.test(chp$Peso_gr)  
  
##  
##  Shapiro-Wilk normality test  
##  
## data:  chp$Peso_gr  
## W = 0.97243, p-value = 0.01166  
  
hist(chp$Peso_gr, col = "violet")
```



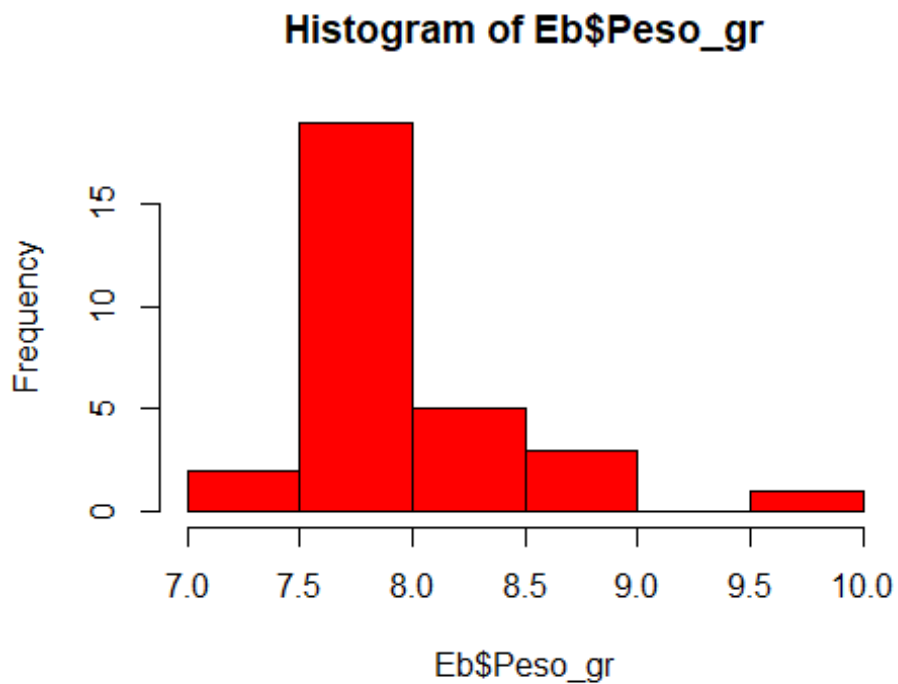
```
d.eb <- madera %>%  
  filter(Sp=="D. Ebano")  
hist(d.eb$Peso_gr, col = "blue")
```



```
shapiro.test(d.eb$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  d.eb$Peso_gr
## W = 0.92214, p-value = 0.03049

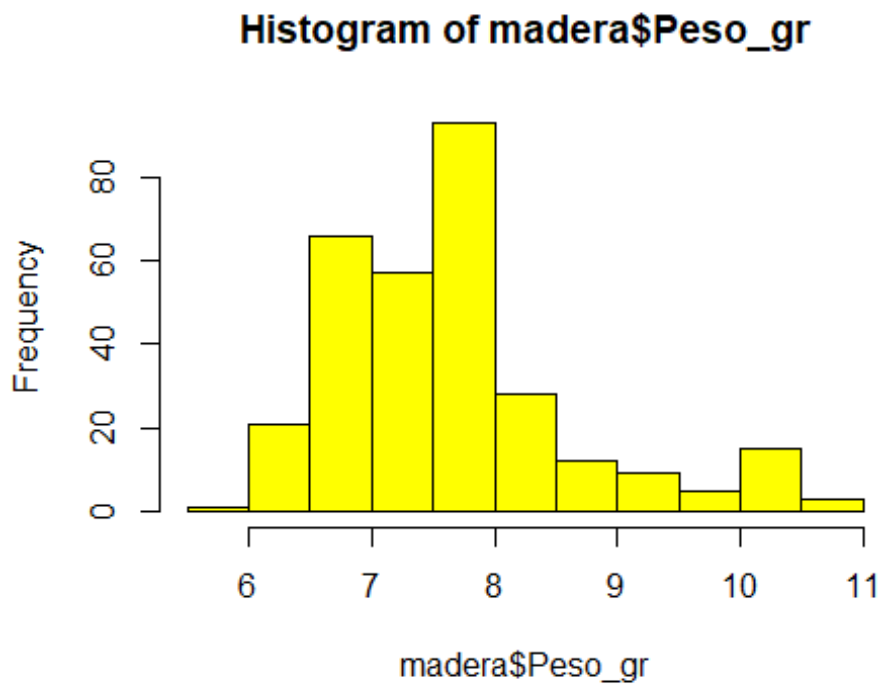
Eb <- madera %>%
  filter(Sp=="Ebano")
hist(Eb$Peso_gr, col = "red")
```



```
shapiro.test(Eb$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  Eb$Peso_gr
## W = 0.83769, p-value = 0.0003461

hist(madera$Peso_gr, col = "yellow")
```

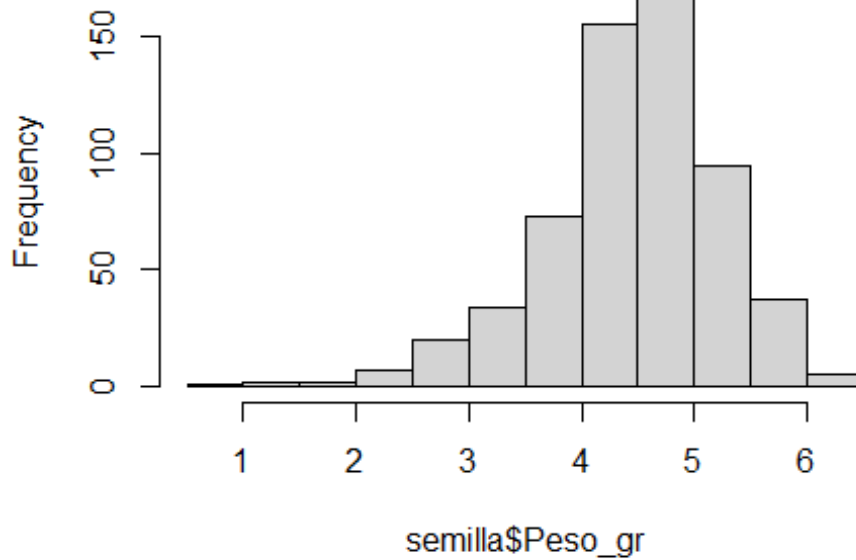


```
shapiro.test(madera$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  madera$Peso_gr
## W = 0.90723, p-value = 7.02e-13

semilla <- read.csv("BaseDeDatos_estadistica.csv", header = T)
hist(semilla$Peso_gr)
```

Histogram of semilla\$Peso_gr

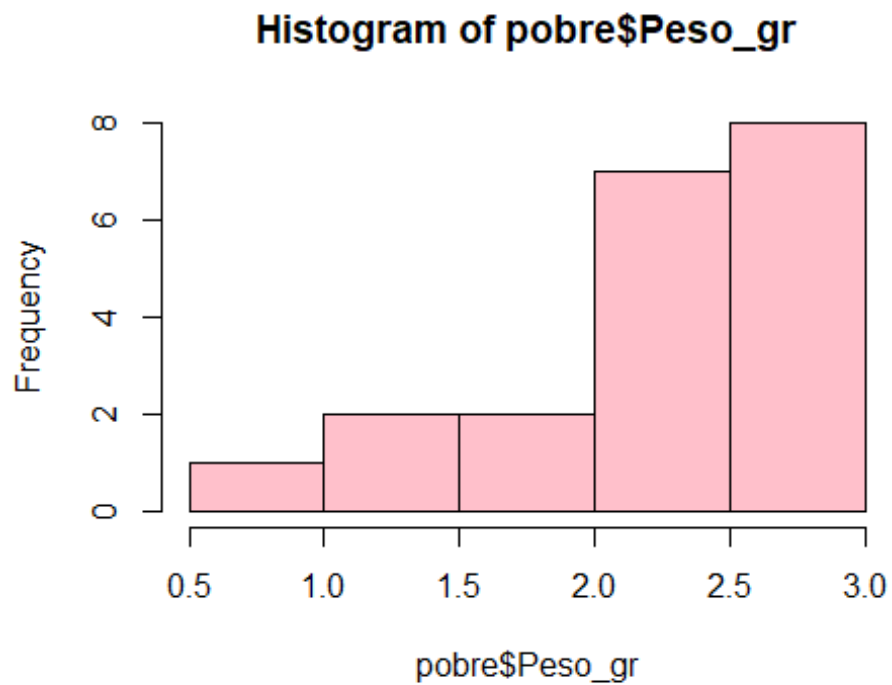


```
shapiro.test(semilla$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  semilla$Peso_gr
## W = 0.96628, p-value = 1.687e-10

semilla$Cond <- as.factor(semilla$Cond)

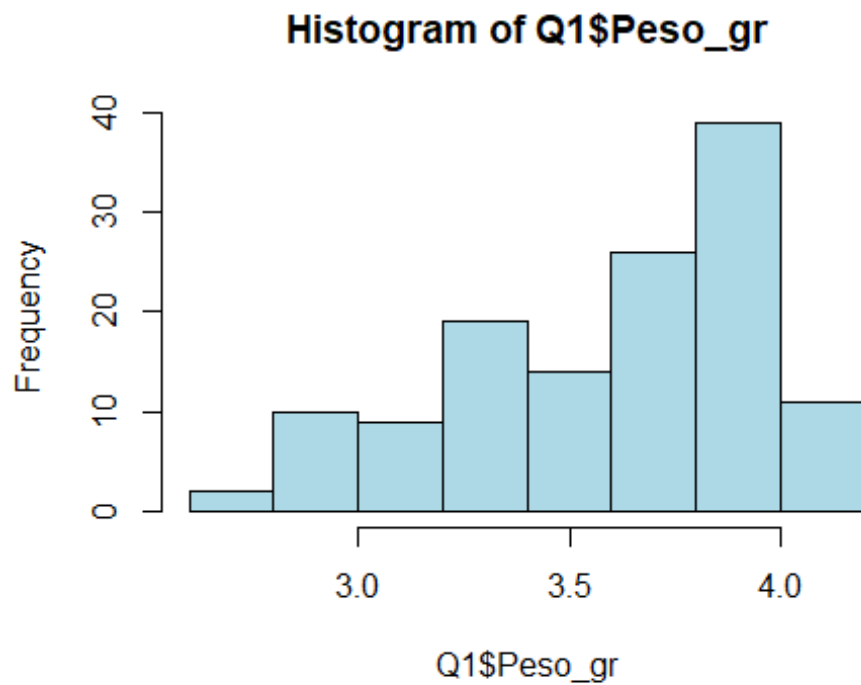
pobre <- semilla %>%
  filter(Cond=="Pobre")
hist(pobre$Peso_gr, col = "pink")
```



```
shapiro.test(pobre$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  pobre$Peso_gr
## W = 0.81115, p-value = 0.001273

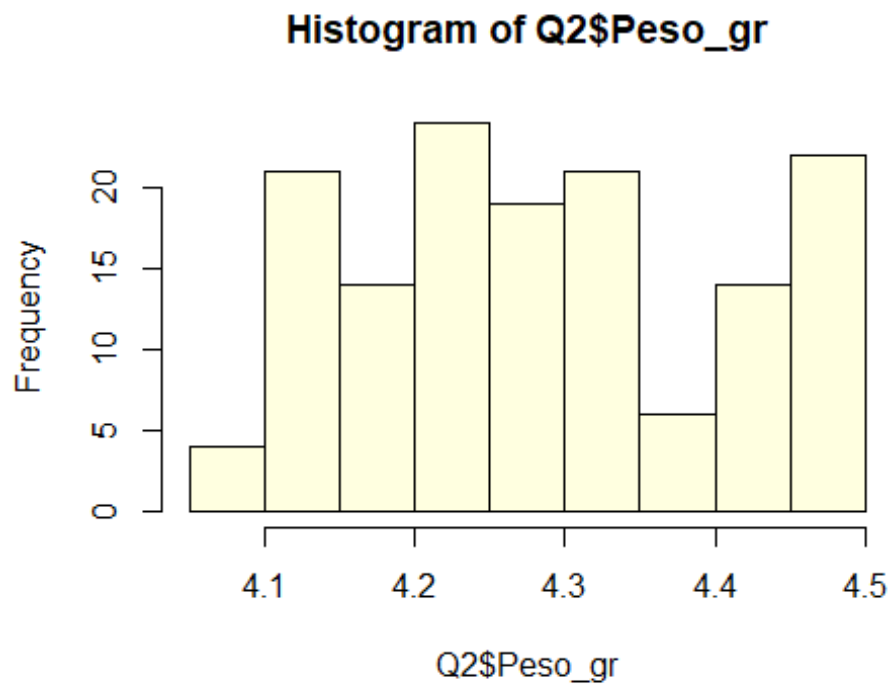
Q1 <- semilla %>%
  filter(Cond=="Q1")
hist(Q1$Peso_gr, col = "lightblue")
```



```
shapiro.test(Q1$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  Q1$Peso_gr
## W = 0.91188, p-value = 3.483e-07

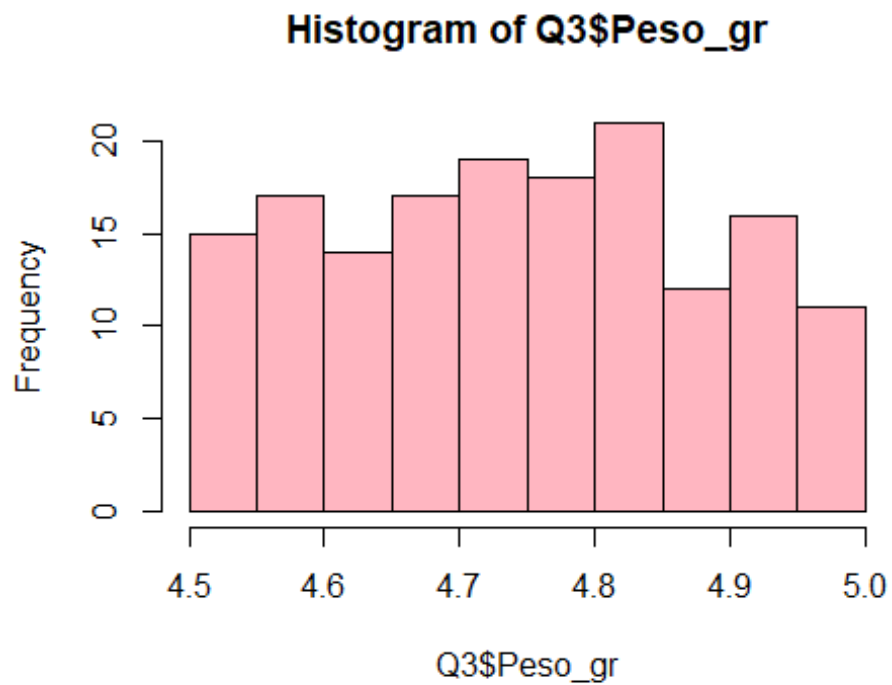
Q2 <- semilla %>%
  filter(Cond=="Q2")
hist(Q2$Peso_gr, col = "lightyellow")
```

```
shapiro.test(Q2$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  Q2$Peso_gr
## W = 0.94714, p-value = 2.613e-05

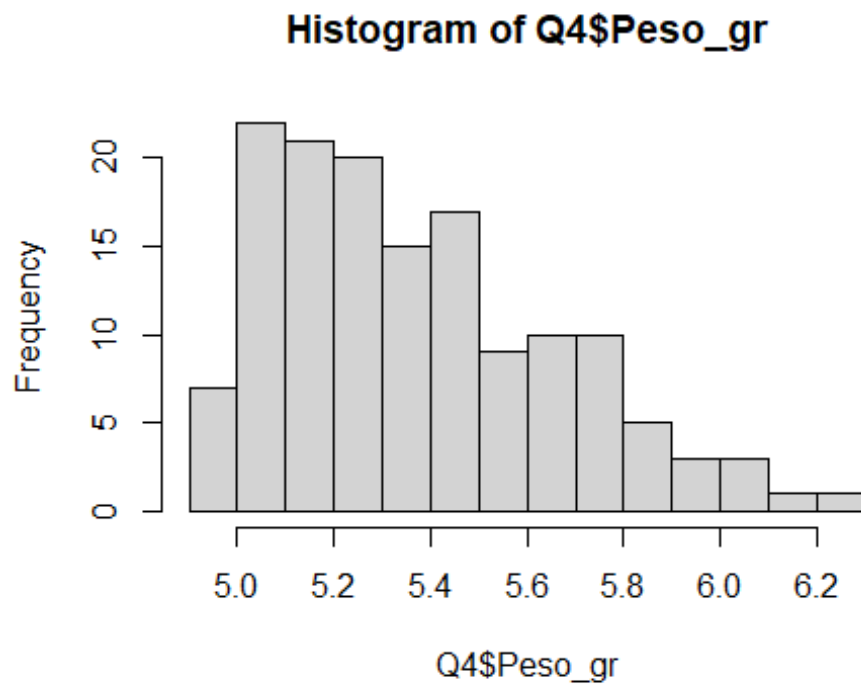
Q3 <- semilla %>%
  filter(Cond=="Q3")
hist(Q3$Peso_gr, col = "lightpink")
```



```
shapiro.test(Q3$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  Q3$Peso_gr
## W = 0.95596, p-value = 6.079e-05

Q4 <- semilla %>%
  filter(Cond=="Q4")
hist(Q4$Peso_gr)
```

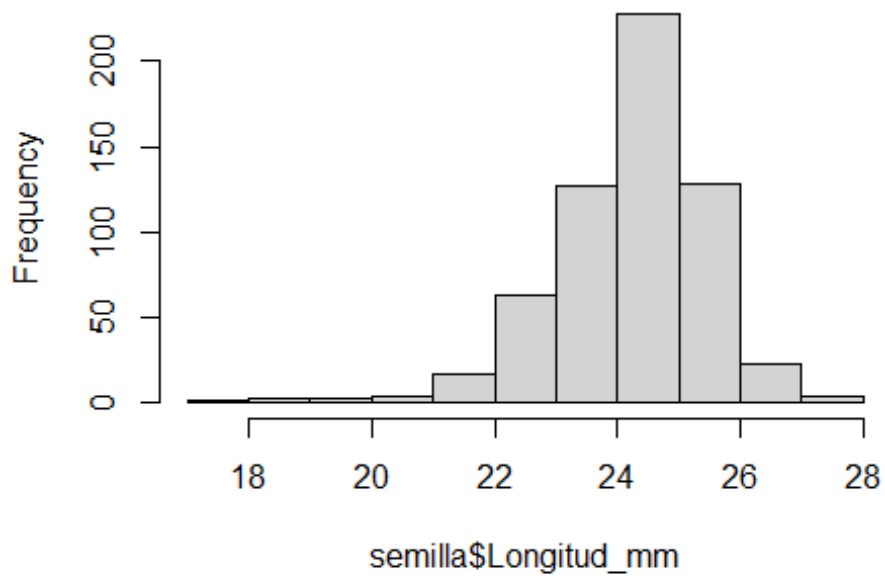


```
shapiro.test(Q4$Peso_gr)

##
##  Shapiro-Wilk normality test
##
## data:  Q4$Peso_gr
## W = 0.93716, p-value = 4.897e-06

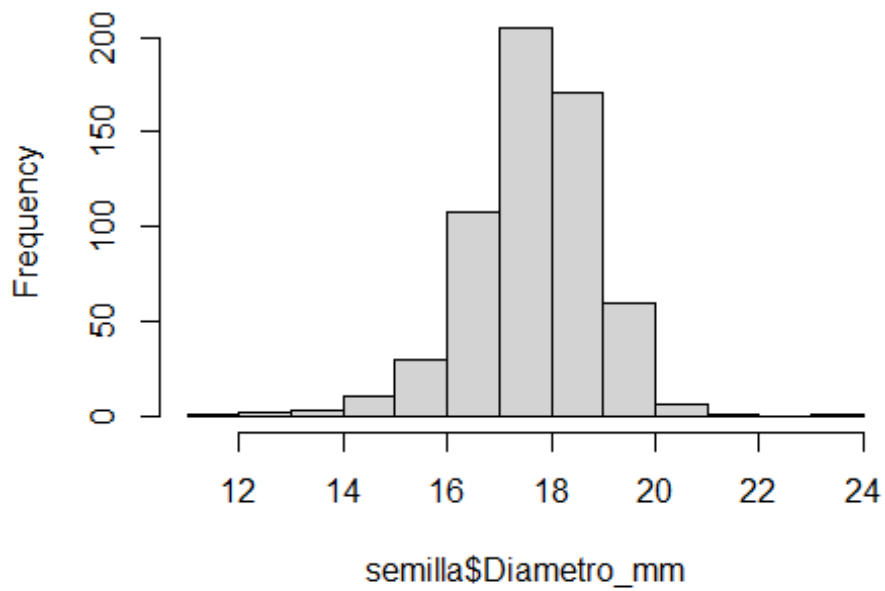
hist(semilla$Longitud_mm)
```

Histogram of semilla\$Longitud_mm



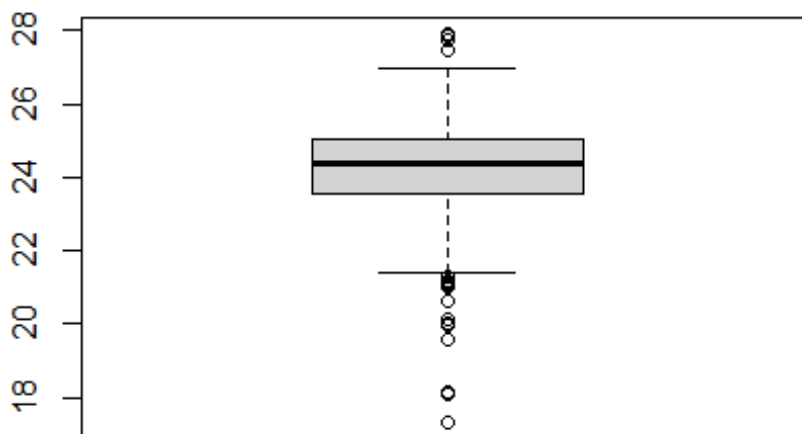
```
hist(semilla$Diametro_mm)
```

Histogram of semilla\$Diametro_mm



```
shapiro.test(semilla$Longitud_mm)
```

```
##  
## Shapiro-Wilk normality test  
##  
## data:  semilla$Longitud_mm  
## W = 0.94899, p-value = 1.629e-13  
  
shapiro.test(semilla$Diametro_mm)  
  
##  
## Shapiro-Wilk normality test  
##  
## data:  semilla$Diametro_mm  
## W = 0.973, p-value = 4.676e-09  
  
boxplot(semilla$Longitud_mm)
```



```
boxplot(semilla$Diametro_mm)
```

