

R5.R

Usuario

2025-11-27

```
costal <- c(87.7, 80.01, 77.28, 78.76, 81.52, 74.2, 80.71, 79.5, 77.87, 81.94, 80.7, 82.32, 75.78, 80.11,
           77.18, 79.83, 81.23, 79.28, 78.44, 79.01, 80.47, 76.23, 78.89, 77.14, 69.94, 78.54, 79.7, 81.1)

media <- mean(costal)
varianza <- var(costal)
t.test(costal, mu=80)

##  
##  One Sample t-test  
##  
## data: costal  
## t = -2.3644, df = 43, p-value = 0.02264  
## alternative hypothesis: true mean is not equal to 80  
## 95 percent confidence interval:  
## 77.98157 79.83980  
## sample estimates:  
## mean of x  
## 78.91068

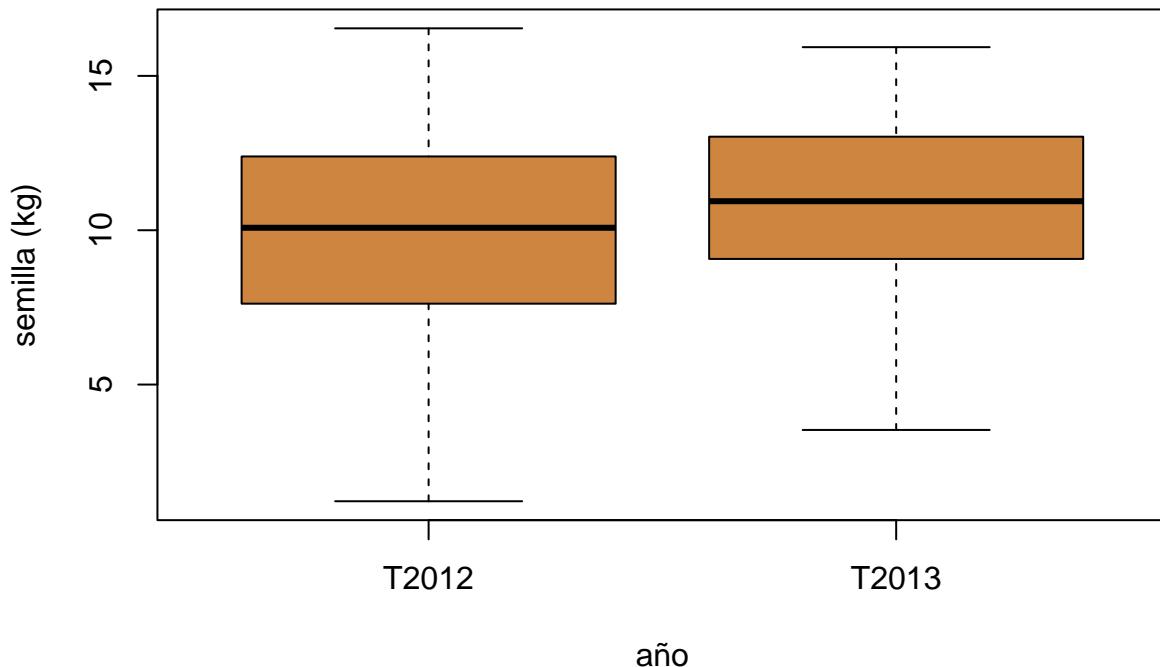
#H0 = es igual a 80
#H1 = no es igual a 80

#producción de semillas
sem <- read.csv("C:/Users/Usuario.PC24.001/Downloads/Oliver NO BORRAR/Repositorio Oliver/Met_Est_2025/E
sem$Tiempo <- as.factor(sem$Tiempo)

tapply(sem$Kgsem, sem$Tiempo, mean)

##    T2012    T2013
## 10.1066 10.8954

boxplot(sem$Kgsem ~ sem$Tiempo,
        col="peru",
        xlab="año",
        ylab="semilla (kg)")
```



```
t2012 <- subset(sem, sem$Tiempo == "T2012")
t2013 <- subset(sem, sem$Tiempo != "T2012")

t.test(t2012$Kgsem, t2013$Kgsem, paired=T, alternative="less")
```

```
##
##  Paired t-test
##
## data: t2012$Kgsem and t2013$Kgsem
## t = -1.2538, df = 49, p-value = 0.1079
## alternative hypothesis: true mean difference is less than 0
## 95 percent confidence interval:
##       -Inf 0.2659778
## sample estimates:
## mean difference
##                 -0.7888
```