Practica_2012_2013

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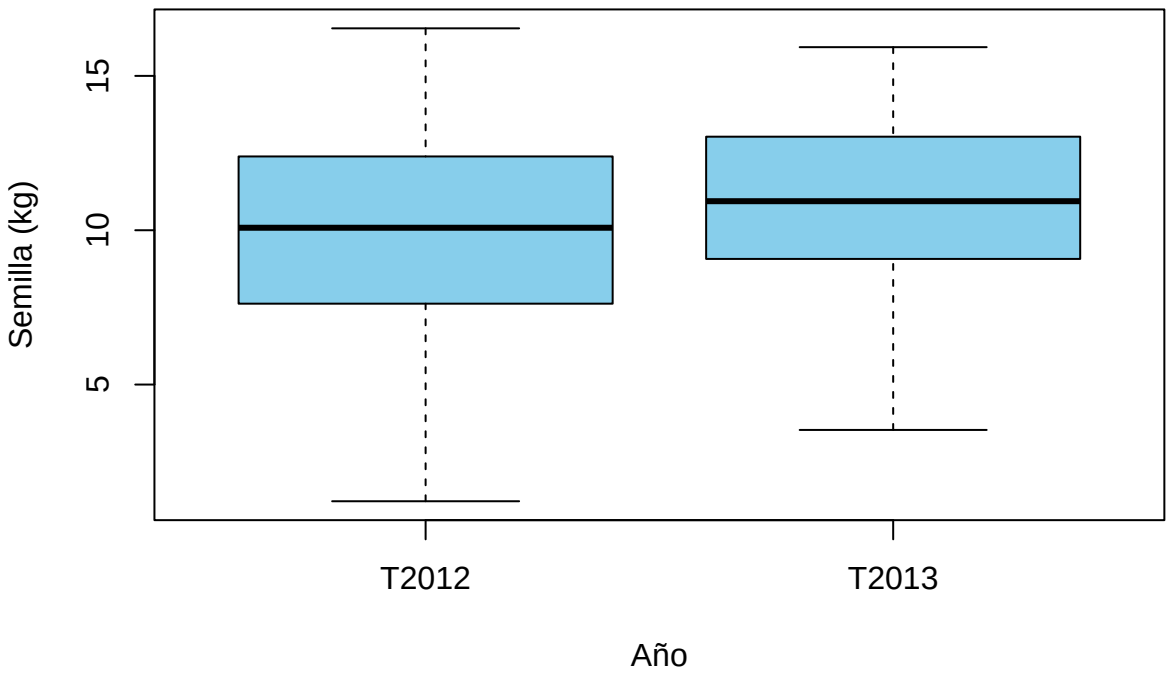
```
# Datos de producción de semilla para los años 2012 y 2013
#se expresa en kg semilla por año

#Importar datos
sem <- read.csv("mainproduccion.csv", header = T)
sem$Tiempo <- as.factor(sem$Tiempo)

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

```
##   T2012   T2013
## 10.1066 10.8954
```

```
boxplot(sem$Kgsem ~ sem$Tiempo,
        col = "skyblue",
        xlab = "Año",
        ylab = "Semilla (kg)")
```




```
t.test(sem$Kgsem ~ sem$Tiempo, var.equal = T)
```

```
##
##  Two Sample t-test
##
## data:  sem$Kgsem by sem$Tiempo
## t = -1.2998, df = 98, p-value = 0.1967
## alternative hypothesis: true difference in means between group T2012 and group T2013 is not equal to
## 95 percent confidence interval:
##  -1.9931048  0.4155048
## sample estimates:
## mean in group T2012 mean in group T2013
##             10.1066             10.8954
```

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

t2013 <- subset(sem, sem$Tiempo == "T2013")
t2013 <- subset(sem, sem$Tiempo != "T2013")

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

```
##
##  Paired t-test
```

```
##
## data:  t2012$Kgsem and t2013$Kgsem
## t = 1.2538, df = 49, p-value = 0.2159
## alternative hypothesis: true mean difference is not equal to 0
## 95 percent confidence interval:
##  -0.4754953  2.0530953
## sample estimates:
## mean difference
##          0.7888
```