03_Correlacion.R

Usuario

2023-09-25

```
# Correlacion
# 25/09/2023
# Leobardo Estrella

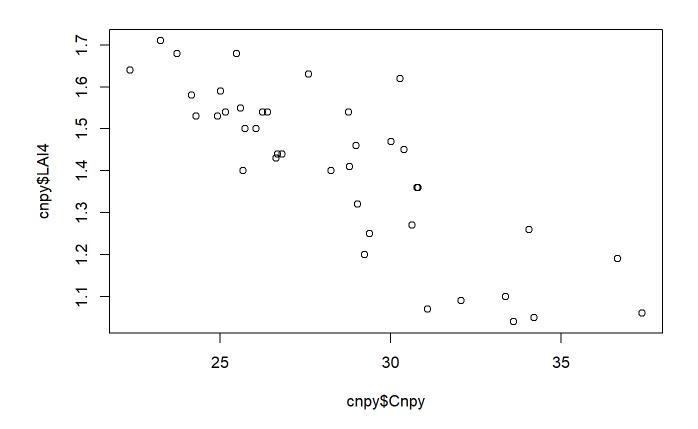
# Importar

setwd ( "C:/Repositorio_Git/Met_ES/Codigos")

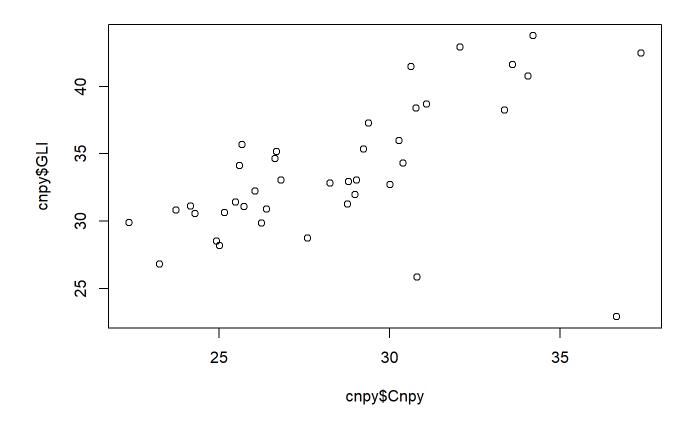
cnpy <- read.csv ("canopy.csv", header = T)
cnpy$Forest <- as.factor(cnpy$Forest)

# Grafica

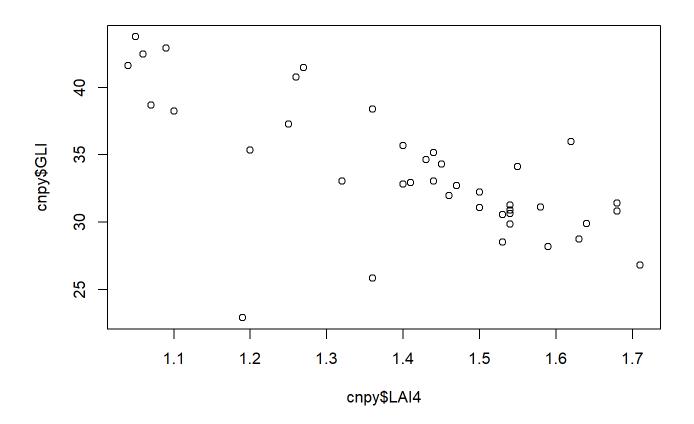
plot(cnpy$Cnpy, cnpy$LAI4)</pre>
```



Asociacion negativa entre Cnpy vs LAI4
plot(cnpy\$Cnpy, cnpy\$GLI)



Asociacion positiva Cnpy vs GLI (lus que llega al suelo)
plot(cnpy\$LAI4, cnpy\$GLI)



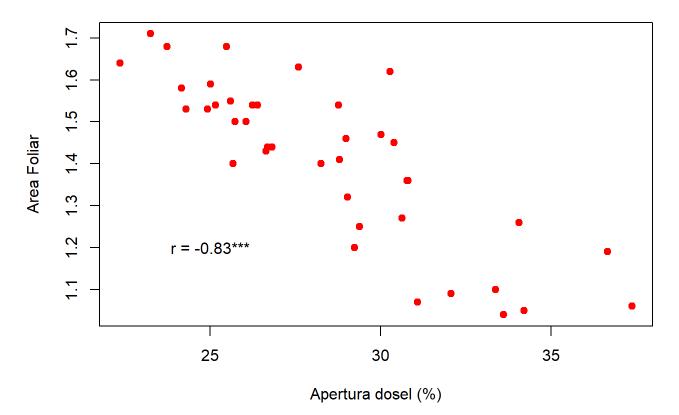
```
##
## Pearson's product-moment correlation
##
## data: cnpy$Cnpy and cnpy$LAI4
## t = -9.2962, df = 38, p-value = 2.493e-11
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.9089473 -0.7049143
## sample estimates:
## cor
## -0.833416
```

```
# Anotar el r dentro de la grafica

plot(cnpy$Cnpy, cnpy$LAI4,
    xlab = "Apertura dosel (%)",
    ylab = "Area Foliar",
    col = "red",
    pch = 19,
    main = "Bosque Escuela")

text(25,1.2, "r = -0.83***")
```

Bosque Escuela

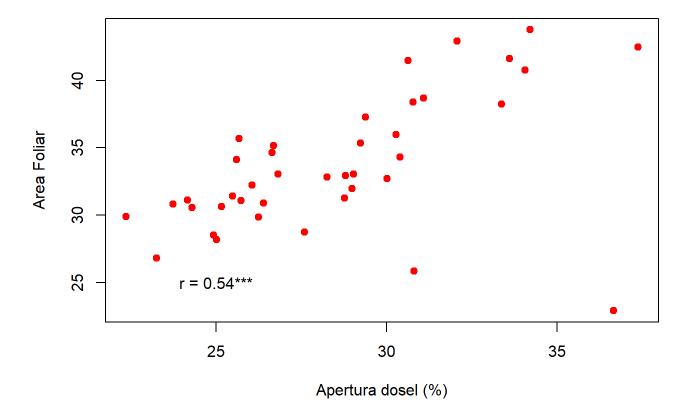


```
plot(cnpy$Cnpy, cnpy$GLI,
    xlab = "Apertura dosel (%)",
    ylab = "Area Foliar",
    col = "red",
    pch = 19,
    main = "Bosque Escuela")
cor.test(cnpy$Cnpy, cnpy$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data: cnpy$Cnpy and cnpy$GLI
## t = 4.0149, df = 38, p-value = 0.0002702
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## 0.2822213 0.7326972
## sample estimates:
## cor
## 0.5457512
```

```
text(25,25, "r = 0.54***")
```

Bosque Escuela



```
plot(cnpy$LAI4, cnpy$GLI,
    xlab = "Apertura dosel (%)",
    ylab = "Area Foliar",
    col = "red",
    pch = 19,
    main = "Bosque Escuela")
cor.test(cnpy$LAI4, cnpy$GLI)
```

```
##
## Pearson's product-moment correlation
##
## data: cnpy$LAI4 and cnpy$GLI
## t = -5.8669, df = 38, p-value = 8.669e-07
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
## -0.8239664 -0.4812537
## sample estimates:
## cor
## -0.6894101
```

```
text(1.2,25, "r = -0.68***")
```

Bosque Escuela

