R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

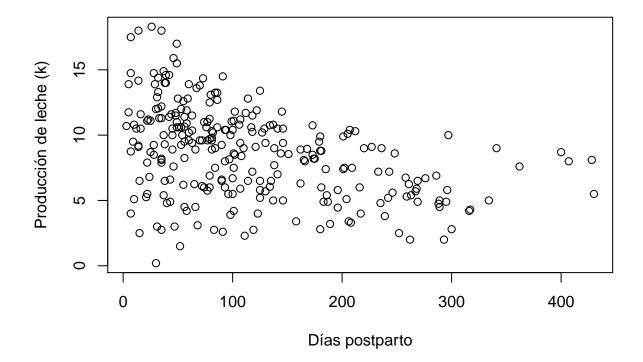
```
lactancia=read.table("DPP_PROD_CC.txt", header=T, dec=",", sep="")
```

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(lactancia)

```
##
            ID
                          DPP
                                           PROD
                                                            CC
                                                                 2
##
    almendron:
                 3
                             :
                               3.0
                                      Min.
                                              : 0.20
                                                       CUATRO:
                     Min.
##
    arrendajo:
                 3
                     1st Qu.: 48.0
                                      1st Qu.: 6.00
                                                       DOS
                                                              :182
    asamblea:
##
                     Median: 91.0
                                      Median: 8.90
                                                       TRES
                                                              : 59
##
    ayudita
                 3
                     Mean
                             :116.5
                                              : 8.65
                                                       UNO
                                                              : 26
                                      Mean
                 3
                     3rd Qu.:173.0
##
    azabache:
                                      3rd Qu.:10.80
##
    azucena
                 3
                     Max.
                             :430.0
                                      Max.
                                              :18.30
    (Other)
             :251
plot(lactancia$DPP,lactancia$PROD,xlab='Días postparto',
     ylab='Producción de leche (k)',
     main='Dispersión Datos de Lactancia')
```

Dispersión Datos de Lactancia



```
library("nlstools")
```

##
'nlstools' has been loaded.

```
## IMPORTANT NOTICE: Most nonlinear regression models and data set examples
## related to predictive microbiolgy have been moved to the package 'nlsMicrobio'
```

Ajuste de producción de leche al modelo de Wood

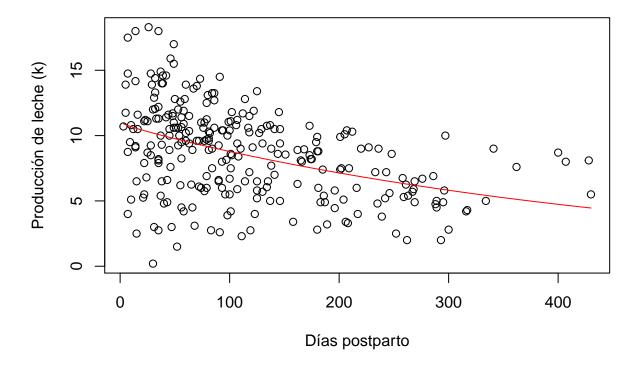
La ecuación que describe el modelo de Wood [?] es la siguiente:

```
y = at^b e^{-ct}
```

```
##
## Formula: PROD ~ a * DPP^b * exp(-c * DPP)
##
## Parameters:
##
      Estimate Std. Error t value Pr(>|t|)
## a 11.0440857 1.6795781
                            6.576 2.55e-10 ***
## b -0.0055613 0.0470363 -0.118 0.905970
## c 0.0020318 0.0006004
                            3.384 0.000822 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3.133 on 266 degrees of freedom
##
## Number of iterations to convergence: 6
## Achieved convergence tolerance: 9.018e-06
## ----
## Residual sum of squares: 2610
##
## -----
## t-based confidence interval:
##
             2.5%
                        97.5%
## a 7.7371268588 14.35104446
## b -0.0981721418 0.08704945
## c 0.0008497054 0.00321399
##
## -----
## Correlation matrix:
             a
## a 1.0000000 -0.9739664 -0.7553082
## b -0.9739664 1.0000000 0.8657931
## c -0.7553082 0.8657931 1.0000000
```

Graficando la línea de regresión sobre la nube de puntos

Ajuste modelo de Wood



You can also embed plots, for example:



Note that the \mbox{echo} = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot