Consumo per cápita

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Introducción

Instalación e importación de las librerias

Configuro el repositorio de CRAN de manera no interactiva

```
options(repos = c(CRAN = "https://cran.r-project.org"))
```

Instalo las librerías que voy a utilizar

```
install.packages("readxl")
```

```
## Installing package into 'C:/Users/gilga/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
```

```
## package 'readxl' successfully unpacked and MD5 sums checked
```

```
## Warning: cannot remove prior installation of package 'readxl'
```

```
## Warning in file.copy(savedcopy, lib, recursive = TRUE): problema al copiar
## C:\Users\gilga\AppData\Local\R\win-library\4.3\00LOCK\readxl\libs\x64\readxl.dll
## a C:\Users\gilga\AppData\Local\R\win-library\4.3\readxl\libs\x64\readxl.dll:
## Permission denied
```

```
## Warning: restored 'readxl'
```

```
##
## The downloaded binary packages are in
##  C:\Users\gilga\AppData\Local\Temp\RtmpyogvX4\downloaded_packages
```

```
install.packages("tidyverse")
```

```
## Installing package into 'C:/Users/gilga/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
```

```
## package 'tidyverse' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\gilga\AppData\Local\Temp\RtmpyogvX4\downloaded_packages
```

```
install.packages("httr")
```

```
## Installing package into 'C:/Users/gilga/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
```

```
## package 'httr' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\gilga\AppData\Local\Temp\RtmpyogvX4\downloaded_packages
```

```
install.packages("rmarkdown")
```

```
## Installing package into 'C:/Users/gilga/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
```

```
## package 'rmarkdown' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\gilga\AppData\Local\Temp\RtmpyogvX4\downloaded_packages
```

```
install.packages("dplyr")
```

```
## Installing package into 'C:/Users/gilga/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
```

```
## package 'dplyr' successfully unpacked and MD5 sums checked
```

```
## Warning: cannot remove prior installation of package 'dplyr'
```

```
## Warning in file.copy(savedcopy, lib, recursive = TRUE): problema al copiar
## C:\Users\gilga\AppData\Local\R\win-library\4.3\00LOCK\dplyr\libs\x64\dplyr.dll
## a C:\Users\gilga\AppData\Local\R\win-library\4.3\dplyr\libs\x64\dplyr.dll:
## Permission denied
```

```
## Warning: restored 'dplyr'
```

```
##
## The downloaded binary packages are in
##  C:\Users\gilga\AppData\Local\Temp\RtmpyogvX4\downloaded_packages
```

Y ahora las cargo

```
library(readxl)
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.2     v readr     2.1.4
## v forcats   1.0.0     v stringr   1.5.0
## v ggplot2   3.4.3     v tibble    3.2.1
## v lubridate 1.9.2     v tidyr     1.3.0
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(httr)
library(rmarkdown)
library(dplyr)
```

Importación de los datos

Importo los archivos a un dataframe que anido en una lista

```
lista_archivo <- c("2000", "2001", "2002", "2003", "2004", "2005", "2006",
                   "2007", "2008", "2009", "2010", "2011", "2012", "2013",
                   "2014", "2015", "2016", "2017", "2018", "2019", "2020",
                   "2021", "2022")
```

```
ruta <- "https://github.com/DMorgon/portafolios/raw/main"
rama <- "alimentacion/datos_origen"

lista_df <- list()

for (i in seq(from = 1, to = 23, by = 1)) {
  archivo_url <- paste0(ruta, "/", rama, "/", lista_archivo[i], ".xlsx")

  response <- GET(archivo_url)
  archivo_temporal <- tempfile(fileext = ".xlsx")
  writeBin(content(response, "raw"), archivo_temporal)

  if (i <= 20)
    df <- read_excel(path = archivo_temporal, sheet = 4, skip = 2)
  else
    df <- read_excel(path = archivo_temporal, sheet = 5, skip = 2)
  lista_df[[i]] <- df
}
```

```
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
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## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## New names:
## * `` -> `...1`
```

Preparación de los datos

A continuación, examino la estructura interna de cada marco de datos

```
for (i in seq(from = 1, to = 23, by = 1)) {
  nombre_df <- paste0("df_", lista_archivo[i])
  cat("\n", "Nombre de la tabla de datos:", nombre_df, "\n")
  str(lista_df[[i]])
}
```

```
##
```

```
##  Nombre de la tabla de datos: df_2000
## tibble [334 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:334] "TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ .TOTAL ESPAÑA     : num [1:334] 99.8 76.05 76.05 75.83 1.04 ...
##  $ CATALUÑA          : num [1:334] 99.85 86.31 86.31 86.03 1.93 ...
##  $ ARAGON            : num [1:334] 99.66 77.05 77.05 76.68 1.29 ...
##  $ BALEARES          : num [1:334] 99.937 74.835 74.835 74.827 0.259 ...
##  $ VALENCIA          : num [1:334] 99.846 81.943 81.943 81.9 0.454 ...
##  $ MURCIA            : num [1:334] 99.407 70.997 70.997 70.727 0.337 ...
##  $ ANDALUCIA         : num [1:334] 99.82 71.23 71.23 70.93 1.14 ...
##  $ MADRID            : num [1:334] 99.552 81.756 81.756 81.575 0.922 ...
##  $ CASTILLA-LA MANCHA: num [1:334] 99.832 67.603 67.603 67.31 0.976 ...
##  $ EXTREMADURA       : num [1:334] 99.889 61.378 61.378 61.005 0.422 ...
##  $ CASTILLA Y LEON   : num [1:334] 99.927 73.185 73.185 73.04 0.758 ...
##  $ GALICIA           : num [1:334] 99.832 54.378 54.378 54.417 0.214 ...
##  $ ASTURIAS          : num [1:334] 99.823 83.16 83.16 83.19 0.527 ...
##  $ CANTABRIA         : num [1:334] 100.002 78.438 78.438 78.498 0.918 ...
##  $ PAIS VASCO        : num [1:334] 99.87 83.24 83.24 82.79 2.48 ...
##  $ RIOJA             : num [1:334] 99.769 79.491 79.491 79.418 0.745 ...
##  $ NAVARRA           : num [1:334] 99.58 86.9 86.9 85.81 1.52 ...
##  $ CANARIAS          : num [1:334] 99.975 62.2583 62.2583 62.2517 0.0667 ...
##
##  Nombre de la tabla de datos: df_2001
## tibble [334 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:334] "TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ .TOTAL ESPAÑA     : num [1:334] 99.56 77.52 77.52 77.31 1.11 ...
##  $ CATALUÑA          : num [1:334] 99.61 84.11 84.11 83.9 1.74 ...
##  $ ARAGON            : num [1:334] 99.58 84.82 84.82 84.59 1.26 ...
##  $ BALEARES          : num [1:334] 99.741 76.865 76.865 76.499 0.945 ...
##  $ VALENCIA          : num [1:334] 99.332 80.168 80.168 79.813 0.722 ...
##  $ MURCIA            : num [1:334] 99.2 73.365 73.365 73.019 0.523 ...
##  $ ANDALUCIA         : num [1:334] 99.54 75.16 75.16 74.9 1.45 ...
##  $ MADRID            : num [1:334] 99.443 83.922 83.922 83.836 0.813 ...
##  $ CASTILLA-LA MANCHA: num [1:334] 99.567 67.363 67.363 67.26 0.347 ...
##  $ EXTREMADURA       : num [1:334] 99.849 68.224 68.224 68.224 0.316 ...
##  $ CASTILLA Y LEON   : num [1:334] 99.7 74.5 74.5 74.3 1 ...
##  $ GALICIA           : num [1:334] 99.739 59.053 59.053 59.039 0.261 ...
##  $ ASTURIAS          : num [1:334] 99.454 85.387 85.387 85.307 0.299 ...
##  $ CANTABRIA         : num [1:334] 99.919 79.474 79.474 79.383 0.363 ...
##  $ PAIS VASCO        : num [1:334] 99.51 87.22 87.22 86.68 2.74 ...
##  $ RIOJA             : num [1:334] 100 74.46 74.46 74.18 3.15 ...
##  $ NAVARRA           : num [1:334] 99.69 89.53 89.53 88.93 1.37 ...
##  $ CANARIAS          : num [1:334] 99.535 57.783 57.783 57.783 0.452 ...
##
##  Nombre de la tabla de datos: df_2002
## tibble [361 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:361] "TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ .TOTAL ESPAÑA     : num [1:361] 99.55 76.47 76.47 76.23 1.12 ...
##  $ CATALUÑA          : num [1:361] 99.7 83.6 83.6 83.4 1.5 ...
##  $ ARAGON            : num [1:361] 99.5 85.1 85.1 84.6 1.6 ...
##  $ BALEARES          : num [1:361] 99.873 77.524 77.524 77.353 0.565 ...
##  $ VALENCIA          : num [1:361] 99.342 78.933 78.933 78.715 0.997 ...
##  $ MURCIA            : num [1:361] 99.125 70.893 70.893 70.806 0.418 ...
##  $ ANDALUCIA         : num [1:361] 99.72 71.2 71.2 70.83 1.62 ...
```

```
##  $ MADRID            : num [1:361] 99.41 82.73 82.73 82.58 1.05 ...
##  $ CASTILLA-LA MANCHA: num [1:361] 99.527 68.013 68.013 67.798 0.566 ...
##  $ EXTREMADURA       : num [1:361] 99.9 64.851 64.851 64.666 0.393 ...
##  $ CASTILLA Y LEON   : num [1:361] 99.739 73.283 73.283 72.983 0.906 ...
##  $ GALICIA           : num [1:361] 99.772 62.419 62.419 62.382 0.351 ...
##  $ ASTURIAS          : num [1:361] 99.781 82.203 82.203 82.068 0.488 ...
##  $ CANTABRIA         : num [1:361] 99.594 74.869 74.869 74.869 0.116 ...
##  $ PAIS VASCO        : num [1:361] 99.24 86.59 86.59 86.25 1.52 ...
##  $ RIOJA             : num [1:361] 99.96 75.81 75.81 74.16 2.48 ...
##  $ NAVARRA           : num [1:361] 99.7 84.1 84.1 83.7 1.3 ...
##  $ CANARIAS          : num [1:361] 98.359 63.779 63.779 63.779 0.909 ...
##
##  Nombre de la tabla de datos: df_2003
## tibble [361 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:361] "TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ .TOTAL ESPAÑA     : num [1:361] 99.47 77.09 77.09 76.83 1.29 ...
##  $ CATALUÑA          : num [1:361] 99.63 82.48 82.48 82.14 2.26 ...
##  $ ARAGON            : num [1:361] 99.3 87.8 87.8 87.5 1.8 ...
##  $ BALEARES          : num [1:361] 99.411 81.972 81.972 81.712 0.925 ...
##  $ VALENCIA          : num [1:361] 99.269 82.013 82.013 81.873 0.978 ...
##  $ MURCIA            : num [1:361] 98.826 71.266 71.266 70.927 0.541 ...
##  $ ANDALUCIA         : num [1:361] 99.54 72.23 72.23 71.85 1.67 ...
##  $ MADRID            : num [1:361] 99.11 81.24 81.24 80.99 1.16 ...
##  $ CASTILLA-LA MANCHA: num [1:361] 99.59 70.991 70.991 70.609 0.937 ...
##  $ EXTREMADURA       : num [1:361] 99.7267 67.8675 67.8675 67.8675 0.0417 ...
##  $ CASTILLA Y LEON   : num [1:361] 99.729 75.717 75.717 75.51 0.895 ...
##  $ GALICIA           : num [1:361] 99.647 59.006 59.006 58.961 0.687 ...
##  $ ASTURIAS          : num [1:361] 99.78 80.87 80.87 80.834 0.263 ...
##  $ CANTABRIA         : num [1:361] 99.914 72.394 72.394 72.12 0.397 ...
##  $ PAIS VASCO        : num [1:361] 99.17 86 86 85.72 1.51 ...
##  $ RIOJA             : num [1:361] 99.79 74.53 74.53 73.55 1.78 ...
##  $ NAVARRA           : num [1:361] 99.762 85.097 85.097 84.988 0.575 ...
##  $ CANARIAS          : num [1:361] 99.755 70.854 70.854 70.626 0.858 ...
##
##  Nombre de la tabla de datos: df_2004
## tibble [448 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:448] ".TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ T.ESPAÑA          : num [1:448] 99.01 73.96 73.96 73.68 1.45 ...
##  $ CATALUÑA          : num [1:448] 99.18 77.72 77.72 77.37 2.19 ...
##  $ ARAGON            : num [1:448] 99.46 84.18 84.18 83.44 2.99 ...
##  $ BALEARES          : num [1:448] 97.749 66.106 66.106 65.652 0.557 ...
##  $ VALENCIA          : num [1:448] 97.78 78.94 78.94 78.85 0.94 ...
##  $ MURCIA            : num [1:448] 94.938 69.022 69.022 68.946 0.469 ...
##  $ T.ANDALUCIA       : num [1:448] 96.54 69.53 69.53 69.01 2.35 ...
##  $ MADRID            : num [1:448] 99.11 79.96 79.96 79.86 1.07 ...
##  $ CASTILLA LA MANCHA: num [1:448] 98.47 68.84 68.84 68.62 1.02 ...
##  $ EXTREMADURA       : num [1:448] 99.449 63.815 63.815 63.763 0.374 ...
##  $ CASTILLA LEON     : num [1:448] 100 71.02 71.02 70.68 1.06 ...
##  $ GALICIA           : num [1:448] 99.528 60.425 60.425 60.407 0.409 ...
##  $ ASTURIAS          : num [1:448] 99.871 77.899 77.899 77.865 0.682 ...
##  $ CANTABRIA         : num [1:448] 96 74.3 74.3 74.3 0 ...
##  $ PAIS VASCO        : num [1:448] 98.92 80.47 80.47 79.97 2.19 ...
##  $ LA RIOJA          : num [1:448] 99.6 70.7 70.7 69.6 2.3 ...
##  $ NAVARRA           : num [1:448] 96.171 84.486 84.486 83.751 0.963 ...
```

```
##  $ CANARIAS          : num [1:448] 96.994 67.462 67.462 67.331 0.547 ...
##  $ NORESTE           : num [1:448] 99.14 77.48 77.48 77.07 2.13 ...
##  $ LEVANTE           : num [1:448] 97.358 76.939 76.939 76.854 0.843 ...
##  $ ANDALUCIA         : num [1:448] 96.54 69.53 69.53 69.01 2.35 ...
##  $ CENTRO-SUR        : num [1:448] 99.407 75.53 75.53 75.407 0.969 ...
##  $ CASTILLA Y LEON   : num [1:448] 100 71.02 71.02 70.68 1.06 ...
##  $ NOROESTE          : num [1:448] 99.731 65.674 65.674 65.653 0.492 ...
##  $ NORTE             : num [1:448] 98.84 79.34 79.34 78.83 1.68 ...
##  $ T.CANARIAS        : num [1:448] 96.994 67.462 67.462 67.331 0.547 ...
##
##  Nombre de la tabla de datos: df_2005
## tibble [465 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:465] ".TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ T.ESPAÑA          : num [1:465] 99.19 68 68 67.66 1.92 ...
##  $ CATALUÑA          : num [1:465] 99.2 71.3 71.3 70.9 3 ...
##  $ ARAGON            : num [1:465] 99.9 74.35 74.35 73.35 4.05 ...
##  $ BALEARES          : num [1:465] 98.83 63.41 63.41 63.38 1.13 ...
##  $ VALENCIA          : num [1:465] 98.36 73.9 73.9 73.59 2.06 ...
##  $ MURCIA            : num [1:465] 96.705 66.043 66.043 65.92 0.723 ...
##  $ T.ANDALUCIA       : num [1:465] 98.41 63.38 63.38 62.88 2.34 ...
##  $ MADRID            : num [1:465] 98.52 72.26 72.26 72.1 1.14 ...
##  $ CASTILLA LA MANCHA: num [1:465] 99.48 65.71 65.71 65.36 1.84 ...
##  $ EXTREMADURA       : num [1:465] 99.007 61.16 61.16 61.125 0.617 ...
##  $ CASTILLA LEON     : num [1:465] 99.92 64.61 64.61 64.16 1.61 ...
##  $ GALICIA           : num [1:465] 100 52.545 52.545 52.345 0.501 ...
##  $ ASTURIAS          : num [1:465] 100 67.085 67.085 67.092 0.377 ...
##  $ CANTABRIA         : num [1:465] 98.846 68.549 68.549 68.552 0.641 ...
##  $ PAIS VASCO        : num [1:465] 99.1 77.61 77.61 77.3 2.86 ...
##  $ LA RIOJA          : num [1:465] 100 65.06 65.06 62.7 3.33 ...
##  $ NAVARRA           : num [1:465] 99.64 83.35 83.35 83.01 1.65 ...
##  $ CANARIAS          : num [1:465] 98.25 63.16 63.16 62.71 1.37 ...
##  $ NORESTE           : num [1:465] 99.33 70.94 70.94 70.51 2.97 ...
##  $ LEVANTE           : num [1:465] 98.09 72.31 72.31 72.04 1.79 ...
##  $ ANDALUCIA         : num [1:465] 98.41 63.38 63.38 62.88 2.34 ...
##  $ CENTRO-SUR        : num [1:465] 98.88 69.45 69.45 69.26 1.22 ...
##  $ CASTILLA Y LEON   : num [1:465] 99.92 64.61 64.61 64.16 1.61 ...
##  $ NOROESTE          : num [1:465] 100 56.882 56.882 56.744 0.463 ...
##  $ NORTE             : num [1:465] 99.43 76.08 76.08 75.63 2.36 ...
##  $ T.CANARIAS        : num [1:465] 98.25 63.16 63.16 62.71 1.37 ...
##
##  Nombre de la tabla de datos: df_2006
## tibble [465 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:465] ".TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "GALLINA" ...
##  $ T.ESPAÑA          : num [1:465] 98.29 69.33 69.33 68.98 1.99 ...
##  $ CATALUÑA          : num [1:465] 98.7 74.19 74.19 73.68 3.02 ...
##  $ ARAGON            : num [1:465] 99.21 75.98 75.98 75.01 4.75 ...
##  $ BALEARES          : num [1:465] 97.78 60.94 60.94 60.58 1.32 ...
##  $ VALENCIA          : num [1:465] 97.28 73.85 73.85 73.56 1.95 ...
##  $ MURCIA            : num [1:465] 95.23 66.42 66.42 65.99 1.58 ...
##  $ T.ANDALUCIA       : num [1:465] 96.98 66.86 66.86 66.47 2.39 ...
##  $ MADRID            : num [1:465] 97.93 71.46 71.46 71.12 1.44 ...
##  $ CASTILLA LA MANCHA: num [1:465] 98.4 67.68 67.68 67.23 2.56 ...
##  $ EXTREMADURA       : num [1:465] 99.148 65.334 65.334 65.297 0.669 ...
##  $ CASTILLA LEON     : num [1:465] 100 66.93 66.93 66.72 1.11 ...
```

```
##  $ GALICIA           : num [1:465] 99.087 52.903 52.903 52.826 0.184 ...
##  $ ASTURIAS          : num [1:465] 99.692 68.982 68.982 68.944 0.254 ...
##  $ CANTABRIA         : num [1:465] 99.28 69.19 69.19 68.81 1.38 ...
##  $ PAIS VASCO        : num [1:465] 97.39 76 76 75.75 2.62 ...
##  $ LA RIOJA          : num [1:465] 99.12 64.97 64.97 64.34 2.68 ...
##  $ NAVARRA           : num [1:465] 99.43 79.57 79.57 79.41 1.49 ...
##  $ CANARIAS          : num [1:465] 96.36 63.87 63.87 63.78 1.69 ...
##  $ NORESTE           : num [1:465] 98.7 73.1 73.1 72.6 3.1 ...
##  $ LEVANTE           : num [1:465] 96.87 72.36 72.36 72.05 1.87 ...
##  $ ANDALUCIA         : num [1:465] 96.98 66.86 66.86 66.47 2.39 ...
##  $ CENTRO-SUR        : num [1:465] 98.22 69.87 69.87 69.55 1.57 ...
##  $ CASTILLA Y LEON   : num [1:465] 100 66.93 66.93 66.72 1.11 ...
##  $ NOROESTE          : num [1:465] 99.266 57.707 57.707 57.64 0.207 ...
##  $ NORTE             : num [1:465] 98.41 74.53 74.53 74.25 2.23 ...
##  $ T.CANARIAS        : num [1:465] 96.36 63.87 63.87 63.78 1.69 ...
##
##  Nombre de la tabla de datos: df_2007
## tibble [552 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:552] ".TOTAL ALIMENTACION" "HUEVOS KGS" "HUEVOS" "HUEVOS G." ...
##  $ T.ESPAÑA          : num [1:552] 98.51 70 70 69.62 4.82 ...
##  $ CATALUÑA          : num [1:552] 98.5 75.6 75.6 75.1 3.1 ...
##  $ ARAGON            : num [1:552] 99.55 75.48 75.48 75.14 3.98 ...
##  $ BALEARES          : num [1:552] 97.03 63.74 63.74 63.59 2.85 ...
##  $ VALENCIA          : num [1:552] 97.66 75.58 75.58 75.41 2.41 ...
##  $ MURCIA            : num [1:552] 96.99 69.01 69.01 68.81 4.32 ...
##  $ T.ANDALUCIA       : num [1:552] 97.14 67.4 67.4 66.89 6.55 ...
##  $ MADRID            : num [1:552] 98.26 72.62 72.62 72.27 2.72 ...
##  $ CASTILLA LA MANCHA: num [1:552] 99.09 67.71 67.71 67.26 6.87 ...
##  $ EXTREMADURA       : num [1:552] 98.1 62.45 62.45 62.26 8.42 ...
##  $ CASTILLA LEON     : num [1:552] 99.71 69.15 69.15 68.82 5.49 ...
##  $ GALICIA           : num [1:552] 99.43 53.92 53.92 53.74 9.62 ...
##  $ ASTURIAS          : num [1:552] 98.8 70.5 70.5 70.4 11.2 ...
##  $ CANTABRIA         : num [1:552] 99.1 68.1 68.1 67.2 2.9 ...
##  $ PAIS VASCO        : num [1:552] 98.46 74.89 74.89 74.51 4.74 ...
##  $ LA RIOJA          : num [1:552] 100 69.88 69.88 68.59 1.28 ...
##  $ NAVARRA           : num [1:552] 99.89 66.23 66.23 65.46 2.15 ...
##  $ CANARIAS          : num [1:552] 98.4 64.7 64.7 64.2 4.9 ...
##  $ NORESTE           : num [1:552] 98.7 74.38 74.38 73.97 3.18 ...
##  $ LEVANTE           : num [1:552] 97.6 74.25 74.25 74.07 2.77 ...
##  $ ANDALUCIA         : num [1:552] 97.14 67.4 67.4 66.89 6.55 ...
##  $ CENTRO-SUR        : num [1:552] 98.51 70.26 70.26 69.91 4.31 ...
##  $ CASTILLA Y LEON   : num [1:552] 99.71 69.15 69.15 68.82 5.49 ...
##  $ NOROESTE          : num [1:552] 99.3 58.8 58.8 58.7 10.1 ...
##  $ NORTE             : num [1:552] 99.1 72 72 71.4 3.7 ...
##  $ T.CANARIAS        : num [1:552] 98.4 64.7 64.7 64.2 4.9 ...
##
##  Nombre de la tabla de datos: df_2008
## tibble [556 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:556] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL HUEV
##  $ T.ESPAÑA          : num [1:556] 99.67 70.84 70.84 70.45 5.37 ...
##  $ CATALUÑA          : num [1:556] 99.69 76.1 76.1 75.71 3.22 ...
##  $ ARAGON            : num [1:556] 100 76.86 76.86 75.02 5.85 ...
##  $ BALEARES          : num [1:556] 99.79 63.86 63.86 63.52 7.72 ...
##  $ VALENCIA          : num [1:556] 98.86 73.92 73.92 73.73 2.77 ...
```

```
##  $ MURCIA            : num [1:556] 98.6 69.76 69.76 69 3.41 ...
##  $ T.ANDALUCIA       : num [1:556] 99.11 67.64 67.64 67.19 6.72 ...
##  $ MADRID            : num [1:556] 99.33 74.06 74.06 73.86 4.05 ...
##  $ CASTILLA LA MANCHA: num [1:556] 99.48 67.99 67.99 67.53 8.63 ...
##  $ EXTREMADURA       : num [1:556] 99.5 58.62 58.62 58.47 9.44 ...
##  $ CASTILLA LEON     : num [1:556] 100 69.78 69.78 69.19 5.32 ...
##  $ GALICIA           : num [1:556] 99.8 56.3 56.3 56.2 11.5 ...
##  $ ASTURIAS          : num [1:556] 99.3 70.7 70.7 70.5 10.3 ...
##  $ CANTABRIA         : num [1:556] 100 68.2 68.2 68 5.3 ...
##  $ PAIS VASCO        : num [1:556] 99.17 78.48 78.48 78.23 5.02 ...
##  $ LA RIOJA          : num [1:556] 100 70.14 70.14 68.72 2.53 ...
##  $ NAVARRA           : num [1:556] 100 66.8 66.8 66.6 2 ...
##  $ CANARIAS          : num [1:556] 98.86 68.9 68.9 68.4 5.18 ...
##  $ NORESTE           : num [1:556] 99.77 74.87 74.87 74.28 4.06 ...
##  $ LEVANTE           : num [1:556] 98.86 73.06 73.06 72.77 2.87 ...
##  $ ANDALUCIA         : num [1:556] 99.11 67.64 67.64 67.19 6.72 ...
##  $ CENTRO-SUR        : num [1:556] 99.58 71.06 71.06 70.81 5.58 ...
##  $ CASTILLA Y LEON   : num [1:556] 100 69.78 69.78 69.19 5.32 ...
##  $ NOROESTE          : num [1:556] 99.6 60.6 60.6 60.4 11.1 ...
##  $ NORTE             : num [1:556] 99.72 74.3 74.3 73.96 4.28 ...
##  $ T.CANARIAS        : num [1:556] 98.86 68.9 68.9 68.4 5.18 ...
##
##  Nombre de la tabla de datos: df_2009
## tibble [556 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:556] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL HUEV
##  $ T.ESPAÑA          : num [1:556] 100 72.99 72.99 72.62 5.43 ...
##  $ CATALUÑA          : num [1:556] 100 77.04 77.04 76.61 3.54 ...
##  $ ARAGON            : num [1:556] 100 76.52 76.52 74.54 6.96 ...
##  $ BALEARES          : num [1:556] 100 72.5 72.5 72.4 11.3 ...
##  $ VALENCIA          : num [1:556] 100 77.47 77.47 77.2 2.58 ...
##  $ MURCIA            : num [1:556] 99.19 71.8 71.8 71.6 3.17 ...
##  $ T.ANDALUCIA       : num [1:556] 100 71.13 71.13 70.75 6.55 ...
##  $ MADRID            : num [1:556] 99.77 75.27 75.27 75.02 3.95 ...
##  $ CASTILLA LA MANCHA: num [1:556] 100 74.97 74.97 74.57 8.44 ...
##  $ EXTREMADURA       : num [1:556] 100 65.9 65.9 65.87 6.98 ...
##  $ CASTILLA LEON     : num [1:556] 100 71.01 71.01 70.26 6.71 ...
##  $ GALICIA           : num [1:556] 100 57.2 57.2 57.2 11.6 ...
##  $ ASTURIAS          : num [1:556] 100 70.65 70.65 70.5 7.73 ...
##  $ CANTABRIA         : num [1:556] 99.91 69.83 69.83 69.23 7.58 ...
##  $ PAIS VASCO        : num [1:556] 100 77.77 77.77 77.43 4.42 ...
##  $ LA RIOJA          : num [1:556] 100 72.7 72.7 72.35 1.02 ...
##  $ NAVARRA           : num [1:556] 100 76.12 76.12 75.91 1.36 ...
##  $ CANARIAS          : num [1:556] 98.75 65.51 65.51 65.41 5.11 ...
##  $ NORESTE           : num [1:556] 100 76.48 76.48 75.87 4.86 ...
##  $ LEVANTE           : num [1:556] 99.9 76.3 76.3 76.1 2.7 ...
##  $ ANDALUCIA         : num [1:556] 100 71.13 71.13 70.75 6.55 ...
##  $ CENTRO-SUR        : num [1:556] 100 74.14 74.14 73.88 5.24 ...
##  $ CASTILLA Y LEON   : num [1:556] 100 71.01 71.01 70.26 6.71 ...
##  $ NOROESTE          : num [1:556] 100 61.2 61.2 61.2 10.4 ...
##  $ NORTE             : num [1:556] 100 75.91 75.91 75.55 4.01 ...
##  $ T.CANARIAS        : num [1:556] 98.75 65.51 65.51 65.41 5.11 ...
##
##  Nombre de la tabla de datos: df_2010
## tibble [556 x 27] (S3: tbl_df/tbl/data.frame)
```

```
##  $ ...1              : chr [1:556] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL HUEV
##  $ T.ESPAÑA          : num [1:556] 99.76 70.35 70.35 69.92 5.03 ...
##  $ CATALUÑA          : num [1:556] 99.33 73.53 73.53 72.85 3.97 ...
##  $ ARAGON            : num [1:556] 100 74 74 72.9 5.9 ...
##  $ BALEARES          : num [1:556] 99.92 71.49 71.49 70.87 8.17 ...
##  $ VALENCIA          : num [1:556] 99.26 75.04 75.04 74.69 2.48 ...
##  $ MURCIA            : num [1:556] 98.7 71.55 71.55 71.32 2.83 ...
##  $ T.ANDALUCIA       : num [1:556] 99.91 69.97 69.97 69.37 5.53 ...
##  $ MADRID            : num [1:556] 99.17 74.61 74.61 74.38 3.96 ...
##  $ CASTILLA LA MANCHA: num [1:556] 100 69.85 69.85 69.42 6.26 ...
##  $ EXTREMADURA       : num [1:556] 99.6 59.4 59.4 59.3 6.7 ...
##  $ CASTILLA LEON     : num [1:556] 100 67.15 67.15 66.58 6.31 ...
##  $ GALICIA           : num [1:556] 99.96 53.18 53.18 53.04 9.69 ...
##  $ ASTURIAS          : num [1:556] 99.88 68.75 68.75 68.65 8.89 ...
##  $ CANTABRIA         : num [1:556] 99.9 66.27 66.27 66.23 5.52 ...
##  $ PAIS VASCO        : num [1:556] 99.14 75.07 75.07 74.76 5.09 ...
##  $ LA RIOJA          : num [1:556] 100 66.56 66.56 66.24 3.15 ...
##  $ NAVARRA           : num [1:556] 99.31 68.13 68.13 67.88 2.37 ...
##  $ CANARIAS          : num [1:556] 97.15 61.64 61.64 61.43 5.21 ...
##  $ NORESTE           : num [1:556] 99.6 73.4 73.4 72.6 4.7 ...
##  $ LEVANTE           : num [1:556] 99.15 74.33 74.33 74.01 2.55 ...
##  $ ANDALUCIA         : num [1:556] 99.91 69.97 69.97 69.37 5.53 ...
##  $ CENTRO-SUR        : num [1:556] 99.6 71.9 71.9 71.6 4.7 ...
##  $ CASTILLA Y LEON   : num [1:556] 100 67.15 67.15 66.58 6.31 ...
##  $ NOROESTE          : num [1:556] 99.99 57.78 57.78 57.65 9.44 ...
##  $ NORTE             : num [1:556] 99.62 71.88 71.88 71.62 4.53 ...
##  $ T.CANARIAS        : num [1:556] 97.15 61.64 61.64 61.43 5.21 ...
##
##  Nombre de la tabla de datos: df_2011
## tibble [556 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:556] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL HUEV
##  $ T.ESPAÑA          : num [1:556] 100 70.68 70.68 70.23 4.79 ...
##  $ CATALUÑA          : num [1:556] 100 73.15 73.15 72.56 3.61 ...
##  $ ARAGON            : num [1:556] 100 68.41 68.41 66.95 4.45 ...
##  $ BALEARES          : num [1:556] 100 75.8 75.8 75.6 5.2 ...
##  $ VALENCIA          : num [1:556] 100 77.09 77.09 76.82 2.73 ...
##  $ MURCIA            : num [1:556] 100 72.19 72.19 71.18 2.74 ...
##  $ T.ANDALUCIA       : num [1:556] 100 70.88 70.88 70.35 5.67 ...
##  $ MADRID            : num [1:556] 99.8 74.2 74.2 73.9 3.7 ...
##  $ CASTILLA LA MANCHA: num [1:556] 100 68.88 68.88 68.48 5.35 ...
##  $ EXTREMADURA       : num [1:556] 100 59.52 59.52 59.25 8.35 ...
##  $ CASTILLA LEON     : num [1:556] 100 67.55 67.55 67.11 6.48 ...
##  $ GALICIA           : num [1:556] 100 52 52 51.93 8.46 ...
##  $ ASTURIAS          : num [1:556] 100 67.99 67.99 67.87 6.73 ...
##  $ CANTABRIA         : num [1:556] 100 66.16 66.16 65.94 5.36 ...
##  $ PAIS VASCO        : num [1:556] 99.85 75.66 75.66 75.16 5.79 ...
##  $ LA RIOJA          : num [1:556] 100 65.63 65.63 65.4 2.82 ...
##  $ NAVARRA           : num [1:556] 100 73.7 73.7 72.5 3.2 ...
##  $ CANARIAS          : num [1:556] 100 65.17 65.17 64.91 4.94 ...
##  $ NORESTE           : num [1:556] 100 72.8 72.8 72.1 3.9 ...
##  $ LEVANTE           : num [1:556] 100 76.09 76.09 75.67 2.73 ...
##  $ ANDALUCIA         : num [1:556] 100 70.88 70.88 70.35 5.67 ...
##  $ CENTRO-SUR        : num [1:556] 99.99 71.39 71.39 71.08 4.56 ...
##  $ CASTILLA Y LEON   : num [1:556] 100 67.55 67.55 67.11 6.48 ...
```

```
##  $ NOROESTE          : num [1:556] 100 56.63 56.63 56.54 7.95 ...
##  $ NORTE             : num [1:556] 100 73.05 73.05 72.49 5.05 ...
##  $ T.CANARIAS        : num [1:556] 100 65.17 65.17 64.91 4.94 ...
##
##  Nombre de la tabla de datos: df_2012
## tibble [556 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1              : chr [1:556] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL HUEV
##  $ T.ESPAÑA          : num [1:556] 100 71.47 71.47 70.96 4.93 ...
##  $ CATALUÑA          : num [1:556] 100 74.42 74.42 73.72 4.07 ...
##  $ ARAGON            : num [1:556] 100 69.2 69.2 67.7 4.5 ...
##  $ BALEARES          : num [1:556] 100 74.61 74.61 74.27 5.35 ...
##  $ VALENCIA          : num [1:556] 99.98 77.18 77.18 76.75 3.34 ...
##  $ MURCIA            : num [1:556] 99.8 74.52 74.52 73.81 3.38 ...
##  $ T.ANDALUCIA       : num [1:556] 100 71.61 71.61 70.91 5.59 ...
##  $ MADRID            : num [1:556] 99.67 75.19 75.19 74.92 3.61 ...
##  $ CASTILLA LA MANCHA: num [1:556] 100 71.05 71.05 70.71 5.45 ...
##  $ EXTREMADURA       : num [1:556] 100 55.22 55.22 55.02 5.45 ...
##  $ CASTILLA LEON     : num [1:556] 100 68.38 68.38 67.99 5.88 ...
##  $ GALICIA           : num [1:556] 100 52.57 52.57 52.41 9.45 ...
##  $ ASTURIAS          : num [1:556] 100 67.87 67.87 67.82 5.99 ...
##  $ CANTABRIA         : num [1:556] 100 73.81 73.81 73.83 7.18 ...
##  $ PAIS VASCO        : num [1:556] 99.73 76.86 76.86 76.26 7.02 ...
##  $ LA RIOJA          : num [1:556] 100 65.73 65.73 65.12 4.15 ...
##  $ NAVARRA           : num [1:556] 100 74.21 74.21 73.72 3.28 ...
##  $ CANARIAS          : num [1:556] 100 65.4 65.4 64.9 3.9 ...
##  $ NORESTE           : num [1:556] 100 73.72 73.72 72.95 4.27 ...
##  $ LEVANTE           : num [1:556] 99.94 76.61 76.61 76.12 3.35 ...
##  $ ANDALUCIA         : num [1:556] 100 71.61 71.61 70.91 5.59 ...
##  $ CENTRO-SUR        : num [1:556] 99.9 72 72 71.7 4.2 ...
##  $ CASTILLA Y LEON   : num [1:556] 100 68.38 68.38 67.99 5.88 ...
##  $ NOROESTE          : num [1:556] 100 57.11 57.11 56.98 8.42 ...
##  $ NORTE             : num [1:556] 100 75 75 74.52 6.17 ...
##  $ T.CANARIAS        : num [1:556] 100 65.4 65.4 64.9 3.9 ...
##
##  Nombre de la tabla de datos: df_2013
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL H
##  $ T.ESPAÑA              : num [1:580] 100 79.6 79.6 79.3 75.8 ...
##  $ CATALUÑA              : num [1:580] 100 83.1 83.1 82.8 80.2 ...
##  $ ARAGÓN                : num [1:580] 100 77.4 77.4 76.5 73.3 ...
##  $ ILLES BALEARS         : num [1:580] 100 82.2 82.2 82.2 78.8 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 83.7 83.7 83.4 82 ...
##  $ REGIÓN DE MURCIA      : num [1:580] 100 80.9 80.9 80.4 77.8 ...
##  $ ANDALUCÍA             : num [1:580] 100 80.1 80.1 79.6 75.2 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 100 82.6 82.6 82.3 80.6 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 78.4 78.4 78.3 74.9 ...
##  $ EXTREMADURA           : num [1:580] 100 67.5 67.5 67.4 62.3 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 75.7 75.7 75.5 71.3 ...
##  $ GALICIA               : num [1:580] 100 63.2 63.2 63.2 53.8 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 77.6 77.6 77.2 72 ...
##  $ CANTABRIA             : num [1:580] 100 80.1 80.1 79.6 75.3 ...
##  $ PAIS VASCO            : num [1:580] 100 84.3 84.3 84 78.8 ...
##  $ LA RIOJA              : num [1:580] 100 80.1 80.1 80.1 76.5 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 83.2 83.2 83 80.8 ...
```

```
##  $ CANARIAS              : num [1:580] 100 72.1 72.1 71.8 68.3 ...
##  $ NORESTE               : num [1:580] 100 82.2 82.2 81.8 79 ...
##  $ LEVANTE               : num [1:580] 100 83.1 83.1 82.8 81.2 ...
##  $ ANDALUCIA             : num [1:580] 100 80.1 80.1 79.6 75.2 ...
##  $ CENTRO-SUR            : num [1:580] 100 80.1 80.1 79.9 77.4 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 75.7 75.7 75.5 71.3 ...
##  $ NOROESTE              : num [1:580] 100 67.6 67.6 67.5 59.3 ...
##  $ NORTE                 : num [1:580] 100 83 83 82.7 78.3 ...
##  $ T.CANARIAS            : num [1:580] 100 72.1 72.1 71.8 68.3 ...
##
##  Nombre de la tabla de datos: df_2014
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:580] 100 78 78 77.6 73.9 ...
##  $ CATALUÑA              : num [1:580] 100 82.3 82.3 82 78.9 ...
##  $ ARAGÓN                : num [1:580] 100 78.1 78.1 77 73.2 ...
##  $ ILLES BALEARS         : num [1:580] 100 82.3 82.3 81.7 78.4 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 83.7 83.7 83.4 81.4 ...
##  $ REGIÓN DE MURCIA      : num [1:580] 100 79.7 79.7 79.5 75.5 ...
##  $ ANDALUCÍA             : num [1:580] 100 76.6 76.6 76.2 71.2 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 99.9 79.8 79.8 79.5 77.6 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 74.2 74.2 74.1 70.7 ...
##  $ EXTREMADURA           : num [1:580] 100 62.9 62.9 62.9 56.5 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 74.5 74.5 74.1 70.3 ...
##  $ GALICIA               : num [1:580] 100 64.4 64.4 64.2 55.1 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 74.8 74.8 74.2 69.8 ...
##  $ CANTABRIA             : num [1:580] 100 76 76 75.9 73.7 ...
##  $ PAIS VASCO            : num [1:580] 100 84 84 83.7 79.6 ...
##  $ LA RIOJA              : num [1:580] 100 74 74 73.9 72.1 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 78.1 78.1 77.1 74.6 ...
##  $ CANARIAS              : num [1:580] 100 73.5 73.5 73.4 70.4 ...
##  $ NORESTE               : num [1:580] 100 81.7 81.7 81.2 78 ...
##  $ LEVANTE               : num [1:580] 100 82.9 82.9 82.6 80.2 ...
##  $ ANDALUCIA             : num [1:580] 100 76.6 76.6 76.2 71.2 ...
##  $ CENTRO-SUR            : num [1:580] 100 76.8 76.8 76.6 73.9 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 74.5 74.5 74.1 70.3 ...
##  $ NOROESTE              : num [1:580] 100 67.5 67.5 67.2 59.4 ...
##  $ NORTE                 : num [1:580] 100 81 81 80.6 77.2 ...
##  $ T.CANARIAS            : num [1:580] 100 73.5 73.5 73.4 70.4 ...
##
##  Nombre de la tabla de datos: df_2015
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:580] 100 77.9 77.9 77.5 73.7 ...
##  $ CATALUÑA              : num [1:580] 100 83.7 83.7 83.5 80.6 ...
##  $ ARAGÓN                : num [1:580] 100 78.9 78.9 78.1 73.9 ...
##  $ ILLES BALEARS         : num [1:580] 100 79.4 79.4 79.1 75.7 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 82.2 82.2 82 80.1 ...
##  $ REGIÓN DE MURCIA      : num [1:580] 99.6 78.5 78.5 77.9 73.8 ...
##  $ ANDALUCÍA             : num [1:580] 100 76.9 76.9 76.5 71.3 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 99.9 81.2 81.2 81 79.2 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 76.4 76.4 75.5 72.3 ...
##  $ EXTREMADURA           : num [1:580] 100 65.3 65.3 65.2 59.8 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 72.9 72.9 72.1 68 ...
```

```
##  $ GALICIA               : num [1:580] 100 60.6 60.6 60.4 49.7 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 73 73 72.8 66.1 ...
##  $ CANTABRIA             : num [1:580] 100 74.8 74.8 74.6 71.2 ...
##  $ PAIS VASCO            : num [1:580] 100 80.6 80.6 80.2 77.2 ...
##  $ LA RIOJA              : num [1:580] 100 74.8 74.8 74.2 71.7 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 75.2 75.2 74.6 71.7 ...
##  $ CANARIAS              : num [1:580] 100 74.2 74.2 74.2 71.2 ...
##  $ NORESTE               : num [1:580] 100 82.6 82.6 82.2 79.1 ...
##  $ LEVANTE               : num [1:580] 100 81.4 81.4 81.2 78.8 ...
##  $ ANDALUCIA             : num [1:580] 100 76.9 76.9 76.5 71.3 ...
##  $ CENTRO-SUR            : num [1:580] 100 78.5 78.5 78.2 75.7 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 72.9 72.9 72.1 68 ...
##  $ NOROESTE              : num [1:580] 100 64.2 64.2 64 54.5 ...
##  $ NORTE                 : num [1:580] 100 78.3 78.3 77.9 74.8 ...
##  $ T.CANARIAS            : num [1:580] 100 74.2 74.2 74.2 71.2 ...
##
##  Nombre de la tabla de datos: df_2016
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:580] 100 77.9 77.9 77.6 73.7 ...
##  $ CATALUÑA              : num [1:580] 100 84.2 84.2 83.6 80.1 ...
##  $ ARAGÓN                : num [1:580] 100 83.7 83.7 81.5 78.8 ...
##  $ ILLES BALEARS         : num [1:580] 100 84.6 84.6 84.4 79.7 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 84.5 84.5 84.3 82.7 ...
##  $ REGIÓN DE MURCIA      : num [1:580] 100 80.2 80.2 79.4 76.7 ...
##  $ ANDALUCÍA             : num [1:580] 100 79.6 79.6 79.1 75.1 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 100 81.4 81.4 81.2 79.4 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 78.9 78.9 78.5 76.2 ...
##  $ EXTREMADURA           : num [1:580] 100 71.3 71.3 70.8 67.5 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 75 75 74.1 70.5 ...
##  $ GALICIA               : num [1:580] 100 65.1 65.1 64.9 53.8 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 78.6 78.6 77.8 73.5 ...
##  $ CANTABRIA             : num [1:580] 100 71.7 71.7 71.5 70 ...
##  $ PAIS VASCO            : num [1:580] 100 82.7 82.7 82.6 79.1 ...
##  $ LA RIOJA              : num [1:580] 100 79.2 79.2 78.9 74.6 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 75.5 75.5 74.8 71.2 ...
##  $ CANARIAS              : num [1:580] 100 77.2 77.2 77.3 74.6 ...
##  $ NORESTE               : num [1:580] 100 84.2 84.2 83.4 79.9 ...
##  $ LEVANTE               : num [1:580] 100 83.6 83.6 83.3 81.5 ...
##  $ ANDALUCIA             : num [1:580] 100 79.6 79.6 79.1 75.1 ...
##  $ CENTRO-SUR            : num [1:580] 100 79.7 79.7 79.5 77.4 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 75 75 74.1 70.5 ...
##  $ NOROESTE              : num [1:580] 100 69 69 68.6 59.8 ...
##  $ NORTE                 : num [1:580] 100 79.5 79.5 79.3 76 ...
##  $ T.CANARIAS            : num [1:580] 100 77.2 77.2 77.3 74.6 ...
##
##  Nombre de la tabla de datos: df_2017
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:580] 100 78.7 78.7 78.4 74.9 ...
##  $ CATALUÑA              : num [1:580] 100 83 83 82.6 79.6 ...
##  $ ARAGÓN                : num [1:580] 100 79.8 79.8 79 76.2 ...
##  $ ILLES BALEARS         : num [1:580] 100 82.1 82.1 81.6 77.9 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 83.6 83.6 83.3 81.8 ...
```

```
##  $ REGIÓN DE MURCIA      : num [1:580] 99.9 78.8 78.8 78.4 74.9 ...
##  $ ANDALUCÍA             : num [1:580] 100 78.1 78.1 77.5 72.9 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 100 80.9 80.9 80.7 79.5 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 76 76 75.4 72.9 ...
##  $ EXTREMADURA           : num [1:580] 100 68.3 68.3 67.8 62.8 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 74.4 74.4 74 70.6 ...
##  $ GALICIA               : num [1:580] 100 65.1 65.1 64.8 53.2 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 76.2 76.2 76 70.3 ...
##  $ CANTABRIA             : num [1:580] 100 76.1 76.1 75.8 71.9 ...
##  $ PAIS VASCO            : num [1:580] 100 81.3 81.3 80.9 78.3 ...
##  $ LA RIOJA              : num [1:580] 100 74.7 74.7 74.5 71.5 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 77.4 77.4 77.3 74.4 ...
##  $ CANARIAS              : num [1:580] 100 75.7 75.7 75.7 72.1 ...
##  $ NORESTE               : num [1:580] 100 82.5 82.5 82 78.9 ...
##  $ LEVANTE               : num [1:580] 100 82.6 82.6 82.3 80.4 ...
##  $ ANDALUCIA             : num [1:580] 100 78.1 78.1 77.5 72.9 ...
##  $ CENTRO-SUR            : num [1:580] 100 78.6 78.6 78.2 76.3 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 74.4 74.4 74 70.6 ...
##  $ NOROESTE              : num [1:580] 100 68.3 68.3 68 58.2 ...
##  $ NORTE                 : num [1:580] 100 79.2 79.2 78.9 76 ...
##  $ T.CANARIAS            : num [1:580] 100 75.7 75.7 75.7 72.1 ...
##
##  Nombre de la tabla de datos: df_2018
## tibble [580 x 27] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:580] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:580] 100 79.1 79.1 78.8 75.6 ...
##  $ CATALUÑA              : num [1:580] 100 85.3 85.3 85.1 82 ...
##  $ ARAGÓN                : num [1:580] 100 79.9 79.9 79.3 75.5 ...
##  $ ILLES BALEARS         : num [1:580] 100 82.4 82.4 82.4 79.2 ...
##  $ COMUNITAT VALENCIANA  : num [1:580] 100 82.4 82.4 82.1 80.8 ...
##  $ REGIÓN DE MURCIA      : num [1:580] 99.8 80.6 80.6 80.4 77.9 ...
##  $ ANDALUCÍA             : num [1:580] 100 79.3 79.3 78.8 74.4 ...
##  $ COMUNIDAD DE MADRID   : num [1:580] 100 80.2 80.2 80 79.1 ...
##  $ CASTILLA - LA MANCHA  : num [1:580] 100 75.9 75.9 75.7 73.3 ...
##  $ EXTREMADURA           : num [1:580] 100 68.5 68.5 68.5 62.6 ...
##  $ CASTILLA Y LEÓN       : num [1:580] 100 73.9 73.9 73.5 70.7 ...
##  $ GALICIA               : num [1:580] 100 64.8 64.8 64.4 54 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:580] 100 77.4 77.4 76.9 72.5 ...
##  $ CANTABRIA             : num [1:580] 100 77.6 77.6 77.6 72.7 ...
##  $ PAIS VASCO            : num [1:580] 100 81.6 81.6 81.3 79.5 ...
##  $ LA RIOJA              : num [1:580] 100 73 73 72.8 69 ...
##  $ C. FORAL DE NAVARRA   : num [1:580] 100 73.9 73.9 73.9 71.7 ...
##  $ CANARIAS              : num [1:580] 100 75.3 75.3 75.2 72.6 ...
##  $ NORESTE               : num [1:580] 100 84.3 84.3 84 80.8 ...
##  $ LEVANTE               : num [1:580] 100 82 82 81.7 80.2 ...
##  $ ANDALUCIA             : num [1:580] 100 79.3 79.3 78.8 74.4 ...
##  $ CENTRO-SUR            : num [1:580] 100 78.1 78.1 77.9 76.2 ...
##  $ CASTILLA Y LEON       : num [1:580] 100 73.9 73.9 73.5 70.7 ...
##  $ NOROESTE              : num [1:580] 100 68.5 68.5 68.1 59.5 ...
##  $ NORTE                 : num [1:580] 100 78.9 78.9 78.6 76.2 ...
##  $ T.CANARIAS            : num [1:580] 100 75.3 75.3 75.2 72.6 ...
##
##  Nombre de la tabla de datos: df_2019
## tibble [686 x 19] (S3: tbl_df/tbl/data.frame)
```

```
##  $ ...1                  : chr [1:686] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:686] 100 78 78 77.7 74.9 ...
##  $ CATALUÑA              : num [1:686] 100 82.2 82.2 81.9 80 ...
##  $ ARAGÓN                : num [1:686] 100 77.3 77.3 76.9 73.7 ...
##  $ ILLES BALEARS         : num [1:686] 100 83 83 82.3 80.1 ...
##  $ COMUNITAT VALENCIANA  : num [1:686] 100 82 82 81.8 80.4 ...
##  $ REGIÓN DE MURCIA      : num [1:686] 100 79.8 79.8 79.4 78.2 ...
##  $ ANDALUCÍA             : num [1:686] 100 78.8 78.8 78.3 74.2 ...
##  $ COMUNIDAD DE MADRID   : num [1:686] 100 79.6 79.6 79.4 78.2 ...
##  $ CASTILLA - LA MANCHA  : num [1:686] 100 74 74 73.6 71.5 ...
##  $ EXTREMADURA           : num [1:686] 100 63.5 63.5 63.3 58.2 ...
##  $ CASTILLA Y LEÓN       : num [1:686] 100 74.5 74.5 74.1 70.1 ...
##  $ GALICIA               : num [1:686] 100 64 64 63.8 54.2 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:686] 100 71.1 71.1 70.8 66.5 ...
##  $ CANTABRIA             : num [1:686] 100 76.9 76.9 77 74.6 ...
##  $ PAIS VASCO            : num [1:686] 100 80 80 79.7 78 ...
##  $ LA RIOJA              : num [1:686] 100 76.8 76.8 76.8 74.8 ...
##  $ C. FORAL DE NAVARRA   : num [1:686] 100 77.2 77.2 76.8 74.3 ...
##  $ CANARIAS              : num [1:686] 100 76.6 76.6 76.6 74.2 ...
##
##  Nombre de la tabla de datos: df_2020
## tibble [681 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:681] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:681] 2.4891 2.3492 0.1474 0.1491 0.0739 ...
##  $ CATALUÑA              : num [1:681] 2.6595 2.3987 0.1502 0.1522 0.0742 ...
##  $ ARAGÓN                : num [1:681] 2.5612 2.2745 0.14 0.1436 0.0653 ...
##  $ ILLES BALEARS         : num [1:681] 2.3769 2.3539 0.1467 0.1491 0.0727 ...
##  $ COMUNITAT VALENCIANA  : num [1:681] 2.37 2.233 0.14 0.142 0.069 ...
##  $ REGIÓN DE MURCIA      : num [1:681] 2.324 2.1678 0.1362 0.1375 0.0771 ...
##  $ ANDALUCÍA             : num [1:681] 2.3158 2.3405 0.1462 0.1482 0.0764 ...
##  $ COMUNIDAD DE MADRID   : num [1:681] 2.7041 2.2591 0.1417 0.1434 0.0724 ...
##  $ CASTILLA - LA MANCHA  : num [1:681] 2.2663 2.0745 0.1305 0.1317 0.0732 ...
##  $ EXTREMADURA           : num [1:681] 2.2073 2.2317 0.1406 0.1417 0.0817 ...
##  $ CASTILLA Y LEÓN       : num [1:681] 2.484 2.2326 0.1405 0.1419 0.0723 ...
##  $ GALICIA               : num [1:681] 2.5521 2.8536 0.1806 0.182 0.0744 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:681] 2.6251 2.4086 0.1532 0.1538 0.0701 ...
##  $ CANTABRIA             : num [1:681] 2.5344 2.2853 0.1454 0.1459 0.0689 ...
##  $ PAIS VASCO            : num [1:681] 2.8942 2.3775 0.1479 0.1503 0.0792 ...
##  $ LA RIOJA              : num [1:681] 2.627 2.336 0.147 0.149 0.068 ...
##  $ C. FORAL DE NAVARRA   : num [1:681] 2.7548 2.2636 0.1436 0.1443 0.0735 ...
##  $ CANARIAS              : num [1:681] 2.1016 2.6462 0.1674 0.1686 0.0828 ...
##
##  Nombre de la tabla de datos: df_2021
## tibble [681 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:681] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:681] 2.5195 2.4379 0.1527 0.1546 0.0806 ...
##  $ CATALUÑA              : num [1:681] 2.7051 2.5624 0.1601 0.1626 0.0749 ...
##  $ ARAGÓN                : num [1:681] 2.6307 2.3753 0.1454 0.1493 0.0733 ...
##  $ ILLES BALEARS         : num [1:681] 2.3696 2.4373 0.1512 0.1535 0.0911 ...
##  $ COMUNITAT VALENCIANA  : num [1:681] 2.3986 2.3139 0.145 0.1467 0.0807 ...
##  $ REGIÓN DE MURCIA      : num [1:681] 2.3956 2.3226 0.1457 0.1472 0.0825 ...
##  $ ANDALUCÍA             : num [1:681] 2.3368 2.4072 0.1502 0.1522 0.0833 ...
##  $ COMUNIDAD DE MADRID   : num [1:681] 2.6981 2.3275 0.1465 0.1479 0.0782 ...
##  $ CASTILLA - LA MANCHA  : num [1:681] 2.2751 2.1722 0.1366 0.1379 0.0772 ...
```

```
##  $ EXTREMADURA           : num [1:681] 2.2414 2.246 0.1413 0.1424 0.0901 ...
##  $ CASTILLA Y LEÓN       : num [1:681] 2.5389 2.2931 0.1427 0.1449 0.0779 ...
##  $ GALICIA               : num [1:681] 2.5643 2.922 0.1843 0.1859 0.0934 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:681] 2.6403 2.5087 0.1599 0.1602 0.0914 ...
##  $ CANTABRIA             : num [1:681] 2.5872 2.3405 0.1486 0.1491 0.0972 ...
##  $ PAIS VASCO            : num [1:681] 2.9816 2.5421 0.1573 0.1603 0.0834 ...
##  $ LA RIOJA              : num [1:681] 2.7111 2.3828 0.149 0.151 0.0765 ...
##  $ C. FORAL DE NAVARRA   : num [1:681] 2.7899 2.3745 0.1498 0.151 0.0837 ...
##  $ CANARIAS              : num [1:681] 2.1613 2.6195 0.1665 0.1672 0.0834 ...
##
##  Nombre de la tabla de datos: df_2022
## tibble [689 x 19] (S3: tbl_df/tbl/data.frame)
##  $ ...1                  : chr [1:689] ".TOTAL ALIMENTACION" "T.HUEVOS KGS" "T.HUEVOS UNDS." "TOTAL
##  $ T.ESPAÑA              : num [1:689] 2.738 2.9635 0.1857 0.1881 0.0916 ...
##  $ CATALUÑA              : num [1:689] 2.9487 3.1067 0.1934 0.1972 0.0815 ...
##  $ ARAGÓN                : num [1:689] 2.8231 2.7769 0.1713 0.1752 0.0847 ...
##  $ ILLES BALEARS         : num [1:689] 2.5714 3.0011 0.186 0.1894 0.0981 ...
##  $ COMUNITAT VALENCIANA  : num [1:689] 2.6088 2.9069 0.1826 0.1846 0.0927 ...
##  $ REGIÓN DE MURCIA      : num [1:689] 2.5912 2.9437 0.1843 0.1867 0.0934 ...
##  $ ANDALUCÍA             : num [1:689] 2.546 2.92 0.183 0.185 0.093 ...
##  $ COMUNIDAD DE MADRID   : num [1:689] 2.956 2.8599 0.1803 0.1819 0.0896 ...
##  $ CASTILLA - LA MANCHA  : num [1:689] 2.4755 2.7111 0.1691 0.1716 0.0887 ...
##  $ EXTREMADURA           : num [1:689] 2.386 2.799 0.176 0.178 0.088 ...
##  $ CASTILLA Y LEÓN       : num [1:689] 2.6939 2.8129 0.1764 0.1785 0.0925 ...
##  $ GALICIA               : num [1:689] 2.792 3.31 0.208 0.21 0.131 ...
##  $ PRINCIPADO DE ASTURIAS: num [1:689] 2.882 3.1013 0.1972 0.1981 0.0873 ...
##  $ CANTABRIA             : num [1:689] 2.7516 2.9207 0.1859 0.1866 0.0844 ...
##  $ PAIS VASCO            : num [1:689] 3.2119 3.0657 0.1904 0.1939 0.0936 ...
##  $ LA RIOJA              : num [1:689] 2.896 2.822 0.177 0.179 0.086 ...
##  $ C. FORAL DE NAVARRA   : num [1:689] 3.0475 2.8854 0.1827 0.1839 0.0881 ...
##  $ CANARIAS              : num [1:689] 2.3513 3.1022 0.1967 0.1979 0.0921 ...
```

Revisando los datos, he localizado los siguientes errores:

- Los marcos de datos df_2000, df_2001, df_2002, df_2003, df_2019, df_2020, df_2021 y df_2022 tienen 19 variables, mientras que los restantes tiene 27.
- El nombre de las variables difieren de un marco de datos de otros.
- Toda las variables son de tipo número, a excepción de "...1" que es de tipo cadena de texto, ya que contiene las categorías de alimentos.
- El numero de registro de cada marco de datos varía, con lo que la categorías de alimentos también.

A continuación, procedo a eliminar las variables de más que he podido localizar

```
for (i in seq(from = 1, to = 23, by = 1)) {
  if (i  >= 5 && i <= 19)
    lista_df[[i]] <- lista_df[[i]][, -c(2, 8, 12, 20, 21,23, 25, 26, 27)]
  else
        lista_df[[i]] <- lista_df[[i]][, -c(2)]
}
```

Ahora, unifico el nombre de las variables de los marcos de datos

```
for (i in seq(from = 1, to = 23, by = 1)) {
  if (i >= 5 && i <=19)
    colnames(lista_df[[i]]) <- c("Categorias", "Cataluña", "Aragon", "Baleares",
```

```
                                "Valencia", "Murcia", "Madrid", "Castilla La Mancha",
                                "Extremadura", "Galicia", "Asturias", "Cantabria",
                                "Pais Vasco", "La Rioja", "Navarra", "Canarias",
                                "Andalucia", "Castilla Y Leon")
  else
    colnames(lista_df[[i]]) <- c("Categorias", "Cataluña", "Aragon", "Baleares",
                                 "Valencia", "Murcia", "Andalucia", "Madrid",
                                 "Castilla La Mancha", "Extremadura", "Castilla Y Leon",
                                 "Galicia", "Asturias", "Cantabria", "Pais Vasco",
                                 "La Rioja", "Navarra", "Canarias")
}
```

Añado la variable "Año" en cada marco de datos y le asigno el valor del año que le corresponde

```
for (i in seq(from = 1, to = 23, by = 1)) {
  lista_df[[i]] <- cbind(lista_df[[i]], Año = as.numeric(x = lista_archivo[[i]]))
}
```

Ordeno cada marco de datos por el nombre de las variables

```
for (i in seq(from = 1, to = 23, by = 1)) {
  lista_df[[i]] <- lista_df[[i]][, order(colnames(lista_df[[i]]))]
}
```

Junto todos los marcos de datos en uno sólo denominado df_final

```
df_total <- data.frame()

for (i in seq(from = 1, to = 23, by = 1)) {
  df_total <- rbind(df_total, lista_df[[i]])
}
```

Realizo un filtro, para sólo quedarme con determinadas categorias dea alimentos

```
filtro <- c("T.HUEVOS KGS", "MIEL", "TOTAL CARNE", "TOTAL PESCA",
            "TOTAL LECHE LIQUIDA", "TOTAL OTRAS LECHES", "DERIVADOS LACTEOS",
            "PAN", "BOLL.PAST.GALLET.CERE", "PRODUCTOS NAVIDEÑOS",
            "CHOCOLATES/CACAOS/SUC", "ARROZ", "TOTAL PASTAS", "AZUCAR",
            "EDULCORANTES", "LEGUMBRES", "TOTAL ACEITE", "MARGARINA",
            "ACEITUNAS", "BEBIDAS DERIVADAS VI", "TOTAL VINOS", "CERVEZAS",
            "SIDRAS", "T.BEBIDAS ESPIRITUOSA", "VINAGRE", "TOTAL ZOMO Y NECTAR",
            "TOTAL PATATAS", "T.HORTALIZAS FRESCAS", "T.FRUTAS FRESCAS",
            "FRUTOS SECOS", "T.FRUTA&HORTA.TRANSF", "PLATOS PREPARADOS",
            "CAFES E INFUSIONES", "CALDOS", "SALSAS", "AGUA DE BEBIDA ENVAS.",
            "GASEOSAS Y BEBID.REFR", "BASES PIZZAS&MASAS HO",
            "HARINAS Y SEMOLAS", "ENCURTIDOS", "ESPECIAS Y CONDIMENTO", "SAL",
            "OTROS PROD.EN PESO", "OTROS PROD.EN VOLUMEN", "ALGAS")

df_filtrado <- subset(df_total, Categorias %in% filtro)
```

Detección y tratamiento de los datos ausentes

A continuación, examino la estructura interna de df_final

```
str(df_filtrado)
```

```
## 'data.frame':    910 obs. of  19 variables:
##  $ Andalucia         : num  6.51 96.22 90.78 86.68 12.37 ...
```

```
##  $ Año               : num  2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 ...
##  $ Aragon            : num  5.66 97.05 90.84 88.09 7.45 ...
##  $ Asturias          : num  7.47 97.16 94.28 90.76 7.2 ...
##  $ Baleares          : num  7.99 97.37 87.61 82.66 9.16 ...
##  $ Canarias          : num  6.37 95.9 86.02 72.69 35.08 ...
##  $ Cantabria         : num  10.6 98 94.3 89 15.8 ...
##  $ Castilla La Mancha: num  6.24 95.87 91.78 84.78 8.74 ...
##  $ Castilla Y Leon   : num  7.48 94.66 93.13 84.57 8.43 ...
##  $ Cataluña          : num  8.32 97.05 91.72 85.56 7.79 ...
##  $ Categorias        : chr  "MIEL" "TOTAL CARNE" "TOTAL PESCA" "TOTAL LECHE LIQUIDA" ...
##  $ Extremadura       : num  6.35 94.84 93.16 87.66 5.41 ...
##  $ Galicia           : num  5.71 95.2 90.36 88.69 6.53 ...
##  $ La Rioja          : num  9.08 94.96 95.07 81.17 9.74 ...
##  $ Madrid            : num  8.88 96.06 90.29 87.77 7.26 ...
##  $ Murcia            : num  6.89 95.81 90.27 87.03 15.9 ...
##  $ Navarra           : num  9.17 97.16 92.26 86.93 6.96 ...
##  $ Pais Vasco        : num  8.77 97.9 91.6 84.43 7.84 ...
##  $ Valencia          : num  6.54 96.82 90.81 86.51 13.55 ...
```

Y ahora obtengo un resumen de cada variable

```
summary(df_filtrado)
```

```
##    Andalucia           Año           Aragon          Asturias
##  Min.   :  0.00   Min.   :2000   Min.   :  0.00   Min.   :  0.00
##  1st Qu.: 13.39   1st Qu.:2006   1st Qu.: 14.09   1st Qu.: 12.48
##  Median : 45.37   Median :2012   Median : 41.95   Median : 42.37
##  Mean   : 45.47   Mean   :2012   Mean   : 44.32   Mean   : 44.56
##  3rd Qu.: 75.78   3rd Qu.:2017   3rd Qu.: 71.06   3rd Qu.: 67.94
##  Max.   :184.77   Max.   :2022   Max.   :195.45   Max.   :217.86
##                                                   NA's   :1
##     Baleares         Canarias        Cantabria      Castilla La Mancha
##  Min.   :  0.00   Min.   :  0.00   Min.   :  0.00   Min.   :  0.00
##  1st Qu.: 13.85   1st Qu.: 14.41   1st Qu.: 13.86   1st Qu.: 12.04
##  Median : 44.94   Median : 44.15   Median : 40.90   Median : 41.70
##  Mean   : 45.80   Mean   : 46.00   Mean   : 44.47   Mean   : 43.93
##  3rd Qu.: 72.53   3rd Qu.: 72.26   3rd Qu.: 69.01   3rd Qu.: 73.65
##  Max.   :224.52   Max.   :207.23   Max.   :299.87   Max.   :181.14
##                   NA's   :1        NA's   :1        NA's   :1
##  Castilla Y Leon     Cataluña       Categorias         Extremadura
##  Min.   :  0.00   Min.   :  0.00   Length:910         Min.   :  0.00
##  1st Qu.: 12.55   1st Qu.: 13.39   Class :character   1st Qu.: 11.08
##  Median : 38.74   Median : 45.48   Mode  :character   Median : 41.17
##  Mean   : 42.93   Mean   : 45.79                      Mean   : 42.69
##  3rd Qu.: 65.97   3rd Qu.: 72.69                      3rd Qu.: 67.14
##  Max.   :193.39   Max.   :209.52                      Max.   :170.36
##                                                       NA's   :1
##     Galicia          La Rioja          Madrid           Murcia
##  Min.   :  0.00   Min.   :  0.00   Min.   :  0.00   Min.   :  0.00
##  1st Qu.: 11.02   1st Qu.: 12.60   1st Qu.: 13.01   1st Qu.: 15.56
##  Median : 38.37   Median : 38.15   Median : 39.65   Median : 45.31
##  Mean   : 43.40   Mean   : 42.16   Mean   : 43.60   Mean   : 45.56
##  3rd Qu.: 68.59   3rd Qu.: 68.00   3rd Qu.: 73.31   3rd Qu.: 71.53
##  Max.   :227.59   Max.   :170.14   Max.   :243.63   Max.   :225.26
##                   NA's   :2
```

```
##     Navarra        Pais Vasco        Valencia
##  Min.   : 0.00   Min.   :  0.00   Min.   :  0.00
##  1st Qu.:12.15   1st Qu.: 13.78   1st Qu.: 14.24
##  Median :35.58   Median : 37.58   Median : 45.60
##  Mean   :41.31   Mean   : 43.04   Mean   : 45.43
##  3rd Qu.:65.35   3rd Qu.: 67.21   3rd Qu.: 72.92
##  Max.   :99.83   Max.   :317.73   Max.   :239.28
##  NA's   :2
```

He comprobado que df_filtrado tiene 910 registros y 19 variables.

Todas las variables son numéricas a excepción de "Categorias" que es una cadena de texto.

Además, Asturias, Canarias, Cantabria, Castilla La Mancha, Extremadura, La Rioja y Navarra tienen datos ausentes.

Localizo los registros donde existen valores ausentes

```
df_filtrado %>%
  rowwise() %>%
  filter(any(is.na(c_across(where(is.numeric)))))
```

```
## # A tibble: 3 x 19
## # Rowwise:
##   Andalucia   Año Aragon Asturias Baleares Canarias Cantabria
##       <dbl> <dbl>  <dbl>    <dbl>    <dbl>    <dbl>     <dbl>
## 1      138.  2020   139.      NA      181.      NA       300.
## 2      164.  2021   192.     218.     225.     178.      170.
## 3      185.  2022   195.     183.     177.     207.       NA
## # i 12 more variables: `Castilla La Mancha` <dbl>, `Castilla Y Leon` <dbl>,
## #   Cataluña <dbl>, Categorias <chr>, Extremadura <dbl>, Galicia <dbl>,
## #   `La Rioja` <dbl>, Madrid <dbl>, Murcia <dbl>, Navarra <dbl>,
## #   `Pais Vasco` <dbl>, Valencia <dbl>
```

Compruebo que faltan datos en los años 2020, 2021 y 2022. Pero sólo en alguanas Comunidades Autónomas

```
df_filtrado %>%
  select("Categorias", "Año") %>%
  filter(Categorias == "ALGAS")
```

```
##   Categorias  Año
## 1      ALGAS 2019
## 2      ALGAS 2020
## 3      ALGAS 2021
## 4      ALGAS 2022
```

Aquí compruebo que sólo en los años 2019, 2020, 2021 y 2022 se incorporaron la Categoría ALGAS en la contabilidad. Los demás años no. Teniendo en cuenta que faltan todos los demás años, procedo a quitar los registros referentes a ALGAS.

```
df_filtrado <- df_filtrado %>%
  filter(Categorias != "ALGAS")
```

Analizo gráficamente el marco de datos resultantes.

A continuación transformo

```
df_filtrado %>%
  pivot_longer(
```

```
    cols = -c("Categorias", "Año"),
    names_to = "Territorios",
    values_to = "Consumo"
  )
```

```
## # A tibble: 15,402 x 4
##      Año Categorias Territorios        Consumo
##    <dbl> <chr>      <chr>                <dbl>
##  1  2000 MIEL       Andalucia             6.51
##  2  2000 MIEL       Aragon                5.66
##  3  2000 MIEL       Asturias              7.47
##  4  2000 MIEL       Baleares              7.99
##  5  2000 MIEL       Canarias              6.37
##  6  2000 MIEL       Cantabria            10.6
##  7  2000 MIEL       Castilla La Mancha    6.24
##  8  2000 MIEL       Castilla Y Leon       7.48
##  9  2000 MIEL       Cataluña              8.32
## 10  2000 MIEL       Extremadura           6.35
## # i 15,392 more rows
```