

Análisis_Datos_Jordan

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Análisis exploratorio de datos “Sargo”

Table 1: Datos iniciales de la tabla de datos

| Year | month | Temprada | Date | No_of_eggs | Egg_viability | Water_Temp | Day_length |
|------|-----------|----------|------------|------------|---------------|------------|------------|
| 2016 | Octubre | 1 | 2021-10-29 | 0.074173 | 80.08 | 19.63333 | 13.23333 |
| 2016 | Octubre | 1 | 2021-10-31 | 0.058175 | 68.76 | 18.23333 | 13.35000 |
| 2016 | Diciembre | 1 | 2021-12-12 | 0.075685 | 85.37 | 16.10000 | 14.13333 |
| 2016 | Diciembre | 1 | 2021-12-17 | 0.309222 | 99.00 | 18.73333 | 14.08333 |
| 2016 | Diciembre | 1 | 2021-12-18 | 0.124297 | 86.64 | 17.85000 | 14.23333 |
| 2016 | Diciembre | 1 | 2021-12-20 | 0.729363 | 95.50 | 17.86667 | 14.28333 |

Table 2: Datos finales de la tabla de datos

| Year | month | Temprada | Date | No_of_eggs | Egg_viability | Water_Temp | Day_length |
|------|-----------|----------|------------|------------|---------------|------------|------------|
| 2020 | Diciembre | 5 | 2021-12-11 | 0.419130 | 90.4 | 16.93333 | 13.18333 |
| 2020 | Diciembre | 5 | 2021-12-13 | 0.219478 | 74.4 | 16.86667 | 13.20000 |
| 2020 | Diciembre | 5 | 2021-12-19 | 0.327930 | 91.2 | 18.40000 | 13.20000 |
| 2020 | Diciembre | 5 | 2021-12-20 | 0.474782 | 91.5 | 18.80000 | 13.21667 |
| 2020 | Diciembre | 5 | 2021-12-21 | 0.300069 | 86.9 | 18.80000 | 13.20000 |
| 2020 | Diciembre | 5 | 2021-12-25 | 0.537391 | 77.6 | 17.73333 | 13.20000 |

Table 3: Cantidad de desoves por temporada

| Temporada | Número de desoves |
|-----------|-------------------|
| 1 | 93 |
| 2 | 54 |
| 3 | 56 |
| 4 | 57 |
| 5 | 25 |

Modificando variables

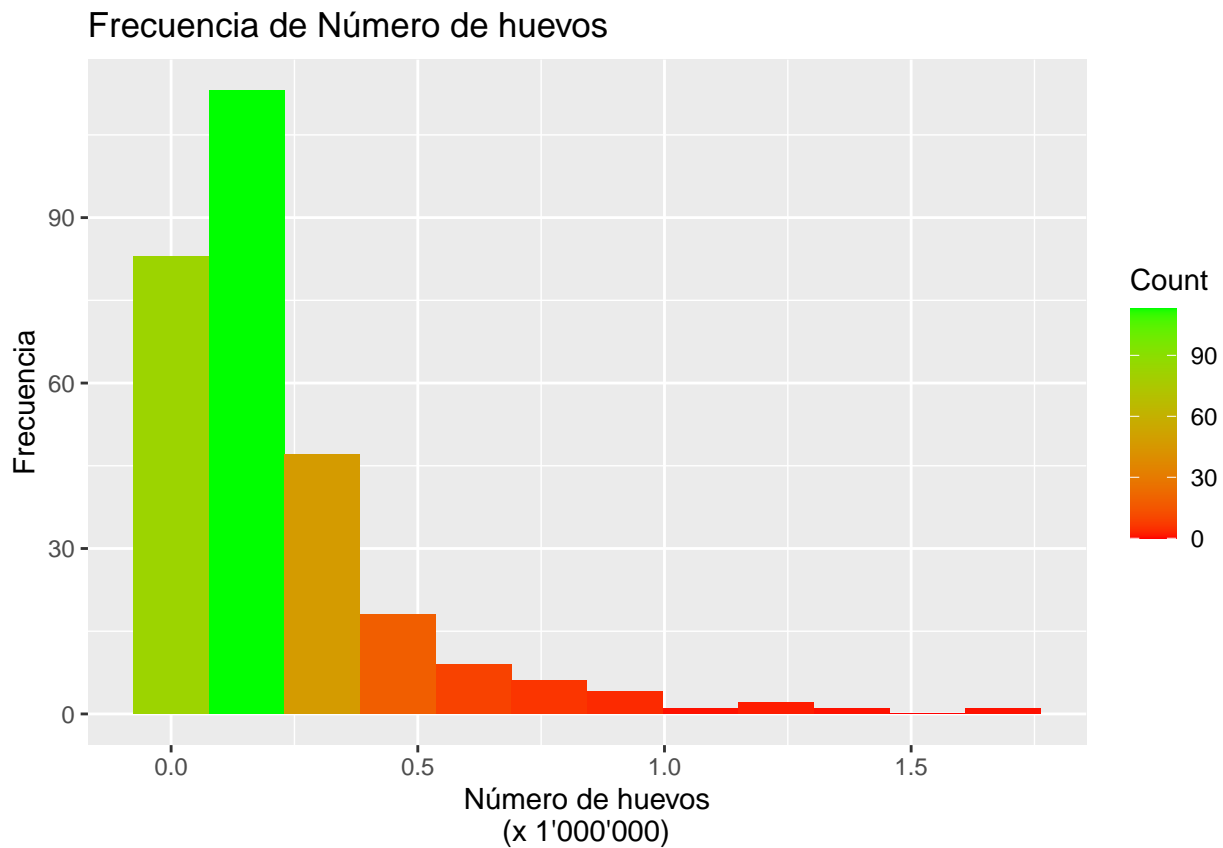
```
## tibble [285 x 8] (S3: tbl_df/tbl/data.frame)
## $ Year      : chr [1:285] "2016" "2016" "2016" "2016" ...
## $ month     : Factor w/ 12 levels "Enero","Febrero",...: 10 10 12 12 12 12 12 12 12 12 ...
## $ Temporada : chr [1:285] "1" "1" "1" "1" ...
```

```
## $ Date      : POSIXct[1:285], format: "2021-10-29" "2021-10-31" ...
## $ No_of_eggs : num [1:285] 0.0742 0.0582 0.0757 0.3092 0.1243 ...
## $ Egg_viability: num [1:285] 80.1 68.8 85.4 99 86.6 ...
## $ Water_Temp  : num [1:285] 19.6 18.2 16.1 18.7 17.9 ...
## $ Day_length  : num [1:285] 13.2 13.4 14.1 14.1 14.2 ...
## - attr(*, "na.action")= 'omit' Named int [1:1907] 1 2 3 4 5 6 7 8 9 10 ...
## ..- attr(*, "names")= chr [1:1907] "1" "2" "3" "4" ...
```

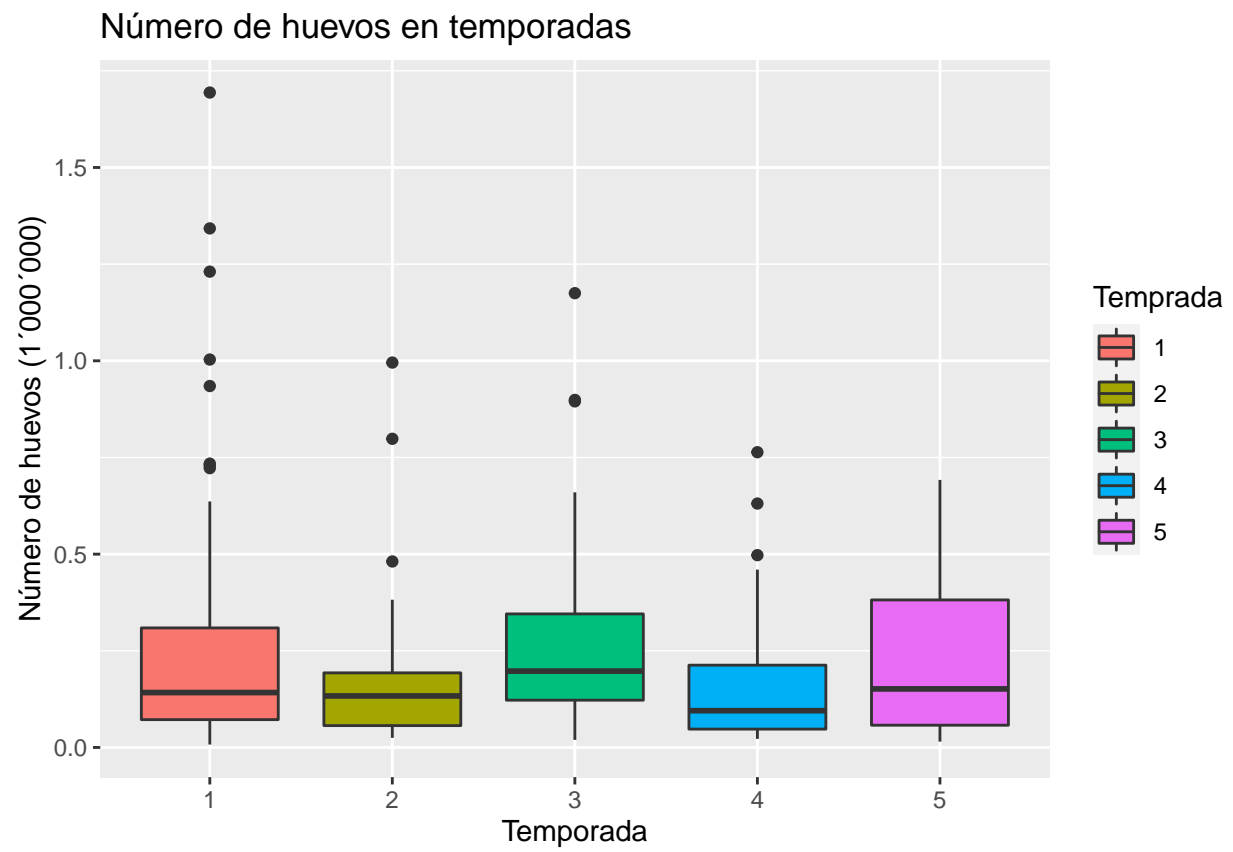
Gráficos exploratorios

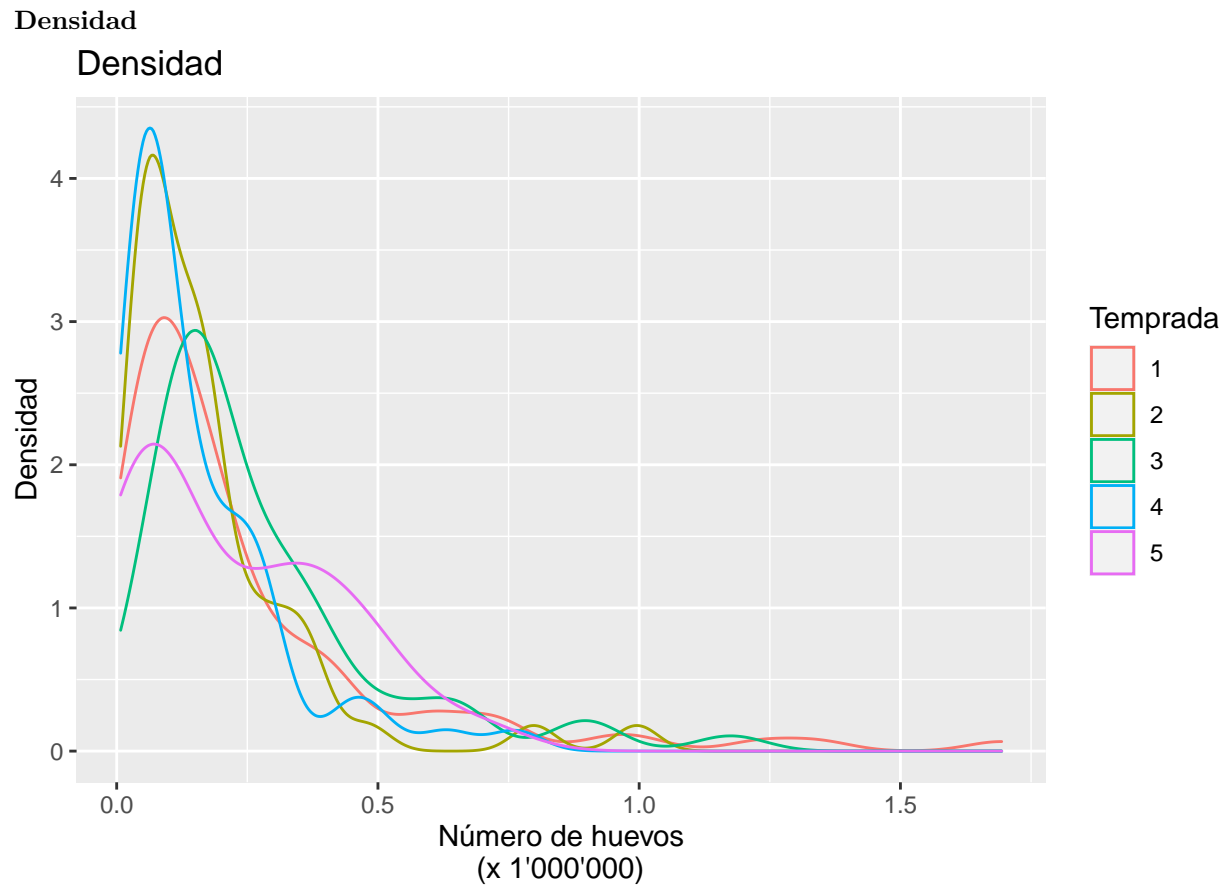
Desoves por temporada

Histograma



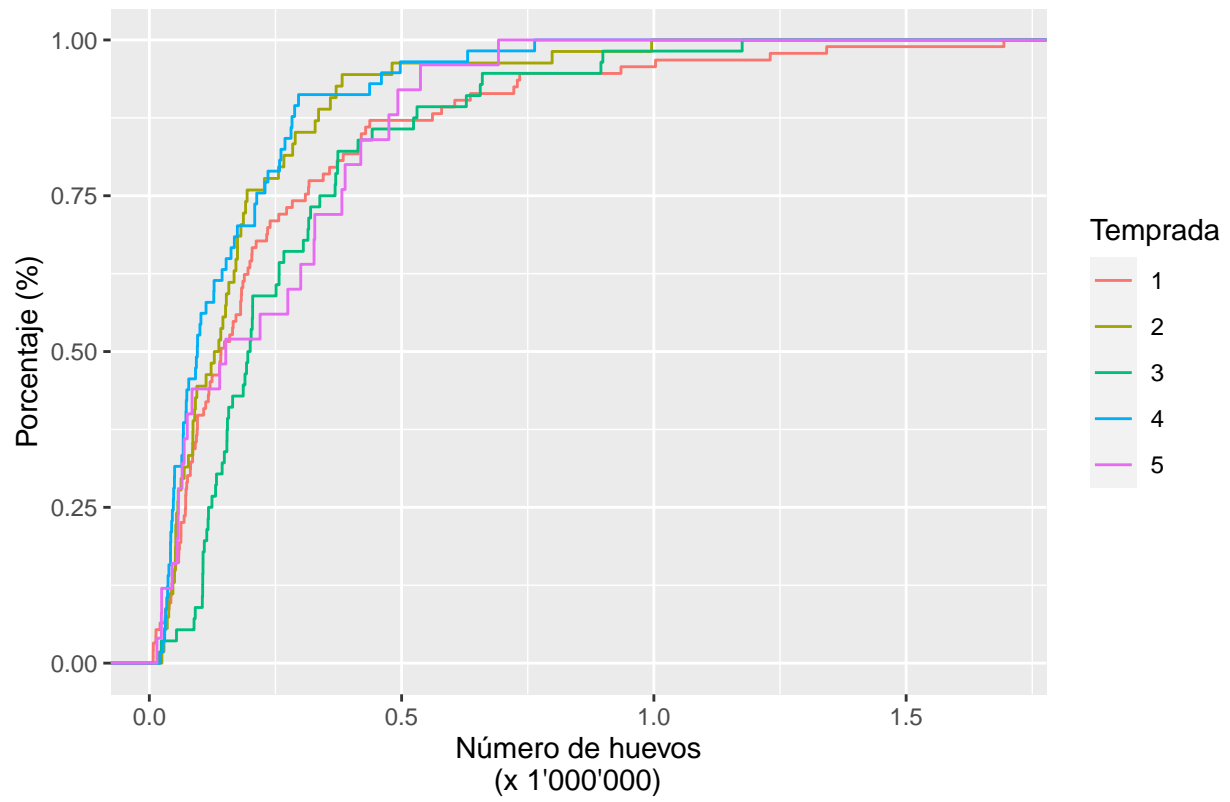
Boxplot





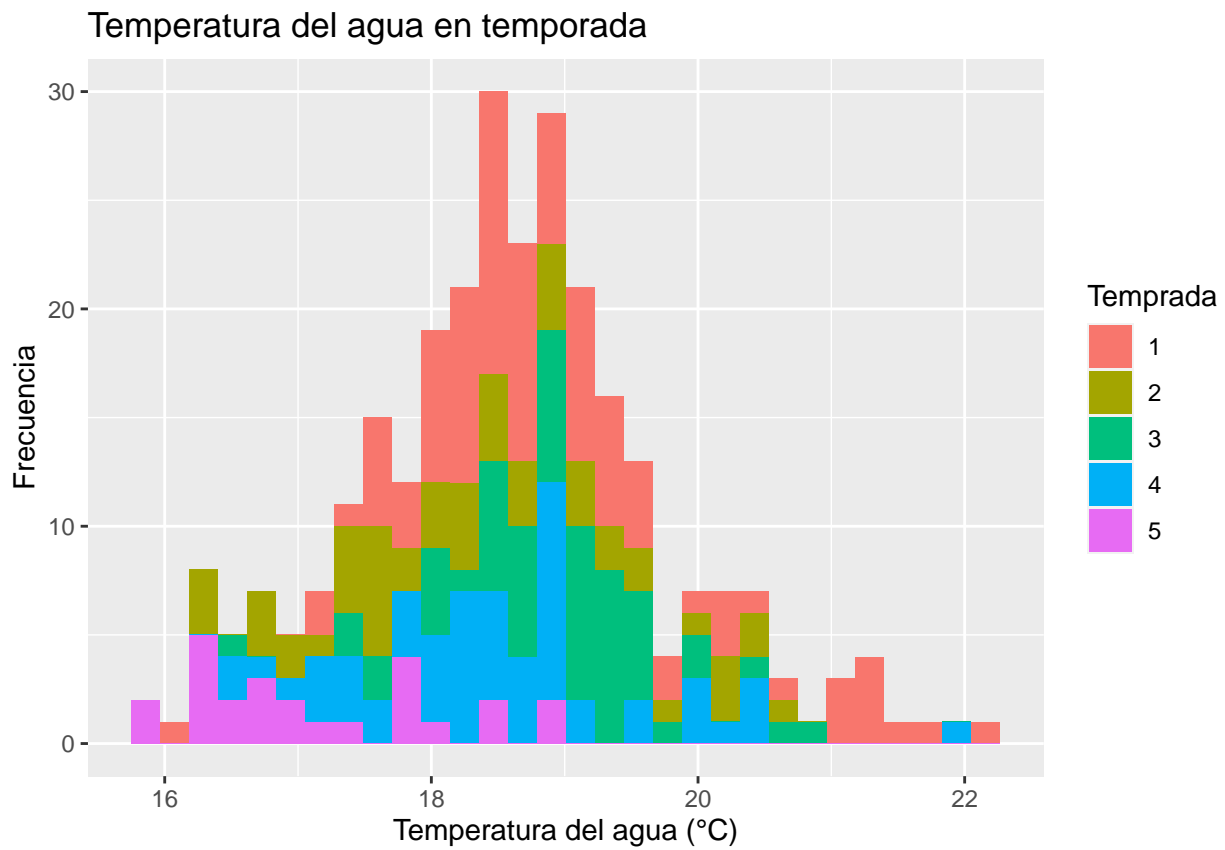
Densidad acumulada

Distribución empírica acumulada

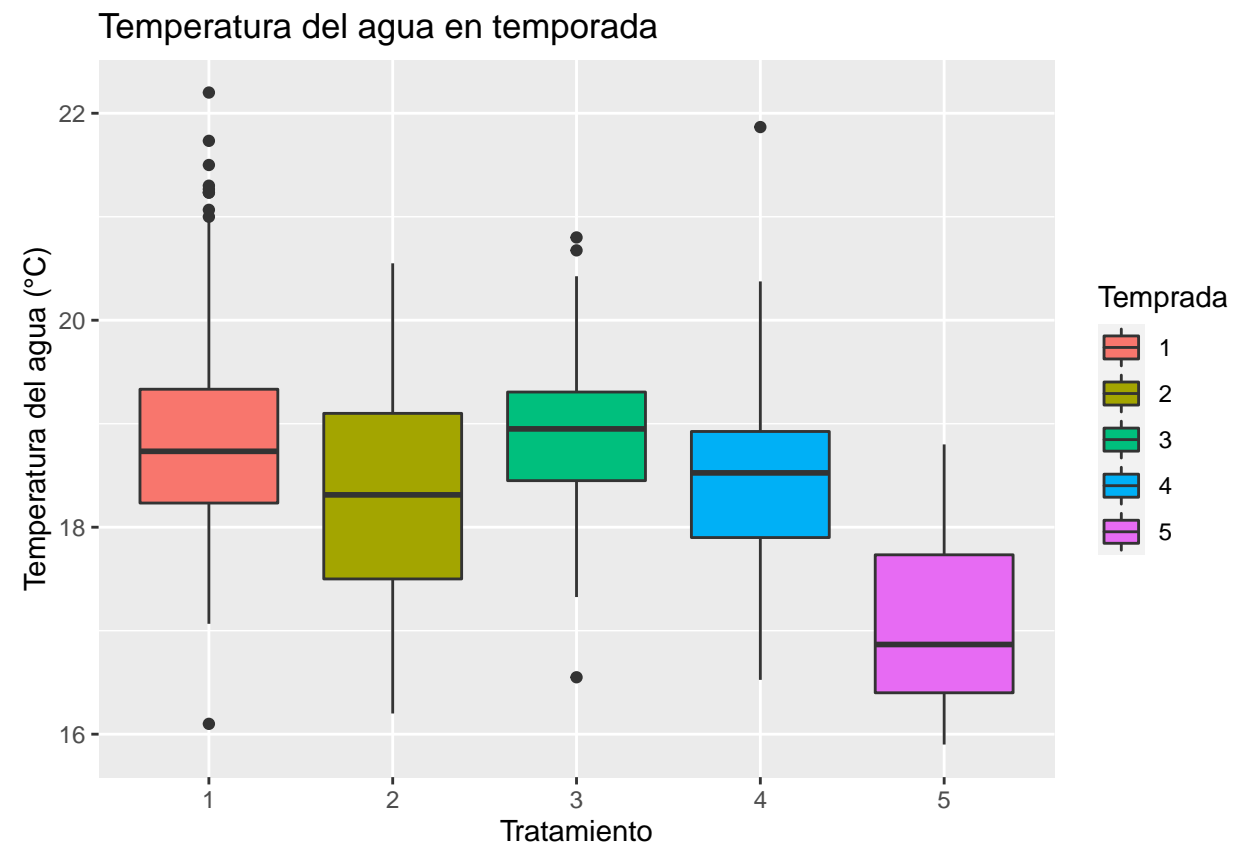


Temperatura por desove

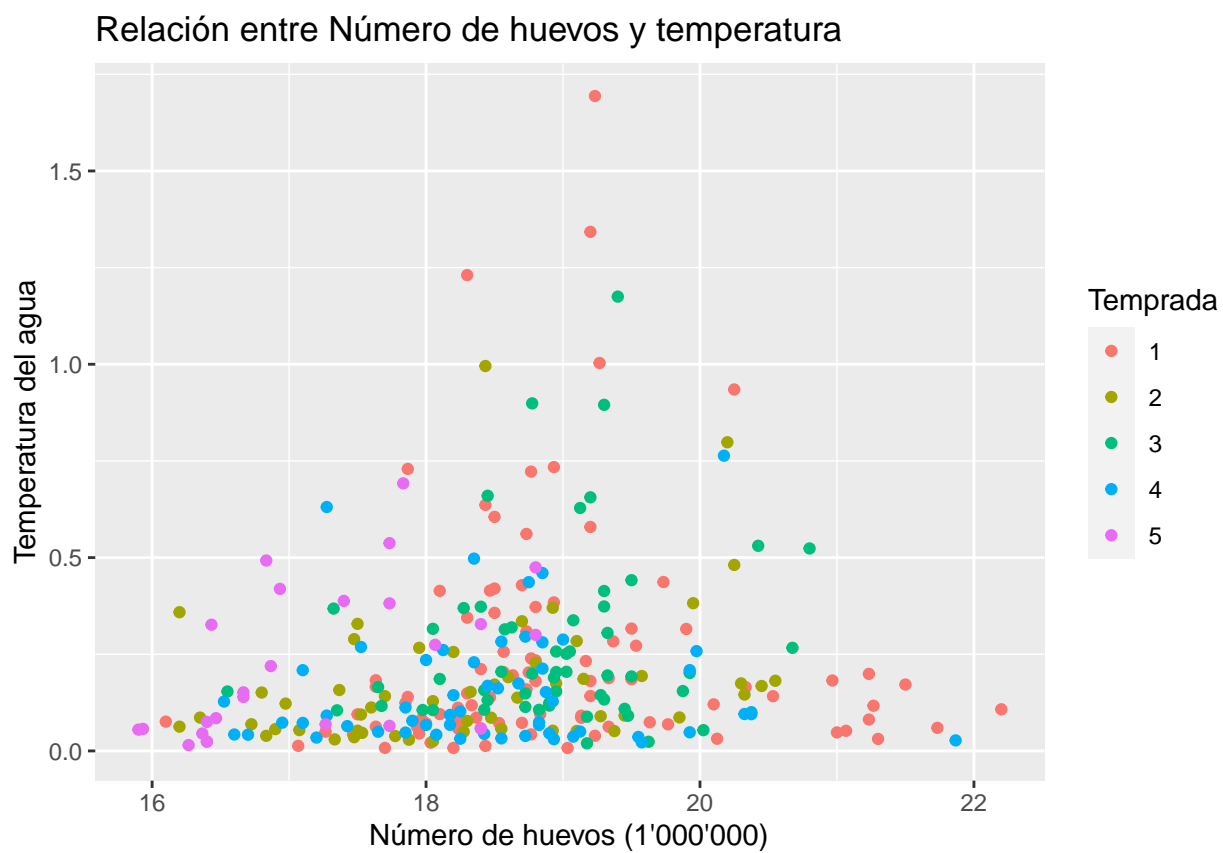
Histograma



Boxplot



Temperatura del agua vs huevos



Densidad acumulada

Distribución empírica acumulada

