datos

Autogenerated data summary from dataMaid

2025-03-25 10:11:20.505109

# Data report overview

The dataset examined has the following dimensions:

| Feature | Result |
| --- | --- |
| Number of observations | 631 |
| Number of variables | 41 |

### Checks performed

The following variable checks were performed, depending on the data type of each variable:

|  | character | factor | labelled | haven labelled | numeric | integer | logical | Date |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Identify miscoded missing values | × | × | × | × | × | × |  | × |
| Identify prefixed and suffixed whitespace | × | × | × | × |  |  |  |  |
| Identify levels with < 6 obs. | × | × | × | × |  |  |  |  |
| Identify case issues | × | × | × | × |  |  |  |  |
| Identify misclassified numeric or integer variables | × | × | × | × |  |  |  |  |
| Identify outliers |  |  |  |  | × | × |  | × |

Please note that all numerical values in the following have been rounded to 2 decimals.

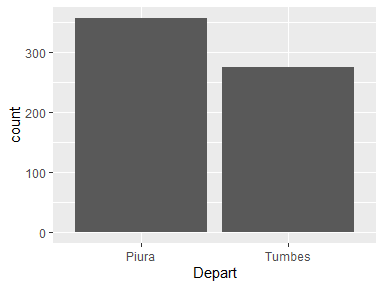
# Summary table

|  | Variable class | # unique values | Missing observations | Any problems? |
| --- | --- | --- | --- | --- |
| [Depart](#depart) | character | 2 | 0.00 % |  |
| [Provincia](#provincia) | character | 3 | 56.58 % |  |
| [Distrito](#distrito) | character | 4 | 56.58 % |  |
| [Localidad](#localidad) | character | 13 | 0.00 % |  |
| [Estación](#estación) | character | 11 | 0.00 % |  |
| [DAP](#dap) | numeric | 310 | 0.00 % |  |
| [Diam\_copa](#diam_copa) | numeric | 306 | 0.00 % | × |
| [Altura\_ram](#altura_ram) | numeric | 110 | 0.16 % | × |
| [Altura\_total](#altura_total) | numeric | 123 | 0.00 % | × |
| [Num\_ramas\_XX](#num_ramas_xx) | numeric | 16 | 56.89 % | × |
| [Forma\_arbol](#forma_arbol) | factor | 3 | 0.00 % |  |
| [Forma\_leg](#forma_leg) | factor | 3 | 0.00 % |  |
| [Calidad\_tronco](#calidad_tronco) | factor | 3 | 0.00 % |  |
| [Cal\_tronq\_leg](#cal_tronq_leg) | factor | 3 | 0.00 % |  |
| [Produccion\_frutos](#produccion_frutos) | factor | 5 | 0.00 % |  |
| [Prod\_fru\_leg](#prod_fru_leg) | factor | 5 | 0.00 % |  |
| [Calidad\_frutos](#calidad_frutos) | factor | 4 | 0.00 % |  |
| [Cal\_fru\_leg](#cal_fru_leg) | factor | 4 | 0.00 % |  |
| [Calidad\_follaje](#calidad_follaje) | factor | 3 | 0.00 % |  |
| [Cal\_foll\_leg](#cal_foll_leg) | factor | 3 | 0.00 % |  |
| [Bifurcacion](#bifurcacion) | factor | 3 | 0.00 % |  |
| [Bif\_leg](#bif_leg) | factor | 3 | 0.00 % |  |
| [fito\_IIhEd \_k](#fito_iihed-_k) | factor | 8 | 93.66 % | × |
| [fito\_IIhHt\_l](#fito_iihht_l) | factor | 8 | 93.66 % | × |
| [fito\_IIhM\_m](#fito_iihm_m) | factor | 8 | 93.66 % | × |
| [fito\_IItM\_n](#fito_iitm_n) | factor | 3 | 93.66 % | × |
| [fito\_IItcbB\_o\_XX](#fito_iitcbb_o_xx) | factor | 3 | 96.35 % | × |
| [fito\_IItssHC\_p\_XX](#fito_iitsshc_p_xx) | factor | 4 | 96.35 % | × |
| [fito\_IIrssHC\_q\_XX](#fito_iirsshc_q_xx) | factor | 3 | 96.35 % | × |
| [fito\_PsCh\_r](#fito_psch_r) | factor | 5 | 93.66 % | × |
| [fito\_PsAh\_s\_XX](#fito_psah_s_xx) | factor | 6 | 96.20 % | × |
| [fito\_PsLtr\_t](#fito_psltr_t) | factor | 4 | 93.66 % |  |
| [Parasitos\_XX](#parasitos_xx) | factor | 2 | 92.39 % | × |
| [Carbonatos](#carbonatos) | numeric | 10 | 0.00 % | × |
| [CE](#ce) | numeric | 13 | 0.00 % | × |
| [Fosforo](#fosforo) | numeric | 13 | 0.00 % | × |
| [Mat\_Org](#mat_org) | numeric | 13 | 0.00 % |  |
| [Nitrogeno](#nitrogeno) | numeric | 6 | 0.00 % | × |
| [Potasio](#potasio) | numeric | 13 | 0.00 % | × |
| [pH](#ph) | numeric | 12 | 0.00 % |  |
| [Suelo](#suelo) | factor | 2 | 0.00 % |  |

# Variable list

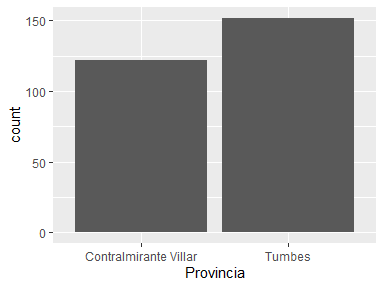
## Depart

| Feature | Result |
| --- | --- |
| Variable type | character |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 2 |
| Mode | “Piura” |



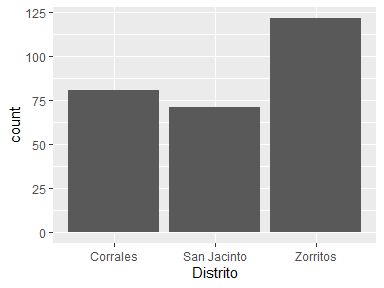
## Provincia

| Feature | Result |
| --- | --- |
| Variable type | character |
| Number of missing obs. | 357 (56.58 %) |
| Number of unique values | 2 |
| Mode | “Tumbes” |



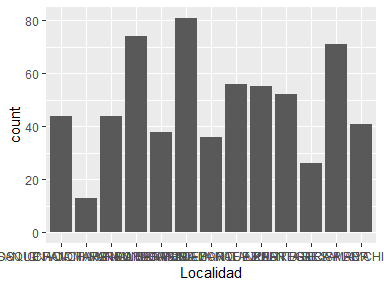
## Distrito

| Feature | Result |
| --- | --- |
| Variable type | character |
| Number of missing obs. | 357 (56.58 %) |
| Number of unique values | 3 |
| Mode | “Zorritos” |



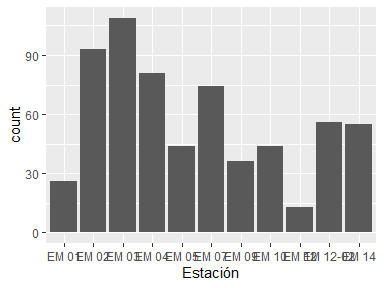
## Localidad

| Feature | Result |
| --- | --- |
| Variable type | character |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 13 |
| Mode | “INIA” |



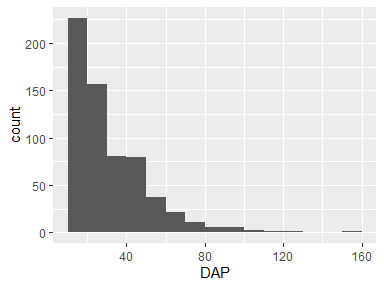
## Estación

| Feature | Result |
| --- | --- |
| Variable type | character |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 11 |
| Mode | “EM 03” |



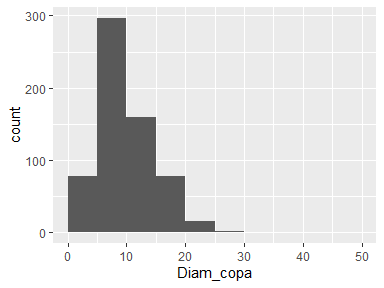
## DAP

| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 310 |
| Median | 24.51 |
| 1st and 3rd quartiles | 16.55; 40.66 |
| Min. and max. | 10.19; 150.24 |



## Diam\_copa

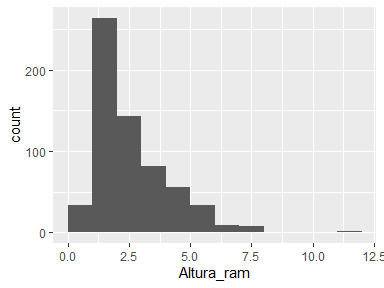
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 306 |
| Median | 8.85 |
| 1st and 3rd quartiles | 6.47; 13.03 |
| Min. and max. | 1.7; 48.8 |



* Note that the following possible outlier values were detected: "1.7", "2.25", "2.4", "2.45", "2.55", "2.95", "36.25", "48.8".

## Altura\_ram

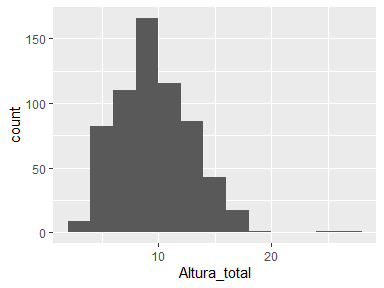
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 1 (0.16 %) |
| Number of unique values | 109 |
| Median | 2.1 |
| 1st and 3rd quartiles | 1.7; 3.4 |
| Min. and max. | 0.15; 11.1 |



* Note that the following possible outlier values were detected: "0.15", "0.3", "0.4", "0.5", "0.53", …, "0.7", "0.8", "1", "1.1", "1.2" (1 values omitted).

## Altura\_total

| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 123 |
| Median | 9.5 |
| 1st and 3rd quartiles | 7.5; 11.95 |
| Min. and max. | 3.2; 28 |



* Note that the following possible outlier values were detected: "25", "28".

## Num\_ramas\_XX

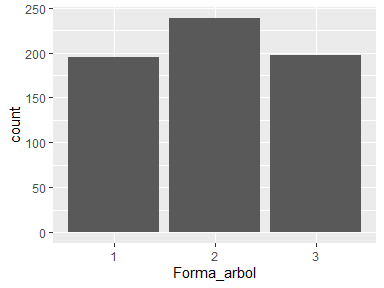
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 359 (56.89 %) |
| Number of unique values | 15 |
| Median | 5 |
| 1st and 3rd quartiles | 4; 7 |
| Min. and max. | 2; 16 |



* Note that the following possible outlier values were detected: "16".

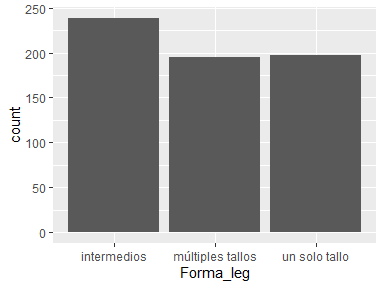
## Forma\_arbol

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “2” |
| Reference category | 1 |



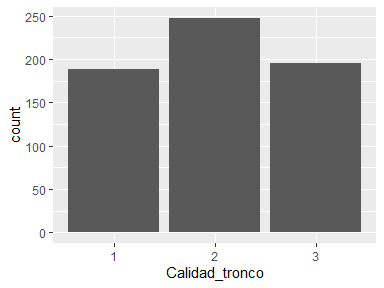
## Forma\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “intermedios” |
| Reference category | intermedios |



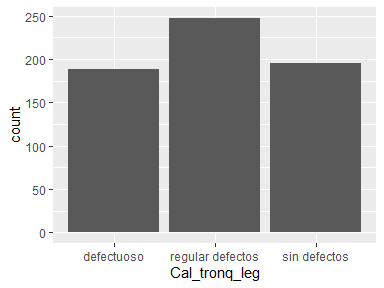
## Calidad\_tronco

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “2” |
| Reference category | 1 |



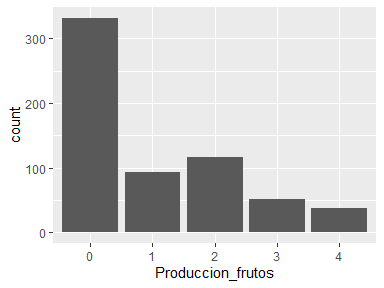
## Cal\_tronq\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “regular defectos” |
| Reference category | defectuoso |



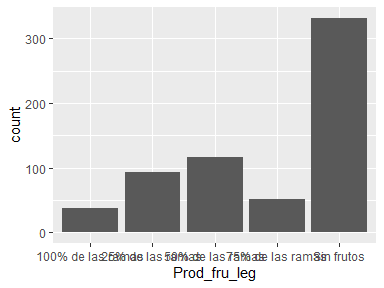
## Produccion\_frutos

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 5 |
| Mode | “0” |
| Reference category | 0 |



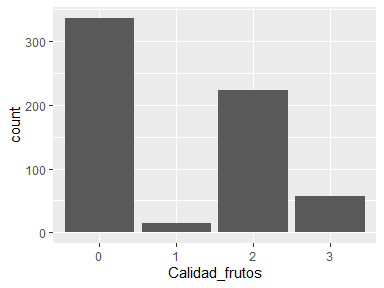
## Prod\_fru\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 5 |
| Mode | “Sin frutos” |
| Reference category | 100% de las ramas |



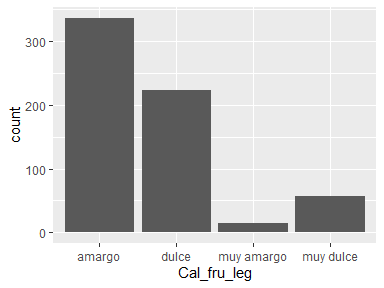
## Calidad\_frutos

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 4 |
| Mode | “0” |
| Reference category | 0 |



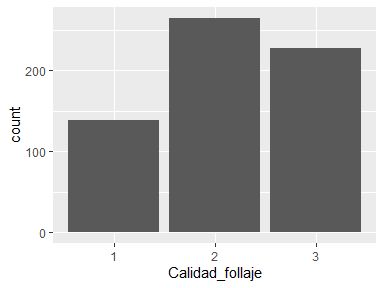
## Cal\_fru\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 4 |
| Mode | “amargo” |
| Reference category | amargo |



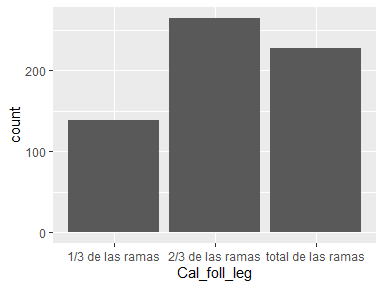
## Calidad\_follaje

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “2” |
| Reference category | 1 |



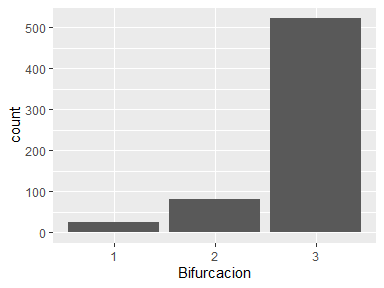
## Cal\_foll\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “2/3 de las ramas” |
| Reference category | 1/3 de las ramas |



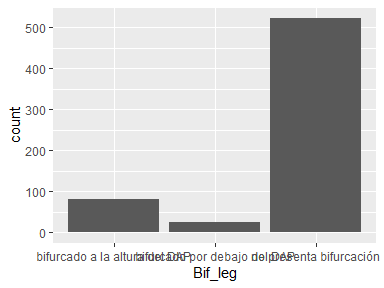
## Bifurcacion

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “3” |
| Reference category | 1 |



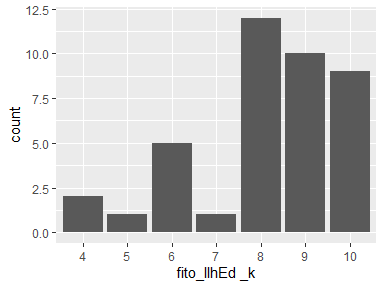
## Bif\_leg

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 3 |
| Mode | “no presenta bifurcación” |
| Reference category | bifurcado a la altura del DAP |



## fito\_IIhEd \_k

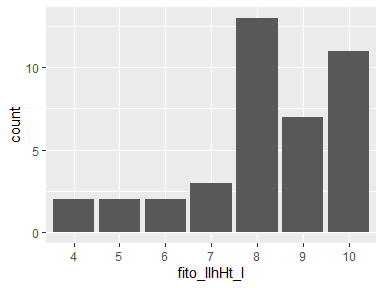
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 7 |
| Mode | “8” |
| Reference category | 4 |



* The following suspected missing value codes enter as regular values: "8", "9".
* Note that the following levels have at most five observations: "4", "5", "6", "7".

## fito\_IIhHt\_l

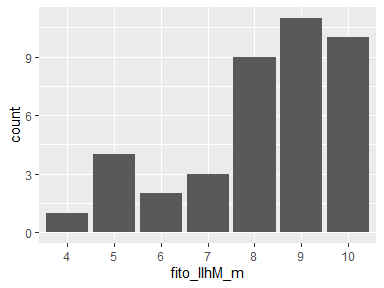
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 7 |
| Mode | “8” |
| Reference category | 4 |



* The following suspected missing value codes enter as regular values: "8", "9".
* Note that the following levels have at most five observations: "4", "5", "6", "7".

## fito\_IIhM\_m

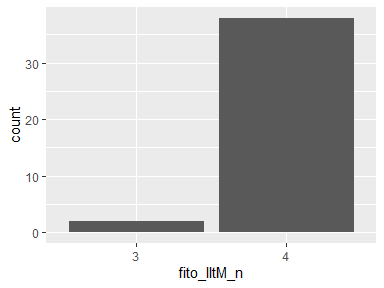
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 7 |
| Mode | “9” |
| Reference category | 4 |



* The following suspected missing value codes enter as regular values: "8", "9".
* Note that the following levels have at most five observations: "4", "5", "6", "7".

## fito\_IItM\_n

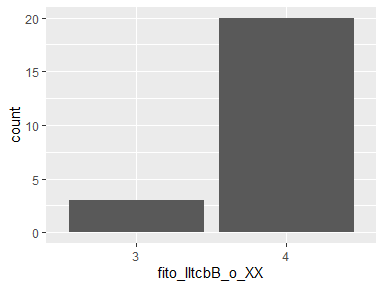
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 2 |
| Mode | “4” |
| Reference category | 3 |



* Note that the following levels have at most five observations: "3".

## fito\_IItcbB\_o\_XX

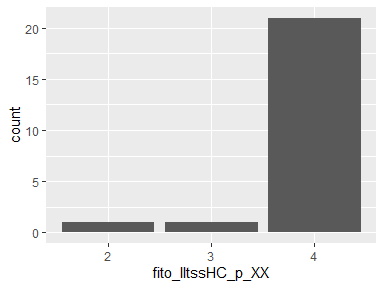
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 608 (96.35 %) |
| Number of unique values | 2 |
| Mode | “4” |
| Reference category | 3 |



* Note that the following levels have at most five observations: "3".

## fito\_IItssHC\_p\_XX

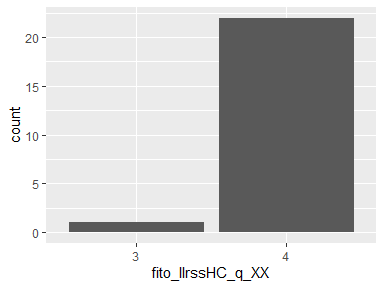
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 608 (96.35 %) |
| Number of unique values | 3 |
| Mode | “4” |
| Reference category | 2 |



* Note that the following levels have at most five observations: "2", "3".

## fito\_IIrssHC\_q\_XX

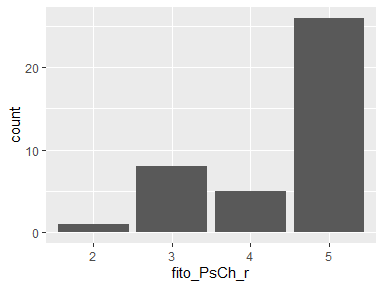
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 608 (96.35 %) |
| Number of unique values | 2 |
| Mode | “4” |
| Reference category | 3 |



* Note that the following levels have at most five observations: "3".

## fito\_PsCh\_r

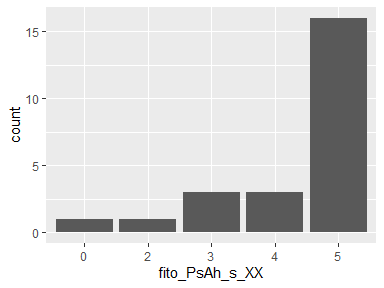
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 4 |
| Mode | “5” |
| Reference category | 2 |



* Note that the following levels have at most five observations: "2", "4".

## fito\_PsAh\_s\_XX

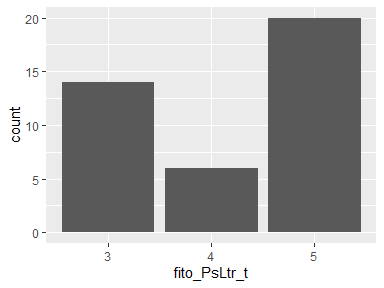
| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 607 (96.2 %) |
| Number of unique values | 5 |
| Mode | “5” |
| Reference category | 0 |



* Note that the following levels have at most five observations: "0", "2", "3", "4".

## fito\_PsLtr\_t

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 591 (93.66 %) |
| Number of unique values | 3 |
| Mode | “5” |
| Reference category | 3 |

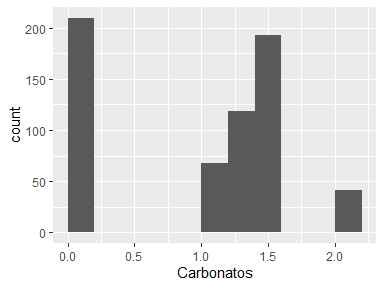


## Parasitos\_XX

* The variable only takes one (non-missing) value: "Loranthaceae". The variable contains 92.39 % missing observations.

## Carbonatos

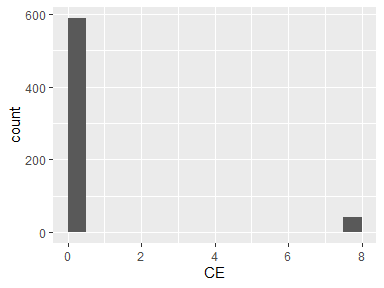
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 10 |
| Median | 1.27 |
| 1st and 3rd quartiles | 0.09; 1.55 |
| Min. and max. | 0.09; 2.1 |



* Note that the following possible outlier values were detected: "2.1".

## CE

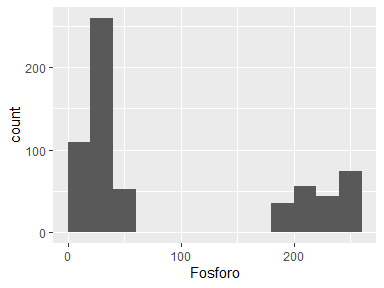
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 13 |
| Median | 0.18 |
| 1st and 3rd quartiles | 0.11; 0.32 |
| Min. and max. | 0.03; 7.69 |



* Note that the following possible outlier values were detected: "0.03", "7.69".

## Fosforo

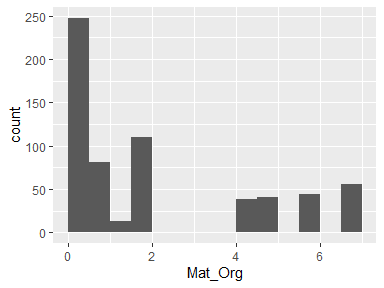
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 13 |
| Median | 38.12 |
| 1st and 3rd quartiles | 27.82; 211 |
| Min. and max. | 8.42; 250.1 |



* Note that the following possible outlier values were detected: "8.42", "8.43", "8.89".

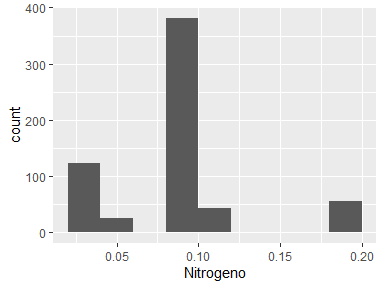
## Mat\_Org

| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 13 |
| Median | 0.97 |
| 1st and 3rd quartiles | 0.48; 4.1 |
| Min. and max. | 0.19; 6.7 |



## Nitrogeno

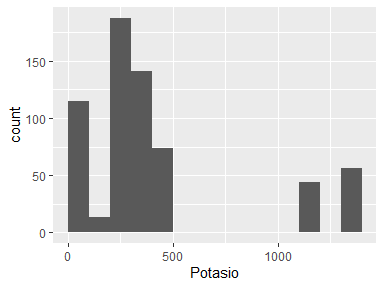
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 6 |
| Median | 0.09 |
| 1st and 3rd quartiles | 0.09; 0.1 |
| Min. and max. | 0.03; 0.2 |



* Note that the following possible outlier values were detected: "0.03", "0.06", "0.12", "0.2".

## Potasio

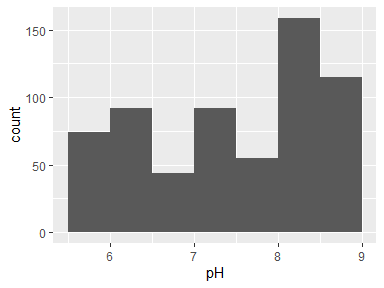
| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 13 |
| Median | 267.4 |
| 1st and 3rd quartiles | 221.5; 465.85 |
| Min. and max. | 11.1; 1321.13 |



* Note that the following possible outlier values were detected: "11.1", "74.4".

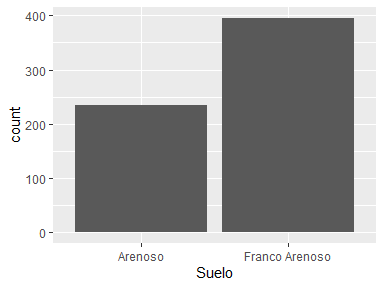
## pH

| Feature | Result |
| --- | --- |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 12 |
| Median | 7.51 |
| 1st and 3rd quartiles | 6.39; 8.42 |
| Min. and max. | 5.59; 8.68 |



## Suelo

| Feature | Result |
| --- | --- |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 2 |
| Mode | “Franco Arenoso” |
| Reference category | Arenoso |



Report generation information:

* Created by: Sebas (username: SEBASTIAN).
* Report creation time: mar. Mar. 25 2025 10:11:21
* Report was run from directory: C:/Users/SEBASTIAN/Desktop/INIA EE EL CHIRA/GIT/INIA\_algarrobo
* dataMaid v1.4.1 [Pkg: 2021-10-08 from CRAN (R 4.4.3)]
* R version 4.4.3 (2025-02-28 ucrt).
* Platform: x86\_64-w64-mingw32/x64(America/Lima).
* Function call: makeDataReport(data = datos)