Creciendo Juntos "Crop Tasks Para App" Database Read-Me

Introduction

This document provides an overview of the Creciendo Juntos Crop Tasks Para App Database, detailing the variables, data collection process, guiding principles, limitations, and assumptions. This database is designed to assist Creciendo Juntos in populating the Manejo de Huertas Crop and Crop Production Task databases, enabling home gardeners to track and manage their crops more effectively within the application. Additionally, the database serves as a centralized resource, organizing valuable information on farming practices from within the organization and alongside the Ministry of Agriculture. It is designed to be user-friendly and compatible with the current organization of the application to ensure easy task upload.

Database Link

Access the database here

Defining Variables

Crops

- **Description**: Primary crops being planted by the home gardeners.

Date

- **Description**: The day on which you should complete the associated task.
- **Note**:
  - If the date entry is 3, this means that on the third day you are expected to complete said task.
  - Two 'Date' options are provided:
    - One assuming day 0 = germination.
    - One assuming day 0 = transplantation.
  - CJ will be able to decide what fits best with their process.

Schedule of Activities

- **Description**: The dominant activities each crop must undergo to yield a high-quality harvest.

Description

- **Description**: In-depth description of the task at hand.
- **Note**: Typically includes the approximated time estimated needed to complete each task.

Data Source

- **Description**: The origin of the information used to fill each row entry.

Transferred to Application Database?

- **Description**: Indicates whether the task has been transferred and uploaded to the application's database. Entries are in the form of a 'yes' or 'no' drop down.
- **Note**: The ability to upload tasks can be found in the Cultivos tab, under the crop in question's "Tareas de Producción" tab.
    - See Admin Training Materials for further instruction on this

Additional Notes

- **Description**: Any noteworthy information that had otherwise gone unnoted.

Data Collection Process

1. **Initial Data Exchange**:
    - Used the list of crops provided by Elsa and Ronald via email on June 24, 2024 (view sheets 'Crops (ES) & (EN)').
    - Paired each crop with the list of activities provided by Elsa and Ronald in the same email (view sheets 'Activities (ES) & (EN)').
2. **Additional Data**:
    - Added additional crop tasks based on Ronald's "Datos Para APP.docx" shared with the McGill student team via email on July 4, 2024.
3. **Confirmation and Validation**:
    - Confirmed the day of each activity through the following sources:
        - Ministry of Agriculture: "Datos de Cultivos.xlsx" & "Registros y Costos2024.pdf"
        - Ronald and Creciendo Juntos Team: "Datos Para APP.docx"
        - Research assumptions and basic arithmetic, as indicated and described in the task descriptions.

Guiding Principles

- Prioritized the inclusion of the crops and tasks listed and shared with the McGill student team by Creciendo Juntos.

Limitations

- The preferred comprehensiveness of the database was uncertain.
- Avoided daily tasks such as "watering" or "plague monitoring."
- Avoided weekly tasks such as "fertilize" on the 5th, 12th, 19th, 26th, and so on until harvest completion.
- Instead, the student team has focused on marking core activities that indicate a major shift in caring for the crop (such as transplanting to pruning, pruning to harvesting, harvesting to plant removal), assuming that each farmer will carry out general daily tasks (watering, weeding, etc.) without needing a reminder.

Assumptions

- When calculating the total germination duration, we assume that the time in trays for transplanting does not include the initial days in the darkroom.
  - Example: When calculating the total germination duration, we assume that the time in trays (25 days) for transplanting does not include the initial 3 days in the darkroom, so the final germination day listed is 28, not 25.
- When faced with a range by which to complete a task, we input the earlier day to ensure that the notification alert system will always be released before it's too late.
  - Example: If the harvest duration is assumed to be 30 to 60 days, we calculate a harvest end date of 100 days by adding the earliest end date (30 days) to the harvest start day (70 days).
- Remaining assumptions and methodological process can be seen directly within the sheet via columns
  - **Fuente de datos // Data source**
  - **Notas adicionales // Additional notes**