

Business Question and Visualization Report

Date	13 January 2026
Team ID	
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
Maximum Marks	5 Marks

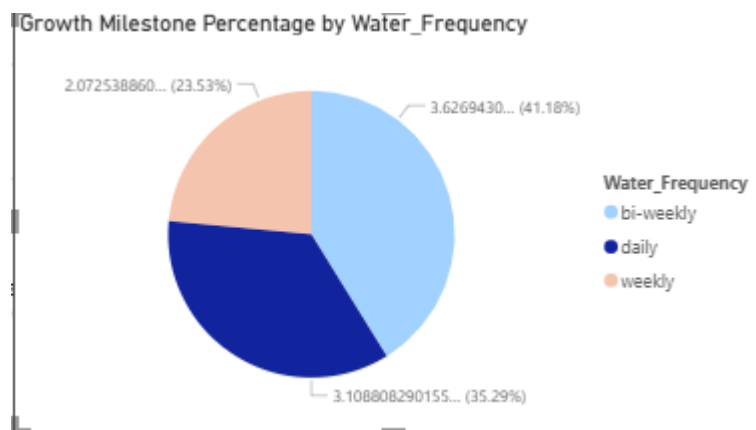
Business Questions and Visualisation

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. In this project, Power BI is used to transform plant growth data into interactive visualizations that help identify optimal environmental and management conditions influencing plant growth milestones.

Sample

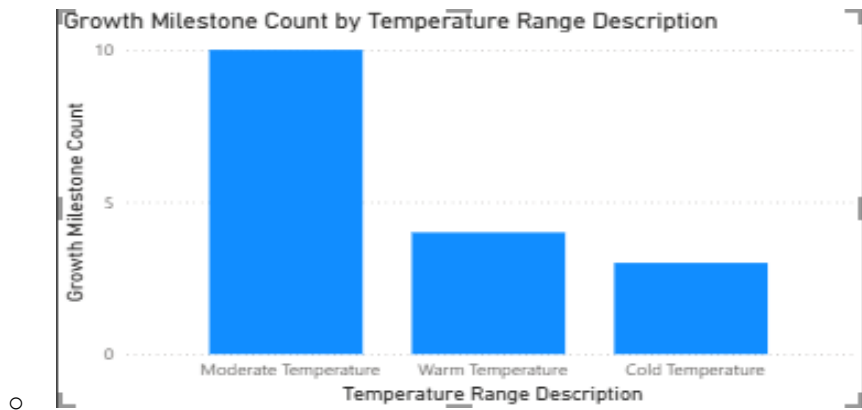
1. How does water frequency impact plant growth milestones?

- **Visualization:** Pie Chart showing *Growth Milestone Percentage by Water Frequency*
- *Screenshot of visualisation*



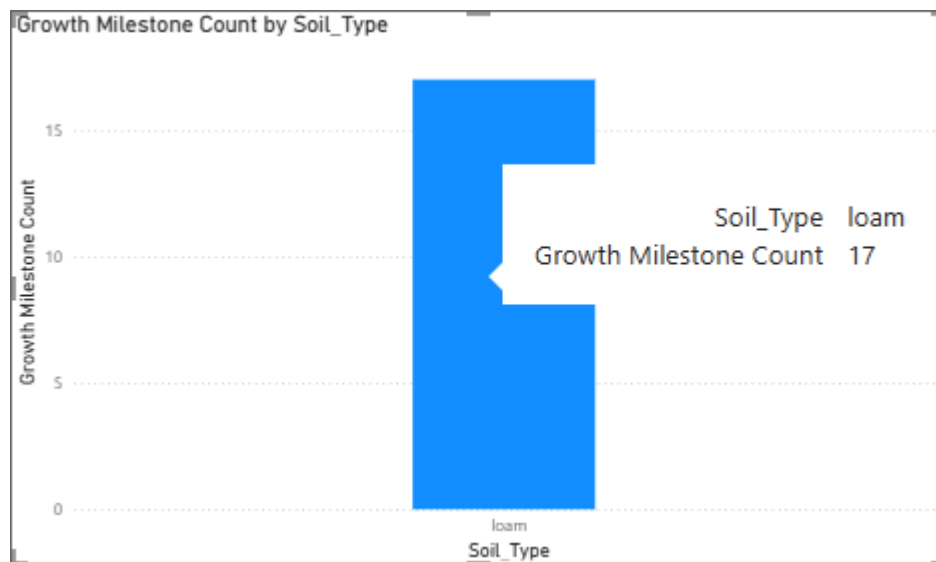
2. How does temperature range affect plant growth?

- **Visualization:** Column Chart showing *Temperature Range Description by Growth Milestone*
- *Screenshot of visualisation*



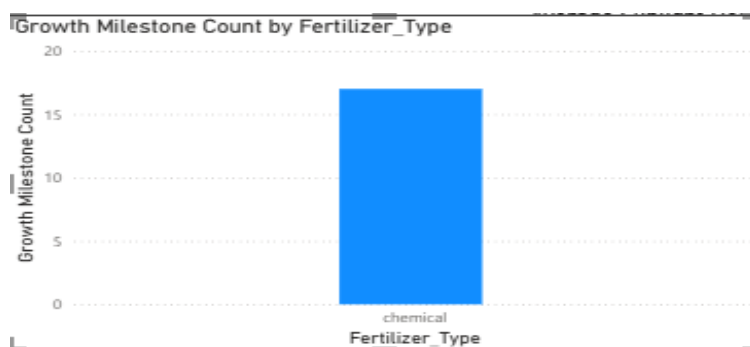
3. Which soil type results in the highest plant growth milestones?

- Visualization:** Clustered Bar Chart showing *Growth Milestone Count by Soil Type*
- Screenshot of visualisation*



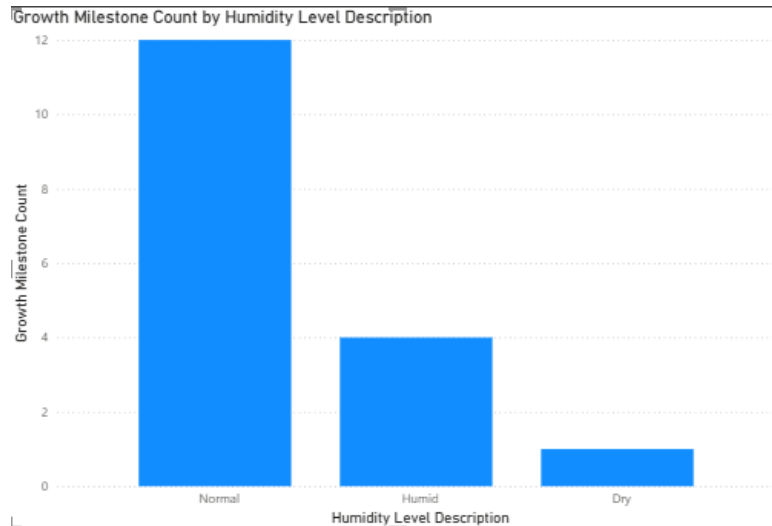
4. Which fertilizer type contributes most to plant growth milestones?

- Visualization:** Clustered Column Chart showing *Growth Milestone Count by Fertilizer Type*
- Screenshot of visualisation*



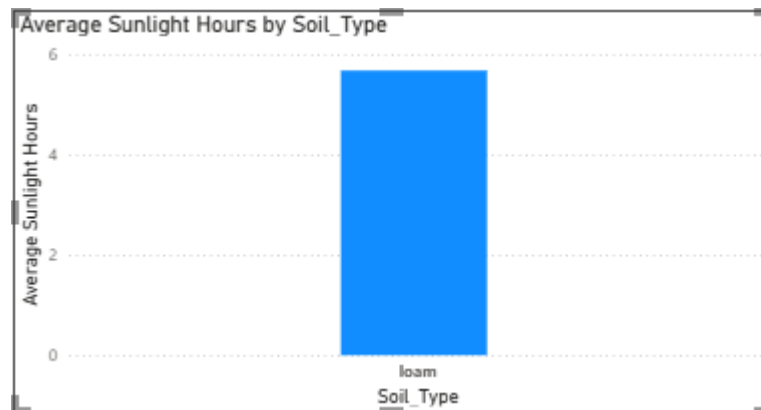
5. How does humidity level influence plant growth milestones?

- **Visualization:** Bar Chart showing *Growth Milestone Count by Humidity Level Description*
- *Screenshot of visualisation*



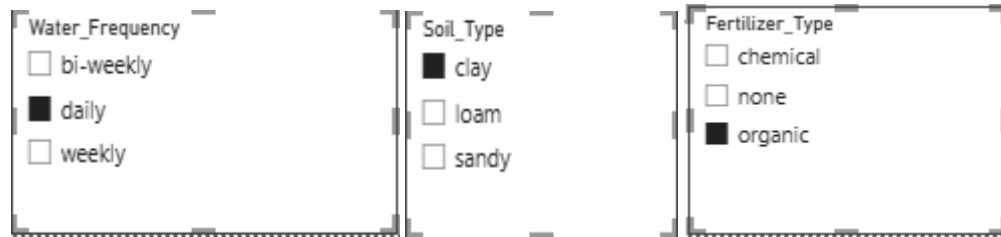
6. Which soil type receives the highest average sunlight hours?

- **Visualization:** Bar Chart showing *Average Sunlight Hours by Soil Type*
- *Screenshot of visualisation*



7. What are the overall average environmental conditions affecting plant growth?

- **Visualization:** Card Visuals displaying:
 - Average Temperature
 - Average Humidity
 - Average Sunlight Hours
- *Screenshot of visualisation*



8. How do average sunlight hours vary across different conditions affecting plant growth?

- **Visualization:** Column Chart showing *Average Sunlight Hours* across different categories (such as Soil Type or Growth Milestone Category).
- *Screenshot of visualisation*

