Which types of flowers attract the highest number of bees?

Introduction

My science fair project is what types of flowers attract the highest numbers of bees.If you plant different types of flowers, then the numbers of bees will change because they could be attracted to different flowers. This is important because it will show people how to care for plants for bees . It could also help people to avoid certain plants that will attract bees. This project will help include bees and make pollination easier for them.

Statement of the Problem

- The problem in this experiment is figuring out which flowers attract the highest number of bees.The purpose of this experiment is helping other gardeners. I want to do this experiment because bees are good at pollination. I've never really planted flowers before and I think it would be a fun project to do.This information could help people know which flowers to plant and how to take care of them for bees or it could show them which flowers to not plant if they want to avoid bees.

Hypothesis

- If you plant different types of flowers, then the numbers of bees will change because they could be attracted to different flowers.

Materials

- 3 bags of loam soil
- Flower seeds-(sunflower,mandeville,petunia)
- water

Loam soil

seeds

water

Variables

- Independent- the flowers
- Dependent- the number of bees
- Control- soil,watering schedule,environment,light exposure

Procedures

- 1-Conduct a minimum of 7 trials
- 2-Plant 1 of each; sunflower seeds, mandeville seeds, and petunia seeds in loam soil
- 3-Measure 50 mL of water
- 4-Pour the water onto the seed.
- 5-Repeat until flower is fully grown
- 6-Record how many bees are flying to your flowers
- 7-Repeat.

Results and Data

The results section shows data gathered from the experiment and highlights any noticeable trends. I did 7 trials for each flower. The flowers I tested were Mandevilles, Petunias, and Sunflowers. The average number of bees for the Mandeville was 5.4, the Sunflower was 8.2, the Petunias was 7.14. All of them were close in numbers but the Sunflower had the most bees. My hypothesis was supported because there were different amounts of bees for each flower.

Results: Data Table

number of trials	number of bees
trial 1	4
trial 2	5
trial 3	7
trial 4	8
trial 5	6
trial 6	7
trial 7	9

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trial 1	4
trial 2	5
trial 3	7
trial 4	8
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trial 7	9

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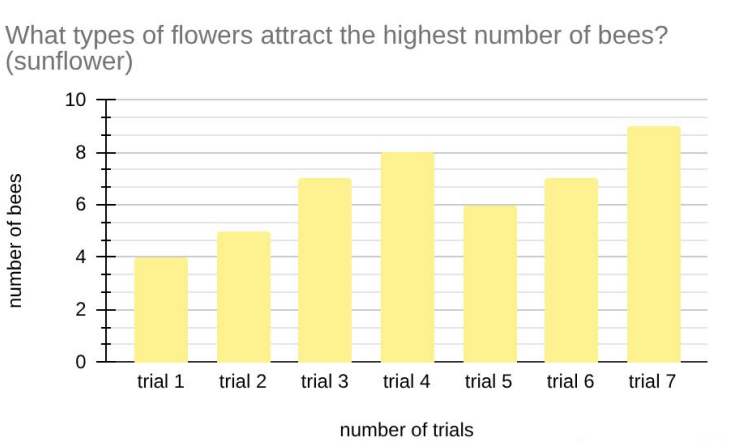
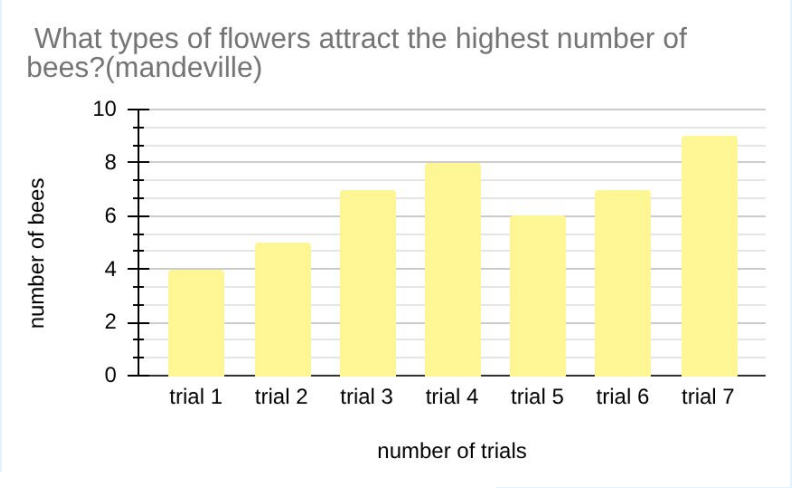
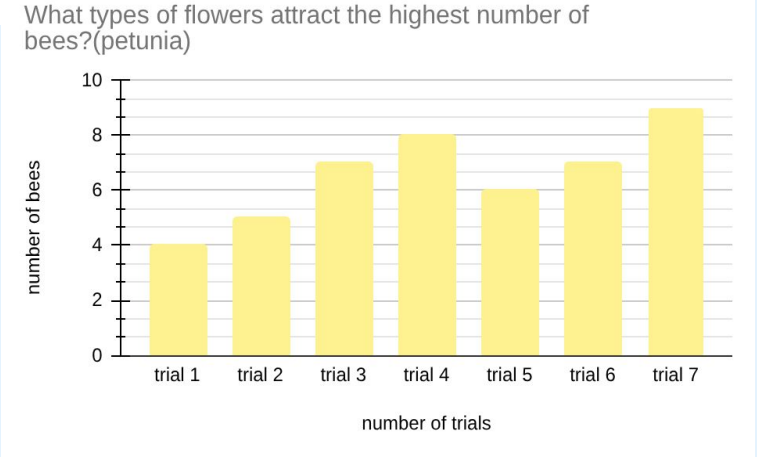
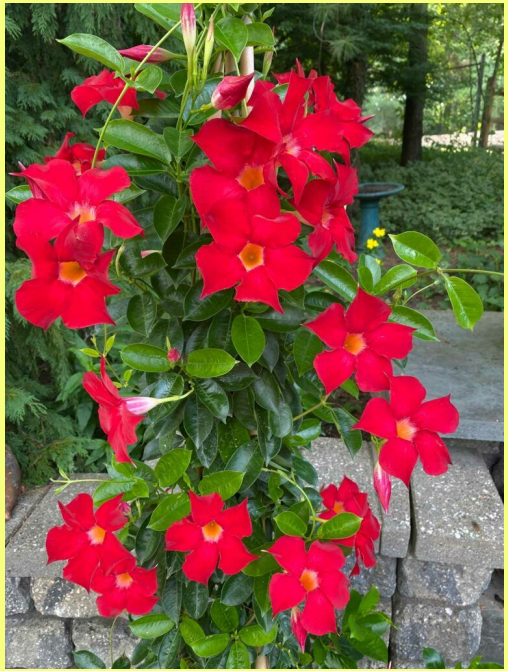
Results: Data Graph



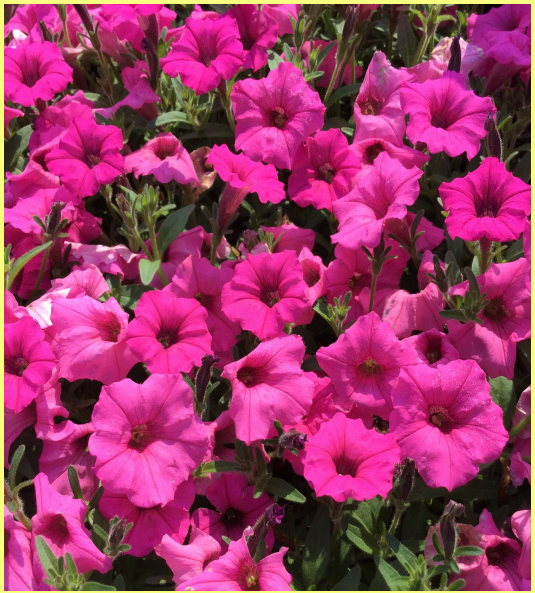




Photographs of Project:



Mandeville



Petunia

Sunflower

Conclusion

1. The objective of this experiment was to see what types of flowers attract the highest number of bees.The objective was accomplished because I saw what flower had the most bees attracted to it. The results showed what flower the bees liked the best.

2. My hypothesis was supported by the results of the experiment.I predicted that each flower would have different amounts of bees. After conducting the experiment, I found that each flower had a different number of bees.

3. An analysis of my results showed that the sunflower was a favorite among the bees. The Mandeville and the Petunia also had a lot of bees, but not as many as the Sunflower. The results show that the bees liked the sunflower.

Implications and Ideas for Future Research...

4. What I learned from this lab was that it is important for bees to have flowers that they like to make pollinating easier for them.It also shows what to and what to not plant if you do or do not want bees in your garden.

5. What I would do differently is have more trials to see if the amount of bees increase or decrease. I would change the types of flowers and compare the number of bees. Instead of just having three flowers, I could have more or I could just have two and see which flower the bees like best.

References

Harman, A. (2022). *A List of Plants That Attract Bees.* Retrieved on October 10, 2025 from https://backyardbeekeeping.iamcountryside.com

Kearney, H. (2016, May 11). *TOP 10 BEE-FRIENDLY FLOWERS.* Retrieved on October 10, 2025 from https://beekeepinglikeagirl.com/

Rodrigues, K. (2018). *6 Awesome Plant Types That Will Attract Bees to Your Garden.* Retrieved on October 10, 2025 from https://bestbees.com

Title

Variables

- Independent- the flowers
- Dependent- the number of bees
- Control- soil,watering schedule,environment,light exposure

Objective

- In this experiment I will be testing which flowers attract the highest number of bees.

Results

- If you plant different types of flowers, then the numbers of bees will change because they could be attracted to different flowers.

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5. What I would do differently is have more trials to see if the amount of bees increase or decrease. I would change the types of flowers and compare the number of bees. Instead of just having three flowers, I could have more or I could just have two and see which flower the bees like best.