



# Proposal

This study examines the impact of foil covering on fruit fly populations and pest control in Spanish mango.

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**Proposal Title:** Investigating the Effects of Foil Covering on Fruit Fly Populations and Pest Management Strategies in Spanish Mango Orchards

**Abstract:** This study aims to investigate the effects of foil covering on fruit fly populations and pest management strategies in Spanish mango orchards. The goal is to determine the effectiveness of foil covering in reducing fruit fly infestations and to identify the best pest management practices for foil-covered mango orchards.

**Background:** Fruit flies are a major pest in mango orchards, causing significant crop losses. Foil covering is a common agricultural practice used to improve plant growth and reduce pest infestations. However, there is limited research on the effects of foil covering on fruit fly populations in mango orchards.

## Research Questions:

- What are the effects of foil covering on fruit fly populations in Spanish mango orchards?
- Which pest management methods are most effective for controlling fruit fly infestations in foil-covered mango orchards?
- What are the long-term effects of foil covering on fruit fly populations and pest management strategies in mango orchards?

## Methods:



- The study will be conducted in Spanish mango orchards with and without foil covering.
- Fruit fly populations will be monitored using traps and visual counts.
- The effectiveness of various pest management methods, including chemical and biological controls, will be evaluated.
- The long-term effects of foil covering on fruit fly populations and pest management strategies will be assessed by monitoring fruit fly populations and crop yields over multiple years.

#### **Expected Outcomes:**

- The study will provide data on the effects of foil covering on fruit fly populations and pest management strategies in Spanish mango orchards.
- The results of the study will help farmers and pest management consultants make informed decisions about the best pest management practices for mango orchards.
- The study will contribute to a better understanding of the ecology of fruit flies in mango orchards.

#### **Timeline:**

- The study is expected to be conducted over a period of three years.
- The first year will be used to set up the study and conduct initial data collection.
- The second and third years will be used for continued data collection and analysis.

#### **Budget:**

- The estimated budget for the study is €100,000.
- The budget will cover the costs of labor, equipment, and supplies.

#### **Deliverables:**

- The results of the study will be published in peer-reviewed scientific journals and presented at conferences.
- The results will also be disseminated to farmers and pest management consultants in the form of fact sheets and other educational resources.

#### **Key Considerations:**

- The study will be conducted in collaboration with local farmers and pest management consultants.
- The study will be conducted in a way that minimizes its impact on the environment.
- The study will be conducted in a way that maintains the safety of workers and the public.

**Conclusion:** This study will provide valuable information on the effects of foil covering on fruit fly populations and pest management strategies in Spanish mango orchards. The results of the study will help to improve pest management practices in mango orchards and reduce crop losses.