



Fruit Flies In-silico  
Prevention & Management

**FF•IPM**

In-silico boosted pest prevention  
off-season focused IPM

against new + emerging fruit flies

**TRAINING MATERIAL**



Horizon 2020  
European Union Funding  
for Research & Innovation





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ENTITY

**Biosecurity & population modeling**





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**BIOSECURITY & POLULATION MODELLING**

# **Fruit-fly population growth models**

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**MODULE 11**



## Key Aspects

Fruit-fly population growth models

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### **Unit 1 (TITLE) / Fundamentals on models and fruit-fly population growth**

Discussion Question #1 What is a pest model?

Discussion Question #2 What is an insect population?

### **Unit 2 (TITLE) / Population Growth Models**

Discussion Question #3 What is a fruit-fly population growth model?

Discussion Question #4 Why they are useful?

### **Unit 3 (TITLE) / Modelling platform**

Discussion Question #5 Which are the most used/known population growth models?

Discussion Question #6 Why use DYMEX?



## Learning outcomes

### Fruit-fly population growth models

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This module explores population growth models. Fruit fly population growth models provide valuable tools for studying population dynamics and designing pest management strategies.

At the end of this module the trainer would be able to

- Understand what a model is in ecology
- Understand the basic characteristics of a fruit-fly population and learn about its growth
- Understand what is a population growth model and its usefulness.
- Learn about the most known population growth models.
- Learn about the DYMEX software and its advantages on the modelling of fruit-fly population dynamics.