

Quebec:

KNOWLEDGE ON THE SPOTTED WING DROSOPHILA, A MAJOR PEST OF BERRY CROPS RESEARCH Team: Annabelle Firlej (IRDA), Daniel Cormier (IRDA), Jean-Philippe Légaré (MAPAQ), Stéphanie Tellier (MAPAQ), Christian Lacroix (MAPAQ), Liette Lambert (MAPAQ) YEARS: 2016–2017

We will conduct a literature review on various aspects of the SWD (biology, life cycle, overwintering, host plants, etc.) and the available integrated control methods that are applicable to the Quebec context

PEST CONTROL STRATEGIES TO REDUCE THE PLANT HEALTH IMPACT OF THE SPOTTED-WING DROSOPHILA, Team: Annabelle Firlej (IRDA), Daniel Cormier (IRDA), Valérie Fournier (Laval University), Justin Renkema (University of Florida) YEARS: 2016–2018
The purpose of this research project is to determine the effect of delaying the insecticide application with respect to the first capture, and to evaluate the potential of natural enemies to control SWD populations, with a view to reducing the plant health impact of SWD.

THE STERILE INSECT RELEASE AS BIOLOGICAL CONTROL METHOD AGAINST THE SPOTTED-WING DROSOPHILA: STERILIZATION PROTOCOL, COMPETITIVENESS OF IRRADIATED MALES AND RELEASES IN SEMI-NATURAL CONDITIONS

Team: Annabelle Firlej (IRDA), Jacques Brodeur (University of Montréal), Daniel Cormier (IRDA), François Fournier (Collège Montmorency), Véronique Martel (LFC), Marc Vreysen (IAEA), Carlos Cáceres (IAEA) YEARS: 2014–2017

The primary objective of this project is to evaluate the potential of sterile insects as a new biological method of controlling the SWD. This entails the following sub-objectives: 1. Developing a sterilization protocol for *D. suzukii* 2. Assessing the competitiveness in semi-natural conditions of *D. suzukii* males that have been irradiated in the laboratory

CORRELATION BETWEEN SWD TRAP AND DAMAGE IN RASPBERRY

Team: Annabelle Firlej (IRDA), Christian Lacroix (MAPAQ), Elizabeth lefrançois (MAPAQ), Franz Vanoosthuyse (IRDA) YEARS: 2016–2018

The objective is to study the correlation between the SWD captured in trap and the larval infestation in the summer and fall raspberry.

EVALUATION OF GARLIC BASED REPELLENTS TO PROTECT RASPBERRY FROM SWD, Team: Annabelle Firlej (IRDA), Daniel Cormier (IRDA), Franz Vanoosthuyse (IRDA) YEARS: 2016–2017

The objective is to compare efficacy of Garlic barrier, with Mosquito less and Alsa to protect harvest of fall raspberry from SWD.

Submitted by Annabelle Firlej