

## TRAPPING EFFICIENCY IN CASE OF DIFFERENT TRAP OPENINGS (DELTA-SLIT-MODIFIED SLIT)

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### Purpose of experiment:

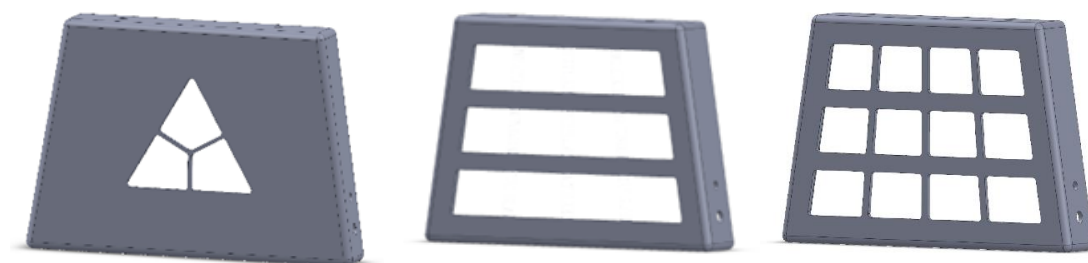
The aim of the trial is to compare the catches in Trapview SC traps with different openings (DELTA, SLIT and modified SLIT – the opening, which prevents bird captures). The experiment should show if different trap openings are needed.

### 1. TRIAL TECHNICAL INFORMATION

**Monitored pest:** *Cydia pomonella*, Codling moth

**Crop:** apple

**Type of traps in the experiment:** Trapview DELTA SC, Trapview SLIT SC, “Trapview modified SLIT SC”



**Serial numbers of Trapview traps:**

**SLIT # SC:** S09306, S08714

**SLIT SC:** S09303, S08729

**DELTA SC with barriers:** S08873, S05187

**Lure(s):** Biocont 4-week lure

Follow the manufacturer's instructions for handling and storing the lures. All lures in the experiment must be of the same type.

**Distance between the traps:** 100m

Traps in the field must be properly mounted to provide optimal performance. Higher catches will be recorded in upper compared to lower canopy positions. Very few moths will be captured above or

below the canopy. To optimize monitoring of codling moth, the trap should be placed in the upper third of the canopy. A good place to locate a trap is in area where moth catches from previous seasons were high (hot spots).

## 2. TRIAL CONFIGURATION

**Start of experiment:** 10.5.2023

**End of experiment:** 20.10.2023

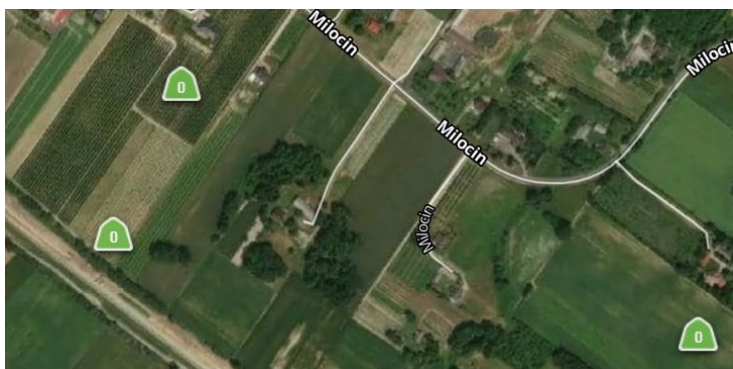
**Location(s):** South part of Poland loc. Góra Św. Jana and South east part of Poland loc. Miłocin

Write down the locations and serial numbers of the traps, describe all the details of the trial and add some photos of traps, installation, location.

Góra Św. Jana



Miłocin



The environmental conditions (wind conditions, sun exposure, humidity) as well as agricultural practices (fruit tree density and form, irrigation, plant protection) should be equivalent at least for all the traps from the same replicate, better for all the traps from the experiment. If mating

disruption or mass trapping is present in the area, make sure that all the traps within trial are in or out of their reach (better out).



The traps are positioned on the south side of the rows. Typical tree spacing is 3.5x1m, trees are about 8-10 years old, drip irrigation, orchard protection is spraying. Traps are placed at a height of 1.5-1.8m.

### 3. INTERMEDIATE TRIAL OBSERVATIONS

Write down all the deviations and peculiarities that you notice during the experiment.

**Pheromone (and sticky panel) replacement info and possible pesticide applications should be regularly recorded in the Trapview application to ensure proper understanding and further analysis.**

It is very important that traps are well maintained. Lures must be changed regularly (latest at the end of their shelf life), at the same time for all experimental traps. When handling with lures, wear disposable gloves to prevent cross contamination. When the sticky surface becomes saturated with pests, dust or other debris, self-cleaning should be triggered. Any new leaves should be removed from observation surface. After any extreme weather conditions all traps should be checked if they need replacement or repair.

Pheromone lures are changed every 4 weeks.

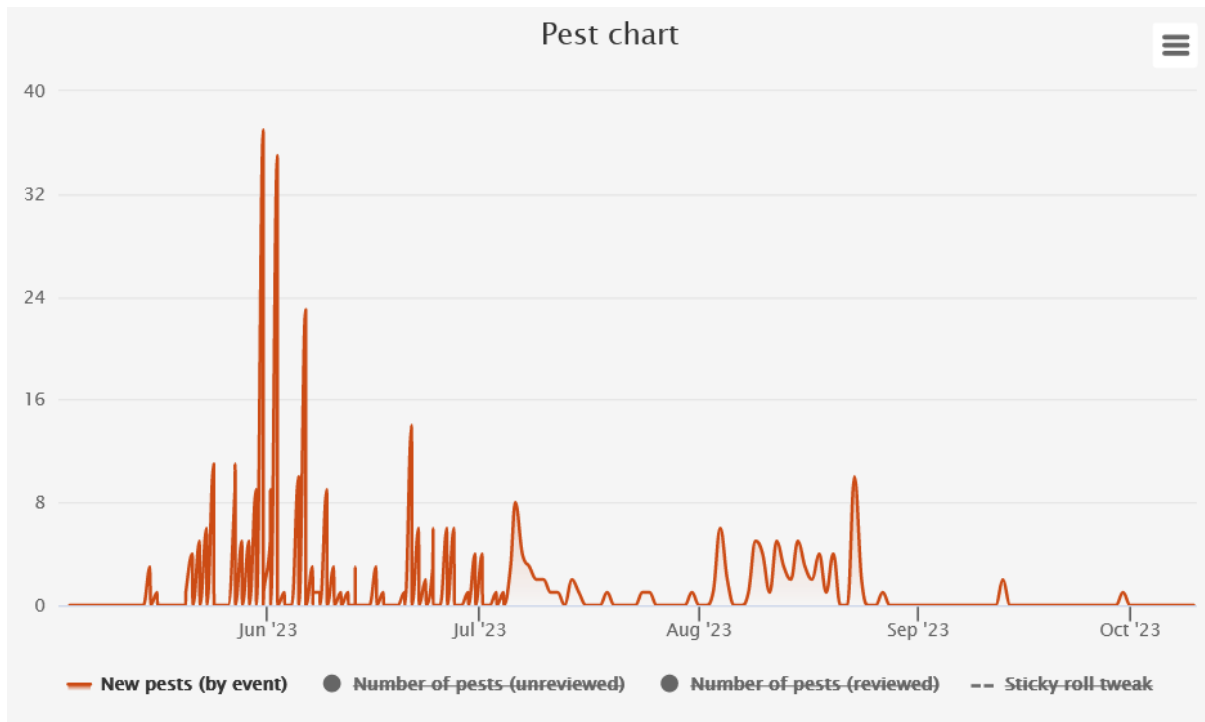
All fruit growers sprayed first time between 5<sup>th</sup> and 9<sup>th</sup> June. Second treatment was between 26<sup>th</sup> and 30<sup>th</sup> June. Both treatments were with active ingredient Chlorantraniliprole at a dose of 157ml.

### 4. FINAL TRIAL CONCLUSIONS

Write the report about the trial results and define all conclusions. Final report should include also different statistics and the data from the manual traps (if present).

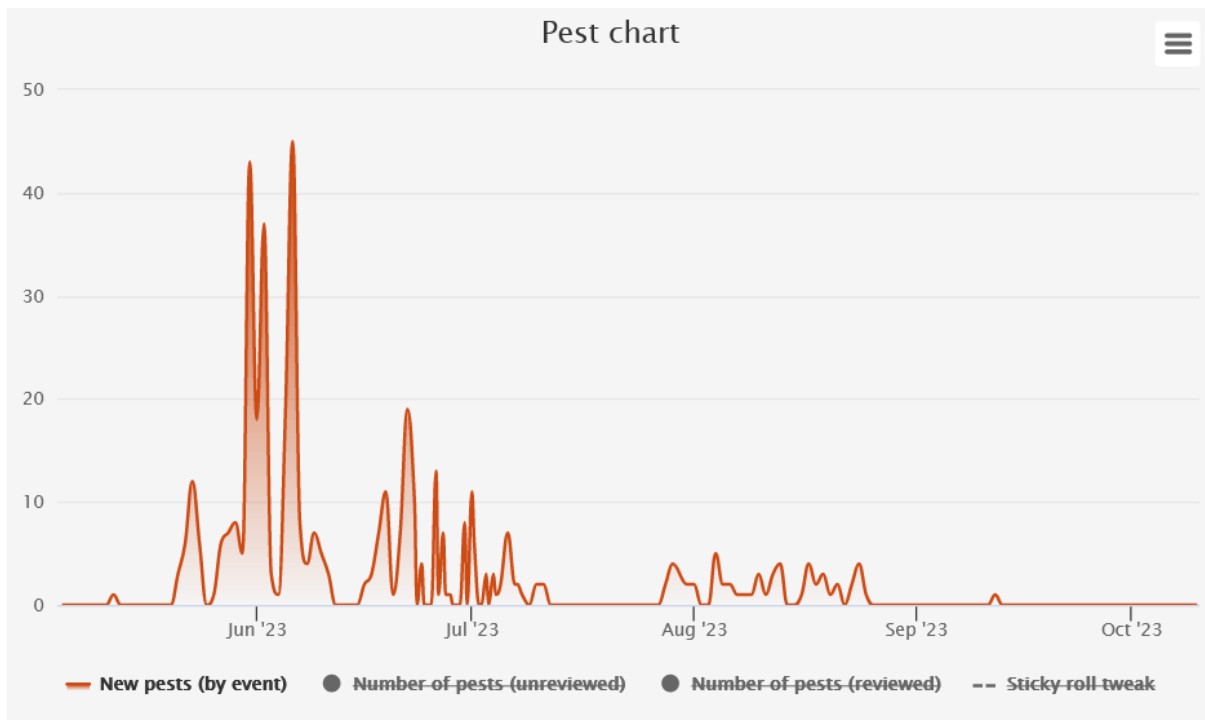
### Góra Św. Jana

Trapview modified SLIT SC S09306



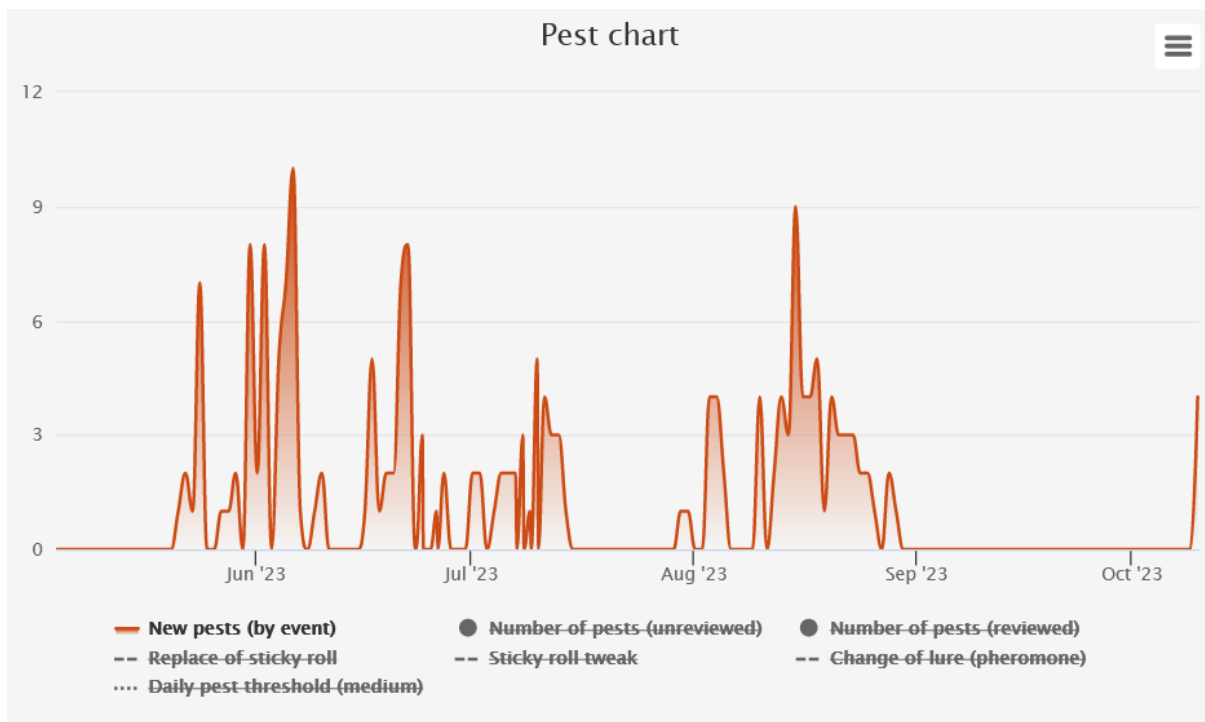
Total new pests in period: 371

### Trapview SLIT SC S09303



Total new pests in period: 439

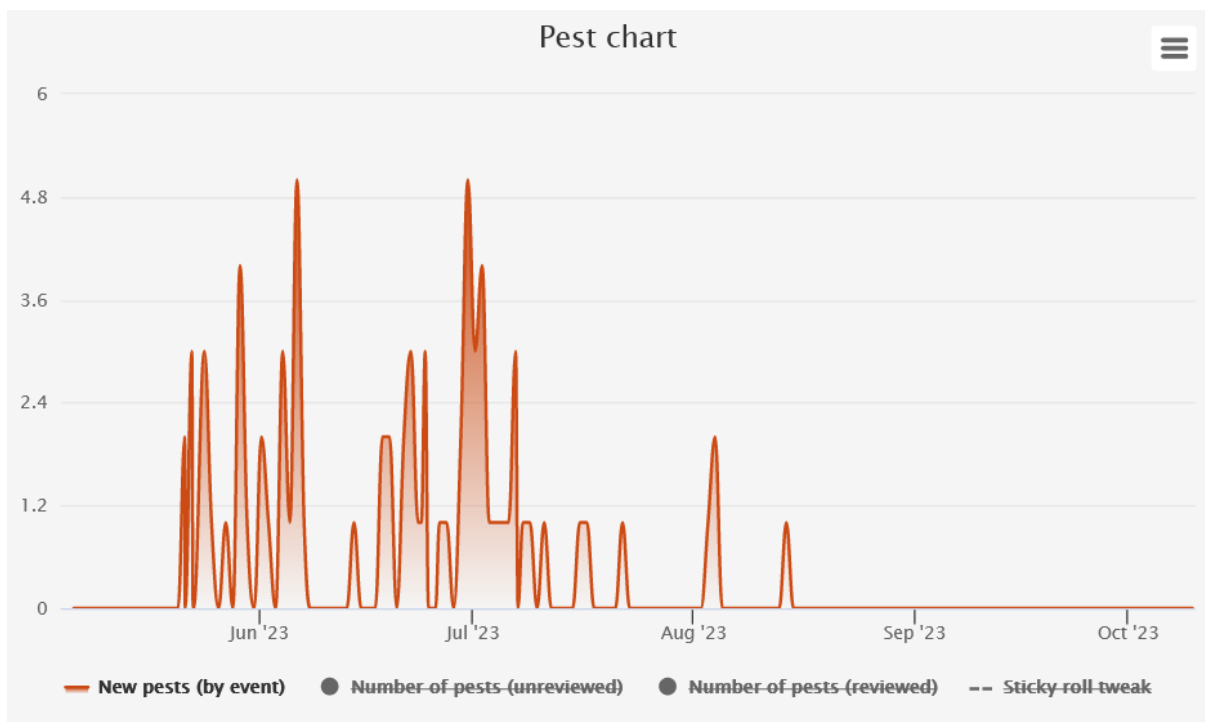
### Trapview DELTA SC with barriers S08873



Total new pests in period: 195

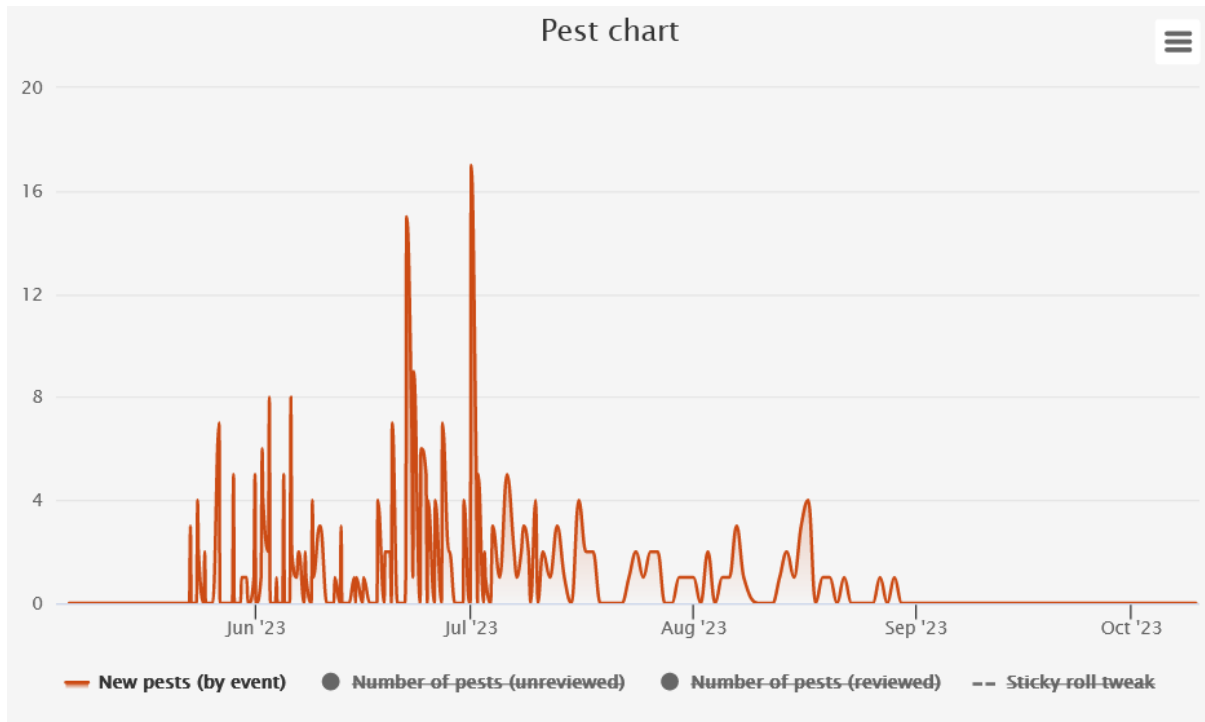
### Mifocin

#### Trapview modified SLIT SC S08714



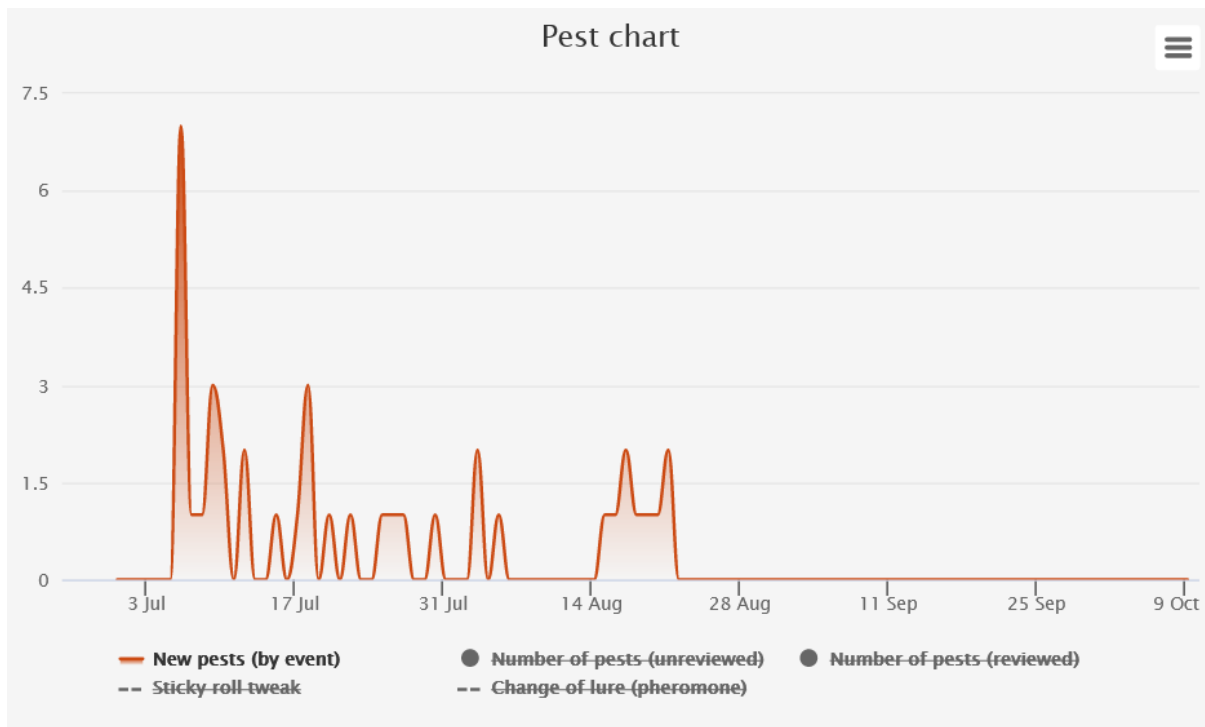
Total new pests in period: 76

Trapview SLIT SC S08729



Total new pests in period: 281

Trapview DELTA SC with barriers S05178



Total new pests in period: 39

On both locations SLIT SC caught the most moths, so we can assume that this is most suitable opening for monitoring codling moth. On both locations modified slit also had many catches and delta with barriers was least suitable entrance.

ACCUMULATED PEST PRESSURE			
Location	DELTA	SLIT	SLIT #
Góra Św. Jana	191	438	368
Miłocin	39	69	14

