

LIGHT TRAPS FOR OSTRINIA NUBILALIS: Trapview AURA VERTICAL SC and Trapview AURA FUNNEL SC

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Purpose of experiment:

The aim of the trial is to find out which one of experimental light traps is most suitable to monitor European corn borer (*Ostrinia nubilalis*). Through experiment we will find out which type of light trap is most successful in attracting and retaining the pest.

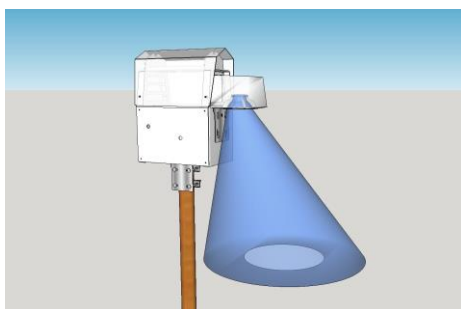
1. TRIAL TECHNICAL INFORMATION

Monitored pest: *Ostrinia nubilalis*, European corn borer

Crop: corn

Type of traps in the experiment: FUNNEL SC, VERTICAL SC, CONE-NET SC

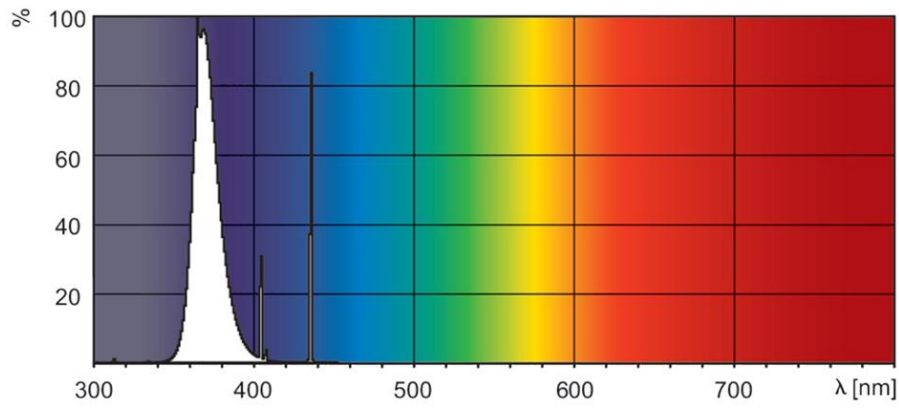
Serial numbers of Trapview traps: S011847, S11841, S06728, S06729, S06212, S06732



Lure(s): *Ostrinia nubilalis* Bioprox pheromone, fenilalanin and lights Philips ACTINIC BL TL 40W, Philips ACTINIC BL TL 15W

Features:

- Emit long-wave UV-A radiation in the 350-400nm range
- UV-B/UV-A ratio less than 0.1% (UV-B 280-315nm)
- 100% Lead free
- Low mercury
- Wide power range



Distance between the traps: traps were placed about 300m apart.

2. TRIAL CONFIGURATION

Start of experiment: 6.6.2023

End of experiment: 21.9.2023

Location(s): Roje pri Žalcu

Trap location:



Trap installation:



3. INTERMEDIATE TRIAL OBSERVATIONS

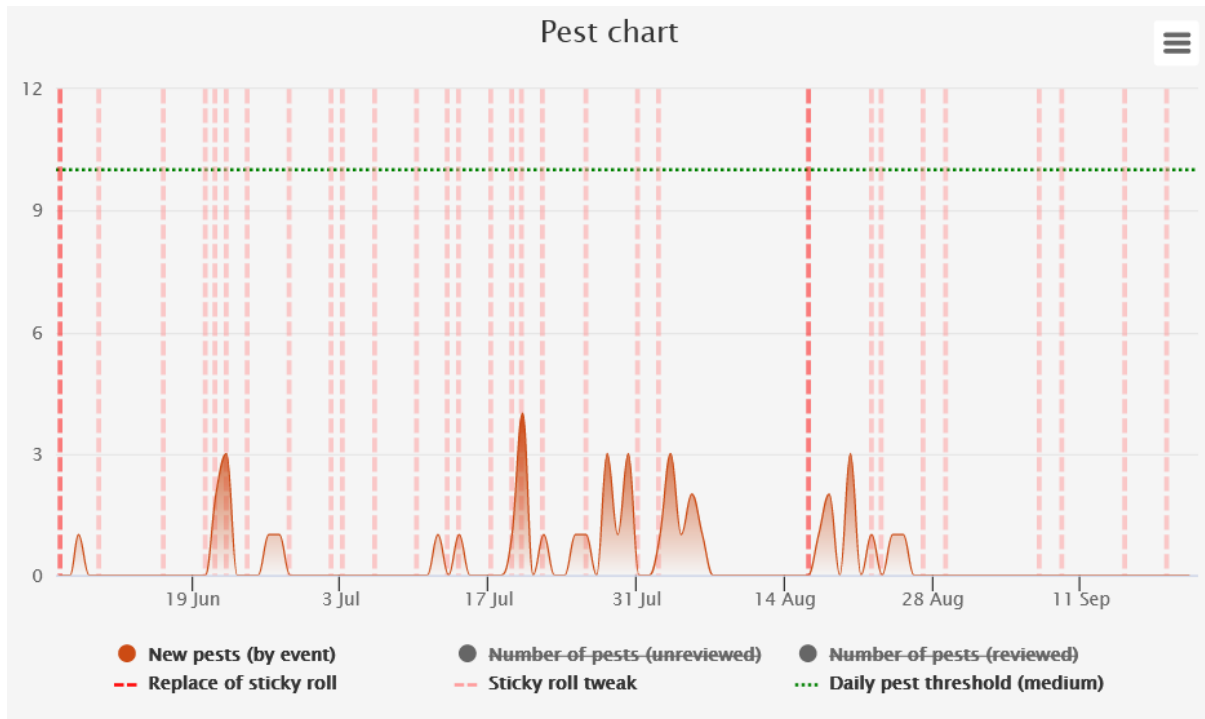
Until 15th of June lights does not lit. At first lights lit between 00:00 and 3:00, from 12.7.2023 onward lights lit between 22:00 and 3:00.

VERTICAL SC had camera issue between 13th and 15th June. On 16th June the problem has been fixed as camera was replaced. Then in the middle of August sticky roll was thorn due to heavy rain period. Sticky roll was wet; therefore, it tears more easily. On 5th and 6th September there was no picture due to empty battery.

FUNNEL SC also had replaced sticky roll, because it ran out. On 5th and 6th September there was no picture due to empty battery.

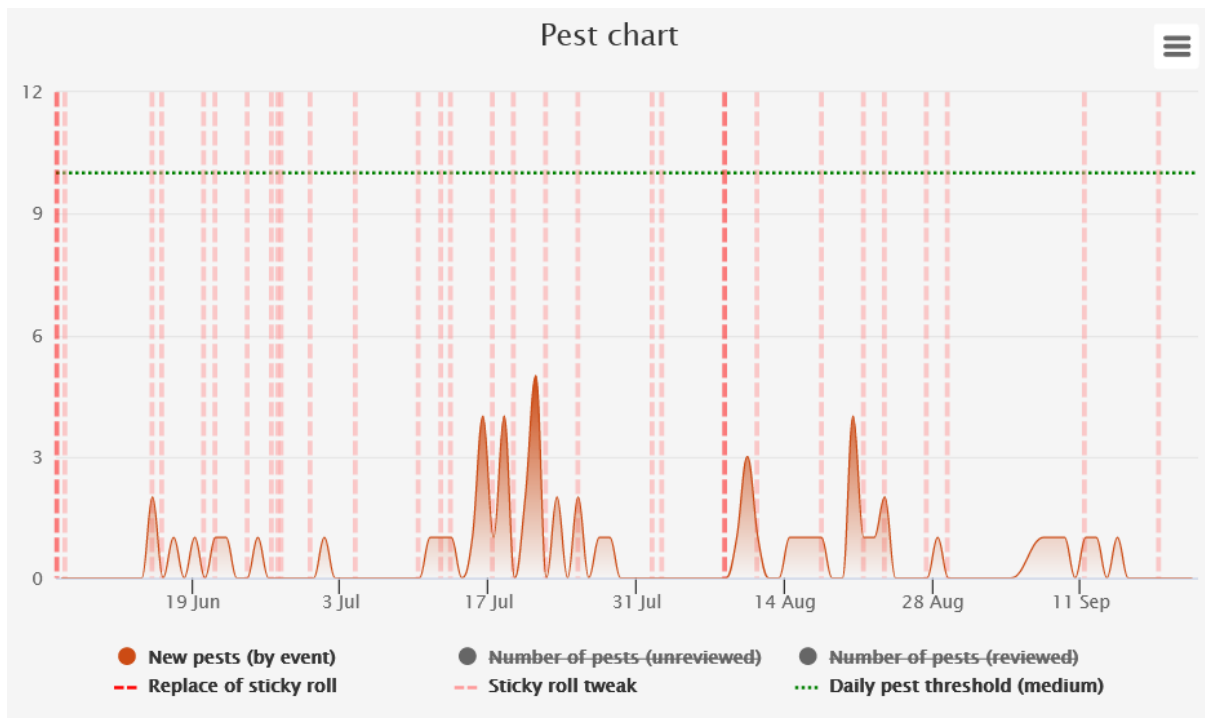
4. FINAL TRIAL CONCLUSIONS

VERTICAL SC, S11841



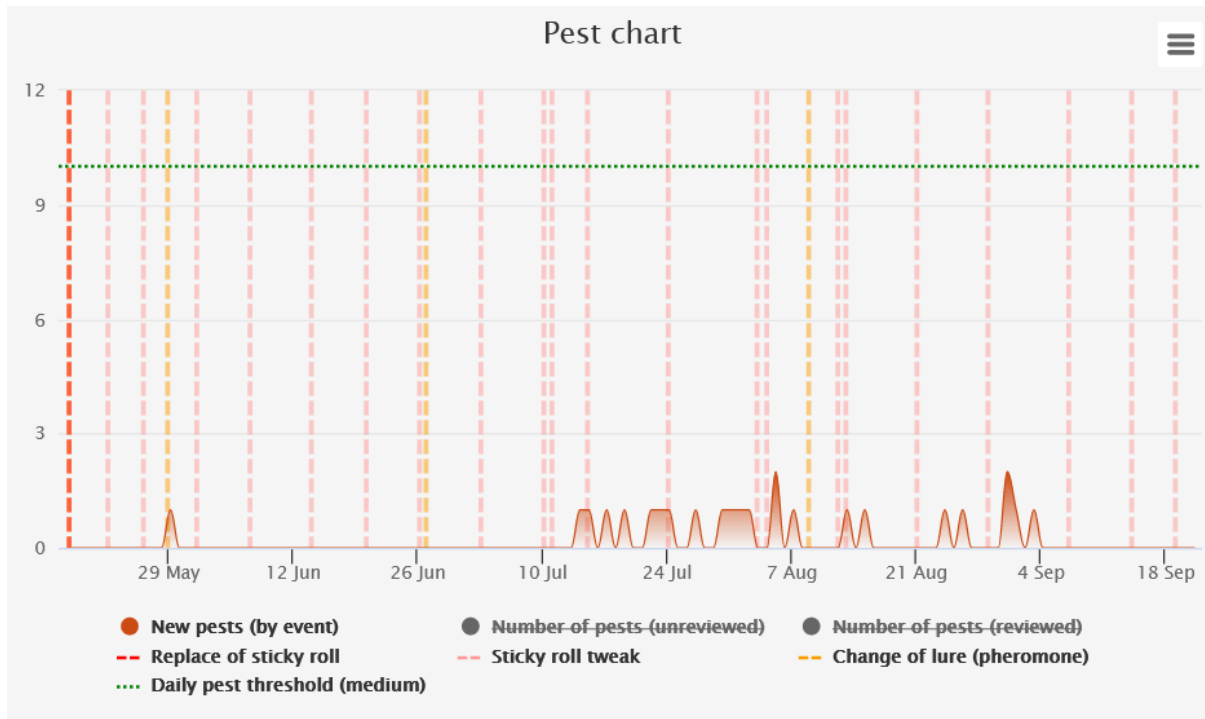
Total new pests in period: 42

FUNNEL SC, S11847



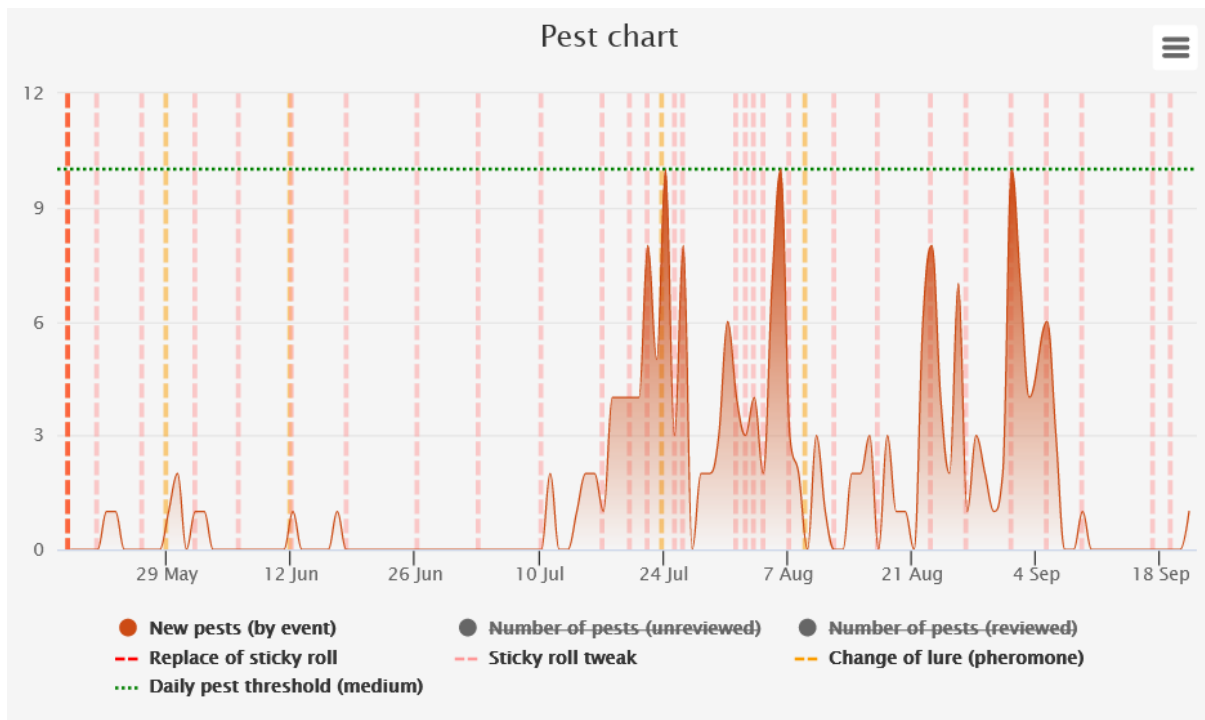
Total new pests in period: 58

CONE-NET, S06728



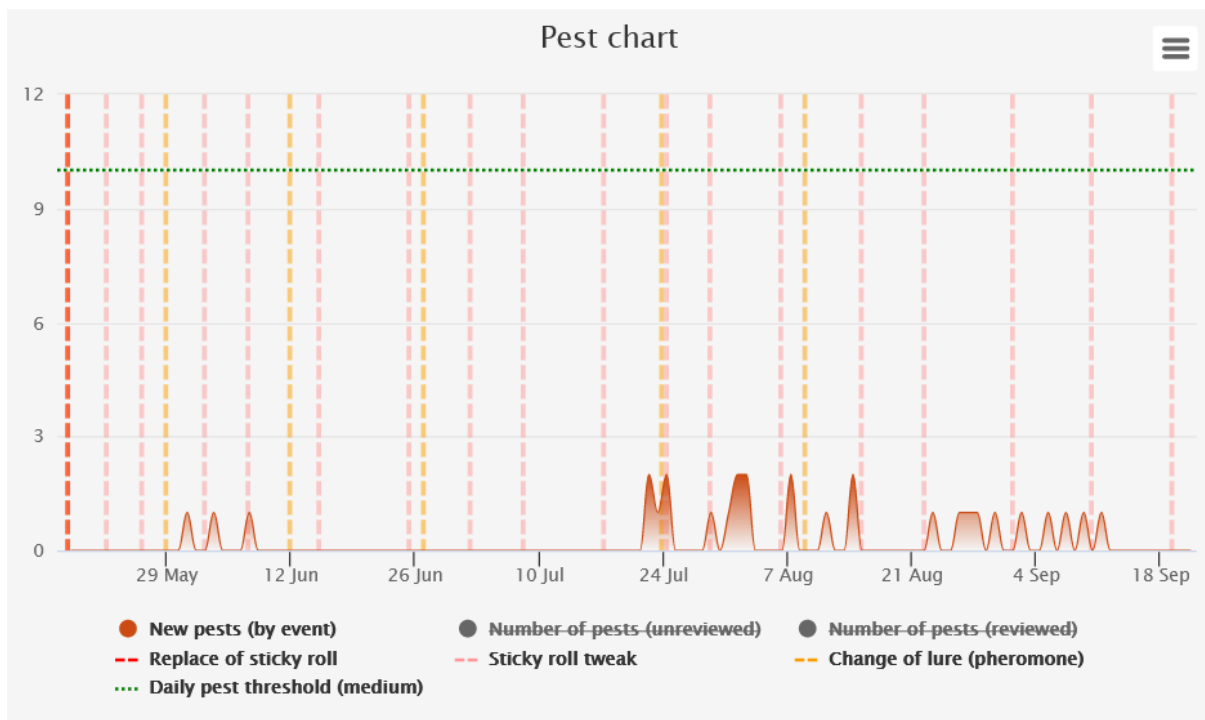
Total new pests in period: 24

CONE-NET, S06729



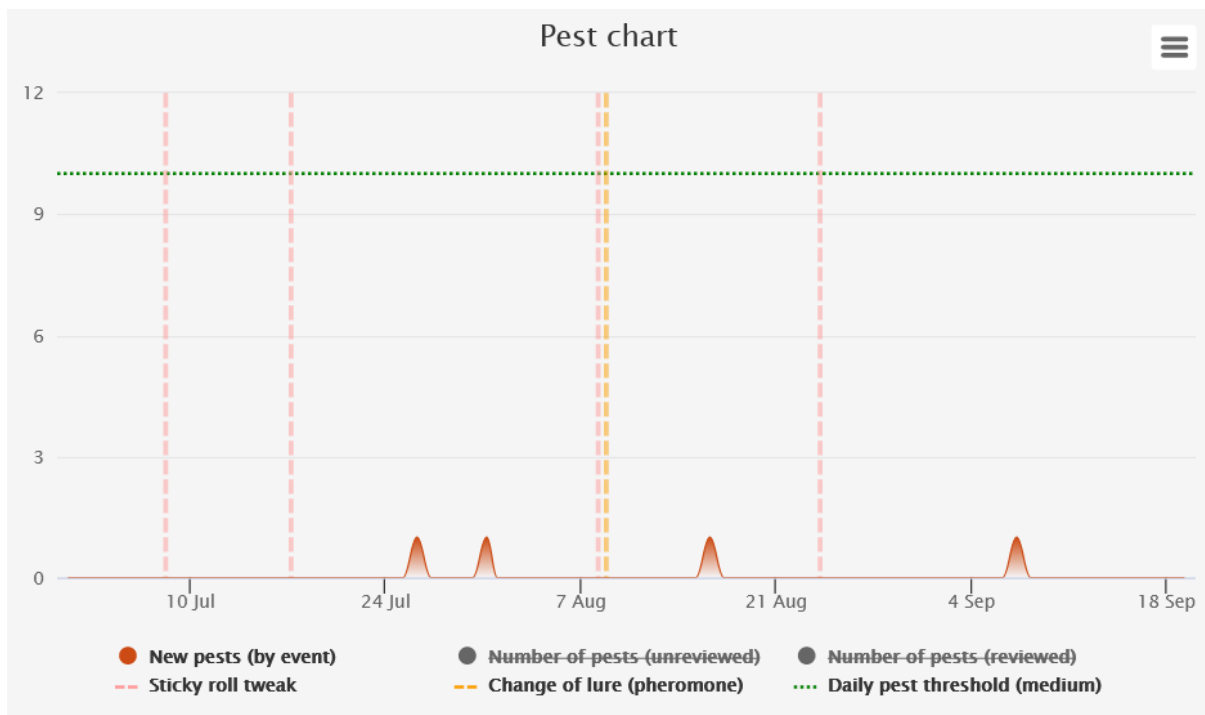
Total new pests in period: 190

CONE-NET, S06212



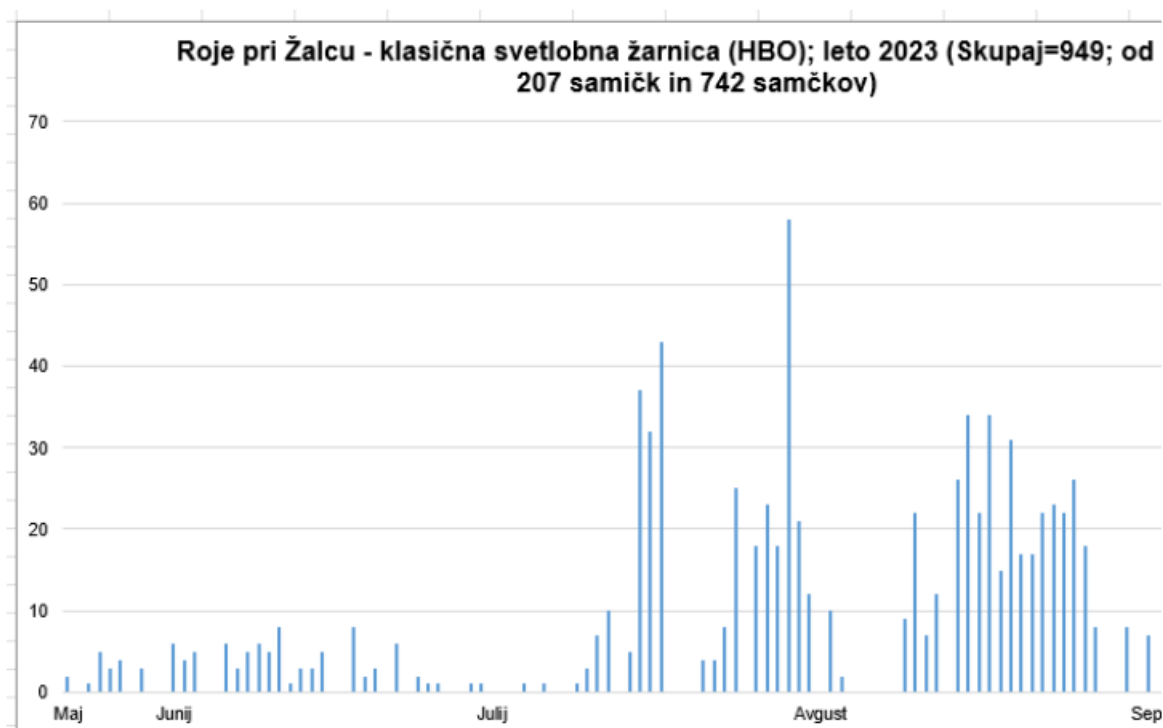
Total new pests in period: 29

CONE-NET, S06732



Total new pests in period: 4

CLASSIC LIGHT TRAP (HBO)



Total new pests in period: 949

ACCUMULATED PEST PRESSURE				
LOCATION	FUNNEL SC	VERTICAL SC	CONE-NET SC	CLASSIC LIGHT TRAP (HBO)
Zgornje Roje	58	42	4	949
			24	
			29	
			190	

In current season pheromone baits seems to worked well. It can be due to good weather conditions for moths and butterflies. Possible pheromone was well dispensed due to lower temperatures in summer and higher relative humidity.

Between the two Trapview models there were no significant difference. FUNNEL SC had slightly bigger catches in period than VERTICAL SC.

