LIGHT TRAPS FOR OSTRINIA NUBILALIS: Trapview AURA 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

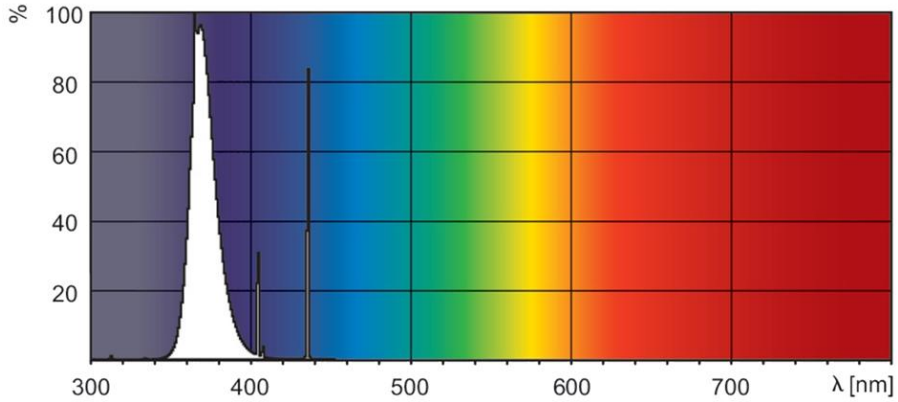
Type of traps in the experiment: Trapview AURA FUNNEL SC, conventional trap

Serial numbers of Trapview traps: S011852

Lure(s): 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: 540m

2. TRIAL CONFIGURATION

Start of experiment: 10.6.2023

End of experiment: 31.8.2023

Location(s): Jiříkovice

The location is north of Brno, South Moravia, flat fertile agriculture area, semiarid.

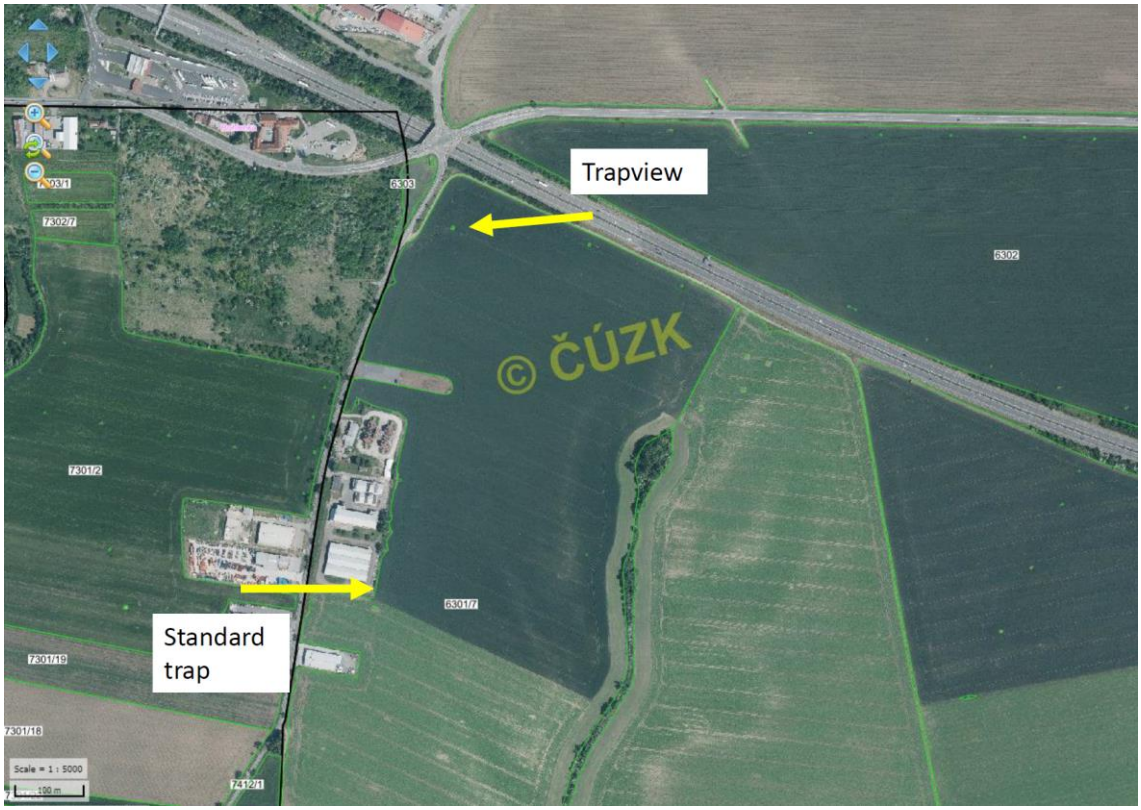
The devices were placed on the opposite sites of the about 30 ha maize field. Field was about rectangle shape, plain configuration, both traps on western corners, about comparable conditions for the traps. Last year maize field (potential source of *Ostrinia*) from north and west side, about 500 – 1000 m.

GPS coordinates:

Trapview: 49.1829047N, 16.7650358E

Standard trap: 49.1781050N, 16.7641453E

Trap location:



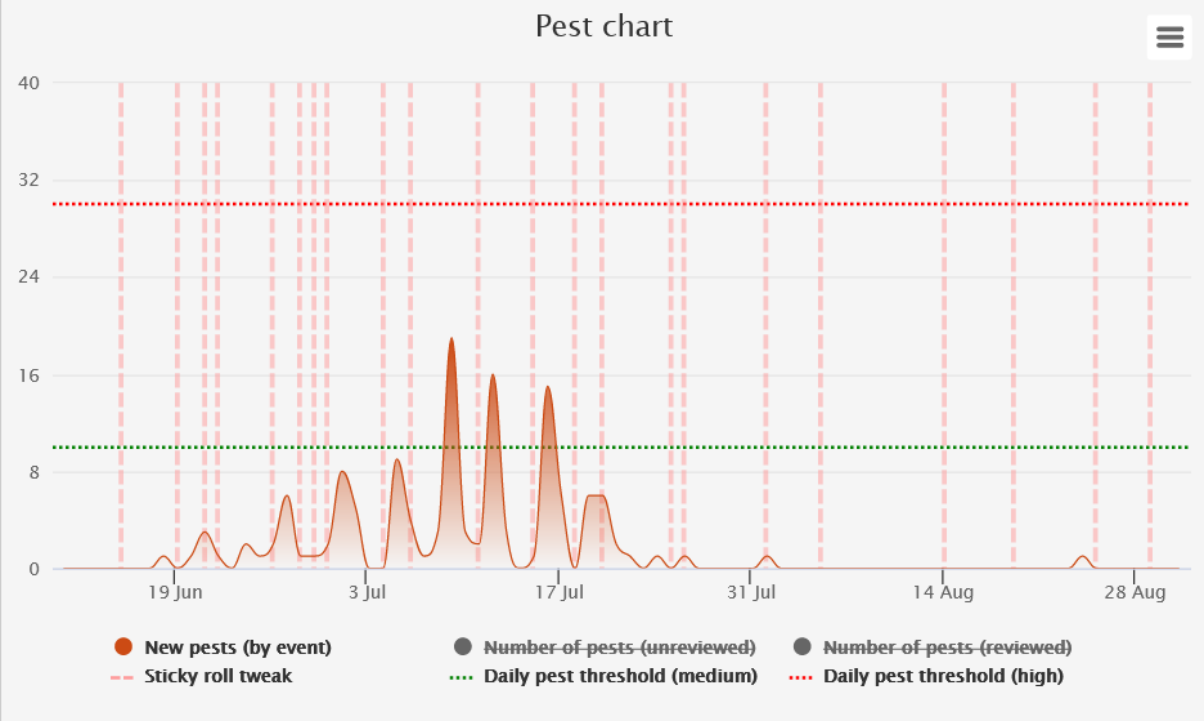
Trap installation:

3. INTERMEDIATE TRIAL OBSERVATIONS

Lights lit between 22:00 and 3:00.

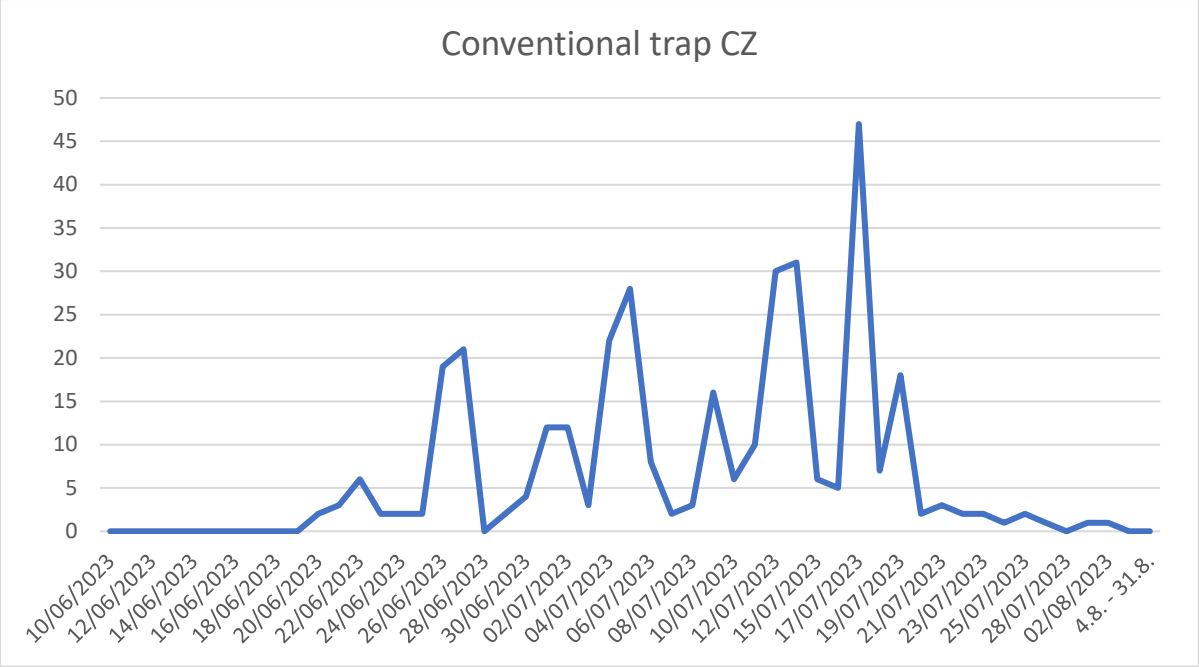
Trap was well maintained.

4. FINAL TRIAL CONCLUSIONS



Total new pests in period: 135

Type of trap is suitable for monitoring *Ostrinia nubilalis*. Catches were high so we assume that representation of moths was high in the field. Total new pests in monitoring period were 135.



Total new pests in period: 344

Results are comparable, although conventional trap had more catches. Both types of traps caught the beginning of the flight. On both traps generation flow is visible.

Based on the results FUNNEL SC type of trap is suitable for monitoring *Ostrinia nubilalis*.