

Western Bean Cutworm Pheromone Network

Compiled by: PHREC Entomology Lab

Pheromone Trap Network ¹ Report for 2020-07-18

This is a weekly summary and field risk-level prediction for western bean cutworm (WBC) infestation in dry bean. Western bean cutworms are difficult to scout effectively in dry beans. Therefore, we use pheromone traps to give us an estimate of risk of infestation. The average cumulative number of moths/field/day should be calculated from moth emergence to peak. The data in Table 1 below show the cumulative number of moths captured to date, averaged over 4 Smart Traps per field. The map on the second page will provide you a snapshot of what the WBC risk looks like on a regional basis. You can zoom in on the map on a computer to see more detail.

- If the cumulative catch at the peak of the moth flight is < 700 per trap, risk of significant damage is **low**
- If 700-1,000 moths per trap, the risk is **moderate** and additional sampling information will be needed to reach a decision
- If > 1,000 per trap, damage risk is **high**.

If an insecticide application is required, it should be applied 10-21 days after peak moth flight. Current average cumulative catch across the sample region is 27.87 total moths per trap.

¹This weekly report is the result of trapping network that is a collaboration of Jack's Beans, Trinidad-Benham, Kelley Bean, and New Alliance and was partially funded in 2020 by the Nebraska Department of Agriculture and the Nebraska Specialty Crop Block Grant Program and the Institute of Agriculture and Natural Resources at the University of Nebraska – Lincoln.

Table 1: Average Cumulative Counts of Western Bean Cutworm Per Field

Grower	Field	Catch	Risk
Busch (Kelley)	Mitchell South	15.00	low
Ensz (Jack's Beans)	Paxton	16.67	low
Meisner (New Alliance)	Solar farm	39.50	low
Peterson (New Alliance)	Gering	36.75	low
Peterson (New Alliance)	Sioux	44.75	low
Pieper (Kelley)	Hay Springs	10.25	low
Relka (Trinidad)	Rifle Sight	42.00	low
Schaneman (Trinidad)	stonegate	32.50	low
Unger (Jack's Beans)	Hays Center	18.75	low
Wurdeman (Kelley)	morrill east	22.50	low

WBC Dry Bean Survey

