Areawide Diamondback Moth Trapping Network

In response to the recent outbreaks of Diamondback moth (DBM), Plutella xylostella in Yuma, we have established a pheromone trap network in January of 2017 designed to monitor the activity and movement of adult populations of DBM. PCAs had difficulty controlling DBM in cabbage, broccoli and cauliflower last season. In the 2017-2018 season we have expanded out network to include traps placed in Texas Hill, Tacna, Roll, Wellton, Dome Valley, Gila Valley, Yuma Valley and in the Bard/Winterhaven area in locations where cole crops are presently being grown or in areas where infestations were known to occur last fall.

The data is not intended to indicate field infestations, as trap data is largely a reflection of adult movement. The data may reflect emergence of adults in adjacent fields with known infestations, or provide an indication that DBM may be moving into fields not previously infested. If nothing else, the data may make PCAs aware of increased pest activity in some areas and encourage intensified scouting in susceptible produce fields.

Historically, from 1998-2001, we established a trap network in Yuma which included DBM. Data from those studies is provided below for a historical perspective. We will continue to monitor DBM trap activity throughout the season. We will also continue to trap population activity throughout the summer to determine whether DBM is active when brassica hosts are not available. This may give us an indication of the potential for more problems on next years fall crops. From a historical perspective we ran traps during the summer of 1999-2001 in the Yuma Valley and consistently found DBM moths in traps at low levels (0-1.2 moths/trap/night from July-August). We concluded at that time that many of the DBM captured may have come in with transplants, but were not certain whether DBM is capable of over summering in the desert. We hope to gain more insight into the pest’s activity during summer moths in Yuma this year.

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Area-wide DBM Trapping Network
Yuma, Arizona

Wing Trap with DBM pheromone lure

DBM moths captured in trap
Trapping Data – by Location and Crop

North Yuma Valley

Diamondback Moths / Trap/Night

- YAC (Hope Ave)
- Co. 8 and Ave E
- Co. 8.5 and Ave F
- Co. 11 and Fortuna
- Co. 11 and Ave F 1/2
- Co. 11 and Ave F
- Co. 12 and Ave G
- Co. 13 and Ave H
- Co. 13 and Ave G
- 1st St. and Ave C

Bard/Winterhaven

Diamondback Moths / Trap/Night

- Ross Rd and Perez
- Flood and Hoppe
- Indian Rock and Horne
- Indian Rock and Picacho
- Ross Rd and Picacho
- Horne and Arnold
- Yuma and Rodenbaugh

Aug 19, Sep 2, Sep 16, Sep 30, Oct 14, Oct 28, Oct 11, Nov 25, Dec 8, Jan 7, Jan 20
**Historic DBM Trap Data – 1998-2001**

*Data show the highest moth catch among the 4 trap locations in each Valley for each year.*

Yuma Valley
- Yuma Valley 1998
- Yuma Valley 1999
- Yuma Valley 2000
- Yuma Valley 2001

Gila Valley
- Gila Valley 1998
- Gila Valley 1999
- Gila Valley 2000