

## 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 our 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.

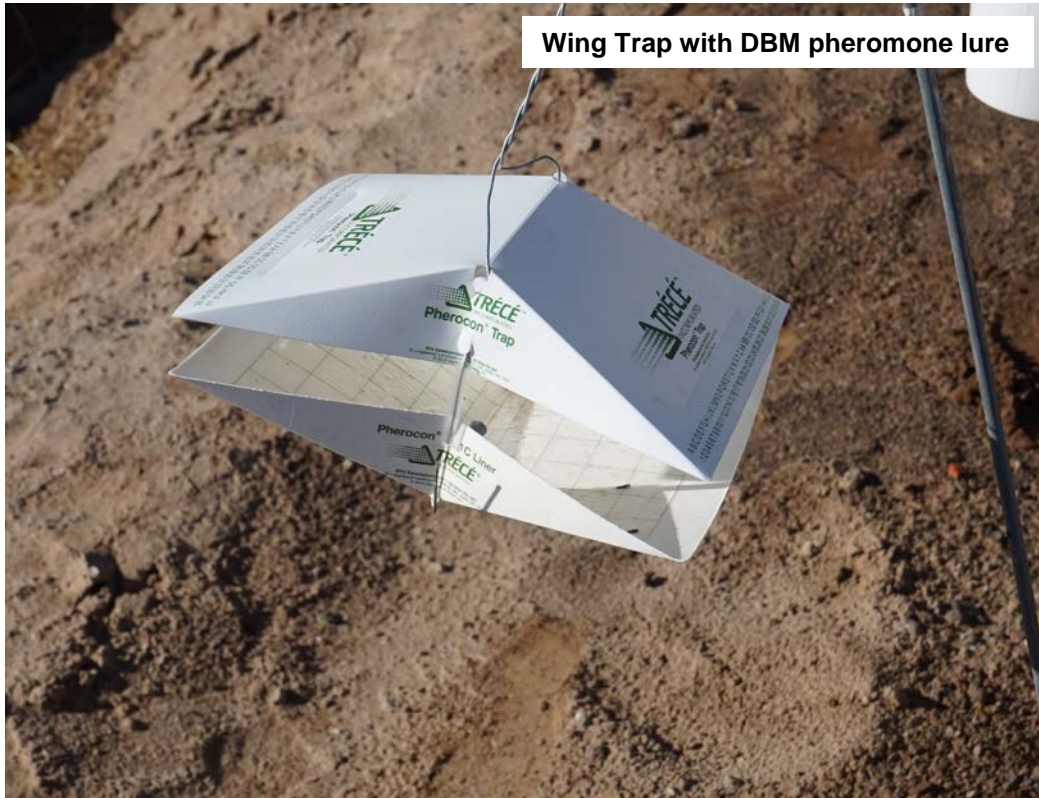
The data is not intended to indicate field infestations, as trap data is largely a reflection of adult movement. The data may reflect emergence of adults in adjacent fields with known infestations, or provide an indication that DBM may be moving into fields not previously infested. If nothing else, the 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.

This project is being funded by an Arizona Department of Agriculture, Specialty Crops Block Grant provided by the USDA Agricultural Marketing Service under the award number SCBGP-FB17-42.

# Area-wide DBM Trapping Network

## Yuma, Arizona

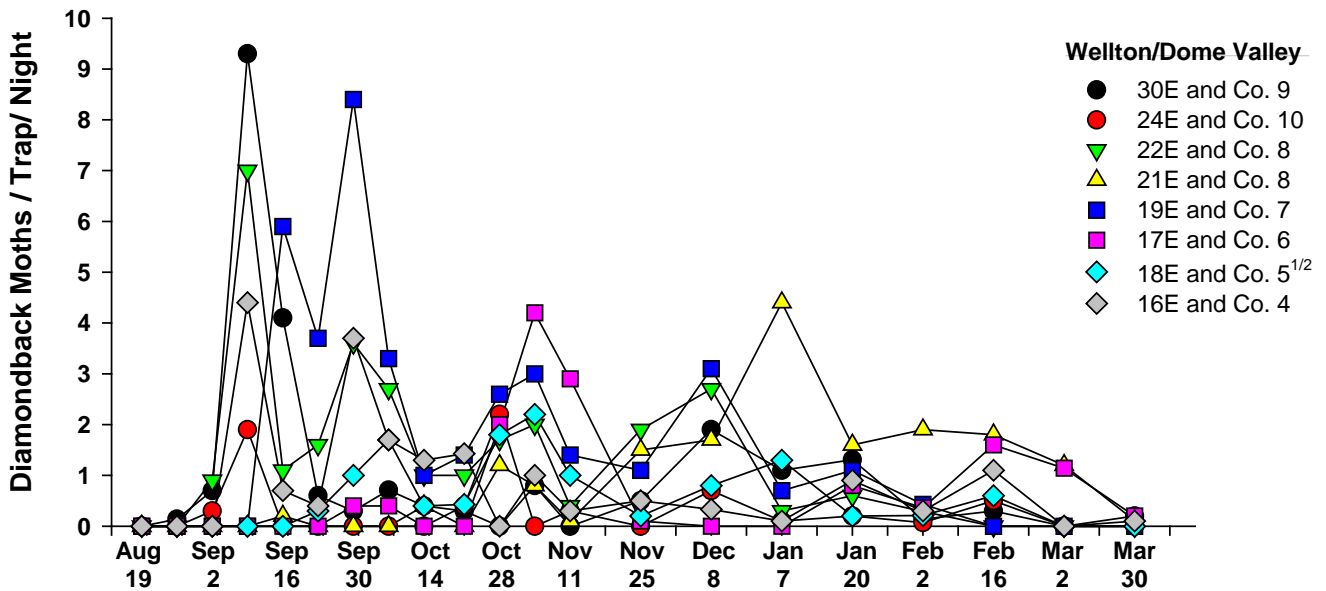
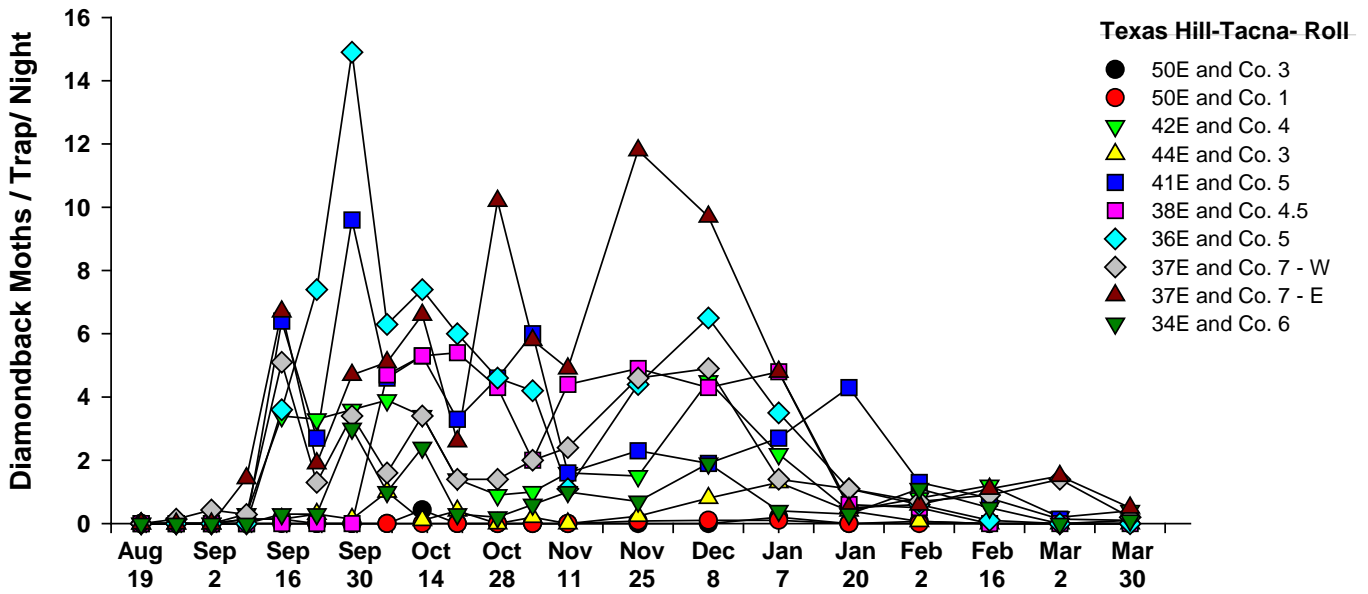


Wing Trap with DBM pheromone lure

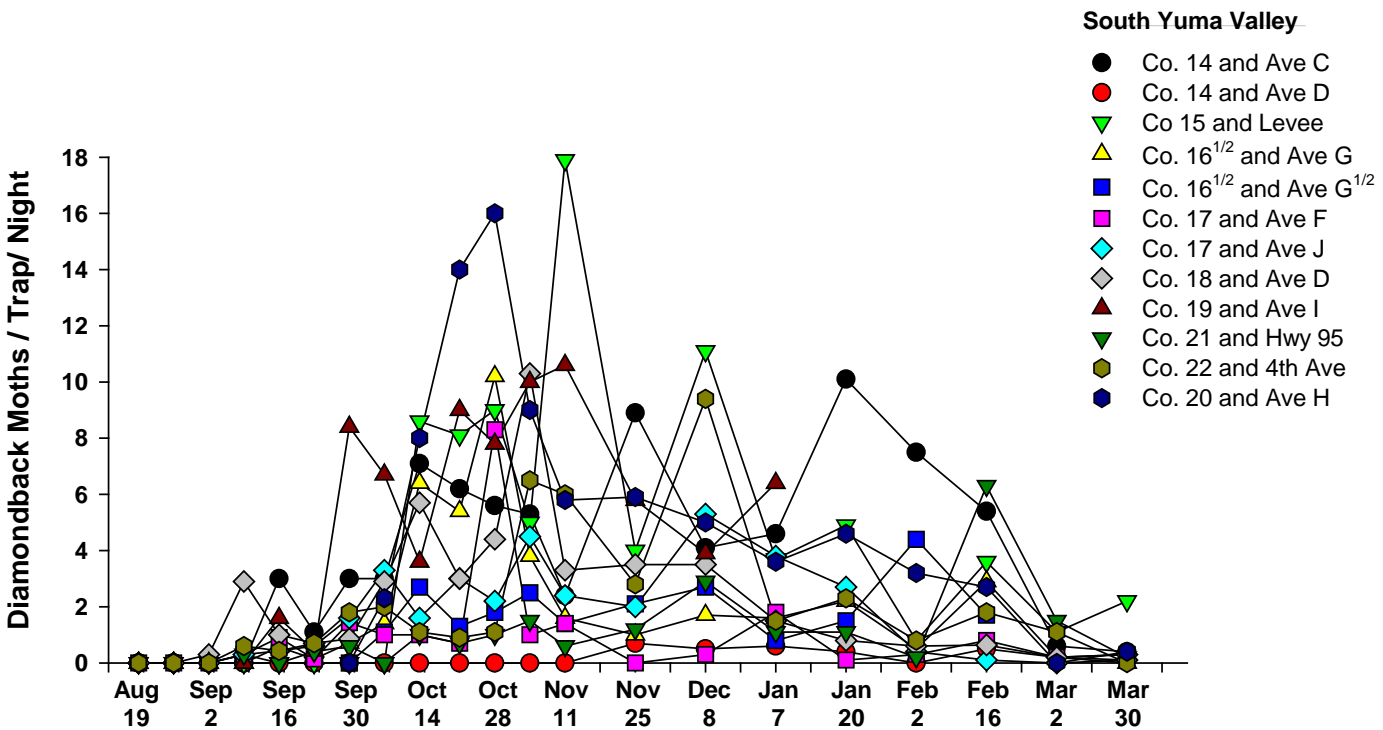
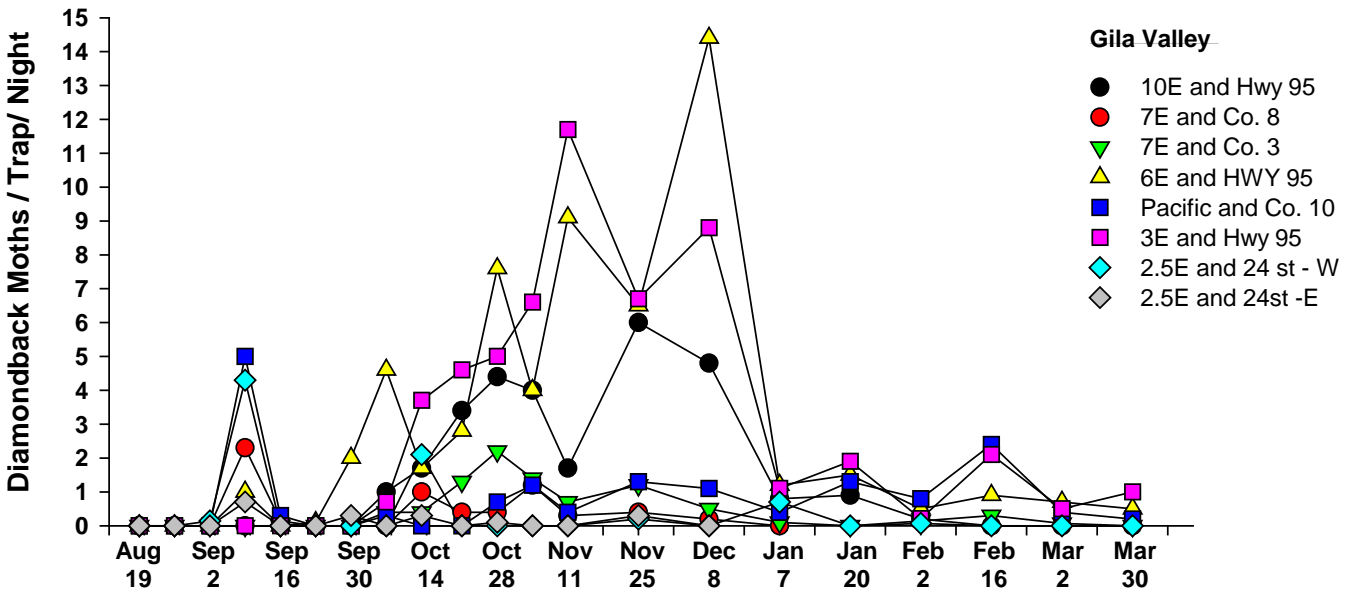


DBM moths captured in trap

# Trapping Data – by Location and Crop

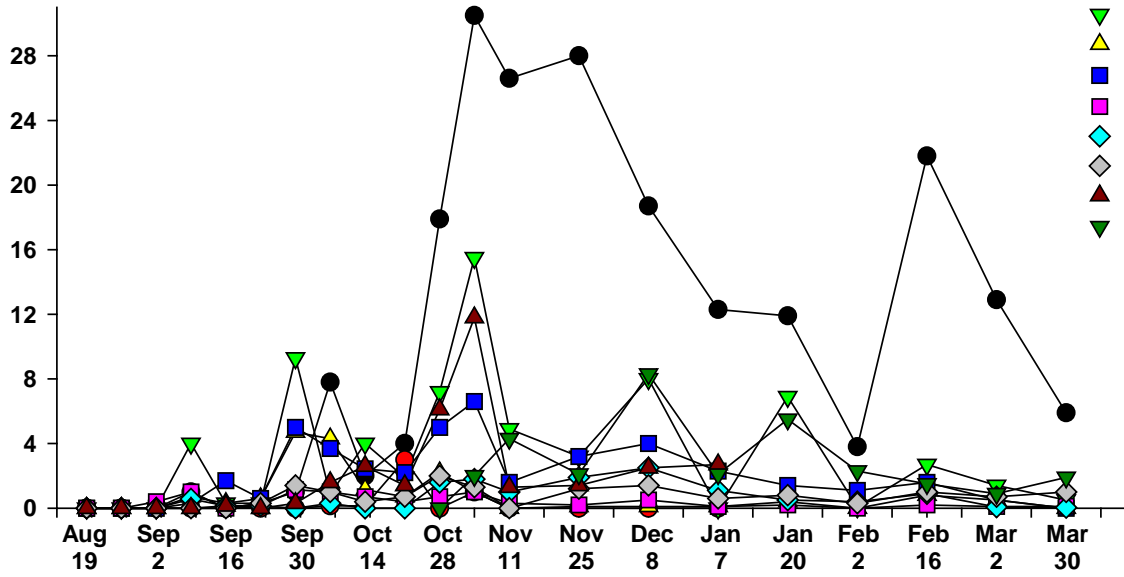


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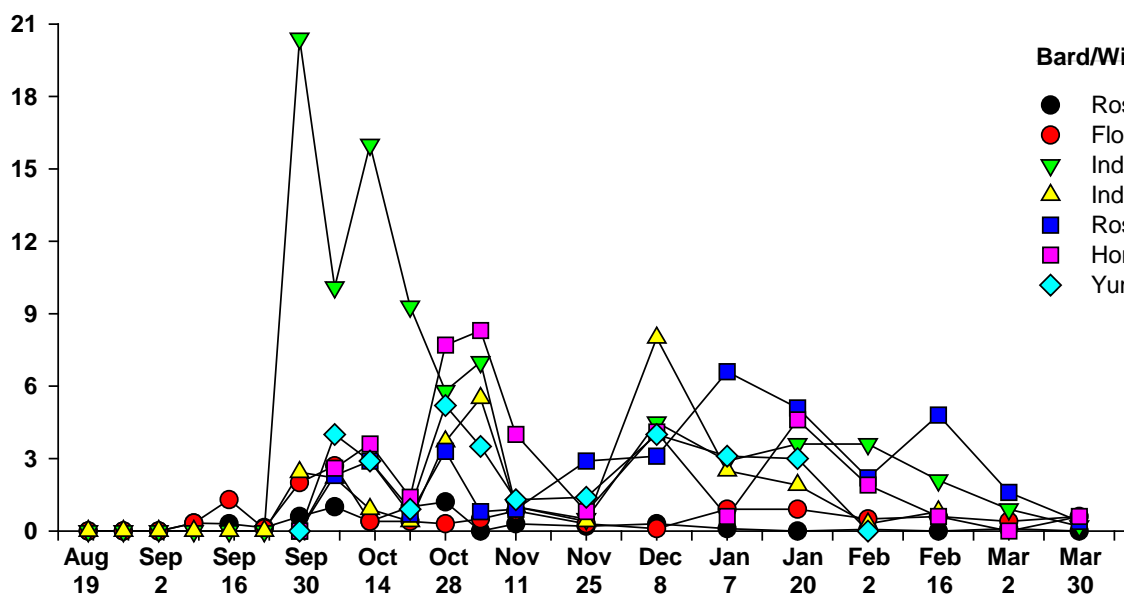
Diamondback Moths / Trap/ Night



## North Yuma Valley

- YAC (Hope Ave)
- Co. 8 and Ave E
- ▼ Co. 8.5 and Ave F
- ▲ Co. 11 and Fortuna
- Co. 11 and Ave F<sup>1/2</sup>
- Co. 11 and Ave F
- ◆ Co. 12 and Ave G
- ◇ Co. 12 and Ave H
- ▲ Co. 13 and Ave G
- ▼ 1<sup>st</sup> St. and Ave C

Diamondback Moths / Trap/ Night



## Bard/Winterhaven

- 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

## Historic DBM Trap Data – 1998-2001

