

Areawide Diamondback Moth Trapping Network

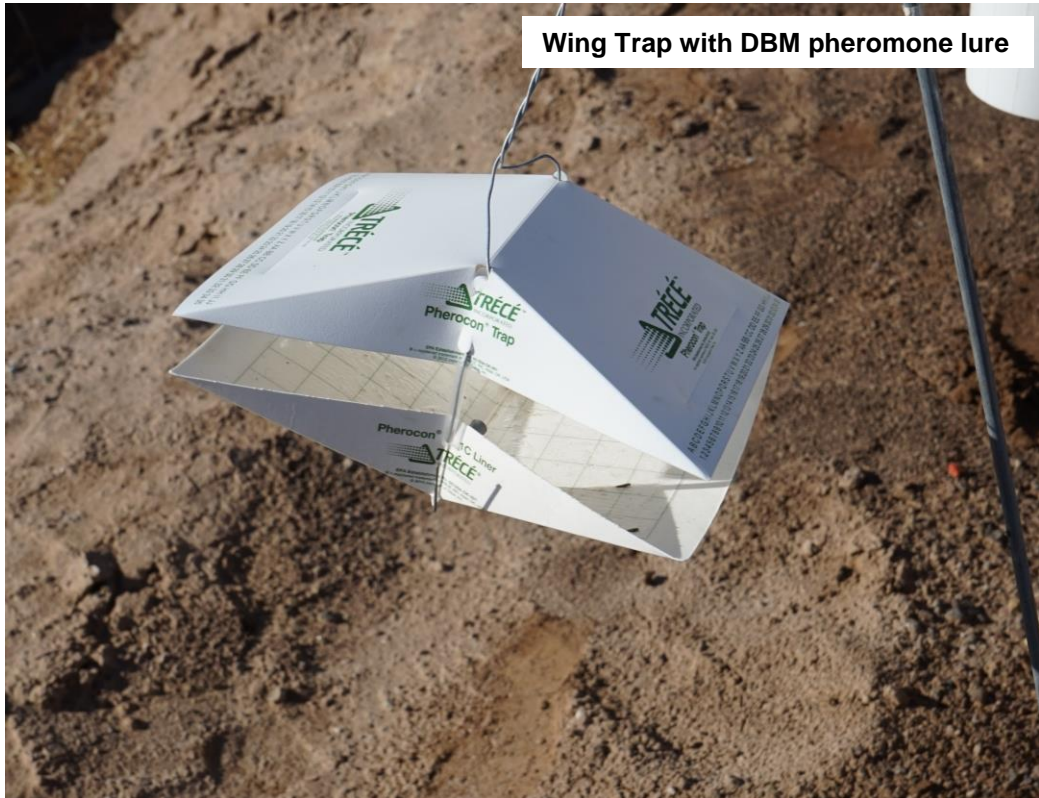
In response to the Diamondback moth (DBM), *Plutella xylostella* outbreaks in Yuma in 2016, we established a pheromone trap network designed to monitor the activity and movement of adult populations of DBM. PCAs had difficulty controlling DBM in cabbage, broccoli and cauliflower that fall. Traps were initially placed in Roll, Wellton, Dome Valley, Gila Valley and Yuma Valley in locations where cole crops were being grown or in areas where infestations were known to occur that fall. 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.

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.

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 this year's fall crops. One thing we've learned thus far based on pheromone trapping is that DBM moths are not captured during July and August; understandable since there are not sufficient *brassica* hosts for them to develop and reproduce. It is highly likely that the local populations that show up each fall are immigrants coming into the area via monsoon and other tropical storms. The exception to this would be the outbreaks we experienced in 2016 where the DBM entered fields on infested transplants. We will continue to trap and hope to gain more insight into the pest's activity in Yuma this year.

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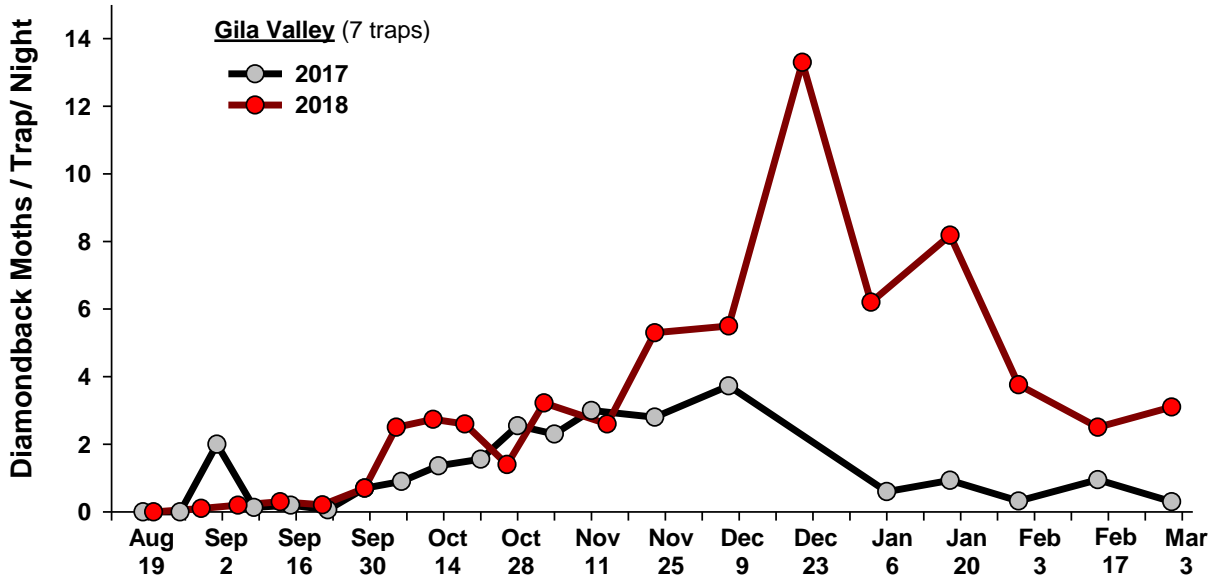
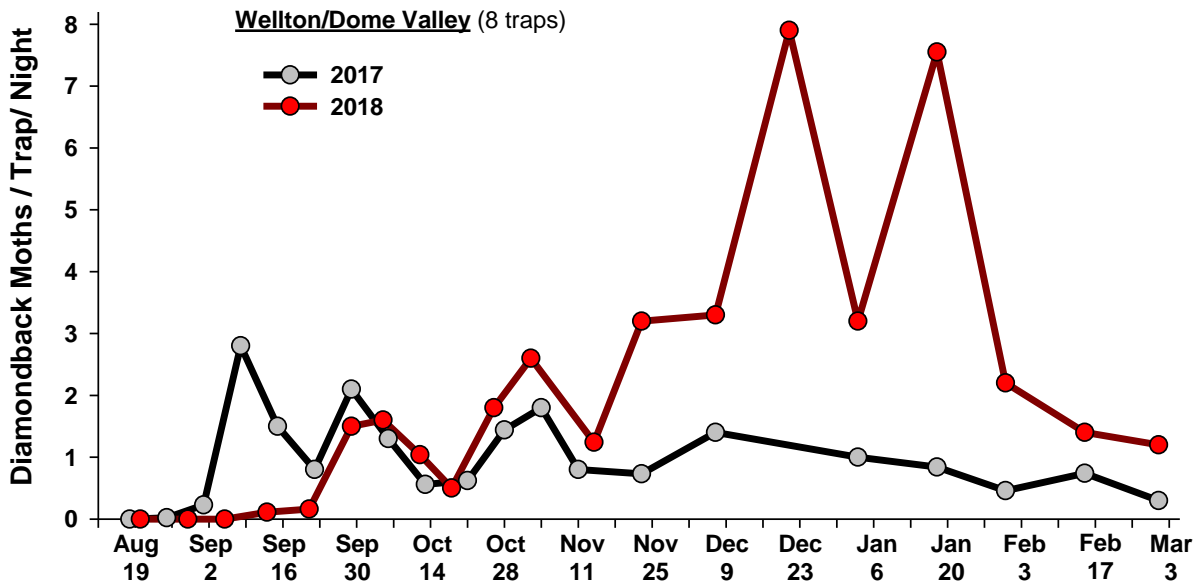
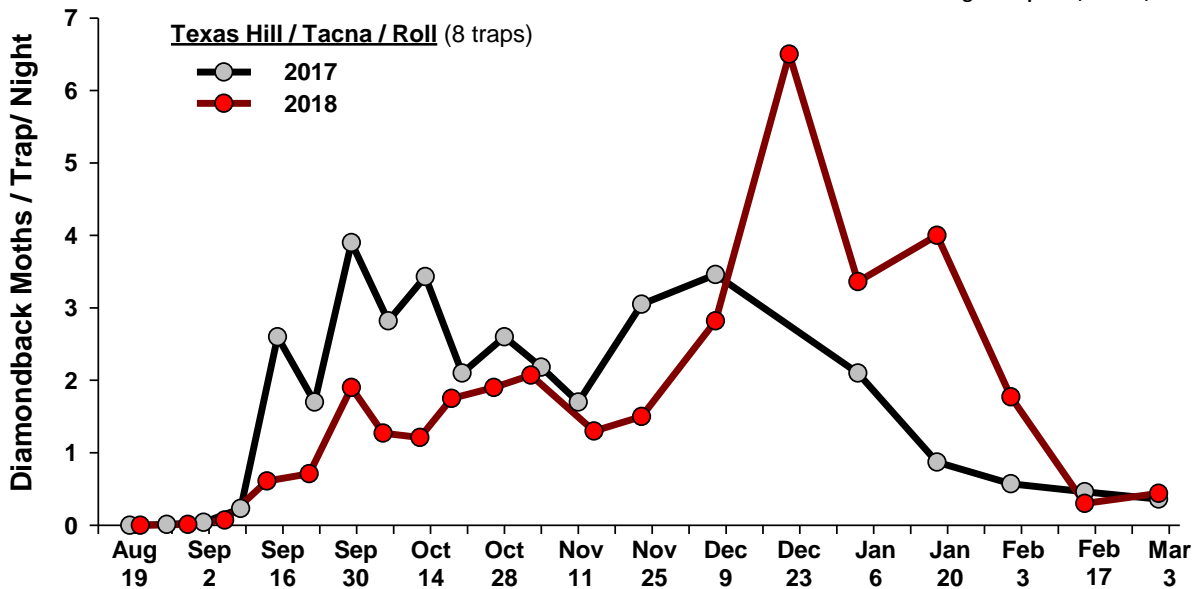
Area-wide DBM Trapping Network Yuma, Arizona

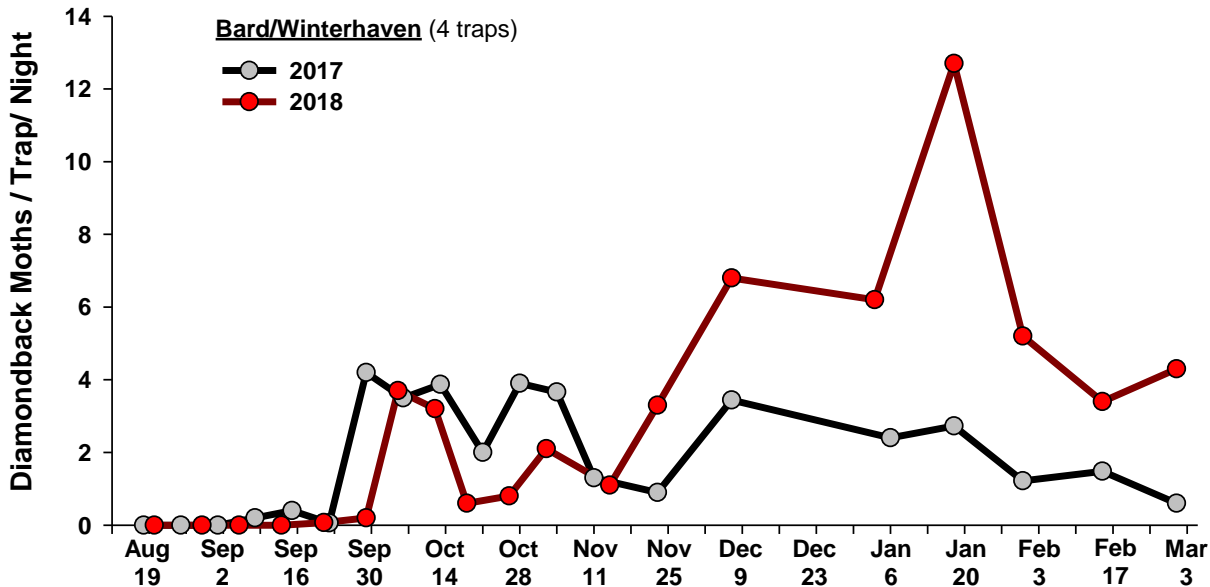
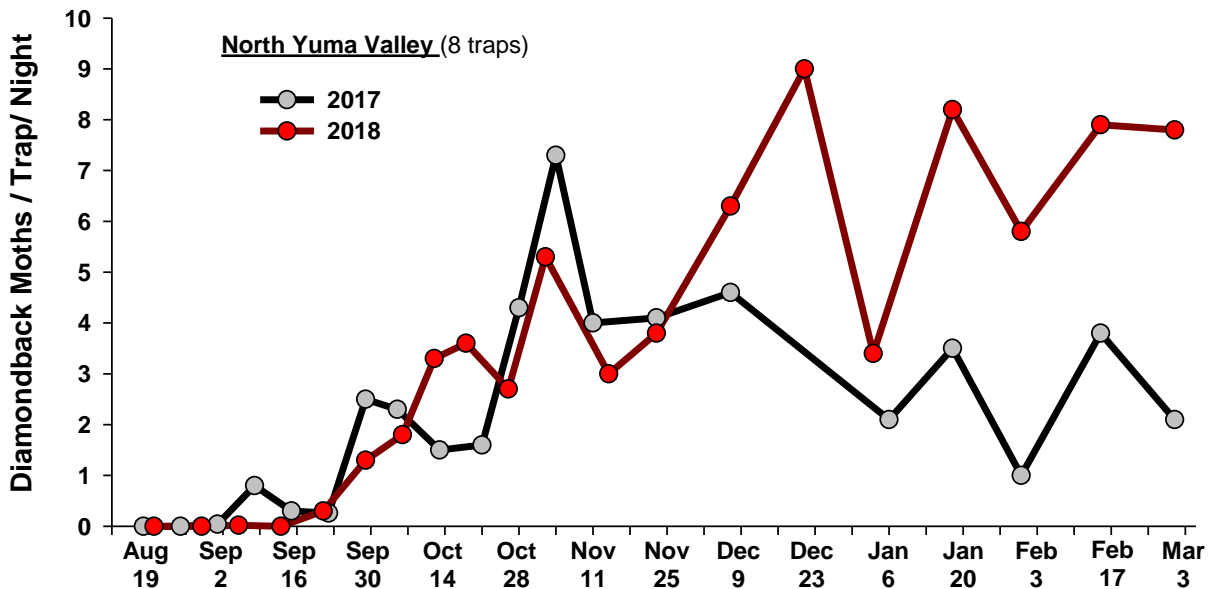
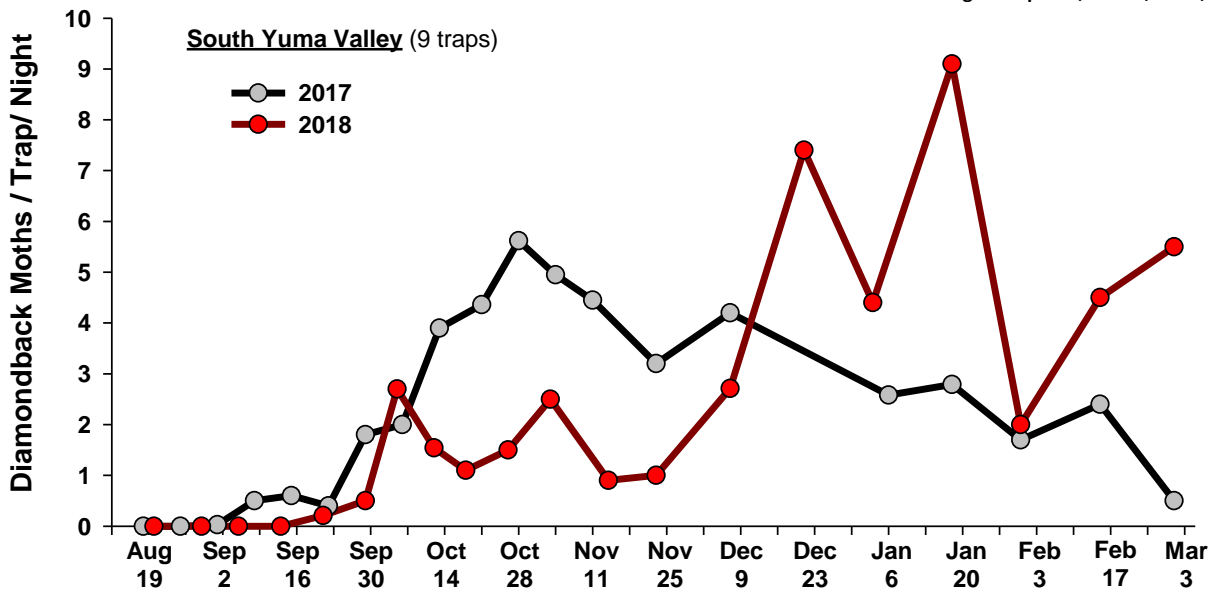


Wing Trap with DBM pheromone lure



DBM moths captured in trap





Seasonal DBM Trap Data, Yuma AZ 2017 vs. 2018 vs. 2019

