

# Lepidopterous Larvae Management in Desert Produce Crops, 2023

| Product            | IRAC <sup>1</sup><br>MOA | Beet<br>armyworm | Cabbage<br>looper | Corn<br>earworm | Diamondback<br>moth ** | Comments*  |
|--------------------|--------------------------|------------------|-------------------|-----------------|------------------------|--|
| Lannate            | 1A                       |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity; provides thrips control; PHI: 10 d on lettuce; Has activity against DBM adults      |
| Acephate           | 1B                       |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity; PHI: 21 d on head lettuce, celery; 14 d brussels sprouts and cauliflower.           |
| Dibrom             | 1B                       |                  |                   |                 |                        | Short residual product. For DBM use 2 pints / acre. Has good adult DBM activity also. PHI: 7-d on labeled cole crops.                              |
| Pyrethroids        | 3                        |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity; PHI: varies with products ; Has shown adult and larval DBM activity.                |
| Radiant/Entrust    | 5                        |                  |                   |                 |                        | Stand alone Lep, leafminer, and thrips control; PHI: 1 day on cole crops and leafy bveges ; Use rates at 5-7 oz depending on pest spectrum.        |
| Proclaim           | 6                        |                  |                   |                 |                        | Stand alone Lep control; PHI: 7 day on cole and leafy veg crops; use at rates above 3.6 oz; if cabbage looper present tank-mixe with a pyrethroid. |
| Bt (Dipel/Xentari) | 11B                      |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity, numerous Bt products available; PHI: 0 d; use rates of 1.5 lb or > for DBM          |
| Cormoran           | 15+4A                    |                  |                   |                 |                        | Tank mix with a pyrethroid for cabbage looper. Apply at 12 oz for best residual. Has whitefly adult knockdown activity. PHI: 7-d on cloe crops.    |
| Intrepid           | 18A                      |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity; PHI: 1 day; good spray coverage desirable; use 16 oz rate for DBM                   |
| Avaunt             | 22                       |                  |                   |                 |                        | Tank mix with another product for broad spectrum Lep activity; PHI: 1 day, use higher rates for best control of all Leps.                          |
| Coragen            | 28                       |                  |                   |                 |                        | Stand alone Lep and leafminer control; PHI: 1 day for Leafy veg; 3-d for cole crops. Avoid use for DBM; resistance has been detected.              |
| Exirel             | 28                       |                  |                   |                 |                        | Foliar only; Stand alone Lep, whitefly and leafminer control; PHI: 1 day for Leafy veg annd cole crops - Use at or above 15 oz for DBM.            |
| Verimark           | 28                       |                  |                   |                 |                        | Soil only; Stand alone Lep, whitefly and leafminer control; Use at 13.5 oz. for best residual effectiveness. PHI: N/A                              |
| Harvanta           | 28                       |                  |                   |                 |                        | Stand alone Lep and leafminer control; PHI: 1 day for Leafy veg annd cole crops - Use at 16.9 oz rate for DBM.                                     |
| Besiege            | 28+3                     |                  |                   |                 |                        | Stand alone Lep and leafminer control; PHI: 1 day for lettuce; 3 day for cole crops. Avoid use for DBM; resistance has been detected.              |
| Durivo             | 28+4A                    |                  |                   |                 |                        | Soil only; Stand alone Lep and leafminer control; PHI: 30 day for leafy and cole crops; Avoid use for DBM; resistance has been detected.           |
| Minecto Pro        | 28+6                     |                  |                   |                 |                        | Stand alone Lep, whitefly and leafminer control; PHI: 7 day for leafy vegetables/celery. Use 10 oz rate. Not labeled on cole crops or spinach.     |

Good residual control (7-14 d); For DBM - 7 d residual

Suppression

Poor residual control

<sup>1</sup> IRAC Mode of Action - for more infor go to - <http://www.irac-online.org/>  
 \* always consult the label before applying any of these products  
 \*\* Based on 2019-2022 research on local DBM populations