

Lepidopterous Larvae Management in Desert Produce Crops, 2021

Product	IRAC ¹ MOA	Beet armyworm	Cabbage looper	Corn earworm	Diamondback moth **	Comments*
Lannate	1A	Good	Poor	Good	Good	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	Poor	Good	Good	Good	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	Poor	Good	Good	Good	Short residual product. For DBM use 2 pints / acre. Has good adult DBM activity also. PHI: 7-d on labeled cole crops.
Pyrethroids	3	Poor	Good	Good	Good	Tank mix with another product for broad spectrum Lep activity; PHI: varies with products ; Has shown adult and larval DBM activity.
Radiant/Entrust	5	Good	Good	Good	Good	Stand alone Lep, leafminer, and thrips control; PHI: 1 day on cole crops and leafy vgeges ; Use rates at 5-7 oz depending on pest spectrum.
Proclaim	6	Good	Good	Good	Good	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	Poor	Good	Poor	Good	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	Good	Good	Good	Good	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	Good	Good	Good	Good	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	Good	Good	Good	Good	Tank mix with another product for broad spectrum Lep activity; PHI: 1 day, use higher rates for best control of all Leps.
Coragen	28	Good	Good	Good	Good	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	Good	Good	Good	Good	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	Good	Good	Good	Good	Soil only; Stand alone Lep, whitefly and leafminer control; Use at 13.5 oz. for best residual effectiveness. PHI: N/A
Harvanta	28	Good	Good	Good	Good	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	Good	Good	Good	Good	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	Good	Good	Good	Good	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	Good	Good	Good	Good	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

¹ 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 Fall 2020 and Spring 2021 research on local DBM populations