



UNIVERSITY OF
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ENY-465

EXTENSION

Institute of Food and Agricultural Sciences

Insect Management for Legumes (Beans, Peas)¹

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Table 1. Selected insecticides approved for use on insects attacking legumes.

Chemical Name	REI (hours)	Days to Harvest	Insects	Notes
Admire 2F (imidacloprid)	12	21	aphids, leafhoppers, thrips, whiteflies	Do not apply more than 0.5 lb ai per acre per year.
*Asana XL 0.66 EC (esfenvalerate)	12	3 = snap 21 = dry	beet armyworm (aids in control), cabbage looper, corn earworm, corn rootworm (adults), cowpea curculio, cucumber beetles, cutworms, European corn borer, flea beetles, grasshoppers, green cloverworm, leafhoppers, Mexican bean beetle, painted lady butterfly (larvae), pea aphid, saltmarsh caterpillar, velvetbean caterpillar	Do not feed or graze livestock on treated vines.
Azatin XL Plus (azadirachtin)	4	0	aphids, armyworms, beetles, cabbage looper, leafhoppers, leafminers, thrips, whiteflies	Insect growth regulator and feeding deterrent.
*Baythroid 2 (cyfluthrin)	12	7 - dry peas 3 - southern pea	beet armyworm (1st & 2nd instar), corn earworm, cowpea curculio, cutworms, fall armyworm (1st & 2nd instar), grasshoppers, plant bugs, potato leafhopper, southern armyworm (1st & 2nd instar), stink bugs, yellowstriped armyworm	Maximum applications for dry peas = 2, maximum for southern peas = 5. Not for use on succulent beans or peas or dry beans.

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Chemical Name	REI (hours)	Days to Harvest	Insects	Notes
Bt (<i>Bacillus thuringiensis</i>)	4 (most)	0	armyworms, beet armyworm, cabbage looper, corn earworm, cutworms, fall armyworm, garden webworm, green cloverworm, saltmarsh caterpillar, webworms, yellow-striped armyworm	
*Capture 2 EC (bifenthrin) (succulent only)	24 hours = processing 9 days = fresh market	3	aphids, armyworms, bean leaf beetle, cloverworms, corn earworm, corn rootworm adults, cucumber beetles, European corn borer, loopers, <i>Lygus</i> spp., mites, pea leaf weevil, pea weevil, plant bugs, sap beetles, stink bugs, thrips, webworms, whiteflies	Do not apply more than 12.8 ounces of product per acre per season.
Dibrom 8E (nales)	48	1	aphids, leafhoppers, loopers, <i>Lygus</i> bugs, spider mites	
Dimethoate 4EC, 2.67 (dimethoate)	48	7 - 4 EC 0 - 2.67	aphids, bean leaf beetle, grasshoppers, leafhoppers, leafminers, <i>Lygus</i> bug, Mexican bean beetle, mites	Do not feed treated vines. Highly toxic to bees.
*Di-Syston 8EC; *15 G (disulfoton)	48	planting time only-green/ 60-dry	aphids, Mexican bean beetle, mites, thrips	See label for information on possible phytotoxicity problems.
Extinguish ((S)-methoprene)	4	0	fire ants	Slow-acting IGR (insect growth regulator). Best applied early spring and fall where crop will be grown. Colonies will be reduced after three weeks and eliminated after 8 to 10 weeks. This is the only fire ant bait that is labeled for use on cropland. May be applied by ground equipment or aerially.
Kelthane MF 4 (dicofol)	12	21 - dry, green, lima	mites	No more than 2 applications per season.
Knack IGR (pyriproxyfen)	12	7	silverleaf whitefly	Section 18 expires Feb. 4, 2004 (all legume vegetables except soybeans).

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Chemical Name	REI (hours)	Days to Harvest	Insects	Notes
*Lannate LV, *SP (methomyl)	48	See label: varies with rate and crop use	aphids, beet armyworm, corn earworm, cucumber beetles, European corn borer, fall armyworms, leafhoppers, loopers, lygus bugs, Mexican bean beetle, saltmarsh caterpillar, thrips, variegated cutworm, yellowstriped armyworm	
Malathion 5EC; 8EC (malathion)	12	1	aphids, bean leaf beetle, blister beetles, cucumber beetles, leafhoppers, lygus bugs, mites, Mexican bean beetle	
*Metasystox-R 2EC (oxydemeton-methyl)	48	21	leafhoppers, mites	Lima beans only.
Mocap 10G; *15G (ethoprop)	48	at planting	symphylans	Snap and lima beans. Do not allow granules to contact seed.
M-Pede 49% EC Soap, insecticidal	12	0	aphids, leafhoppers, mites, plant bugs, thrips, whiteflies	
Neemix 4.5 (azadirachtin)	12	0	aphids, armyworms, bean leaf beetle, cabbage looper, corn earworm, cutworms, garden webworm, leafminers, loopers, soybean looper, webworms, whiteflies	Acts as IGR and feeding repellent. Does not kill adult insects.
Orthene 75S (acephate)	24	14 = snapbeans or dry beans 0 = lima beans, succulent form	aphids (excluding black bean aphid), armyworms (excluding beet armyworm), bean leaf beetle, bean leafroller, cabbage looper, corn earworm, cutworms, European corn borer, fleahoppers, grasshoppers, green cloverworm, leafhoppers, Mexican bean beetle, plant bugs (Lygus), soybean looper, thrips, whiteflies (except silverleaf or sweetpotato whiteflies)	Do not apply more than 2 lb active ingredient per acre per season.
*PennCap-M (methyl parathion)	4 days (see label)	15	aphids, cowpea curculio, cucumber beetles, European corn borer, leafhoppers, lygus bugs, Mexican bean beetle, stink bugs	For dry beans (southern peas) Begin applications when blooms are first observed.
Phaser 3EC, 50WP (endosulfan)	24	3	aphids, armyworms, bean leaf skeletonizer, cowpea curculio, cucumber beetles, cutworms, flea beetles, leafhoppers, Mexican bean beetle, stink bugs, whiteflies	Do not use on lima beans. Do not make more than 3 applications per year.

Table 1. Selected insecticides approved for use on insects attacking legumes.

Chemical Name	REI (hours)	Days to Harvest	Insects	Notes
Provado 1.6F (imidacloprid) <i>(succulent & edible podded only)</i>	12	7	aphids, leafhoppers, whiteflies	Not recommended following a soil application of Admire.
Pyrellin EC (pyrethrins + rotenone)	12	12 hours	aphids, bean leaf beetle, cucumber beetles, European corn borer, flea beetles, fleahoppers, leafhoppers, leafminers, loopers, lygus bugs, mites, plant bugs, stink bugs, thrips, whiteflies	
Sevin 80S (WP), 4F (carbaryl)	12	14 days for grazing or harvest for forage, or within 3 days of harvest of fresh beans or peas, or within 21 days of harvest of dried beans or peas, seed or hay.	armyworms, bean leaf beetle, blister beetles, corn earworm, cowpea curculio, cucumber beetles, cutworms, fall armyworm, flea beetles, garden webworm, green cloverworm, leafhoppers, Mexican bean beetle, plant bugs, stink bugs, tarnished plant bug, three-cornered alfalfa hopper, thrips, velvetbean caterpillar, webworms	
SpinTor 2 SC (spinosad)	4	3 - succulent 28 - dry	armyworms, corn earworm, European corn borer (eggs and larvae), leafminers, loopers, thrips	
Sun Spray 98.8% JMS Stylet-Oil Oil, insecticidal	4	0	aphids, leafhoppers, leafminers, mites, thrips, whiteflies	
*Temik 15G (aldicarb)	48	at planting, 90	aphids, leafhoppers, Mexican bean beetle, mites	Dry beans only. One application. Do not feed green forage hay, or straw to livestock. Do not use green pods as food for humans.
*Thimet 20 G (phorate)	48	60	aphids, leafhoppers, <i>Lygus</i> bugs, Mexican bean beetle, seedcorn maggots, thrips	At planting only. Avoid direct contact with seed.

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Chemical Name	REI (hours)	Days to Harvest	Insects	Notes
Warrior (lambda-cyhalothrin)	24	7 - edible podded and succ. shelled 21 - dried, shelled	aphids, bean leaf beetle, corn earworm, cucumber beetle adults, cutworms, fall armyworm (1st & 2nd instar), flea beetles, grasshoppers, green cloverworm, leafhoppers loopers, Mexican bean beetle, plant bugs, stink bugs, thrips, yellowstriped armyworm (1st & 2nd instar) Suppression of beetarmyworm, leafminers, lesser cornstalk borer, spider mites and whiteflies.	
<p>The pesticide information presented in this table was current with federal and state regulations at the time of revision. The user is responsible for determining the intended use is consistent with the label of the product being used. Use pesticides safely. Read and follow label instructions.</p>				
* Restricted Use Pesticide				