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IFAS EXTENSION

Summary of Peanut Insecticide Options for Florida¹

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Introduction

Management of insect pests of peanut in Florida occasionally requires the use of insecticides. This publication was prepared to provide the user with a summary of available insecticide options for the major insect pests which may be encountered. For more information on peanut insect pests, see ENY403, Insect Management in Peanuts (<http://EDIS.IFAS.UFL.EDU/IG062>) and ENY668, Identification and Monitoring of Insect Pests in Peanut (<http://EDIS.IFAS.UFL.EDU/IN176>).

Treatment Thresholds

If the average number of foliage pests or the peg-pod-root feeding pests in a field exceeds the thresholds given below, then one of the chemical treatments listed on the following tables is usually justified.

Foliage Feeders (Fall armyworms, corn earworms, beet armyworms and loopers)

- Early Season: 3-4/foot of row (before the plants meet in the middle)
- Late Season: 5-6/foot of row (after plants have completely covered the middle)

Peg-Pod Feeders (Lesser cornstalk borer, southern corn rootworm and wireworms)

- Before Pegging: 10% of the plants with larvae
- After Pegging: 15% of the plants with larvae

Treatment for cutworms is usually justified if their feeding has resulted in 20% or more foliage loss.

Restrictions

Many of the pesticides listed on the following tables have additional restrictions on the maximum number of applications per season, the frequency of application or the maximum amount of the pesticide that may be applied on the crop per season. Before using any of the pesticides listed in the following tables, be sure to read and follow all instructions and precautions listed on the pesticide labels.

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Table 1. Suggested insecticides for control of major foliage-feeding caterpillar pests of peanut. Refer to the label for special information and precautions.

Insecticide	Restricted Use	Beet Armyworm	Corn Earworm	Cutworms	Fall Armyworms	Loopers	Rednecked Peanutworm	Velvetbean Caterpillar	REI (Hrs)	Days to Harvest
		--- Amount of Formulation per Acre ---								
Asana XL (esfenvalerate)	YES	5.8-9.6 oz ¹	2.9-5.8 oz	5.8-9.6 oz	9.6 oz ¹	--	2.9-5.8 oz	2.9-5.8 oz	12	21
<i>Bacillus thuringiensis</i>	NO	--	--	--	--	See label	--	See label	See label	
Danitol 204 EC (fenpropathrin)	YES	--	10.6-16 oz	--	10.6-16 oz	--	--	--	24	14
Karate 2.08 Z (cyhalothrin)	YES	1.92 oz ²	1.28-1.92 oz	0.96-1.6 oz	1.28-1.92 oz ²	1.92 oz ¹	0.96-1.6 oz	0.96-1.6 oz	24	14
Lannate LV (methomyl)	YES	1.25-3 pt	0.75-3 pt	1.8-3 pt	0.75-1.5 pt	1.5-3 pt ²	--	1.5-3 pt	48	21
Lorsban 15G (chlorpyrifos)	NO	--	--	6.8-13.9 lb ³	--	--	--	--	24	21
Orthene 75S (acephate)	NO	--	1-1.33 lb	--	1-1.33 lb	1-1.33 lb	--	1-1.3 lb	24	14
Sevin 4F ⁴ (carbaryl)	NO	--	1-1.5 qt	2 qt	1-1.5 qt	--	1 qt	1 qt	12	14
Tracer (spinosad)	NO	2-3 oz	1.5-3 oz	--	2-3 oz	--	1.5-3 oz	1.5-3 oz	4	3

¹Suppression only.
²For small larvae.
³Apply at plant in 6-12 inch band over the row for preventative treatment; late preventative treatment may be applied at early flowering to pegging in 6-8 inch band over the row. Do not apply more than 13.3 lbs. formulation/acre/application or 26.6 lbs. per season. Refer to the label for ounces/1000 ft of row based on row spacing and band-width.
⁴Application to wet foliage during periods of high humidity may cause injury to tender foliage.
⁵Adults only.
⁶Maximum of 1 application/year. At temperatures greater than 90°F with high humidity, some leaf phytotoxicity may occur.
⁷May also be used as a dry powder "planter box" treatment at a rate of 4 oz/100 lb of seed. See label directions for mixing procedure to insure adequate seed coverage.

Table 2. Suggested insecticides for miscellaneous foliage pests of peanut. Refer to the label for special information and precautions. (Footnotes may be found at the end of Table 1.)

Insecticide	Restricted Use	Grasshoppers	Thrips	Potato Leafhopper	Three-cornered Alfalfa Hopper	Twospotted Spider Mite	Whiteflies	Whitefringed Beetle	REI (Hrs)	Days to Harvest
Asana XL (esfenvalerate)	YES	5.8-9.6 oz	--	2.9-5.8 oz	--	--	--	--	12	21
Comite II 6.5EC (propargite) ⁶	YES	--	--	--	--	2.25 pt	--	--	7 days	14
Danitol 2.4 EC (fenpropathrin)	YES	--	--	6-10.67 oz	--	10.67-16 oz	10.67-16 oz	--	24	14
Di-Syston 15G (disulfoton)	YES	--	6.7 lb	6.7 lb	6.7 lb	--	--	--	48	
Karate 2.08 Z (cyhalothrin)	YES	1.28-1.92 oz	1.28-1.92 oz	0.96-1.6 oz	1.28-1.92 oz	1.92 oz ¹	--	0.96-1.6 oz ⁵	24	14
Lannate LV (methomyl)	YES	--	1.5-3 pt	1.75-3 pt	1.5-3 pt	--	--	--	48	21
Nemacur 15G (fenamiphos)	NO	--	10-17 lb	--	--	--	--	--	24	21
Orthene 75S (acephate)	NO	0.33-0.67 lb	0.5-1 lb ⁷	1-1.33 lb	0.5-1 lb	--	11 oz	--	24	14
Sevin 4F (carbaryl) ⁴	NO	--	1qt	1 qt	1 qt	--	--	2 qt ⁵	12	14
Temik 15G (aldicarb)	YES	--	7-14 lb	--	7-14 lb	--	--	--	48	90
Thimet 20G (phorate) ¹	YES	--	5 lb	5 lb	5 lb	--	--	--	48	90

Table 3. Suggested insecticides for miscellaneous peg and pod feeding pests of peanut. Refer to the label for special information and precautions. (Footnotes may be found at the end of Table 1.)

Insecticide	Restricted Use?	Lesser Cornstalk Borer	Southern Corn Rootworm	Wireworms		REI (Hrs)	Days to Harvest
		---Amount of Formulation per Acre---					
Asana XL (<i>esfenvalerate</i>)	YES	5.8-9.6 oz ¹	--	--	--	12	21
Karate 2.08 Z (<i>cyhalothrin</i>)	YES	1.92 oz ¹	1.28-1.92 oz ⁵	--	--	24	14
Lorsban 15G (<i>chlorpyrifos</i>)	NO	6.8-13.9 lb	6.8-13.9 lb	6.8-13.9 lb		24	21
Mocap 10G (<i>ethoprop</i>)		30 lb	25 lb	--	--	48	na
Sevin 4 F (<i>carbaryl</i>)	NO	--	1.0 qt	--	--	12	14
Thimet 20G (<i>phorate</i>)	NO	--	10 lb	10 lb		48	90