

PECAN INSECT CONTROL—COMMERCIAL

Organized research on chemical control of insect pests of pecan has not been conducted in Arkansas in recent years. The information presented here was taken from recommendations in surrounding states. More detailed information may be obtained from each of our surrounding states (Oklahoma, Texas, Louisiana and Mississippi).

Pest	Material and Formulation	Amount to Use Per Acre	Remarks/Precautions	Days to Harvest	
Obscure Scale	Superior oil emulsion	3 gal	Dormant Spray After leaves fall and before buds swell.		
Phylloxera	Asana XL 0.66 EC (R)	4.8-14.5 oz	Native trees and improved varieties vary in susceptibility to phylloxera. This insect is not highly mobile, and infestations are often limited to a few trees. Treatments should be applied to those trees previously infested and those adjacent to them. Control must be initiated at bud break (April). A hand lens should be used to confirm that phylloxera are present. Marking infested trees that have galls in May will facilitate identification of potential treatment sites next year.	21	
	Centric 40 WG	2-2.5 oz		14	
	Lorsban 4 EC [®]	2-6 pt		28	
	Phaser 50% WP	1 1/2 lb/100 gal water		before shuck split	
	Provado 1.6 F	3.5-7.0 oz		7	
	Warrior 1 CS	2.56-5.12 oz		14	
	Thiodan 50% WP	1-1 1/2 lb		Do not graze or feed treated forage from pecan groves treated with Thiodan.	before shuck split
Nut Casebearer	Confirm 2 F	8-16 oz	Longer residual activity may be expected with the insect growth regulators (Confirm and Intrepid). First generation larvae are the most damaging and generally occur in May. Monitoring adults in pheromone traps and following accumulated temperature models like the Mesonet system in Oklahoma greatly facilitates timing of sprays. Sprays are warranted when 2% to 4% of the clusters are infested or damaged.	14	
	Hero	10.3 oz		21	
	Intrepid 2 F	4-8 oz		14	
	Spintor 2 SC	4-10 oz		14	
	Mustang Max 0.8 EC (R)	3.2-4.0 oz		21	
	Warrior 1 CS	2.56-5.12 oz		14	
Spittle Bug	Asana XL 0.66 EC (R)	4.8-14.5 oz	Phaser can also be used for aphids.	21	
	Malathion 5 EC	1 qt		0	
	Phaser 50% WP	1 1/2 lb/100 gal water		before shuck split	
Yellow or Black Aphids	Asana XL 0.66 EC (R)	4.8-14.5 oz	Separate applications for yellow aphids are generally not recommended. Densities should be as high as 25-30 per compound leaf, and treatment before July is strongly discouraged. Black aphids are more damaging because they inject a toxin between veins on the leaf. The damaged areas, up to 1/4 inch in diameter, turn brown and die. Treatments are recommended when there is an average of one black aphid per compound leaf. Samples should be taken from different trees throughout the orchard.	21	
	Centric 40 WG	2.5 oz		14	
	Fulfill 50 WG	4 oz		14	
	Hero	10.3 oz		21	
	Mustang Max 0.8 EC (R)	3.2-4.0 oz		21	
	Provado 1.6 F	3.5-7.0 oz		Use 8.0 oz Provado for black aphids.	7
	Warrior 1 CS	2.56-5.12 oz			14

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Pecan Weevil	Asana XL 0.66 EC (R)	4.8-14.5 oz	Pecan weevils emerge from the soil in late summer to early fall. Treatments are generally warranted in infested orchards in late August. Trapping of emerging adults is an effective method of timing treatments. The majority of weevils emerge after a heavy rain, especially on sandy soils. Multiple applications may be required. Pecans are most susceptible to injury from gel stage to shuck split.	21
	Hero	10.3 oz		21
	Imidan 50 WP	1.5 lb/100 gal water		14
	Mustang Max 0.8 EC (R)	3.2-4.0 oz		21
	Sevin 80S	2-3 lb		14
	Warrior 1 CS	2.56-5.12 oz		14
Stink Bugs Leaffooted Bugs	Mustang Max 0.8 EC (R)	3.2-4.0 oz	Stink bugs are mobile pests that build populations on many broadleaf plants. Problems are often associated with orchards next to soybean. Trap crops of peas, soybean and other legumes have been effective. The bugs must be controlled in the trap crop before they disperse to pecan. Some states recommend treatment when populations exceed one insect per 40 terminals.	21
	Warrior 1 CS	2.56-5.12 oz		14
	Imidan 70 WP	2-3 1/8 lb		14
	PennCap-M 2 EC	3-8 pt		before shuck split
Hickory Shuckworm	Asana XL 0.66 EC (R)	4.8-14 oz	Pecans are most susceptible to hickory shuckworm during the water through gel stages. Sampling is very difficult, although adults can be monitored in light traps. The insect overwinters with shucks on the ground or the tree. Early-season populations develop in phylloxera galls or hickory. Third generation moths produce the most damaging generation. Treatments are warranted at shell hardening stage in orchards with a history of infestation. Multiple applications may be required.	21
	Confirm 2F	8-16 oz		14
	Hero	10.3 oz		21
	Intrepid 2 F	4-8 oz		14
	Lorsban 4 E	2-4 pt		28
	Mustang Max 0.8 EC (R)	3.2-4.0 oz		21
	Spintor 2 SC	4-10 oz		14
	Warrior 1 CS	2.56-5.12 oz		14
Mites	Dicofol 4E	4 pt	Mites are usually more of a problem in hot, dry periods. Treat when leaf discoloration is noted and an average of 8 or more mites are found per compound leaf.	7
	Hero	10.3 oz		21
	Vendex 4L	1-2 1/2 pt		14
	Vendex 50WP	1-2 1/2 lb		14
Fall Webworm Walnut Caterpillar	Confirm 2F	8-16 oz	Apply at egg hatch.	21
	Intrepid 2F	4-8 oz		14
	Javelin WG	0.25-4.0 lb		14
	Sevin 80S	2 1/2-6 1/4 lb		May cause mite problems to increase.
	Spintor 25C	4-10 oz		Do not make applications closer than 7 days apart.

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RED IMPORTED FIRE ANTS				
ALL FIRE ANT BAITS – Apply when ants are active and soil temperature is above 60 degrees F. Do not treat if rain is anticipated within 6 hours.				
Non-Bearing Trees	Fenoxycarb (Award)	1-3 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	
	Hydramethylnon (Amdro Pro)	2-5 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	
	S - Methoprene (Extinguish)	3-5 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	
	Pyriproxyfen (Esteem)	2-4 T/mound 1.5-2 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	
	Pyridine (Distance)	1-4 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate..	
Bearing Trees	Pyriproxyfen (Esteem)	2-4 T/mound 1.5-2 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	
	S - Methoprene (Extinguish)	3-5 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. This is an IGR. Broadcast rate.	