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#13-4

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GENERAL

Overall, the orchards that I have seen have a light crop and this includes both natives and improved varieties. Some varieties within an orchard may have a good to very good crop but overall the orchard will be light. And the same story continues – we need rain. In areas that have received rain fungicides are being applied for scab control.

INSECTS

Walnut Caterpillar !!! Over the past week I have received numerous calls and emails reporting walnut caterpillar activity. Even though a crop is light and will be hard to spend money on, the foliage has to be protected!!!

The walnut caterpillar is a foliage feeder of trees in the family Juglandaceae which includes the hickories and walnuts and here in Texas this insect can have two or three generations a year. Based on developmental times, 245 frost free days looks to be an approximate dividing line between areas that could have two or three generations.

Infestations start with female moths depositing egg masses which may contain 300 – 900+ eggs on the undersides of individual leaflets of mature foliage

and it is believed that a single female will deposit only one egg mass in her life. Unlike fall webworm where egg masses can be deposited in layers and will be covered with “fuzz”, walnut caterpillar egg masses will be in one layer and free of any covering. Eggs will take approximately 10 – 12 days to mature and larval feeding will be approximately 23 days before larvae leave the tree to seek pupation sites.



Figure 1 Remains of walnut caterpillar egg mass

Walnut caterpillars feed in a colony and do not construct a web so initial infestations can be easily overlooked. Early indications of an infestation might be frass or dropping on the orchard floor or in town on sidewalks and driveways; branch terminals with missing foliage but retained leaf rachis and masses of cast skins on the tree trunk or main scaffold limbs. When the fourth instar molts, the colony molts as a group on the main trunk or a scaffold limb leaving behind a mass of cast skins. The emerging 5th and last instar larvae now feed as individuals and it is during this last instar is when most of the feeding damage occurs. Most of

the feeding damage will occur in the last 3 – 4 days and when the last instar finishes feeding larvae will leave the tree in search of pupation sites.



Figure 2 5th instar walnut caterpillar



Figure 3 Colony of walnut caterpillars

Control options:

- For homeowners - *Bt*-based insecticides and products with spinosad (ex: Green Light Lawn and Garden with Spinosad)
- For commercial producers - Intrepid, Confirm, Belt, Delegate and Altacor are preferred.
- For organic producers - Entrust, certified *Bt* insecticides, Azera and Neemix

Walnut Sphinx Caterpillar

During 2012 there was an unexplained outbreak of the walnut sphinx caterpillar, primarily in Comanche county but there were some reports from San Saba and surrounding counties.



Figure 4 Walnut sphinx caterpillar

So far this season I have seen some activity in Comanche County and some individuals in Fort Bend County. It looks like the first generations starts early in the season where it feeds on young foliage which is different from the walnut caterpillar that requires mature foliage. From last years' experience we know there will be multiple generations during the growing season so this is one we still need to watch.

Pecan nut casebearer:

Pecan nut casebearer seemed to be all over the board this season. I've seen orchards with very light infestations and some with significant loss. In orchards with light or moderate crops the second generation could be important and should be monitored. Pheromone traps can still be used and eggs can still be found around the stigma end of the nutlets, more so on the side of the nutlet rather on the stigma.

NEW INSECTICIDES FOR PECAN

In my last newsletter I listed the "new" insecticides that had been added to our insecticide search database that contained multiple active ingredients. For this newsletter I am listing those products with single active ingredients but the list is long so I am adding this list as an attachment.

The newest labeled insecticide for pecan is Closer SC from Dow AgroSciences. This insecticide is

for aphids and has an IRAC Group 4C class.

Those insecticides listed are labeled insecticides and not necessarily recommended. The list is being provided for your information only. For additional information on insecticides labeled for pecan check out the insecticide search in the tool box section at <http://pecan.ipmpipe.org>

STATE MEETINGS

June 20-21, 2013

Tri State Ark, LA, MS Pecan Conference
Vicksburg, MS

Contact: Stephen Norman @ 318-448-3139

June 27-29, 2013

Oklahoma Pecan Growers Conference
Ardmore, OK

Contact: Amanda Early @ 580-235-1875

July 14-17, 2013

**Texas Pecan Growers Annual
Conference and Trade Show
College Station, TX**

**Contact: TPGA office @
979-846-3285**

The information given herein is for educational purposes only. References to commercial products or trade names are made with the understanding that no endorsement by the Texas AgriLife Extension Service is implied.

Active Ingredient	Trade Name	Signal Word	Restricted Use	Grazing Restrictions	Preharvest Interval (PHI)	Pests
Abamectin	Abacus	Warning	Yes	No grazing	21 days	mites
	Abba	Warning	Yes	No grazing	21 days	mites
	Abba Ultra	Warning	Yes	No grazing	21 days	mites
	Zoro	Warning	Yes	No grazing	21 days	mites
Acequinocyl	Kanemite 15 SC	Caution	No	Grazing allowed	7 days	mites
Bifenthrin	Bifenture EC	Warning	Yes	No grazing	21 days	black pecan aphid, hickory shuckworm, leaffooted bugs, pecan leaf casebearer, pecan nut casebearer, pecan phylloxera, stink bugs, yellow pecan aphids
	Bisect	Caution	No	No grazing	21 days	non bearing trees for aphids
	Fanfare 2EC	Warning	Yes	No grazing	21 days	black pecan aphid, hickory shuckworm, leaffooted bugs, pecan leaf casebearer, pecan nut casebearer, pecan phylloxera, stink bugs, yellow pecan aphids
	Sniper	Warning	Yes	No grazing	21 days	black pecan aphid, hickory shuckworm, leaffooted bugs, pecan leaf casebearer, pecan nut casebearer, pecan phylloxera, stink bugs, yellow pecan aphids
Beauveria bassiana	BotaniGard ES	Caution	No	Grazing allowed	0 days	grasshoppers, pecan weevil
	Mycotrol O	Caution	No	Grazing allowed	0 days	grasshoppers, pecan weevil
Chenopodium ambrosioides	Requiem	Caution	No	(no statement)		Aphids
Chlorantraniliprole	Altacor	(no signal word)	No	Grazing allowed	10 days	hickory shuckworm, pecan nut casebearer

Active Ingredient	Trade Name	Signal Word	Restricted Use	Grazing Restrictions	Preharvest Interval (PHI)	Pests
Chlorpyrifos	Vulcan	warning	Yes	No grazing	28 days	pecan nut casebearer, fall webworm, phylloxera, black pecan aphid, hickory shuckworm, pecan leaf scorch mite, yellow pecan aphid, blackmargined pecan aphid spittle bugs
Clothianidin	Belay	Caution	No	No grazing	21 days	aphids, pecan nut casebearer, pecan weevil, hickory shuckworm, stink bugs
Chromobacterium subtsugae	Grandevo	Caution	No	Grazing allowed	0 days	fall webworm, hickory shuckworm, pecan nut casebearer, aphids, mites, pecan weevil
Dormant oil	Damoil	Caution	No	Grazing allowed		obscure scale
Fenpropathin	Danitol	Warning	Yes	No grazing	3 days	pecan nut casebearer, hickory shuckworm, green stink bug, southern green stink bug
Fenproximate	Portal	Warning	No	No grazing	14 days	pecan leaf scorch mite, 2-spotted spider mite, non-bearing trees only
Gamma-cyhalothrin	Declare	Caution	yes	No grazing	14 Days	
Imidacloprid	AmTide Imidacloprid 2F	Caution	No	No grazing	7 days	aphids, phylloxera, spittle bugs
	Couraze 4F	Cautiuon	No	No grazing	7 days	aphids, leaf hoppers, spittle bug
	Mallet 75 WSP	Caution	No	No grazing	7 days	yellow pecan aphid, blackmargined aphid, phylloxera, spittle bug
	Midash 2SC	Caution	No	No grazing	Soil applied	Aphids
	Wrangler	Caution	No	No grazing		aphids, phylloxera, spittle bugs

Active Ingredient	Trade Name	Signal Word	Restricted Use	Grazing Restrictions	Preharvest Interval (PHI)	Pests
Lambda-cyhalothrin	Lamcap	Warning	Yes	Grazing allowed	14 days	pecan bud moth, aphids, pecan leaf casebearer, pecan phylloxera, pecan nut casebearer
	Paradigm	Caution	Yes	Grazing allowed	14 days	Hickory shuckworm, pecan nut casebearer, pecan leaf casebearer, pecan weevil, aphids, spittlebug, stink bug, phylloxera
Metaflumizone	Altrevin	Caution	No		5 days	Red imported fire ants
Myrothecium verrucaria	DiTera DF	Caution	No	Grazing allowed		Microbial nematicide
Sesame oil	Sesamin EC	Non listed	No	Grazing allowed	Not stated	nematodes
Spinosad	Seduce	Caution	No	Grazing allowed	14 days	cutworms
Spiromesifen	Judo	Caution	No	No grazing	Non bearing trees only	for container drench only of nursery trees - aphids, scale crawlers, spittlebugs
Spirotetramat	Kontos	Caution	No		Non bearing trees only	for container drench only of nursery trees - aphids, scale crawlers, spittlebugs
Sulfoxaflor	Closer	Caution	No	Grazing allowed	7 days	aphids
Thiamethoxam	Flagship 25WG	Caution	No	No grazing	Non bearing trees only	aphids, leafminers