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Alfalfa Update

Alfalfa weevil populations in north central Kansas seem to be developing as expected. Fields sampled this week that had not yet been treated had greatly reduced foliage and were showing obvious signs of significant larval feeding, especially compared to fields that had been treated.
The good news is that the treated fields seem to be doing well and the untreated fields will probably only continue to be seriously impacted for about another week. Weevil populations are predominately pupae, pre-pupae, or mature larvae which should cease feeding in the next few days.
2nd and 3rd instar alfalfa weevil larvae

Mature larva in pupal webbing

Alfalfa weevil pupa
This should give the alfalfa a chance to recover. However, in untreated fields, and even fields that were treated later, after a majority of the larvae pupated, may have some adult feeding, as they may remain in fields until the 1st cutting or until temperatures start getting into the higher 80’s °F. Adults feed a little on foliage and/or may cause ‘barking’ on stems, but this usually doesn’t stress plants too much unless there are significant numbers of adults.

Very few aphids were detected, but there were a few so periodical sampling should continue to ensure that these aphid populations remain at insignificant levels.

Wheat Update

We have not heard about, or observed any wheat aphids (bird cherry-oat, greenbug, English grain) or worms (armyworms, cutworms) in the last 7-10 days.

Ash/Lilac Borer: Don’t Get “Bored-Down” By This Caterpillar Borer

The time of year has come to be thinking about dealing with the ash/lilac borer (Podosesia syringae). First, you need to understand that this is not the same insect pest as the Emerald ash borer (Agrilius planipennis), which was recently discovered (March 31, 2017) in Doniphan County (Kansas now has 7 counties under quarantine). Emerald ash borer is a wood-boring beetle whereas the ash/lilac borer is a wood-boring caterpillar. Ash/lilac borer adults are generally active from mid-April through early-May. Adults are brown, clearwing moths that resemble paper wasps (Figure 1). Peak moth activity commonly occurs from May through June; however, this depends on
temperature. Adult females lay tan-colored, oval-shaped eggs in cracks and crevices, or wounds at the base of plant stems. A single female may live approximately one week and lay up to 400 eggs. Below are the major life history parameters and management strategies affiliated with the ash/lilac borer:

* Larvae cause plant damage by creating tunnels and feeding within the bark (cambium). Moreover, larvae may bore further into the wood and feed within the sapwood and heartwood.

* Feeding by the larvae restricts the flow of water and nutrients causing shoot or branch dieback. Ash/lilac borer primarily feed near the base of plant stems creating swollen areas or cracks at the base of plants, and where major branches attach to the trunk.

* Evidence of larval feeding includes the presence of light-colored sawdust that accumulates at the base of infected trees or shrubs.

* Ash/lilac borer overwinters as a late-instar larva located in feeding tunnels or galleries.

* To determine if trees or shrubs are or have been infested with ash/lilac borers check for the presence of brown papery pupal cases that protrude from the bark (Figure 2). These are the pupal cases where adults emerged from.

* In Kansas, there is generally one generation per year.

* The way to avoid problems with ash/lilac borer is to minimize “plant stress” by properly implementing cultural practices, such as; irrigation (watering), fertility, pruning, and mulching. Stressed plants are more susceptible to attack than so called “healthy plants.” A two to three foot wide mulched area around the base of trees and shrubs prevents injury from lawn mowers and weed-trimmers. In addition, avoid pruning plants in late spring through early summer (under usual weather conditions), because this is when adults are typically present and the volatiles emitted from pruning cuts may attract adult females.

Figure 2. Pupal Cases of Ash Lilac Borer Protruding From Tree Trunk
Insecticides containing the active ingredients, permethrin or bifenthrin can be applied to the bark, at least up to six feet from the base, in order to prevent ash/lilac borer larvae from entering plants after eggs hatch. Clear-wing borer larvae crawl on the bark searching for entry points, which exposes them to insecticide residues.

Pheromone traps are commercially available for capturing adult males (Figure 3), which helps to determine when females will be laying eggs. Pheromone traps help in timing insecticide applications. Insecticide spray applications should begin seven to 10 days after capturing the first adults. Be sure to also check pheromone traps two to three times per week and record the number of newly captured adult males.

For more information regarding ash/lilac borer management contact your county or state extension specialist.

Raymond Cloyd
Insect Diagnostic Laboratory Report

http://entomology.k-state.edu/extension/diagnostician/recent-samples.html

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