For Agribusinesses, Applicators, Consultants and Extension Personnel



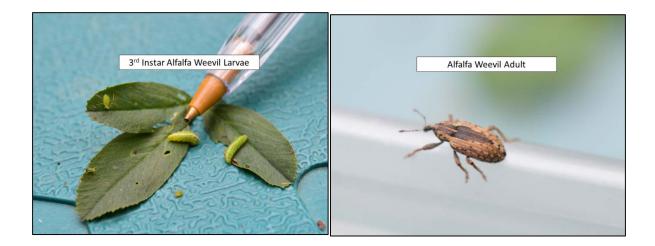
Department of Entomology 123 West Waters Hall K-State Research and Extension Manhattan, Kansas 66506 785-532-5891 http://www.entomology.ksu.edu/extension

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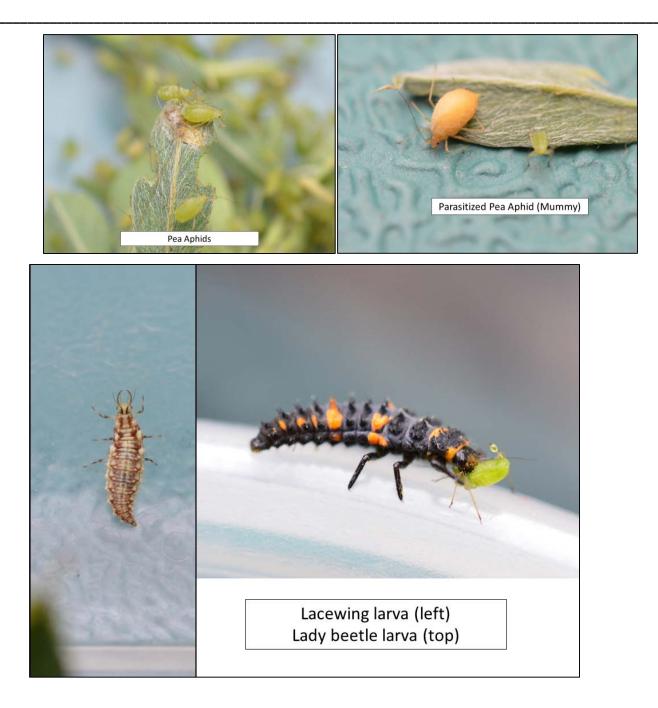
Alfalfa New Handy Bt Trait table available! Insect Diagnostic Laboratory Report

Alfalfa

Wet weather has kept equipment out of the fields and has allowed the insects to flourish. Fortunately, the plants are also doing well and tolerating these healthy populations of pests. When these fields dry out and are able to be swathed, there will probably be relatively significant populations of alfalfa weevil larvae and adults still present. They are accumulated into the windrows at cutting; they will feed on the stems under the windrows until the hay is picked up. This causes the characteristic stripping in the fields where the regrowth under the windrows is chewed off while the areas beside the windrows grow back. Once the hay is removed, the adult weevils will exit the fields and no longer be a problem. Weevil larvae in north central Kansas on 7 May were 93% 3rd instar, and 7% 1st or 2nd instar. There are many pupae and adults also.



There are significant populations of aphids, mainly pea, in these central Kanas alfalfa fields as well. Swathing will remove this problem, but there are many beneficial insects helping to regulate these aphids, and hopefully they will stay around after swathing to help manage any other aphids and/or potato leafhoppers that may show up (no leafhoppers detected yet).





Some small grasshoppers were also noted. Usually, grasshoppers do better in drier conditions, but not always. So be aware that grasshoppers are present now and eggs will continue to hatch for the next month.



Jeff Whitworth

Holly Schwarting

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New Handy Bt Trait table available!

Want to know which Bt trait is which? What pest they control? Is it herbicide tolerant? What refuge needs to planted?

The Handy Bt Trait Table from MSU has all these answer in a handy, easy to use table! This is a great resource for agents, consultants, farmers, seed dealers and anyone else who needs to know more about Bt corn traits.

Get your handy copy here: http://corn.agronomy.wisc.edu/Management/pdfs/Handy_Bt_Trait_Table.pdf

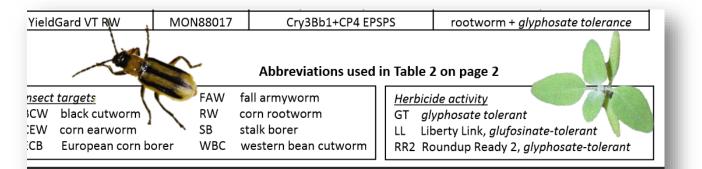


Table 2. Bt corn trait packages, with spectrum of control and refuge requirements.	(Updated Ai	oril 2015)
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Trait Family		Insects controlled or suppressed		Herbicide	Refuge %, placement	
Product	Bt protein(s)	Above-groundIn soil		tolerant?	(for the MIDWEST)	
AGRISURE						
Agrisure CB/LL/RW	Cry1Ab mCry3A	ECB CEW FAW SB	RW	LL	20% structured-adjacent	
Agrisure 3000GT	Cry1Ab mCry3A	ECB CEW FAW SB	RW	GT LL	20% structured-adjacent	
Agrisure Artesian 3011A	Cry1Ab mCry3A	ECB CEW FAW SB	RW	GT LL	20% structured-adjacent	
Agrisure Viptera 3110	Cry1Ab Vip3A	BCW CEW ECB FAW		GT LL	20% structured-½ mile	
		SB WBC				
Agrisure Viptera 3111	Cry1Ab mCry3A Vip3A	BCW CEW ECB FAW	RW	GT LL	20% structured-adjacent	
		SB WBC				
Agrisure 3122	Cry1Ab Cry1F mCry3A	BCW ECB FAW WBC	RW	GT	5% in the bag (RIB)	
E-Z Refuge	Cry34/35Ab1	CEW SB				
Agrisure Viptera 3220	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW		GT	5% in the bag (RIB)	
E-Z Refuge		SB WBC				
Agrisure Duracade 5122	Cry1Ab Cry1F	BCW CEW ECB FAW	RW	GT	5% in the bag (RIB)	
E-Z Refuge	mCry3A eCry3.1Ab	SB WBC				
Agrisure Duracade 5222	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW	RW	GT	5% in the bag (RIB)	
E-Z Refuge	mCry3A eCry3.1Ab	SB WBC				
HERCULEX						
Herculex 1 (HX1)	Cry1F	BCW ECB FAW WBC		LL	20% structured-½ mile	
		CEW				

Sarah Zukoff

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Insect Diagnostic Laboratory Report

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

Eva Zurek

Sincerely,

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Kansas State University Agricultural Experiment Station and Cooperative Extension Service

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