

scaffolds

Update on Pest Management
and Crop Development

F R U I T J O U R N A L

March 19, 2001

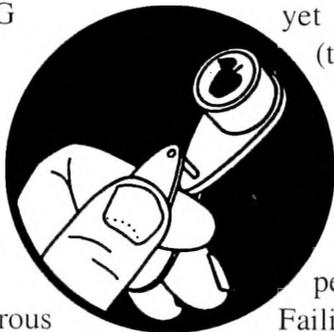
VOLUME 10, No. 1

Geneva, NY

WAITING TO SPRING

(Art Agnello, Entomology, Geneva)

CROUCHING
TIGER
BEETLE,
HIDDEN
DRAGON-
FLY



❖❖ Notwithstanding the generous covering of snow we received over the week-end, spring actually does arrive tomorrow, and with it the psychological start of this year's growing season. When I worked as a scout in Illinois, cabin fever was severe enough that the growers would jump on their tractors at the first opportunity afforded by a late-winter thaw, and then brag in the coffee shops about how much of the corn they had managed to get planted before St. Patrick's Day. Never mind that some portion of it would need re-planting after being wiped out by early spring snow or floods, it was all acceptable once the commitment had been made to start the show. Tree fruit growers fortunately don't have to worry much that vagaries of the weather will interfere with the early season growth of their crops; on the other hand, there's always the sobering fear that at any time from now on, a few days of sun and warmth could trigger an incendiary outbreak of expanding leaves, exploding ascospores, and buzzing wings. Beats boredom, doesn't it?

Mail Mantra

The mailing list for this newsletter is in some regards always changing (the addresses) and in others (the subscribers) always the same. This issue has reached you according to our chronically outdated records stating how you prefer to receive it. If the hard copy has been mailed to you even though you've just realized you haven't

yet returned the re-subscription card (though this year was going to be different), you get one or two more weeks before the law of supply and demand makes the decision for you. Rules from higher up require us to solicit an annual request from each person to maintain their subscription.

Failing the receipt of some kind of notification that you wish to continue receiving the paper version, we will eventually drop the names of former (alho' cherished) subscribers from the list. If you got the e-mail ASCII-text version last year, it's being sent to the address you last specified; if you're not receiving it, you forgot to notify us that you switched to another cyber-identity, and your copy is now bouncing around in some soulless e-limbo. Let us know of any preferred changes you wish to make in this general arrangement (to/from one form or another, address changes, start-up or stopping of subscriptions, etc.), and we will do our best to accomodate you.

continued...

IN THIS ISSUE...

GENERAL INFO

❖ Introduction to a new year of Scaffolds and a little housekeeping

CHEM NEWS

❖ Product registration status

PHENOLOGIES

UPCOMING PEST EVENTS

As before, there is a web version available from the NYSAES server, and is normally up by Tuesday or Wednesday each week, at:

<http://www.nysaes.cornell.edu/ent/scaffolds/>

I also post it to the CENET Tree Fruit Discussion Group BB, a list-serve, at:

CCE-TREE-FRUIT-L@CCE.CORNELL.EDU

As usual, we are always happy to consider contributions (particularly from N.Y. sources) in the form of articles on topics in any of the fruit crop protection or crop production areas, as well as N.Y. field observations, trap data, etc. We generally do not send the mailed version of this newsletter to growers, homeowners, or other private individuals not having some fruit extension, commercial, university or governmental affiliation, as the extension superstructure that pays our bills would rather that audience obtain this information from their local Cornell Cooperative Extension programs. There are a few exceptions, mostly for people who were "grandfathered in" before this policy became more firm, and we prefer to keep this number low. Unless things get too out of hand, the e-mail version will be sent to anyone who requests it. ❖❖

the New York State registration process has a lot of people guessing about the status of certain products that are available outside the Empire State but not here. I've taken a straw poll of the various 'label races', and offer their standings as of last week, if only to help with rumor control. (Incidentally, to answer the perennial question, the *Recommends* are at the printers, and no one is more impatient than I am for them to be available.)

- Starting first with what's already labeled:

AZA-DIRECT (azadirachtin)

Company: Gowan

Classification: Botanical

Mode of Action: Contact and ingestion activity.

Acts as a repellent, antifeedant, and by interfering with the molting process.

Targeted Pests: Plum curculio, bugs, leafhoppers, aphids, leafrollers, apple maggot, mites, thrips. Generally lower efficacy than that required by most commercial growers; may be a good option for organic production.

continued...

THE VIEW FROM HERE

PRODUCT
REGISTRATION
STATUS
(Art Agnello,
Entomology, Geneva)

❖❖ It's been an eventful fall and winter in the agrichemical industry, with changes in company names (Novartis became Syngenta, Elf Atochem became Cerexagri), ownership (BASF bought American Cyanamid, Dow AgroSciences bought Rohm & Haas, Valent Biosciences bought Abbott Labs), and personnel (too many to keep track of). On top of this, a number of new products are in various stages of being registered and other existing ones are up for label expansions. As always, the complexity of

scaffolds

is published weekly from March to September by Cornell University—NYS Agricultural Experiment Station (Geneva) and Ithaca—with the assistance of Cornell Cooperative Extension. New York field reports welcomed. Send submissions by 3 pm Monday to:

scaffolds FRUIT JOURNAL

Dept. of Entomology
NYSAES, Barton Laboratory
Geneva, NY 14456-0462

Phone: 315-787-2341 FAX: 315-787-2326
E-mail: ama4@nysaes.cornell.edu

Editors: A. Agnello, D. Kain

This newsletter available on CENET at: news://newsstand.cce.cornell.edu/cce.ag.tree-fruit
and on the World Wide Web at:
<http://www.nysaes.cornell.edu/ent/scaffolds/>

Registration Status: Valent projects NY label by July or August 2001; too late to be of use this season.

INTREPID (methoxyfenozide)

Company: Rohm & Haas

Classification: A molt accelerating compound. Related to Confirm.

Mode of Action: Initiates premature molting of lepidopterous larvae. Initially, causes larvae to stop feeding then die from starvation. Primarily active through ingestion.

Targeted Pests: Leafrollers, codling moth, oriental fruit moth.

Registration Status: Has a federal label, but DEC won't consider this product until all the registra-

tion questions about Confirm have been settled (which hasn't happened yet).

PROCLAIM (emamectin benzoate)

Company: Syngenta (Novartis)

Classification: An avermectin, related to Agri-Mek.

Mode of Action: Mostly ingestion activity, some contact efficacy. Safe to most beneficials; toxic to bees on contact, virtually safe when dried.

Targeted Pests: Lepidoptera, such as leafrollers and leafminers. Needs adjuvant (e.g., horticultural mineral oil, Dyne-Amic)

Registration Status: Federal label not expected before 2002.



UPCOMING PEST EVENTS

	<u>43°F</u>	<u>50°F</u>
Current DD accumulations (Geneva 1/1-3/19):	7.7	1.4
(Geneva 1/1-3/19/2000):	94	38
(Geneva "Normal"):	38	15
(Highland 1/1-3/19):	17.4	1.2

Coming Events:

Green fruitworm 1st catch
Pear psylla adults active
Pear psylla 1st oviposition
McIntosh at silver tip

Ranges:

41-173 9-101
2-121 0-49
25-147 1-72
56-137 17-58

DANITOL (fenprothrin)

Company: Valent Biosciences

Classification: Pyrethroid

Mode of Action: Contact activity. Toxic to many beneficial species.

Targeted Pests: Leafminers, leafhoppers, leafrollers, tarnished plant bug, aphids, plum curculio, internal leps, apple maggot, European red mite.

Registration Status: NY has a label, but limits use to 10.7 oz/acre.

• Next, registrations that are “close”:

Confirm - Special Local Need label on pome fruits anticipated again this year; as before, seasonal use would be limited to 3 applications. Currently awaiting a DEC Fish & Wildlife Section review to come back based on a study that was recently submitted by Rohm & Haas.

Pyramite - New label expansion to include stonefruit and grapes BUT Long Island will be taken off the label for all uses. Decision from DEC should be imminent.

Savey - New label will have a 28-day PHI, 3–6 oz/A use rate on apples, pears, and stone fruit. Strawberries also on label. Formulation will be a 50DF (dry flowable). DEC has all the registration information, no projected date for a decision.

[Apogee and Messenger – Word is that the DEC is working on getting these products registered in time for use this season, acting on the efforts by Herb Aldwinckle, Steve Beer, and George Lamont to provide supporting information for timely approval of the labels.]

• Finally, those that are “beyond the horizon”:

ACTARA (thiamethoxam)

Company: Syngenta (Novartis)

Classification: A thianicotinyl (neonicotinoid).

Related to Provado.

Mode of Action: Systemic insecticide with both contact and ingestion activity. Toxic to bees, slight toxicity to most beneficials, nontoxic to predatory mites.

Targeted Pests: Aphids, plum curculio, European apple sawfly, leafhoppers, mealybugs

Observations: Rapid uptake of residue from leaf surface into plant tissues. Some activity on mirids (tarnished plant bug, mullein plant bug), little on leps.

Registration Status: Federal label expected on pome fruits within the next 2 months; submission of NY package can't take place until after this occurs.

AVAUNT (indoxacarb)

Company: DuPont

Classification: Oxadiazine, a new chemical class.

Mode of Action: Stomach and contact poison.

Slight toxicity to beneficials and bees.

Targeted Pests: Plum curculio, apple maggot, leafhoppers, codling moth, oriental fruit moth.

Observations: Cross-resistance with OP's suspected in leafrollers; not active on scales or aphids; possible negative effect on *Stethorus punctum*.

Registration Status: NY data package about to be sent to DEC, who will have 6 months to rule on application. Don't expect to see it this season.

CALYPSO (thiacloprid)

Company: Bayer

Classification: chloronicotinyl (neonicotinoid), same class as Provado.

Mode of Action: Contact and stomach activity.

Minimal effect on beneficials and bees.

Targeted Pests: Plum curculio, codling moth, oriental fruit moth, leafminers, leafhoppers, apple maggot, sucking insects. Some systemic activity in plant tissue. Not active on woolly apple aphid.

Registration Status: Federal label not expected before 2002.

ESTEEEM (pyriproxyfen)

Company: Valent Biosciences

Classification: IGR, juvenile hormone analog.

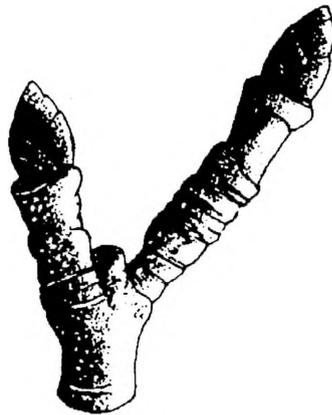
Mode of Action: Taken up by insect cuticle, interferes with molting and egg hatch and development. Safe to most beneficials and bees.

Targeted Pests: San Jose scale, pear psylla.

continued...

PHENOLOGIES

Geneva, Highland:
All dormant



PEST FOCUS

Geneva:

No pest activity. Degree day accumulation has held way below last year's extremely high value, up until this time. It is considerably below the calculated 10-year "Normal", as well, indicating we might see a slower beginning to this year's growing season. Then again...

Highland:

No pest activity.

scaffolds

Dept. of Entomology
NYS Agricultural Exp. Sta.
Barton Laboratory
Geneva, NY 14456-0462

NOTE: Every effort has been made to provide correct, complete and up-to-date pesticide recommendations. Nevertheless, changes in pesticide regulations occur constantly, and human errors are possible. These recommendations are not a substitute for pesticide labelling. Please read the label before applying any pesticide.

This material is based upon work supported by Smith Lever funds from the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.
