

IPM At Berks Workshop

days" (DD). The DD amount, which is based on the internal temperature lifecycle of an insect, can pinpoint when the best time is to apply a control.

Koehler demonstrated to the growers how to set up a pheromone trap for the coddling beetle at the hands-on portion of the workshop. The inexpensive trap provides a big advantage in an IPM strategy, according to Koehler. "The trap is always out there looking so you don't have to," he said.

The traps are good only for scouting and counting, and not for trapping out the insect pest. But Pennsylvania remains on the forefront of using a method of mating disruption using pheromone placements for the TABM. When using disruption, growers need to make sure the site is isolated from non-control areas and site-specific. And using mating disruption blocks against the red mite in Adams County plots kept population low compared to standard miticide treatments in the blocks, according to the scientist.

Setting up traps and pheromone disrupters can be labor-intensive. One of the "exciting" projects Penn State is working on is the use of techniques to put the pheromone

disrupters in a sprayable format, putting them on right from the tank.

Once growers have the information from scouting, there are "expert" systems, such as the Penn State Apple Orchard Consultant, that can be used if growers would invest in a computer.

According to Dr. Janice E. McClure, Penn State expert systems coordinator, the Consultant is available for any grower to use with a Mac computer (1 megabyte of RAM and a hard disk drive required) or an MS-DOS system (1 megabyte of RAM and a VGA monitor required). She demonstrated the latest version of the software, Ver. 6.0 (1995), at the Workshop. The cost of the software is about \$400.

The system, developed about seven years ago, allows growers to incorporate a wide variety of information on the pest or disease problem. The important thing to remember about the diagnostic tool is that much information is needed, including weather, variety, plot layout, and other factors, to make an accurate diagnosis.

Rajotte said that another tool to be available to users in June this year is the "Orchard Monitoring



A worksheet allowed them to calculate threshold levels.

Guide," a 200-page compilation of pests, disease, and other problems growers experience, and full-color plates to ID and control the problems.

Workshops in the future will focus in-depth on selected grower IPM techniques and strategies, according to Rajotte.

"IPM has a very bright future," said Rajotte. "It is not going to go away. It's here. New choices demand more information on the part of the user... and a demand for more knowledge."



Dr. Janice E. McClure



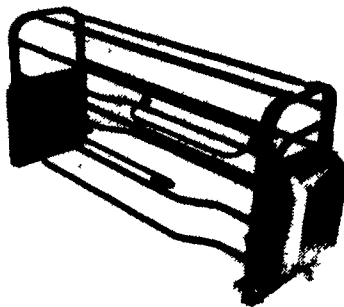
Jamie Perkins, Emanuelsville, counts simulated stethorus larvae and beetles at the workshop.



At the workshop, growers took part in pest scouting through hands-on activities at the simulated orchard.

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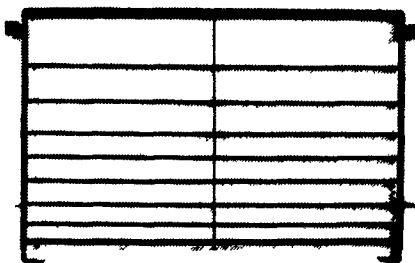
- Options:
 • Pig-Saver bar or finger bars • Black iron, hot dipped galvanized or painted • Rump guard on rear door
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Horizontal Fencing

***Pin Style**
 For the gate to open, this style pin needs to be lifted only 1/4" of the distance resulting in convenience for the operator and decrease in the amount of pins lost.

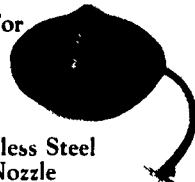
***Leg Style**
 Bolt-on - This leg adds stability and is easily fastened to floor. Can be sold separately for easy replacement. 1/4" or 1/2".

- Specifications:
 Nursery...3/8" rods in center...1/2" rods on bottom...28" high
 ...Angle 1/8" x 1" x 1" ...3/16" Vertical flats
 Grower...1/2" rods in center... 3/4" rods on bottom...32" high
 Finisher...1/2" rods in center...3/4" rods on bottom...32" high
 Breeding...1/2" rods in center...3/4" rods on bottom...44" high
 ...Angle 3/16" x 1 1/2" x 1 1/2" ...1/4" Vertical flats
 Height is measured installed from floor to top of fencing



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Nylon Swivel Union (hex, nut, hose barb)

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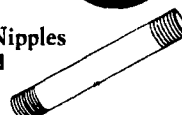


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