Lancaster Farming, Saturday, January 11, 2003, Farm Show Section-E43

2003 PENNSYLVANIA HOLSTEIN ASSOCIATION CALENDAR OF EVENTS

Beetle Pheromone Lures Both Sexes

BELTSVILLE, Md. - Agricul- sville, Md., reported their discovtural Research Service scientists have discovered a pheromone produced by male Colorado potato beetles - but attractive to both sexes - that may lead to new environmentally sound pest management methods to protect potatoes.

The Colorado potato beetle is the potato crop's most destructive pest, costing growers millions of dollars annually in crop losses and expenditures for synthetic pesticides.

The ARS scientists, led by entomologist Joseph C. Dickens with the Chemicals Affecting Insect Behavior Laboratory in Belt-

Hoober Inc.

Case IH

AgCo

Fendt Tractors

John Deere

Binkley & Hurst Bros.

10:00 - 10:45

11:00 - 11:48

12:00 - 12:45

1:00 - 1:45

2:00 - 2:45

ery in the July issue of the Journal of Experimental Biology.

The Colorado potato beetle rapidly develops resistance to synthetic pesticides, many of which are now being reevaluated by regulators. The pheromone, however, is a natural byproduct of the beetle's metabolism, so the evolution of resistance to it is unlikely. Using the pheromone as a natural chemical for luring and killing the beetles may one day lessen the amount of synthetic insecticides required for pest control.

For 75 years, scientists in the United States, Canada and Eu-

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rope have searched for scents that attract the Colorado potato beetle. The generally accepted view had been that a pheromone attractant would be found in females. Thus, the discovery of the attractant in males provides a new model for this beetle's chemical communication.

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Since 2000, Dickens has identified several scents based on chemicals in potato plants themselves. Those scents were made into the first experimental plant lures to prove effective in field tests.

Under a cooperative research and development agreement with ARS, Trece, Inc., of Salinas,

Calif., hopes to create products based on the newly discovered attractants that will exploit the insects' own communication system. New products based on the technology could include attracticides, or bait lures, formulated with small amounts of killing agents.

The scientists now will conduct more tests to determine when and how products using the pheromonebased attractant will transfer successfully from lab to field.

UARY H	11 00A M DAUPHIN COUNTY ANNUAL MEETING GEO'S FAMILY RESTAU RANT HARRISBURG PA
UARY 25	11 30A M BRADFORD COUNFY ANNUAL MEETING TROY FIRE HALL, TROY PA
UARY 25	11 45A M BUTLER COUNTY ANNUAL MEETING OLD COUNTRY BUFFFT BUTLER PA
UARY 25	7 00P M HUNTINGDON COUNTY ANNUAL MFETING BETHEL CHURCH PETERSBURG PA
UARY 25	7 30P M CLARION/VENANGO ANNUAL MEETING WOLF 5 DEN RESTAURANT KNOX PA
RUARY 7-9	PENNSYI VANIA JUNIOR HOI STEIN CONVENTION HOLIDAY INN, BETHLEHEM PA
RUARY 19-21	PENNSYLVANIA HOLSTEIN CONVENTION HOLIDAY INN, BETHLEHEM PA
RUARY 20	90 TH ANNUAL MEETING PA HOLSTEIN ASSOCIATION HOLIDAY INN, BETHLEHEM PA
RUARY 20	7 00P M PA HOLSTEIN CONVENTION SALE HOLIDAY INN, BETHLEHEM PA
CH 7	7 00P M SOMERSET COUNTY ANNUAL MEETING BERLIN FIRE HALL BERLIN PA
RCH 17	7 15P M BLAIR COUNTY ANNUAL MEETING WILLIAMSBURG FARM SHOW GROUNDS, WILLIAMSBURG, PA
RCH 28	9 30A M PA HOLSTEIN SPRING SHOW FARM SHOW BUILDING, HARRISBURG, PA
IL 11	7 00PM M WESTERN PA SPRING SPECTACULAR SALE MERCER COUNTY 4-11 PARK, MERCER, PA
IL 25	11 00A M PA HOLSTEIN HEIFER SALE PA HOLSTEIN FARM, MIDDLETOWN, PA
ť 26	10 00A M SOUTHWEST CHAMPIONSHIP SHOW FAIRGROUNDS, UNIONTOWN, PA
UST 9	9 30A M SOUTH-CENTRAL CHAMPIONSHIP SHOW FAIRGROUNDS, SHIPPENSBURG, PA
UST 16	11 00A M WARREN COUNTY HOLSTEIN SALE FAIRGROUNDS, PITTSFIELD, PA
EMBER 23	9 00A M PA FALL CHAMPIONSHIP SHOW FARM SHOW BUILDING, HARRISBURG PA
EMBER 24	7 00P M EASTERN ELITE SALE FARM SHOW BUILDING, HARRISBURG PA

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Gehl 730 Telehandle with Bale "Push-Off"

New Case IH 1200 12-Row Pivoting Planter

10:00 - 10:45	New Holland High Moisture Balage - Use, Benefits to Opera		New Holland y, Storage,	
11:00 - 11:45	AgCo Fendt Tractors	AgCo Fendt Tractors	AgCo Fendt Tractors	
1:00 - 1:45	John DeereJohn DeereJohn DeereTomorrow's Technology Has Arrived Today – Hear about the technology that is available to help your productivity and profitability. New IVT Transmissions, GPS applications Catch a glimpse of the Operatorless Tractor!			
2:00 - 2:45	Hoober Inc. New Case IH AFX – Axia	Hoober Inc. al Flow Combines for 2	Hoober Inc. 003/2004	
SMALL ROOM	Myria, Jam. MR	Teretta Jun 34	Mail, Sut. 15	
10:00 - 10:45	Blue Seal Feeds Rabbit – Dairy Goat – S	Blue Seal Feeds Sheep Nutrition	Blue Seal Fee	
11:00 - 11:45	Sollenberger Silo New innovations in Fee elevated floors so feed		Tower silo with	
1:00 - 1:45	NSIA, Inc. Using computers on yo financial management		NSIA, Inc. ng, record keeping,	
2:00 - 2:45	Iron Solutions Determining used farm guides, using the inter- equipment at local and	net to gather trade-in p	ricing and locate	



Visit us at the

PA FARM SHOW New Main Expo Hall



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