

**NORTHWEST JERSEY**  
***PRODUCTION NEWS***

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June 1, 2011

**Sprayer Setup and Calibration Meeting for Commercial Growers**  
**How to Save Dollars**

Sponsored by Rutgers Cooperative Extension and NJAES

**Thursday, June 9, 2011**

**Rutgers Snyder Research and Extension Farm, Pittstown, NJ**

**12:15 p.m. - 4:30 p.m.**

*Program*

12:15 – Registration and Luncheon

Lunch - Courtesy of GrowMark FS, Bloomsbury, NJ – **Pre-registration required**

[bloomsbury@growmarkfs.com](mailto:bloomsbury@growmarkfs.com)

12:45 – LUNCHEON PROGRAM- Update on NJ Crop Insurance and Brown Marmorated Stink Bug

Dave Lee, Salem County and Win Cowgill, Hunterdon County, Rutgers NJAES

1:00 – Welcome and Introductions

1:05 – Sprayer Tune-up, Nozzles - Particle Size- How to Get Good Coverage and Control and Avoid Drift Issues

Dr. John Grande, Director Rutgers Snyder Farm

1:25 – Application Techniques and Phil Brown Weed Sprayer Setup for Improved Weed Control and (Crop) Safety

Dr. Brad Majek, Specialist in Weed Science, Cooperative Extension

1:45 – Move Outside for Hands on Sprayer Demos

1:55 – Phil Brown Weed Sprayer Setup, Calibration and Demo

Dr. Brad Majek

2:15 – 3:45 Special Hands on Program Session for Air blast Sprayer Setup

Guest Speaker, Jon Clements, Extension Educator, University of Massachusetts

Topics to be covered:

We will directly measure the 3 components of air blast sprayer output/calibration using a sprayer ‘test bench’:

Tractor speed

Sprayer pressure

Sprayer nozzle output

In addition, we will use a vertical patterner to evaluate spray pattern and nozzle output.



We will discuss and demonstrate using air-induction (AI) nozzles to reduce drift and an electronic spray controller to automatically adjust sprayer output if tractor speed, sprayer pressure, and/or row spacing/tree row volume change. Equipment funded by a grant from US EPA Region 1 Strategic Ag Initiative

3:45 Demonstration of Rears Airblast Sprayer Comparing New Air Induction Nozzles vs Standard Cone Nozzles - using Surround™ Kaolin Clay. We will demo and observe different spray patterns on big and small trees. Using Surround is one of the best methods to observe your sprayer coverage  
Win Cowgill, Dr. John Grande and Jon Clements

4:15 Fertilizer Demonstration and Calibration of a Homemade Gandy Spreader for Band Applying Fertilizer to Dwarf Trees

PESTICIDE RECERTIFICATION CREDITS will be awarded at the end of the program (approx. 6 core credits)

Pre-registration required. Deadline – June 7, 2011. Contact Diana Boesch at 908-788-1339 or email [boesch@njaes.rutgers.edu](mailto:boesch@njaes.rutgers.edu)

For program questions contact Win Cowgill at 908-788-1339 or [cowgill@njaes.rutgers.edu](mailto:cowgill@njaes.rutgers.edu)

#### **DIRECTIONS TO SNYDER RESEARCH AND EXTENSION FARM**

**140 Locust Grove Road, Pittstown, NJ 08867**

**<http://snyderfarm.rutgers.edu>**

**FROM NORTH - Take I-78 to Exit 15. Turn left (South) at bottom of ramp (Rt. 513/Pittstown Rd). Go 4 miles into Pittstown - Do not turn on Rt. 513 or 579. Stay right for 1.5 mile on Pittstown Rd. (Rt. 615). Turn left on Locust Grove Rd. Farm on left.**

**FROM SOUTH (Trenton Area) - Take Rt. 202 & 31 North to Flemington traffic circle. Take Rt. 12 West at circle. Go 8 miles to Pittstown Road (airport sign). Turn north (right) and go 3.5 miles to Locust Grove Road. Turn right. Farm on left**

**Speakers sponsored by Helena Chemical. Wayne Knerr [[KnerrW@helenachemical.com](mailto:KnerrW@helenachemical.com)] and Mike Green [[greenm@helenachemical.com](mailto:greenm@helenachemical.com)]**

#### **Speaker Bios-**

**Jon Clements** is an Extension Educator at UMass in Amherst specializing in tree fruit. Although horticulture is his primary expertise, Jon is also well versed in integrated pest management and targeted spray application. He is co-founder of the AppleCrop Discussion ListServ and the VirtualOrchard.net website.

**Dr John Grande** is Director of the Rutgers Snyder Farm. He is a Weed Scientist by training and worked in research and development and as a Technical Service Rep. for 13 years for several Ag Chemical Companies. He is an expert on pesticide application and delivery systems.

**Win Cowgill** is an Area Fruit Agent with Rutgers Cooperative Extension for the past 33 years and has extensive orchard trials at the Rutgers Snyder Farm.

**Dr. Brad Majek** is a Professor and Extension Weed Specialist with Rutgers Cooperative Extension. He is one of the leading Tree Fruit Weed Specialists in the US.