



**Cornell University**  
 Cooperative Extension  
 Eastern New York Commercial Horticulture



5.5 DEC Credits  
 Available

# Effective Orchard Spraying

**Tuesday March 15th, 2016**

**9AM—3:15PM**

**Hudson Valley Lab, 3357 Us Highway 9W, Highland, NY 12528**

Through this full-day day course on Effective Orchard Spraying growers will learn how to improve their timeliness and therefore apply sprays when needed and not be forever chasing the calendar. Correct application at the correct time will allow growers to make better use of their spray over the season.

**Presenter: Andrew Landers**

**Pesticide application technology specialist, Cornell University**

This in-depth training course on better spray application techniques will:

- Improve your knowledge of spraying techniques leading to better deposition and less drift
- Improve your timeliness of application resulting in better disease and insect control
- Reduce off-target drift keeping you within the law
- Show you how to modernize your existing sprayer
- Inform you of new developments in sprayer design keeping you up-to-date
- Help you potentially reduce pesticide use thus improving your profitability.

***Pre-Registration is Required - Registration fee is \$15 (lunch included)***

**Deadline: Tuesday, March 8th—Register soon, space is limited!**

**Registration Options:**

On-line: <http://enych.cce.cornell.edu> OR

Mail: Send your registration form (below) to ENYCHP, CCE Rensselaer County, Agriculture & Life Science Bldg., 61 State Street, Troy NY 12180 OR call (518) 272-4210

**For more information please contact: Dan Donahue at (845) 691-7117 or [djd13@cornell.edu](mailto:djd13@cornell.edu)**

**Effective Orchard Spraying — Registration Form**

**Send Your Registration Form To:** ENYCHP, CCE Rensselaer County, Agriculture & Life Sciences Bldg., 61 State Street, Troy, NY 12180.

**Make checks payable to “CCE ENYCHP”**

**This event is \$15.00**

**# of Participants \_\_\_\_\_ x \$15.00 = Total \_\_\_\_\_**

Name (s) \_\_\_\_\_

Business Name \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Phone (in case of cancellation) \_\_\_\_\_ E-mail \_\_\_\_\_

*Building Strong and Vibrant New York Communities*

Diversity and Inclusion are a part of Cornell University’s heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

Serving the Educational and Research Needs of the Commercial Small Fruit, Vegetable and Tree Fruit Industries in Albany, Clinton, Columbia, Dutchess, Essex, Fulton, Greene, Montgomery, Orange, Rensselaer, Saratoga, Schoharie, Schenectady, Ulster, Warren and Washington Counties

# EFFECTIVE ORCHARD SPRAYING

## Agenda

- 8:30**            **Sign In**
- 9:00 – 9:15**    Introductions, course overview/aims/objectives
- 9:15 – 10:15**   **Session 1 Sprayer designs**  
The different types of orchard sprayer, single row to multi row – their relative merits  
Designs: ancient and modern, introduction to droplets, how they form, effect of size
- 10.15**           **Break**
- 10:30 - 11:30**   **Session 2 Droplets and Nozzles**  
Droplet formation and Nozzle selection: flat fan: F,M,C, and hollow cone, What's new in design
- 11:30 -12:00**   **Session 3 Calibration**  
Calibration of air blast sprayers and boom sprayers – use of You Tube, distance learning courses
- 12:00 – 12:45**   **Lunch**
- 12:45 -1:45**    **Session 4 Airflow characteristics**  
What is the purpose of the air/ how to modify it to improve deposition and reduce drift  
Drift and how to reduce it – air induction nozzles and other systems
- 1:45-2:30**      **Session 5 Effective sprayer management**  
Maximizing sprayer output, improving logistics  
Getting the best from the spraying system  
Filling and mixing , decontamination after use
- 2:30 – 3:00**    **Session 6 Precision spraying**  
The future of canopy sensors to monitor density, tree row volume and spray used.
- 3:00-3:15**      **Q&A , Wrap Up**
- 3:15**            **Course Ends**