



# Effective Orchard Spraying

22 March 2016

8:45am-3:15pm

Orleans County CCE Education Center, 12690 Rt 31, Albion, NY 14411

5.25 DEC credits available

Growers attending this full day event presented by Andrew Landers will understand 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. Registration fee is \$15 to cover lunch, breaks, facilities, and other costs of programs. **Pre-register by March 18<sup>th</sup>** as space is limited. DEC credits will be available for full day participation. Register online at <https://lof.cce.cornell.edu> or by mail using the registration form below.

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.

## Effective Orchard Spraying Registration Form:

Please pre-register by Friday, March 18<sup>nd</sup> due to limited space!

Send registration form and **check payable to "CCE"** to Kim Hazel, at 12690 NYS Rt.31, Albion, NY 14411 or contact her by phone, 798-4265 ext. 26 or by email at [krh5@cornell.edu](mailto:krh5@cornell.edu)

Registration fee is \$15 to cover lunch, breaks, facilities, and other costs of programs.

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

Farm/Business \_\_\_\_\_

Address \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_

Number Attending \_\_\_\_\_ X \$15 = \_\_\_\_\_ submitted (CHECK PAYABLE TO CCE)

Names Attending \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Building Strong and Vibrant New York Communities*

# EFFECTIVE ORCHARD SPRAYING

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Albion, NY 14411

## Agenda

- 8:30am**      **Course registration starts**
- 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 airblast 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 pm **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 pm        **Course ends**