BOOKS


Book chapters


RESEARCH

A. Research publications (Reports, academic conference papers):


Landers, A.J. (2010). Developments towards an automatic precision sprayer for fruit crop canopies. Presented at the 2010 ASABE Annual International Meeting, Pittsburgh PA, Paper No. 1008973, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659

Zhou, J. and Landers, A.J. (2010). Choosing the optimal trace, sampling method and dosage adjustment for pesticide application in vineyards. Presented at the 2010 ASABE Annual International Meeting, Pittsburgh PA, Paper No. 1009040, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659
Muise, B. and **Landers, A.J. (2010)**. The development of a fruit canopy sprayer compatible with an autonomous tractor. Presented at the 2010 ASABE Annual International Meeting, Pittsburgh PA, Paper No. 1008964, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659

Larzelere, W. and **Landers, A.J. (2010)**. Development of a spray monitoring system for a vineyard canopy sprayer. Presented at the 2010 ASABE Annual International Meeting, Pittsburgh PA, Paper No. 1009012, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659


**Landers, A.J. (2008)** Technologies for the Precise Application of Pesticides into Orchards and Vineyards. Presented at the 2008 ASABE Annual International Meeting, Providence RI, Paper No. 08-100-1, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659

Landers, A.J. (2008) Improving the quality of pesticides application in fruit crops- Part 2: Extension – seeing is believing. Presented at the 2008 ASABE Annual International Meeting, Providence RI, Paper No. 08-200-6, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659

Landers, A.J. (2008) Seeing is believing-enhancing the Pygmalion effect. Presented at the 2008 ASABE Annual International Meeting, Providence RI, Paper No. 08-223-1, ASABE, 2950 Niles Road, St Joseph, MI 49085-9659


http://www.nysaes.cornell.edu/pubs/vitcon/


http://www.nysaes.cornell.edu/pubs/vitcon/


Landers, A.J. (2006) Putting the spray onto the target – the development and demonstration of a vineyard patternator for growers to reduce their spray bill by 30%. Research report to NY IPM, December 2006


Landers, A.J. (1995) Muck '95 Seminar 'From waste to resource' The Agricultural Engineer 50 (2) 31


EXTENSION

A. Extension publications


http://www.nysipm.cornell.edu/organic_guide


http://www.nysaes.cornell.edu/recommends/


http://www.nysipm.cornell.edu/organic_guide

http://www.nysipm.cornell.edu/organic_guide

http://www.nysipm.cornell.edu/organic_guide


Available as an electronic version at:
http://www.nysaes.cornell.edu/recommends/

Also available as an electronic version at:
http://www.nysaes.cornell.edu/ent/treefruit/


Available as an electronic version at:
http://www.nysaes.cornell.edu/recommends/

Also available as an electronic version at:
http://www.nysaes.cornell.edu/ent/treefruit/


Cornell University Crop Recommendations for farmers/growers


Available as an electronic version at:
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http://www.nysaes.cornell.edu/recommends/

Also available as an electronic version at:
http://www.nysaes.cornell.edu/ent/treefruit/

Also available as an electronic version at:
http://lenewa.netsync.net/public/Guidelines%202003/Home.htm

Available as an electronic version at:
http://www.nysaes.cornell.edu/recommends/

Also available as an electronic version at:
http://www.nysaes.cornell.edu/ent/treefruit/

Available as an electronic version at: http://www.nysaes.cornell.edu/recommends/


**Bulletins/fact sheets**


Air Blast Sprayer Calibration

Air Inclusion Nozzles

Boom Sprayer Calibration

Decontaminating And Storing Crop Sprayers

Demonstration of Shielded Boom And Controlled Droplet Sprayers

Development of A Direct Injection Sprayer For Turf-Grass

Engineering Controls – solutions for safer spraying
Knapsack Sprayers – General Guidelines For Use

Machinery Selection - Crop Sprayers for Orchards and Vineyards

Modern Technology to Improve Spraying Efficiency

New Spray Technology can reduce Pesticide Application Costs

Pesticide Application Equipment - Notes For Beyond the Big Apple Tour

Pesticide Storage Building

Precision Agriculture – Toys For The Boys Or Serious Farming Tool

Preparing The Crop Sprayer For Work

Preparing The Orchard Sprayer For Work

Spray Drift Management

Solutions for safer spraying.

Turfgrass Sprayer Preparation

Understanding Droplets: the key to fine tuning your sprayer

Use Of Direct Injection Sprayers For Precision Agriculture

**Web sites:**

Main Pesticide application technology website:
http://www.nysaes.cornell.edu/ent/faculty/landers/pestapp

Equipment Calibration website (with Keith Waldron and Mary Woodsen, NY IPM):
Module 13 boom sprayer calibration
http://www.nysaes.cornell.edu/ipmnet/sare.mod/index.html

Internet: You Tube videos

http://www.youtube.com/watch?v=QW7MOuEHP48&feature=channel_page

http://www.youtube.com/watch?v=_mAB41soyxE&feature=channel_page

   Calibration of Airblast Sprayers for Orchards Part 1 Selecting and Changing Nozzles US version
http://www.youtube.com/watch?v=6izHj0GF1rY&feature=channel_page

Calibration of Airblast sprayers for vineyards-Part 1-selecting and changing nozzles Metric version http://www.youtube.com/watch?v=D0dNhPVdxPQ&feature=channel_page


Distance learning courses

- Nozzle Selection & Calibration in Orchard Canopy Sprayers
  DEC # NY-12-32655
- Nozzle Selection & Calibration in Vineyard Canopy Sprayers
  DEC # NY-12-32656
Both course obtainable from:- http://pmepcourses.cce.cornell.edu/catalog.php?category=3

Electronic media


Newsletter articles


Landers, A.J. (2001) Fine tune your boom sprayer for the coming season. Lake Erie vineyard notes #5, May 18th


Landers, A.J. (2001) Preparing the airblast sprayer for work. Healthy Fruit Volume 9, Issue 2. UMass Extension, University of Massachusetts, Amherst, Ma


Landers, A.J. (1999) Preparing the crop sprayer for work. Dairy and field crops digest. April, pp6-7


Trade journals


B. Extension Outreach: Grower conferences/seminars/ workshop presentations


Landers, A.J. (2011) Advancos na Tecnologia de Aplicacao de Fungicidas em Pomares e Vinhedos – lecture with handouts, Proterra Growers meeting, 18th August, Vacaria, Brazil


Landers, A.J. (2011) Vineyard Spraying. Course and presentation handouts, Niagara College Students, 7th July, Niagara on the Lake
Landers, A.J. (2011) Vineyard Spraying. Course and presentation handouts, Cornell University Graduate Student Course, 30th June, Geneva, NY


Landers, A.J. (2011) Twilight meeting- Seeing is Believing. UV light kit materials, Lake Erie Grape Growers at Millitellos, 26th May, Fredonia, NY


Landers, A.J. (2011) Spraying on Target. Presentation handouts, Ontario and Yates Co. Farmers, 8th March, Benton Center, NY


Landers, A.J. (2011) The Devil is in the Detail: A Detailed View of Sprayer Adjustment. Presentation handouts, NY Apple Fruit School, 18th January, Orleans Co. NY.


Landers, A.J. (2011) Improving Spray Deposition 2 –Getting Sprays on Target. Conference proceedings, Southeast Regional Fruit and Vegetable Conference- Peaches, 7th January, Savannah, GA.

Landers, A.J. (2011) Improving Spray Deposition 1 – The role of Droplets and Air. Conference proceedings, Southeast Regional Fruit and Vegetable Conference- Peaches, 7th January, Savannah, GA.


Landers, A.J. (2010) Application Technology Research at Cornell University. Presentation materials, North East Ag and Bio Engineers Conference (NABEC), 19th July, NYSAES Geneva,


Landers, A.J. (2010) Autonomous Spraying- Results to Date. Presentation materials, SCRI Fruit and industry Meeting, 11th May, Lake Alfred, FL


Landers, A.J. (2010) Recent Developments in Application Technology to Improve Deposition. Presentation handout, ESA- eastern section, 9th March, Annapolis, Maryland


Landers, A.J. (2009) Sprays on Target. Presentation handouts, National Engineering Research Center for IT in Agriculture, 22nd October, Beijing China


Landers, A.J. (2009) Effective Orchard Spraying Course. Course notes and handouts, Apple Growers, 14th April, Maine


Landers, A.J. (2009) Sprays on Target. Presentation handouts, Blowers Ag Pesticide Meeting, 1st April, Benton Centre New York


Landers, A.J. (2008) Effective vineyard spraying course NYFVI#5. In handouts and course notes: Grape Growers, 16th April, Riverhead


Landers, A.J. (2007) Following the money – keeping control of your canopy sprays. In field booklet: Cornell University fruit field day 125 years, 25th July, Geneva, NY


Landers, A.J. (2000) Sprayer technology-how can we make the most of it. In Proc: NYSTA equipment managers, November 15, Syracuse, NY.


