Agenda

- Personnel Updates
- PSA: More than you might know
- Training Metrics
- Policy Updates & Reminders
- FDA Updates
- Website & Online Course Updates
- New & Updated Educational Materials
- Funding & Future Outlook
Southwest:
Donna Clements, M.S.

Midwest:
Don Stoeckel, Ph.D.
Laura Acuña-Maldonado, Ph.D.
Michele Humiston
Rob Way

Northeast:
Betsy Bihn, Ph.D.
Gretchen Wall, M.S.

Southeast:
Kristin Woods, Ph.D.

Produce Safety Alliance Team
We Will Miss You, Kristin!
PSA Will Be Hiring!

- Replacing Kristin in the Southeast
- Hiring another Spanish Extension Associate
- Anticipate both job descriptions out in the next few weeks
- Stay tuned for more updates
PSA: More than you might know

• Most people think of the PSA when they think of the PSA Grower and TTT Courses...which is good!

• PSA is engaged in many other areas:
  – Technical assistance
  – International activities
  – Website and database development/management
  – Educational material development and updates
  – Program policy and maintenance
  – Outreach
  – Contributions to science
PSA Training Milestones

Overall Stats
45,210 Grower Training Participants
2,828 Train-the-Trainer Participants

Train-the-Trainer Courses

Domestic
• 68 Train-the-Trainer Courses
• 1,752 Trainers
• 242 Lead Trainers

International
• 21 Train-the-Trainer Courses
• 787 Trainers
• 124 Lead Trainers

Grower Training Courses

Domestic
• 1,382 Grower Training Courses
• 30,253 Grower Participants

International
• 614 Grower Training Courses
• 14,957 Grower Participants
# Nationwide PSA Grower Training Courses

**September 2016 – September 2019**

**Top 11 States**

<table>
<thead>
<tr>
<th>State</th>
<th>Grower Training Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>289</td>
</tr>
<tr>
<td>Washington</td>
<td>79</td>
</tr>
<tr>
<td>Florida</td>
<td>63</td>
</tr>
<tr>
<td>Michigan</td>
<td>58</td>
</tr>
<tr>
<td>New York</td>
<td>42</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>41</td>
</tr>
<tr>
<td>Ohio</td>
<td>39</td>
</tr>
<tr>
<td>Indiana</td>
<td>38</td>
</tr>
<tr>
<td>Georgia</td>
<td>37</td>
</tr>
<tr>
<td>North Carolina</td>
<td>37</td>
</tr>
<tr>
<td>Texas</td>
<td>37</td>
</tr>
</tbody>
</table>


*Updated: 9/17/19*
Nationwide PSA TTT Courses
September 2016 – September 2019
Top 10 States

<table>
<thead>
<tr>
<th>State</th>
<th>TTT Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>6</td>
</tr>
<tr>
<td>Florida</td>
<td>5</td>
</tr>
<tr>
<td>Washington</td>
<td>4</td>
</tr>
<tr>
<td>New York</td>
<td>4</td>
</tr>
<tr>
<td>Arizona</td>
<td>3</td>
</tr>
<tr>
<td>Hawaii</td>
<td>3</td>
</tr>
<tr>
<td>Louisiana</td>
<td>3</td>
</tr>
<tr>
<td>Mississippi</td>
<td>3</td>
</tr>
<tr>
<td>New Mexico</td>
<td>3</td>
</tr>
<tr>
<td>Texas</td>
<td>3</td>
</tr>
</tbody>
</table>
# International Courses

<table>
<thead>
<tr>
<th>Country</th>
<th>Grower Courses</th>
<th>GT Participants</th>
<th>TTT Courses</th>
<th>TTT Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>20</td>
<td>238</td>
<td>1</td>
<td>39</td>
</tr>
<tr>
<td>Brazil</td>
<td>5</td>
<td>144</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Canada</td>
<td>3</td>
<td>27</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Chile</td>
<td>152</td>
<td>3659</td>
<td>3</td>
<td>66</td>
</tr>
<tr>
<td>Colombia</td>
<td>17</td>
<td>541</td>
<td>1</td>
<td>50</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>23</td>
<td>416</td>
<td>2</td>
<td>112</td>
</tr>
<tr>
<td>Dominican Republic</td>
<td>6</td>
<td>165</td>
<td>1</td>
<td>34</td>
</tr>
<tr>
<td>Ecuador</td>
<td>52</td>
<td>975</td>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>Germany</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Grenada</td>
<td>1</td>
<td>33</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Guatemala</td>
<td>15</td>
<td>412</td>
<td>1</td>
<td>33</td>
</tr>
<tr>
<td>Honduras</td>
<td>3</td>
<td>64</td>
<td>1</td>
<td>39</td>
</tr>
<tr>
<td>India</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Italy</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jamaica</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>43</td>
</tr>
<tr>
<td>Mexico</td>
<td>263</td>
<td>7211</td>
<td>8</td>
<td>399</td>
</tr>
<tr>
<td>Morocco</td>
<td>1</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Nicaragua</td>
<td>1</td>
<td>26</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Panama</td>
<td>1</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Peru</td>
<td>39</td>
<td>896</td>
<td>1</td>
<td>45</td>
</tr>
<tr>
<td>South Africa</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Spain</td>
<td>3</td>
<td>36</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Trinidad &amp; Tobago</td>
<td>3</td>
<td>48</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Uruguay</td>
<td>2</td>
<td>30</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>614</strong></td>
<td><strong>14,957</strong></td>
<td><strong>21</strong></td>
<td><strong>889</strong></td>
</tr>
</tbody>
</table>

**Note:** 56 International GT courses currently do not have participant data, most of which were hosted between August – Sept. 2019. Course data still yet to be returned by host or currently being entered into the AFDO database.
Now Available – Version 1.2

*English & Spanish*

- Curriculum Version 1.2
- Released July (English), October (Spanish)
- Includes updates for Subpart E extension of compliance dates, typographical errors, organizational edits, and new photos
- Complete change log and summarized list of changes available on the website
*NOTICE*

- Version 1.0 PSA Grower Training curriculum must not be used for registered PSA Grower Trainings after Dec. 31, 2019
- Version 1.1 can continue to be used, as long as required updates are provided
- Version 1.2 is the current version of the curriculum
Version 1.0 Use - Policies

• To reduce delivery of outdated educational material to participants, any remaining copies of the Version 1.0 PSA Grower Training curriculum must not be used for registered PSA Grower Trainings after Dec. 31, 2019.

• If Version 1.0 must be used between now and Dec. 31, 2019, the following updates must be covered during the training to be consistent with Version 1.1 and 1.2 usage.

  1. Present slides that include the updates & FDA Announcements Regarding Agricultural Water (PowerPoint)
  2. Provide handout of the slides and notes (Printable PDF with Notes)

• Trainers and Lead Trainers must review the Critical Edits sheets prior to delivery of the training so they are aware of the changes and can alert participants to those changes. Please note, this means both change logs since there have been two updates (V 1.0 -> V 1.1 -> V 1.2).
Version 1.1 Use - Policies

• Version 1.1 can still be used
  – Version 1.1 electronic files still available in the bookstore to meet class requirements

• If using the Version 1.1 manuals, the following updates must be covered during the PSA Grower Training Course:
  – Present slides that include the updates & FDA Announcements Regarding Agricultural Water (PowerPoint)
  – Provide handout of the slides and notes to attendees (Printable PDF with Notes)
  – Trainers review the Critical Edits sheet to PSA Grower Training attendees so that they are aware of the changes.

• These updates are not required if Version 1.2 is used
Version Use Policies

• PowerPoint presentations must match the printed manual version provided to participants in the course (e.g., V 1.1 PPTs must be used with V 1.1 printed manuals).

• All participants in the course must have the same version of the manual.

• This policy will remain active until a new version is released. At this time, there is no established timeline for updating the curriculum beyond Version 1.2.

• Updates will be considered upon release of additional FDA guidance or policy developments that may impact the content of the curriculum.
Updated PPTs & Trainer Directory

PowerPoint Access
• Download at: https://producesafetyalliance.cornell.edu/training/grower-training-powerpoint-modules/

Keep your contact info up-to-date with AFDO and the PSA
• https://producesafetyalliance.cornell.edu/training/directory/
• Use the ‘Update my Entry’ section
PSA Policy Reminders

• PSA Lead Trainer Responsibilities
  – Reminder: PSA Lead Trainers are responsible for ensuring that all paperwork is completed and returned to AFDO after the course concludes, regardless of other individuals or organizations assisting with the course.
  – ALL Lead Trainers who participate in the course will be responsible and subject to potential Lead Trainer status suspension or revoking if course policies are not followed.

• PSA Grower Training Course Evaluations must be printed, distributed to all participants, collected, and mailed directly to AFDO.
  – In 2019, we began auditing the receipt of evaluations and have implemented a tracking system.
  – Warnings will be sent to Lead Trainers if four or more course evaluations are missing for more than 90 days. If evaluations continue to not be returned for future courses, Lead Trainer status will be suspended.
Printing Evaluations

- Only white paper, 28 lb. thickness
- 2-sided duplex printing recommended
- Do not use photocopied versions
- Print evals at 100% size (do not select “fit” or “scale to fit page”)
- Use blue or black pen and instruct participants to stay inside boxes

Not scannable and therefore, not useful
PSA Policy Reminders

• Please make sure to register courses at least 2 weeks in advance!
  – This provides AFDO the necessary time to generate the registration paperwork and set up the course within the database.
  – Retroactive registration not accepted unless all paperwork can be presented including PSA evaluations, course documentation, and proof of PSA lead Trainer/Trainer attendance, and subject to $250 administrative fee.

• Timely Payment for Certificates
  – AFDO will begin instituting a 6 month policy. Certificates MUST be paid for within 6 months of the course date or certificates will not be issued to participants.
Enforcement Discretion

FDA announced enforcement discretion for some requirements:

• Farm and facility definitions
  • For some facilities* conducting farm activities, discretion for preventive controls (but not cGMPs)
    *Facility that would be a secondary activities farm except for ownership

• Discretion for written assurances from buyer, related to kill steps

• Discretion for hops, wine grapes, pulse crops, and almonds
Water Compliance Date Extension

• Applies to all provisions of Subpart E other than sprouts
  – Safe and sanitary agricultural water quality
  – Annual inspection of the agricultural water system
  – Monitoring requirements for agricultural water
  – Numeric criteria for agricultural water

• First compliance date is January 26, 2022
  – Small farms date is 2023, very small farms 2024

• Module 5: Ag water is still important information
  – Updated in v1.2 with revised compliance dates and methods guidance
  – The requirements in 2022 may be very similar to existing language
  – Helps to avoid adulterating produce per FD&C
## FDA Rule: Extension of Water Compliance Dates

<table>
<thead>
<tr>
<th>Business Size</th>
<th>Compliance Dates For Most Requirements</th>
<th>Water Related Compliance Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>All other businesses (&gt;500K)</td>
<td>1/26/18</td>
<td>1/26/22</td>
</tr>
<tr>
<td>Small businesses (&gt;250K-500K)</td>
<td>1/28/19</td>
<td>1/26/23</td>
</tr>
<tr>
<td>Very small businesses (&gt;25K-250K)</td>
<td>1/27/20</td>
<td>1/26/24</td>
</tr>
</tbody>
</table>

- In the Final Rule issued March 2019, compliance dates for all agricultural water requirements (other than sprouts) allow for an additional 4 years.
- For example, ‘all other businesses’ could wait until 2022 to begin sampling.
¡BIENVENIDO AL SITIO WEB DE LA ALIANZA (PRODUCE SAFETY ALLIANCE)!

Proporcionando conocimientos fundamentales con base científica sobre la inocuidad de los alimentos en la huerta a productores de frutas y vegetales frescos, empaquetadores, personal normativo y otras personas interesadas en la inocuidad de los productos agrícolas frescos.

La Alianza para la Inocuidad de los Productos Agrícolas Frescos (Produce Safety Alliance-PSA) es una colaboración entre la Universidad de Cornell, la FDA y el USDA para preparar a los agricultores de los productos agrícolas frescos a cumplir con los requisitos reglamentarios incluidos en la Norma de los Productos Agrícolas Frescos (Produce Safety Rule-PSR) de la Ley de Modernización de la Inocuidad de los Alimentos (FSMA) de la Administración de Alimentos y Medicamentos de los Estados Unidos (FDA).
Modified Labeling Requirements

• Compliance date coming up: 01 Jan 2020
• For Qualified Exempt Farms
• Module 7
Meeting Report: Key Outcomes from a Collaborative Summit on Agricultural Water Standards for Fresh Produce. Comprehensive Reviews in Food Science and Food Safety. doi:10.1111/1541-4337.12434
PSA Online Grower Training Course

• Updated to Version 1.2
  – Currently being reviewed by FDA
  – Pilot courses being planned
  – Launch in 2020

• Course will meet requirements of 112.22(c) and result in AFDO certificate
Instructor-moderated format

• Content is the PSA Grower Training curriculum
• Electronic format enhancements
  – Full text of Produce Safety Rule requirements on ‘regulatory’ slides
  – Hyperlinked resources
  – Embedded videos
• Interactive elements help maintain focus and direct learning effort
Interactive Elements

• Learning assessments geared toward the curriculum learning objectives
  – Multiple choice, matching, fill in the blank
  – Feedback designed to enhance learning

• Case studies
  – Short discussions of prior outbreaks
  – Similar to live instruction stories and anecdotes

• Required discussions
  – Evaluated by instructor, must meet rubric criteria
  – Designed to represent elements of a farm food safety plan
Trainer Resources

General Resource Listing

- Recursos en Español
- Trainer Resources
- Farm Food Safety Plan Writing Resources
- Produce Safety Educators Group - Meeting Notes and Resources
- Grower and Train-the-Trainer Manual Order Request Form
- Soil Summits
- Water Summit

Water

- The Water Analysis Method Requirement in the FSMA Produce Safety Rule (Updated August 2018 to reflect recent FDA announcements)
- FSMA Produce Safety Rule Water Requirements: Insights to Get You Organized!
- MWQP Agricultural Water Calculators (online tools)
- Geometric Means, Statistical Threshold Values, and Microbial Die-Off Rates (longhand calculations)

Soil Amendments

- South Central Soil Summit Resources
- Southeastern Soil Summit Resources
General Resources
New PSA Resources
Released in 2019

• Farm Food Safety Plan Writing Template
  – Incorporates USDA Harmonized GAP standards and PSR requirements!

• FSMA Produce Safety Rule: Documentation Requirements for Commercial Soil Amendment Suppliers
  – Model Certificate of Conformance available in Word format!
New PSA Resources
Released in 2019

• Short Videos on Produce Safety
  – What is a Biofilm?
  – What is Infiltration?
  – Introduction to the PSA Grower Training Course
  – What is the PSA?

• Cleaning Versus Sanitizing Fact Sheet

• Information to share with laboratories:
  FSMA Produce Safety Rule Water Quality Testing Requirements for Farms
Updated PSA Resources
Revised in 2019

- Updates & FDA Announcements Regarding Agricultural Water
- Compliance Dates Chart
- Labeled Sanitizers for Produce

Compliance Date Chart

<table>
<thead>
<tr>
<th>Business Size</th>
<th>Compliance Date for Growers/Producers</th>
<th>Compliance Date for Processors</th>
<th>Compliance Date for Packers/Wholesalers</th>
<th>Compliance Date for Retailers/Wholesalers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Fruits</td>
<td>1/25/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
</tr>
<tr>
<td>Whole Vegetables (≤500K)</td>
<td>1/25/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
</tr>
<tr>
<td>Whole Vegetables (500K-1M)</td>
<td>1/25/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
</tr>
<tr>
<td>Whole Vegetables (≥1M)</td>
<td>1/25/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
<td>1/26/18</td>
</tr>
</tbody>
</table>

*This chart reflects the applicable FDA requirements as of the date of publication and is subject to change. For the most current information, please visit the FDA’s website. [www.fda.gov](http://www.fda.gov)*

Produce Safety Alliance
PSA Advanced Trainer Workshops

- Continuing development of advanced trainer workshop materials in collaboration with the FSMA Southern Center
- Plan to utilize modules to roll out trainings regionally

SAVE THE DATE

PSA Advanced Trainer Workshops
December 17-19, 2019 and January 28-30, 2020 (pick one)
Lake Alfred, FL
For more information, contact Katelynn Stull (k.stull@ufl.edu)
Funding Updates

• PSA has received some additional funding to support us into 2021 and hire one additional person
• PSA provides unique outreach and assistance that is important to growers, trainers, and the produce industry
• Clear need for PSA beyond 2021, so funding is still a concern
• Sustainable PSA funding is a challenge
Shazam! 10 Years of PSA

• October 1, 2019 begins our 10th year
• Demonstrated positive impact on helping growers understand and implement practices
  • Thanks to dedication and collaboration with all of you
• Continued focus on developing effective education/training materials and technical assistance
  • Important as inspections start
• Continued support of growers and trainers through advance trainings
• Oh, the places left to go...
The PSA Website
http://producesafetyalliance.cornell.edu/
En español: es.producesafetyalliance.cornell.edu