

Produce Safety

ALLIANCE

Produce Safety Educator's Monthly Call #19

May 23, 2016

2 PM EDT

Meeting Summary

Total Attendance: 56

Meeting recording available at: Not available for this meeting.

Agenda

Agenda, Monday May 23, 2016, 2PM EDT:

- 2:00 PM: Welcome
- 2:05 PM: Produce Safety Alliance Updates
- 2:10 PM: Background and Research Needs on BSAO: Biological Soil Amendments of Animal Origin
- 2:50 PM: Questions & Discussion
- 3:00 PM: Adjourn

Discussion

I. Introductions

- *David Oryang, M.S. and Steven Duret, Ph.D.*

II. PSA Updates

- PSA currently moving towards a September 2016 launch
- Planning to send out a training needs survey to determine PSA material print quantities, material types (spiral vs. binders), etc. It will be very helpful in planning purposes and we will try to keep it very brief.
- Barb Fick – new Regional Extension Associate for the Northwest and located in Corvallis, OR.
 - Barb is a horticulturist who brings a diverse background to the Produce Safety Alliance. She has been involved in the development and implementation of numerous educational programs including management of yard waste, home and garden integrated pest management, Firewise landscaping, and Oregon waterwise gardening. Barb has spent the majority of her career working at Oregon State University as a community horticulture extension faculty member training and coordinating Master Gardener volunteers. She has a Bachelor of Science in plant science from the University of Wisconsin-River Falls and a Master of Science degree in horticulture from the University of Minnesota.

- PSA website has recently been updated. Check out our new [contact page](#), [farm food safety plan resources](#) list, and [extension articles](#). We always welcome additional collaborators and resources to highlight – contact Gretchen Wall (glw53@cornell.edu) if you have something to add to the website.
- III. **Background and Research Needs on BSAAO: Biological Soil Amendments of Animal Origin**
- **Background of the Produce Safety Rule & risk assessment of BSAAO – David Oryang**
 - FDA is conducting a risk assessment to evaluate and, if feasible, quantify the risk of human illness associated with the consumption of produce grown in fields or other growing areas amended with untreated BSAAO
 - Assess Impact of certain interventions, such as use of a time interval or intervals between application and harvest, on the predicted risk
 - **Risk Assessment Process**
 - Risk analysis framework was developed back in 2002
 - Federal register notice was published in March with an Extension until July 5
 - Requests data from the public
 - **Risk Assessment – Steven Duret**
 - Framework of the risk assessment
 - Many factors that can influence the model
 - What is actually happening in the growing area
 - a. Initial level in manure at time of application
 - b. Pathogen survival in amended soil
 - c. Transfer of soil to leafy greens (or other types of produce)
 - Public Health Risks
 - a. Consumer (serving size, # of servings, dose)
 - b. Food Supply Chain (time/temp, washing, growth/die-off)
 - Key Points to Consider in Assessing Exposure
 - a. Pathogens may be present in BSAAO, may persist in amended soil, may be transferred from soil to produce, and pathogens present may be impacted by handling practices
 - Meta-analysis
 - a. Impact of season, geographical location, solar irradiation, manure type, type of soil, application method
 - b. Survival in amended soil – examples of previous research (Islam (2004), Hutchinson (2004), and Nyberg (2010))
 - Data/Research Needs
 1. Data on the prevalence and level of pathogens
 2. Data and information on survival of pathogens in amended soil and transfer to produce
 3. On-farm practices with regard of the use of untreated BSAAO
 4. Harvesting, handling practices and storage conditions between harvest and retail

5. Storage conditions from retail to consumption (e.g. time – temperature profiles), and consumer handling practices
- **Federal Register Notice**
 - **Special data needs**
 - FDA needs scientific data and information concerning, but not limited to, the following factors that may affect the risk of human illness associated with the consumption of produce (e.g., leafy greens and other row crops, root crops, and tree crops) grown in fields amended with untreated biological soil amendments of animal origin (BSAAO) (including raw manure):
 - a. Data on the prevalence and levels of pathogens. Frequency of detecting presence of pathogens
 - b. Pathogen concentration in contaminated untreated BSAAO's
 - i. Question: Trevor Suslow – this type of research is not always straightforward, especially as it relates to STEC organisms – are you providing a standard method so that data can be comparable?
 - ii. FDA response: We are using methods that UC Davis has begun to develop. Also being used by ARS and others on the East Coast. Have not developed a clear strategy, we welcome that input from you. Will use a meta-analysis – take into account the methodology of the measurement and use statistics to correct. It is important to submit the meta-data along with the information about the samples.
 - c. Data and information on survival of pathogens and pathogen transfer to produce
 - i. Different pathogen serotypes may behave differently in various types of soils, FDA requests data on this
 - ii. FDA needs to understand what the variability is, given all of these differences and develop a model which can characterize this
 - d. On-farm practices with regard to use of untreated BSAAO's
 - i. See full list of data needs in slide set (Slide 19, DataNeeds-3)
 - e. Harvesting, handling and storage conditions that may affect pathogen detection and levels, survival, growth, or inactivation between harvest and retail sale along the farm-to-fork continuum.
 - i. Please consider sharing the great research that has been published or not yet been published to help inform this process

- ii. Main focus is what happens at the farm level, but there is a call for data in the postharvest segment of the food chain, including transportation and consumer handling
- **Submit comments and scientific data and information:**
 - Electronic: Federal eRulemaking Portal: <http://www.regulations.gov>.
 - Written / Paper Submissions : Mail/Hand delivery/Courier (for written/paper submissions): Division of Dockets Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, rm. 1061, Rockville, MD 20852.
 - FOR FURTHER INFORMATION CONTACT: Jane Van Doren, Center for Food Safety and Applied Nutrition (HFS-05), Food and Drug Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, 240-402-2927

IV. Call Wrap Up:

- **Future Produce Safety Educator Meeting Agendas:** Let us know what you would like to talk about! Send us your ideas, concerns, comments and we will add it to the next monthly meeting.
 - **Tentative next meeting:** June 13, 2016 - 2PM EST
 - Call-in information and agenda will be sent closer to the meeting date
 - Thanks to everyone for taking time to participate in this call
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- **Adjourned 3:06 PM EDT**