

## Key Takeaways

### “Won’t You Be My Neighbor: Co-existing in Your Farming Community While Navigating the Complex World of Produce Food Safety” May 4, 2023 | Produce Safety Webinar Series Summaries (#16)

Alexis M. Hamilton, Laura K. Strawn, Michelle D. Danyluk, and Michele Jay-Russell

#### Top 5

- 1) Cattle operations are regulated by a different government entity than fresh produce operations, which impacts specific practices and communication around food safety risk management between fresh producer growers and managers of land adjacent to these operations.
- 2) A OneHealth approach recognizes that the health of humans, animals, and the environment are intertwined with each others; thus, interventions to improve the health of any of these areas should consider their impact on the others.
- 3) Foodborne pathogens (like *E. coli* O157:H7) can be spread to fresh produce through water (irrigation water, farm ponds, other reservoirs), livestock, dust and bioaerosols, soil amendments and unfinished compost, wildlife, workers, and management practices. Some examples of when an increased risk of foodborne pathogens may occur due to reservoirs include when there are loose animals in the production field, dust or bioaersols are generated, storing untreated manures, and pathogen “spillover” to free-roaming wildlife.
- 4) Co-management is an approach to food production that works to blend the goals of environmental health and sustainability with food safety to develop practices that balance the needs of both components.
- 5) The CAN program is developing a model for handling adjacent land use concerns by working to identify research, communication, and training needs through workshops and facilitated dialogues.

#### Acronym Key:

CAN: California Agriculture Neighbors

## Additional Reading

California Agricultural Neighbors (CAN) – Interim Report (2021).

[https://www.cdfa.ca.gov/is/docs/can\\_interim\\_report.pdf](https://www.cdfa.ca.gov/is/docs/can_interim_report.pdf)

California Agricultural Neighbors webinars. <https://montereycfb.com/california-agricultural-neighbors/>

California Agricultural Neighbors website. <https://montereycfb.com/california-agricultural-neighbors/>

California Agricultural Neighbors workshops. <https://www.wifss.ucdavis.edu/good-ag-neighbors/>

Danyluk MD and DW Schaffner (2011). Quantitative assessment of the microbial risk of leafy greens from farm to consumption: preliminary framework, data, and risk estimates. *Journal of Food Protection*.

<https://pubmed.ncbi.nlm.nih.gov/21549039/>

Davis DA (2022). California Agricultural Neighbors Releases Four Key Food Safety Action Items After Yearlong Discussion. *Western Growers Association News – Food Safety*.

<https://www.wga.com/news/california-agricultural-neighbors-releases-four-key-food-safety-action-items-after-yearlong-discussion/>

Jeamsripong S, JA Chase, MT Jay-Russell, RL Buchanan, and ER Atwill (2019). Experimental In-Field Transfer and Survival of *Escherichia coli* from Animal Feces to Romaine Lettuce in Salinas Valley, California. *Microorganisms*. <https://www.mdpi.com/2076-2607/7/10/408>

Melotto M, MT Brandl, C Jacob, MT Jay-Russell, SA Micallef, ML Warburton, and AV Deynze (2020). Breeding Crops for Enhanced Food Safety. *Frontiers in Plant Science*.

<https://www.frontiersin.org/articles/10.3389/fpls.2020.00428/full>

Patterson L, N Navarro-Gonzalez, MT Jay-Russell, R Aminabadi, and AFA Pires (2022). Risk factors of Shiga toxin-producing *Escherichia coli* in livestock raised on diversified small-scale farms in California. *Epidemiology & Infection*. <https://doi.org/10.1017/S0950268822001005>

Pires AFA, TDM Ramos, JN Baron, PD Millner, PH Pagliari, M Hutchinson, V Haghani, P Aminabadi, A Kenney, F Hashem, B Martinez-Lopez, EA Bihn, DP Clements, JB Shade, AR Sciligo, and MT Jay-Russell (2023). *Frontiers in Sustainable Food Systems*.

<https://www.frontiersin.org/articles/10.3389/fsufs.2023.1125996/full>

Theofel CG, TR Williams, E Gutierrez, GP Davidson, M Jay-Russell, and LJ Harris (2020).

Microorganisms Move a Short Distance into an Almond Orchard from an Adjacent Upwind Poultry Operation. *Journal of Applied and Environmental Microbiology*.

<https://journals.asm.org/doi/full/10.1128/AEM.00573-20>

If you have difficulty acquiring access to any of the references listed within this document, please contact the grant coordinator, Christina Kessler, at

[christinakessler@ufl.edu](mailto:christinakessler@ufl.edu).