

Case Studies:
What can we
learn from what
went wrong to
protect our brand
and category?

Trevor Suslow

18 February 2021

tvsuslow@ucdavis.edu

tvsuslow@gmail.com

Which Lm risk factors have long been viewed as key to very low risk with regards to strawberries?

- Soil fumigation pre-transplant
- Drip irrigation under plastic mulch
- Direct placement into clamshells
- All dry handling
- Short pre-haul to cooler
- Forced-air cooling
- Low temp coolers
- Low temp transportation/Centerline loading



Which Lm risk factors have long been viewed as key to very low risk with regards to strawberries?

- Soil fumigation pre-transplant
- Drip irrigation under plastic mulch
- Direct placement into clamshells
- All dry handling
- Short pre-haul to cooler
- Forced-air cooling
- Low temp coolers
- Low temp transportation/Centerline loading
- All the above and more



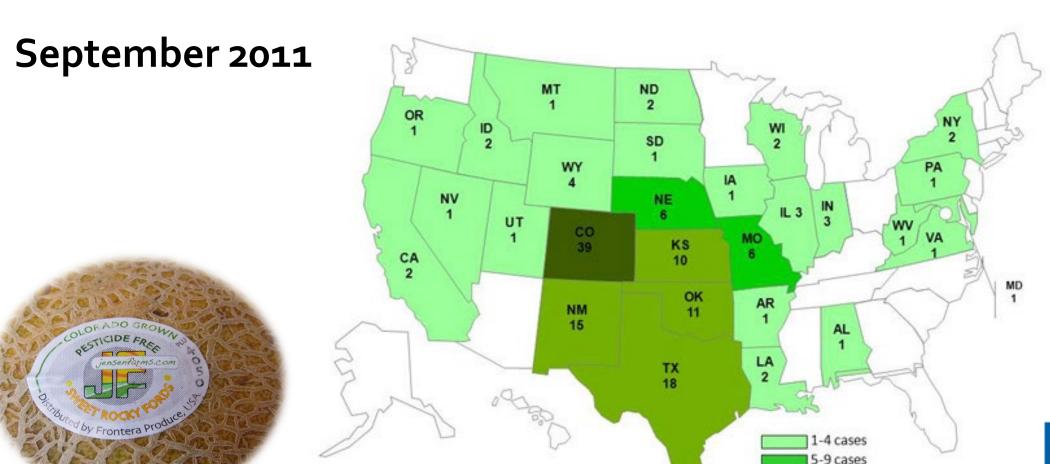




Case Studies: What can we learn from what went wrong?

- Lm and cantaloupe
- Lm and caramel apples
- Lm and stone fruit
- Lm and fresh cut onions

Persons infected with the outbreak-associated strains of *Listeria monocytogenes*, by state









Jensen Farms Listeria Outbreak 2011 Conclusion: To explain levels of detection, initial contamination and amplification of Lm on melons was a postharvest shipping point event and continued during distribution and marketing



Was this a 'perfect storm' or a singular, but massive, error of collective ignorance?



What first strikes you about this system?



Company had made multiple facility improvements in effort to improve food safety systems



Modified Potato Dewatering Line

- Purchased used
- Never commissioned for use with netted melons
- Felt dewatering pads
- Several Lm types found on, in, and around







FDA cited pooled water as a risk factor

Room cooling takes an extended time to reduce temperature in a palletized lot





2018 Lm outbreak traceback leads to Rombola Family Farms



- Weather events heavy rain and dust storms
- Heavy soil deposits on fruit
- Lm found on fruit, floor under spray bars
- Possible re-circulation from dewatering fans

This scenario would not be allowed for leafy greens. So why not strawberries?



Packed with no water treatment, transported, and forced-air cooled within 2-3h

 More discussion in the next session





Survival of Foodborne Pathogens on Berries¹

Mary Palumbo, Linda J. Harris, and Michelle D. Danyluk²

