# A Journey Through the Past: Applying Lessons Learned From Food Safety Incidents to Current Strategies

Ben Chapman North Carolina State University April 13, 2015







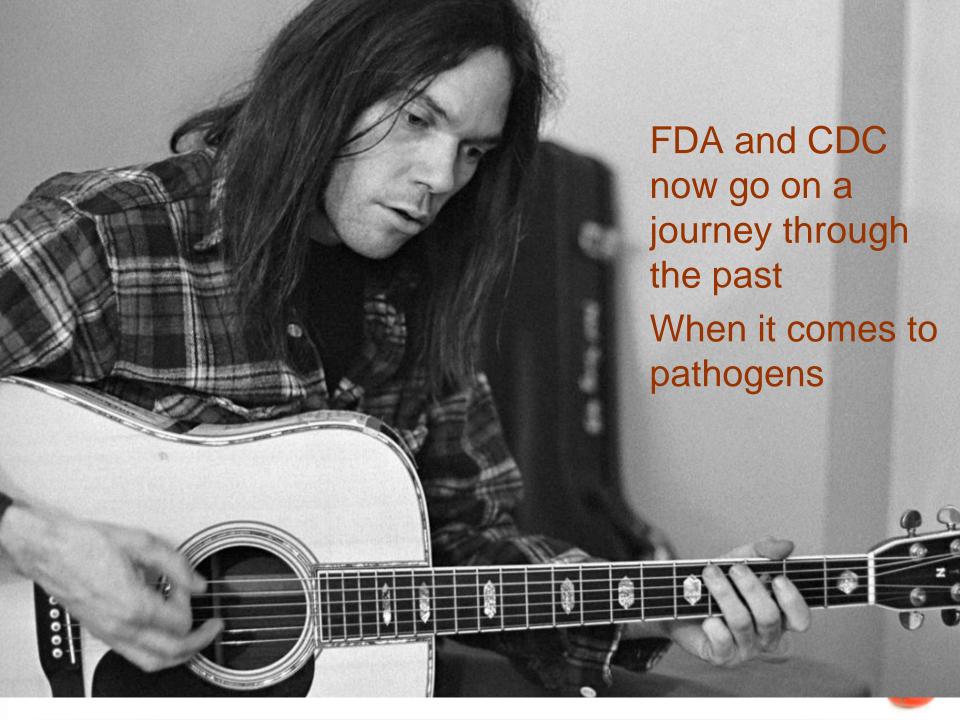












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#### For Immediate Release: March 14, 2012 Contact: CDC Division of News and Electronic Media (404) 639-3286

# CDC research shows outbreaks linked to imported foods increasing Fish and spices the most common sources

Foodborne disease outbreaks caused by imported food appeared to rise in 2009 and 2010, and nearly half of the outbreaks implicated foods imported from areas which previously had not been associated with outbreaks, according to research from the Centers for Disease Control and Prevention, presented today at the International Conference on Emerging Infectious Diseases in Atlanta.

"It's too early to say if the recent numbers represent a trend, but CDC officials are analyzing information from 2011 and will continue to monitor for these outbreaks in the future," said Hannah Gould, Ph.D., an epidemiologist in CDC's Division of Foodborne, Waterborne and Environmental Diseases and the lead author.

CDC experts reviewed outbreaks reported to CDC's Foodborne Disease Outbreak Surveillance System from 2005-2010 for implicated foods that were imported into the United States. During that five-year period, 39 outbreaks and 2,348 illnesses were linked to imported food from 15 countries. Of those outbreaks, nearly half (17) occurred in 2009 and 2010. Overall, fish (17 outbreaks) were the most common source of implicated imported foodborne disease outbreaks, followed by spices (six outbreaks

including five from fresh or dried peppers). Nearly 45 percent of the imported foods causing outbreaks





 Food industry is not well trusted (outbreaks and recalls contribute to this)

- 84% of Americans pay attention to food recalls
- 81% report to others
- <60% American check their homes for a recall food item.









#### 2015 Recalls, Market Withdrawals & Safety Alerts

Date	Brand Name	Product Description	Reason/Problem	Company	Details/Photo
04/10/2015	Baxter	Sodium Chloride, Dextrose, and Lactated Ringer's Injections	Particulate Matter	Baxter International Inc.	
04/09/2015	Texas Pecan Company Inc.	Macadamia Nuts	Salmonella	Texas Pecan Company Inc.	
04/08/2015	Sabra	Classic Hummus	Listeria monocytogenes	Sabra Dipping Co., LLC	
04/08/2015	Central Market	Teriyaki Salmon Jerky	Undeclared Soy and Wheat	World Wide Gourmet Foods	
04/08/2015	La Guadalupana	Salsa Verde Vegan Tamales	Undeclared eggs	La Guadalupana Wholesale Co., Inc.	
04/08/2015	La Guadalupana	Salsa Verde Vegan Tamales	Undeclared eggs	La Guadalupana Wholesale Co., Inc.	
04/07/2015	Blue Bell	Ice cream and sherbet	Listeria monocytogenes	Blue Bell Creameries, LP	
04/07/2015	Nature's Eats and Central Market	Macadamia nut produc s	Salmonella	Texas Star Nut and Food Co., Inc.	
04/06/2015	Deer	Cumin powder	Undeclared peanut	Best Foods	



Survival of Salmonella enterica, Escherichia coli O157:H7, and Listeria monocytogenes on inoculated walnut kernels during storage.

Blessington T1, Mitcham EJ, Harris LJ.

Author information

In some cases, the time of storage at 23° C did not influence bacterial levels, and in other cases the calculated rates of decline for Salmonella (0.05 to 0.35 log CFU/g per month) and E. coli O157:H7 (0.21 to 0.86 log CFU/g per month) overlapped and were both lower than the range of calculated declines for L. monocytogenes (1.1 to 1.3 log CFU/g per month).







<sup>&</sup>lt;sup>1</sup>Department of Food Science and Technology, Department of Plant Sciences, University of California, Davis, Davis, CA 95616, USA.





# And here's a reason why supplier verification is



The point of entry. It had nothing to do with our sanitation, protocol or Blue Ridge Food Ventures. It did not originate in Asheville and it was unknowingly passed along to us. So it's a big relief to us. Now we can look at moving forward — it's up to the FDA to trace this further."





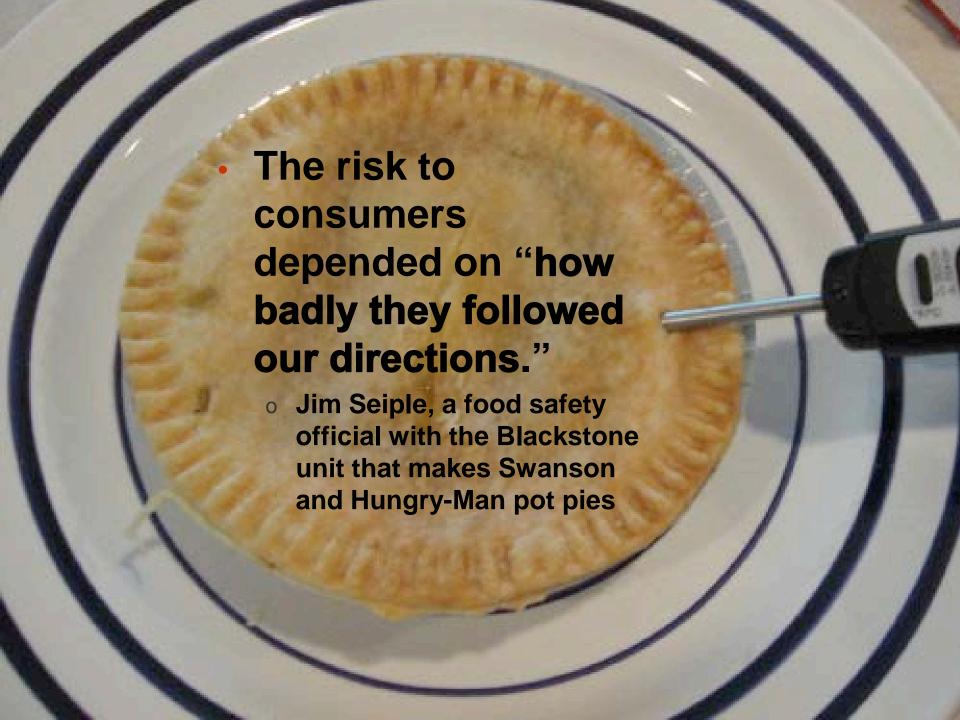




ConAgra
Pot Pie
outbreak
2007

Over 400 ill in 41 states









## **Third-Party Audits**



- "The contributions of third-party audits to food safety is the same as the contribution of mailorder diploma mills to education. ... I have not seen a single company that has had an outbreak or recall that didn't have a series of audits with really high scores."
- Mansour Samadpour, president, IEH Laboratories, Seattle













#### DEPARTMENT OF THE ARMY

HEADQUARTERS, UNITED STATES ARMY VETERINARY COMMAND 2050 WORTH ROAD FORT SAM HOUSTON, TEXAS 78234-6000

ATTENTION OF

August 6, 1996

Approved Sources Division

Odwalla 1900 Davis Drive Dinuba, California 93618

Gentlemen:

We received the report of the June 6, 1996, initial sanitary inspection of your establishment.

We reviewed the deficiencies noted in the report, which our inspector discussed with you at the time of the inspection. As a result, we determined that your plant sanitation program does not adequately assure product wholesomeness for military consumers. This lack of assurance prevents approval of your establishment as a source of supply for the Armed Forces at this time.

We reviewed the deficiencies noted in the report, which our inspector discussed with you at the time of the inspection. As a result, we determined that your plant sanitation program does not adequately assure product wholesomeness for military consumers. lack of assurance prevents approval of your establishment as a source of supply for the Armed Forces at this time.









Audit? Sure, but do something with it

- Try not to make people sick
- Create a culture of food safety in your organization
- Embrace evidence-based microbiologically safe food
- Market it (and back it up)
- Be the bug

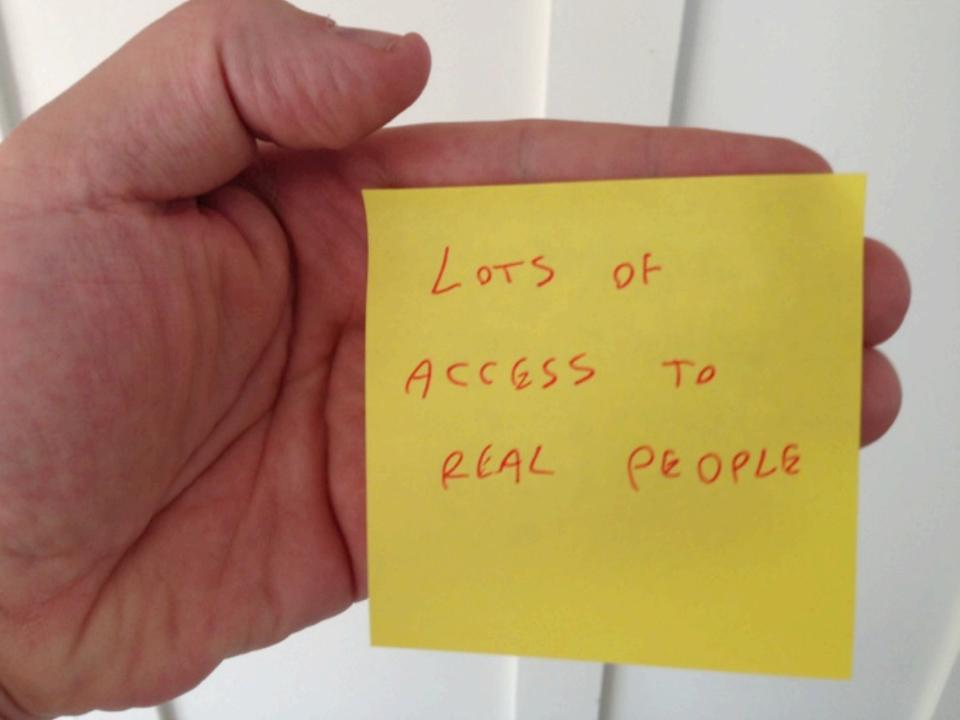










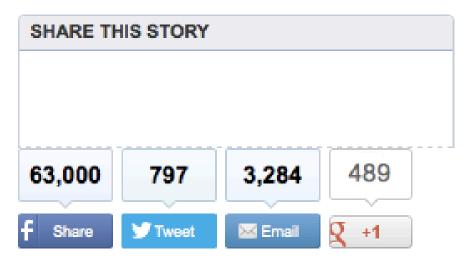


# Pink Slime For School Lunch: Government Buying 7 Million Pound Of Ammonia-Treated Meat For Meals

First Posted: 03/05/2012 4:19 pm | Updated: 03/08/2012 1:56 pm

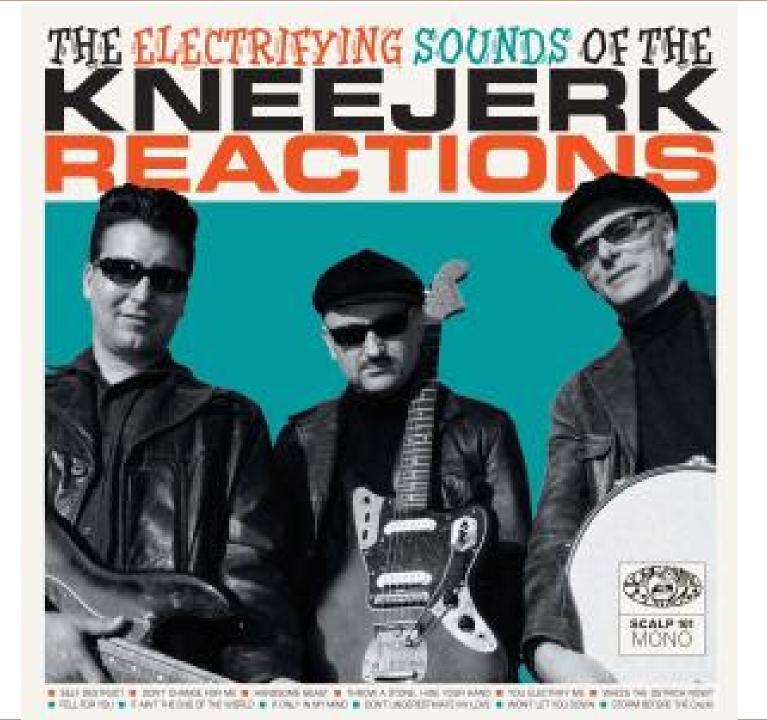


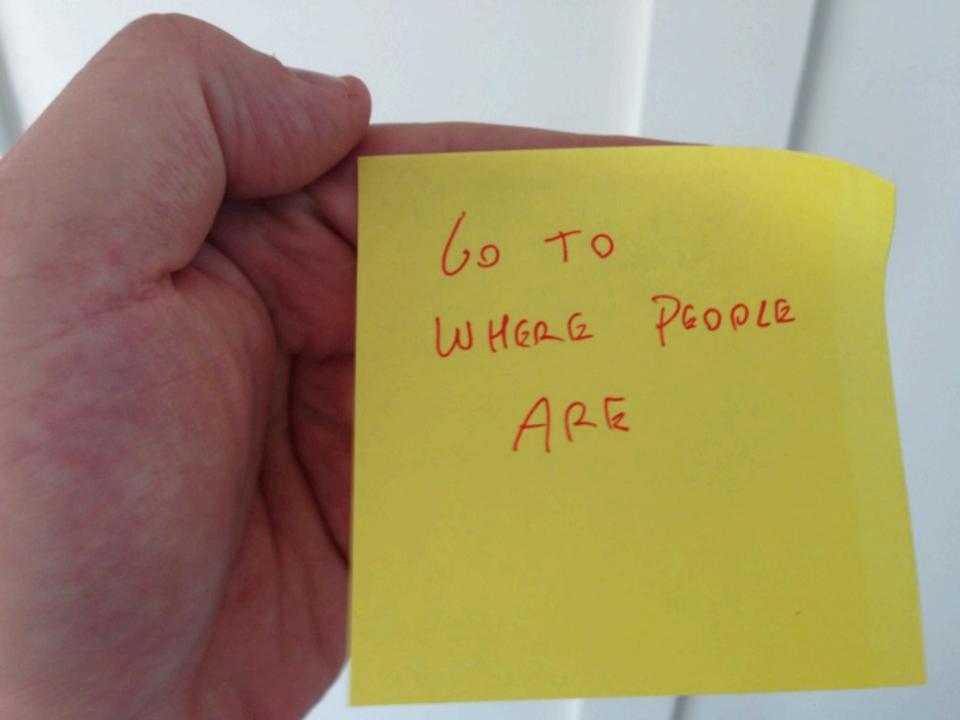
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Healthy School Lunches , Healthy School Meals , Lean Beef Trimmings , Pink Slime , Pink
Slime In Schools , Pink Slime Meat , Salmonella , School Meals , Soylent Pink , Usda ,
Education News



Pink slime -- that ammonia-treated meat in a brig Pepto-bismol shade -- may have been rejected to fast food joints like McDonald's, Taco Bell and B King, but is being brought in by the tons for the nation's school lunch program.

The U.S. Department of Agriculture is purchasing million pounds of the "slime" for school lunches, Daily reports. Officially termed "Lean Beef





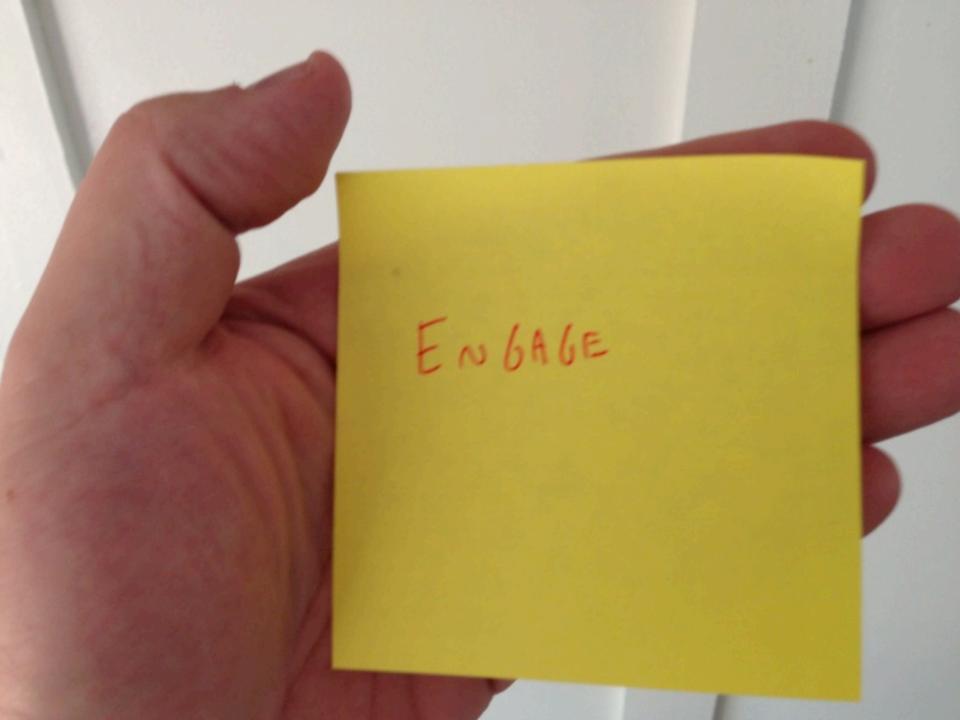


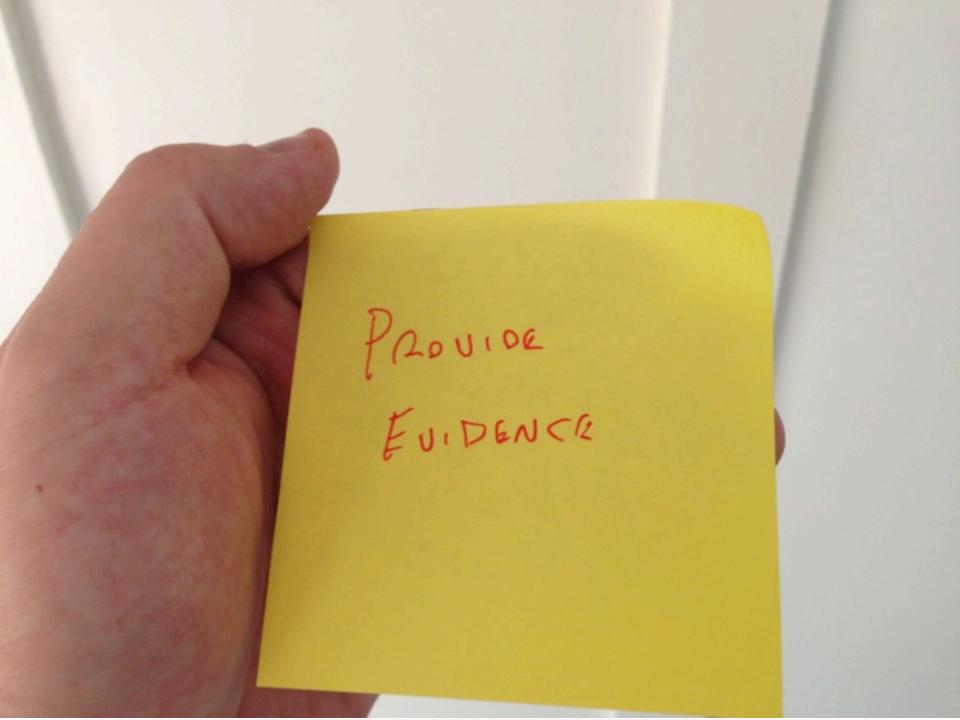












## Yogurt Juggernaut Chobani Has Mold Problem

Sept. 5, 2013

By ALAN FARNHAM via GOOD MORNING AMERICA



# Mucor circinelloides

### noun

1. A mold commonly found in the dairy environment.



Through exte consultation, the set of pro week is a spe-

Please find m

Like - Comment



547 people



432 shares



**Brigid S** take car me and surroun and pay blessing

milk to Like - Re

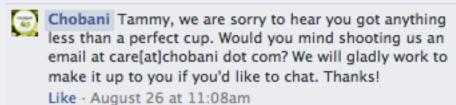








milk! Horrible (4)





Write a reply...







0

#### If I was them



- Would have immediately been a partner in the discussion
  - o instead of responding to complaints begin to tell a story.
- Starts at the first complaint they had (consumer/retail) get the people involved to sit and say what they heard and what they did



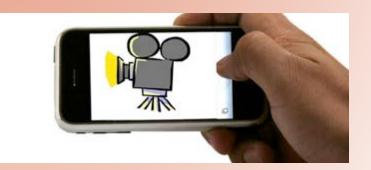




### **Chobani** continued

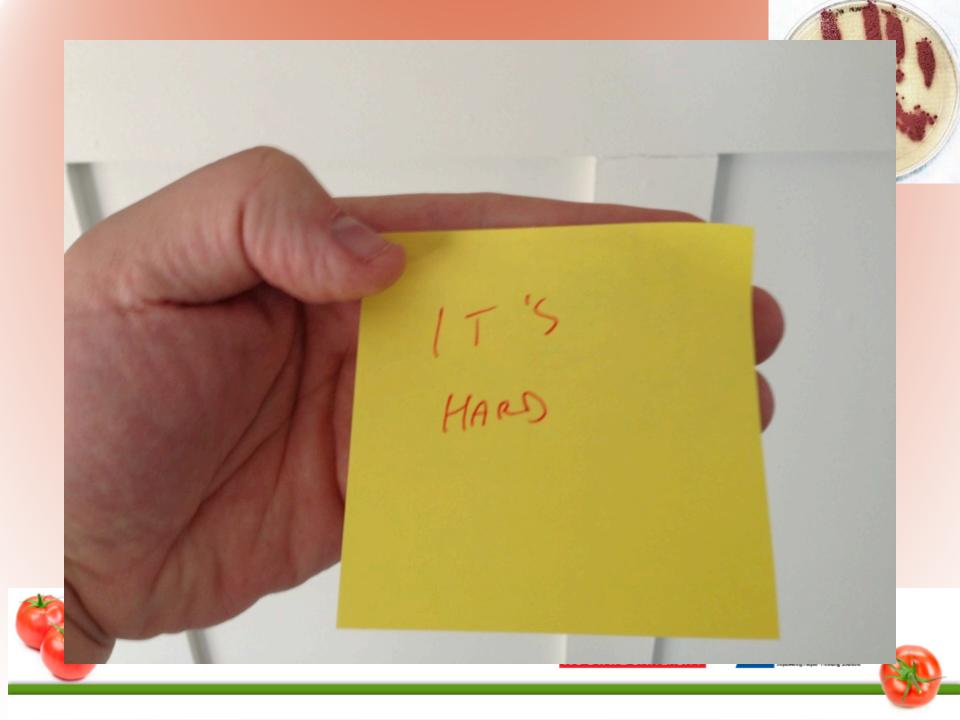


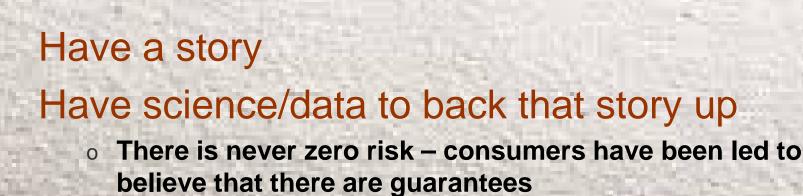
- 1-2 min vignettes from customer service, QA/food safety, COO
  - Say how they got from Aug 24 to today. And continue these vignettes through the process of figuring out what the issue was
  - Explain the mold, what the possible sources are and exactly how they are trying to find the problem/fix it











Tell your story in a genuine way



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# Food Safety Talk

