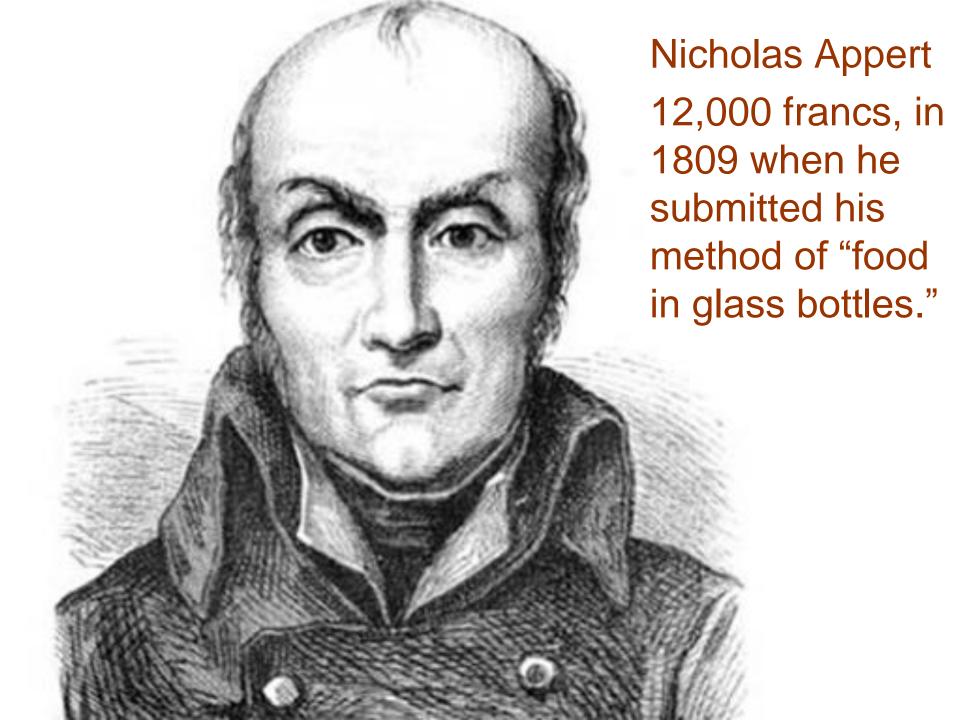


# A Journey Through the Past: Creating and Fostering a Strong Food Safety Culture

Dr. Ben Chapman NC State University June 11, 2015







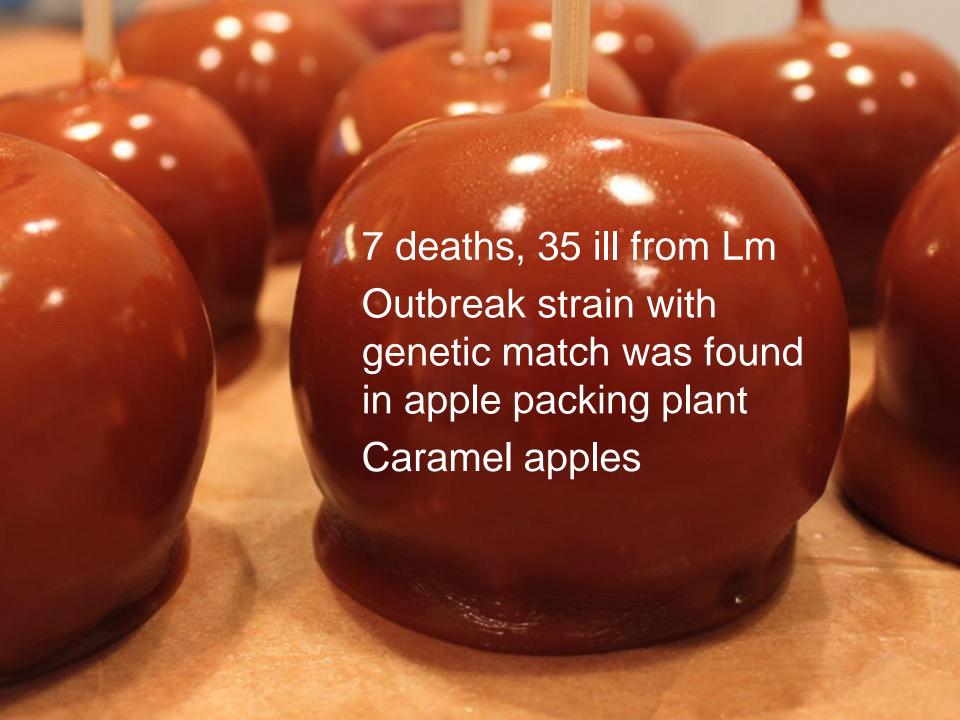












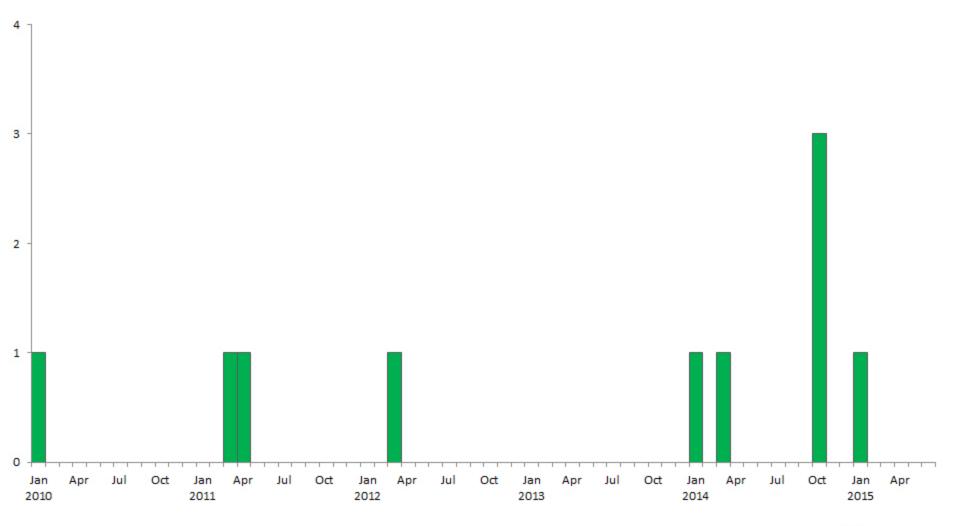








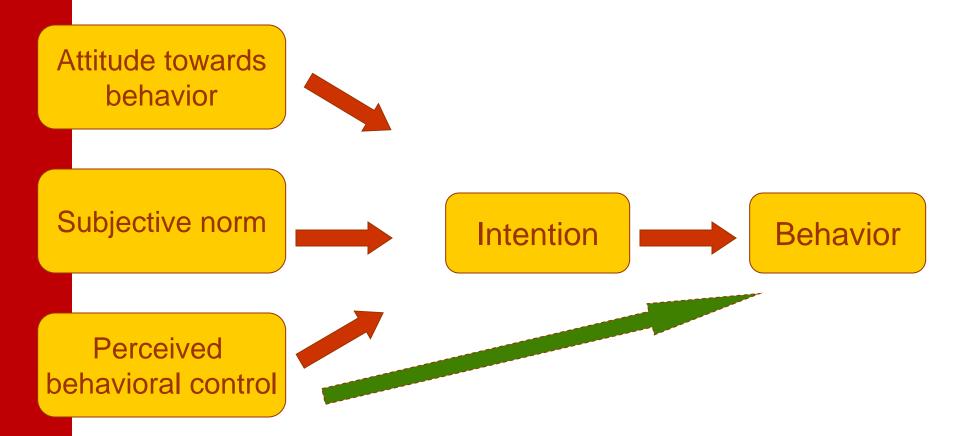




#### Month of Illness Onset







Theory of planned behavior, Ajzen, 1991



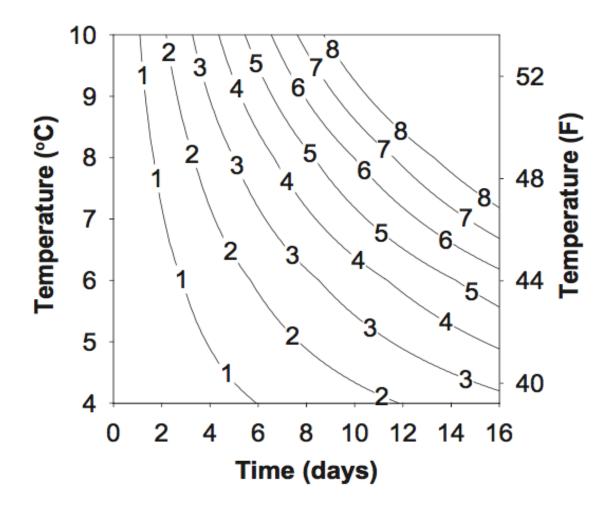








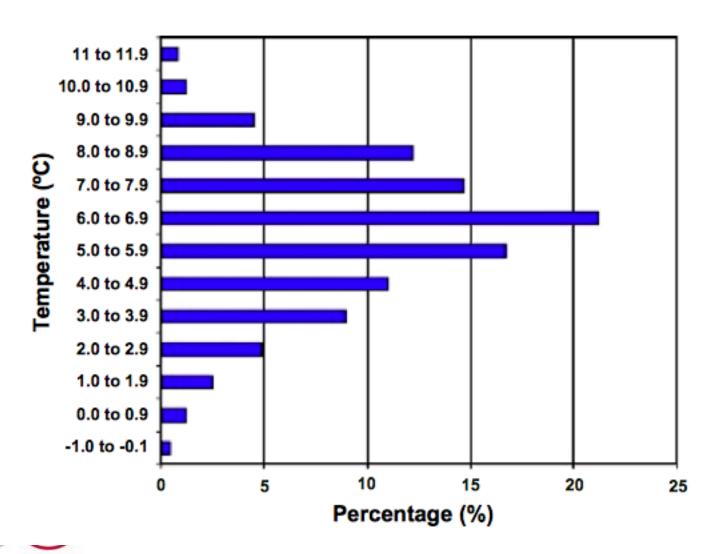
# Is a consumer advisory for handling cantaloupes prudent?



**Fig. 3.** Effect of storage time (x-axis) and temperature (y-axis) on the predicted log CFU/g increase of L. monocytogenes populations (contour lines) on cut melons.



## Kosa, 2007: 11% of all respondents had a thermometer





### California cantaloupes:

http://www.californiacantaloupes.com/our-fruit/storing-and-preparing

University scientists recommend that melons should be washed under running tap water before cutting. If desired, a scrub brush can be used on the melon rind. Melons, like all fresh produce, must be strictly separated from all potential contact with food items such as raw chicken, meat, seafood and eggs. Food preparers should thoroughly wash their hands, utensils, countertops and cutting boards. Do not store cut cantaloupe at room temperature for any length of time. Sliced melon should be stored in the refrigerator until it is ready to be eaten.



Store cantaloupes in the refrigerator but do not freeze.



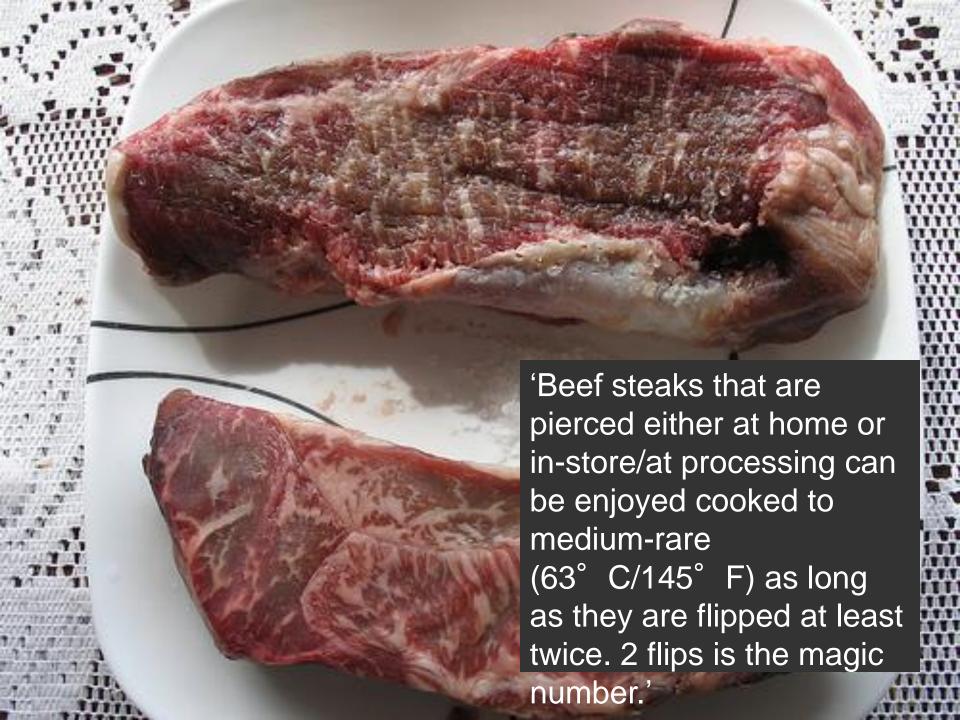
Cut cantaloupes only when you are ready to eat

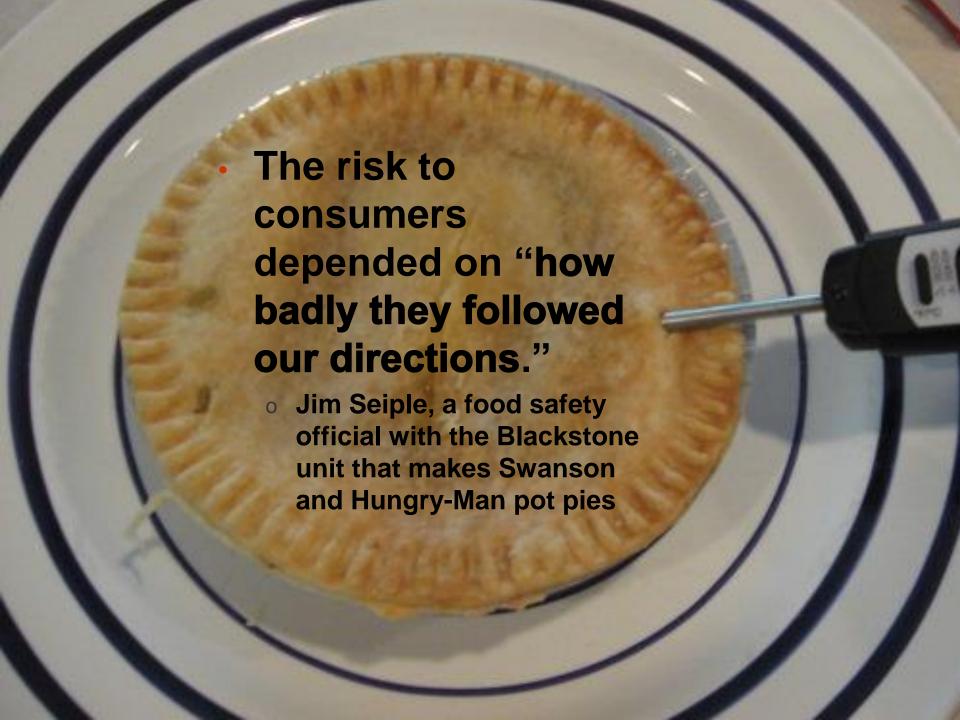




Cut cantaloupes should be wrapped tightly in plastic wrap and put back in the refrigerator immediately









## West Michigan illnesses linked to Detroit meat packing company's ground beef recall

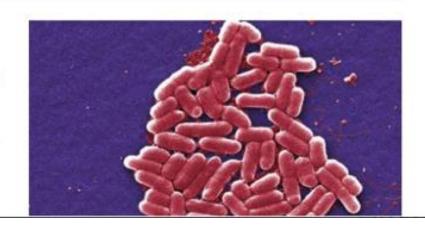
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init

By Sue Thoms | sthoms1@mlive.com
Follow on Twitter
on May 19, 2014 at 8:52 AM, updated May 19, 2014 at 9:27 AM

GRAND RAPIDS, MI - An investigation into an outbreak of E. coli that sickened five Michigan residents, including two in West Michigan, has led to a recall of ground beef by a Detroit meat packing company.

























NC UNI

\*In compliance with new food code regulations, we remind you that consuming raw or under cooked meats, poultry, seafood, shellfish or eggs may increase your risk of food borne illness.

Above Entrees Served with choice of potato, salad & bread NC PIT COOKED BBQ Plate \$9.95 KNOCKWURST 2 grilled knockwurst on a bed of sauerkraut, must horseradish & french bread \$ 9.95 STIR-FRIED VEGGIES over rice or pasta with marinated chicken with grilled shrimp \$12.95 FROM THE GRILL Angus Beef ground on site. Order It RARE! \* Comes with Homen \$3 PHILL DOG mustard, chilli, baco 4oz. \$6.25 6 oz. \$7.50 HEESEBURGER 4 oz \$6 American cheese, chilli, mustard onions 4 oz. \$ 6





Examples of Server Respo

Assurance of safety, even for atrisk groups "Eating medium rare, perfectly fine and no problem..." Told us her sister eating barely brown beef (raw in middle) while she was pregnant and she is just fine.

Incorrect information "The ingredien about meat quality and so long as the o is cooked it is san e that is where most of the bad bacteria is."

Temperature mentioned, but not safe "Medium will be cooked to about 135."

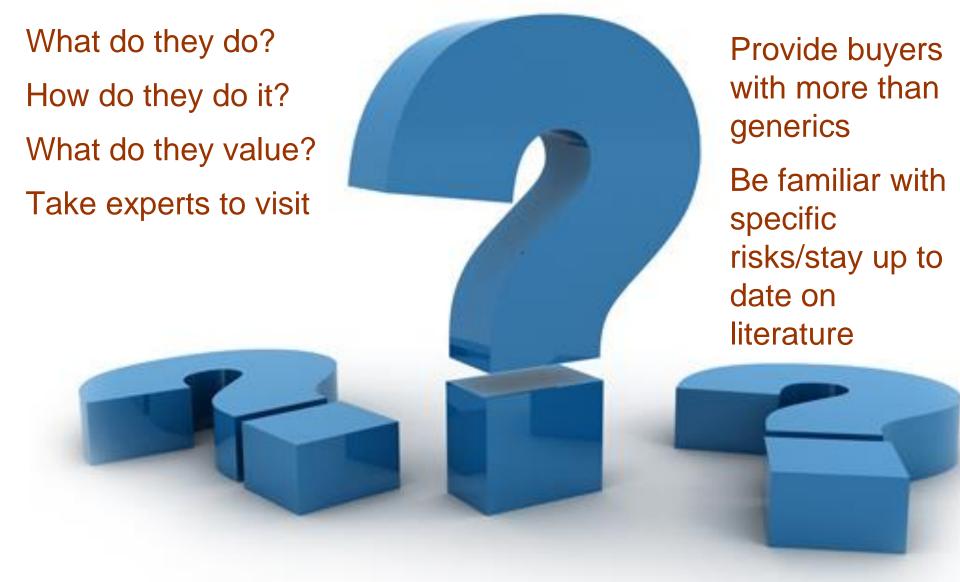
Good risk

communication "I was actually going to tell you about that- we have to remind you that there is a risk when you order undercooked food. You can still get medium rare, just need to let you know about that."

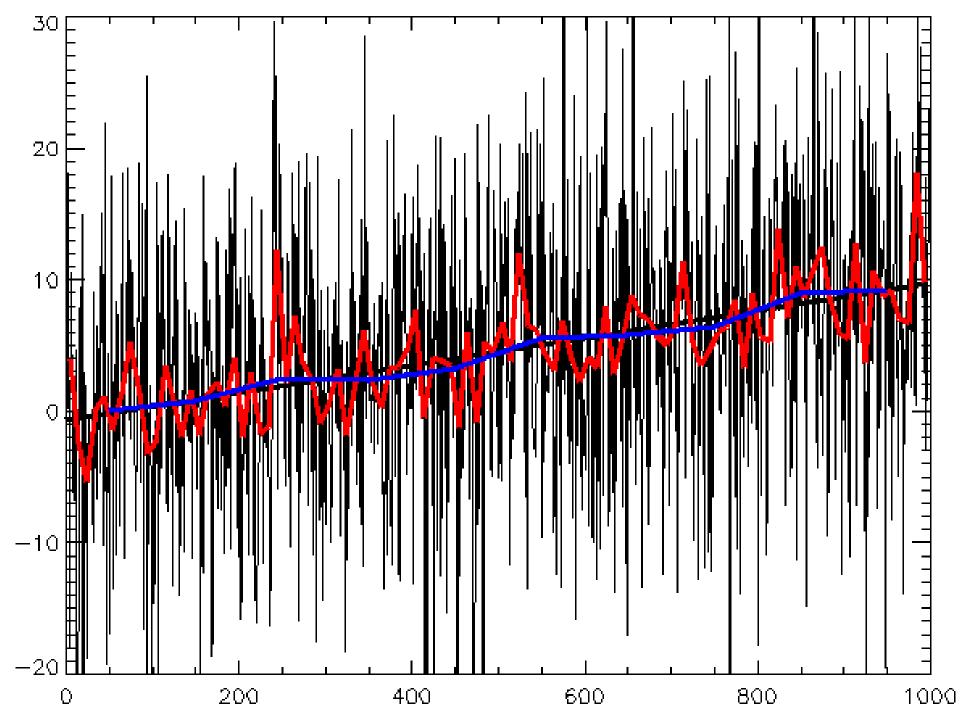




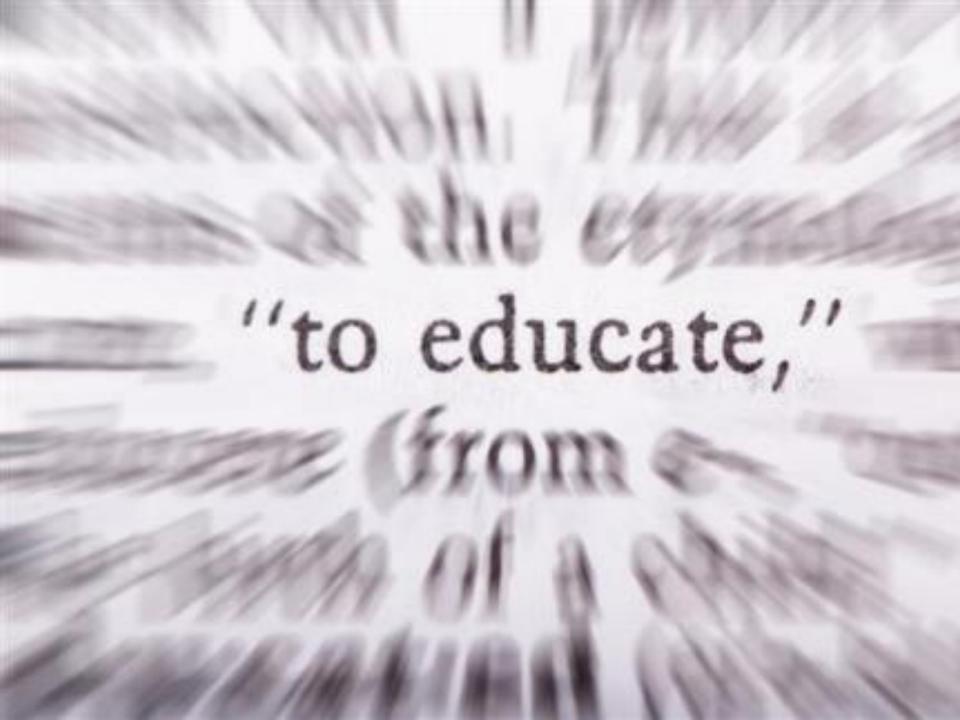




Audit? Sure, but do something with it







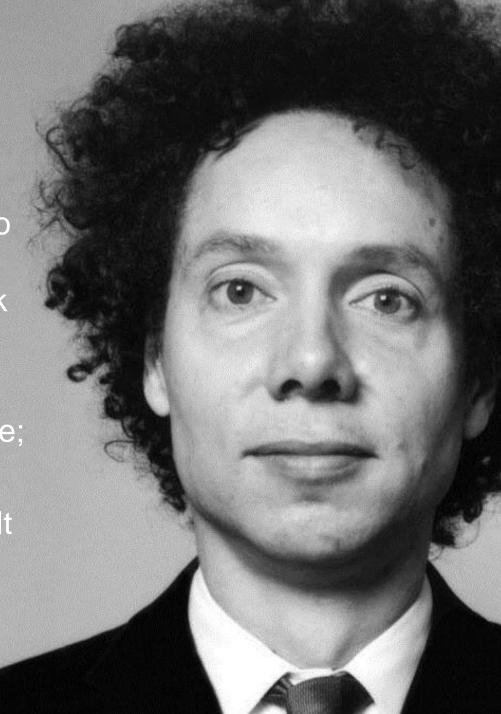


"Legitimacy is based on three things:

(1) The people who are asked to obey authority have to feel like they have a voice - if they speak up, they will be heard;

(2) The law has to be predictable;

(3) The authority has to be fair. It can't treat one group differently from another."



Food safety culture is more than training Know the past, learn from other's experiences Tell consumers more – they want it Be legitimate Focus on behavior (staff and consumers)