











### Clean up?

- Listeria bacteria can grow produce and surfaces at room and refrigerator temperatures.
- Wash the inside walls and shelves of the refrigerator, cutting boards and countertops;
- Sanitize with a solution of one tablespoon of chlorine bleach to one gallon of hot water;
- Dry with a clean cloth or paper towel that has not been previously used.
- Wipe up spills in the refrigerator immediately and clean the refrigerator regularly.

Centers for Disease Control and Prevention

NM

# Poor condition of equipment "Clean" Processing

- "Clean" Processing equipment showed signs of dirt and product build-up
- Rusted and corroded equipment
- Retro fitted potato washer used to clean melons











NM



### Weakness of third party audit

- Failure to Audit for Compliance with FDA Guidance and Best Industry Practices
- Failure to Require Correction of Deficiencies
- No Reporting to FDA or State Officials
- Concerns about Advance Notice and Thoroughness of Third -Party Audits
- Potential Conflicts of interest in Auditor Relationships

# Auditor gave cantaloupe farm high marks before Listeria outbreak

Robert Roos News Editor

Jan 11, 2012 (CIDRAP News) – A private food-safety auditor gave Jensen Farms in Colorado a "superior" rating a few weeks before cantaloupes from the farm were linked to a deadly Listeria outbreak, according to a report from a US House committee.





...the investigation identified significant problems with the third-party inspection system used by growers and distributors to ensure the safety of fresh produce, This auditing system is often the first and only line of defense against a deadly food borne disease outbreak.

NM

NM





NM

(Adapted from RTI International 2009)				
(Adapted Holli KTI International 2003)				
Commodity and category	Pathogen			
In order of prevalence associated with a foodborne outbreak	In order by commodity			
1. Leafy greens =	E. coli O157:H7 (EHEC)			
Lettuce, mesclun, spinach, romaine, leaf, iceberg, bagged lettuce	Salmonella enterica			
	Norovirus			
2. Tomatoes =	Salmonella enterica			
Roma, cherry, grape	Norovirus			
3. Melons =	Salmonella enterica			
Watermelon, cantaloupe, honeydew, musk	E. coli O157:H7 (EHEC)			
3. Crucifers =	E. coli O157:H7 (EHEC)			
Cabbage, coleslaw, broccoli	Cryptosporidium parvum			
4. Mixed produce =	E. coli O157:H7 (EHEC)			
Salads (lettuce, vegetable or fruit based, garden, green, house,	Salmonella enterica			
chef, cucumber); mixed vegetables, mixed fruit, green bean				









	Requirement	Harmonized	GAPs	Corrective Action
1.	General Questions	riocedure	Vermeation	Corrective Action
1.1.	Management Respon	sibility		
1.1.1.	A food safety policy shall be in place.	A written policy shall outline a commitment to food safety, in general terms, how it is implemented and how it is communicated to employees, and be signed by Senior Management.	The auditor observes the food safety policy, observes that it is signed by Senior Management, and observes that it has been communicated to all employees in a manner that can be understood.	The operation creates or revises the policy, or its communication to employees, to be in compliance.
1.1.2.	Management has designated individual(s) with roles, responsibilities and resources for food safety functions.	The foot safety plan shall designate who has the responsibility and authority for food safety, including a provision for the absence of kep personnel. Twenty-four hour contact information shall be available for these individuals in case of food safety emergencies. The organization's senior management shall determine and provide, in a timely manner, the resources needed to implement and maintain the food safety plan.	Auditor observes that the food safety plan has identified individual(s) for key food safety activities. Auditor verifies that procedures include provisions for when the identified individual is not present. Auditor observes whether Senior Management has provided the resources needed to implement and maintain the food safety oblan.	Operation identifies individual(s) for key food safety activities in the food safety plan. Operation identifies actions to be taken when the identified individual(s are not present. Senior Management commits resources needed to implement and maintain the food safety plan.

Nº	Control Point	Compliance Criteria	Level	Yes	No	N/A	Justification
AF	ALL FARM BASE						
	Control points in this module are applicable to all producers seeking certification as it covers issues relevant to all farming businesses.						
AF. 1	SITE HISTORY AND SITE MANAGEMENT				-	-	
	One of the key heatures of austainable farming is the continuuus integration of site- specific hourselega and practical experiences into fluxer management planning and practices. This section is intended to ensure that the land, buildings and other facilities, which constitute the facility of the factor of the fluxer safe production of food and protection of the environment.						
AF. 1.1	Site History					-	
AF. 1.1.1	Is a reference system for each field. orchard, greenhouse, yant, jobi, livestok buildingipen, and/or other area/location used in production established and referenced on a farm plan or map?	Compliance must include visual identification in the form of a physical sign at each field/orchard, greenhouse/yardipic0livestock buildingipen or other farm areaflocation, or a farm plan or map that could be cross- referenced to the identification system. No NVA-				X	
AF. 1.1.2	Is a recording system established for each unit of production or other areaflocation to provide a record of the livestock/aquaculture production and/or agronomic activities undertaken at those locations?	Current records must provide a history of GLOBALG.A P production of all production areas. No N/A.	Major Must			X	







### In plain sight:

**FDA report**: Factors that likely contributed to the contamination of cantaloupes:

### **Growing Environment:**

• Low level sporadic *Listeria monocytogenes* in the agricultural environment and fruit contributed to the introduction of the pathogen into the packing facility.

NM

NM



### Packing Facility and cold Storage:

- A truck used to haul culled cantaloupe to a cattle operation was parked adjacent to the packing facility.
- Facility design allowed for the pooling of water on the packing facility floor adjacent to equipment and employee walkway access to grading stations.



## Packing Facility and cold Storage:

- The packing facility floor was not easily cleanable;
- The packing equipment was not easily cleaned and sanitized.
- The washing and drying equipment **was previously used** for postharvest handling of another raw agricultural commodity.
- There was no **pre-cooling step to remove field heat** from the cantaloupes before cold storage.

NM