

PRODUCE SAFETY

• Recent outbreaks related to fruit with peels

- Pomegranate Seeds Hepatitis A, 2013
- Mangoes Salmonella, 2012

Why include fruit with peels?

- Cantaloupe Salmonella, 2012
- Cantaloupe Listeria monocytogenes, 2011
- Papaya Salmonella, 2011
- Melons Salmonella, 2011
- Mamey Salmonella, 2010

PRODUCE SAFETY Why include fruit with peels?					
Jutbi	reaks re	lated to C	itrus	Juice	
Type	Product	Pathogen'	Tear	Location	Venue
brange	Unpasteurized	Enterotoxigenic E. coll	1992	India	Roadside vendor
	Unpasteurized	Salmonella Gaminara, Hartford and Rubislaw	1995	USA (FL)	Retail
	Unpasteurized	Shigella flexneri	1995	South Africa	Restaurant
	Unpasteurized	Virus suspected	1996	USA	Food Service
	Unpasteurized	S. Muenchen	1999	Canada and USA	Restaurant
	Unpasteurized	S. Anatum	1999	USA (FL)	Roadside stand
	Unpasteurized	S. Typhimurium	1999	Australia	Retail
	Unpasteurized	S. Enteritidis	2000	USA (6 states)	Retail and Food Service
	Unpasteurized	Salmonella Typhimurium and Saintpaul	2005	USA (23 states)	Retail and Food Service
	Reconstituted	S. Typhi	1944	USA (OH)	Hotel
	Reconstituted	Hepatitis A	1962	USA (MO)	Hospital
	Reconstituted	Unknown	1965	USA (CA)	Football game
	Barrow and a stand	6 Tunki	1000	LICA (NDO)	Manal

PRODUCE SAFETY

Approach?

- Takes a "risk based" approach that looks at "high risk" practices not "high risk" commodities
 - Allows for different practices
 - Recognizes further processes and rarely consumed raw
 - Recognizes not all water or soil amendments are the same
 - No prescriptive requirements for uncontrollable factors (i.e. wildlife)

PROPOSED PRODUCE SAFETY RULE

Agricultural Water?

• Inspect entire water system "under your control" (source, distribution system, facilities and equipment).

• Water that:

- •Directly contacts product during/after harvest
- •Used to make "agricultural tea"
- \circ Used to clean food contact surfaces
- •Used to wash hands No concrete F colimin 100 m
- No generic E. coli in 100 ml water

PROPOSED PRODUCE SAFETY RULE

Agricultural Water?

- \circ Directly contacts produce preharvest
- <235 E. coli in 100 ml (single sample)
- <126 E. coli in 100 ml (5 sample rolling geometric mean)

Geometric Mean of 5 Water Samples = ((N1)(N2)(N3)(N4)(N5))^{1/5}



No testing if public source or treated water



FSMA – FDA FACT SHEETS

• Agricultural Water

- <u>http://www.fda.gov/downloads/Food/Guidance</u> <u>Regulation/FSMA/UCM360242.pdf?source=go</u> <u>vdelivery</u>
- Alternatives and Variances
 - <u>http://www.fda.gov/downloads/Food/Guidance</u> <u>Regulation/FSMA/UCM360248.pdf?source=go</u> <u>vdelivery</u>
- Commodities Related to Outbreaks
 - <u>http://www.fda.gov/downloads/Food/Guidance</u> <u>Regulation/FSMA/UCM360758.pdf?source=go</u> <u>vdelivery</u>



























