# CTAHR's role with FSMA and Good Agricultural Practices (GAPs)

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## Safe Food Handling is a Public health Concern

- \* Standards are not new to food related businesses
- \* To prevent and reduce illness, disability, and death due to eating foods contaminated with physical, chemical, and microbiological hazards on farm





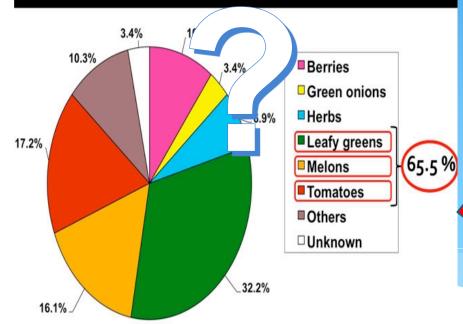








Types of produce Associated with Outreaks, 1996-2009 (N=87)



Source Credit FDA/CFSAN 2011

46% of all foodborne Unesses that led to hospitalization or death between 1998-2008 attributable to fresh produce



# Impacts Hawaii's Tourist Economy and our families



http://www.tripadvisor.com/LocationPhotos-g60982-Honolulu\_Oahu\_Hawaii.html#40821049





#### FSMA-GAP-Audits

## HAWAII FARM FOOD SAFETY PROGRAM-EDIBLE CROPS OVERVIEW & OUTREACH

#### **FSMA**

Food Safety Modernization Act (MANDATORY) USDA FDA'S

GAP

Good Agricultural Practices
Good Manufacturing Practices
(VOLUNTARY)

3<sup>rd</sup> Party Independent

Food Safety Audits (VOLUNTARY)

**BUYER/CONSUMER DRIVEN** 

# Food Safety Modernization Act (FSMA) Produce Rule key points

- \* Produce Safety Rule to be final on October 31, 2015
- \* Includes standards for growing, harvesting, packing, and holding produce
- Water quality
- \* Manure application meets National Organic Program standards, delete compost pre-harvest interval
- Excluded farms and procedures for withdrawing exemptions
- \* Wildlife management does not require excluding animals from outside growing areas or destroying animal habitats

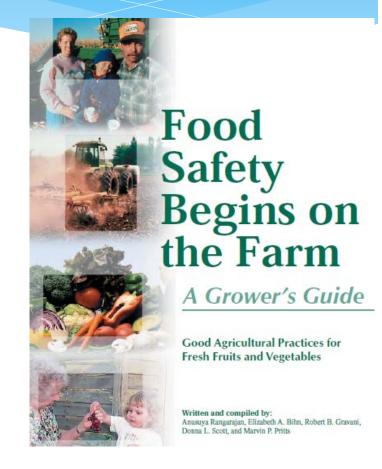


- Very small farm, \$25,000 \$250,000 annual produce
   sales, 4 years to comply
- \* Small farm, >\$250,000 \$500,000 produce sales, 3
  years to comply
- \* All other farms, 2 years to comply

## Adopting GAPs Benefit Growers

GAPs offer science- and experiencebased **risk-reduction guidelines** that align with FSMA requirements.

- \* Harm reduction food safety plan
- Focus on key risk areas
- \* Provides marketing opportunities
- Satisfaction of providing safe, fresh, local produce



## Key GAP areas

- \* Site history
- \* Worker hygiene/ sanitation
- \* Water quality & application
- \* Domestic & wild animals
- \* Safe use of manure, compost & fertilizers
- \* Safe pest control and record keeping
- \* Traceback
- \* Agrosecurity



## Personal Hygiene



## Personal Hygiene

- Check employee health, sick employees should not handle food
- \* Blood or other body fluids on produce is an automatic failure of audit
- \* Treat and cover open cuts and sores
- \* Have Standard Operating Procedures (SOPs and records in your food safety plan)



## Water Quality

- Assess the quality of water
- Match irrigation method to water quality and use (e.g. potable water for overhead irrigation, pest control and washing)
- Match water quality to crop (e.g. nonpotable water for irrigating orchard crops)
- \* Test your water, more often if the source is more risky (surface, non-potable, catchment, etc.)



## Domestic and Wild Animals



## Manure, Compost and Fertilizers



## Pest Control and Recordkeeping



## Harvest and Post-Harvest Handling

- Clean hands, tools, harvest equipment, and containers
- Exclude drops and damaged product
- \* Wash with potable water



### Traceback

- \* Traceback date and field of harvest
- \* Traceforward who received your product



## Agrosecuirty

- \* Limit access to farm, water sources, and chemicals
- Report unusual activity
- \* Use Signage



## 3<sup>rd</sup> Party Independent Audit

- Buyers are requiring 3<sup>rd</sup> party audits
- Primus audit was chosen by your company
- GAP Guidelines
- Based on a point system

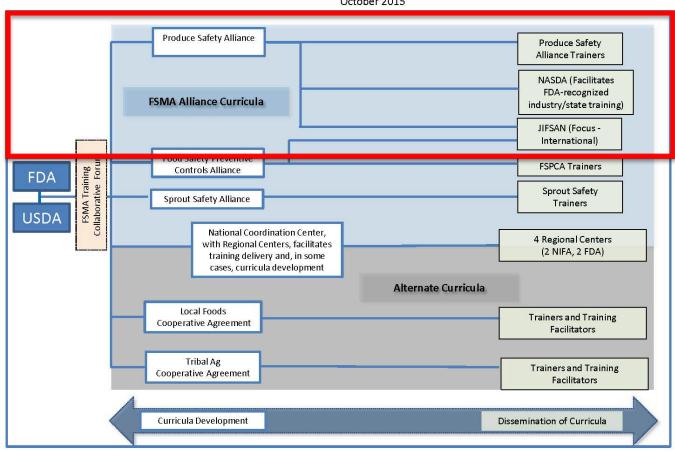






## Moving Hawaii's Growers Forward

#### FSMA Framework for Industry Curriculum Development and Dissemination October 2015



This is not an all-inclusive list of entities that will be developing training curricula and delivery for domestic and foreign food businesses.

## **Next Steps**



Western Training, Education, Extension, Outreach, and Technical Assistance Center to Enhance Produce Safety

#### Mountain

Colorado Nevada New Mexico Montana Utah Wyoming

#### Southwestern

California Arizona

#### **Pacific**

**Hawaii** Guam American Samoa

#### Northwestern

Oregon Washington Idaho Alaska

# Western Training, Education, Extension, Outreach, and Technical Assistance Center to Enhance Produce Safety



#### **Extension Service**

#### Mountain

Colorado Nevada New Mexico Montana Utah

Wyoming

#### Southwestern

California Arizona

#### **Pacific**

Hawaii Guam

American Samoa

#### Northwestern

Oregon Washington Idaho Alaska

## Food Safety is a Team Effort!



#### CTAHR:

- Provide statewide educational workshops for all growers and develop educational tools
- \* Help build capacity by providing GAP training for other educators/trainers Develop additional education and training tools

#### HDOA:

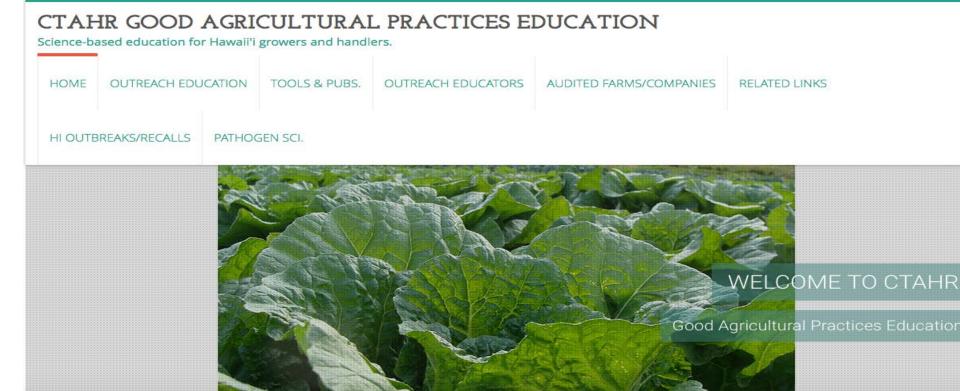
- Develop audit capacity statewide (USDA)
- \* Resource support if available

Hawaii Farm Bureau Federation, Hawaii Farmer's Union United, etc.:

Provide outreach support to members and potential growers

#### **HAWAII PRODUCE GROWERS:**

Adopt GAPs to provide safe, fresh produce



http://manoa.hawaii.edu/ctahr/farmfoodsafety/

- \* Cornell GAPs <a href="http://www.gaps.cornell.edu">http://www.gaps.cornell.edu</a>
- \* Produce Safety Alliance (PSA)
  http://www.producesafetyalliance.cornell.edu
- \* FDA Produce Safety Rule
  http://www.fda.gov/Food/GuidanceRegulation/FSMA/ucm30
  4045.htm