



# Invasive Species Update

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Invasive species continue to be a significant threat to Hawaii's agriculture, economy, environment, and human wellbeing

Invasive species management is a priority for CTAHR (teaching, research, extension)





DEPARTMENT OF

# Plant and Environmental Protection Sciences

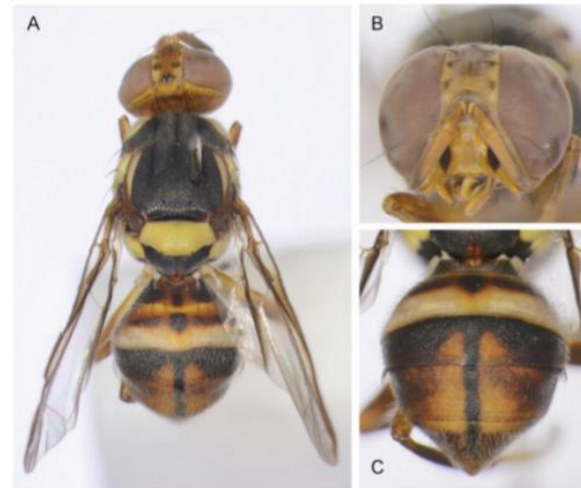
- Spearheads invasive species research, teaching, and extension for CTAHR
- Twelve tenured/tenure-track faculty
  - Manoa (11)
  - Kauai (1)
- Recruitment of three positions
  - Pesticide Safety/Invasive Species Agent
  - Plant Pathology Specialist
  - Arthropod Identification Specialist



# Prevention



Development of diagnostic tools for important pest and pathogens not present in Hawaii



# Early Detection



Cooperative Agricultural  
Pest Surveys for exotic  
pests and pathogens of  
State and Federal interest



# Early Detection

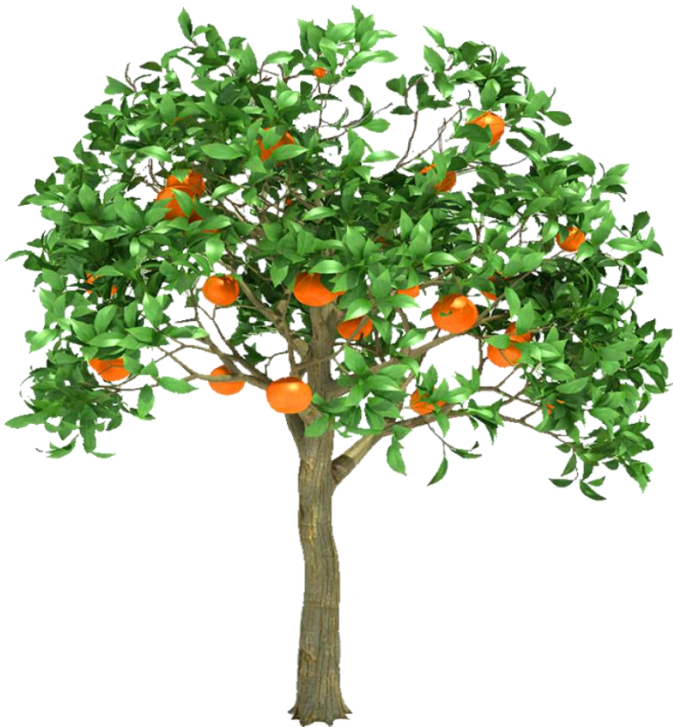


Huanglongbing (HLB)  
(a.k.a. “Citrus greening”)

Hawaii and Arizona  
remain HLB-free

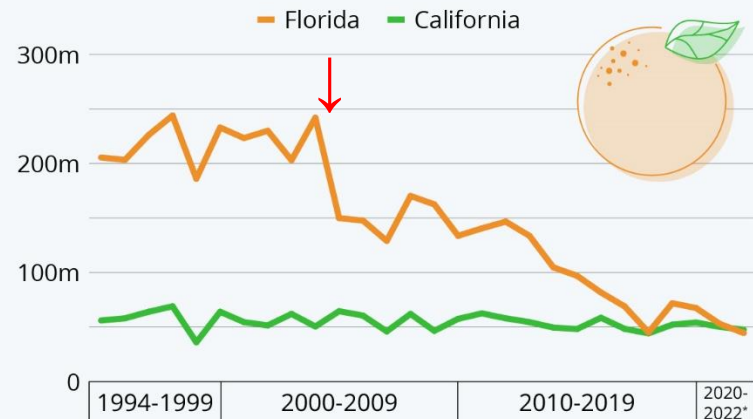


# Early Detection



## Florida Orange Crop Expected To Reach New Low

Production of Florida and California oranges and projection for 2021/2022 season (in 90-pound boxes)



\* 2021/2022 season: January forecast  
Source: USDA



statista

↓ pathogen introduction



# Rapid Response

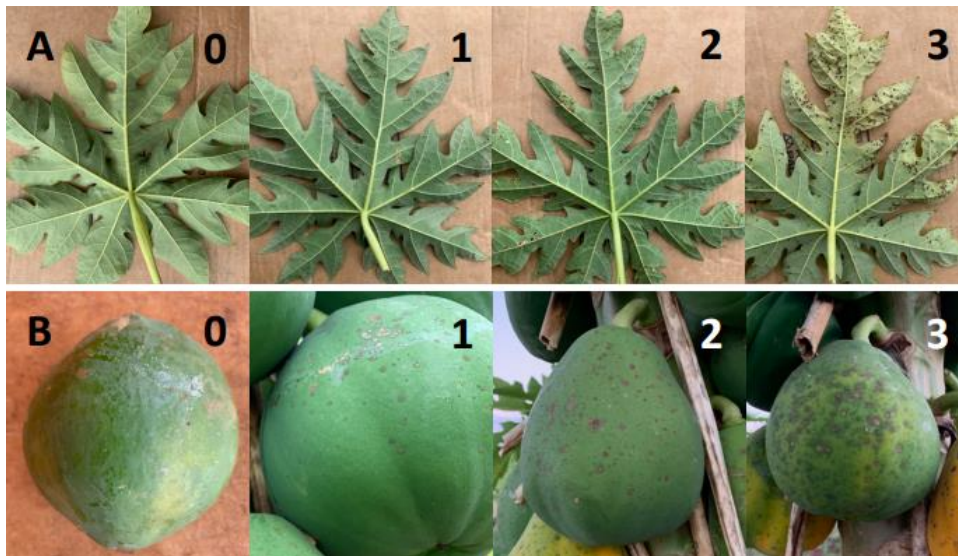
Eradication or suppression  
of nascent invasive species  
populations





# Long Term Management

Fundamental and applied research aimed at limiting the impact of invasive species



# Long Term Management



## Modern Biocontrol Facilities



# Education



**PaCoN**  
PACIFIC CONTINENTAL NETWORK

- \$7M Education award from USDA-NIFA
  - UH Manoa, Leeward CC, Oklahoma State
  - Next Generation of Biosecurity Professionals
  - Targeting NHOPI and TNA students



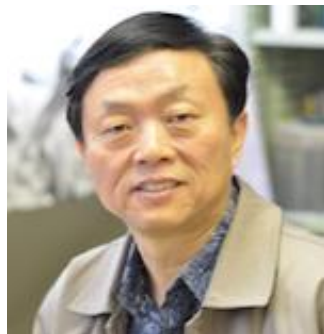
# Acknowledgements



Koon Hui  
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Hu



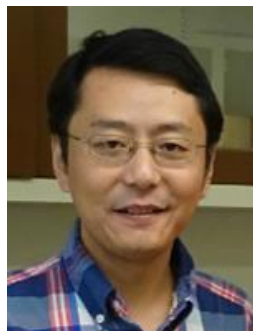
Ikkei  
Shikano



Brent  
Sipes



Hector  
Valenzuela



Zhiqiang  
Cheng



Roshan  
Manandhar



Daniel  
Rubinoff



Jia-Wei  
Tay



Miaoying  
Tian



Mark  
Wright



Daniel  
Jenkins

