



Tomato Yellow Leaf Curl Virus

- Devastating disease of tomato first detected in 2009
- Vectors are the silver leaf (Bemisia tabaci) and the sweet potato whitefly (Bemisia argentifolii)
- UH CTAHR screened several dozen varieties for TYLCV tolerance in replicated field trials from 2009-2016









People, Place, Promise

Summary: UH Field Trials from 2009-2016 (with Melzer, Kaufman, Tateno, & Wright, etc.)

- Varieties exist with tolerance to TYLCV strains on Oahu based on tissue blot test:
 - Beef Steak Type (12):
 - Adonis, PIK Ripe 461, Pamela, Sacramento, VT-62940, VT-62966, Tovi Star, Tovi Roca, VT-62966, Yaqui, Xaman (Roma) and Tygress
 - Specialty Type (7):
 - Grape: 72618, Rona, Rojita, Komohana
 - Cherry: Felicity, Hathor, Sarina

Online Publications:

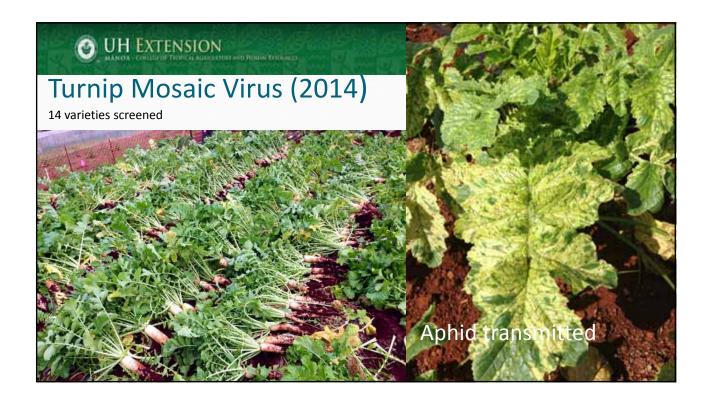
http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-70.pdf

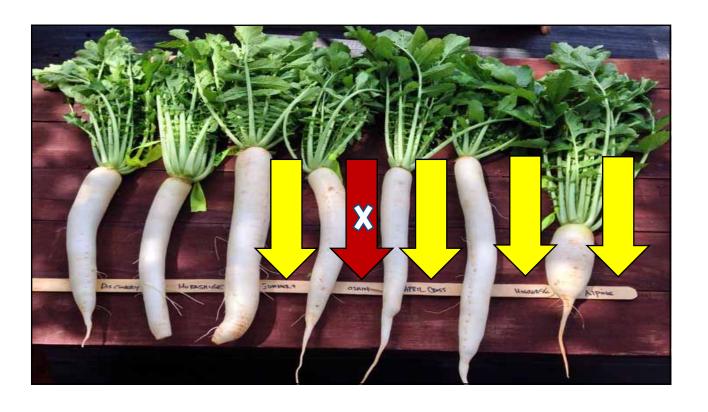
http://www.ctahr.hawaii.edu/oc/freepubs/pdf/PD-78.pdf

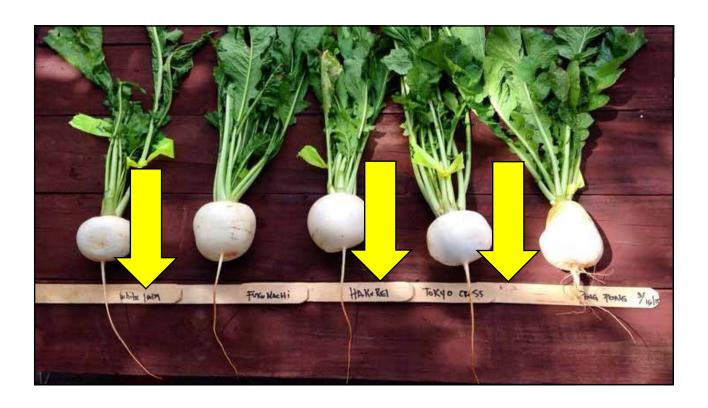
http://www.ctahr.hawaii.edu/sustainag/news/articles/V12-Uyeda-OrgTomato.pdf

http://www.ctahr.hawaii.edu/sustainag/news/articles/V22-Tateno-tomato.pdf

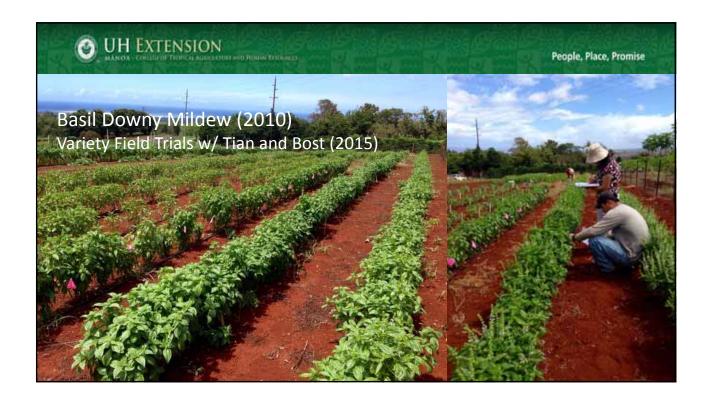
http://www.ctahr.hawaii.edu/e-notes/downloads/Field day handout last version.pdf



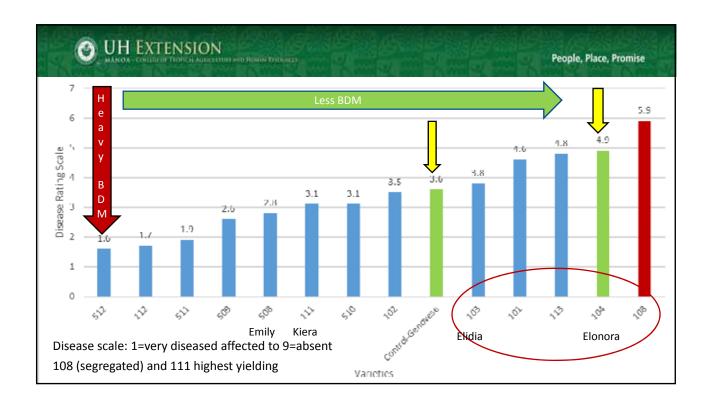


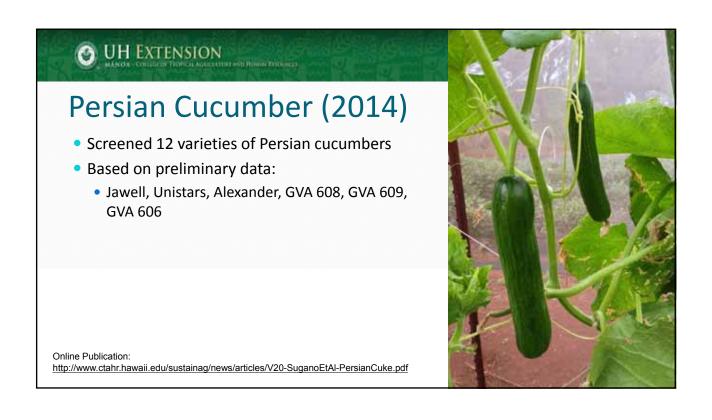


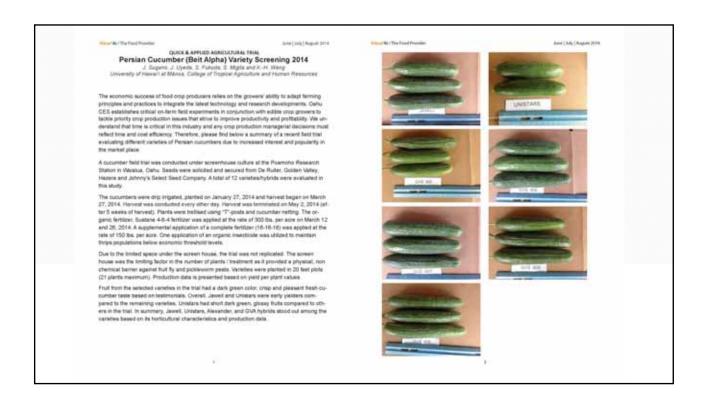




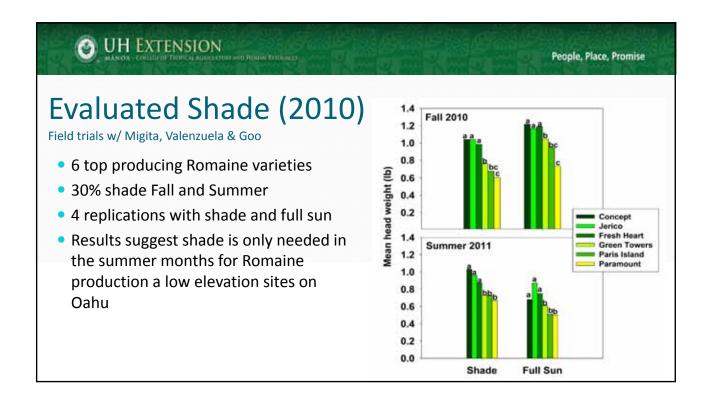


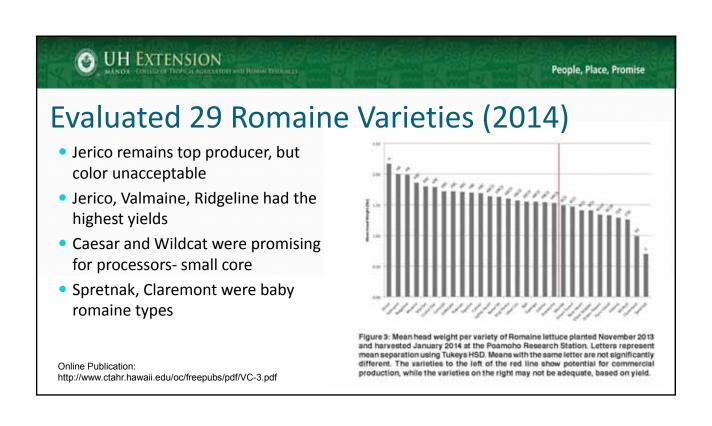












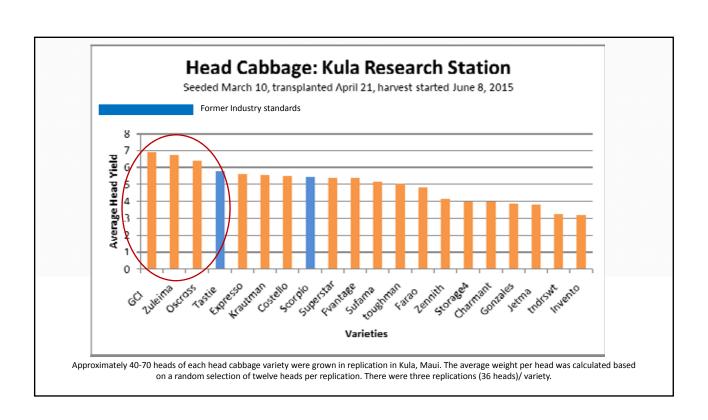


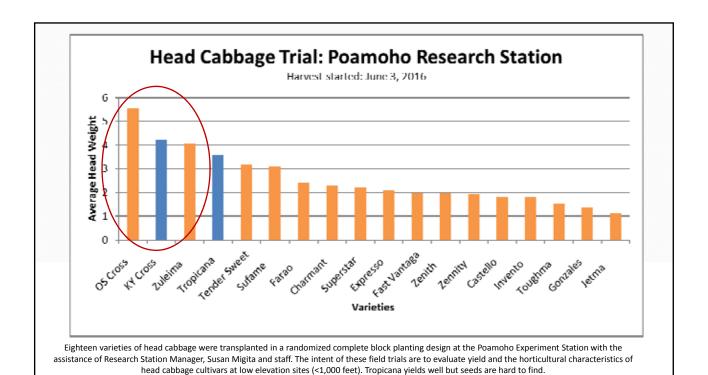


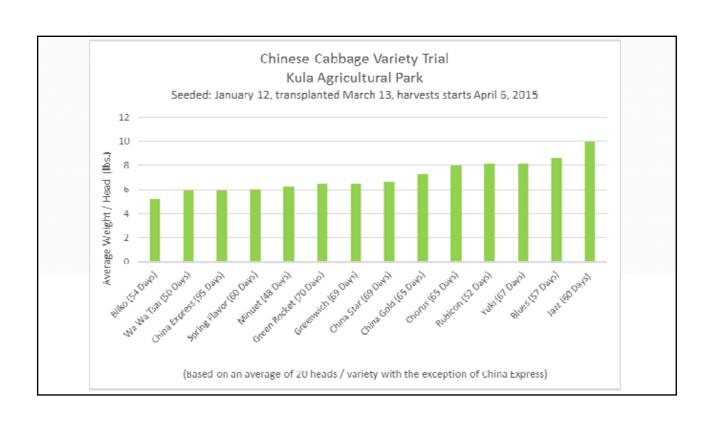


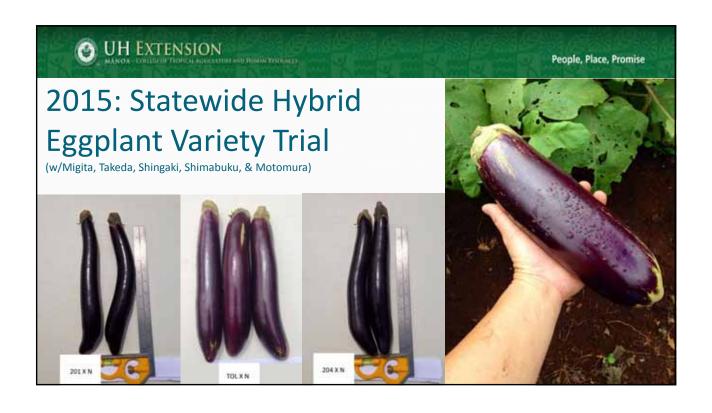


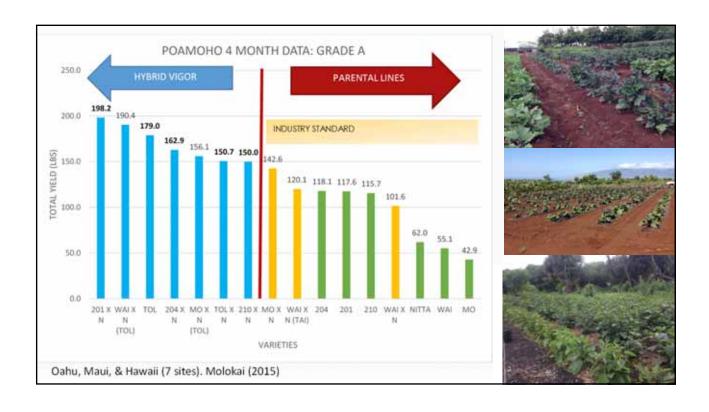


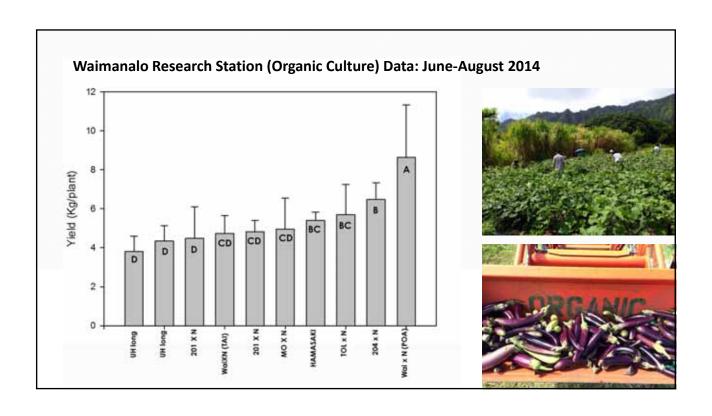


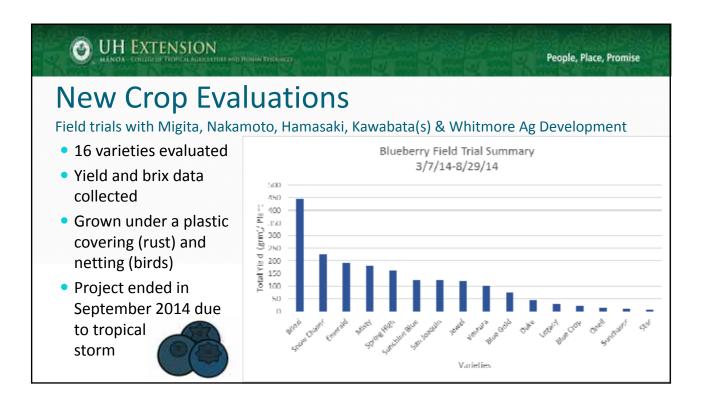








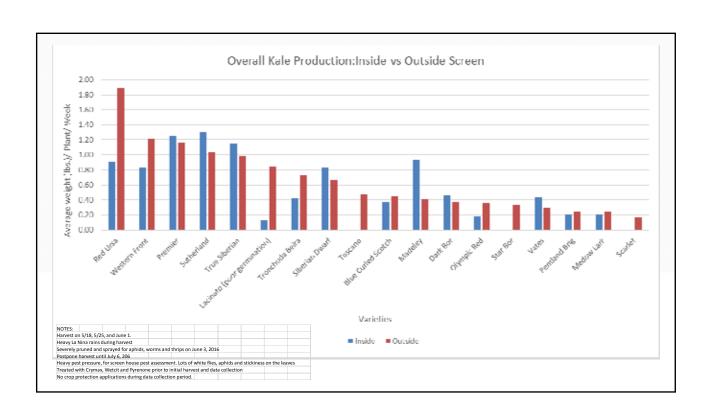














People, Place, Promise

Suitability

- Each location varies
- Screen recommended varieties in your respective areas
- Stay current with seed companies and their offerings
 - Hawaii's market share is small, varieties can be discontinued without notice
- Utilizing varieties with tolerance to pests and disease is just way to manage pest in an IPM system





People, Place, Promise

For More Information

Jari S.K. Sugano
University of Hawaii at Manoa
College of Tropical Agriculture and Human Resources
Department of Plant and Environmental Protection Sciences
Wahiawa Extension Office
suganoj@ctahr.hawaii.edu
622-4185



COOPERATIVE EXTENSION

CERLEGE OF TROPERAL ACRESSATIONS AND HUMAN RESIDENCES.
THOUSANDLY OF HUMAN AT MINERS.