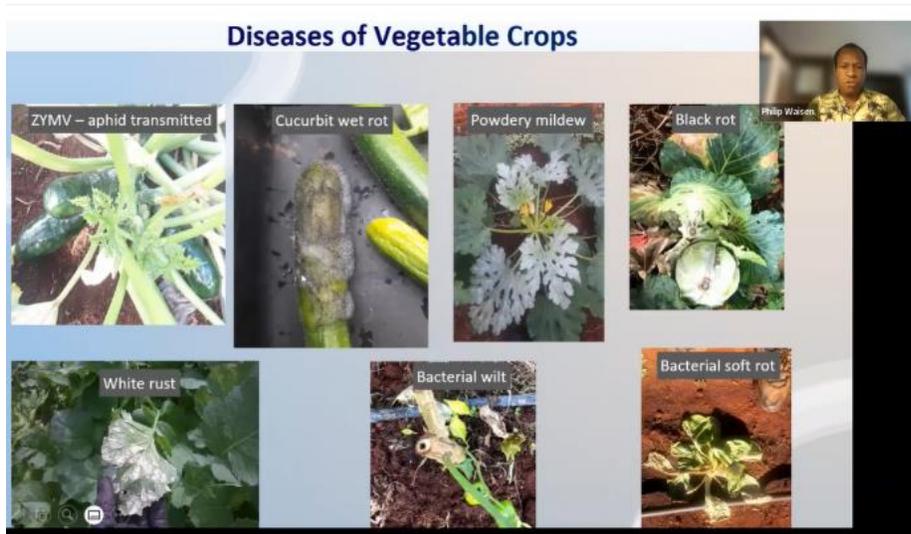


Vegetable Crops and IPM Webinar

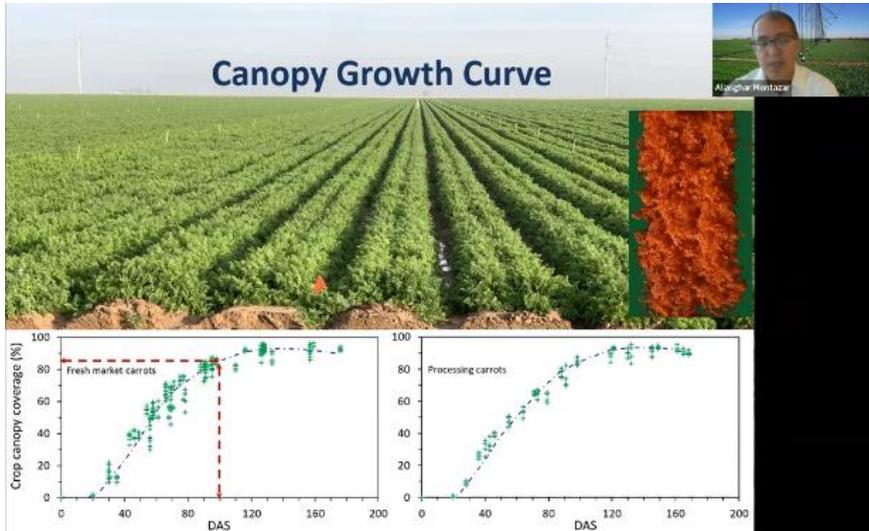
University of California Cooperative Extension Imperial County held a Vegetable Crops and IPM Workshop (Webinar) on March 10, 2021. This virtual workshop was held with 14 speakers / or panelists from UC Davis, UC Riverside, UCCE Imperial County, UCCE Kern County, UCCE Riverside County, UC Desert Research and Extension Center, California Department of Food and Agriculture, California Climate & Agriculture Network, and industries and private sectors who brought innovative ideas, solutions, and disseminate the outcomes of their recent studies and programs in vegetable production and pest management. A wide range of topics, including various studies on carrots, onions, lettuce, spinach, and food safety were presented and discussed during the webinar. Highlights of the presentations are shown below:



Dr. Philip Waisen delivers a talk on research and extension program on vegetable crops in desert.



Dr. Linda Harris delivers the updates to produce safety rule proposed revisions to Subpart E – Agricultural Water.



Dr. Ali Montazar delivers a talk on new information developed on water-nitrogen best management practices in desert carrots.

LETTUCE Favorable Conditions

*in canopy

Time

Morning

Night

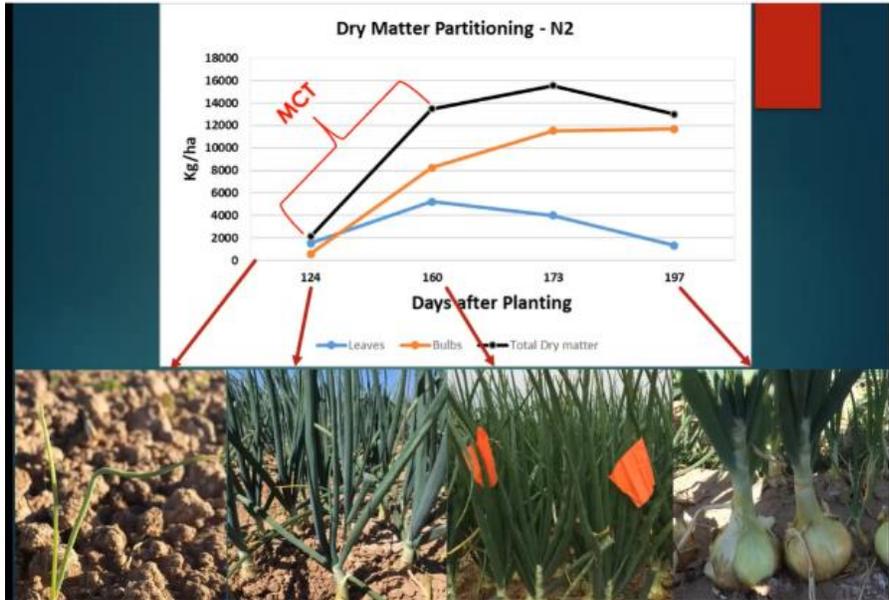
- Spores
- Infection
- Symptoms

- At least 3 hours of leaf wetness
 - Beginning at sunrise
 - 4 hours if temps >59°F
- Air temperatures from ~41°F to 70°F
 - Optimum: 50°F to 59°F
- High relative humidity (>90%) or leaf wetness overnight
- No to light winds

Sporulation

Dr. Alex Putman delivers a talk on downy mildew in vegetable crops

Dr. Emad Jahanzad delivers a talk on Fertilizer Research and Education Program (FREP): resources and opportunities for Vegetable production.



Dr. Jairo Diaz delivers a talk on irrigation and nutrient management of drip irrigated onions in Imperial County.

Nov, 15

Dec, 23

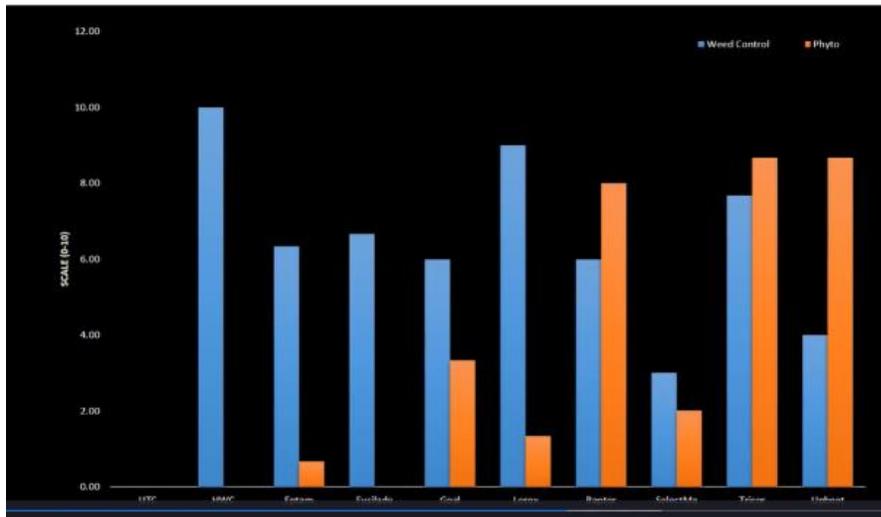
Thrips collection by whole plant washing method

60% of total samples yet to count

Photo description: A collage of four photos. Top left: A wide view of a lettuce field with rows of plants. Top middle: A close-up of lettuce leaves with a white plastic bag. Top right: A person in a white protective suit working in a field. Bottom left: A person in a blue shirt working in a field. Bottom middle: A person in a red shirt working in a field.

Dr. Apurba Barman delivers an update on current effort to mitigate risk of INSV incidence in desert lettuce.

Weed Control and Phytotoxicity 14 DAA



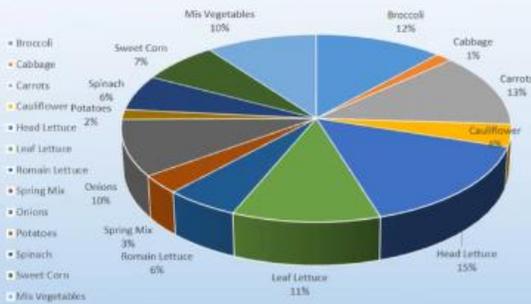
Dr. Jaspreet Sidhu delivers a talk on herbicide evaluations and streamlining the use of Dual Magnum in carrots.

MEAN OLAM 41 DEHYDRATOR ONION YIELDS (TONS/ACRE) FOLLOWING PRE-GERMINATION SOIL SURFACE BIOSTIMULANT APPLICATION AND SUBSEQUENT FOLIAR APPLICATIONS, BLYTHE, CA 2019-2020



Michael Rethwisch delivers a talk on low desert dehydrator onion yield responses to bio-stimulants.

Vegetable Crop Acreage Proportion, 2010-2020 (Average 113,280)



From 2010-2020, Veg. crops harvested acreage averaged ~113,280.

- *Lettuce* (sum of all varieties: head, leaf, romaine and spring mix (15%+11%+6%+3%, respectively), **35%**;
- *Carrots Broccoli and Onions* (13%+12%+10%, respectively), **35%**;
- *Spinach, potatoes, sweet corn, cauliflower and cabbage* (6%+2%+7%+4%+1%, respectively), **20%**.
- *Miscellaneous* (17 varieties) the remaining 10%;

Etaferahu Takele delivers a talk on Economic Trends of Vegetable Crops Production and Sustainability in the desert.

Conservation Planning Grants (CAPGP)

- FY 21-22: \$17 million available
- At least 12 eligible plans, e.g.:
 - Nutrient mgmt plans
 - IPM plans
 - Soil health mgmt plans
 - Irrigation water mgmt plans
 - Organic system plans
- CCAs/PCAs eligible to apply on behalf of farmers
- Draft guidelines & application available. Application opening in late March or April.



Brian Shobe delivers an overview of the CA climate smart agriculture programs and other resources available to farmers.