

STRAWBERRY & OLIVE INTERN



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Support received from the ER Jackman Friends
& Alumni Internship Support Program

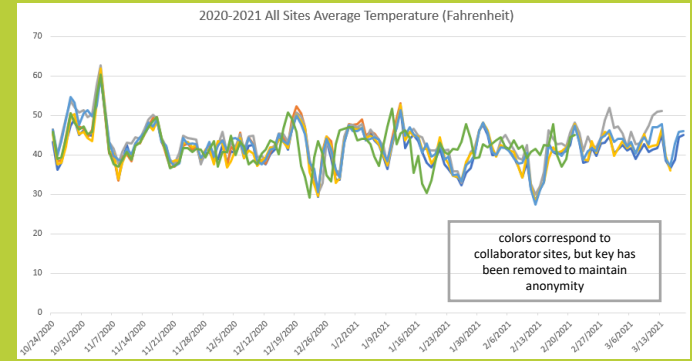


OLIVE COLD HARDINESS & CULTIVAR EVALUATION

Research Responsibilities

- Collected cold hardiness data from extension and grower collaborator sites

- Created graphs to compare temperature and precipitation and their effects on cold damage at all sites
- Installed irrigation and trees in the cultivar evaluation field★



STRAWBERRY SEASON EXTENSION

Research Responsibilities

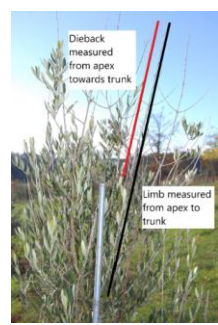
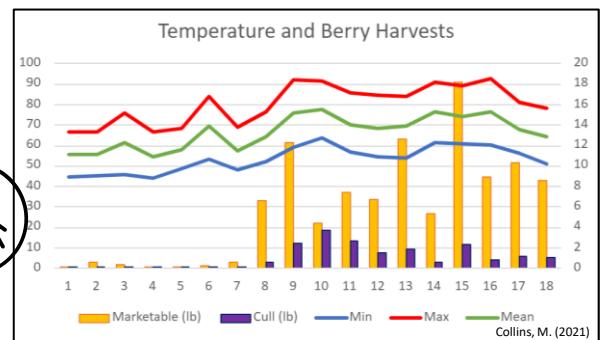
- Constructed & installed the following systems: (1) irrigation manifold, (2) high-tunnel
- Sustained low-tunnels, cultivar evaluation trials, and tabletop evaluation through consistent farm and crop maintenance, such as ventilation, irrigation, fertigation, weed, pest, and production management
- Collected data via harvests and fruit sorts according to different fruit quality categories, including photographical documentation
- Maintained Kestrel sensors and collected climatic data



Preliminary Results

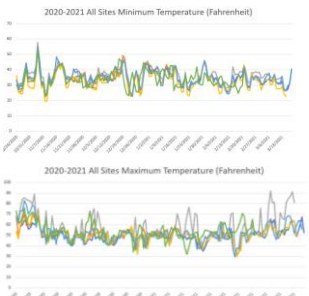
Strawberry Tabletop Harvest

- Seascape conventional = greatest marketable yield
- Seascape organic = greatest cull harvest
- Cultivar, fertigation type (conventional vs. organic), drip (tape vs. tube) factors to be further evaluated using R programming, determining correlation between different variables



To Be Continued: Fall Research Responsibilities

- Analyze climatic data
- Summarize, in a formal report, the most effective system according to financial, environmental, and opportunity costs, like total marketable and high-quality yields, system and maintenance cost, reusability of plastic culture, and time associated with construction, management, and production
- Disseminate research results
- Continue investigating and collecting data from olive tree varieties in the cultivar evaluation trial to determine which cultivars are best suited for Oregon's climate



¹ The intern acknowledges that research was conducted on the traditional homelands of the Atfalati, Ahantchuyuk, and Kalapuya people. Following the Willamette Valley Treaty of 1855 Kalapuya people were forcibly removed to reservations in Western Oregon. Today, living descendants of these people are a part of the Confederated Tribes of Grand Ronde Community of Oregon and the Confederated Tribes of the Siletz Indians.