



**COLLEGE OF
AGRICULTURAL SCIENCES
COLORADO STATE UNIVERSITY**

Monday January 20, 2020
Western Colorado Research Center-Orchard Mesa

Workshop

Principles of Tree-Fruit Production: beginner growers' edition

During the last 4 years the CSU Pomology program at WCRC (CSU Pomology, <http://minas.agsci.colostate.edu>) main goal has been to improve information delivery to Colorado tree fruit growers. During this process, Colorado Agricultural Experiment Station, Western Colorado Horticultural Society (WCHS), Colorado Department of Agriculture Specialty Crop Block Grant Program and the former Colorado Apple Administrative Committee have supported us in reaching our goals.

Our first objective was to focus on developing a relevant applied stone fruit research program that will address the major problems of Colorado peach industry and eventually provide local research information through website updates, field days, field trips and annual WCHS conference. Our second objective is to develop educational material for Colorado tree fruit growers to be available through focused extension courses, workshops and seminars. The present workshop offered for second time titled '***Principles of Tree Fruit Production-Beginner growers' edition***' is designed for small scale-growers and/or beginner farmers to provide the information resources on the fundamentals of fruit tree biology, essential in making sound orchard management and business decisions in their first steps in Colorado fresh fruit industry. This full day workshop delivered by experienced research and extension educators that incorporates lectures, applied research data and field demonstrations to provide information on all aspects of fruit-tree biology and the relationship between plant biology and fruit orchard management with focus on peaches.

Aspects of Tree-Fruit Production to be covered in this workshop are:

Climate & Tree Fruits | Cultivars & Rootstocks propagation and selection
Orchard design and establishment | Bearing habits of fruit trees | Flowering & pollination
Dormancy, cold hardiness & frost protection | Tree pruning, training & cropping systems | Field demonstration of pruning peaches and cherries | Irrigation management | Fruit-tree fertilization: diagnosing and correcting nutrient deficiencies | Diseases, pests and IPM in tree fruit production | Main considerations and challenges of organic tree fruit production | Fruit growth & thinning | Harvest & postharvest handling | Main considerations and challenges of organic tree fruit production

Registration fees: \$60 (coffee & refreshments included; lunch not provided-bring your own lunch)

Workshop information: Ioannis Minas, ioannis.minas@colostate.edu



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Schedule (1/20/2020)

- 8:00-8:30** Welcome & registration (Ioannis Minas & David Sterle, 30 min)
8:30-9:15 Climate & Tree Fruits | Cultivars & Rootstocks selection | Orchard establishment (Ioannis Minas & Jeff Pieper, 45 min)
9:15-9:30 *Coffee Break* (provided, 15 min)
9:30-10:30 Bearing habits of fruit trees | Flowering & pollination | Dormancy, rest breaking, cold hardiness & frost protection (Ioannis Minas & David Sterle, 60 min)
10:30-11:00 Tree pruning, training & cropping systems (Ioannis Minas, 30 min)
11:00-12:00 Pruning demonstration in the experimental orchard of peach and cherry trees under different canopy architectures (Ioannis Minas, 60 min)
12:00-13:00 *Lunch Break* (not provided-bring your own, 60 min)
13:00-13:30 Irrigation management (Horst Caspari, 30 min)
13:30-13:50 Fruit-tree fertilization (Horst Caspari, 20 min)
13:50-14:00 *Coffee Break* (provided, 10 min)
14:00-14:50 Diseases, pests and IPM in tree fruit production (Jane Stewart, 50 min)
14:50-15:00 *Coffee Break* (provided, 10 min)
15:00-15:45 Main considerations and challenges of organic tree fruit production (Frank Stonaker, 45 min)
15:45-16:00 *Coffee Break* (provided, 15 min)
16:00-16:50 Fruit growth & thinning | Harvest & postharvest handling | Pre-harvest factors affecting fruit quality (Ioannis Minas, Brendon Anthony, 50 min)
16:50-17:00 Wrap-up (Ioannis Minas, 10 min)



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