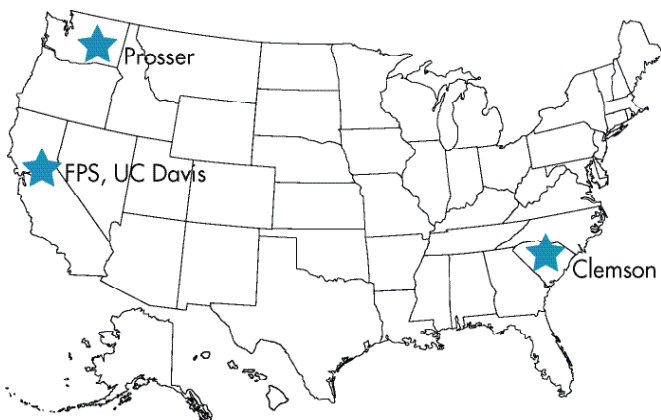


NCPN Fruit Trees Clean Plant Centers



The Clean Plant Center Northwest at Washington State University - Prosser

- » Eliminates targeted viruses and virus-like agents through the expert application of thermal therapy treatment on domestic and foreign fruit tree varieties;
- » Serves as the primary site for the international exchange of fruit and nut tree selections;
- » Produces and distributes deciduous fruit and nut tree propagation material free of detectable virus and virus-like agents. Virus-tested budwood is shipped domestically and internationally to nurseries, growers, researchers, breeding programs and international agencies;
- » Maintains over 1500 virus-tested fruit and nut tree clones under screen house conditions;
- » Tests deciduous fruit and nut trees for virus content and sensitivity. This information helps scientists create better disease diagnostic tools and controls;
- » Develops and adapts new technology protocols to improve virus detection, management and etiology.

Foundation Plant Services at University of California, Davis

- » Serves as a reliable source of dormant cuttings, green cuttings and rootstock seed for fruit tree propagation;
- » Works to ensure clean source of new materials from breeding programs;
- » Develops virus detection techniques; conducts virus testing and elimination;
- » Provides germplasm for the California Department of Food and Agriculture's Fruit and Nut Tree Registration and Certification Program;
- » Maintains a foundation orchard with over 400 cultivars of almond, apricot, cherry, nectarine, peach, plum and rootstocks.

Southeastern Budwood Program at Clemson University

- » Ensures integrity of southeastern fruit tree foundation collection with annual testing of over 40 peach cultivars and Guardian rootstock for Prunus necrotic, Prune dwarf and Plum pox viruses;
- » Serves as a primary source for virus-indexed fruit trees for the southeastern growing region, with nursery distribution reaching across 46 states;
- » Provides GF305 seed used by other NCPN clean plant centers and programs for conducting bioassays;
- » Distributes virus-indexed peach and plum budwood for nursery propagation in the southeastern regions from North Carolina to Florida and along the Gulf of Mexico to Texas;
- » Maintains a collection of virus-indexed peach and plum cultivars in an insect-resistant screenhouse and in a developing GI foundation block.



About the National Clean Plant Network (NCPN)

Established in 2008 and supported by the US Department of Agriculture, the NCPN is a national network of clean plant centers, scientists, educators, regulators and industry representatives who are concerned with the health of vegetatively propagated specialty crops.

nationalcleanplantnetwork.org



NCPN FRUIT TREES

National Clean Plant Network Fruit Trees



Start clean, stay clean. ncpn-ft.org

FRUIT TREES

National Clean Plant Network



Apple green crinkle disease pictured above is just one example of a disease that can be prevented by using virus tested planting stock.

American fruit tree growers produce over 6 million tons of high quality fruit for consumers each year. Participating programs in the National Clean Plant Network for Fruit Trees help control plant viruses and virus-like agents that can potentially impact the yield, appearance, and taste of that fruit. Scientists and researchers working in these programs develop strategies to minimize the economic impact of viruses on the tree fruit and nursery industries.

The center in Prosser, Washington serves as the headquarters for NCPN-FT, and all centers collaborate to provide the products and services needed for specialized growing regions across the United States.



Diagnostics. New fruit tree varieties are tested to prevent the spread of diseases and pests.



Therapy. Infected plants are treated by heat therapy and/or microshoot tip culture to eliminate viruses.



Foundation plantings.

Foundation collections are tested routinely to ensure the mother plants remain free of targeted viruses and virus-like agents.

Virus-tested propagation materials ensures competitiveness of the U.S. Fruit Trees industry in the global marketplace



Distribution. Virus-tested propagative material from foundation sources is made available to nurseries, propagators and growers throughout the United States.

This network ensures the availability of virus-tested propagative material for temperate climate fruit and nut trees of the genera *Malus*, *Prunus*, *Pyrus*, *Cydonia* and *Chaenomeles*. Such material, free of targeted virus and virus-like pathogens, is the key to higher yields, higher quality fruit, and cost-effective, sustainable fruit production.