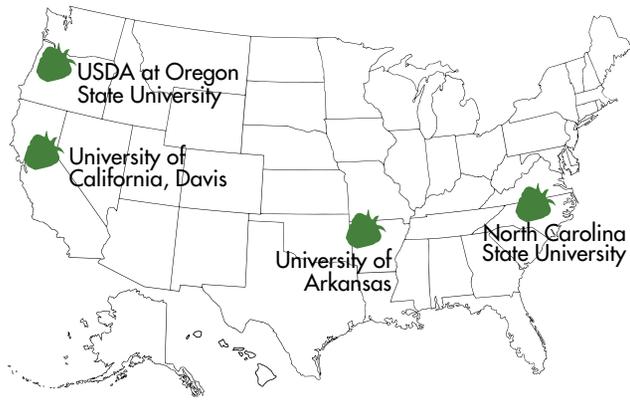


NCPN Berries Clean Plant Centers



Berry Clean Plant Center - Corvallis, Oregon

- » Works closely with breeders and nurseries to develop berry plants free of known pathogens
- » Uses thermal- and chemotherapy to eliminate plant pathogens
- » Indexes plants using bio- and laboratory-based assays
- » Develops and implements new diagnostic assays for pathogens to improve the quality of the plants produced
- » Conducts outreach

Foundation Plant Services, University of California, Davis

- » Maintains and distributes pathogen-tested strawberry propagation stock from the University of California breeding program
- » Uses thermal therapy and meristem-tip culture to eliminate pathogens from plants
- » Tests plants using bioassays and laboratory assays
- » Conducts outreach



Diagnostics Development - University of Arkansas, Fayetteville, Arkansas

- » Develops new diagnostic assays to provide laboratory based tests for pathogens
- » Implements new tests into pathogen elimination and diagnostic programs
- » Develops next-generation diagnostics that will allow detection of all pathogens using a single assay
- » Conducts outreach

Berry Clean Plant Center - Raleigh, North Carolina

- » Produces, maintains and distributes pathogen-tested berry plants
- » Uses thermal therapy and meristem-tip culture to eliminate pathogens from plants
- » Indexes plants using bio- and laboratory-based assays
- » Conducts outreach



NCPN BERRIES

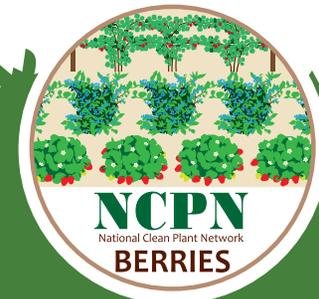
National Clean Plant Network Berries



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



Start clean, stay clean. ncpnberries.org

Berries

National Clean Plant Network



Fruit of cv. Meeker red raspberry: virus-free (left) and virus-infected (right) with crumbly fruit symptom

What is the NCPN-Berries?

The National Clean Plant Network-Berries produces clean planting stock for berry crops. It is an association of clean plant centers, scientists, educators, state and federal regulators, and nurseries and growers from the small fruits industry concerned with the health of berry crops.

It was established in 2009 and is part of the NCPN specialty crops network. The network operates under the umbrella of the US Department of Agriculture (USDA).



We use grafting to bioassay plants to test for virus infection.



We propagate plants in tissue culture after thermal therapy and meristem-tip culture.



We introduce berry cultivars under quarantine to prevent accidental introduction of exotic diseases of berry crops.



We provide virus-tested, clean propagation material to nurseries and growers all over the US and the world.



We develop state-of-the-art techniques for detecting pathogens.



We establish and maintain tissue culture plants of G1 materials held at 4 C for long-term storage.

Production of berry crops such as strawberries, blueberries, raspberries, and blackberries starts with clean plant material. Healthy plants are easier to propagate and produce higher yields and better quality fruit.