INNOVATIONS IN PEST RISK MANAGEMENT

CASE STUDIES by Country

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What is NCPN?

A voluntary association of clean plant centers to promote the production, maintenance and use of pathogen-tested, vegetatively propagated plant material for specialty crops in the United States
NCPN core activities?

• Sustain network of collaborating clean plant centers
• Centers focus on diagnostic and pathogen elimination services
• Produce clean propagative plant material
• Centers maintain blocks of pathogen-tested plant materials in sites throughout the USA
How is NCPN funded?

Dear NAPPO Members,

As of September 2015 the Network has expended $29,361,883

Respectfully submitted,

Erich S. Rudyj
How is NCPN organized?

Governing Board

- NCPN Management Team
- Operations Leadership Team
- Education/Outreach Working Group

Tier 1

Tier 2

- FRUIT TREE (2009)
- GRAPES (2009)
- HOPS (2010)
- CITRUS (2010)
- BERRIES (2010)
- ROSES (2015)
- SWEETPOTATO (2015)
Which crops?

Specialty crops generally restricted for entry into the USA:

- **Fruit Trees** – Stone, Pome Fruits, Ornamentals
- **Grapes** – Table, Raisin, Juice, and Wine Grapes
- **Citrus** – All Types
- **Berries** – *Fragaria*, *Rubus*, and *Vaccinium*
- **Hops** – Reclaiming the ‘historical’ range
- **Roses** – Several Types >>>> Industry Interest
- **Sweetpotato** – Food Crops and Ornamentals
Which cooperators? Where?

NCPN Clean Plant Centers and Programs

WSU
USDA Corvallis

OSU

UC Davis

UC Riverside

USDA Riverside

U. AZ

MO State U.

U. AR - Fayetteville

U. AR - Pine Bluff

LSU – 2 units

TAMU – College Station

TAMU - Kingsville

U. HI

U. AR – Pine Bluff

MO State U.

MS State U.

Auburn

FAMU

FL DPI (2 units)

U. PR – Juana Diaz

USDA Riverside

U. AR

Purdue

MI State U.

Purdue

USDA Beltsville

NCSU

Clemson

Cornell

OSU

U. HI

U. PR

U. HI

U. HI
Benefits?

- Provide clean, tested propagation stock to nurseries throughout the United States
- Develop state of the art techniques for detecting pathogens
Benefits?

- Eliminate viruses (e.g., using heat therapy and microshoot tip culture)

All photos by UC Davis
Benefits?

• Import and quarantine new varieties of interest to growers

• Rigorously test mother plants using standards that are often stricter than state and federal requirements
Benefits!

- **Fruit Trees**
  - 2,000 accessions maintained in the Foundation; delivered over 350,000 cutting/scions/plantlets & over 1.2 million buds to nurseries & growers

- **Grapes**
  - 625,000 - Number of Clean Cuttings, Buds, Plants, or Special Seed Distributed to Industry

- **Berries**
  - Foundation material used by industry to produce 20-30 million clean plants annually

- **Citrus**
  - Over 230 million citrus trees produced from ‘clean plant’ material in last five years

- **Hops**
  - Over 30% of the World’s hops come from the USA – the major source of clean plant material
Start clean, stay clean

National Clean Plant Network