NCPN Grapevine and Fruit Tree Programs
At Washington State University - IAREC
Five inter-related activities:

★ Fruit tree clean plant program  
  (temperate climate fruit and nut trees)

★ Northwest Grape Foundation Services  
  (Keller & Eastwell co-directors)

★ Research programs

• Hop Clean Planting Stock Program

• WSU ELISA Testing Service Center
Fruit tree program - FTCPN

1955 Inter-regional project-2
2009 FUNDS FROM THE FTCPN

- Operations: 56%
- Infrastructure: 18%
- Program Coordinator: 16%
- Methods development: 10%
Goal 1: Provide rapid and safe introduction and release of selections from foreign and domestic sources

Outputs - service function during first 6 months of FTCPN

• Received:
  47 foreign accessions from foreign sources
  28 public accessions from USDA breeding programs
    1 grower selection
  23 proprietary accessions (domestic)
  52 accessions for custom testing
  20 selections from USDA-APHIS-PPQ for thermotherapy
• Shipped:
  1275 buds & 7 trees of 32 cultivars to certified nurseries
  798 buds of 43 cultivars directly to tree fruit growers
  450 buds & 400 rootstocks of 11 cultivars to USDA
  23 virus indicator cultivars (3250 buds) & 250 buds of virus isolates to quarantine & certification programs
  157 buds representing 15 cultivars to 4 countries
Goal 1: Provide rapid and safe introduction and release of selections from foreign and domestic sources

Progress to achieve this goal:

• Retain “program memory” by overlapping Howell’s retirement with new hires: Program manager
  Plant growth facilities mgr
  Program coordinator

• Safe reliable facilities:
  Refurbish & improve quarantine greenhouse
Re-skin greenhouse
Upgrade temperature control
Eliminate asbestos
Eliminate gravel bed
Eliminate gravel floor
Upgraded irrigation system in field indexing blocks
Relocate heat therapy unit to new location
Screen houses repaired

Weed barrier installed
NorthWest Grape Foundation Service
GCPN Status

280 grape selections currently in program
196 selections with provisional release

Foundation vineyard:
• Currently holds 150 grape selections (5 plants each)
• Expanded from 2 acres to 4 acres in 2009
Screenhouse construction completed
Will hold one plant of each accession

GCPN provided irrigation system
• Woody indexing block established in 2009
• Currently testing for leafroll and rupestris stem pitting
Molecular assay capacity expanded with assistance from WA Hop Commission

Grapevine leafroll assoc’d viruses
Grapevine viruses A, B, D
Grapevine fanleaf virus
Grapevine fleck virus
Syrah decline assoc’d virus
Tomato ringspot virus
Arabis mosaic virus
Tobacco ringspot virus
Cherry leafroll virus
Rupestris stem pitting assoc’d virus
Crown gall (*Agrobacterium vitis*)
Phytoplasma
Xylella
Personnel:
• Nursery worker to expand woody indexing
• Tissue culture specialist (shared with hop)
• Scientific assistant for molecular diagnosis (shared with fruit trees)

**Increased** capacity to add new clones to the program
• 45-50 new accessions annually