National Clean Plant Network (NCPN)

Berries Clean Plant Network (B-CPN)

Present at meeting in Maryland in 2007

Outlined at 2\textsuperscript{nd} National meeting in DC in 2009, Initial discussions to discuss organizing a meeting to explore the need and support of a Berry Clean Plant Network – Sept. 15, 2009.

Meeting planned for Nov. in St. Louis, MO
National Clean Plant Network (NCPN)

Berries Clean Plant Network (B-CPN)
Needs Assessment and Planning Meeting

St. Louis, MO, November 18-19, 2009

Bring together stakeholders from industry, existing clean plant and diagnostic development centers, State Dept. of Agric, APHIS, plant breeders and plant pathologists.
November Meeting:

- Bring Berries Group Together
  - Initially berries to include: Strawberries, Blueberries/Cranberries and Cane Fruit (Brambles), *Ribes* and *Sambucus* were discussed for inclusion

- Discuss NCPN Mission, Vision, Goals
  - Focus on Farm Bill 2008 Legislative Directions, Berry CPN seemed to fit the goals of the Farm Bill.

- Determine Early Level of Interest and Opportunities
  - Stakeholder interests in NCPN clean plant program
  - NCPN value to berry industries
Outcomes of Nov. Meeting

- B-CPN – General agreement on the need for a Berry Clean Plant Network and that it should consider plant movement within the U.S. and plants for export as well as import.

- Berries- Disease Concerns – Initial list of pathogens to be considered was discussed, viruses, viroids, phytoplasmas and several other systemic pathogens.

- B-CPN – Governing Body Discussion, a first outline of a charter and started work on a potential Tier 2 Board.
Follow up to Nov. Meeting

- Charter fleshed out by Erich Rudyj, based on discussions at initial meeting and sent to all present at the meeting.

- Conference Call in March to review charter, again Erich revised and sent out, update Tier 2 candidates

- Conference Call in April, review charter, review potential candidates for Tier 2 Board
Berry-CPN Tier 2 Board

Should represent the three major genera, Fragaria, Rubus and Vaccinium

Should have regional representation

Nurseries, growers, State Depts. of Ag., Research and Extension

May be a somewhat larger Tier 2 Board
Current Status

Tier 2 candidate members being contacted, to determine who is willing to participate.

Election of members by May 20\textsuperscript{th}.

Proposals to review committee by June 1, with feedback by June 10\textsuperscript{th}.
Diseases to be Targeted in B-CPN

Strawberry

Whitefly vectors: BPYV, SPaV, Crini-3, -4

Aphid vectors: SMYEV, SMoV, SVBV, SCV, SCFV, SPMYEV, StFLV

Nematode vectors: ToRSV, ArMV, SLRSV, RpRSV, TBRV

Pollen trans: FCILV, ApMV, TSV, SNSV
Diseases to be Targeted in B-CPN

Blueberry, Cranberry

Aphid vectors: BlScV, BSSV, BRRSV, BLMV

Nematode vectors: ToRSV, TRSV, PRMV

Pollen trans: BlShV, TSV

Unknown: BNRBV, BBLCV, BILV, Mosaic

Stunt, Xylella
Diseases to be Targeted in B-CPN Raspberry/Blackberry

BVY, RYNV, BRNV, RLMV, RLCV, CMV, BCV
RpLV, PNRSV, BCRV, RLBV, CRLV, WLV
BPYV, INSV, BlVX, BlVE, RuVR, RuCMV, BYVaV
BlVS, BCMV, ApMV, SNSV, RBDV, RVCV, ToRSV, TRSV, ArMV, SLRSV, RpRSV, TBRV
Stunt
Virus Names to Drop - Rubus

- Alpine mosaic agent
- Bean yellow mosaic
- Black raspberry latent virus
- Black raspberry streak
- Bramble yellow mosaic
- Rubus yellow spot
- Thimbleberry ringspot
- Tobacco necrosis virus
- Tobacco rattle virus
Berry-CPN Proposals Being Developed

Retesting and maintenance of existing G1 Blocks (Scheduled retesting)

Therapy for clean-up of selected clones

Methods development – improved diagnostics

All clean-up targeting the ‘2010 type protocol’ (all viruses known to infect the crop plus other select pathogens)
Goals of the Berry-CPN as Defined at Meeting in St. Louis, Nov 2009.

Develop plants that meet standards for movement between states.

G1 Plants should meet requirements for export into any market, meet all quarantine lists in terms of viruses, phytoplasmas, and other select pathogens.
NCPN 1st General Meeting
Some Early NCPN Specialty Crop Supporters

• Pome and Stone Fruit Trees, including Nut Trees
  – Malus, Pyrus, Prunus

• Grapes
  – Vitus

• Citrus
  – Citrus

• Berries
  – Fragaria, Vaccinium, Rubus

• Hops
  – Humulus

• Sweet Potato
  – Ipomoea

Ornamental Trees and Other Ornamentals associated with above