

## Connecticut Chapter 2010 Pollination Planning

We have a large group of trees that either have been identified, or need leaf samples sent in to become candidates for pollination. Board members have been indicated as tentative tree stewards:

**Confirmed American, Flowering**, check health, get permission:

Enfield: Hazard Ave. Power lines/transformer, ask if Northeast Utilities advises trimming? – Gayle Kida

Torrington: Highland Avenue – Bill Moorhead

Barkhamsted: Legeyt Road, might need another year, a few catkins on topmost branch – Gayle Kida

**Confirmed American, Flowering**, but need to work on access/permission issues:

Torrington: Charlotte Hungerford Hospital, **producing nuts** – Bill Moorhead

Haddam: South Side Bluff, trail access only – Jane Harris (assistance from Kendra Gurney?)

Burlington: New Britain Water Dept. property, trail access only, **producing nuts** – Gayle Kida

**Tentatively ID American, Need New Sample to Confirm**, need to check health, access:

Canton: Westwood Drive, **flowering** – Garrett Smith

Rocky Hill: Becks Crossing, **flowering** – Jane Harris

Salisbury: Mt. Riga #2 (were samples received for #1?), **flowering** – Woods Sinclair

Norwalk5: Weatherbell Drive – **not flowering** – Bill Adamsen

Lyme, Davison – Confirmation not on CT database, could climber work, **flowering?** – David Bingham

Northfield: Northfield Road, **flowering?** – Woods Sinclair

**State Permit Needed** if we were to pollinate, may need to check access:

Cornwall: Mohawk State Forest, 2 trees, **Not confirmed, producing nuts** – Bill Moorhead

Burlington: Nassahegan State Forest edge, easily accessible, **Confirmed, a few flowers** – Gayle Kida

Sharon2: Housatonic Forest, access? **Need new sample to confirm, flowering?** – Woods Sinclair

**Re-pollinate these partial lines** if trees have enough new flowering tips?

Salisbury: Riga Road (Mt. Washington #3) – Woods Sinclair

Warren: Flat Rocks Road – John Baker

Litchfield: Town Farm Road “B” – Bill Moorhead

Woodbridge: Old Quarry Road – Robert Gregg

**Confirmed, did not flower 2009**, need to check flowering status:

New Hartford: Camp Workcoeman – Bill Adamsen

Litchfield: Sally Burr Road, 2 trees – Bill Moorhead

Barkhamsted: Peoples Forest Kiwanis Road (would need state permit) – Gayle Kida

Norfolk: Beckley Road, remaining stem has better sun now – John Anderson

Norfolk 2: Green Woods Road – John Anderson

Tolland: Route 74 near corner Burbank Road – Mike McGee

**Need Samples, size, flowering status, access and/or additional info:**

Union 2: **Confirmed, need address**, flowering? – Mike McGee (ask info from Woods S.)

Lyme: Joshua Rock, 2009 attempts to visit tree unsuccessful – Jack Ostroff

Darien: Christie Hill Road – Bill Adamsen

Oxford: Chestnut Tree Hill Road – Bill Adamsen

Burlington #2: Withepass Road, no bucket truck – leach field – Gayle Kida

Avon: West Side of Avon Mountain – Garrett Smith

Putnam: Heritage Road – Jim Gage

MA, north of Salisbury: Plantain Rd – Woods Sinclair (assistance from Susan Kelsey?)

New Hartford: Moulder property farm trees – Bill Adamsen

**Town?** Beecher Property, email with photos, contact to visit? – (info from Woods Sinclair?)

**Topics that I have been asked to include for this meeting –**

**1. Do we wish to start a new line of resistance?**

Clapper resistance traces back to the PI #34517 seed lot.

Graves (which is Mahogany, PI #70315 seed lot) would be the usual second line of resistance, but perhaps others will be available by 2011 at BC2 or BC3?

As of April 2004, Meadowview was developing the following resistance sources:

At BC3:

- Nanking (USDA cultivar)
- Douglass (from one of the Earl Douglass C x A trees growing in New York),
- Three sources from Sleeping Giant South Lot: Row 11 Tree 14 (PI # 36666), Row 1 Tree 4 (origin?), Row 1 Tree 7 (origin?).

At BC2:

- Meiling (USDA cultivar, similar to Nanking)
- Musick Chinese

I believe Massachusetts has created a few Nanking BC4 seed lines.

**2. Do we have enough trees with flowers and volunteer tree stewards to do it? Number of years to succeed?**

Perhaps we should estimate 4 full lines per year?

**3. How many orchards might be needed to hold the twenty lines, assuming 75-100 nuts per line?**

If we assume 3-4 lines per orchard with 10% additional control seed, estimate six orchards?

**4. Would we consider starting a “Father Tree” program? This would require that board members collect and process pollen from confirmed CT American chestnuts, then have it frozen for storage. Pollinations would occur the following summer. Who would travel to Meadowview to bag trees for perhaps two days, and about 10-12 days later, to pollinate?**

I would keep in mind the article by Kendra about Dr. Fenny Dane’s results with our CT trees, <http://ctacf.org/index.cfm/2010/2/18/Tracing-American-chestnuts-with-chloroplast-DNA-markers>

Per Dr. Dane, chloroplasts are inherited maternally. Should we attempt to retain the *C. dentata* D1 haplotype of chloroplast, if it may be best adapted to the Northeast and Connecticut’s seasonal day lengths and available sunlight during the growing season?

**Budget items –**

\$200 for pollination supplies (order one or two types of 1000 bags plus misc. supplies as needed).

Should we budget additional money for the following:

Travel expenses for pollinators?

Emergency bucket truck?

Summer 2010 Pollination intern?

Respectfully submitted February 23, 2010

Gayle Kida

Pollination Coordinator