

Appendix 3

Vermont/New Hampshire Chapter of The American Chestnut Foundation

Status and Timeline for Breeding Orchard Establishment, Inoculation, Selection/Rogueing, Harvest and Seed Orchard Planting

GRAVES source of resistance		P = Planted, I = Inoculate**, S = select B3s/Rogue Orchard, H = Harvest B3s, P-SO = Plant Seed Orchards, i = Inoculate Seed Orchard																									
Breeding Orchard Name	# of lines*	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Valley View Farm- Upper	2	P									I	S, H	P-SO								i						
Valley View Farm - Lower	2			P							I	S, H	P-SO								i						
Valley View Farm - Pine	2				P										I				S, H	P-SO					i		
Shieling State Forest	3				P									I	I				S, H	P-SO					i		
High Shelter Farm	3				P													I	S, H	P-SO					i		
Otter Brook Farm	3						P												I	S, H	P-SO					i	
Pikes Peak Farm	3							P											I	S, H	P-SO					i	
Camp Endo	3								P										I	S, H	P-SO					i	
Lake St. Catherine State Park	3									P										I	S, H	P-SO		S, H	P-SO		
Old Gurdy Farm	3									P									I	S, H	P-SO						
Merck Forest and Farmland Center	3										P									I	S, H	P-SO					

*Some lines are repeated across orchards - this summary does not include that level of detail

**Inoculation dates are estimates. Decisions are made based on diameter measures for the majority of trees in the orchard.

Note - Year indicates the first year for a given orchard activity. In most cases these activities have been or will be spread over 3-5 years, with the exception of inoculation and selection, which only happens once/orchard.

Selection is now based on canker phenotypes, genotype, and long-term resistance phenotypes, and it may take longer between inoculation, selection, and harvest. Will also need to make "best x best" crosses of selections and decide what to do with lines that do not produce a good selection for breeding but represent unique wild germplasm. Recommend conserving in BCOs and using for transgenic diversification.

Breeding Orchard Name	City/State	Management Type
Valley View Farm- Upper	Shelburne, VT	Staff managed, coordination with TACF staff, occasional volunteer opportunities
Valley View Farm - Lower	Shelburne, VT	Staff managed, coordination with TACF staff, occasional volunteer opportunities
Valley View Farm - Pine	Shelburne, VT	Staff managed, coordination with TACF staff, occasional volunteer opportunities
Shieling State Forest	Peterborough, NH	State employees mow and herbicide, volunteer in charge of day-to-day management
High Shelter Farm	Perkinsville, VT	Private landowner as orchard manager, occasional volunteer opportunities (work days)
Otter Brook Farm	Peterborough, NH	Staff managed, occasional volunteer opportunities, has had local school involvement
Pikes Peak Farm	Perkinsville, VT	Private landowner as orchard manager, occasional volunteer opportunities (work days)
Camp Endo	Jamaica, VT	Staff managed, coordination with TACF staff, occasional volunteer opportunities
Lake St. Catherine State Park	Poultney, VT	State employees mow, volunteer in charge of day-to-day management
Old Gurdy Farm	Bristol, NH	Private landowner as orchard manager, occasional volunteer opportunities (work days)
Merck Forest and Farmland Center	Rupert, VT	Staff managed, coordination with TACF staff, occasional volunteer opportunities

Owners motivated to put on the market soon

Unsure status - staffed farm was dissolved

Property on the market