

# RIPARIAN LANDS PARTNERSHIP

## VERMONT SEED PROGRAM

Brooke Fleischman - Statewide Seed Coordinator (Intervale Center)

Jessica Colby - Riparian Lands Project Coordinator (NorthWoods Stewardship Center)

**This work wouldn't be possible without the financial support of the Great Lakes Fisheries Commission, Vermont Fish & Wildlife, and U.S. Fish & Wildlife Service.**





# What We Do

- Collect, process, and store locally-sourced native tree and shrub seeds
- Work closely with local conservation nurseries
- Direct seeding trials with VFWD
- Map seed source locations and phenology data





# PROJECT TIMELINE

2015

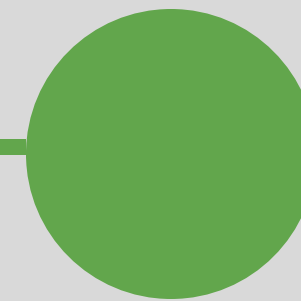
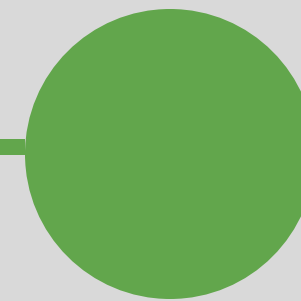
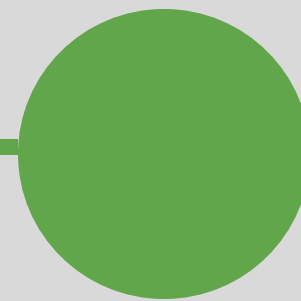
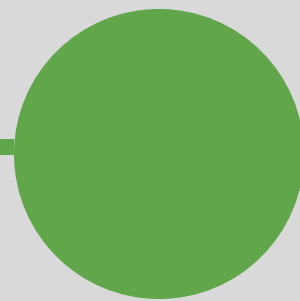
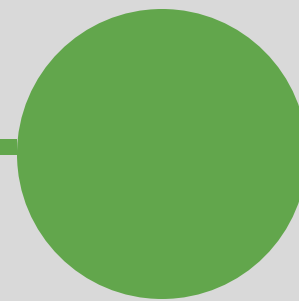
2017

2020

2021

2022

2023



Cornfield replication experiments begin

LaPlatte direct seeding experiment begins

COVID-19 halts applications and showcased need for expanded seed collection efforts

NorthWoods Stewardship Center begins seed collection

NWSC hires long season Riparian Lands Crew

Vermont Seed Coordinator hired



**~56 Million Seeds**

**21 Species**

**3 Direct Seeding Sites**

**Thousands of propagules  
started at ICN**



**2023 Season**

# Target Species



Red Maple - *Acer rubrum*

Silver Maple - *Acer saccharinum*

Speckled Alder - *Alnus incana*

Yellow Birch - *Betula allegheniensis*

Gray Birch - *Betula populifolia*

Silky Dogwood - *Cornus amomum*

Tamarack - *Larix laricina*

Red Spruce - *Picea rubens*

Balsam Poplar - *Populus balsamifera*

Eastern Cottonwood - *Populus deltoides*

Quaking Aspen - *Populus tremuloides*

Black Cherry - *Prunus serotina*

Chokecherry - *Prunus virginiana*

Northern Red Oak - *Quercus rubra*

Shrub Willow - *Salix* spp.

Black Willow - *Salix nigra*

Northern White Cedar - *Thuja occidentalis*

American Elm - *Ulmus americana*

Nannyberry - *Viburnum lentago*

Highbush Cranberry - *Viburnum trilobum*



## Other Species of Interest



Paper Birch - *Betula papyrifera*

Red Osier Dogwood - *Cornus sericea*

Black Ash - *Fraxinus nigra*

Green Ash - *Fraxinus pennsylvanica*

Butternut - *Juglans cinerea*

White Oak - *Quercus alba*

Swamp White Oak - *Quercus bicolor*

Bur Oak - *Quercus macrocarpa*

Wild Raisin - *Viburnum nudum*



# Seed Cleaning Equipment





# Dybvig Seed Cleaner







# The "Tornado" Method





# Clipper Seed Cleaner





# What's Next?

## 2024

- [Intervale Center](#) will house it's first crew for seed collection in the spring
- NorthWoods Riparian Lands crew returns
- Direct seed applications continue
- Building out the network
- Equipment
- More seeds!

## Strategic Planning

Shortly after the new year, partners will come together at a strategic planning meeting to discuss future visions and goals.





VERMONT SEED PROJECT



# Vermont Seed Need Survey



VERMONT SEED PROJECT



# Contact Us!

## **Brooke Fleischman**

*Statewide Seed Coordinator, Intervale Center*

[brooke@intervale.org](mailto:brooke@intervale.org)

## **Jess Colby**

*Riparian Lands Project Coordinator, NorthWoods*

*Stewardship Center*

[jess@northwoodscenter.org](mailto:jess@northwoodscenter.org)





# THANK YOU

RIPARIAN LANDS PARTNERSHIP



NORTHWOODS  
STEWARDSHIP CENTER



*Clean water. Healthy habitat. Thriving communities.*  
**Connecticut River  
Conservancy**

The Nature  
Conservancy 



VERMONT SEED PROJECT

# Vermont Seed Need Survey



Nursery Form



Restoration Practitioner Form