

Converting Woodland to Silvopasture

Part 2: Thinning, Clearing, and Establishing Forage & Fodder

Introductions



Food Animal Concerns Trust (FACT) is a national nonprofit organization that works to ensure that all food-producing animals are raised in a humane and healthy manner.





Larissa McKenna & Samantha Gasson
FACT's Humane Farming Program Team
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Website: foodanimalconcernstrust.org/farmer

FACT's services to support livestock and poultry farmers include:

- Conference scholarships (ongoing)
- Customized handouts (ongoing)
- Free webinars (ongoing)
- Fund-a-Farmer Grants (not currently accepting applications)
- Humane Farming Mentorship Program (not currently accepting applications)
- Financial and Business Training (not currently accepting applications)

Our Presenter



Steve Gabriel

Wellspring Forest Farm Cornell Small Farms Program

PLEASE NOTE:

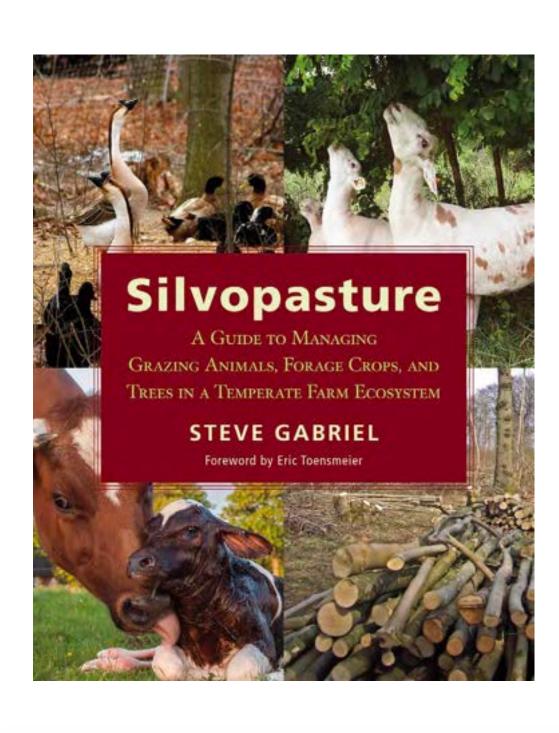
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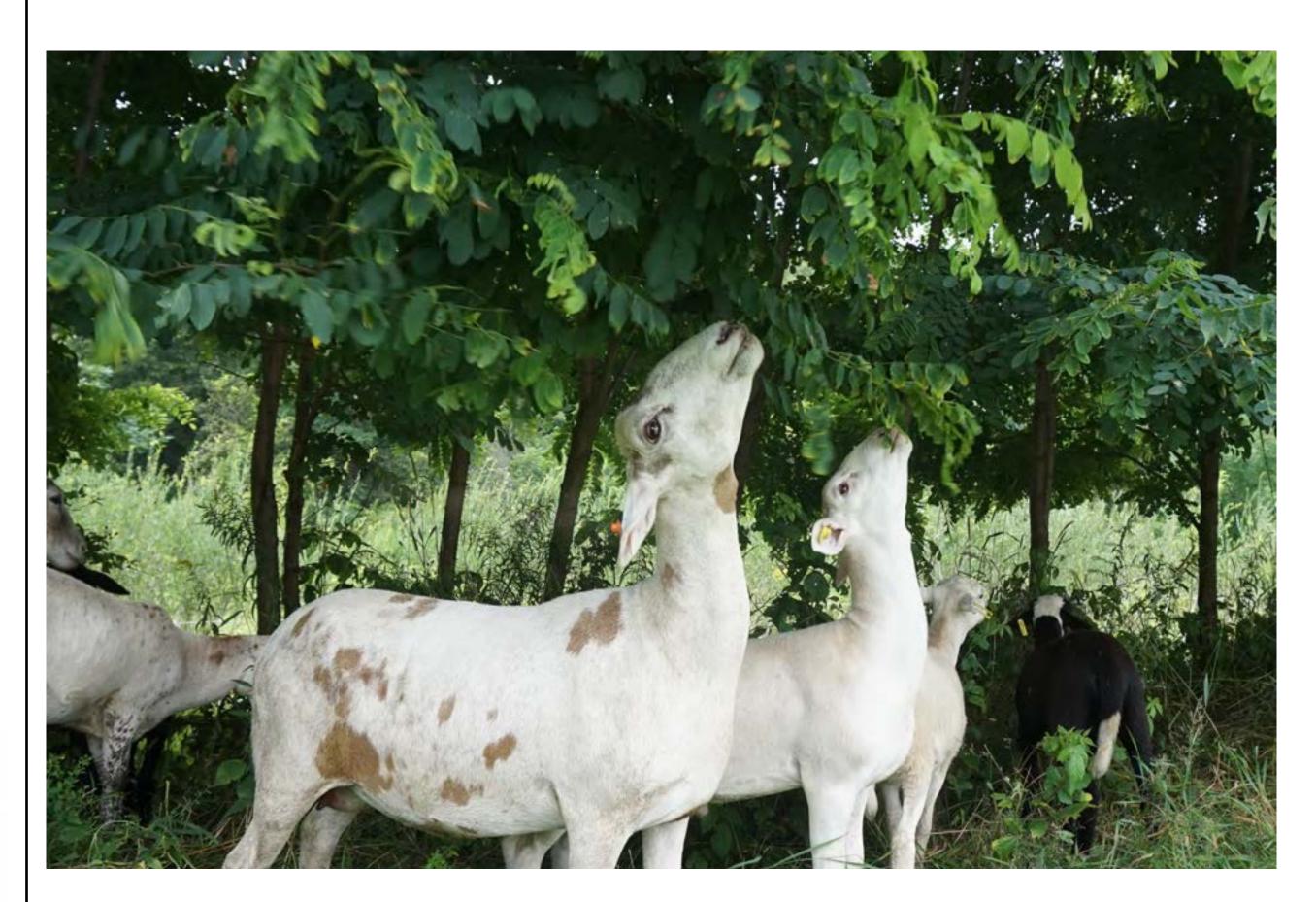
THANKS
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Woodland Conversion to Silvopasture, Part 2







www.SilvopastureBook.com

FACT's Silvopasture Webinars with Steve Gabriel

In October and November 2020, FACT (Food Animal Concerns Trust) hosted a three-part webinar series with silvopasture expert Steve Gabriel, in addition to several additional webinars. We are glad to provide access to these sessions for interested farmers and ranchers.

WEBINARS

Part 1: Designing Silvopasture Plantings

Part 2: Why Trees Die in Silvopasture (and how you can help save them!)

Part 3: Choosing the Right Animal, for the Right Place, at the Right Time

Trees for Livestock Food and Medicine (originally presented in March 2020)

Water Management for Pasture Grazing Systems (originally presented in March 2021)

If you are experience any technical difficulties accessing the recordings above, you may also find them on **FACT's YouTube channel**. In addition to **webinars**, FACT also provides **grants**, **scholarships** and a **mentorship program** for livestock and poultry farmers who wish to raise their animals on well-managed pasture. To receive news and notifications about all of FACT's farmer services, please subscribe to our newsletter below.

https://foodanimalconcernstrust.org/steve-gabriel

HOME

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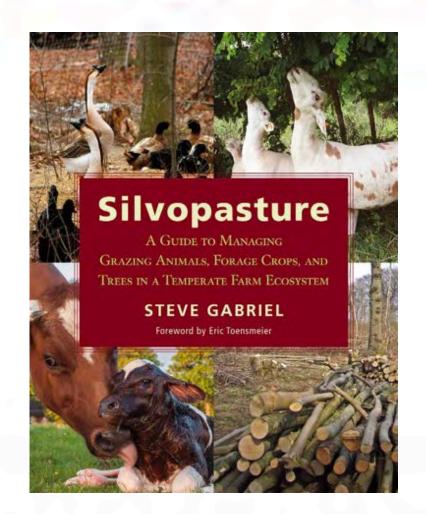
TREE FODDER

JOIN EMAIL LIST

CONSULTATIONS

CONTACT





Tree Fodder is building resilience (and carbon) on our farm.

Our farm was first captured by the idea of tree fodder out of necessity. In 2016 our region of New York suffered a tremendous drought coupled with record high temperatures and the pastures simply stopped growing. Our neighbors were draining their ponds and driving two states over to find hay to feed animals. Members of the local Mennonite community, perhaps more versed in traditional ways, saw the writing on the wall and sold off or butchered their animals.

Grant report — Reference Library — Seminar Recordings www.SILVOPASTUREBOOK.COM

Silvopasture Practices for Land, Animal, and Farm Resilience Questionnaire

Are you actively integrating trees, livestock, and forages on lands in the Northeast US?

NORTHEAST USA

(CT, MA, ME, NH, NJ, NY, PA, RI, VT)

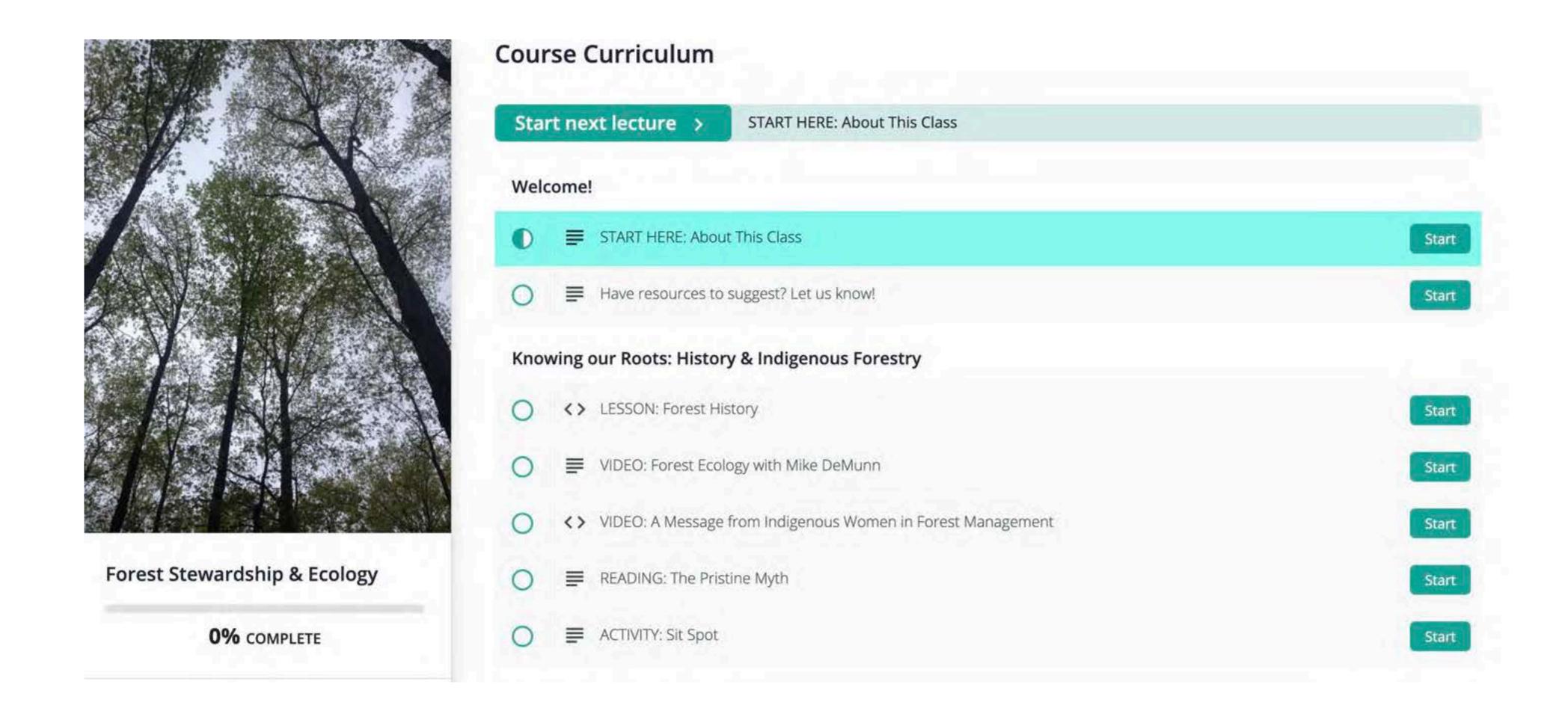
Cornell Univ	ersity			
Prior to this survey, w Practices?	hat was your level of	f awareness or	understanding	of Agroforestry
No awareness- no far		neard of.		
Low awareness- hear	d of once or twice.			
Medium awareness-s	omewhat familiar or	have heard of	multiple times.	
High awareness- very	familiar with practic	es, have seen	or currently eng	age with.
	No Awareness	Low	Medium	High Awareness
Silvopasture	0	0	0	0
Forest Farming	0	0	0	0
Intercropping/Alley Cropping	0	0	0	0
Windbreaks	0	0	0	0
Riparian Buffers	0	0	0	0

NEW YORK

Farmers and Land
Stewards

Both links at <u>www.SilvopastureBook.com</u>

FREE online class



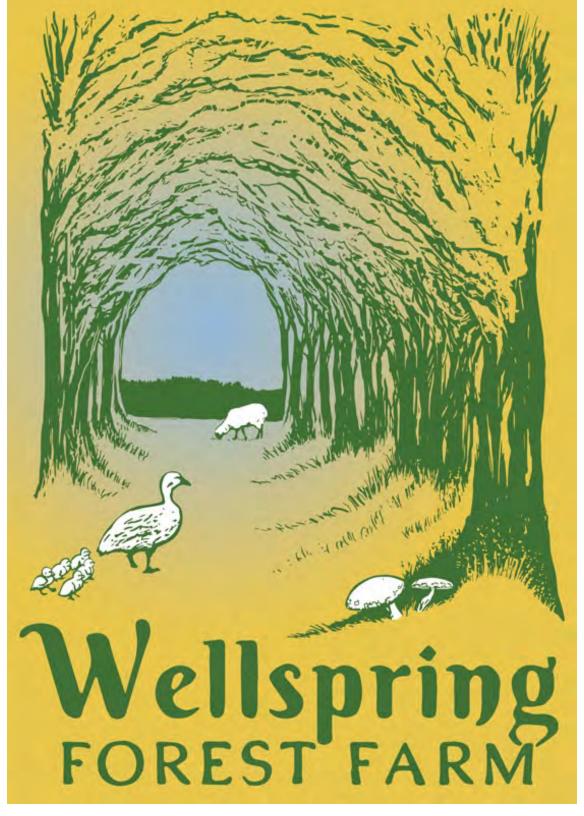
https://wellspring-forest-school.teachable.com/p/foundations-of-forest-stewardship

Wellspring Forest Farm



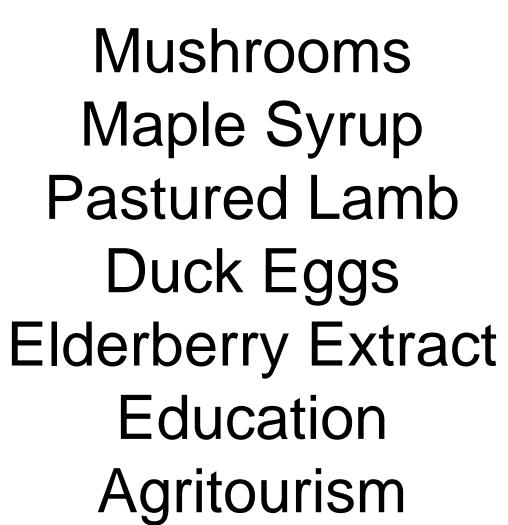
farming in the image of a forest...



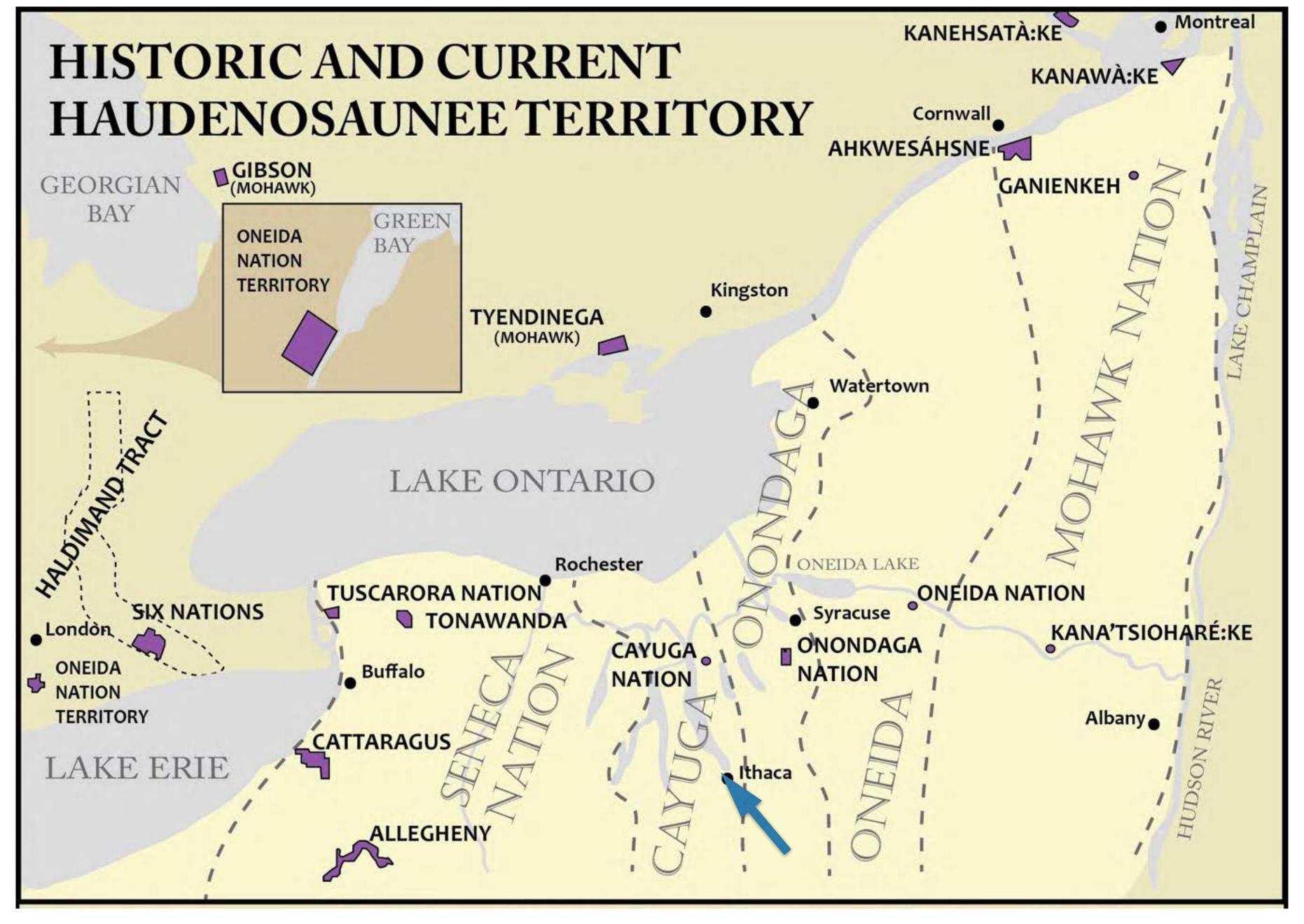












We are on unceded Gayogohó:no' (Cayuga) lands.



Agroforestry used to be called...

honoring indigenous wisdom

Mike Demunn







Opening
up
the
canopy



Can I get paid or make \$\$?



381-CPS-1

Natural Resources Conservation Service
CONSERVATION PRACTICE STANDARD
SILVOPASTURE

Code 381

(Ac)

DEFINITION

Establishment and/or management of desired trees and forages on the same land unit.

PURPOSE

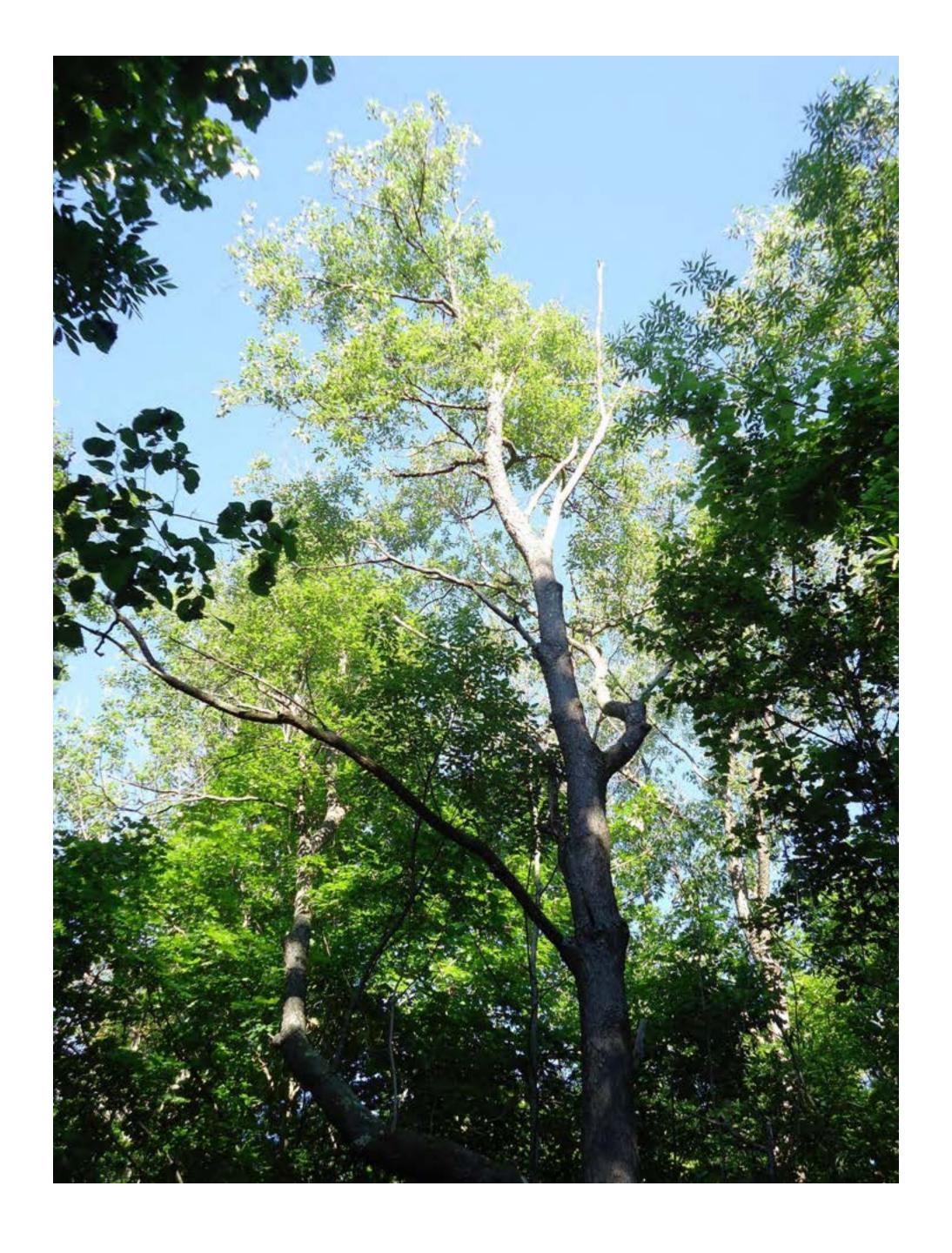
- Provide forage, shade, and/or shelter for livestock.
- Improve the productivity and health of trees/shrubs and forages.
- Improve water quality.
- · Reduce erosion.
- Enhance wildlife habitat.
- Improve biological diversity.
- Improve soil quality.
- Increase carbon sequestration and storage.
- Provide for beneficial organisms and pollinators.

CONDITIONS WHERE PRACTICE APPLIES

This practice may be applied on any area that is suitable for the desired forages, trees, and livestock.



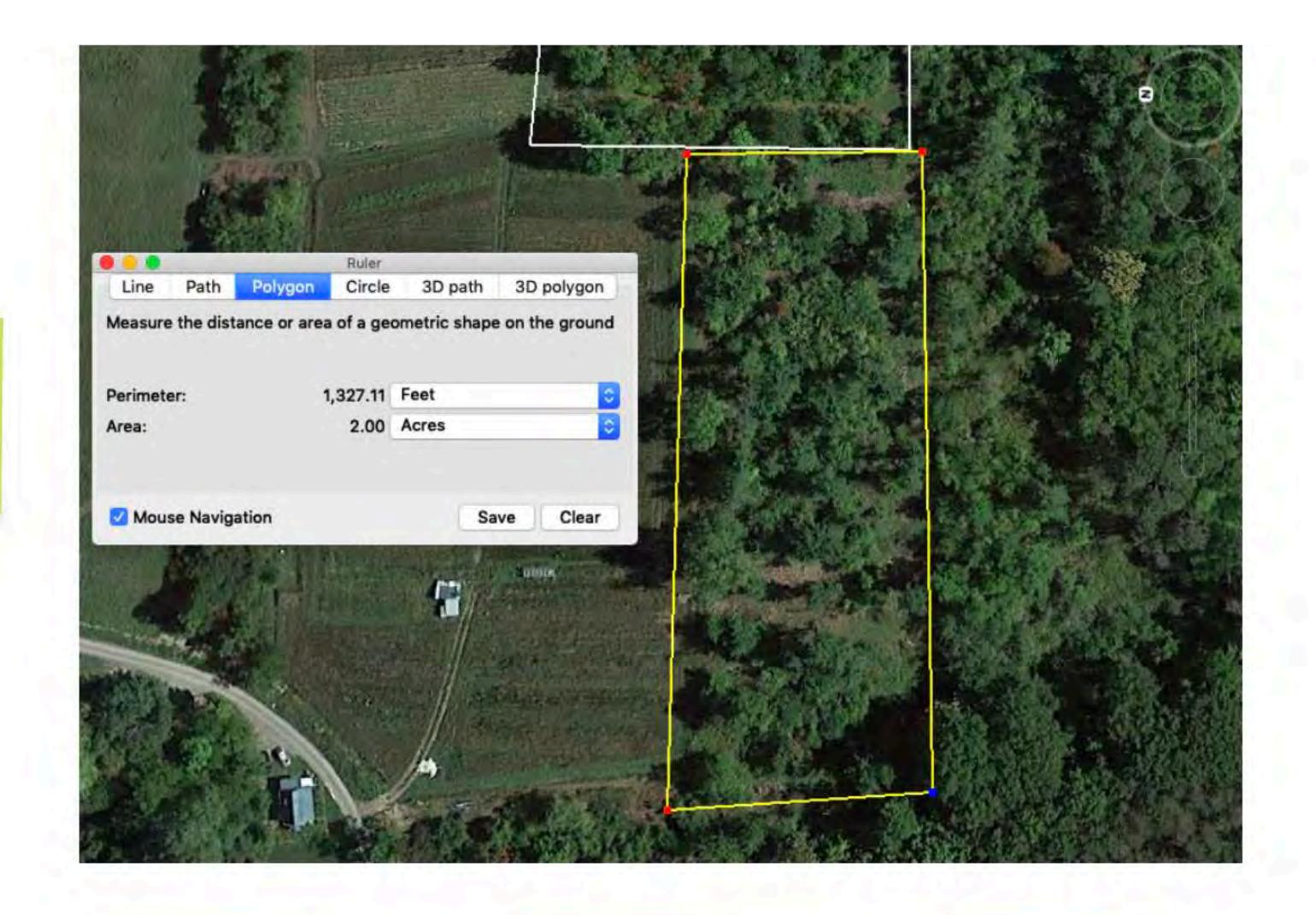
"Thin as
Mother Nature
would thin"







1) Select Area of Interest



Similar ecology and management Start with an area you can walk often Start with the most marginal areas

What is the character of the site? What needs remediation here?

WATER NATIONAL SURVEY SOILS ON SITE 2) Assess Site TESTING Qualities SLOPE, **ASPECT EXISTING VEGETATION** MICROCLIMATE

3) What are your goals for having silvopasture here?

Why invest the additional time, energy, and resources to convert?

























1. Get Access (You, animals, fencing, equipment)

ID and flag "Keeper trees" Engage animals

ID Vegetation Patterns





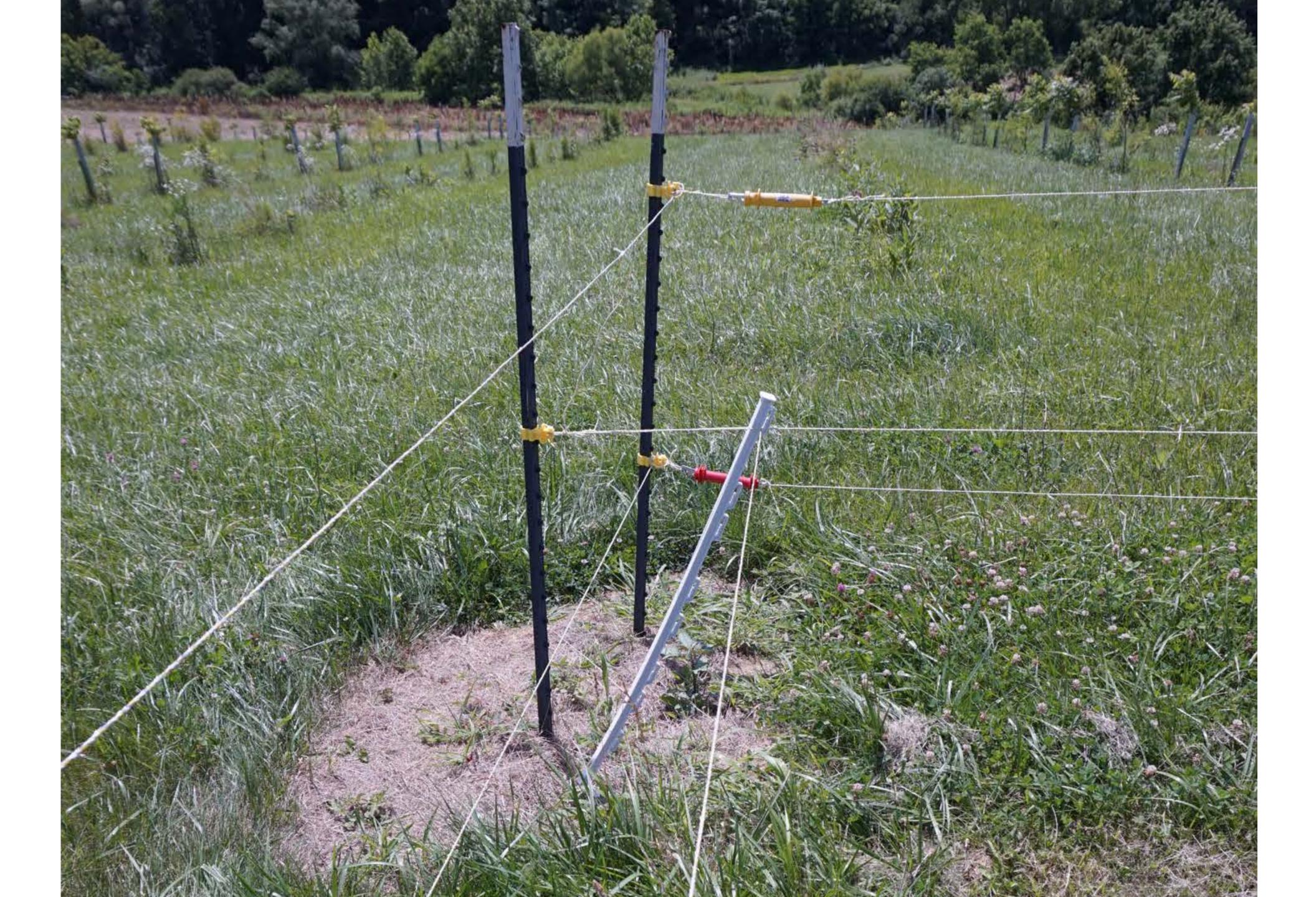




















2. Determine how soon it needs to be Silvopasture

Some debris is good, but not too much...

What is forage strategy?

What is nondesired vegetation strategy?

Don't clear too much, too fast

Gaps, clearnings, clusters (Mosiac)

















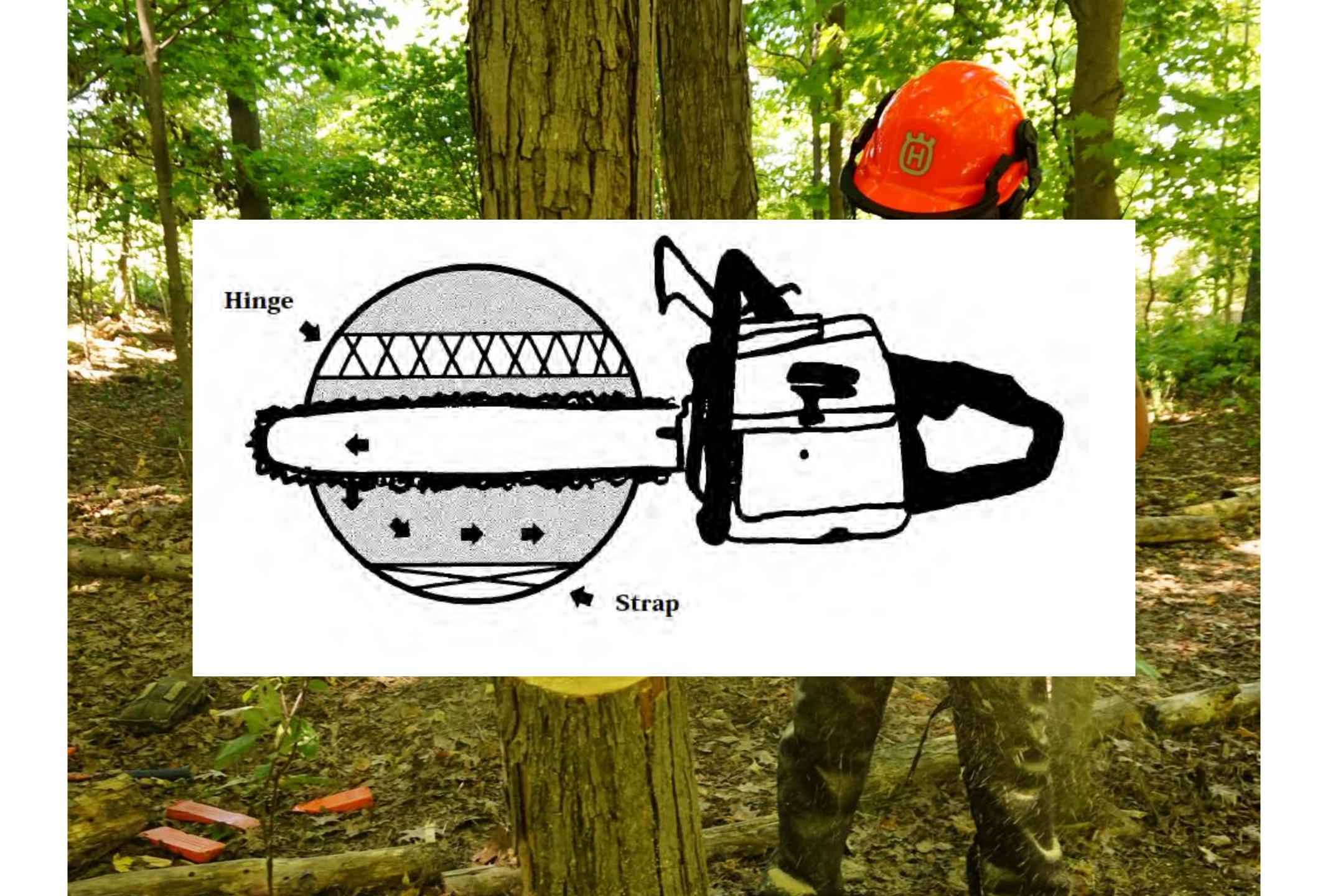












4. Disturbance events to establish forage

shallow tillage?

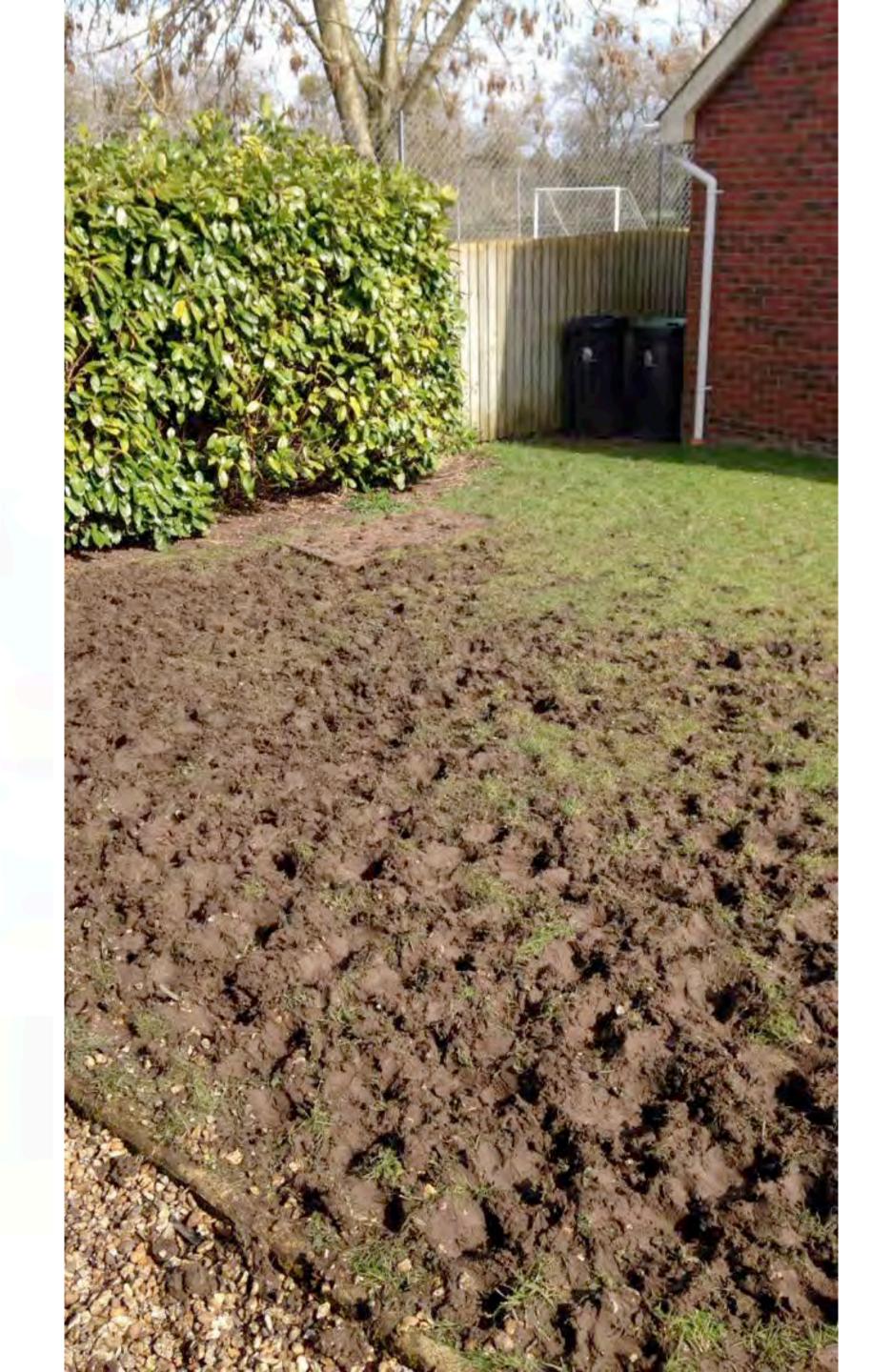
bale grazing

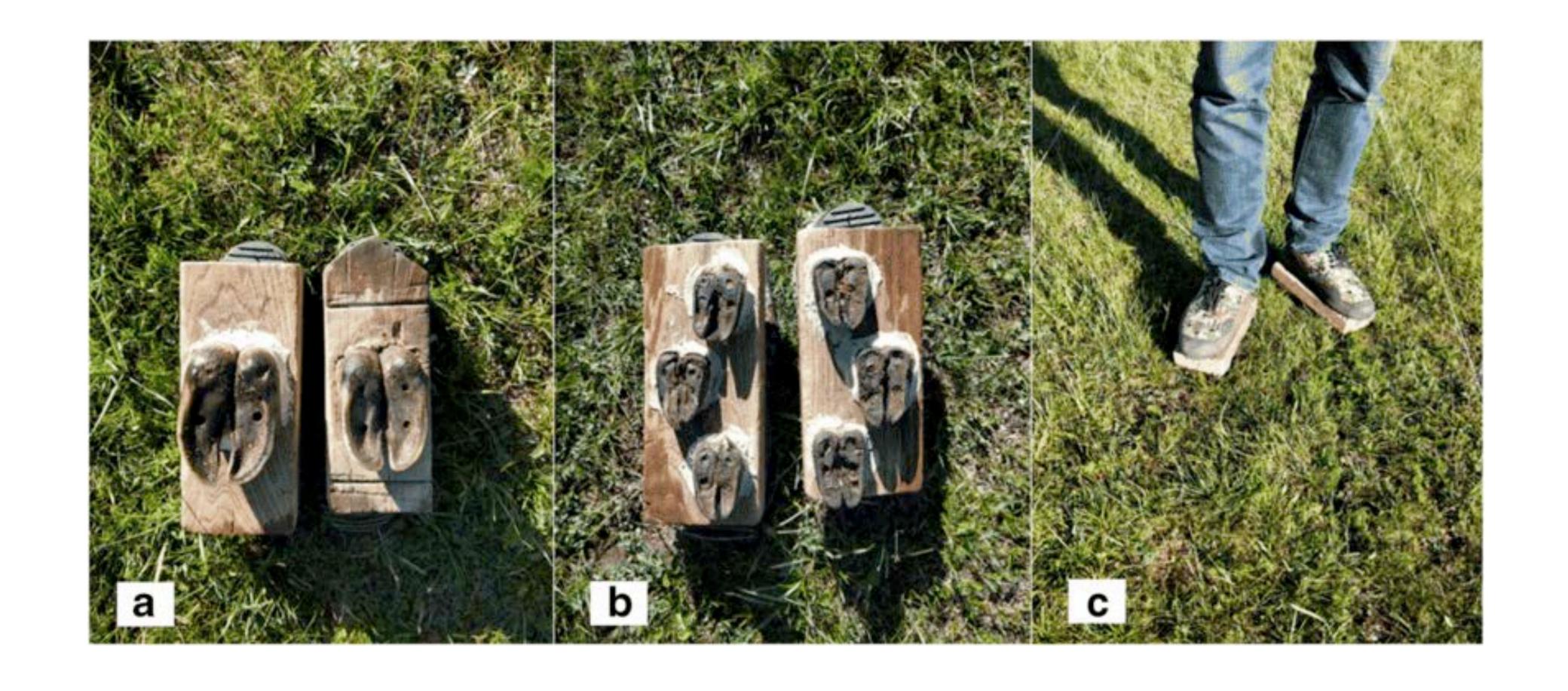
frost seeding

trampling

tarping

machine impact







Species	Rate (lb./acre)		Expected Established Plants*
	Seeded	As Part of Seed Mixture	Plants per square foot
Red Clover	4 - 8	3 - 4	2-5
Birdsfoot Trefoil	4 - 6	2 - 3	6 - 9 (in 2nd year)
Alfalfa	5 - 8	3-4	4 - 6
Ladino Clover	2 - 3	1 - 2	1 - 2
Alsike Clover	2-4	1-2	2 - 3
Perennial / Italian Ryegrass	8- 15**	2-3	10 - 12
Orchardgrass	3 - 4	1 - 2	4
Tall Fescue	6-8	3 - 4	3 - 4
Smooth Bromegrass	Not recommended for frost seeding		
Reed Canarygrass	Not recommended for frost seeding		
Timothy	Not recommended for frost seeding		

^{*} Expected plants based on "alone" seeding rates

^{**} Use higher rate in "bare ground" situations and lower rate in existing sods







THANK YOU!!

Steve Gabriel - stevegabrielfarmer@gmail.com www.WellspringForestFarm.com



Upcoming webinars

- ▼ February 24: Medicinal Grazing and Unexpected Outcomes
- March 7: Beefing Up Your Farm's Brand & Online Presence
- March 29: Business Structure Basics for Your Farm

Grants, Scholarships, Training, Mentorship & More!

- Customized handouts on the nutritional benefits of food from pastured animals Sign up for emails @ foodanimalconcernstrust.org/farmer/

Join us on social media







