



Say Goodbye to Deer Damage: Proven Repellent to Protect Your Forests!

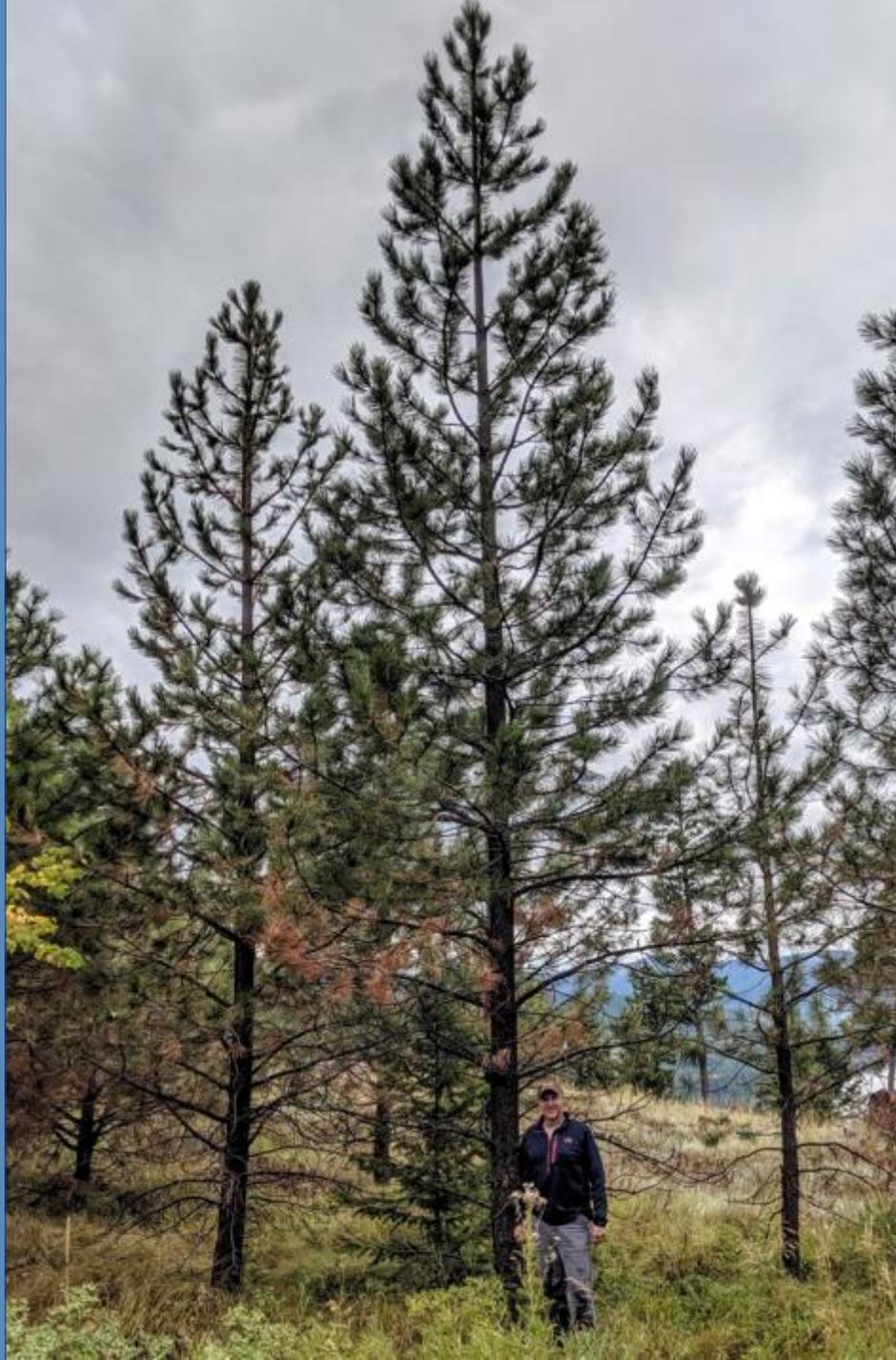


Presented by:
Mark Boardman CF
Sales Manager – Forestry U.S.

December 3, 2025



Kwizda



MARK J. BOARDMAN Certified Forester

EXPERIENCE:

- 35 years forestry experience
- Forest Laborer (Tree Planter, PCT, Wildland Firefighter)
- Forest Technician, Plum Creek Timber Co.
- Forester, F.H. Stoltze Land & Lumber Co.
- PNW Territorial Sales Manager, PRT
- Sales Manager Forestry – U.S., Kwizda North America

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NEW PRODUCT SPOTLIGHT

AGENDA



01

**Trico Pro
History**

02

**Product
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03

**Uses for
Trico Pro**

04

**Trico Pro
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Research, Recent
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**How to Apply
Trico Pro**

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**How to Purchase
Trico Pro**

01

HISTORY

In Europe, hunters and foresters have long used sheep wool as a repellent against deer.

However, its application is labor intensive, time consuming and the protection is short lived. Seeking to overcome these issues **Kwizda Agro sought an alternative** and the idea of using 'sheep fat' as an active ingredient was born.

Through our expertise and experience in developing effective and innovative formulations, Kwizda Agro took 'sheep fat', the active ingredient in TRICO® PRO, and created an effective deer repellent.



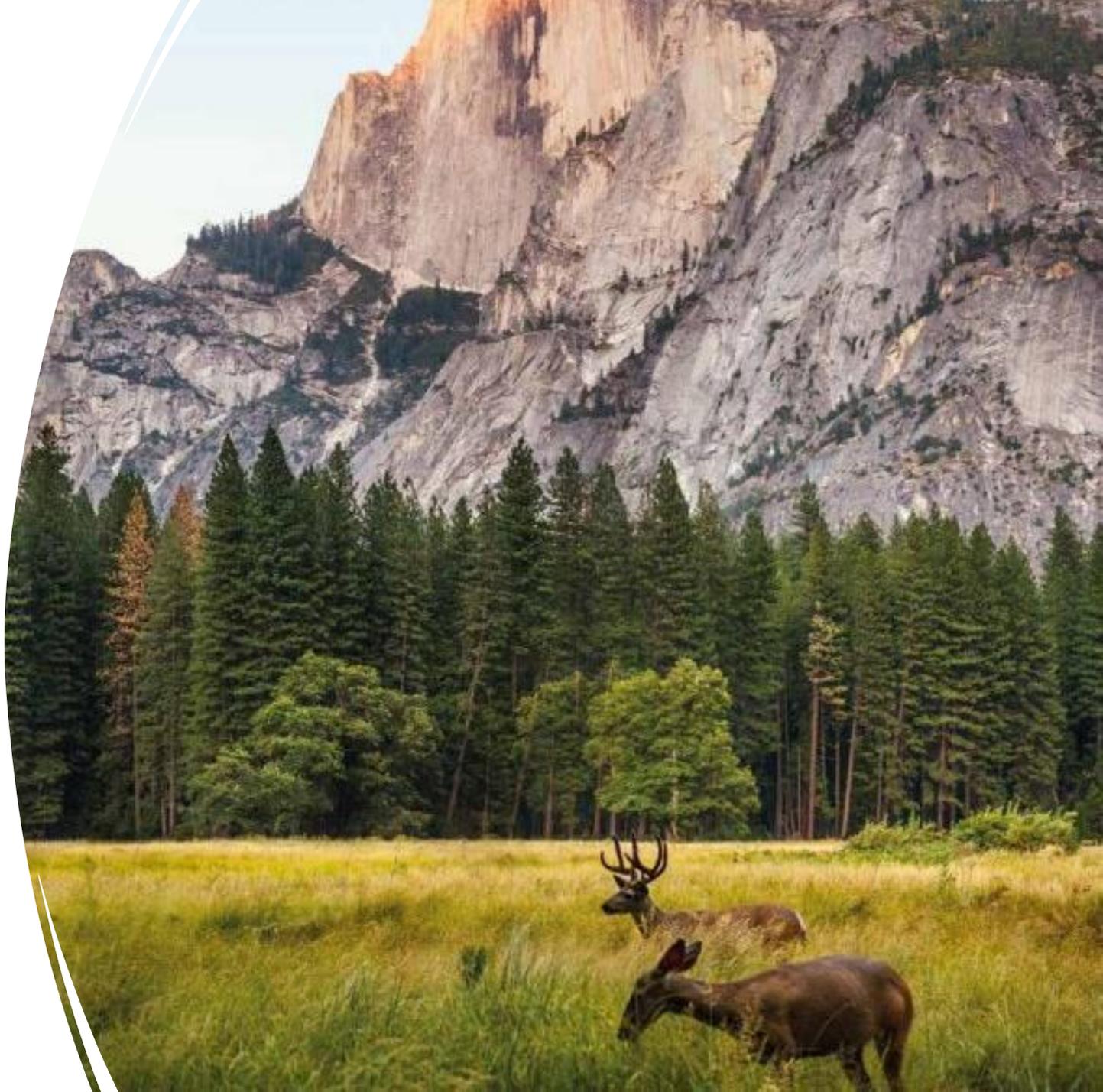
TRICO PRO By Kwizda

TRICO® brand is registered in 21 European countries and North America

20+ years of commercial use

TRICO® brand is the European market leader

TRICO® PRO is a natural alternative for deterring browsing by deer, elk, moose and rabbits



02 PRODUCT DESCRIPTION

Formulation - Oil-in-water emulsion-based sheep fat (6.4%)

- Store only in the original packaging
- Avoid storage temperatures beyond 30°C (85° F) and below 0°C (32°F)
- The product is durable in its original sealed container for two years
- After opening, leftover quantities should be used as soon as possible

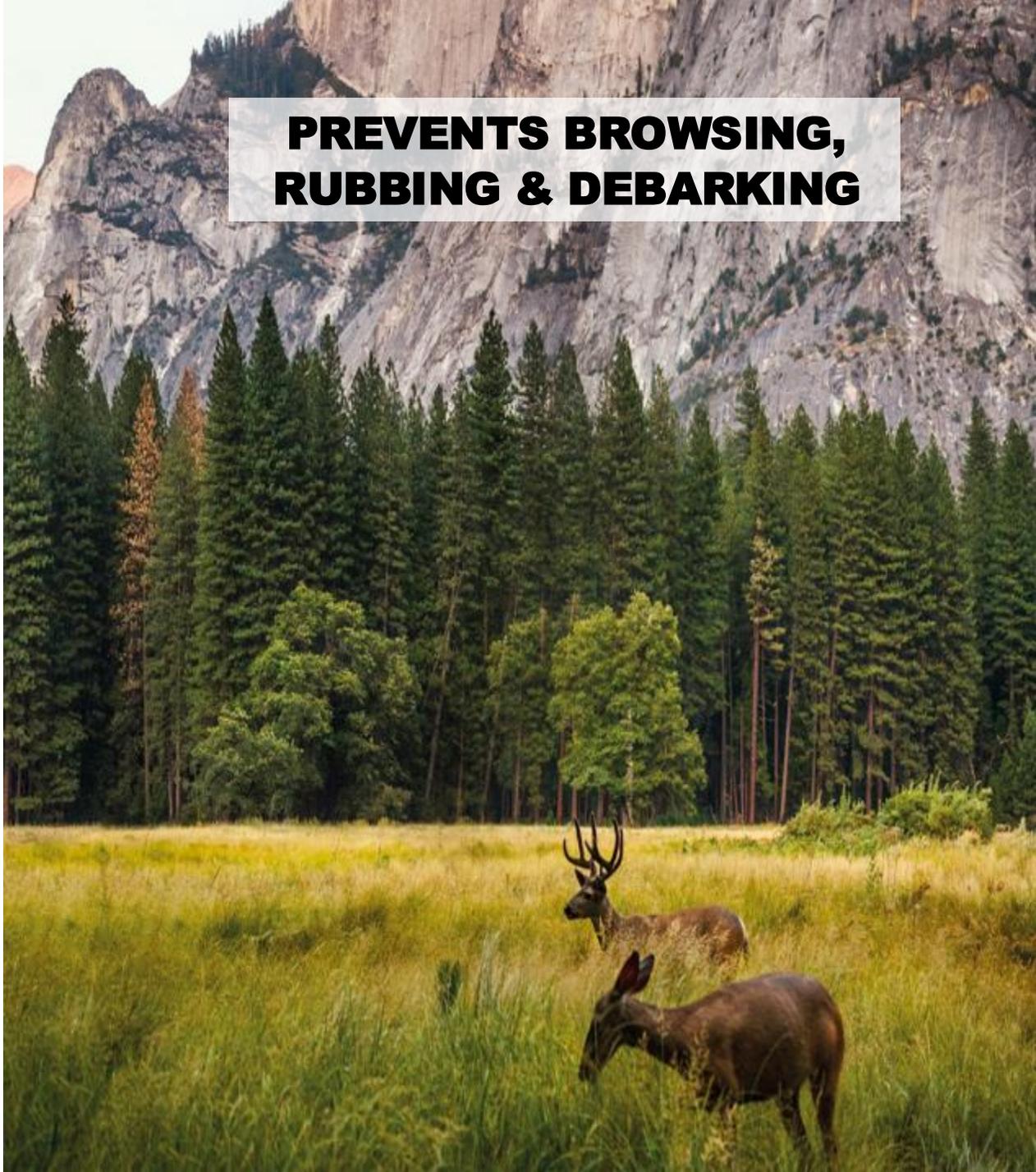




02 TRICO PRO

TRICO® PRO PREVENTS BROWSING, RUBBING AND DEBARKING IN FORESTRY

- It offers long-lasting protection with only one application
- Ready-to-use product with weather resistant formula
- Repels by scent and taste
- Can be used on all type of trees, in all terrains and against all deer
- White color “marker” when applied
- Dries clear and odorless to humans

A photograph of a forest landscape. In the foreground, two deer are standing in a field of tall grass. In the background, there is a dense forest of evergreen trees, and further back, a large, rocky mountain peak is visible under a clear sky.

**PREVENTS BROWSING,
RUBBING & DEBARKING**

03

**USES FOR
TRICO PRO**

**TRICO® PRO PREVENTS BROWSING IN
CHRISTMAS TREE FARMS**

- Common for deer to rub during the rut, right before harvest
- Some seedling browse and new growth
- May use diluted if protecting for rubbing

“Once the deer have begun their browsing, there is no way to salvage a sellable tree. It causes major contract issues for the buyer.” Tom Fetzer, Fetzer’s Tree Farm. New York State





USES FOR TRICO PRO

TRICO® PRO PREVENTS BROWSING IN AGRICULTURE

- Soybeans, Alfalfa, Corn
- Dilutable (reduces longevity)
- Broadcast

ROW CROPS



2 Weeks After Treatment on Soybeans in Mississippi



Untreated

Trico Pro

Trico Pro can lower the number of deer visits per day by more than 50% compared to other repellents, according to research conducted by the Mississippi State University Coastal Plains Experiment Station.



USES FOR TRICO PRO

TRICO® PRO PREVENTS BROWSING IN GARDENS, HOMESITES, RESIDENTIAL AREAS

- Hostas, Arborvitae, Daylilies, Roses, Rhododendron, Azeleas, Yew, Japanese Pittosporum, Pansies and Violas
- Use at full strength, don't dilute



USES FOR TRICO PRO

TRICO® PRO PREVENTS BROWSING IN VINEYARDS and HOPS

- May need multiple applications to protect new growth
- May dilute, due to short efficacy needed
- Last application at flowering

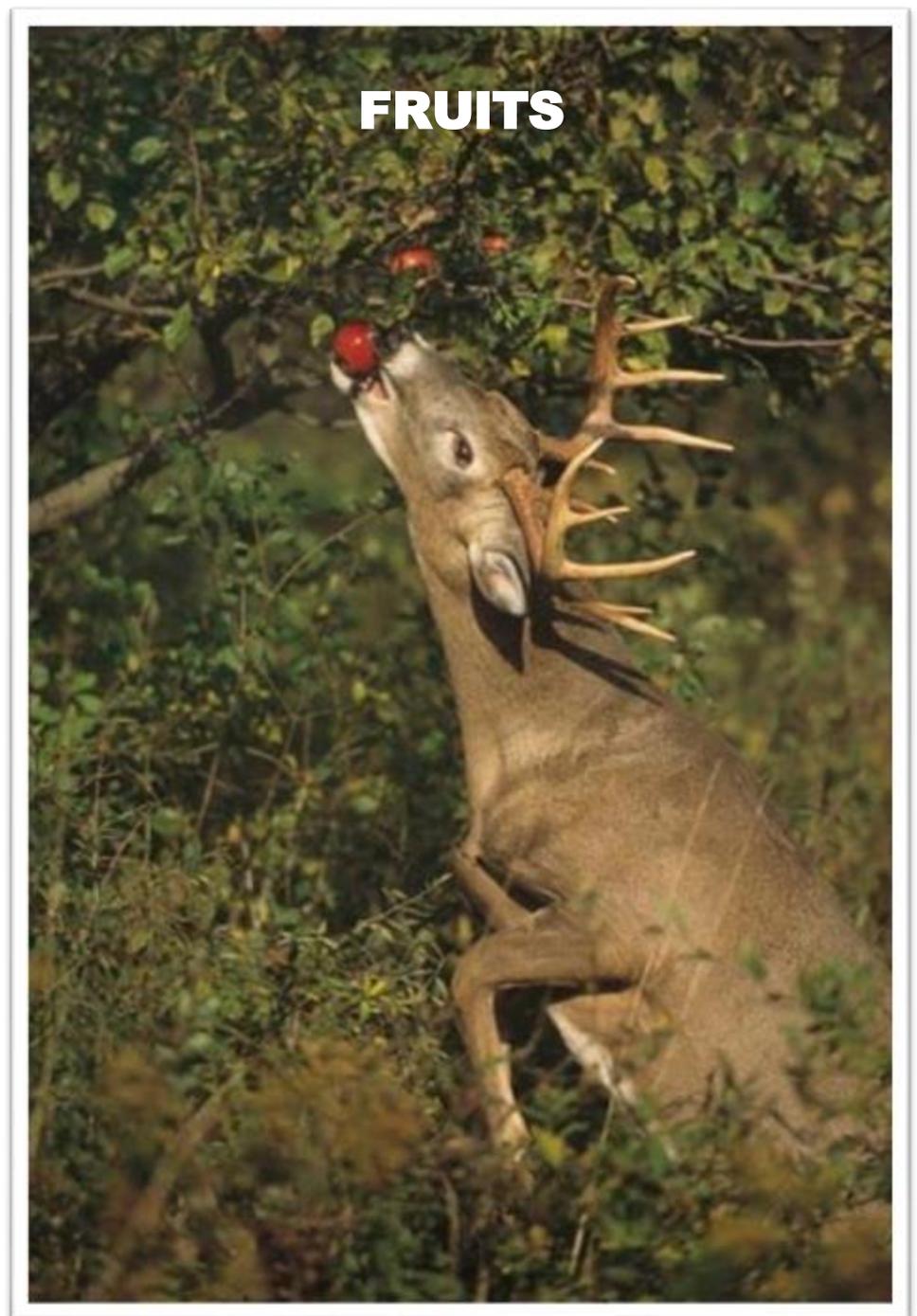




USES FOR TRICO PRO

TRICO® PRO PREVENTS BROWSING IN FRUITS and VEGETABLES

- Apples, Cherries, Blueberries, Carrots, Peas
- May need multiple applications to protect new growth
- May dilute, due to short efficacy needed
- Last application at flowering



04

**RESEARCH &
DEVELOPMENT**
FIELD TRIAL DATA & PHOTOS

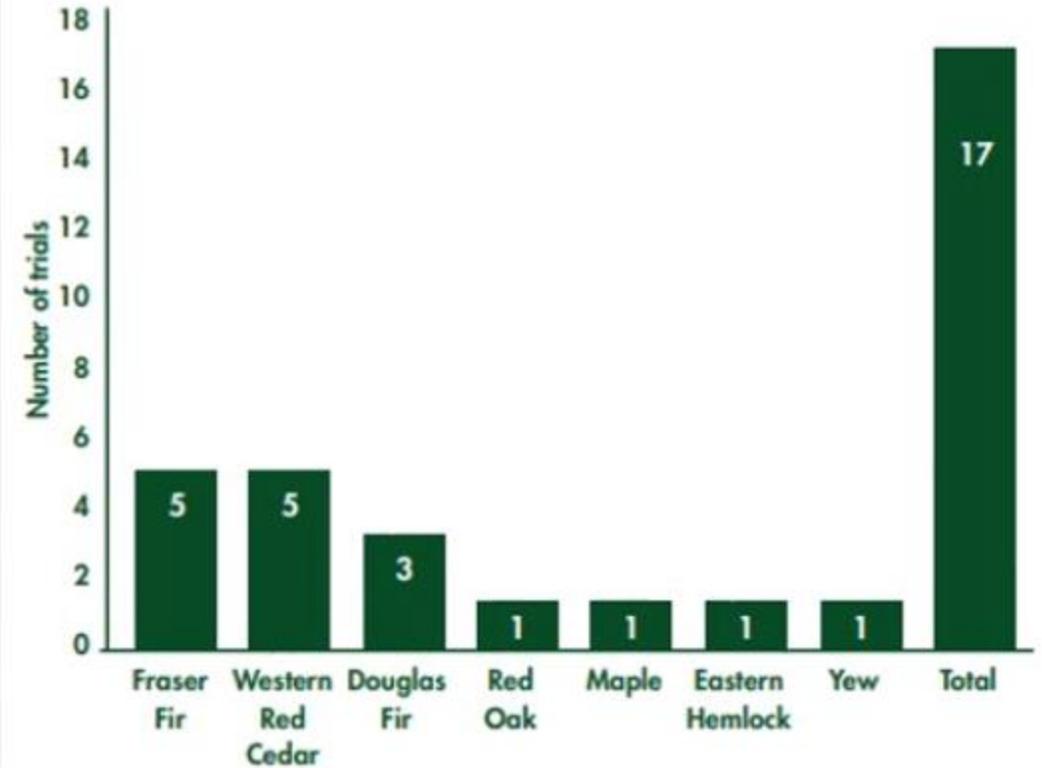


TRICO PRO RESEARCH TRIALS



17 Registrations and Academic Trials
2017 - 2020

TRICO® PRO RESEARCH



Time Period: 2017-2020. 17 Registration and Academic trials at various institutes including Cornell University & USDA APHIS Wildlife Research Center in the USA and Canada



04

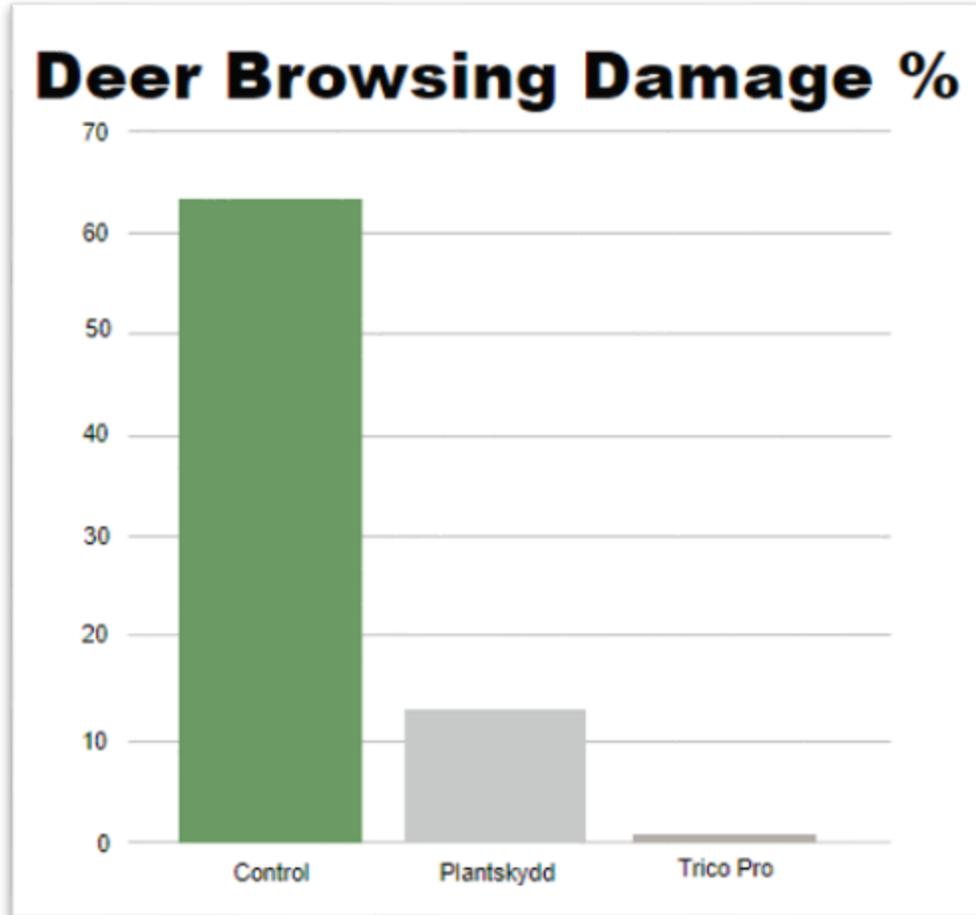
RESEARCH & DEVELOPMENT POST 2020



DEER BROWSING DAMAGE



Michigan State University, Tree Research Center



Michigan State University, Tree Research Center
Fall & Winter, 2022
Crop: Turkish Fir, Fraser Fir, grand fir, Korean Fir

GREAT LAKES CHRISTMAS TREE JOURNAL



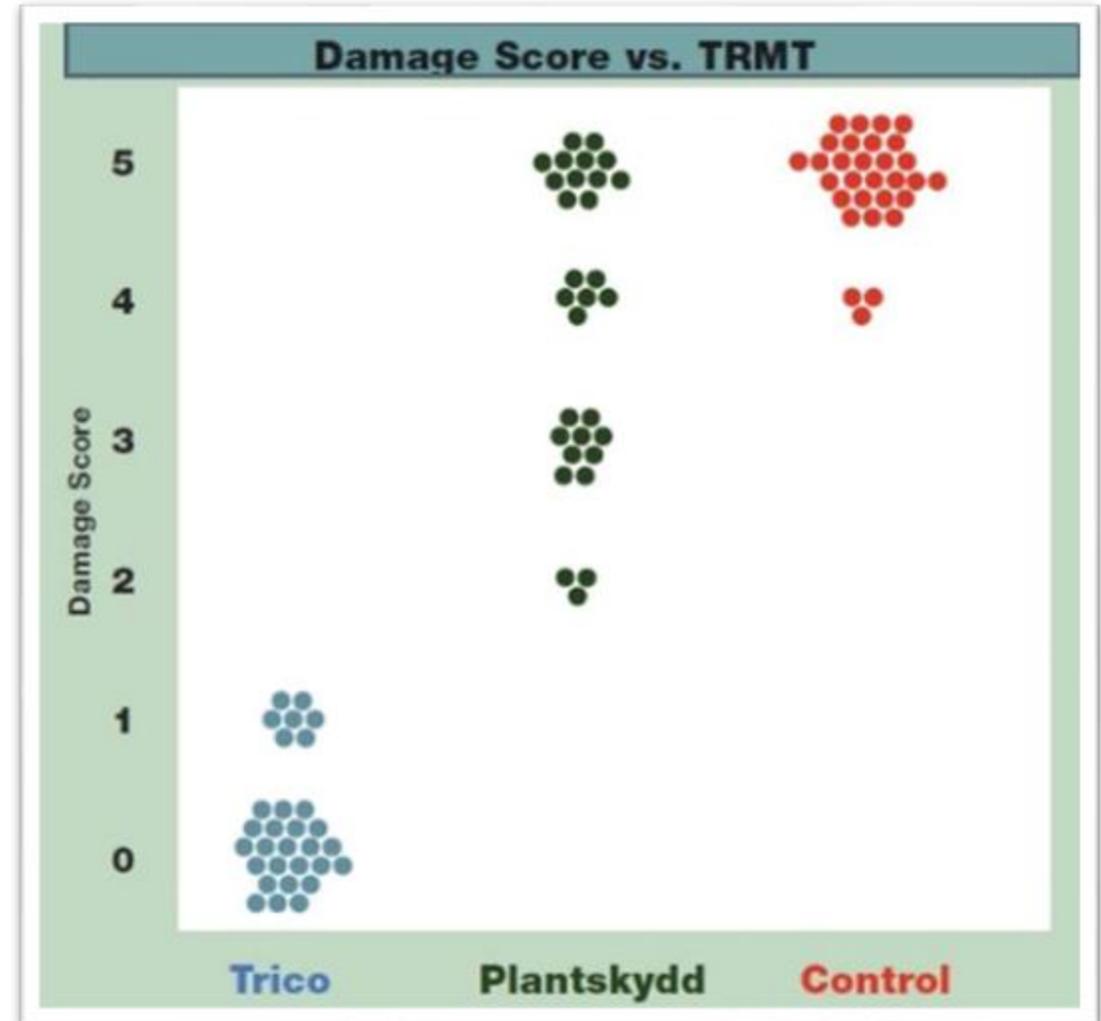
Paul Curtis and Brian Eshenour
Extension Forestry
Cornell University, Ithica, NY

Damage scores for white-tailed deer browsing
on fir trees by treatment during winter 2020-21
at the Sweeting Farm near Wellsville, New York

**Dots are scores for individual trees, and
damage scores were**

- 0= no damage
- 1= 1-20% limbs browsed
- 2= 21-40% limbs browsed
- 3= 41-60% limbs browsed
- 4= 61-80% limbs browsed
- 5= >80% limbs browsed

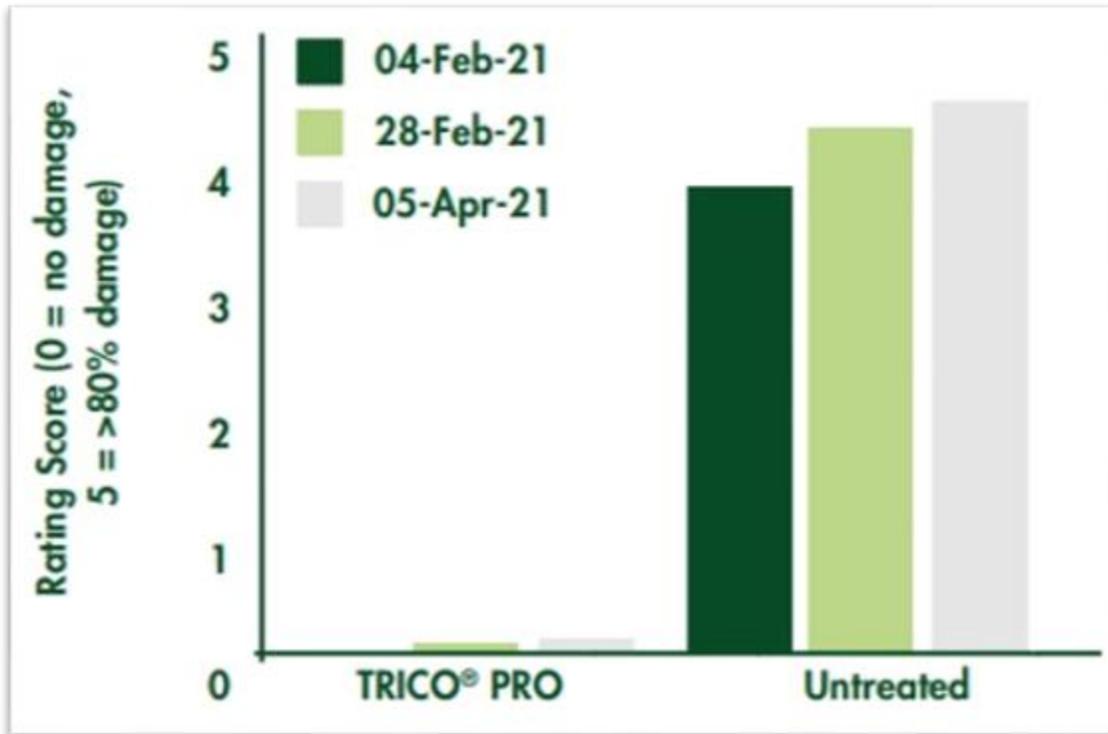
Cornell University, Ithica, NY



YEW TRIAL



Yew tree (*Taxus* spp) trial. Rochester, New York. April 5th 2021
Graph and photograph courtesy of Cornell University)



ROW CROPS



Year 2024 | **Planted** April 18 | **Applied** May 10 | **Photo** August 27



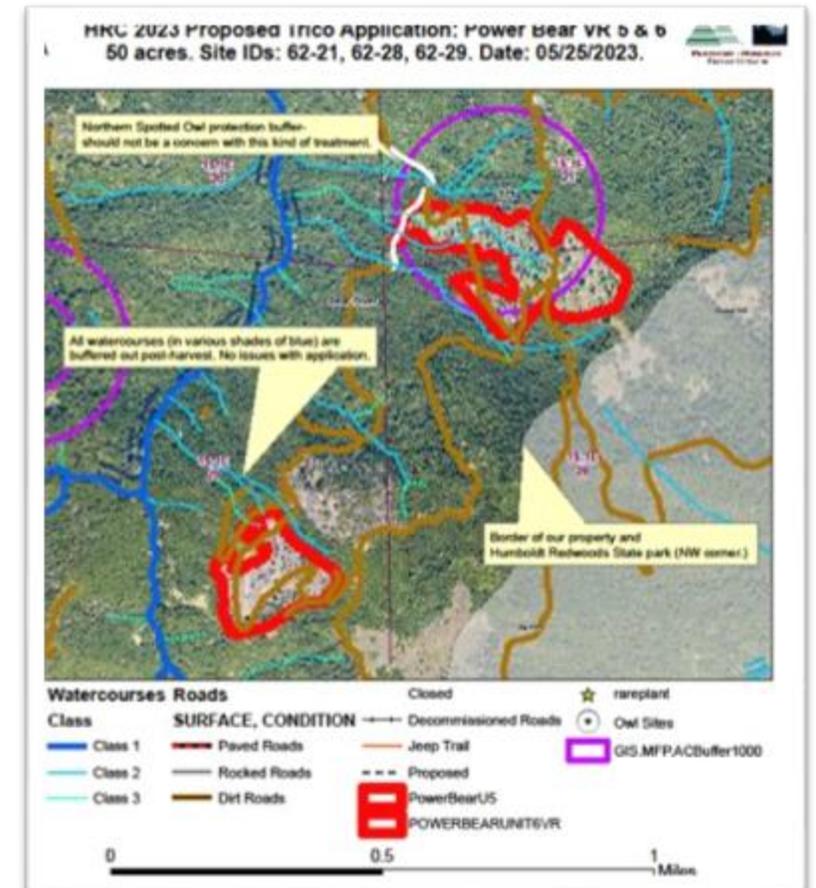
HRC 2023 TRICO PRO APPLICATION PROJECT



Humboldt Redwood Company 2023

Project Details:

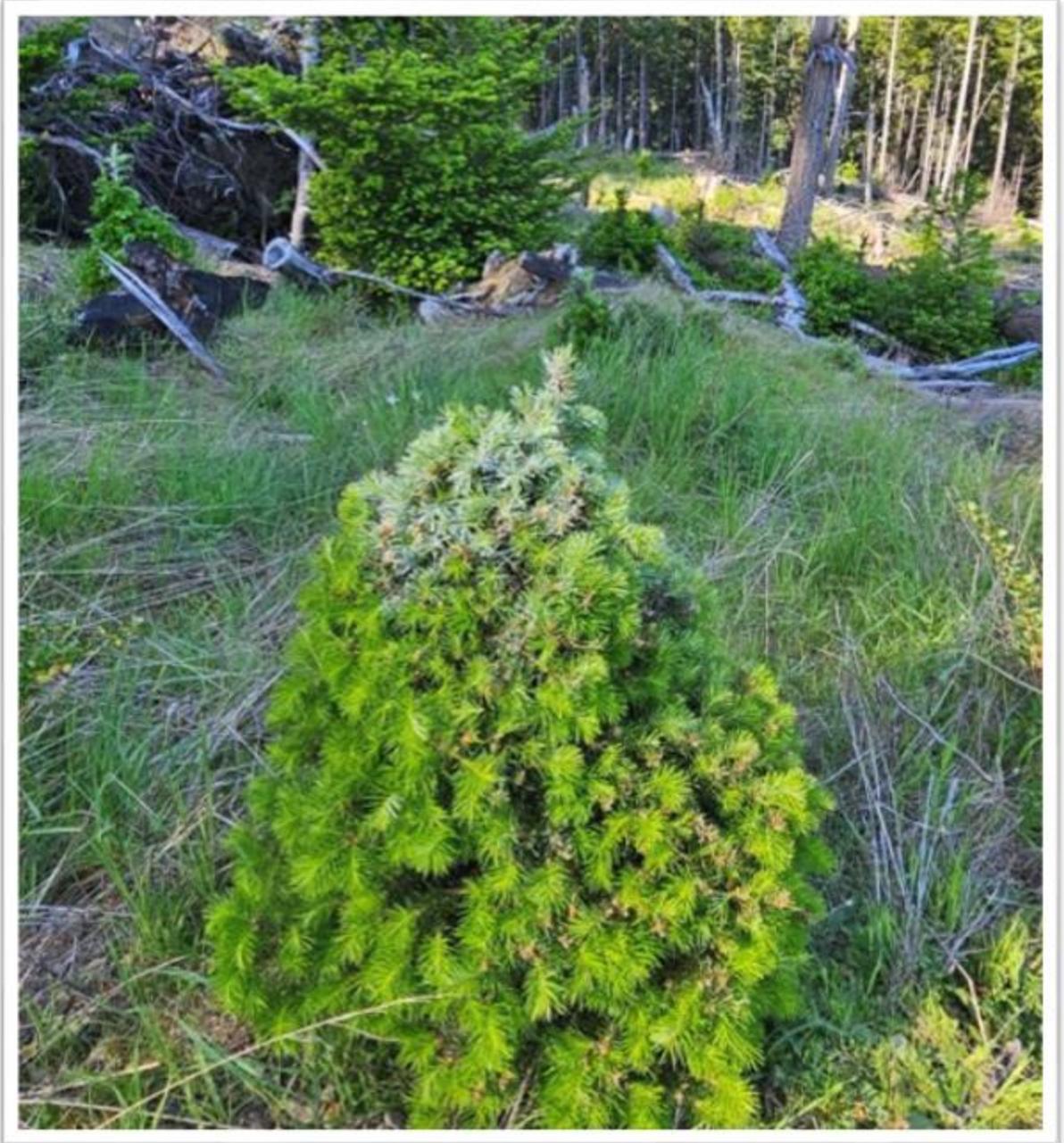
- Location: Humboldt County, CA
- 2 Units totaling 37 acres, planted and vexar tubed December 2017
- 45 gallons of Trico Pro applied on May 25th, 2023
Warm sunny day high of 70 deg F, no rain predicted, lower humidity 30%
- First unit 17 acres, heavily browsed seedlings on approx. 12' x 12' spacing, 303 TPA = 5,151 total trees treated. 128 oz/gallon x 20 gal = 2,560 oz Trico Pro used. Application rate per seedling was .49 oz/seedling. 9 applicators, approx. 20 gallons of product used = 1.17 gallons/acre.
- Second unit 20 acres, 303 TPA = 6,060 seedlings, 25 gallons Trico Pro, .52 OZ/Seedling. 25 gallons used / 20 acres = 1.25 gallons per acre.
- Unit in Sec 29 no die was used, Unit in Sec 21 & 28 Blue die was used



TRICO PRO APPLICATION



Trico Pro goes on with a white hue, but dries clear



TRICO PRO APPLICATION RESULTS



Effective results 3 months after treatment



TRICO PRO APPLICATION RESULTS



Effective results 6 months after treatment

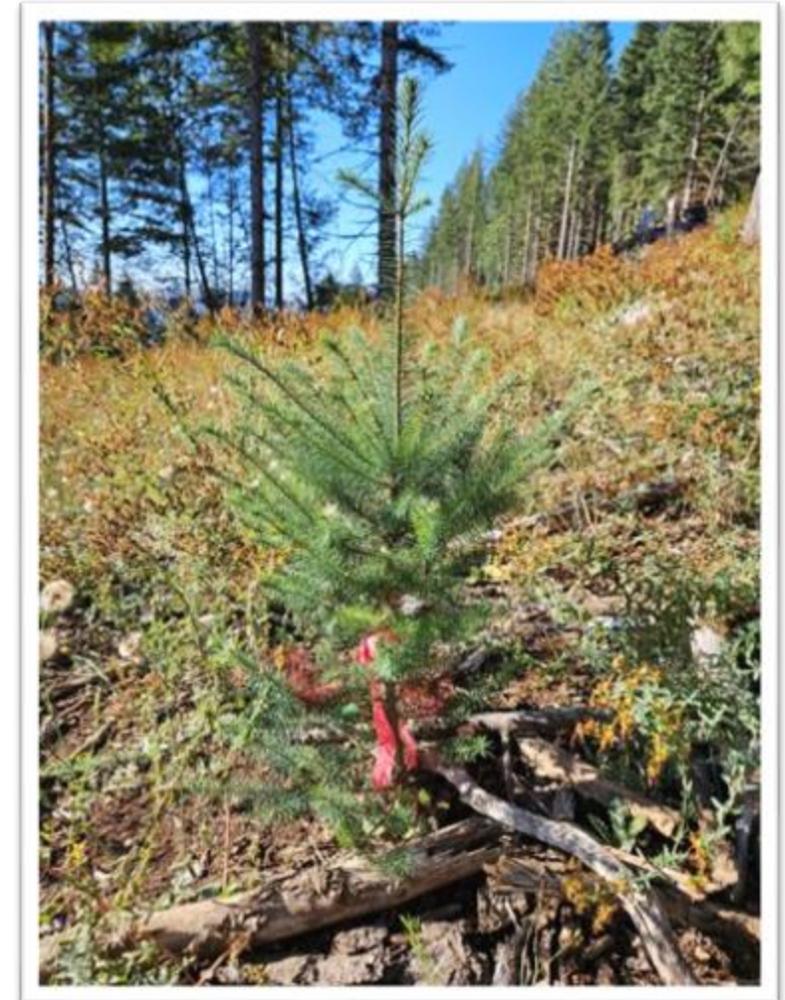


TRICO PRO APPLICATION

WADNRC (Washogal River, WA) - TRICO PRO Treated Seedlings



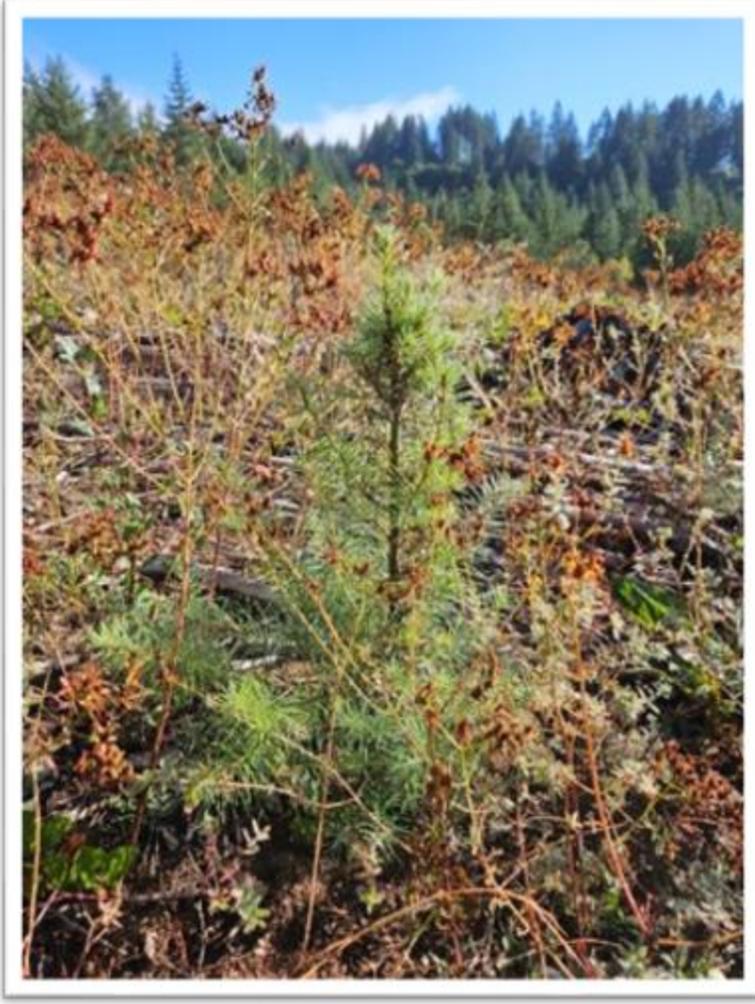
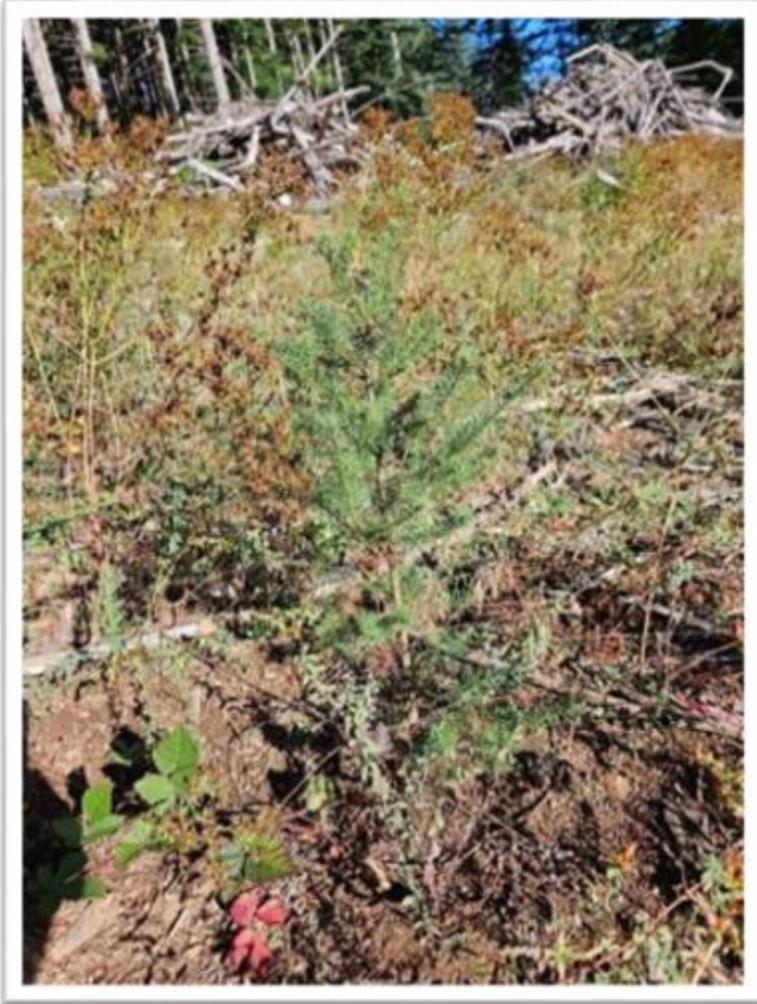
Treated September 2022, Photo Sep 2023
≈ 95% of the treated seedlings have no browse



WADNR CONTROL (UN-TREATED SEEDLINGS)



≈ 95% of the untreated seedlings have browse



BROWSE COMPARATIVE PHOTOS



Trico Pro Treated Seedlings vs. Control



← **Trico Pro Treated**
78 cm

Control
53 cm →



BROWSE COMPARATIVE PHOTOS



Trico Pro Treated Seedlings vs. Control



← **Trico Pro
Treated 83 cm**

Control →



BROWSE COMPARATIVE PHOTOS

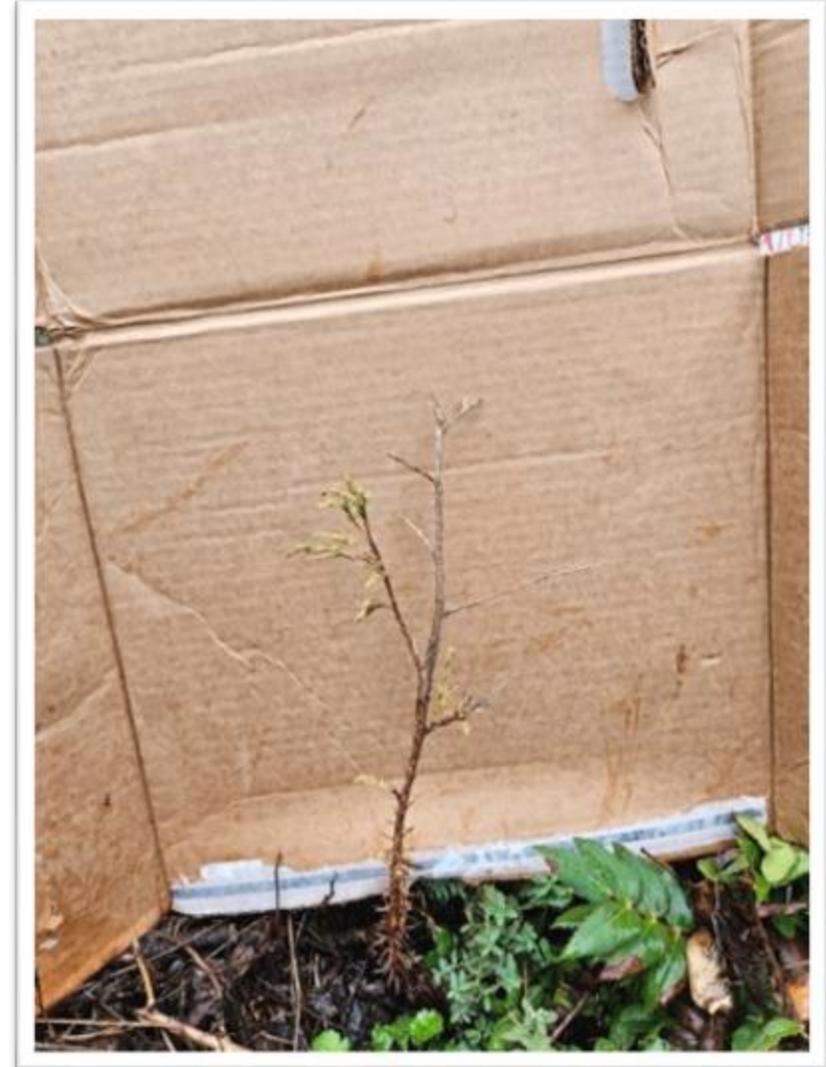


Trico Pro Treated Seedlings vs. Control



← **Trico Pro Treated**

Control →



Montana Department of Natural Resources and Conservation

Forester Kayla Johnson

Operational Trial of Trico Pro
Application over newly planted Poderosa Pine
seedlings

Applied May 1&2, 2023

Photo July 25, 2023



Guistina Land and Timber Company

Forester Justin Doyle

Operational Trial of Trico Pro

Application over Douglas-fir seedlings at the nursery

Applied at the nursery Spring 2024

Photo August 29, 2024



Idaho Department of Lands

Program Manager Tyler Nelson

Operational Trial of Trico Pro
Application over Douglas-fir seedlings in the field
one month after planting.

Application May 1, 2024

Photo October 25, 2024



Control
No Treatment



Examples of Vexar Tree Tubes.
Cost is approx. 10 times Trico
applied and product.



**Vexar Tubes
10 times the cost
Not reliable**



**Vexar Tubes
10 times the cost
Not reliable**



**Vexar Tubes
10 times the cost
Not reliable**



2025 successful case studies

Green Diamond Shelton WA. (April 14, 2025)



Unbrowsed DF on the left, Bud Capped DF middle and Control on the right

Shelton, WA (Puget Sound Coast)

Trico applied over seedlings with 1 qt. spray bottle

Great protection of DF where an adjacent landowner was suffering from high browse
Photo is of Silvicultural Forester Evan Whitney.



PotlatchDeltic (March 21, 2025)



Trico Pro Protected
on the Left

Control on the
Right

PotlatchDeltic (March 21, 2025)



Trico Pro
Protected on
the Left

Bud cap on the
Right

JD Forest Management (March 27, 2025)



WRC planted
Spring 2024.
This is the
third
application.

Pictures from September 9, 2025



Bennett Lumber (March 26, 2025)



Afforestation
plantation of PP
planted into an old
hay field.



Unbrowsed Trico Pro protected Douglas-fir (DF) Seedling on left. Browsed DF Seedling on right.

Photos of untreated DF pulled out of the ground by elk. At least a dozen seedlings were observed that had been pulled out of the ground on the untreated unit and none on the Trico Pro treated unit.





Unbrowsed Trico Pro protected WRC Seedling on left.
Browsed WRC Seedling on the right. I was told that the
seedling on the right was highly diluted Trico Pro.



Thompson Timber Co. (April 8, 2025)

Photo of Thompson Timber Co. Forester Jayme Dumford



(Oct 29, 2025)



Swanson Group (April 9, 2025)



Photo of Happy Silvicultural Forester Rob Lay from Swanson Group



There was a lot of deer and elk sign around.

Elk antler found in the plantation.

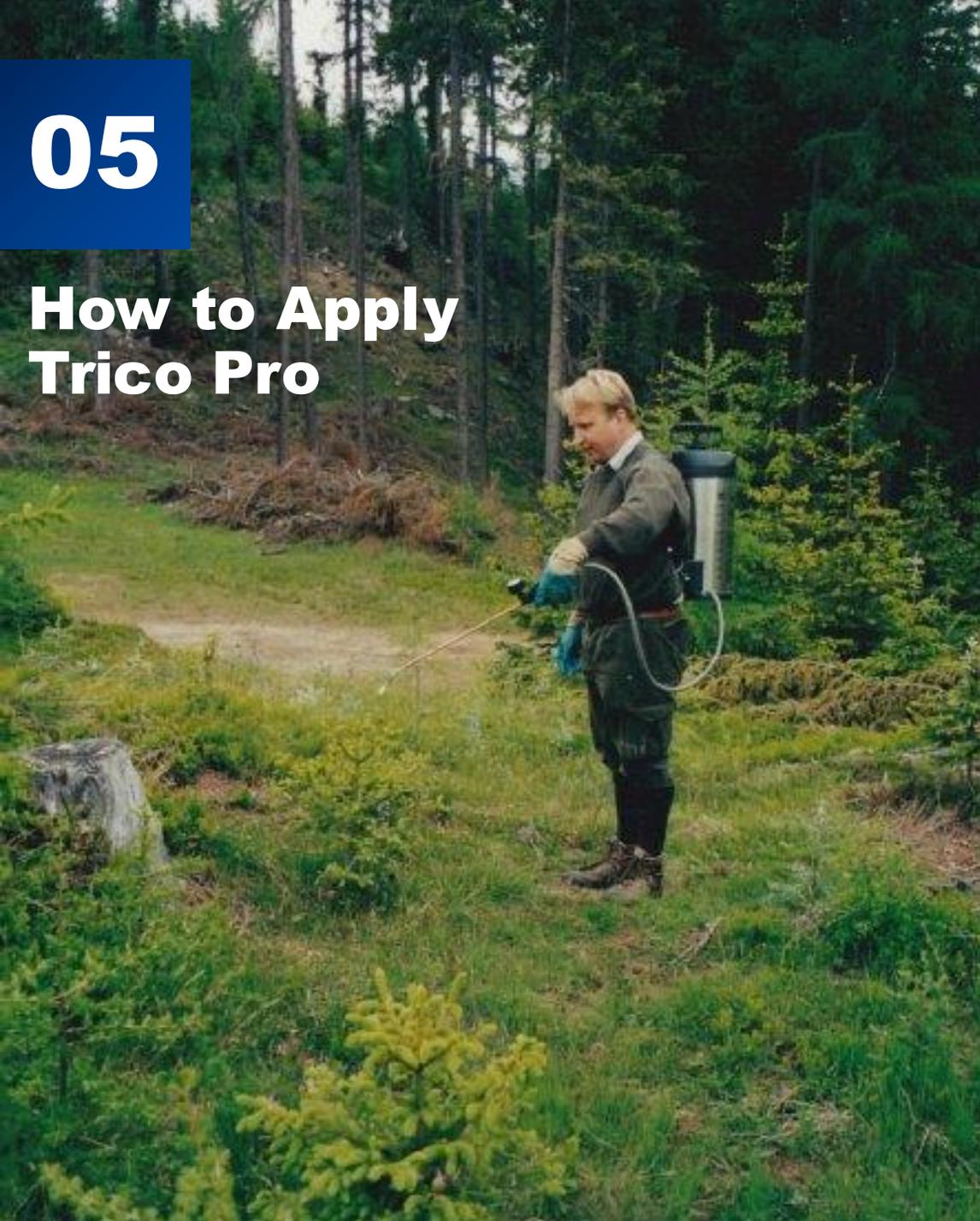
Elk track down and to the left of seedling.





05

How to Apply Trico Pro



How to apply Trico Pro

Use a hand-held, backpack or garden sprayer with flat fan or cone nozzle. TRICO® PRO is sprayed directly on the terminal leader and tops of young trees and shrubs which are particularly exposed to damage by browsing of deer, elk or moose.

For normal container sized seedlings apply approximately 1 gal/1,000 (0.13 oz/ seedling) of undiluted TRICO® PRO.

Make no more than two applications of 2.2 gal./acre per year.

Always apply TRICO® PRO under dry conditions. Drying time can take up to 6 hours.





How to apply Trico Pro

- Apply only under dry conditions. Drying period depends on weather conditions. Under low humidity conditions, drying is expected to
- Take a maximum of 6 hours. Once dried, TRICO® PRO provides excellent rain resistance. Apply only at temperatures above 35° F and below 85° F
- Avoid application in direct sunlight on hot days to avoid damage to plant material, for best results apply in early mornings after dew has dried and later in the afternoon. Don't apply if temperatures are expected to exceed 85 degrees.
- Protect from freezing. Freezing makes Trico Pro unusable.
- Before large-scale treatments or application in combination with other products, test product on a small area to avoid possible damage.
- Do not apply other products one week prior or after application of Trico Pro, unless compatibility has been confirmed. Be aware, sheep fat may increase the effect of other pesticides.
- Do not apply more than 16 fl. Oz. of product per 2,550 sq. ft.
- Do not exceed six applications per year.
- Shake container thoroughly before use.
- Apply full application rate with a sprayer as a light "mist" with fine droplets until just before run-off.

TRICO PRO APPLICATION EQUIPMENT



Jacto DJB-S



Adjustable cone



Adjustable cone



TRICO PRO APPLICATION EQUIPMENT



Adjustable cone



Nozzle Screens
100



Replace with
Nozzle Screen
50



CHOOSE A METHOD BEST FOR YOU



**Nursery
Application**



Dipping



**Backpack
Spraying Over
the Top of
Seedlings**



**Apply Over the
Top of
Seedlings
Directly Behind
Planters**



**Apply Over the
Top of
Seedlings
After, or Near
Apical
Elongation
Growth Ceases
and a Terminal
Bud is Formed**





Arbutus Grove
Nursery





Trico Pro Application Pre-Planting

Average cost \$0.038 / seedling

4 separate planting blocks, ≈ 500k seedlings



Trico Pro Application Methods



Average cost \$48.65 / acre

5 separate planting blocks, \approx 800k seedlings (\$37.50, \$51.55, \$53.45, \$54.07, \$90.00)

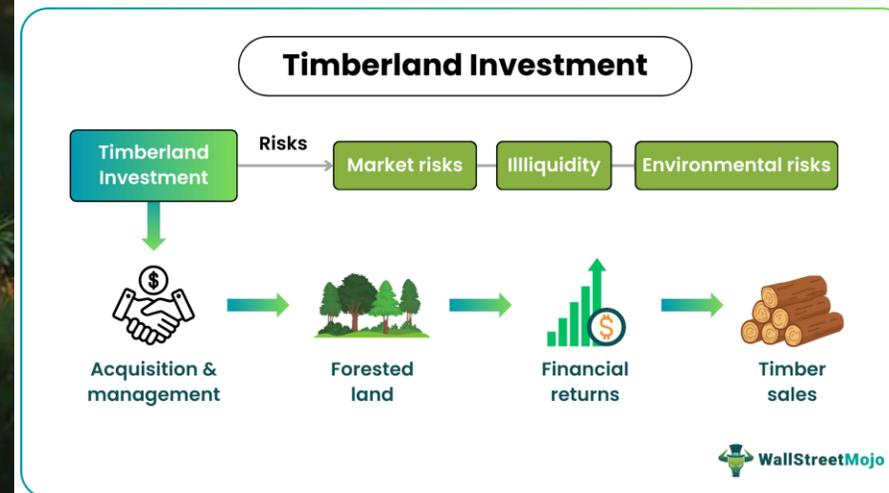


Cost vs. Benefit & Return On Investment

- Reduce Replant/ Interplanting
- Reduce Stocking / TPA
- Smaller Stock Sizes



- Reduce time for Adjacency/“Green-up rule”
- Reduce rotation time
- Increased volumes



TRICO PRO PRODUCT LABEL



REPELLENT FOR PREVENTING BROWSING DAMAGE CAUSED BY DEER, RABBITS, ELK, AND MOOSE IN RETAIL FOREST AND CONIFER NURSERIES, PLANTATIONS, RETAIL OUTDOOR NURSERIES (INCLUDING CONTAINER, BENCH, FLAT, PLUG, BED-GROWN AND FIELD-GROWN ORNAMENTALS, AND FRUIT TREES), COMMERCIAL LANDSCAPES, FORESTS, AND AGRICULTURAL SITES

ACTIVE INGREDIENT	
Sheep fat	6.4%
OTHER INGREDIENTS	93.6%
TOTAL	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See panels for First Aid, additional precautionary statements and Directions for Use

EPA Reg. No. 71637-2-5905
EPA Est. No. 5905-GA-001

AD 031323HAE



Manufactured For
HELENA AGR-ENTERPRISES, LLC
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TENNESSEE 38017 U.S.A. • (901) 761-0050

TRICO PRO SAFETY DATA SHEET



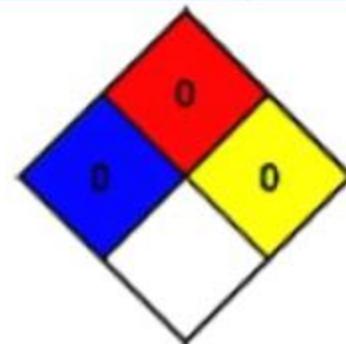
TRICO_{PRO}



TRICO® Pro Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

06

 TRICO PRO



**TO LEARN MORE ABOUT TRICO PRO
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**TO PURCHASE TRICO PRO
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Questions



THANK YOU

Kwizda