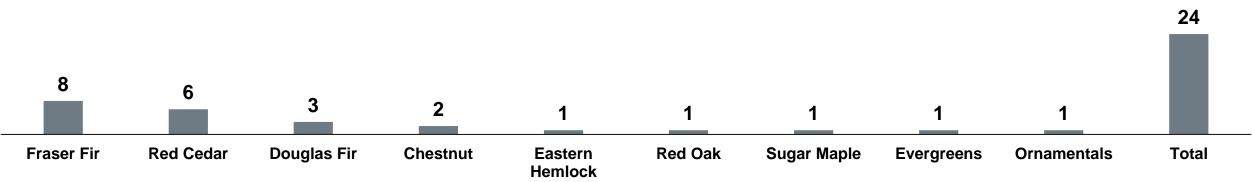






## **Trico North American Academic Trials, 2017-2022**

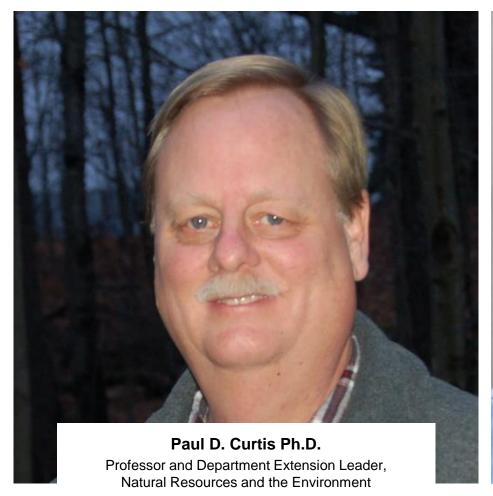


Source: 24 Registration trials or trials or trials or trials with official academic institutes such as Infinity-Pacific Stewardship Ltd., USDA APHIS Wildlife Research, Cain Vegetation Inc., University of Maine, Cornell University, North Carolina State University in USA and Canada





#### MULTIPLE RESEARCH IN FORESTRY AND HOME LANDSCAPES BY CORNELL UNIVERSITY





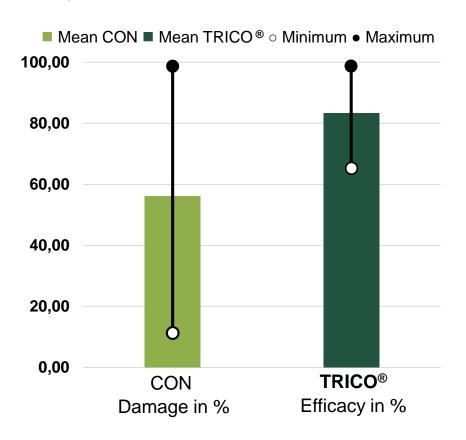






## **EFFECTIVE FOREST PROTECTION**

Efficacy (%) against Winter Browsing by Deer and Elk 10 trials, 2017-2022 in USA and Canada





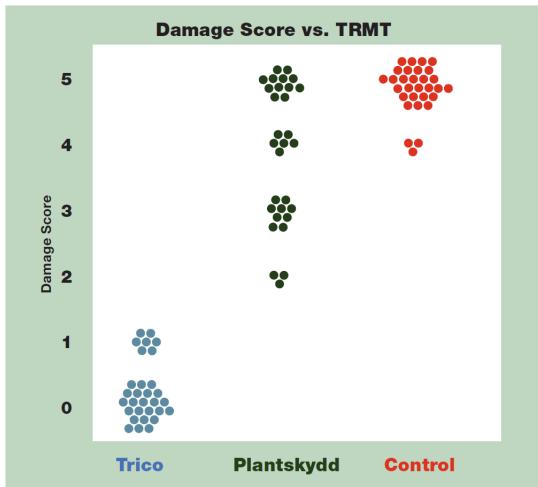






## TRICO® endorsed by Cornell University for use in Christmas trees





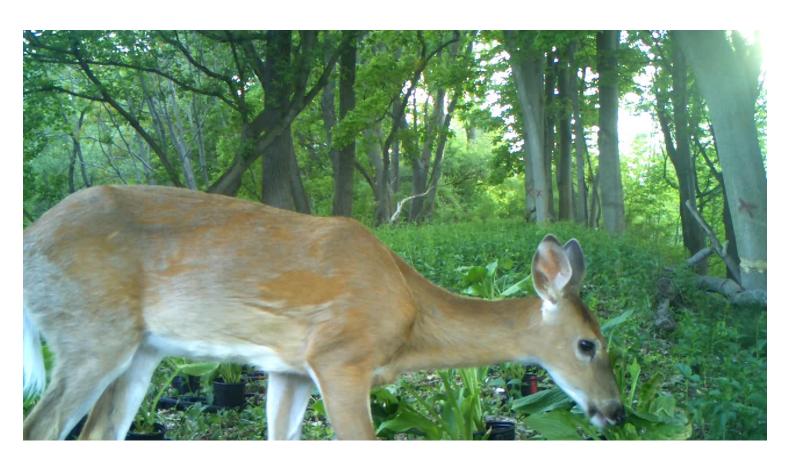
Damage scores for white-tailed deer browsing on fir trees by treatment during winter 2020-21 at the Sweeting Farm near Wellsville, New York. Black dots are scores for individual trees, and damage scores were 0= no damage, 1= 1-20% limbs browsed, 2= 21-40% limbs browsed, 3= 41-60% limbs browsed, 4= 61-80% limbs browsed, and 5= >80% limbs browsed.



#### **EFFECTIVE PROTECTION IN HOME LANDSCAPES**

# RITZBÜHEL 2022 TRICO\* FORESTRY CAMPUS GROW TO GETHER

## Deer feeding on delicious untreated Hosta plants - TRICO® did not taste good



5 test plots in separate locations around upstate New York

Absolutely no browsing compared to control plants (treated with Plantskydd or non-treated)

Article will be published in the journal Human-Wildlife Interactions

**Source:** P. D., Curtis and B. C., Eshenaur (2022): Trico: A Novel Repellent for Preventing Deer Damage to Ornamental Shrubs. Cornell University, Department of Natural Resources and the Environment. New York State Integrated Pest Management Program, New York. The article will be published in the journal Human-Wildlife Interactions.



### **EFFECTIVE PROTECTION IN HOME LANDSCAPES**



TRICO®: A novel repellent for preventing damage caused by white-tailed deer (Odocoileus Virginianus) to Japanese yew shrubs (Taxus media 'Hicksii')







**TRICO**®

**PLANTSKYDD** 

**CONTROL** 

**Source:** P. D., Curtis and B. C., Eshenaur (2021): Trico: A Novel Repellent for Preventing Deer Damage to Ornamental Shrubs. Cornell University, Department of Natural Resources and the Environment. New York State Integrated Pest Management Program, New York. The article will be published in the journal Human-Wildlife Interactions.





#### NORTH CAROLINA STATE EXTENSION DEER REPELLENT RESEARCH



#### NC STATE EXTENSION DEER REPELLENT RESEARCH

SUPPORTED BY NCCTA FUNDS & KWIZDA AGRO

#### JEFF OWEN WORKED ON DEER REPELLENTS FROM 2002 TO 2012

- Worked with commercial deer repellents initially
- Evaluated temporary fencing & integrated commercial repellents ■ Tested less-expensive bulk products from the pet food supply chain Inedible egg powder
- Spray dried red blood cells
- Evaluated backpack, ATV-mounted, & cannon mistblower sprayers

#### 2020 TRICO REPELLENT EVALUATION

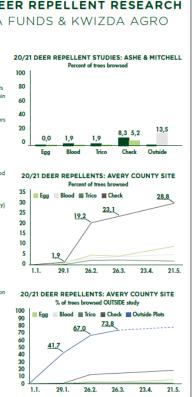
- Trico is a European product made from sheep fat
- Set up 4 studies at sites with previous browsing ■ Tested Trico against bulk inedible egg, bulk spray-dried red blood
- cells, and untreated check plots
- Replicated plots were separated by 15 ft. buffers Trico was applied in December ONLY
- Bulk egg and blood were applied twice (in December & February)

#### 2021 RESEARCH RESULTS

- Lost one study because trees were trimmed Two sites had very light injury (see bar chart)
- Avery site incurred severe deer browse
- Traditional research plot design was problematic
- Deer seemed to largely avoid treatment greas · Change from previous research was Trico
- Trico appeared to be more effective with only a single application

#### 2021-2022 RESEARCH PLANS

- Repeat 20-21 treatments in larger block designs Add promising repellents to treatment list
- Monitor growers' scarecrows, flagging tape, etc.
- Dr. Whitehill is studying deer-repellent terpenes







#### **Jeff Owen**

Area Extension Forestry Specialist North Carolina State University

"Results were incredible, as the deer basically stayed completely off of the plot and everything the perimeter"

