New Requests for : halauxifen-methyl and florasulam.

Date of Request:

6/16/2025 8:46:00 PM

Name:

Marcelo Moretti

Affiliation:

Oregon State University

State:

OR

ProjectType:

ConductCropSafety

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Pseudotsuga menziesii

Common Name: Christmas tree (Douglas fir)

Plant Stage: actively growing

UseSite:

field

TradeName:

Quelex

ActiveIngredients: halauxifen-methyl and florasulam.

Rate Per Application: 0.55 to 0.75 oz/A

Volume Per Application: 20 GPA

Number of Applications: 2

Application Interval: 30

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: Weed control is essential for Christmas tree survival during dry summers in Oregon. There are

Related PRNumbers:

currently small number of post-emergence herbicides labeled in Christmas tree that can control

wild carrot, cat's ear. These are not selective herbicides.

Labeled Products: Mission

Comments:

We have documented wild carrot resistance to flazasulfuron in Oregon, and additional modes of

action (halauxifen-benzyl) can help manage the resistance.

New Requests for Herbicides: rimsulfuron

Date of Request:

6/25/2025 4:24:00 PM

Name:

Joseph Neal

Affiliation:

NC State University

State:

NC

ProjectType:

ConductCropSafety

Crop Information:

Herbaceous Flowering Plant - Perennial

Scientific Name: Paeonia Common Name: peony

Plant Stage: established, emerged

UseSite:

field grown cut flowers

TradeName:

several

ActiveIngredients: rimsulfuron

Rate Per Application: 2 to 4 oz prod / A Volume Per Application: 30GPA +/-

Number of Applications: 2

Application Interval: 4 to 6 weeks

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: Two of the largest peony producers in the U.S. are plagued by hedge bindweed. This weed is

Related PRNumbers:

widespread in the US. This registration may open the possibilities of other uses.

Labeled Products: None.

Comments:

We need both crop safety and efficacy data. I have preliminary data. Efficacy: IR-4 Protocol #: 23-018 - rimsulfuron controlled bindweed. Crop Safety data generated in 2025. No significant injury to container grown peony plants from over the top foliar application of rimsulfuron 3 weeks after

sprouting or 6 weeks after sprouting.

New Requests for : glufosinate + quizalofop

Date of Request:

7/24/2025 5:21:00 PM

Name:

Marcelo Moretti

Affiliation:

OSU

State:

OR

ProjectType:

ConductCropSafety

Crop Information:

Deciduous Tree/Shrub/Vine

Scientific Name: ACer sp. Common Name: Maple

Plant Stage: dormant and in season

UseSite:

field grown

TradeName:

Zalo

ActiveIngredients: glufosinate + quizalofop

Rate Per Application: 22 to 43 fl oz/A

Volume Per Application: 20 Number of Applications: 2

Application Interval: 30 days

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: The effects of weed competition in in field grown nursery stock have not been documented to the

Related PRNumbers:

best of my knowledge, but shoot growth is reduced by over 40% in container.

Labeled Products: Zalo Herbicide

Comments:

The premix can help manage clethodim resistance annual bluegrass and Italian ryegrass

R.4

New Requests for : glufosinate + quizalofop

Date of Request:

7/24/2025 5:38:00 PM

Marcelo L Moretti

Affiliation:

Oregon State University

State:

Name:

OR

ProjectType:

ConductEfficacy

Crop Information:

Broadleaf Evergreen/Deciduous Tree/Shrub

Scientific Name: Pseudotsuga menziesii

Common Name: Christmas tree (Douglas fir)

Plant Stage: dormant

UseSite:

field grown

TradeName:

Zalo

ActiveIngredients: glufosinate + quizalofop

Rate Per Application: 22 to 43 fl oz/A

Volume Per Application: 20

Number of Applications: 2

Application Interval: 30 days

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: Weed control improves moisture availability to trees and seedling tree survival. It also improves

Related PRNumbers:

tree quality and plants must be weed free for sale. Limited options area available for

postemergence weed control in Christmas tree. Herbicide resistance in Italian ryegrass and annual

bluegrass reduce viable options.

Labeled Products: fluiazifop, sethoxydim or glufosinate as single active ingredient

New Requests for Herbicides: mesotrione

Date of Request:

8/5/2025 10:39:00 AM

Related PRNumbers:

Name:

Joseph Neal

Affiliation:

NC State University

State:

NC

ProjectType:

ConductCropSafety

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Abies frasieri

Common Name: Fraser fir

Plant Stage: Pre budbreak and about 6 weeks after budbreak

UseSite:

Field

TradeName:

several

ActiveIngredients: mesotrione

Rate Per Application: 3 to 9 oz/A Volume Per Application: see label

Number of Applications: 2

Application Interval: 6 to 8 weeks

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: difficult to determine. Several thousand acres infested with glyphosate resistant lambsquarters.

Labeled Products: none

Comments:

Glyphosate resistant weeds are a growing concern to Christmas tree growers. We have preliminary data on the safety of mesotrione applied at 3 oz/A. Growers have tested it up to 9 oz/A successfully, mesotrione has been effective on lambsquarters and little or no injury to trees. Minor discoloration was temporary and growers accepted. This treatment controlled glyphosate resistant lambsquarters without killing the desirable clover ground cover. Efficacy data on

lambsquarters and other weeds is also desirable.

New Requests for Herbicides: diclosulam

Date of Request:

8/20/2025 4:55:00 PM

Joseph Neal

Affiliation:

NC State University

State:

Name:

NC

ProjectType:

ConductCropSafety

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Abies fraseri

Common Name: Fraser fir

UseSite:

Field grown Christmas tr

TradeName:

Strongarm

ActiveIngredients: diclosulam

Rate Per Application: 0.25 to 0.5 oz/A

Volume Per Application: 15 to 40

Number of Applications: 2

Application Interval: about 6 weeks

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: The need: controlling glyphosate resistant ragweed in Fraser fir production where growers are

Related PRNumbers:

maintaining a living ground cover.

Impacted acres: about 30,000 acres in NC are affected. The alternative, is weed eating, or 2,4-D amine spot treatment with backpack sprayers while shielding the trees. Labor intensive and

expensive.

Labeled Products: none that are safe after budbreak AND safe to the ground cover

Plant Stage: Pre budbreak and about 6 weeks after budbreak

Comments:

An important need for southern Appalachian Fraser fir producers due to the unique growing systems where living ground cover is maintained for erosion control and suppression of most

summer annual weeds.

We have 2 years of data on the safety and efficacy of this product.

New Requests for: Topramezone

Date of Request:

8/21/2025 9:52:00 AM

Name:

Jatinder Aulakh

Affiliation:

Connecticut Agricultural Experiment

State:

CT

ProjectType:

ConductEfficacy

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Abies species, Picea pungens Common Name: Firs, Colarado blue spruce Plant Stage: 4 and 8 weeks after budbreak

UseSite:

Christmas tree plantatio

TradeName:

Frequency

ActiveIngredients: Topramezone

Rate Per Application: 4 and 8 floz/acre Volume Per Application: 20 gallons

Number of Applications: Two Application Interval: 30 days

Research Target:

Efficacy

Efficacy Target:

Horsenettle

Economic Impact: Horsenettle (Solanum carolinense) is being reported as a major weed management challenge by many Christmas tree growers from CT, MA, NY, RI, and VT. Shielded or hooded glyphosate applications have provided inconsistent control and often resulted in Christmas tree injury in the following year due to accidental contact. Frequency is labeled for PRE and POST weed control in Christmas trees but horsenettle is not listed as a weed species controlled or suppressed by

Related PRNumbers:

Frequency herbicide.

Labeled Products: Glyphosate and triclopyr but no selective herbicide is available.

Comments:

Research at Windsor Valley laboratory has shown that frequency has the potential to suppress it at the labelled rate (4 floz/acre/application) while a 2x rate can significantly improve its control without injury to most true firs, spruces, and white pine 4 weeks after budbreak or before lammas

growth.

New Requests for : Ammoniated soap, caprylic acid, halosulfuron, SP1190, SP710

Related PRNumbers:

Date of Request:

8/25/2025 3:18:00 PM

Name:

Debalina Saha

Affiliation:

Michigan State University

State:

MI

ProjectType:

ConductEfficacy

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Abies frasieri

Common Name: Fraser fir Plant Stage: After budbreak

UseSite:

Field

TradeName:

Finalsan, Homeplate, SedgeHammer, SP1190, SP7105

ActiveIngredients: Ammoniated soap, caprylic acid, halosulfuron, SP1190, SP7105

Rate Per Application: 10-16 gal/100gal, 6-9 gal/100gal, 10-20 fl oz/ac, 16-32 fl oz/ac, 24-48 fl

Volume Per Application: See label

Number of Applications: 2 applications

Application Interval:

Research Target:

Efficacy

Efficacy Target:

Equisetum (Field Horsetail)

Economic Impact:

In the US, Christmas tree production is \$250 million in sales per year and encompasses nearly 350,000 acres in production. Michigan is the third-largest producer in the nation. Equisetum (field horsetail) is a persistent tough weed issue among the Christmas tree growers, especially in the North Central region. There is no labeled herbicide available currently for Equisetum control in

Christmas trees.

Labeled Products: None

Comments:

I have conducted the 2025 North central regional equisetum efficacy trial with Finalsan,

Homeplate, Sedgehammer, SP1190, SP7105 and have first-year data (Protocol# 25-021). The first year results are very promising and there is a need to repeat this efficacy trial in the coming 2026-

27 year.

New Requests for : glufosinate + quizalofop

Date of Request:

8/25/2025 3:39:00 PM

Michigan State University

Debalina Saha

Affiliation:

State:

Name:

MI

ProjectType:

ConductCropSafety

Crop Information:

Narrowleaf Evergreen Tree/Shrub

Scientific Name: Abies frasieri

Common Name: Fraser fir (Christmas tree)

Plant Stage: Dormant

UseSite:

Field

TradeName:

Zalo

ActiveIngredients: glufosinate + quizalofop

Rate Per Application: 22 to 43 fl oz/A

Volume Per Application: 20

Number of Applications: 2

Application Interval: Before budbreak and around 6 weeks after budbreak

Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: Christmas trees are grown on over 15,000 farms in U.S., covering 350,000 acres and generating \$250 million in sales. Weed control is extremely important as there can be severe competition between the weeds and the tree during the establishment phase and also in the later stage, weeds can interfere with the tree pruning, shearing, spraying (management practices). In Christmas tree production, there are very limited postemergence herbicides available.

Related PRNumbers:

Labeled Products:

glufosinate, fluazifop, sethoxydim as singular active ingredient

Comments:

I have conducted a trial with Zalo for weed control efficacy in apple production and have generated very good results especially when Zalo has been combined with other preemergence herbicides. I think Zalo can be a good potential postemergence herbicide even for the ornamental

(Christmas) trees in addition to fruit trees.

New Requests for: various

Date of Request:

9/2/2025 5:13:00 PM

Related PRNumbers:

Name:

Jeffrey Derr

Affiliation:

Virginia Tech

State:

VA

ProjectType:

ConductCropSafety

Crop Information:

Broadleaf Evergreen/Deciduous Tree/Shrub

Scientific Name: H. macrophylla, arborescens, paniculata, quercifolia

Common Name: Hydrangea Plant Stage: active growth

UseSite:

container

TradeName:

Fortress, Gemini, Biathlon, Fuerte, FreeHand, Snapshot, Barricade

ActiveIngredients: various

Rate Per Application: as per label

Volume Per Application: most are granular, around 25 gal/A for sprays

Number of Applications: 2

Application Interval: 6 weeks Research Target:

Phytotoxicity

Efficacy Target:

Economic Impact: Hydrangea is a key nursery species. Need to determine tolerance across the 4 major species of

hydrangea

Labeled Products: Very limited, some labeled for H. macrophylla only

New Requests for: any

Date of Request:

9/9/2025 1:41:00 PM

Name:

Manjot Sidhu

Affiliation:

Assistant Professor & Ornamental H

State:

ME

ProjectType:

ConductEfficacy

Crop Information:

Herbaceous Flowering Plant - Annual/Biennial/Peren

Scientific Name: nursery crops/garden Common Name: nursery crops/garden

Plant Stage: any

UseSite:

Greenhouse/ nursery

TradeName:

any

ActiveIngredients: any

Rate Per Application: any

Volume Per Application: any

Number of Applications: any

Application Interval:

Research Target:

Efficacy

Efficacy Target:

Horsetail

Economic Impact: In Maine's ornamental horticulture, horsetail's economic impact is overwhelmingly negative due

Related PRNumbers:

to its aggressive, hard-to-eradicate growth, which causes increased costs for nurseries and

gardeners.

Labeled Products:

IR4

New Requests for: any

Date of Request:

9/9/2025 1:43:00 PM

Manjot Sidhu

Affiliation:

Assistant Professor & Ornamental H

State:

Name:

ME

ProjectType:

ConductEfficacy

Crop Information:

Herbaceous Flowering Plant - Annual/Biennial/Peren

Scientific Name: Greenhouse ornamentals Common Name: Greenhouse ornamentals

Plant Stage: any

UseSite:

INSIDE the Greenhouse

TradeName:

any

ActiveIngredients: any

Rate Per Application: any

Volume Per Application: any

Number of Applications: any

Application Interval:

Research Target:

Efficacy

Efficacy Target:

Algae/ Liverwort/ Moss

Economic Impact: Algae, liverwort, and moss act as weeds in Maine's ornamental horticulture, causing economic

Related PRNumbers:

damage through direct crop harm and increased production costs.

Labeled Products: