IR-4

New Requests for : potasium silicate

Date of Request:	8/12/2025 2:02:00 PM	**Related PRNumbers:**
Name:	Stepanie Goesmann	
Affiliation:	Alexaner Hay	
State:	FL	
ProjectType:	UpdateLabel	
Crop Information:	Herbaceous Flowering Plant	
	Scientific Name: *Lilium longiflorum*	
	Common Name: Easter lilies	
	Plant Stage: any time after potting	
UseSite:	greenhouse	
TradeName:	sil-matrix	
ActiveIngredients:	potasium silicate	
Rate Per Application:	7oz/100	
Volume Per Application:	100~ ft^2 for 200~ plants involved in trial	
Number of Applications:	1-3	
Application Interval:	once weekly	
Research Target:	Efficacy	
Efficacy Target:	Boron toxicity	
Economic Impact:	using potassium silicate can greatly reduce the effect of boron toxicity in easter lilies. this can be used by smaller greenhouses to increase their yield of saleable easter lilies	
Labeled Products:	none	
Comments:	trial was preformed early 2025 based on other research using potassium silicate to negate boron toxicity. spread of boron toxicity was halted after initial treatment, though I did 4 separate treatments to see if there was phytotoxicity, and none was found. Trial reports to be printed in GPN in either oct or feb.	

IR-4

New Requests for : ethaboxam

Date of Request: 8/21/2025 12:44:00 PM

Related PRNumbers:

Name: Inga Meadows

Affiliation: NC State University

State: NC

ProjectType: ConductCropSafety

Crop Information: Herbaceous Flowering Plant

Scientific Name: *various*

Common Name: various

Plant Stage: transplant and mature

UseSite: greenhouse and nursery

TradeName: Elumin

ActiveIngredients: ethaboxam

Rate Per Application: 8 fl oz/acre

Volume Per Application: 20-100gal

Number of Applications: ?

Application Interval: ?

Research Target: Efficacy

Efficacy Target: phytophthora, pythium

Economic Impact: Phytophthora and Pythium continue to cause losses. In NC, growers estimate about 5 to 10% crop loss due to this disease, and sometimes more.

Labeled Products: unsure

Comments: Ethaboxam is registered for fruiting vegetables for downy mildew and phytophthora. Perhaps it can have some efficacy in greenhouse and nursery ornamentals.

IR-4

New Requests for : Fluopyram & Trifloxystrobin

Date of Request:	8/27/2025 3:11:00 PM
Related PRNumbers:	
Name:	William Crow
Affiliation:	University of Florida
State:	FL
ProjectType:	ConductEfficacy
Crop Information:	Herbaceous Flowering Plant
	Scientific Name: *Chysanthemum spp.*
	Common Name: Chysanthemum
	Plant Stage: Established
UseSite:	greenhouse, nursery fiel
TradeName:	Broadform
ActiveIngredients:	Fluopyram & Trifloxystrobin
Rate Per Application:	4-8 ounces/100 gal
Volume Per Application:	until drip
Number of Applications:	3
Application Interval:	14 days
Research Target:	Efficacy
Efficacy Target:	Aphelenchiodes spp.
Economic Impact:	Foliar nematodes are in increasing problem in Florida nurseries and landscapes, particularly on asters and ferns. Infection causes leaf spots that make plants unmarketable.
Labeled Products:	chlorfenapyr (Pylon)
Comments:	Pylon can only be used in enclosed nurseries due to avian toxicity. Broadform is labeled for outdoor use and has no known avian effects.

IR-4

New Requests for Insecticides: Spirotetramat

Date of Request:	8/27/2025 3:31:00 PM
Related PRNumbers:	
Name:	William Crow
Affiliation:	University of Florida
State:	FL
ProjectType:	ConductEfficacy
Crop Information:	Herbaceous Flowering Plant
	Scientific Name: *Chysanthemum spp.*
	Common Name: Chysanthemum
	Plant Stage: Established
UseSite:	greenhouse, nursery fiel
TradeName:	Kontos
ActiveIngredients:	Spirotetramat
Rate Per Application:	1.7-3.4 ounces/100 gal
Volume Per Application:	until drip
Number of Applications:	3
Application Interval:	14 days
Research Target:	
Efficacy Target:	Aphelenchiodes spp.
Economic Impact:	Infection by foliar nematodes is increasing in Florida nurseries and landscapes, particularly on asters and ferns. Foliar nematodes cause leafspots that make infected plants unmarketable
Labeled Products:	chlorfenapyr (Pylon)
Comments:	Pylon can only be used in enclosed nurseries due to avian effects, However, Kontos can be used outdoors and is not known to have avian effects.

IR-4

New Requests for : cyclobutrifluram

Date of Request:	8/27/2025 3:45:00 PM	**Related PRNumbers:**	
Name:	William Crow		
Affiliation:	University of Florida		
State:	FL		
ProjectType:	ConductEfficacy		
Crop Information:	Herbaceous Flowering Plant - Annual		
	Scientific Name: *Coleus spp.*		
	Common Name: Coleus		
	Plant Stage: Preplant		
UseSite:	greenhouse, nursery fiel		
TradeName:	Trefinti		
ActiveIngredients:	cyclobutrifluram		
Rate Per Application:	1.5-6.4fl ounces/100 gal		
Volume Per Application:	1-2 pints/ ft2		
Number of Applications:	1		
Application Interval:	NA		
Research Target:			
Efficacy Target:	Meloidogyne spp.		
Economic Impact:	Root-knot nematodes are among the most common soilborne pests/pathogens on annual bedding plants in Florida. Root-knot nematode infestation leads to wilting and stunting, and constant replacement of infected plants.		
Labeled Products:	Several biologicals but to chemical pesticides.		
Comments:	None of the labeled biologicals have been found to be effective against root-knot nematode on bedding plants.		

IR-4

New Requests for : cyclobutrifluram

Date of Request:	8/27/2025 3:52:00 PM	**Related PRNumbers:**
Name:	William Crow	
Affiliation:	University of Florida	
State:	FL	
ProjectType:	ConductEfficacy	
Crop Information:	Herbaceous Flowering Plant	
	Scientific Name: *Chrysanthemum spp.*	
	Common Name: Chrysanthemum	
	Plant Stage: established	
UseSite:	greenhouse, nursery fiel	
TradeName:	Trefinti	
ActiveIngredients:	cyclobutrifluram	
Rate Per Application:	1.5-6.4fl ounces/100 gal	
Volume Per Application:	1-2 pints/ ft2	
Number of Applications:	1	
Application Interval:	NA	
Research Target:		
Efficacy Target:	Aphelenchoides spp.	
Economic Impact:	Foliar nematodes are increasing in importance in Florida nurseries and landscapes, particularly on asters and ferns. Infection by foliar nematodes causes leaf spots that make plants unmarketable.	
Labeled Products:	chlorfenapyr (Pylon)	
Comments:	Pylon can only be used in enclosed nurseries due to avian effects. Trefinti is not known to have avian effects. Since it has acropetal movement it could be applied to soil and translocated to leaves and control foliar nematodes.	

IR-4

New Requests for : Fluazaindolazine

Date of Request: 8/27/2025 4:14:00 PM

Related PRNumbers:

Name: William Crow

Affiliation: University of Florida

State: FL

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant - Annual

Scientific Name: *Antirrhinum spp.*

Common Name: Snapdragon

Plant Stage: Pre and post plant

UseSite: Cut flower production

TradeName: Salibro

ActiveIngredients: Fluazaindolazine

Rate Per Application: 30.7-61.4 fl oz/acre

Volume Per Application: Drip injection to deliver 30.7-61.4 fl oz/acre

Number of Applications: 2-4

Application Interval: 2-4 week

Research Target:

Efficacy Target: Meloidogyne spp.

Economic Impact: Root-knot nematodes stunt plants and decrease yield quantity and quality of snapdragon

Labeled Products: Fumigants

Comments: There are no effective non-fumigant treatments for root-knot nematode management for cut flower production.

IR-4 **New Requests for : Fluazaindolazine**

Date of Request:	8/27/2025 4:23:00 PM
Related PRNumbers:	
Name:	William Crow
Affiliation:	University of Florida
State:	FL
ProjectType:	ConductEfficacy
Crop Information:	Broadleaf Evergreen Tree/Shrub
	Scientific Name: *Pittosporum spp.*
	Common Name: Pittosporum
	Plant Stage: Post plant
UseSite:	Cut foliage production p
TradeName:	Salibro
ActiveIngredients:	Fluazaindolazine
Rate Per Application:	61.4 fl oz/acre
Volume Per Application:	Chemigation to deliver 30.7-61.4 fl oz/acre
Number of Applications:	2 annually
Application Interval:	4-6 months
Research Target:	
Efficacy Target:	Meloidogyne spp.
Economic Impact:	Root-knot nematodes stunt plants and reduce growth, thereby slowing and preventing yield. Infested fields are either abandoned or planted to less valuable crops.
Labeled Products:	None
Comments:	Florida produces around 90% of cut foliage in the USA and root-knot nematode is the primary soilborne pest on variegated pittosporum, their most high-value crop. Since the deregistration of fenamiphos, cut foliage growers in Florida have no effective treatment options.

IR-4

New Requests for : Fluensulphone

Date of Request:	8/27/2025 4:34:00 PM	**Related PRNumbers:**
Name:	William Crow	
Affiliation:	University of Florida	
State:	FL	
ProjectType:		
Crop Information:	Broadleaf Evergreen/Deciduous Tree/Shrub	
	Scientific Name: *Pittosporum spp.*	
	Common Name: Pittosporum	
	Plant Stage: Post plant	
UseSite:	Cut foliage production p	
TradeName:	Nimitz	
ActiveIngredients:	Fluensulphone	
Rate Per Application:	3.5-7.0 fl oz/acre	
Volume Per Application:	Chemigation to deliver 3.5-7.0 fl oz/acre	
Number of Applications:	2 annually	
Application Interval:	4-6 months	
Research Target:		
Efficacy Target:	Meloidogyne spp.	
Economic Impact:	Root-knot nematodes are the major soilborne pest of variegated pittosporam, the highest-value cut foliage crop in Florida	
Labeled Products:	None	
Comments:	Since the deregistration of fenamiphos cut foliage growers in Florida have had no effective treatments for root-knot nematodes.	

IR-4

New Requests for : Fluopyram

Date of Request: 8/27/2025 4:38:00 PM

Related PRNumbers:

Name: William Crow

Affiliation: University of Florida

State: FL

ProjectType:

Crop Information: Broadleaf Evergreen/Deciduous Tree/Shrub

Scientific Name: *Pittosporum spp.*

Common Name: Pittosporum

Plant Stage: Post plant

UseSite: Cut foliage production p

TradeName: Velum

ActiveIngredients: Fluopyram

Rate Per Application: 13.7 fl oz/acre

Volume Per Application: Chemigation to deliver 13.7 fl oz/acre

Number of Applications: 2 annually

Application Interval: 4-6 months

Research Target:

Efficacy Target: Meloidogyne spp.

Economic Impact: Root-knot nematodes stunt plants and reduce growth, thereby slowing and preventing yield. Infested fields are either abandoned or planted to less valuable crops.

Labeled Products: None

Comments: Florida produces around 90% of cut foliage in the USA and root-knot nematode is the primary soilborne pest on variegated pittosporum, their most high-value crop. Since the deregistration of fenamiphos, cut foliage growers in Florida have no effective treatment options.

IR-4

New Requests for : cyclobutrifluram

Date of Request: 8/27/2025 4:41:00 PM

Related PRNumbers:

Name: William Crow

Affiliation: University of Florida

State: FL

ProjectType:

Crop Information: Broadleaf Evergreen/Deciduous Tree/Shrub

Scientific Name: *Pittosporum spp.*

Common Name: Pittosporum

Plant Stage: Post plant

UseSite: Cut foliage production p

TradeName: Trefinti

ActiveIngredients: cyclobutrifluram

Rate Per Application: 6.4 fl oz/acre

Volume Per Application: Chemigation to deliver 6.4 fl oz/acre

Number of Applications: 2 annually

Application Interval: 4-6 months

Research Target:

Efficacy Target: Meloidogyne spp.

Economic Impact: Root-knot nematodes stunt plants and reduce growth, thereby slowing and preventing yield. Infested fields are either abandoned or planted to less valuable crops.

Labeled Products: None

Comments: Florida produces around 90% of cut foliage in the USA and root-knot nematode is the primary soilborne pest on variegated pittosporum, their most high-value crop. Since the deregistration of fenamiphos, cut foliage growers in Florida have no effective treatment options.

IR-4

New Requests for : cyclobutrifluram

Date of Request: 8/28/2025 1:58:00 PM

Related PRNumbers:

Name: William Crow

Affiliation: University of Florida

State: FL

ProjectType:

Crop Information: Herbaceous Flowering Plant - Annual

Scientific Name: *Antirrhinum spp.*

Common Name: Snapdragon

Plant Stage: Pre and post plant

UseSite: Cut flower production p

TradeName: Trefinti

ActiveIngredients: cyclobutrifluram

Rate Per Application: 6.4 fl oz/acre

Volume Per Application: Chemigation to deliver 6.4 fl oz/acre

Number of Applications: 2 annually

Application Interval: 4-6 months

Research Target:

Efficacy Target: Meloidogyne spp.

Economic Impact: Root-knot nematodes reduce yield quantity and quality of cut flower crops in Florida. Currently there are no effective non-fumigant nematode management options and no post-lant options for cut flower production

Labeled Products: Preplant fumigants

Comments: Trefinti has potentially less environmental impact than fumigants and can be applied both pre and post plant.

IR-4

New Requests for : any

Date of Request: 9/9/2025 1:37:00 PM

Related PRNumbers:

Name: Manjot Sidhu

Affiliation: Assistant Professor & Ornamental H

State: ME

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant

Scientific Name: *Ornamentals*

Common Name: Basil, Impatiens, verbena

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: Downy mildew

Economic Impact: Downy mildew has inflicted significant economic damage on Maine's ornamental horticulture industry, particularly through severe outbreaks of impatiens downy mildew (IDM). The impact is felt through lost revenue from destroyed crops, added management costs, and shifts in consumer demand away from susceptible plants

Labeled Products:

Comments:

IR-4

New Requests for : any

Date of Request: 9/9/2025 1:38:00 PM

Related PRNumbers:

Name: Manjot Sidhu

Affiliation: Assistant Professor & Ornamental H

State: ME

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant - Perennial

Scientific Name: *Ornamentals*

Common Name: Delphinium, verbena

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: Powdery mildew

Economic Impact:

Labeled Products:

Comments:

IR-4

New Requests for : Azoxystrobin 22.9%

Date of Request: 9/15/2025 6:53:00 PM **Related PRNumbers:**

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductEfficacy

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Quadris Flowable Fungicide

ActiveIngredients: Azoxystrobin 22.9%

Rate Per Application: 15.5 fl oz./acre

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Delphinella shoot blight

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Delphinella shoot blight occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing current season needle necrosis and shoot dieback. Severely infection leads to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Delphinella shoot blight but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide additional options for resistance management in Delphinella sp. causing Delphinella shoot blight.

IR-4

New Requests for : Oxathiapiprolin

Date of Request:	9/15/2025 6:18:00 PM	**Related PRNumbers:**	
Name:	Marianne Elliott		
Affiliation:	Washington State University		
State:	WA		
ProjectType:	ConductCropSafety		
Crop Information:	Narrowleaf Evergreen Tree/Shrub		
	Scientific Name: *Abies spp.*		
	Common Name: Christmas trees		
	Plant Stage: pre-budbreak and/or during growing season		
UseSite:	Field grown Christmas tr		
TradeName:	Segovis		
ActiveIngredients:	Oxathiapiprolin		
Rate Per Application:	1.2-9.15 fl. oz/25 gal		
Volume Per Application:	19.3 fl. oz/acre		
Number of Applications:	1 or 2		
Application Interval:	one application in spring or fall		
Research Target:	Efficacy		
Efficacy Target:	Phytophthora root and crown rot		
Economic Impact:	Phytophthora root disease is increasing due to climate conditions and causes major losses in Christmas tree production in Oregon and Washington. An effective fungicide treatment would be a valuable tool for managing this disease.		
Labeled Products:	Adorn (Fluopicolide), Subdue Maxx (mefenoxam), Sparra (mono- and di-potassium salts of phosph		
Comments:	Preliminary results of a field trial indicate that Segovis (oxathiapiprolin) has the potential to control Phytophthora root rot when it is applied in the spring prior to infections.		

IR-4

New Requests for : Azoxystrobin 4.6%; Chlorothalonil 46.0%

Date of Request: 9/15/2025 6:40:00 PM

Related PRNumbers:

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductEfficacy

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Quadris Opti

ActiveIngredients: Azoxystrobin 4.6%; Chlorothalonil 46.0%

Rate Per Application: 3.2 pints/A

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Lirula needlecast

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Lirula needle cast disease occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing severe needle loss leading to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Lirula needlecast but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide more options for resistance management in Lirula spp. causing Lirula needlecast disease.

IR-4

New Requests for : Azoxystrobin 22.9%

Date of Request: 9/15/2025 9:05:00 PM

Related PRNumbers:

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductEfficacy

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Quadris Flowable Fungicide

ActiveIngredients: Azoxystrobin 22.9%

Rate Per Application: 15.5 fl oz./acre

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Lirula needlecast

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Lirula needle cast disease occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing severe needle loss leading to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Lirula needlecast but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide more options for resistance management in Lirula spp. causing Lirula needlecast disease.

IR-4

New Requests for : Azoxystrobin 22.9%

Date of Request: 9/15/2025 9:08:00 PM

Related PRNumbers:

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductEfficacy

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Quadris Flowable Fungicide

ActiveIngredients: Azoxystrobin 22.9%

Rate Per Application: 15.5 fl oz./acre

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Delphinella shoot blight

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Delphinella shoot blight occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing current season needle necrosis and shoot dieback. Severely infection leads to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Delphinella shoot blight but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide additional options for resistance management in Delphinella sp. causing Delphinella shoot blight.

IR-4

New Requests for : Triadimefon 41.67%, Trifloxystrobin 8.33%

Date of Request: 9/15/2025 9:36:00 PM **Related PRNumbers:**

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductEfficacy

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Armada 50 WG

ActiveIngredients: Triadimefon 41.67%, Trifloxystrobin 8.33%

Rate Per Application: 9 oz/acre

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Lirula needlecast

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Lirula needle cast disease occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing severe needle loss leading to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Lirula needlecast but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide more options for resistance management in Lirula spp. causing Lirula needlecast disease.

IR-4 **New Requests for : Trifloxystrobin 42.6%**

Date of Request:	9/15/2025 9:29:00 PM
Related PRNumbers:	
Name:	Brett Johnson
Affiliation:	University of Maine Cooperative Ext
State:	ME
ProjectType:	ConductEfficacy
Crop Information:	Broadleaf Evergreen Tree/Shrub
	Scientific Name: *Abies balsamea*
	Common Name: Balsam fir
	Plant Stage: Active growth
UseSite:	Christmas trees, Nurser
TradeName:	Armada 50 WG
ActiveIngredients:	Trifloxystrobin 42.6%
Rate Per Application:	9 oz/acre
Volume Per Application:	100 gal/acre
Number of Applications:	3
Application Interval:	14 day intervals
Research Target:	Efficacy
Efficacy Target:	Delphinella shoot blight
Economic Impact:	Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Delphinella shoot blight occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing current season needle necrosis and shoot dieback. Severely infection leads to reduced grade or culling of trees.
Labeled Products:	
Comments:	Many products registered for use in christmas tree plantations are recommended for control of Delphinella shoot blight but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide additional options for resistance management in Delphinella sp. causing Delphinella shoot blight.

IR-4

New Requests for : Azoxystrobin 4.6%; Chlorothalonil 46.0%

Date of Request: 9/11/2025 4:30:00 PM **Related PRNumbers:**

Name: Brett Johnson

Affiliation: University of Maine Cooperative Ext

State: ME

ProjectType: ConductCropSafety

Crop Information: Broadleaf Evergreen Tree/Shrub

Scientific Name: *Abies balsamea*

Common Name: Balsam fir

Plant Stage: Active growth

UseSite: Christmas trees, Nurser

TradeName: Quadris Opti

ActiveIngredients: Azoxystrobin 4.6%; Chlorothalonil 46.0%

Rate Per Application: 3.2 pints/A

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 21 day interval

Research Target: Efficacy

Efficacy Target: Delphinella shoot blight

Economic Impact: Maine is home to at least 238 farms producing Christmas trees and other short rotation woody crops according to the 2022 Census of Agriculture. The Christmas tree and wreath industry is estimated to generate an excess of $18 million in direct economic impact in Maine and provide nearly 800 jobs. Delphinella shoot blight occurs commonly on balsam and Fraser fir Christmas tree's in Maine, causing current season needle necrosis and shoot dieback. Severely infection leads to reduced grade or culling of trees.

Labeled Products:

Comments: Many products registered for use in christmas tree plantations are recommended for control of Delphinella shoot blight but labels do not currently include the disease. Examples include Echo 90 DF (Chlorothalonil 90%)and Dithane F-45 (Mancozeb 37%). These active ingredients listed previous are protectants. By contrast, Azoxystrobin employs a different mode of action to prevent disease. Adding Christmas tree plantations to use site would provide more options for resistance management in Delphinella sp. causing Delphinella shoot blight.