IR-4

New Requests for : Sheep fat

Date of Request:	4/14/2025 2:30:00 PM	**Related PRNumbers:**
Name:	MacKenzie Patton	
Affiliation:	UCCE	
State:	CA	
ProjectType:	ConductEfficacy	
Crop Information:	Deciduous Tree/Shrub/Vine	
	Scientific Name: *Pseudotsuga menziesii, Abies spp.*	
	Common Name: Douglas Fir, and firs for Christmas trees	
	Plant Stage: seedling	
UseSite:	nursery field	
TradeName:	Trico Pro	
ActiveIngredients:	Sheep fat	
Rate Per Application:	0.13 fl. oz./plant	
Volume Per Application:	Apply 1.1-2.2 gal./acre	
Number of Applications:	2	
Application Interval:	Minimum 28 days	
Research Target:	Efficacy	
Efficacy Target:	Deer repellant	
Economic Impact:	Would help Christmas tree growers with deer issues in the foothills.	
Labeled Products:	Deer Ban, Deer Scram, others	
Comments:	All existing products are oils, dried blood, coyote urine.	

IR-4

New Requests for : 50% Thiophanate-methyl fungicide

Date of Request: 4/29/2025 11:07:00 AM **Related PRNumbers:**

Name: vera krischik

Affiliation: university of minnesota

State: MN

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant

Scientific Name: *Hosta*

Common Name: Hosta

Plant Stage: containers

UseSite: greenhouse, nursery co

TradeName: OHP 6672

ActiveIngredients: 50% Thiophanate-methyl fungicide

Rate Per Application: 40 to 80 fluid ounces per 100 gallon

Volume Per Application: Use 8 to 16 oz. of OHP 6672 50 WP per 100 gallons

Number of Applications: 3

Application Interval: Apply every 7-14 days for up to 10 weeks.

Research Target: Efficacy

Efficacy Target: jumping worms

Economic Impact: Jumping worms are native to Asia (JW; Amynthas and Metaphire spp., Family Megascolecidae, Phylum Annelida) and are an invasive, exotic species that pose a serious threat to plant roots. JW live in the top few inches of the soil in forested areas where they consume the leaf litter and organic matter that is critical for the germination and nutrition of forest plants. Green industry commodities, including container stock, compost, and landscape mulch are known pathways for the spread of JW into natural ecosystems. The proposed research will focus on IPM strategies for managing JW.

Labeled Products: none

Comments: The research methods will be developed in consultation with the USDA IR4 program, so data can be collected that can support adding JW to the labels of existing pesticides (such as nematicide labels based on soapbark saponiins) or pyrethroids.

IR-4

New Requests for : 8.60% Saponins of Quillaja saponaria

Date of Request: 4/29/2025 11:03:00 AM

Related PRNumbers:

Name: vera krischik

Affiliation: university of minnesota

State: MN

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant

Scientific Name: *Hosta*

Common Name: Hosta

Plant Stage: containers

UseSite: greenhouse, nursery co

TradeName: Monterey nematode control

ActiveIngredients: 8.60% Saponins of Quillaja saponaria

Rate Per Application: 8 floz/6gal/ 1000sqft

Volume Per Application: 0.013 floz/gal/sqft for 3gal pot

Number of Applications: 3

Application Interval: Apply every 7-14 days for up to 10 weeks.

Research Target: Efficacy

Efficacy Target: jumping worms

Economic Impact: Jumping worms are native to Asia (JW; Amynthas and Metaphire spp., Family Megascolecidae, Phylum Annelida) and are an invasive, exotic species that pose a serious threat to plant roots. JW live in the top few inches of the soil in forested areas where they consume the leaf litter and organic matter that is critical for the germination and nutrition of forest plants. Green industry commodities, including container stock, compost, and landscape mulch are known pathways for the spread of JW into natural ecosystems. The proposed research will focus on IPM strategies for managing JW.

Labeled Products: none

Comments: The goal of this research is to develop effective site specific IPM strategies for nursery commodities, landscapes, parks, and mulch piles for managing JW and reducing their spread into natural areas. The research methods will be developed in consultation with the USDA IR4 program, so data can be collected that can support adding JW to the labels of existing pesticides (such as nematicide labels based on soapbark saponiins) or pyrethroids.

IR-4

New Requests for : Bifenthrin Nursery 7.9F

Date of Request: 4/29/2025 11:06:00 AM

Related PRNumbers:

Name: vera krischik

Affiliation: university of minnesota

State: MN

ProjectType: ConductEfficacy

Crop Information: Herbaceous Flowering Plant

Scientific Name: *Hosta*

Common Name: Hosta

Plant Stage: containers

UseSite: greenhouse, nursery co

TradeName: Quali-Pro Bifenthrin Nursery 7.9F

ActiveIngredients: Bifenthrin Nursery 7.9F

Rate Per Application: 40 to 80 fluid ounces per 100 gallon

Volume Per Application: 0.8 floz/gal

Number of Applications: 3

Application Interval: Apply every 7-14 days for up to 10 weeks.

Research Target: Efficacy

Efficacy Target: jumping worms

Economic Impact: Jumping worms are native to Asia (JW; Amynthas and Metaphire spp., Family Megascolecidae, Phylum Annelida) and are an invasive, exotic species that pose a serious threat to plant roots. JW live in the top few inches of the soil in forested areas where they consume the leaf litter and organic matter that is critical for the germination and nutrition of forest plants. Green industry commodities, including container stock, compost, and landscape mulch are known pathways for the spread of JW into natural ecosystems. The proposed research will focus on IPM strategies for managing JW.

Labeled Products: none

Comments: The research methods will be developed in consultation with the USDA IR4 program, so data can be collected that can support adding JW to the labels of existing pesticides (such as nematicide labels based on soapbark saponiins) or pyrethroids.

IR-4

New Requests for : any

Date of Request:	8/6/2025 2:46:00 PM	**Related PRNumbers:**	
Name:	Wm. Kyle Natorp		
Affiliation:	Natorp's Inc / Wm. A. Natorp Comp		
State:	OH		
ProjectType:	ConductEfficacy		
Crop Information:	Broadleaf Evergreen/Deciduous Tree/Shrub		
	Scientific Name: *Buxus*		
	Common Name: Boxwood		
	Plant Stage: all		
UseSite:	nursery, residence, cons		
TradeName:	any systemic		
ActiveIngredients:	any		
Rate Per Application:	any		
Volume Per Application:	any		
Number of Applications:	any		
Application Interval:	any		
Research Target:			
Efficacy Target:			
Economic Impact:	total elimination of boxwood from the North American landscape		
Labeled Products:	none that I know of		
Comments:	Box Tree Moth is systematically destroying boxwoods in the landcsape. The only remedies for homeowners are contact sprays that must be applied many times a season to control the pest which is not feasible. We need a systemic insecticide that can be applied once per season if there is any chance of controlling this pest.		

IR-4

New Requests for Insecticides: abamectin

Date of Request: 8/6/2025 4:03:00 PM **Related PRNumbers:**

Name: Nate Jameson

Affiliation: Brite Leaf Citrus Nursery

State: FL

ProjectType: UpdateLabel

Crop Information: Broadleaf Evergreen/Deciduous Tree/Shrub

Scientific Name: *Citrus X sinensis, limon, paradisi, aurantiifolia, reticulata*

Common Name: Citrus Nursery Trees

Plant Stage: tree propagation

UseSite: Greenhouse

TradeName: Agrimec, Avid and many others.

ActiveIngredients: abamectin

Rate Per Application: 4oz/100gallons

Volume Per Application: 100 gallons/acre

Number of Applications: 3

Application Interval: 90 days

Research Target:

Efficacy Target:

Economic Impact: Abamectin is specifically prohibited for use in citrus nurseries based on the idea that use in citrus nurseries increases mite resistance. The challenge with this belief is the mite being controlled in citrus nurseries (Two spot, Broad and Red citrus mites) are not the same mites abamectin is being used to control in orchards. (primarily rust mites)

Labeled Products: None labeled for citrus nurseries, many labeled for ornamental nurseries.

Comments: I cannot find any scientific reason abamectin should not be allowed for use in citrus nurseries in rotation with other groups of miticides. I am requesting abamectin be relabeled to allow limited use in citrus nursery production. Citrus nursery production in the US is now all inside fully enclosed protected culture systems. Exposure too outside environs is extremely limited and resistance build up is not a concern for field production.

IR-4

New Requests for : chlorantraniliprole

Date of Request:	8/14/2025 2:32:00 PM	**Related PRNumbers:**
Name:	Jean-Marc Versolato	
Affiliation:	Bailey Nursery	
State:	MN	
ProjectType:	ConductEfficacy	
Crop Information:	Deciduous Tree/Shrub/Vine	
	Scientific Name: *all*	
	Common Name: all	
	Plant Stage: Potted liners or bare root liners	
UseSite:	nursery container - 2 gal	
TradeName:	Acelepryn G	
ActiveIngredients:	chlorantraniliprole	
Rate Per Application:	TBD	
Volume Per Application:	unknown	
Number of Applications:	1 application, incorporation at planting	
Application Interval:		
Research Target:	Efficacy	
Efficacy Target:	To control Japanese beetle grubs and flea beetles larva	
Economic Impact:	Can Acelepryn G be used to control grubs in containers? Neonics have a bad reputation, we do not really want to use them. We incorporate Bifenthrin in our mix to control Japanese beetle, but it does not control flea beetle larva at all.	
Labeled Products:		
Comments:	Controlling flea beetle adults requires weekly foliar treatments, all season long, and we still get plant damage from the adults feeding on the foliage. Incorporating insecticide is the best option, providing nearly 100% control when using a granular neonic.	

IR-4

New Requests for : Geraniol, Sodium Lauryl Sulfate, Clove oil, Cornmint oil

Date of Request: 8/29/2025 11:54:00 AM **Related PRNumbers:**

Name: Troy Whitfield

Affiliation: Audubon Aquarium

State: LA

ProjectType: ConductEfficacy

Crop Information: Tropical Foliage Plant

Scientific Name: *Heliconia rostrata*

Common Name: Lobster Claw

Plant Stage: All stages

UseSite: Planted indoor gallery

TradeName: Essentria IC Pro

ActiveIngredients: Geraniol, Sodium Lauryl Sulfate, Clove oil, Cornmint oil

Rate Per Application: 2oz/1gal

Volume Per Application: 1gal/1000sq ft

Number of Applications: 1

Application Interval: 1 per month

Research Target: Efficacy

Efficacy Target: Spiraling Whitefly, Aleurodicus dispersus

Economic Impact: Potentially high. In my gallery, spiraling whitefly has shown a moderate adaptability to spread and infest a variety of tropical plants. It has been particularly damaging to Heliconia, Banana, Alocasia, Breadfruit, Mango, Guava, and Pothos.

Labeled Products: Unknown

Comments: I'm in need of control measures that can be safely used inside an aviary. Currently I've been limited to Essentria IC Pro and beneficial insects.

IR-4

New Requests for : any

Date of Request:	9/9/2025 1:31:00 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: Ornamentals		
	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:	Jumping worms		
Economic Impact:	The voracious consumption of organic matter and rapid alteration of soil structure by jumping worms directly harm potted plants in nurseries and greenhouses, increase costs for growers, and affect landscape plantings		
Labeled Products:	None yet		
Comments:			

IR-4

New Requests for : any

Date of Request:	9/9/2025 1:34:00 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: Ornamentals	
	Plant Stage: any	
UseSite:	Greenhouse/ nursery	
TradeName:	any (Chemical pesticide/ Biological control)	
ActiveIngredients:	any	
Rate Per Application:	any	
Volume Per Application:	any	
Number of Applications:	any	
Application Interval:		
Research Target:	Efficacy	
Efficacy Target:	Japanese beetle, flea beetle, thrips	
Economic Impact:	Beetles and thrips cause significant economic impact to Maine's ornamental horticulture industry through reduced crop quality, increased management costs, and loss of revenue .	
Labeled Products:		
Comments:		

IR-4

New Requests for : Bifenthrin 23.4%

Date of Request: 9/11/2025 10:19:00 AM

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: OnyxPro

ActiveIngredients: Bifenthrin 23.4%

Rate Per Application: 7.2

Volume Per Application: 100 gal/acre

Number of Applications: 2

Application Interval: 7 days

Research Target: Efficacy

Efficacy Target:

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. The balsam gall midge is one of the most economically damaging insect pest of balsam and Fraser fir Christmas tree's in the Northeastern U.S., reducing grade and marketability. Heavy infestations left unmanaged can lead to widespread culling of trees and losses exceeding 10% of harvest-age trees.

Labeled Products: Pradia

Comments: Pradia is currently the only product registered in Maine for control of midges in Christmas tree plantations and recent published efficacy data supported its use for control of balsam gall midge. Although balsam gall midge has no documented resistance to insecticides, having an additional product labeled for this use provides a tool for resistance management should resistance occur. OnyxPro is currently labeled for foliar application to Christmas trees for control of Douglas fir needle midge and aphids.

IR-4

New Requests for : Pherodis species-specific phermones

Date of Request:	9/15/2025 2:00:00 PM	**Related PRNumbers:**	
Name:	Karen Stauderman		
Affiliation:	UF/IFAS Extension Volusia County		
State:	FL		
ProjectType:	ConductEfficacy		
Crop Information:	Fern		
	Scientific Name: *Rumohra adiantiformis*		
	Common Name: Leatherleaf Fern		
	Plant Stage: expanded frond to hardening and fully expanded frond		
UseSite:	In a protective high-tun		
TradeName:	Pherodis by Koppert		
ActiveIngredients:	Pherodis species-specific phermones		
Rate Per Application:	two or four sachets (sachets contains 1 capsule) per hectare		
Volume Per Application:	4/acre		
Number of Applications:	4		
Application Interval:	sachet last 6 weeks		
Research Target:	Efficacy		
Efficacy Target:	Florida Fern and Fern Leaftier Caterpillars (Callopistria sp. and Herpetogramma sp.)		
Economic Impact:	It is difficult to quantify the monetary damage of these caterpillars on the cut foliage green industry. Currently, they are using insecticides at a frequent rate and resistance is becoming a potential reality. The fronds must be blemish free to be accepted for marketability in the floriculture industry. Growers want to use a better IPM approach to this pest and pheromones traps seem the most economical if they could just test out the products in the field.		
Labeled Products:	Bacillus thuringiensis (B.t.sprays), Diflubenzuron (		
Comments:			

IR-4

New Requests for : Pherodis species-specific phermones

Date of Request:	9/15/2025 2:02:00 PM	**Related PRNumbers:**	
Name:	Karen Stauderman		
Affiliation:	UF/IFAS Extension Volusia County		
State:	FL		
ProjectType:	ConductEfficacy		
Crop Information:	Fern		
	Scientific Name: *Rumohra adiantiformis*		
	Common Name: Leatherleaf Fern		
	Plant Stage: expanded frond to hardening and fully expanded frond		
UseSite:	In a protective high-tun		
TradeName:	Pherodis by Koppert		
ActiveIngredients:	Pherodis species-specific phermones		
Rate Per Application:	two or four sachets (sachets contains 1 capsule) per hectare		
Volume Per Application:	4/acre		
Number of Applications:	4		
Application Interval:	sachet last 6 weeks		
Research Target:	Efficacy		
Efficacy Target:	Florida Fern and Fern Leaftier Caterpillars (Callopistria sp. and Herpetogramma sp.)		
Economic Impact:	It is difficult to quantify the monetary damage of these caterpillars on the cut foliage green industry. Currently, they are using insecticides at a frequent rate and resistance is becoming a potential reality. The fronds must be blemish free to be accepted for marketability in the floriculture industry. Growers want to use a better IPM approach to this pest and pheromones traps seem the most economical if they could just test out the products in the field.		
Labeled Products:	Bacillus thuringiensis (B.t.sprays), Diflubenzuron (Adept, Dimilin)		
Comments:			

IR-4 **New Requests for : Not sure**

Date of Request:	9/15/2025 4:03:00 PM	**Related PRNumbers:**
Name:	Daniel Gilrein	
Affiliation:	Cornell Coop Extension of Suffolk Co	
State:	NY	
ProjectType:	ConductEfficacy	
Crop Information:	Broadleaf Evergreen Tree/Shrub	
	Scientific Name: *Buxus spp.*	
	Common Name: Boxwood	
	Plant Stage: vegetative (late spring/summer) early in infestation	
UseSite:	nursery container, nurse	
TradeName:	Not sure	
ActiveIngredients:	Not sure	
Rate Per Application:	Not sure	
Volume Per Application:	Not sure	
Number of Applications:	Not sure	
Application Interval:		
Research Target:	Efficacy	
Efficacy Target:	boxwood leafminer	
Economic Impact:		
Labeled Products:	abamectin, imidacloprid, acetamiprid, bifenthrin, carbaryl, cyantraniliprole, cyclaniliprole	
Comments:	Need alternatives to neonics as restrictions increase. Abamectin appears to work only if timed for adults - difficult. No data seen on bifenthrin, carbaryl. Efficacy poor in one trial with diamide timed for larvae in leaves. Conserve did not work timed for adults. Are there other options worth testing?	

IR-4

New Requests for : plinazolin

Date of Request:	9/15/2025 3:44:00 PM	**Related PRNumbers:**
Name:	Daniel Gilrein	
Affiliation:	Cornell Coop Extension of Suffolk Co	
State:	NY	
ProjectType:	ConductEfficacy	
Crop Information:	Herbaceous Flowering Plant	
	Scientific Name: *Dendranthema sp*	
	Common Name: Chrysanthemum, e.g.	
	Plant Stage: vegetative or bloom	
UseSite:	Nursery (container)	
TradeName:	none	
ActiveIngredients:	plinazolin	
Rate Per Application:	4 - 6 fl oz/100 gal?	
Volume Per Application:	150-250 gal/A est	
Number of Applications:	2	
Application Interval:		
Research Target:	Efficacy	
Efficacy Target:	thrips, esp. western flower	
Economic Impact:		
Labeled Products:	Conserve,abamectin, acephate, acetamiprid, azadirachtin, B. basxiana, pyrethroids, cyantraniliprol	
Comments:	Looking to increase options for outdoor use. Many not v effective for WFT (resistance or other reasons), some phytotoxic, acephate to be cancelled (except trunk injection) and few labeled crops, some restricted due to groundwater concerns (diamides) or other reasons (neonics). Plinazolin appears to be highly effective for WFT and may be a candidate; interested also in other options effective and safe for plants with outdoor-use labeling .	

IR-4

New Requests for Insecticides: flonicamid

Date of Request:	9/15/2025 4:21:00 PM	**Related PRNumbers:**
Name:	Daniel Gilrein	
Affiliation:	Cornell Coop Extension of Suffolk Co	
State:	NY	
ProjectType:	ConductEfficacy	
Crop Information:	Herbaceous Flowering Plant - Annual/Biennial/Peren	
	Scientific Name: *Impatiens spp. Calibrachoa hybrida*	
	Common Name: Impatiens, Calibrachoa	
	Plant Stage: vegetative or bloom	
UseSite:	greenhouse	
TradeName:	Aria	
ActiveIngredients:	flonicamid	
Rate Per Application:	<20g/100 gal	
Volume Per Application:	TBD	
Number of Applications:	max 240g/A/yr	
Application Interval:	1 app	
Research Target:	Efficacy	
Efficacy Target:	aphids (several species)	
Economic Impact:		
Labeled Products:	imidacloprid, spirotetramat	
Comments:	Interest in drench use for Aria/flonicamid e.g. hanging baskets for aphids. Labeled in Canada as drench not US. Low rates we've tested have been highly effective, not sure how we can go. High rates tried in Canada have been phytotoxic but were excessive. Some phyto issues with spirotetramat, increasing restrictions with neonics.	

IR-4

New Requests for Insecticides: Spirotetramat

Date of Request: 9/15/2025 3:54:00 PM **Related PRNumbers:**

Name: Daniel Gilrein

Affiliation: Cornell Coop Ext Suffolk Co

State: NY

ProjectType:

Crop Information: Narrowleaf Evergreen Tree/Shrub

Scientific Name: *Pseudotsuga menziesii*

Common Name: Douglas-fir

Plant Stage: soon after budbreak, possibly late spring/summer

UseSite: nursery field

TradeName: Movento

ActiveIngredients: Spirotetramat

Rate Per Application: 5 - 10 fl oz/A?

Volume Per Application: 200 GPA?

Number of Applications: 1

Application Interval:

Research Target: Efficacy

Efficacy Target: Douglas-fir needle midge

Economic Impact:

Labeled Products: acephate, bifenthrin, thiamethoxam

Comments: Efficacy data needed.Few products labeled for gall midges; tested acetamiprid (targeting larvae in foliage) with poor results. Expect to lose acephate in few years. Movento already labeled for Xmas trees and (on other plants) for gall midges.