Ornamental Horticulture Program
Research Report Form

Researcher/Institute: John Doe/Central University **Date:** 9/1/2010
Project Title : Dimethenamid-p Crop Safety (Field Container)
Protocol #: 10-001 **PRnumbers:** 27120, 27257

Narrative Summary (Results/Discussion)

Please keep text to one page if possible. Include summary of trial results and a brief discussion including how any changes from the protocol may have affected results. Results for multiple PRnumbers can be summarized together, but please list all PRNumbers in the header and in the summary data table.

Tower was evaluated on container grown *Clethra alnifolia* and *Cryptomeria japonica* 'Yoshino' on an outdoor nursery pad. *Clethra alnifolia* treated with 0.97, 1.94, 3.88 lb ai/A Tower exhibited some chlorosis and foliar necrosis with 2X and 4X applications and later ratings reflected stunting. *Cryptomeria japonica* demonstrated no injury after the initial application but persistent tip necrosis and reduced plant height was observed (see photos) after 2nd application at all rates.

Results Table

Please insert results table here. Include PRnumbers for each treatment if multiple PRnumbers are included in this summary. Please include statistics.

PR#	Plant Species	Phytotoxicity and Growth results
27121	Clethra alnifolia	Crop injury observed with 2X and 4X applications. Initial injury was necrosis of the foliage. Later injury ratings reflect stunting (slower growth compared to the non treated plants.)
27257	Cryptomeria japonica	No significant injury was observed with one application but second application resulted in persistent tip necrosis and reduced plant height with all rates.

Summary of injury to *Clethera alnifolia*

27121	Tower rate lb ai/A	1WAT	2WAT	6WAT	1WAT2	2WAT2	4WAT2	6WAT2	8WAT2
	0.97	0 a*	0 a	0 a	2 a	2 a	0 a	0 a	0 a
	1.94	15 b	21 bc	0 a	15 b	20 b	25 bc	15 b	15 b
	3.88	35ca	30 c	2 a	18 b	28 bc	18 b	30 c	25 bc
	Untreated	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a

*Means followed by same letter do not significantly differ (P=0.05, LSD**)**

Summary of injury to *Cryptomeria japonica* 'Yoshino'

27257	Tower rate lb ai/A	1WAT	2WAT	6WAT	1WAT2	2WAT2	4WAT2	6WAT2	8WAT2
	0.97	0 a*	0 a	0 a	8 a	18 b	18 b	15 b	10 b
	1.94	0 a	0 a	0 a	30 c	33 c	25 a	23 bc	20 bc
	3.88	0 a	0 a	2 a	33 c	38 c	33 c	40 cd	35 c
	Untreated	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a

*Means followed by same letter do not significantly differ (P=0.05, LSD**)**

Researcher/Institute: John Doe/Central University **Date:** 9/1/2010
Project Title : Dimethenamid-p Crop Safety (Field Container)
Protocol #: 10-001 **PRnumbers:** 27120, 27257

Materials & Methods/Recordkeeping

Please fill out the information below or attach a separate document with comparable information.

Name(s) of Personnel Conducting Research: Joe Doe, Mike Brown
Location of Trial (city/state): 777 Nursery Ln, Gainesville, FL 12351
Use Site (greenhouse/shadehouse/field container/etc): field container

Crop History

Crop Cultivar/Variety:	Clethra alnifolia (Summersweet), Ternstroemia japonica (Cleyera) 'Yoshino'
Date of Seeding:	Click here to enter text.
Date of Emergence:	Click here to enter text.
Date of Transplanting:	June 1, 2010
Potting Mix:	Pinebark:sand, 8:1 v/v
Pot size & spacing:	1 gallon
Plant size	Clethra – 14"ht; Ternstromeria 8" ht.
Row spacing:	6"

Product(s) applied prior to start of experiment:

Product	Rate	Application Type	Date of Application	Crop Growth Stage	Application Volume
Harrell's 17-5-11 + minors, 9 month release	16lb/cu. yd	Incorporated before potting	6/1/2010	Well-rooted liners	NA

Add more rows as needed.

Researcher/Institute: John Doe/Central University **Date:** 9/1/2010
Project Title : Dimethenamid-p Crop Safety (Field Container)
Protocol #: 10-001 **PRnumbers:** 27120, 27257

Experiment Information

Experimental Design: RCBD
Number of Reps: 4 with 3 plants of each species per pot

Materials & Methods:
Insert materials & methods here only if information is not presented elsewhere.
Include any changes from protocol.
Click here to enter text.

Application Equipment: hand held shaker jar
Product(s) applied during experiment (including treatments, fertilizers, etc):

Product	Rate(s)	Application Type	Date of Application	Crop Growth Stage	Application Volume
Tower EC	0.97 lb ai/A, 21 oz product/A	PRE	6/2/2010, 7/19/2010	Newly transplanted; 8 weeks established	na
Tower EC	1.94 lb ai/A, 42 oz/A	PRE	6/2/2010, 7/19/2010	Newly transplanted; 8 weeks established	na
Tower EC	3.88 lb ai/A, 84 oz/A	PRE	6/2/2010, 7/19/2010	Newly transplanted; 8 weeks established	na

Add more rows as needed.

Researcher/Institute: John Doe/Central University **Date:** 9/1/2010
Project Title : Dimethenamid-p Crop Safety (Field Container)
Protocol #: 10-001 **PRnumbers:** 27120, 27257

Photos

Non-treated Tower 1X Tower 2X

Photos taken about 10 days after 2nd application

Data Collected

Please describe data collected and scoring system. Also include the dates data were collected.
Plant injury was visually evaluated 1,2, and 6 weeks after first treatment and 1,2,4,6 and 8 weeks after retreatment on a scale of 0 to 10 where 0=no injury (indistinguishable from non-treated plants) and 10= dead plants.

Raw Data

Insert raw data below or send separate file containing raw data.
See separate file sent.

Researcher/Institute: John Doe/Central University **Date:** 9/1/2010
Project Title : Dimethenamid-p Crop Safety (Field Container)
Protocol #: 10-001 **PRnumbers:** 27120, 27257

Environmental conditions during the experiment:

Insert temperature, precipitation and/or irrigation, and relative humidity with a minimum of high, low and average daily temperatures. Or send separate file with this information.
Include a statement about any significant weather or environmental events during the course of the experiment.

Typical temperatures and humidity for the season. High temperature 98F, low 70F, average daily temp. 86F, average RH 70%. Irrigation delivered ½" in a.m. and p.m daily via overhead sprinkler. High winds from a storm impacted the trial but visual evaluations were possible. See attached file for weather data.