

## Impact of various PGRs on branching of woody ornamentals.

### Ornamental Protocol Number: 07-016

**Objective:** Determine whether certain PGR materials enhance the branching pattern of certain ornamentals

### Experimental Design:

**Plot Size:** Must be adequate to reflect actual use conditions.

**Replicates:** Minimum of 10 replications of same cultivar; attempting to select replicates of similar initial branching

**Application Instructions:** Applications should be made using equipment consistent with conventional commercial application equipment. Foliar spray only. Plant stage: make application on established plants in either 1 or 3 gallon pots. Rooted cuttings preferred. Prune at liner stage, transplant, and then treat when roots reach bottom of pot or at a set point in time. Note timings in final report: applications should be made during active growth, at least one week after bud break.

**Target Plant Species:** Azalea, holly, rose, hydrangea, two others tbd.

**Use Site:** Greenhouse/Field Container/Field In-ground

**Evaluations:** Height, diameter, number of shoots, phytotoxicity (with 0 being no phytotoxicity and 10 being plant death), and, depending on age & plant type, flowering length. Initial assessments should be made prior initial treatment. Final assessments should be made 3 to 6 weeks after the last application depending on plant material and plant growth.

*If different application methods or evaluations are made, please clearly specify differences in final report and explain how they enhanced results.*

**Recordkeeping:** Keep detailed records of weather conditions including temperature and precipitation, soil-type or soil-less media, application equipment, application volume per acre, irrigation, pot/liner size, plant height & width, and plant growth stage at application and data collection dates. Please include photos of examples of untreated plants and any treated plants exhibiting responses to treatments, taking photographs of any clear enhancement or detractor from visual quality at the end of the experiment.

### Treatments:

Product	Priority	Rate	Special Instructions	Contact Information to obtain materials and any needed adjuvants
Cyclanilid 2.8SC	A	0.5 oz/100 gal (112 ppm)	Single application	Bayer Environmental Sciences, Don Meyers, <a href="mailto:don.myers@bayercropscience.com">don.myers@bayercropscience.com</a>
Cyclanilid 2.8SC	A	0.5 oz/100 gal (112 ppm)	Two applications, second application two to three weeks after first	Bayer Environmental Sciences, Don Meyers, <a href="mailto:don.myers@bayercropscience.com">don.myers@bayercropscience.com</a>
Fascination (6BA + GA4+7), Valent	A	28 ml/liter (500 ppm)	Two applications at 4 week intervals, beginning approximately 4 weeks after pinching	Valent, Joe Chamberlin, 770-985-0303, <a href="mailto:jcham@valent.com">jcham@valent.com</a>
OR Fresco (6BA + GA4+7), Fine				Fine Americas, Kevin Forney, 661-588-7137, <a href="mailto:kevinf@fine-america.com">kevinf@fine-america.com</a>
Exilis Plus (6BA), Fine	B	26.5 ml/liter (500 ppm)	Two applications at 4 week intervals, beginning approximately 4 weeks after pinching	Fine Americas, Kevin Forney, 661-588-7137, <a href="mailto:kevinf@fine-america.com">kevinf@fine-america.com</a>
OR MaxCel (6BA), Valent				Valent, Joe Chamberlin, 770-985-0303, <a href="mailto:jcham@valent.com">jcham@valent.com</a>
ProVide (GA4+7), Valent	B	5 g/liter (500 ppm)		Valent, Joe Chamberlin, 770-985-0303, <a href="mailto:jcham@valent.com">jcham@valent.com</a>
OR NovaGib (GA4+7), Fine				Fine Americas, Kevin Forney, 661-588-7137, <a href="mailto:kevinf@fine-america.com">kevinf@fine-america.com</a>
Untreated		--	--	

**Reports:**

Reports must include:

Results summary (no more than one page)

Summary table with appropriate statistical analyses

Experimental design and materials and methods

Appendices: raw data and recordkeeping information as listed above

If pictures were taken, please include them.

A report submitted electronically is preferred but not required. If the report is provided electronically, the basic report can be sent in MS Word or WordPerfect, the recordkeeping information as pdf or other electronic documents, and the raw data in MS Excel or other suitable program such as ARM.

**Please direct questions to:** Cristi Palmer, IR-4 HQ, Rutgers University, 681 US Hwy 1 S, North Brunswick, NJ 08902-3390, Phone 732-932-9575 x629, [palmer@aesop.rutgers.edu](mailto:palmer@aesop.rutgers.edu) **OR** Ely Vea, 308 Aston Forest Lane, Crownsville, MD 21032, Phone & FAX#: 410-923-4880, E-mail: [evvea@comcast.net](mailto:evvea@comcast.net).

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Revised By: CLP