Report Submitted to Fine Americas, Inc.

# Evaluation of Piccolo 10 XC Spray and Drench Applications on Poinsettia

Winter 2011

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#### **Materials and Methods**

#### **Plant Species**

- (Euphorbia pulcherima) 'Early Prestige'
- (Euphorbia pulcherima) 'Enduring Red'
- (Euphorbia pulcherima) 'Ice Punch'
- Plants delivered 18 August 2010 from Paul Ecke Ranch (Encinitas, CA) to Purdue University (West Lafayette, IN)
- Rooted cuttings were planted on 19 August 2010 in 6.5 inch pots in Fafard Custom 1P media

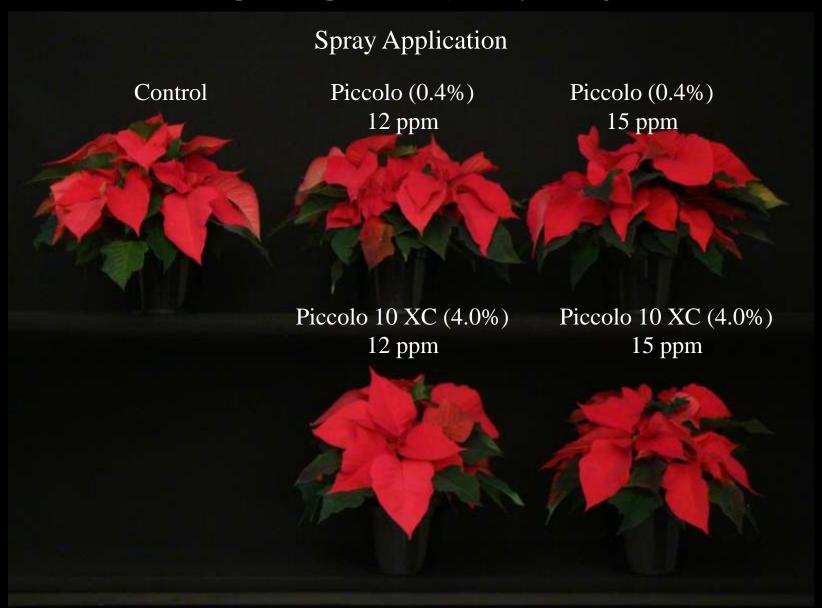
#### **Materials and Methods**

- Grown under non-inductive photoperiod with day extension light provided from 4 to 10 PM by HPS lights until 01 October 2010
- On 01 October 2010 began inductive short day treatments
- Temperature set point 75/67 °F D/N (12 h/12 h)
- On 02 September 2010 plants were pinched to 6 nodes
- First PGR applications made on 24 September 2010

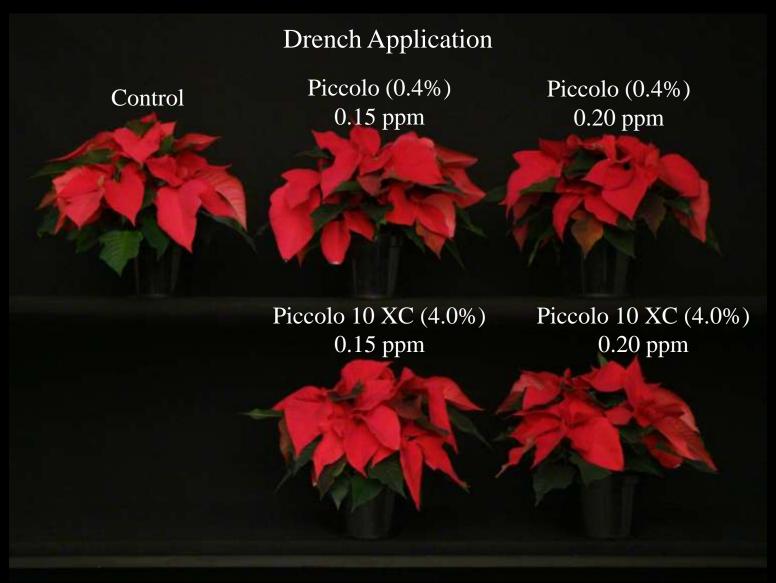
# Growth Regulator Application Rates

| Product       | Formulation | Application<br>Method | Rate               |
|---------------|-------------|-----------------------|--------------------|
| Control       | NA          | NA                    | NA                 |
| Piccolo       | 0.4%        | Spray                 | 12 ppm, 15 ppm     |
| Piccolo 10 XC | 4.0%        | Spray                 | 12 ppm, 15 ppm     |
| Piccolo       | 0.4%        | Drench                | 0.15 ppm, 0.20 ppm |
| Piccolo 10 XC | 4.0%        | Drench                | 0.15 ppm, 0.20 ppm |

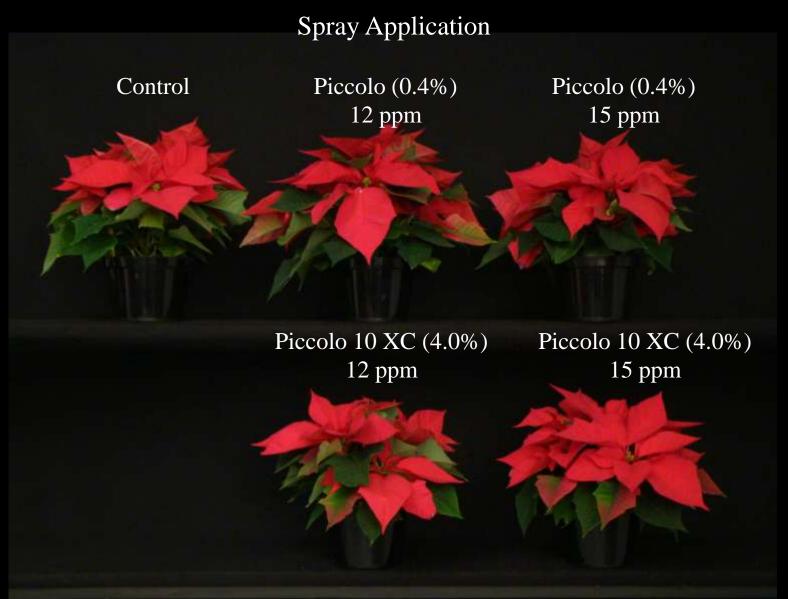
(Euphorbia pulcherima) 'Early Prestige'



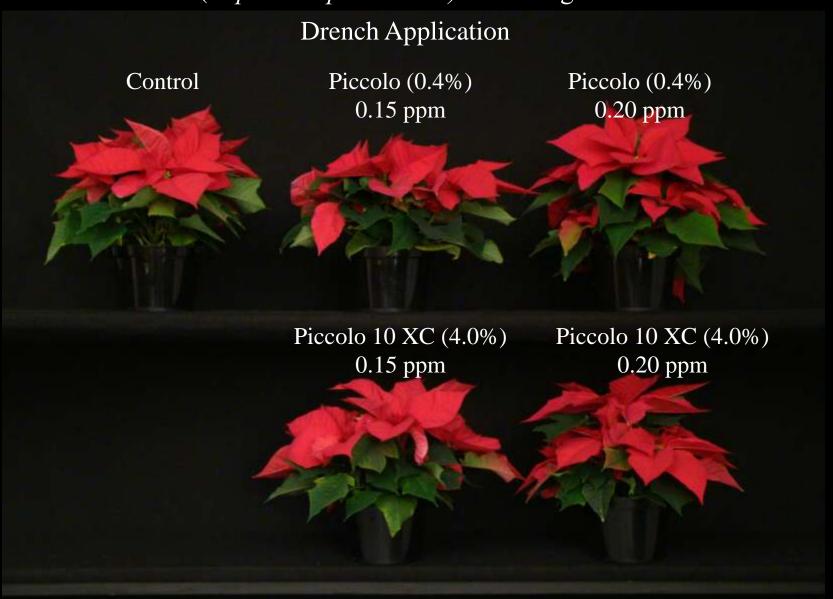
(Euphorbia pulcherima) 'Early Prestige'

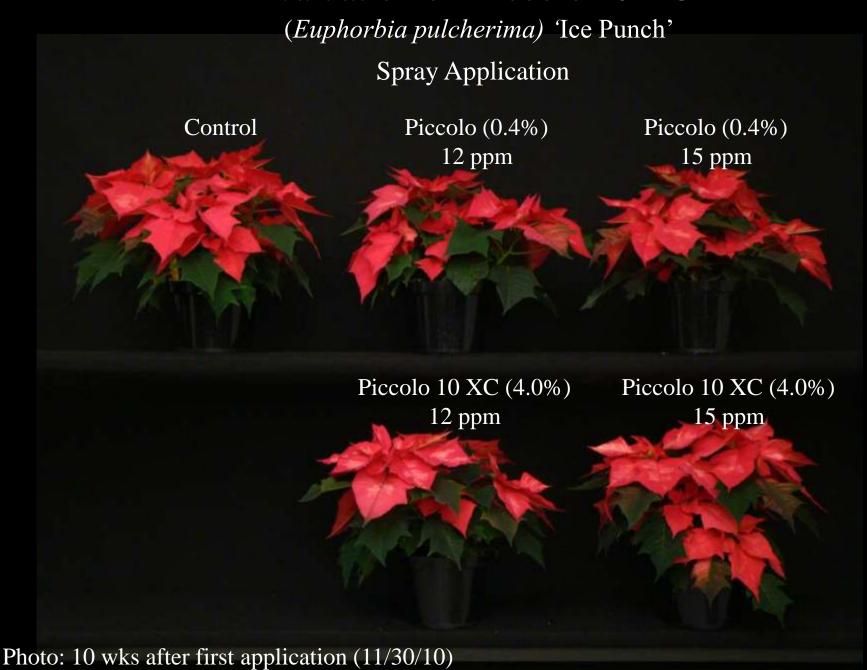


(Euphorbia pulcherima) 'Enduring Red'

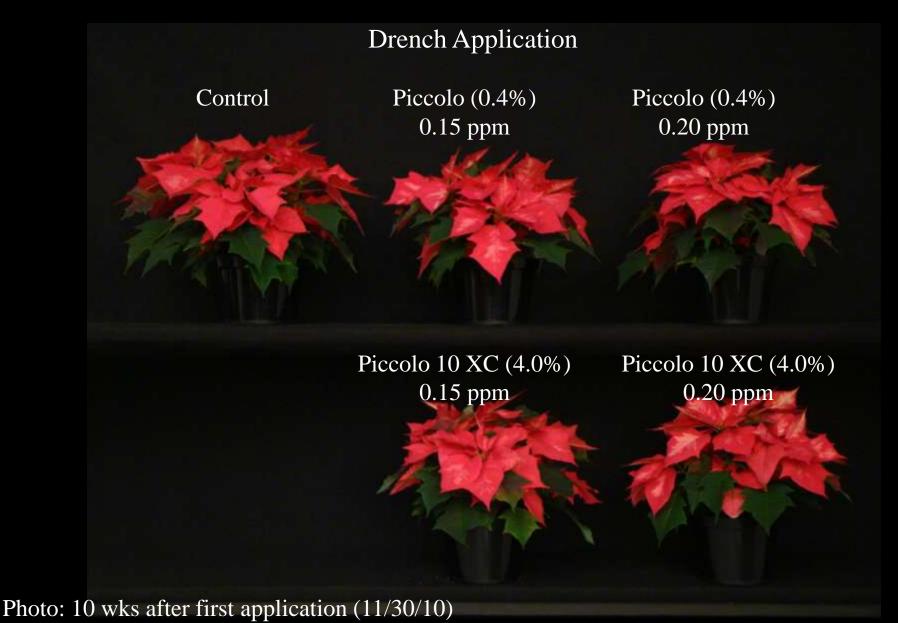


(Euphorbia pulcherima) 'Enduring Red'





(Euphorbia pulcherima) 'Ice Punch'



# Evaluation of Piccolo 10 XC Final Height (cm)

| Treatments             | 'Early Prestige' | 'Enduring Red' | 'Ice Punch' |
|------------------------|------------------|----------------|-------------|
| Control                | 33.9             | 34.4 b*        | 33.1        |
| 12 ppm spray (0.4%)    | 31.4             | 34.9 b         | 31.1        |
| 12 ppm spray (4.0%)    | 32.2             | 31.6 ab        | 32.2        |
| 15 ppm spray (0.4%)    | 32.0             | 32.8 ab        | 30.7        |
| 15 ppm spray (4.0%)    | 31.8             | 30.3 a         | 32.2        |
| 0.15 ppm drench (0.4%) | 32.3             | 33.5 ab        | 30.5        |
| 0.15 ppm drench (4.0%) | 31.7             | 32.6 ab        | 32.2        |
| 0.20 ppm drench (0.4%) | 31.4             | 32.5 ab        | 32.0        |
| 0.20 ppm drench (4.0%) | 31.6             | 31.8 ab        | 31.0        |

<sup>\*</sup> Different letters indicate significantly different means, no letters indicate non-significance at 0.05.

# Evaluation of Piccolo 10 XC Days to flower

| Treatments             | 'Early Prestige' | 'Enduring Red' | 'Ice Punch' |
|------------------------|------------------|----------------|-------------|
| Control                | 58*              | 53             | 51          |
| 12 ppm spray (0.4%)    | 58               | 53             | 53          |
| 12 ppm spray (4.0%)    | 56               | 53             | 53          |
| 15 ppm spray (0.4%)    | 58               | 52             | 53          |
| 15 ppm spray (4.0%)    | 56               | 52             | 52          |
| 0.15 ppm drench (0.4%) | 58               | 52             | 53          |
| 0.15 ppm drench (4.0%) | 56               | 54             | 52          |
| 0.20 ppm drench (0.4%) | 59               | 52             | 52          |
| 0.20 ppm drench (4.0%) | 56               | 54             | 53          |

<sup>\*</sup> No letters indicates non-significance at 0.05.