



# Poinsettia Trials: White Cultivars

## North Carolina State University

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This publication focuses on white poinsettia cultivars. The 2019 North Carolina State University Poinsettia Trial Program is a cooperative program with Joe Stoffregen and Denise Etheridge at Homewood Nursery & Garden Center. We had a 126 poinsettia cultivar comparison from seven suppliers. This year we have 17 experimental cultivars representing the latest in breeding efforts and future introductions. We would like to thank the following breeders for providing cuttings and financial support:

Beekenkamp  
Dümmen Orange  
Lazzeri  
Rinehart Poinsettias  
Selecta 1<sup>st</sup> Class (Ball Horticultural)  
Suntory  
Syngenta Flowers

● We would also like to thank **Old Castle** for donating the substrate used in the trial, **Fine Americas** for the plant growth regulator trials and for providing lunch, **Koba Plastics** for supplying the pot and rings, **Flopak USA** for providing the pot covers, and the **North Carolina Agricultural Research Service** support of staff and greenhouse facilities.

● Of course, this would not be possible without the assistance of many other people, including **Matthew Davis, Josh Henry, Nathan Jahnke, Bradley Holland, and Tim Ketchie**.

**fine**

**KOBA**

**flopak**  
We've got you covered

**Oldcastle**

## Summary of Findings

- 126 cultivars evaluated
- Top cultivars selected by growers highlighted.
- Plants grown natural season
- No plant growth regulators used
- Data collected on flowering, height and diameters

## Supported by

Poinsettia Breeders:  
Ball Horticulture, Beekenkamp,  
Dümmen Orange, Lazzeri, Rinehart  
Poinsettias, Selecta, Suntory, &  
Syngenta

Fine Americas, Koba,  
Flopak & Oldcastle





PON 112 Experimental

Beekenkamp included two white experimental cultivars in the trials. The top pick by growers was PON 112 Experimental.



PON 128 Experimental





Bravo White

Nine white entrees were submitted by Dümmen Orange. Frozen, White Wonder, and Princettia Pure White were highlighted by growers.



Enduring White



Frozen (EK3818SP Experimental)





Infinity Polar



Polar Bear



Premium Polar



Princettia Pure White



RF526WH Experimental



White Wonder





Alaska

Lazzeri is an Italian plant breeder. Lazzeri partnered with both Ball Horticulture/Selecta and Syngenta to submit cultivars. Alaska was the standout cultivar to growers.



Alpina





# RINEHART POINSETTIAS

Rinehart Poinsettias included three cultivars in the trials. Two were white and one was red. Jack Frost was highlighted by grower.



Jack Frost (16-1384)



Pure White 14-619





Alaska White

Selecta/Ball Horticulture had nine white cultivars in the trials. Alaska and Christmas Joy White were highlighted by growers as new cultivars of interest.



Alpina White



Christmas Beauty North Pole





Christmas Feelings White



Christmas Glory White



Christmas Joy White





# SUNTORY

SUNTORY FLOWERS



Princettia Pure White

Suntory submitted their Princettia line of poinsettias to the trial. The compact growth of Princettia Pure White makes it well suited for smaller sized pots.



Planter containing Princettia Red and Princettia Pure White.





Alaska

Syngenta had one white cultivar in the trials, along with two they introduced from Lazzeri. Growers highlighted Alaska as their top selection.



Alpina



Titan White



## Plant Culture

Houses 1 and 2 contain the poinsettia trial with 8 plants (with 6 being used for the trial display) of each cultivar grown in 6 ½-inch pots and pinched; none of the plants have been treated with plant growth regulators (PGRs). Our goal was to show the natural vigor of each cultivar. The primary potting week was WK 32, but some cultivars arrived WK 34 (see data table).

House 1&2►6 ½-inch pots, pinched poinsettias, all cultivars, no PGRs. Plants were grown as follows:

- Potted August 8, 2019 (unless denoted).
- Set Temperature at 64/75 °F night/day.
- Pinched August 29, 2019.
- Applied Safari Drench on Sept. 27.
- Used 200 ppm 20-10-20 for the first three weeks, then switched to 13-2-13 for the remainder of the season. Plants were leached as needed with clear water.
- Sodium molybdate (0.1 ppm) drenches were applied on Sept. 20, Oct. 22.
- Magnesium sulfate (1lb/100gal) drenches were applied on Sept. 24, Oct. 25.
- Applied STEM (4 oz/100 gal) on Oct. 8.
- Reduced temperature to 60/70 °F night/day on Nov. 13.



fine



## NC State University Poinsettia Trials 2019

Breeder	Cultivar	Color	Pot Week	House	Bench	Date first bract color	Date anthesis	Plant height (cm)	Plant diameter (cm)
Dummen	Alta	Red	32	1	26	14-Oct	25-Nov	27.2	42.4
Dummen	Bravo Bright Red	Red	32	1	26	14-Oct	13-Nov	27.5	43.0
Dummen	Enduring Red	Red	32	1	26	21-Oct	25-Nov	31.4	41.4
Dummen	Grande Italia	Red	32	1	26	21-Oct	6-Dec	30.6	49.2
Dummen	Premium Red	Red	32	1	25	15-Oct	25-Nov	27.1	42.7
Dummen	Prestige Early Red	Red	32	1	25	20-Oct	12-Nov	30.5	37.6
Dummen	Prestige Maroon	Maroon/Specialty	32	1	25	21-Oct	2-Dec	31.2	37.7
Dummen	Prestige Red	Red	32	1	25	22-Oct	29-Nov	28.3	37.1
Dummen	Prima Bella	Red	32	1	24	20-Oct	1-Dec	41.1	45.1
Dummen	Prima Donna	Red	32	1	24	17-Oct	14-Nov	33.1	45.7
Dummen	Prima Red 2.0	Red	32	1	24	21-Oct	24-Nov	34.7	42.7
Dummen	Red Soul	Red	32	1	24	12-Oct	15-Nov	30.1	38.1
Dummen	RF503CB	Red	32	1	23	16-Oct	24-Nov	34.8	41.0
Dummen	Solstice Red	Red	32	1	23	21-Oct	25-Nov	30.4	41.8
Dummen	Southern Belle	Red	32	1	23	13-Oct	2-Dec	27.7	42.7
Dummen	Tapestry	Red/Specialty	32	2	12	20-Oct	30-Nov	36.5	39.7
Dummen	Viking Red	Red	32	1	23	20-Oct	24-Nov	32.2	45.9
Dummen	Winter Rose Early Red	Red	32	1	22	20-Oct	23-Nov	32.8	27.7
Dummen	Bravo Pink	Pink	32	2	8	20-Oct	22-Nov	28.1	33.8
Dummen	EK1584	Pink	32	2	8	18-Oct	23-Nov	45.1	53.3
Dummen	Enduring Pink	Pink	32	2	8	18-Oct	18-Nov	42.2	52.9
Dummen	J'Adore Hot Pink	Pink/Specialty	32	2	8	12-Oct	13-Nov	39.2	48.1
Dummen	J'Adore Pink	Pink/Specialty	32	2	8	14-Oct	13-Nov	35.6	47.8
Dummen	Luv U Pink	Pink	32	2	8	16-Oct	18-Nov	52.7	51.8
Dummen	Polly's Pink	Pink	32	2	8	28-Oct	3-Dec	32.8	46.8
Dummen	Premium Lipstick Pink	Pink	32	2	11	20-Oct	23-Nov	32.3	43.1
Dummen	Bravo White	White	32	1	20	10-Oct	17-Nov	25.1	43.6
Dummen	Frozen [EK3818SP]	White	32	1	20	13-Oct	26-Nov	27.9	41.0
Dummen	Enduring White	White	32	1	21	10-Oct	16-Nov	29.0	44.8
Dummen	Infinity Polar	White	32	1	21	14-Oct	29-Nov	30.2	41.8
Dummen	Polar Bear	White	32	1	21	14-Oct	23-Nov	33.1	44.3
Dummen	Premium Polar	White	32	1	22	14-Oct	26-Nov	24.4	41.2
Dummen	RF526WH	White	32	1	22	15-Oct	29-Nov	29.2	38.4
Dummen	White Wonder	White	32	1	22	14-Oct	29-Nov	28.2	42.2
Dummen	Golden Glo	Specialty	32	2	12	16-Oct	24-Nov	29.2	37.3
Dummen	Green Envy 2019	Specialty	32	2	12	17-Oct	26-Nov	35.1	44.7
Dummen	Ice Punch	Specialty	32	2	11	22-Oct	24-Nov	33.7	47.2
Dummen	Premium Ice Crystal	Specialty	32	2	11	15-Oct	18-Nov	26.7	37.8
Dummen	Premium Marble	Specialty	32	2	11	21-Oct	23-Nov	26.7	39.6
Dummen	Princettia Pink	Specialty	32	2	12	13-Oct	15-Nov	27.2	34.4
Dummen	Princettia Pure White	Specialty	32	2	12	16-Oct	17-Nov	29.1	36.1
Dummen	Princettia Red	Specialty	32	2	12	9-Oct	17-Nov	34.1	29.7
Dummen	RF535JIN	Specialty	32	2	11	21-Oct	17-Nov	47.1	41.0
Dummen	Viking Cinnamon	Specialty	32	2	7	12-Oct	23-Nov	34.1	46.4



Breeder	Cultivar	Color	Pot Week	House	Bench	Date first bract color	Date anthesis	Plant height (cm)	Plant diameter (cm)
Syngenta	Draco Red	Red	32	1	7	21-Oct	25-Nov	31.2	41.1
Syngenta	Gemma Red	Red	32	1	7	19-Oct	29-Nov	30.7	45.4
Syngenta	Lyra	Red	32	1	5	21-Oct	22-Nov	40.2	47.3
Syngenta	Majoris Red	Red	32	1	5	14-Oct	15-Nov	37.2	47.7
Syngenta	Mirage	Red	32	1	6	16-Oct	24-Nov	33.3	43.2
Syngenta	Neva	Red	32	1	6	25-Oct	30-Nov	34.3	47.0
Syngenta	Titan Red	Red	32	1	7	12-Oct	13-Nov	32.1	52.9
Syngenta	Carina Hot Pink	Pink	32	2	10	7-Oct	16-Nov	27.6	42.4
Syngenta	Candy Bubblegum	Specialty	32	2	10	21-Oct	29-Nov	38.7	45.7
Syngenta	Candy Cinnamon	Specialty	32	2	10	20-Oct	24-Nov	33.8	40.7
Syngenta	Candy Wintergreen	Specialty	32	2	10	12-Oct	18-Nov	42.7	50.9
Beekenkamp	Aries Red	Red	32	1	8	15-Oct	25-Nov	34.2	50.7
Beekenkamp	Astro Red	Red	32	1	8	16-Oct	26-Nov	32.5	45.2
Beekenkamp	Blissful Red	Red	32	1	9	22-Oct	29-Nov	34.8	45.3
Beekenkamp	Leona Red	Red	32	1	10	22-Oct	29-Nov	34.7	45.7
Beekenkamp	PON 100 Red	Red	32	1	10	22-Oct	28-Nov	39.0	44.7
Beekenkamp	PON 122 Red	Red	32	1	10	8-Oct	15-Nov	35.2	53.9
Beekenkamp	PON 126 Red	Red	32	1	10	15-Oct	25-Nov	29.2	45.3
Beekenkamp	PON 127 Red	Red	32	1	11	9-Oct	14-Nov	35.3	41.6
Beekenkamp	PON 131 Red	Red	32	1	11	12-Oct	15-Nov	47.1	50.7
Beekenkamp	Robyn Red	Red	32	1	9	12-Oct	17-Nov	30.7	44.1
Beekenkamp	PON 64 Pink	Pink	32	2	11	19-Oct	22-Nov	32.7	43.6
Beekenkamp	PON 112 White	White	32	1	12	23-Oct	1-Dec	35.2	48.3
Beekenkamp	PON 128 White	White	32	1	12	15-Oct	3-Dec	27.4	45.6
Syngenta	Titan White	White	32	1	11	8-Oct	13-Nov	39.4	48.3
Lazzeri	Allegra Early Red	Red	32	1	2	17-Oct	12-Nov	31.7	45.3
Lazzeri	Allegra Red	Red	32	1	2	28-Oct	30-Nov	37.6	48.4
Lazzeri	Desiderio Red	Red	32	1	2	17-Oct	23-Nov	31.6	45.3
Lazzeri	Futura Brilliant Red	Red	32	1	3	21-Oct	29-Nov	29.1	41.8
Lazzeri	Futura Red	Red	32	1	3	21-Oct	28-Nov	29.1	38.7
Lazzeri	Opera	Red	32	1	3	21-Oct	22-Nov	37.4	44.9
Lazzeri	Serena Red	Red	32	1	4	20-Oct	23-Nov	37.4	49.3
Lazzeri	Superba Red	Red	32	1	4	21-Oct	1-Dec	32.6	45.4
Lazzeri	Alaska	White	32	1	4	16-Oct	29-Nov	37.6	43.2
Lazzeri	Alpina	White	32	1	5	20-Oct	23-Nov	31.2	45.1
Lazzeri	Superba Glitter	Specialty	32	2	11	20-Oct	21-Nov	32.7	43.7
Rinehart Poinsettias	New Experimental 16-678	Red	32	1	1	26-Oct	>9-Dec	31.7	48.5
Rinehart Poinsettias	Jack Frost 16-1384	White	32	1	1	22-Oct	>9-Dec	37.7	44.0
Rinehart Poinsettias	Pure White 14-619	White	32	1	1	19-Oct	2-Dec	45.4	48.4



Breeder	Cultivar	Color	Pot Week	House	Bench	Date first bract color	Date anthesis	Plant height (cm)	Plant diameter (cm)
Suntory	Princettia Dark Pink Oasis	Specialty	32	2	7	6-Oct	19-Nov	33.4	42.2
Suntory	Princettia Hot Pink Oasis	Specialty	32	2	7	14-Oct	12-Nov	29.3	42.0
Suntory	Princettia Pink Oasis	Specialty	32	2	7	12-Oct	18-Nov	33.7	45.3
Suntory	Princettia Pink Queen Oasis	Specialty	32	2	7	14-Oct	20-Nov	33.7	41.7
Suntory	Princettia Pure White Oasis	Specialty	32	2	7	15-Oct	18-Nov	28.0	37.4
Suntory	Princettia Red Oasis	Specialty	32	2	7	6-Oct	20-Nov	28.7	39.6
Ball/Selecta	Christmas Aurora	Red	34	1	18	18-Oct	3-Dec	29.1	39.6
Ball/Selecta	Christmas Beauty Red	Red	32	1	15	16-Oct	29-Nov	29.2	41.2
Ball/Selecta	Christmas Bells SK 159	Red	32	1	19	18-Oct	26-Nov	33.8	43.1
Ball/Selecta	Christmas Bells SK 159 (Late)	Red	34	1	19	17-Oct	25-Nov	36.7	43.3
Ball/Selecta	Christmas Cheer	Red	34	1	18	20-Oct	28-Nov	29.8	38.9
Ball/Selecta	Christmas Eve Red	Red	34	1	18	18-Oct	26-Nov	26.1	35.8
Ball/Selecta	Christmas Feelings Merlot	Red	34	1	18	18-Oct	29-Nov	25.3	42.6
Ball/Selecta	Christmas Feelings Red	Red	34	1	17	19-Oct	1-Dec	28.5	37.2
Ball/Selecta	Christmas Glory Red	Red	32	1	20	19-Oct	25-Nov	28.0	43.8
Ball/Selecta	Christmas Joy Red	Red	34	1	17	19-Oct	22-Nov	29.7	40.0
Ball/Selecta	Christmas Magic Red	Red	32	1	19	12-Oct	15-Nov	27.4	39.3
Ball/Selecta	Christmas Morning	Red	32	1	19	13-Oct	26-Nov	27.6	41.1
Ball/Selecta	Christmas Mouse	Red/Specialty	34	1	16	23-Oct	7-Dec	30.0	32.4
Ball/Selecta	Christmas Spirit	Red	34	1	17	14-Oct	26-Nov	27.1	42.2
Ball/Selecta	Christmas Wish Red	Red	34	1	17	20-Oct	25-Nov	25.2	44.0
Ball/Selecta	Noel Red	Red	34	1	16	27-Oct	30-Nov	28.6	38.9
Ball/Selecta	SkyStar	Red/Specialty	34	1	20	28-Oct	4-Dec	30.8	41.8
Ball/Selecta	SK 167	Red	34	1	12	16-Oct	22-Nov	32.2	44.7
Ball/Selecta	SK 168	Red	34	1	13	21-Oct	1-Dec	33.4	39.9
Ball/Selecta	SK 175	Red	34	1	13	21-Oct	>9-Dec	37.3	43.6
Ball/Selecta	SK 176	Red	34	1	13	21-Oct	8-Dec	32.2	45.6
Ball/Selecta	Christmas Glory Pink	Pink	32	2	9	20-Oct	29-Nov	30.7	40.1
Ball/Selecta	Christmas Feelings Pink	Pink	34	2	9	22-Oct	28-Nov	30.4	43.2
Ball/Selecta	Christmas Joy Pink	Pink	34	2	10	15-Oct	15-Nov	30.8	47.9
Ball/Selecta	Christmas Lights	Pink	34	2	10	23-Oct	30-Nov	35.5	47.3
Ball/Selecta	Christmas Wish Pink	Pink	34	2	10	24-Oct	25-Nov	33.6	40.1
Ball/Selecta	Alaska White	White	34	1	16	13-Oct	4-Dec	30.4	44.1
Ball/Selecta	Alpina White	White	34	1	16	21-Oct	>9-Dec	27.6	31.7
Ball/Selecta	Christmas Beauty North Pole	White	34	1	15	12-Oct	2-Dec	29.7	41.3
Ball/Selecta	Christmas Feelings White 14	White	34	1	15	16-Oct	1-Dec	28.1	42.4
Ball/Selecta	Christmas Glory White 18	White	34	1	15	15-Oct	>9-Dec	32.2	47.7
Ball/Selecta	Christmas Joy White	White	34	1	15	15-Oct	23-Nov	28.6	36.1
Ball/Selecta	Christmas Beauty Cinnamon	Specialty	32	2	9	22-Oct	30-Nov	32.8	43.5
Ball/Selecta	Christmas Beauty Marble	Specialty	32	2	9	29-Oct	30-Nov	34.7	47.6
Ball/Selecta	Christmas Beauty Princess	Specialty	32	2	9	28-Oct	6-Dec	33.7	41.8
Ball/Selecta	Christmas Feelings Red Cinnamon	Specialty	34	2	9	21-Oct	30-Nov	28.7	43.8
Ball/Selecta	Marbella	Specialty	34	2	9	25-Oct	28-Nov	28.2	42.8



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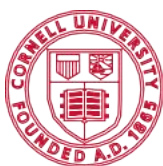
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