



Poinsettia Trials: Red Cultivars

North Carolina State University

Brian E. Whipker, Paul Cockson, Patrick Veazie, & David Logan

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This publication focuses on red 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 1st 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**.

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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





Aries Red

Beekenkamp included ten red cultivars in the trials. Five of the cultivars were new experimental types. The top picks by growers were Leona Red, Robyn Red and PON 127 Experimental.



Astro Red



Blissful Red





Leona Red



PON 100 Red Experimental



PON 122 Red Experimental



PON 126 Red Experimental



PON 127 Red Experimental



PON 131 Red Experimental





Robyn Red



RINEHART POINSETTIAS



Red Experimental 16-678

Rinehart Poinsettias included three cultivars in the trials. Two were white and one was red. The Red Experimental 16-678 had exceptionally strong stems and would be ideal for a retail grower.





Eighteen red entrees were submitted by Dümmen Orange. Southern Belle, Grand Italia, RF 503CB Experimental, and Viking Red were highlighted by growers.



Alta



Bravo Bright Red



Enduring Red





Grand Italia



Premium Red



Prestige Early Red



Prestige Maroon



Prestige Red



Prima Bella





Prima Donna



Prima Red 2.0



Princettia Red



Red Soul



RF503CB Experimental



Solstice Red





Southern Belle



Viking Red



Winter Rose Early Red





Lazzeri is an Italian plant breeder. Lazzeri partnered with both Ball Horticulture/Selecta and Syngenta to submit cultivars. Futura Brilliant Red, Opera and Superba Red were highlighted as top picks by growers.



Allegra Early Red



Allegra Red



Desiderio Red





Futura Brilliant Red



Futura Red



Opera



Serena Red



Superba Red





Christmas Aurora

Selecta/Ball Horticulture had 21 red cultivars in the trials. Two new unique types were introduced. Sky Star had red bracts with a scattering of white. Christmas Mouse had round bracts that was unique and made it stand out. Christmas Bells (SK 159 Experimental) was also one highlighted by growers as one new cultivar of interest.



Christmas Beauty Red



Christmas Bells SK 159 (late planting)





Christmas Bells SK 159 (early planting)



Christmas Cheer



Christmas Eve



Christmas Feelings Merlot



Christmas Feelings Red



Christmas Glory Red





Christmas Joy Red



Christmas Magic



Christmas Morning



Christmas Mouse



Christmas Spirit



Christmas Wish





Noel



SK 167 Experimental



SK 168 Experimental



SK 175 Experimental



SK 176 Experimental



Sky Star



SUNTORY

SUNTORY FLOWERS



Princettia Red

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



Planter containing Princettia Red and Princettia Pure White.





Draco Red

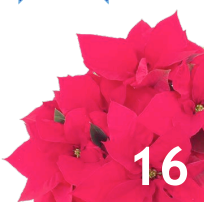
Syngenta had seven red cultivars in the trials. Growers highlighted Lyra and Mirage as their top selections.



Gemma Red



Lyra





Majoris Red



Mirage



Neva



Titan Red



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.



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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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CONTRIBUTORS

Dr. Nora Catlin
Floriculture Specialist
Cornell Cooperative Extension
Suffolk County
nora_catlin@cornell.edu

Dr. Chris Currey
Assistant Professor of Floriculture
Iowa State University
ccurrey@iastate.edu

Dr. Ryan Dickson
Extension Specialist for Greenhouse
Management & Technologies
University of New Hampshire
ryan.dickson@unh.edu

Nick Flax
Commercial Horticulture Educator
Penn State Extension
nzf123@psu.edu

Thomas Ford
Commercial Horticulture Educator
Penn State Extension
taf2@psu.edu

Dan Gilrein
Entomology Specialist
Cornell Cooperative Extension
Suffolk County
dog1@cornell.edu

Dr. Joyce Latimer
Floriculture Extension & Research
Virginia Tech
ilatime@vt.edu

Heidi Lindberg
Floriculture Extension Educator
Michigan State University
wolleage@anr.msu.edu

Dr. Roberto Lopez
Floriculture Extension & Research
Michigan State University
rlopez@msu.edu

Dr. Neil Mattson
Greenhouse Research & Extension
Cornell University
neil_mattson@cornell.edu

Dr. W. Garrett Owen
Floriculture Outreach Specialist
Michigan State University
wgowen@msu.edu

Dr. Rosa E. Raudales
Greenhouse Extension Specialist
University of Connecticut
rosa.raudales@uconn.edu

Dr. Beth Scheckelhoff
Extension Educator - Greenhouse Systems
The Ohio State University
scheckelhoff.11@osu.edu

Dr. Ariana Torres-Bravo
Horticulture/ Ag. Economics
Purdue University
torres2@purdue.edu

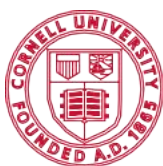
Dr. Brian Whipker
Floriculture Extension & Research
NC State University
bwhipker@ncsu.edu

Dr. Jean Williams-Woodward
Ornamental Extension Plant Pathologist
University of Georgia
jwoodwar@uga.edu

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