

The background of the entire page is a close-up photograph of purple flowers, likely lavender, with a soft, blurred effect. The flowers are in various stages of bloom, showing small, delicate petals and dark centers. The overall color palette is dominated by shades of purple and magenta, with some hints of green from the foliage.

2016

Evaluation

DOW GARDENS
BEDDING PLANTS

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Pictured: Standout Variety, Seed, Celosia, Dragon's Breath

Dow Gardens, a 110-acre botanical garden in Midland, Michigan, annually displays over 250 varieties of annual bedding, vegetable, and herb plants. This report contains a comprehensive evaluation of 213 of those varieties as they performed in 2016. It is our hope that these findings assist local homeowners and landscapers select varieties best suited for Central Michigan growing conditions.

Each year the Dow Gardens uses a variety of annual bedding plants as part of their summer botanical display. This primary source of seasonal color, is evaluated three times throughout the growing season by Floriculturist and Greenhouse Manager Scott Schulteis, and Horticulturist Abbey Claerhout. These evaluations were made on July 13, August 4, and 23, 2016.

The Central Michigan growing season for 2016 transitioned out of a relatively mild winter as compared to the polar vortex years of 2014 and 2015. Spring seemed to be relatively normal through Mid-May when temperatures crept up into summer range. This temperature uptick got things growing quickly even though some drier conditions prevailed. The month of June had an overall temperature average of 75° with little complaint from gardeners except for a slight rain deficit in this part of Michigan. July and August checked in with identical temperature averages for both their highs and lows for the month. This seemed a bit unusual, but overall the 2016 season saw little in the way of extreme temperatures throughout the summer.

Recorded rainfall totals for the summer of 2016 were the lowest they've been over the past several years with a value of only 6.6 inches from May 23 to August 31, 2016. While appearing low in our region, this did not appear to be an overall trend elsewhere, and our lack of precipitation here was offset through supplemental irrigation. Below is a chart representing current and historic temperature and rain data for the growing seasons.

	2016	2015	2014	2013	2012
90°+ days	8	7	1	13	25
80°+ days	60	49	54	45	73
Total Rain	6.6in.	12.9in.	7.04in.	8.29in.	10.20in.

Annuals of both seed grown and vegetatively propagated varieties were planted out into beds between the last week of May and first week of June.

Prior to setting out these annuals, bed preparation consisted of rototilling in a generous portion of fall collected leaf material and a balanced fertilizer (in most locations). Individual horticulturists are responsible for proper planting techniques and care once these annuals leave the greenhouse and are placed in the garden.

This report details the results of the annual bedding plant evaluations in regards to vigor, profusion of bloom, and uniformity of growth habit on a 1-5 scale (1=poor, 5=excellent), and includes plants for the garden's displays as well as the trial beds.

Standout varieties, as evidenced by ratings for 2016, are:

Standout Varieties (Vegetative)

- Alternanthera 'Little Ruby'
- Angelonia 'Archangel Pink'
- Browallia 'Endless Flirtation'
- Cleome 'Seniorita Blanca'
- Cleome 'Seniorita Mi Amor'
- Cleome 'Seniorita Rosalita'
- Coleus 'Campfire'
- Coleus 'Wasabi'
- Colocasia 'Heart of the Jungle'
- Cuphea 'Vermillionaire'
- Cyperus 'King Tut'
- Lantana 'Lucky Lavender'
- Pennisetum P. 'Purple Prince'
- Perilla 'Magellanica'
- Plectranthus 'Nicoletta'
- Salvia 'Ablazin Purple'
- Sunpatiens 'Compact Coral'
- Sunpatiens 'Spreading Scarlet Red'
- Verbena 'Meteor Shower'

Standout Varieties (Seed)

- Angelonia 'Serenita Purple'
- Celosia 'Dragon's Breath'
- Fib. Begonia 'Big Red w/ Bronze Leaf'
- Gomphrena 'Qis Red'
- Orn Pepper 'Black Hawk'
- Orn Pepper 'Sedona Sun'
- Ricinus 'Red Giant'
- Salvia 'Lighthouse Red'
- Shisho (Perilla) 'Red'
- Verbena Bon. 'Buenos Aires'

Respectfully Submitted, Respectfully Submitted,
 Abbey Claerhout, Scott A. Schultheis
 Horticulturist Greenhouse Manager

We trust that you find this report helpful and we invite your questions or comments at info@dowgardens.org or (989) 631-2677.

2016

	MAY			JUNE			JULY			AUGUST		
	High	Low	Rain	High	Low	Rain	High	Low	Rain	High	Low	Rain
1				70	54	.01	71	48	.21	80	53	0
2				78	50	0	79	43	0	84	57	0
3				79	47	0	82	46	0	89	62	0
4				81	52	0	82	49	0	90	63	0
5				70	58	.39	85	62	0	89	65	0
6				76	53	0	86	62	0	85	56	0
7				63	46	.01	90	63	.68	81	53	0
8				67	40	0	86	62	.11	81	52	0
9				74	38	0	80	60	0	86	52	0
10				83	47	0	83	54	0	91	59	0
11				90	65	.03	83	64	0	82	64	0
12				76	45	0	91	69	.2	85	72	.07
13				65	44	0	76	85	.02	85	70	.28
14				73	53	0	84	65	0	81	63	.02
15				76	55	.41	74	61	0	81	59	.01
16				74	56	.2	77	52	0	83	68	1.77
17				84	49	0	86	52	0	85	63	.08
18				89	52	0	85	66	0	84	59	0
19				88	58	0	80	57	0	84	66	0
20				88	58	0	88	54	0	81	64	.79
21				79	48	0	84	67	.21	70	56	.05
22				77	48	0	93	68	0	77	50	0
23	79	35	0	73	51	0	91	62	0	80	52	0
24	85	43	0	82	45	0	83	69	.22	71	62	.04
25	85	55	0	88	50	0	87	64	0	74	65	.03
26	84	59	0	85	68	0.01	87	57	0	81	56	0
27	85	56	.22	86	62	0	88	61	.08	74	57	.32
28	84	63	0	71	49	0	79	63	.03	80	53	.01
29	83	65	0	79	41	0	75	63	.01	82	62	0
30	82	55	0	82	43	0	73	63	.07	83	62	0
31	76	48	0				70	60	.03	76	57	0
AVERAGE	82	58		75	51		83	60		83		
TOTAL			.02			1.1			1.9			3.5

2016 ANNUAL EVALUATIONS - LANDSCAPE

Evaluation #1 7/13/16 Evaluation #2 8/4/16 Evaluation #3 8/23/16

SOURCE (S or V)	COMMON NAME 'Variety'	Color	Height	Vigor	Profusion	Uniformity	Comment
PW (V)	Acalypha 'Fire Tail Chenille'	cherry red	trailing in baskets	4 5 5	4 5 5	4 5 5	
PW (V)	Ageratum 'Artist Purple'	dark purple	7"	5 4 2	5 5 3	4 5 4	late senescence
Ball (S)	Ageratum 'Hightide White'	white	22"	5 5 4	4 5 5	4 5 5	
Raker (V)	Alternanthera 'Little Ruby'	garnet	12"	5 5 5	— — —	5 5 5	foliage only
Ball (S)	Alternanthera 'Purple Knight'	dark purple	30"	2 4 5	— — —	2 4 4	foliage only herbivore damage
Ball (V)	Alternanthera 'Red Threads'	purple red	13"	4 4 4	— — —	4 4 4	foliage only
Ball (S)	Alyssum 'Clear Crystal Purple Shades'	purple shades	6"	4 4 3	4 4 4	4 4 3	
BakeCrk (S)	Amaranth 'Opopeo'	rose maroon	72"	5 5 5	2 5 5	3 5 5	lodging with rain
Ball (V)	Angelonia 'Archangel Pink'	lavender pink	14"	5 5 5	5 5 5	5 5 5	
Ball (V)	Angelonia 'Archangel' Purple	medium purple	20"	5 5 4	5 5 3	5 5 5	
Ball (S)	Angelonia 'Blue Sky'	lavender blue	12"	4 5 5	4 5 5	4 5 5	
Ball (S)	Angelonia 'Serenita Purple'	medium purple	18"	5 5 5	5 5 5	5 5 5	
Ball (S)	Begonia 'Bossa Nova Red'	scarlet red	trailing container	4 5 5	4 5 5	4 5 5	nice container habit

				3	3	3	
				5	5	5	
Ball (S)	Begonia 'Encore IV Pink'	soft baby pink	14"	5	5	5	
				3	—	4	possible propagation delay
				3	—	4	
Ter.NovaV	Begonia 'Garden Angel Blush'	—	10"	3	—	3	
				2	—	2	*location
				3	—	3	
Ball (S)	Begonia 'Gryphon'	—	23"	3	—	3	
				5	5	5	possible heat stall
				4	3	5	
PW (V)	Bidens 'Goldilocks Rocks'	bright yellow	10"	4	2	4	
				5	5	5	
				5	5	5	
PW (V)	Browallia 'Endless Flirtation'	crisp white	15"	5	5	5	
				4	4	4	
				5	4	5	
PW (V)	Browallia 'Illumination'	purple blue	13"	5	5	4	
				2	—	2	foliage only
				3	—	3	
Vandg(V)	Caladium 'Candidum'	—	16"	5	—	5	
				3	—	4	foliage only
				3	—	3	
Vandg(V)	Caladium 'Carolyn Whorton'	—	21"	5	—	5	
				2	—	3	foliage only
				3	—	3	
Vandg(V)	Caladium 'Freida Hemple'	—	16"	4	—	4	
				1	—	1	foliage only
				3	—	3	
Vandg(V)	Caladium 'Postman Joyner'	—	19"	3	—	3	
				3	—	3	foliage only
				3	—	3	
Vandg(V)	Caladium 'Red Flash'	—	21"	5	—	4	
				4	2	4	
				5	5	5	
Ball (S)	Canna 'Cannova Bronze Scarlet'	scarlet red	60"	5	5	5	
				3	1	4	
				5	3	4	
Ball (S)	Canna 'Cannova' Red Shades	coral red	45"	4	4	4	
				5	2	4	
				5	5	5	
AG3 (V)	Canna 'Erebus' (Longwood Pink)	coral pink	84"	5	5	5	
				4	0	4	
				4	0	5	
AG3 (V)	Canna 'Intrigue'	—	48"	4	0	5	

Johnny(S)	Cardoon 'Porto Spineless'		36"	5 5 5	— — —	4 5 5	
ECG (v)	Carex 'Fire Fox'		30"	4 4 4	— — —	4 5 4	foliage only
Ball (S)	Celosia 'Arrabona Red'		20"	4 5 5	4 5 5	5 5 5	
Ball (S)	Celosia 'Dragon's Breath'		28"	5 5 5	0 0 0	5 5 5	ground cover habit
Ball (S)	Celosia 'First Flame Orange'	dusty salmon	8"	2 2 1	2 2 1	3 2 1	shaded location
Ball (S)	Celosia 'First Flame Red'	dusty cherry	12"	2 2 3	3 2 3	3 2 3	shaded location
Ball (S)	Celosia 'First Flame Yellow'	dusty gold	11"	3 2 3	3 2 3	3 2 3	shaded location
Ball (S)	Cineria 'Jester Blue Bicolor'	blue with white	4"	1 1 1	1 1 1	1 1 1	
PW (V)	Cleome 'Senorita Blanca IMP'	silver white	42"	5 5 5	5 5 5	5 5 5	
PW (V)	Cleome 'Senorita Mi Amor'	soft pink	42"	5 5 5	5 5 5	5 5 5	
PW (V)	Cleome 'Senorita Rosalita'	medium purple	42"	5 5 5	5 5 5	5 5 5	
Ball (V)	Coleus 'Campfire'	burnt sienna	26"	5 5 5	— — —	5 5 5	foliage color
PW (V)	Coleus 'Colorblaze Dark Star'		23"	4 5 5	— — —	5 5 5	
Ball (V)	Coleus 'Electric Lime'		21"	4 5 4	— — —	4 5 4	
Ball (V)	Coleus 'Redhead'		28"	5 5 5	— — —	4 4 4	some green leaf reversion

Ter.NovaV	Coleus 'Valentine'			4 5 5	- - -	4 5 4	
Ball (V)	Coleus 'Wasabi'		33"	5 5 5	- - -	5 5 5	
PW (V)	Colocasia 'Coffee Cups'		48"	4 5 5	- - -	4 5 5	
PW (V)	Colocasia 'Heart of the Jungle'		72"	5 5 5	- - -	5 5 5	
PW (V)	Colocasia 'Illustris'		53"	4 4 5	- - -	5 5 5	
PW (V)	Cuphea 'Vermillionaire'	scarlet orange	24"	5 5 5	5 5 5	5 5 5	
PW (V)	Cyperus 'Baby Tut'		36"	5 5 5	- - -	4 5 5	
PW (V)	Cyperus 'King Tut'		84"	5 5 5	- - -	5 5 5	
Ball (S)	Dusty Miller 'Silverdust'	13"	13"	2 3 3	- - -	4 4 3	outcompeted and location
Ball (S)	Echiacea 'Pow Wow Wild Berry'	dusty rasp- berry	24"	3 4 4	1 2 3	3 4 3	
Johnny(S)	Eucalyptus 'Silver Drop'		17"	2 2 3	- - -	3 3 3	
Ball (V)	Euphorbia 'Breathless'	white	17"	4 4 5	4 5 4	4 4 4	
Johnny(S)	Fennel, Bronze	dusty yellow	56"	4 5 5	- - 3	3 5 4	
Ball (S)	Fibrous Begonia 'Big Red w/ B/L'	light red	18"	5 5 5	5 5 5	5 5 5	
Ball (S)	Fibrous Begonia 'Whopper Red w/ G/L'	medium red	22"	3 5 5	3 5 5	3 5 5	

				4 5 5	4 5 5	4 5 5	
Ball (S)	Fibrous Begonia 'Whopper Rose w/ G/L'	rose pink	22"				
				5 5 5	— — —	4 5 5	
Ball (S)	Flower Kale 'Peacock White'		27"				
				5 3 X	5 4 X	5 4 X	out compet- ed 8/4
Ball (V)	Gaura 'Siskiyou Pink'	blushing pink					
				5 5 5	0 2 3	4 5 5	
Ball (S)	Gomphocarpus 'Hairy Balls'	creamy white	84"				
				5 5 5	5 5 5	4 5 5	
PW (V)	Gomphrena 'Little Forest Plum'	magenta	18"				
				5 5 5	5 5 5	5 5 5	
Johnny(S)	Gomphrena 'Qis Red'	scarlet red	33"				
				4 4 4	— — —	5 5 4	
PW (V)	Helichrysum 'Icicles'		10"				
				4 5 4	— — —	4 5 4	sprawling - foliage only
PW (V)	Helichrysum 'Lemon Licorice'	silver lemon	10"				
				4 4 4	5 4 4	4 4 4	
PW (V)	Heliotrope 'Atlantis'	light purple	12"				
				4 5 5	— — —	4 5 5	very compact
Ball (V)	Hibiscus 'Little Zen'		20"				
				4 5 5	— — —	5 4 4	stake
Ball (S)	Hibiscus 'Mahogany Splendor'		60"				
				4 4 4	— — —	4 4 4	trailing sprawler
Ball (S)	Iresine 'Purple Lady'		16"				
				4 5 4	— — —	5 5 5	
PW (V)	Juncus 'Blue Mohawk'		24"				
				3 5 5	4 5 5	3 5 5	very compact habit
PW (V)	Lantana 'Bandana Lemon Zest'	lemon cream to yellow	12"				
				5 5 5	4 5 4	5 5 5	
PW (V)	Lantana 'Bandana Red'	red to gold	13"				

				5	3	4	
Ball (V)	Lantana 'Landmark Blaze'	magenta to yellow	46"	5	3	4	
				5	3	5	
Ball (V)	Lantana 'Landmark Citrus'	yellow to salmon orange	23"	5	4	5	
				5	5	5	
Ball (V)	Lantana 'Landmark Gold'	gold to yellow	24"	4	4	5	
				5	4	5	
				5	5	5	
Ball (V)	Lantana 'Landmark Sunrise Rose'	violet red to gold	23"	5	5	5	
				5	5	4	
Ball (V)	Lantana 'Landmark Yellow'	medium yellow	33"	4	3	4	shaded location
				4	3	5	
				4	3	5	
Ball (V)	Lantana 'Lucky Lavender'	soft yellow to pink	23"	5	5	5	
				5	5	5	
				5	5	5	
Ball (V)	Lantana 'Lucky Pot of Gold'	yellow gold	18"	4	4	4	
				4	4	5	
				4	4	5	
Ball (V)	Lantana 'Lucky Sunrise Rose'	rose to gold	13"	5	5	5	
				5	5	5	
PW (V)	Lantana 'Luscious Marmalade'	tangerine orange	18"	3	4	4	
				3	5	5	
				5	5	5	
Grmnia (S)	Leonotis 'Staircase'	orange	108"	5	0	4	
				5	1	5	
				5	1	4	
Ball (S)	Lobelia 'Fountain Mix'	mix	9"	4	3	5	stalled flowering senescence
				2	3	3	
				1	1	1	
Ball (S)	Lobelia 'Riviera Sky Blue'	medium blue	6"	5	5	5	
				4	5	4	
				2	1	3	
PW (V)	Lobularia 'Snow Princess'	white	8"	5	4	5	
				5	5	5	
				5	5	5	
Ball (S)	Marigold African 'Garden Joy Gold'	bright gold	28"	5	3	4	
				?	?	?	
				5	4	4	
Ball (S)	Marigold African 'Garden Joy Mix'	mix	23"	5	3	4	
				5	4	4	
				5	4	4	

Ball (S)	Marigold African 'Garden Joy Orange'	bright orange	24"	5 5 5	3 4 4	5 5 4	lodging 8/23 hidden blooms
Ball (S)	Marigold African 'Garden Joy Yellow'	bright yellow	29"	5 5 5	3 4 4	4 5 4	late lodging
Ball (S)	Marigold African 'Taishan Gold'	bright gold	12"	5 5 3	5 5 3	5 5 4	
Ball (S)	Marigold African 'Taishan Orange'	bright orange	15"	5 5 4	5 5 4	5 5 4	
Ball (S)	Marigold African 'Taishan Yellow'	bright yellow	12"	5 5 3	5 5 3	5 5 4	late senes- cence
Ball (S)	Mexican Feather Grass 'Ponytails'	-	5"	5 3 2	- - -	4 3 3	location out competed
Ball (S)	Morning Glory 'Happy Hour Rose'	-	small vine	2 2 3	0 0 0	2 3 3	trellis re- quired
Ball (S)	Morning Glory 'Heavenly Blue'	-	medium vine	5 5 5	0 0 0	5 5 5	trellis re- quired
Ball (V)	NG Impatiens 'Celebration Purple'	purple pink	11"	5 5 5	4 4 2	4 5 4	
Ball (S)	Nicotiana 'Starmaker Deep Lime'	creamy lime	15"	4 5 4	4 5 5	4 5 5	
Ball (S)	Orn. Millet 'Jade Princess'	dark ma- roon	30"	4 5 5	x 4 5	5 5 5	
Ball (S)	Orn. Millet 'Purple Majesty'	dark ma- roon	18"	1 1 1	1 1 1	1 1 1	
BakeCrk (V)	Passion Flower 'Possum Purple'	-	vine	4 5 5	- 0 0	4 5 5	no flowers as of 8/23
ECG (v)	Pennisetum purpureum 'Prince'	dark ma- roon	84"	5 5 5	- - -	5 5 5	very vigorous foliage only grass
ECG (v)	Pennisetum 'Rubrum' (Purple Fountain Grass)	tan to ma- roon	48"	5 5 5	3 5 5	4 5 5	

PW (V)	Pennisetum 'Sky Rocket'	dusty lime	60"	4 5 5	4 5 5	4 5 5	
PW (V)	Pennisetum 'Vertigo'	dark ma- roon	60"	4 5 5	— — —	4 5 5	foliage only grass
PW (V)	Penta 'Butterfly Deep Pink'	light rose	28"	5 5 5	4 4 4	5 5 5	
PW (V)	Penta 'Butterfly Deep Rose'	rose red	26"	5 5 5	5 4 4	4 5 5	
PW (V)	Perilla 'Magellanica'	—	36"	5 5 5	— — —	5 5 5	
Ball (V)	Perilla 'Magilla'	—	36"	4 5 4	— — —	3 5 4	
Ball (S)	Petunia 'Madness Red'	bright red	11"	4 4 3	4 4 3	4 4 3	heavily dis- eased 8/23
Ball (S)	Petunia 'Madness Royal'	dark purple shades	14"	5 5 4	4 5 4	5 5 4	
Ball (S)	Petunia 'Madness Waterfall Mix'	mix	12"	5 5 4	5 5 4	5 5 4	
Ball (S)	Petunia 'Madness White'	white	11"	5 4 3	5 4 3	5 4 3	done disease
Ball (V)	Petunia 'Suncatcher' Red	bright red	11"	4 5 4	5 5 4	4 5 4	
Ball (V)	Petunia 'Suncatcher White'	white	—	3 3 0	5 3 0	4 3 0	dead 8/24
PW (V)	Petunia 'Supertunia Limoncello'	creamy yellow	12"	5 4 2	5 4 2	5 4 4	
PW (V)	Pineapple Sage 'Golden Delicious'	—	38"	5 5 5	0 0 0	5 5 5	no flowers as of 8/24
PW (V)	Plectranthus 'Cerveza-n-Lime'	—	19"	4 5 5	— — —	5 5 5	

				4	–	4	
				5	–	5	
Ball (V)	Plectranthus 'Nico'		13"	5	–	5	
				5	–	5	
				5	–	5	
Ball (V)	Plectranthus 'Nicoletta'		16"	5	–	5	foliage only
				3	3	3	
				3	2	3	
Ball (S)	Portulaca 'Happy Hour Deep Red'	deep red	6"	1	2	4	poor location
				5	5	5	
				5	5	5	
PW (V)	Salvia 'Ablazin Purple'	very dark purple	39"	5	5	5	
				4	5	5	
				5	5	5	
PW (V)	Salvia 'Ablazin Tabasco'	scarlet orange	38"	5	5	5	
				4	3	3	
				5	4	5	
Ball (V)	Salvia 'Black and Bloom'	blue purple	48"	5	4	4	
				5	4	5	
				5	2	5	
PW (V)	Salvia 'Black and Blue'	blue purple	34"	5	4	5	
				3	3	4	
				4	4	5	
Johnny(S)	Salvia 'Gruppenblau'	medium blue	20"	4	4	4	
				5	5	5	
				5	5	5	
Ball (S)	Salvia 'Lighthouse Red'	scarlet red	39"	5	5	5	
				3	1	3	
				3	2	3	
Ball (S)	Salvia 'Patio Sky Blue'	light blue	16"	3	2	3	
				5	–	5	
				5	–	5	
Johnny(S)	Shiso (Perilla) 'Red'	purple black	48"	5	–	5	foliage only
				4	0	3	
				5	2	4	
Johnny(S)	Sunflower 'Holiday'	light yellow	60"	4	3	4	
				5	5	5	
				5	5	5	
Ball (V)	SunPatiens 'Compact Coral Pink'	salmon pink shades	18"	5	5	5	
				5	4	4	
				5	5	5	
Ball (V)	SunPatiens 'Compact Hot Coral'	hot orange coral	18"	5	5	5	
				4	4	4	
				4	5	5	
PW (V)	SunPatiens 'Compact Royal Magenta'	magenta	21"	5	5	5	

				4 5 5	5 5 5	3 5 5	
PW (V)	SunPatiens 'Compact White Improved'	clear white	18"				
				3 5 -	4 4 -	3 5 -	disease loss 8/23
Ball (V)	SunPatiens 'Spreading Clear White'	clear white					
				3 3 4	3 3 4	3 3 4	early disease
PW (V)	SunPatiens 'Spreading Lavender'	purple pink	14"				
				5 5 5	5 5 5	5 5 5	fades
Ball (V)	SunPatiens 'Spreading Scarlet Red'	cherry scarlet	20"				
				5 5 5	4 3 5	5 4 5	
Ball (V)	SunPatiens 'Spreading Trop. Orange'	electric orange	26"				
				2 2 5	0 2 2	3 3 4	habit trailing
Ball (S)	Thunbergia 'White with Black Eye'	white with eye	60"				
				4 3 3	4 4 3	5 5 4	
Ball (V)	Verbena 'Aztec Red Velvet'	bright red	14"				
				5 5 5	5 5 5	5 5 5	
Ball (S)	Verbena bonariensis 'Buenos Aires'	purple lavender	60"				
				5 5 5	4 4 4	5 5 4	
Ball (V)	Verbena 'Endurascape Hot Pink'	hot pink	16"				
				5 5 4	4 4 2	5 5 3	
Ball (V)	Verbena 'Endurascape Lavender'	lavender purple	13"				
				4 5 3	4 4 3	4 5 4	insect damage 8/23
Ball (V)	Verbena 'Endurascape White Blush'	white blushing pink	14"				
				5 5 5	4 5 5	4 5 5	
Ball (S)	Zinnia angust. 'Star Gold'	golden orange	16"				
				5 5 4	4 5 4	5 5 4	some lodging 8/24
Ball (S)	Zinnia 'Benary Giant Carmine Rose'	used in mix	54"				
				5 5 4	4 5 4	5 5 4	
Ball (S)	Zinnia 'Benary Giant Golden Yellow'	used in mix	54"				
				4 5 4	4 5 4	4 5 4	
Ball (S)	Zinnia 'Benary Giant Lime'	used in mix	54"				

				5	4	5	
				5	5	5	
Ball (S)	Zinnia 'Benary Giant Orange'	used in mix	54"	4	4	4	
				5	4	5	
				5	5	5	
Ball (S)	Zinnia 'Benary Giant Scarlet'	used in mix	54"	4	4	4	
				5	4	5	
				5	5	5	
Ball (S)	Zinnia 'Benary Giant White'	used in mix	54"	4	4	4	

2016 ANNUAL EVALUATIONS - TRIALS

Evaluation #1 7/13/16 Evaluation #2 8/4/16 Evaluation #3 8/23/16

SOURCE (S or V)	COMMON NAME 'Variety'	Color	Height	Vigor	Profusion	Uniformity	Comment
Raker (V)	Acalypha 'Copper Leaf'			3 4	— — —	5 4	foliage
Ball (S)	Alternanthera 'Purple Prince'		11"	4 5 5	— — —	5 5 5	foliage
Johnny's (S)	Amми 'Dara'	dusty white	48"	5 5 5	1 4 5	4 5 5	if not used for cutting, may need
Ball (S)	Begonia 'Megawatt Pink Bronze Leaf'	bright pink	16"	3 4 5	3 4 5	3 4 5	
Ball (S)	Begonia 'Megawatt Red Green Leaf'	bright red	5"	3 5 5	2 4 4	3 5 5	
Ball (S)	Begonia 'Megawatt Rose Green Leaf'	red to pink	15"	3 4 4	3 4 5	3 4 4	
Ball (S)	Canna 'Cannova Mango'	mango orange	42"	4 5 5	0 4 5	5 5 5	
Ball (S)	Canna 'Cannova Orange Shades'	medium orange	39"	4 5 5	0 4 4	3 5 5	
AAS (S)	Canna 'South Pacific Scarlet' F1	scarlet orange	43"	4 5 5	1 3 4	4 5 4	
Germania (S)	Celosia 'Dragons Breath'		20"	5 5 5	0 0 0	5 5 5	not flowering at 8/23 - ground cover
Germania (S)	Celosia 'Forest Fire'	rose scarlet	40"	3 5 5	2 3 5	2 4 4	flower shape inconsistent
Ball (S)	Coleus 'Premium Sun Pineapple Surprise'		20"	5 4 5	— — —	5 4 5	foliage
PAS (S)	Coreopsis 'Sun Kiss'	yellow with eye	16"	4 5 5	2 3 3	5 4 5	

AAS (S)	Dianthus 'Jolt Pink' F1	hot pink	18"	5 5 5	1 5 5	5 5 5	
AAS (S)	Echinacea 'Cheyenne Spirit'	mix	25"	3 4 4	2 2 3	3 3 4	
Ball (V)	Erysimum 'Apricot Twist'	apricot orange	24"	4 5 5	1 5 5	3 5 5	
PAS (S)	Gaillardia 'Mesa Bright Bicolor'	red to gold	12"	4 4 3	2 3 3	4 4 4	
PAS (S)	Gaillardia 'Mesa Peach'	peachy yellow	11"	3 3 4	1 4 4	3 4 4	
PAS (S)	Gaillardia 'Mesa Red'	dusty red	11"	4 4 3	2 3 4	4 4 4	
PAS (S)	Gaillardia 'Mesa Yellow'	medium yellow	13"	4 3 3	1 3 3	3 4 3	
AAS (S)	Gaura 'Sparkle White'	blush white	18"	3 5 4	3 5 4	3 5 5	
AAS (S)	Geranium 'Pinto Premium White to Rose' F1	blush pink to rose	14"	3 4 5	3 3 4	3 4 5	
AAS (V)	Interspecific Impatiens 'Big Bounce Pink Flame'	pink with flame	13"	3 1 4	2 1 2	4 1 3	location
Germania (S)	Kale 'Black Magic'	stone blue	22"	5 5 5	— — —	4 5 5	foliage only unique color and habit
Germania (S)	Kale 'Scarlet'	slate purple	36"	5 5 5	— — —	4 5 4	foliage only
Ball (S)	Marigold 'Taishan Gold IMP.'	bright gold	16"	4 5 5	4 5 5	4 5 4	
Ball (S)	Marigold 'Taishan Orange'	bright orange	16"	5 5 5	4 5 5	5 5 5	
Ball (S)	Marigold 'Taishan Yellow'	bright yellow	15"	5 4 5	4 5 5	5 4 5	

				2 2 3	2 2 3	2 2 3	eaten by herbivores
Johnny's (S)	Millet 'Highlander'	pea green	20"				
				3 3 4	1 3 3	4 4 3	eaten by herbivores
Johnny's (S)	Millet 'Limelight Spray'	pea green	20"				
				2 1 2	4 1 2	4 1 2	location
AAS (V)	NG Impatiens 'Florific Sweet Orange' F1	salmon pink to flame	5"				
				5 5 5	- - -	5 5 5	
AAS (S)	Ornamental Pepper 'Black Hawk'		20"				
				4 5 5	- - -	4 5 5	
AAS (S)	Ornamental Pepper 'Black Olive'		24"				
				5 5 5	x - -	5 5 4	
AAS (S)	Ornamental Pepper 'NuMex Easter'		8"				
				5 5 5	- - -	5 5 5	fruit starts bright yellow - heavy fruit
Ball (S)	Ornamental Pepper 'Sedona Sun'		11"				
				3 4 3	1 4 2	3 4 3	
AAS (S)	Osteospermum 'Akila Daisy White' F1	bright white	10"				
				1 2 3	1 3 4	1 2 3	
Ball (S)	Pansy 'Cool Wave Blueberry Swirl IMP.'	light yellow with lavender	5"				
				2 3 3	3 3 4	2 3 4	
Ball (S)	Pansy 'Matrix Denim'	dark purple	6"				
				3 4 5	3 4 4	3 3 5	
Ball (S)	Pansy 'Spring Matrix Beaconsfield'	purple, lavender with white	8"				
				2 3 5	4 5 4	3 5 5	
AAS (S)	Petunia 'African Sunset' F1	deep salmon	10"				
				1 2 2	3 3 3	2 4 3	
Ball (S)	Petunia 'Expresso Frappe Rose'	bright violet	10"				
				4 5 5	4 5 5	4 5 5	
AAS (S)	Petunia 'Tidal Wave Red Velour' F1	merlot red	20"				
				1 3 4	2 4 4	3 4 4	
AAS (S)	Petunia 'Trilogy Red' F1	deep red	7"				

Germania (S)	Ricinus 'Red Giant'	dark maroon	72"	5 5 5	— — —	5 5 5	controlled habit
Ball (V)	Rudbeckia 'Gold Rush'	gold with rust eye	28"	4 5 5	3 5 5	3 3 4	
AAS (S)	Salvia 'Summer Jewel Lavender'	dusty lavender	23"	3 4 4	3 5 4	3 4 5	
AAS (S)	Salvia 'Summer Jewel Pink'	coral pink	21"	4 5 4	4 5 4	4 5 5	
AAS (S)	Salvia 'Summer Jewel White'	white	25"	4 5 5	3 5 4	4 5 5	
AAS (S)	Sunflower 'Suntastic Yellow w/ Black Center' F1	yellow with dark center	20"	5 5 4	3 4 3	5 5 4	good flowering - done by August 23
AAS (V)	SunPatiens 'Spreading Shell Pink'	medium pink	8"	3 4 4	1 2 4	4 4 4	
PW (V)	Verbena 'Meteor Showers'	lavender purple	24"	5 5 5	5 5 5	5 5 5	
Ball (S)	Vinca 'Titan Really Red'	cherry red	14"	4 4 5	3 4 4	4 5 4	
Ball (S)	Viola 'Sobert XP Beaconsfield IMP.'	plum to white	8"	4 5 5	4 5 5	4 4 5	
Ball (S)	Viola 'Sorbet XP Yellow Pink Jump Up'	yellow to violet	6"	3 4 4	3 4 4	3 4 4	
Ball (S)	Zinnia 'Double Zahara XL Fire IMP.'	bright orange	24"	4 5 5	2 4 5	3 4 5	
Ball (S)	Zinnia 'Double Zahara Brilliant Mix'	mix	18"	4 5 4	2 4 5	3 4 5	
Ball (S)	Zinnia 'Double Zahara XL Pink'	dark pink	27"	5 5 4	3 4 4	5 5 4	
Ball (S)	Zinnia 'Double Zahara XL Yellow'	bright yellow	20"	4 5 4	2 4 4	4 5 5	

AAS (S)	Zinnia 'Profusion Double Deep Salmon'	dark salmon	17"	4 5 4	2 3 4	4 3 4	
AAS (S)	Zinnia 'Profusion Double Hot Cherry'	bright cherry	17"	5 5 5	3 4 5	5 4 4	
Ball (S)	Zinnia 'Zahara XL White'	white	17"	5 5 4	4 3 3	5 5 5	