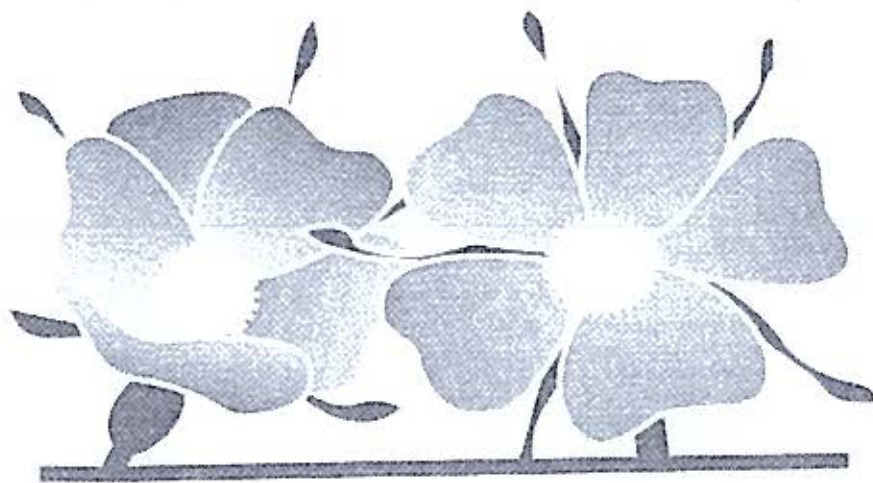
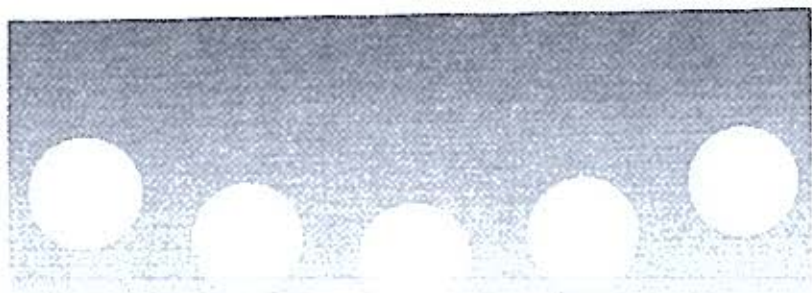


Annual Flower Evaluations 2000



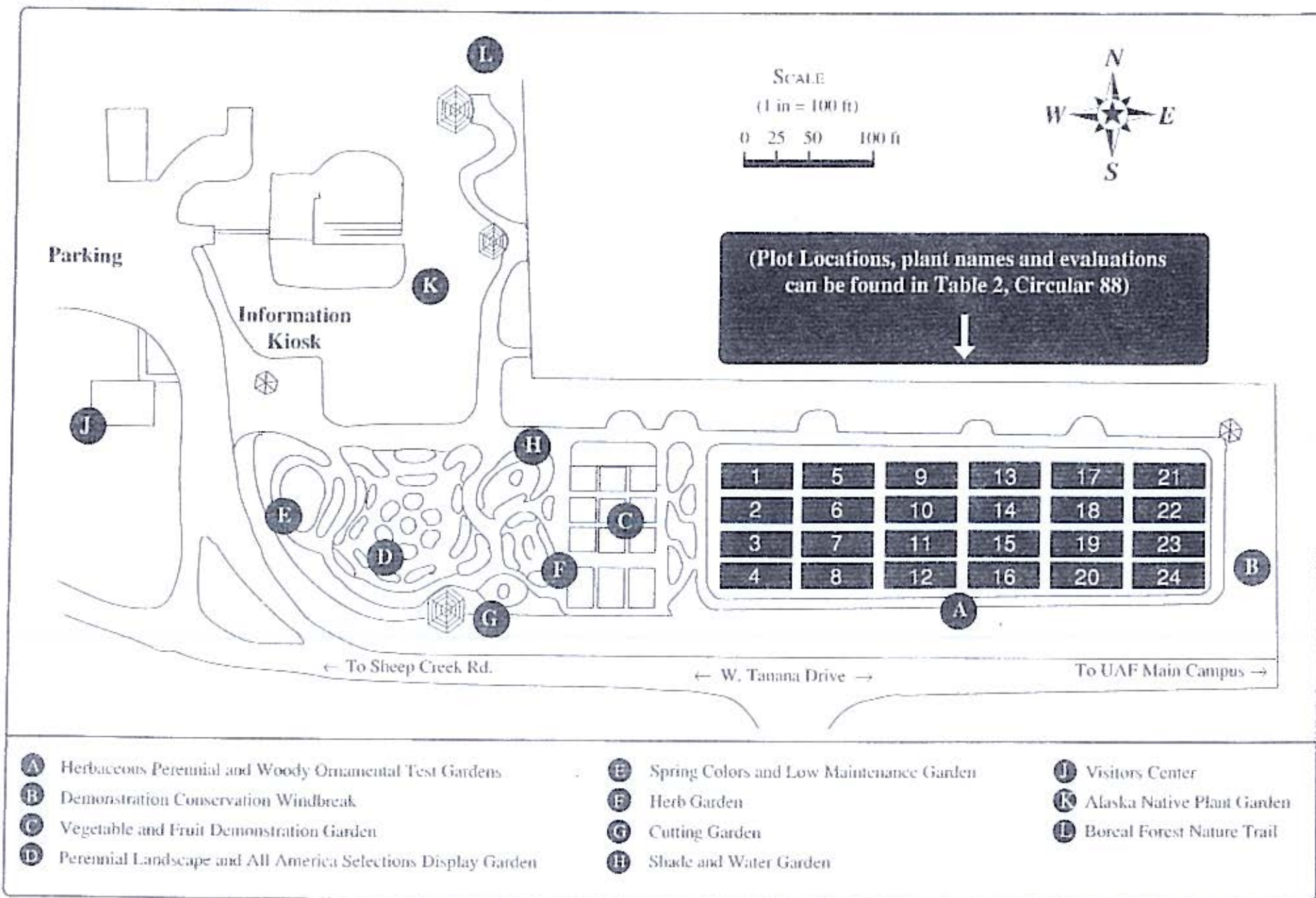
Georgeson Botanical Garden

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Map of the Georgeson Botanical Garden.



Introduction

The annual flower trials were planted from 30 May through 2 June, 2000 in the Perennial Landscape and All America Selections Display Garden of the Georgeson Botanical Garden (64°51'N, 147°52'W). Fairbanks silt loam soil was fertilized with 10-20-20S (4 lbs per 100 sq feet; 195 g per sq meter) on 28 May. With the exception of dahlias, all flowers were grown as seedling transplants, and were hardened off outdoors for one week prior to transplanting. Tuberos roots of dahlias were planted in containers five weeks prior to transplanting and were hardened off.

All cultivars were planted according to recommended commercial spacing guidelines in unreplicated beds. Plant numbers varied according to plot size. The granular herbicide, Preen® (Trifluralin), was applied on 20 June to all plots. Plots were irrigated as needed throughout the summer. A fungicide treatment (Topsin M®, Thiophanate-methyl) was applied on 20 and 21 July to inhibit the growth of *Sclerotinia cottony* rot.

Plot evaluations began immediately after planting and continued weekly through September. They consisted of flowering dates and occurrence of diseases, insect pests, seed pods, off-type plants and other deformities. From 25 July to 10 August, each cultivar was

measured for plant height and flower size, rated for performance of flowers and foliage, and evaluated for fragrance and potential as cut flowers or in dried arrangements. Frost tolerance was evaluated on 19 September following a hard frost on 16 September (26.9°F, -2.7°C).

Weather data are compiled annually from a U.S. Weather Service station, elevation 475ft (145m), located approximately 350ft (107m) west of the Garden. The last spring frost was 29 May (31°F, -0.5°C). The growing season was fairly typical for June and July, but August was very cold and cloudy (Table 1). The degree day accumulation was the third lowest for the past ten years in Fairbanks at 2943 and significantly colder than the previous ten-year average of 3234 degree days. The ten-year average frost free season is 102 days compared to 124 days for 2000. Despite the long season at the Garden, growers in lowlying areas around Fairbanks experienced frost as early as mid July, and many warm season vegetable crops such as sweet corn and peppers did not mature. Flowers grew well at the Garden nearly all summer, but August was so cold and damp, it was hard to gather enough enthusiasm to enjoy them. Fairbanksans complained about the rain, but total rainfall was not atypical. The cold, cloudy weather made it seem like the rain would never quit.

	May	June	July	August	September
Average daily max. °F	55	73	69	60	50
Monthly high temp. °F	64	83	81	79	56
Average daily min. °F	33	45	48	43	32
Monthly low temp. °F	21	39	37	35	16
Rainfall (inches)	0.81	0.92	2.03	3.33	1.46
Last Spring frost	15 May				
First Fall frost	16 September				
Frost free days	124				
Thaw degree days	2943				

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period ²																
			min	max	min	max	Jun	Jul			Aug			Sep									
Ageratum	Blue Bouquet	lavender blue	19	31	.25	.25		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Ageratum	Blue Mink	powder blue	6	11	.25	.5		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Ageratum	Red Sea	purplish lavender	10	22	.25	.25			Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Ageratum	Red Top	burgundy buds, reddish purple flowers	14	24	1.0	1.5		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Ageratum	Southern Cross	powder blue	7	12	.25	.25		Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Ageratum	Weisser Schnitt	white	10	24	.25	.25			Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Ageratum (Lonas)	Goldrush	gold	6	9	1	1.75		Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Alyssum	Aphrodite Mix	purple	3	5	.25	.25	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Alyssum	Carpet of Snow	white	3	6	.25	.25	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Alyssum	Easter Basket	white	3	3	.25	.25	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Alyssum	New Apricot	apricot	3	5	.25	.25	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Amaranthus	Elephant Head	dark red	13	19	3 x 1	11 x 3		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Amaranthus	Pygmy Torch	red	10	14	3 x 1	6 x 2	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☆						
Asclepias	Red Butterfly	orange and yellow	9	19	.5	.5			Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Aster	Pompon Splendid Mixed	rose, purple, purple with white centers	21	30	1.5	2.5					Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Aster	Riviera Mixed	purple, pink, rose, lavender, white, yellow	21	26	2.5	3.25				☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Aster, Annual	Single California Giant Finest Mixed	pink, purple with yellow centers	16	30	3	4				Y	Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Aster, Annual	Tiger Paws Mixed	red, purple, burgundy, pink, yellow, white	18	22	2.5	5				Y	Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Bidens	Golden Goddess	yellow	16	35	1.75	2	Y	Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Brachycome	Bravo Formula Mix	blue, white, purple, pale blue with black or yellow centers	10	14	0.75	1.5		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

*sizes with an x like 12x3 indicates a spike flower type with the height x width.

¹Y indicates start of bloom, ☆ indicates partial bloom, and ⊗ indicates full bloom.

Plant Ratings ¹				Recommended for			Comments
Flower		Foliage	Overall	Fragrance ²	Cutting ²	Drying ²	
Quantity	Quality						
3	3	3	3	n		y	Tall, erect stems for cutting, small flower clusters, holds up well in cold, wet weather, uneven height, looks ragged late in season
3	3	3	3	n	y	y	Variable plant height, uneven mounding habit
4	4	4	4	n	y	y	Outstanding color
4	4	3	4	n	y	y	Interesting flower color, flower starts out reddish purple and open to a bluish purple
3	3	3	3	n	y		Compact plants, flowers are interesting two-tone color
3	3	3	3	n			Variable height, nice contrast of white flowers against green foliage
4	4	2	3	n	n		Very attractive jewel-like flowers, looks like tiny gold pin cushions, sparse in June, needs close spacing for best cover
3	3	3	3	y			Holds up well in cold, wet weather
4	4	4	4	y			Uneven plant height late in season, looks ragged, excellent fragrance, holds up well in cold, wet weather
3	3	3	3	y	n		Holds up well in cold, wet weather
4	4	4	4	y			Excellent color, works well with salmon-colored flowers, performs well in cold, wet weather
3	3	3	3	n	y	y	Expected giant plants with large heads. Instead plant was barely visible, nice spiky heads, holds up well in cold, wet weather
1	1	1	1	n			Poor growth this season, looked like dried up red spikes, needs very close spacing to fill bed, burgundy leaves and flowers
2	3	3	3	n	y		Sparse flowers, needs close spacing to fill in space, excellent color, good accent plant
4	4	3	4	n	y		Blooms late but worth the wait
4	4	4	4	n	y		Outstanding late season color mix, late to bloom but worth the wait
4	3	3	3	n	y		Holds up well in cold, wet weather, nice daisy-like flowers excellent for cutting
4	4	4	4	n	y		Excellent, full blooms, highly recommended for cutting, big poofs of petals opening to yellow centers, interspecies cross between spider asters and giant Crego types
4	4	4	4	y	y		Holds up well in cold, wet weather, nice, full, open, airy plant, great for fillers or background
4	4	4	4	n	n		Uneven mounds, each plant color a different size

¹0= dead; 1= poor, diseased, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.

²n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period [†]															
			min	max	min	max	Jun	Jul			Aug			Sep								
Calendula	Calypso Orange/ Black Center	yellow-orange with dk brown centers	10	12	2	2.75		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Calendula	Green Heart Orange	yellow-orange with orange centers	18	22	1.5	2.25		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Calendula	Kablouna Golden Sunset Improved	orange with yellow centers	16	32	2.0	2.75		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Calendula	Pink Surprise	apricot tinged with pink and lt brown centers	14	21	1.25	2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Calendula	Touch of Red Mix	yellow, orange, pink	10	17	1	2.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
6 California Poppy	Buttermilk	creamy yellow	10	14	1	2			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
California Poppy	Champagne & Roses	rose, light pink	8	12	1	1.75			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
California Poppy	Purple Gleam	rose with cream centers	10	21	2	2			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
California Poppy	Purple Gleam	rose with burgundy throat, veins	12	15	1.0	2.0		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Candytuft	Dwarf Fairy Mix	lavender, white	7	12	.5	.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Carpanthea	Golden Carpet	gold	6	6	1.5	2			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Centaurea	Alaska	white	23	45	3	4			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Centaurea	Imperialis Mix	red, pink, burgundy, yellow, white, lavender	12	16	1	1.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Chilean Glory Vine		pink, orange, yellow-orange	120	120	1	1				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Chrysanthemum	Silver Spoons	white/yellow centers	13	36	1.5	3				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Chrysanthemum (coronarium)	Primrose Gem	creamy yellow with dark yellow centers	13	26	1	2.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Cleome	Colour Fountain Mixed	rose, pink, white, lavender-pink	25	50	2	2							☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Cleome	Queen Mix	rose, pink	37	50	2.5	2.5							☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Cosmos	Gazebo Mix	pink, carmine, white, rose	14	27	2.75	5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Cosmos	Pied Piper Red	carmine	25	32	1.5	3.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

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[†]☼ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings ¹				Recommended for			Comments
Flower Quantity	Flower Quality	Foliage	Overall	Fragrance ²	Cutting ³	Drying ³	
2	3	2	2	y	y		Needs deadheading
3	3	3	3	n	y		Needs deadheading, bright flowers, lime green center not prominent
4	4	4	4	n	y		Needs deadheading more than other calendulas, did not have the crested blooms described in catalog; tolerates cold, wet weather
2	2	2	2	n	y		Very ornamental "pink" calendula, needs deadheading, holds up well in cold, wet weather, slow to recover from deadheading
3	4	3	3	sl	y		Needs deadheading, ragged when not deadheaded, interesting dark red undersides of petals, holds up well in cold, wet weather
4	4	3	4	n	y		Outstanding fluted flowers, bluegreen foliage, closes up in cloudy weather
4	3	3	3	n	y		Gorgeous color, fluted petals, closes up in cold weather
3	3	3	3	n			Outstanding flower color, closes up in cloudy weather, holds up well in cold, wet weather
3	3	3	3	sl			Nice display even late in the season, needs deadheading for best show; tolerates cold, wet weather
				n			Interesting early season color, but blooms finished in mid season, covered with seed pods by mid season, interesting green seed pods
4	3	2	2	n	n		Interesting feathery flowers, needs cleanup after rain, needs mid season deadheading, closes up in cloudy weather
3	4	3	3	sl	y		Large white flowers in mid to late season, does not bloom all at once, the flower buds are very ornamental with interesting netted pattern, stems lanky, spreading, needs support
1	2	1	1	n			Not showy, weak stems, overwhelmed by neighboring plants
3	4	4	4	n			Outstanding vine, grows as fast as scarlet runner bean and has beautiful, dark green, dissected foliage, feathery tendrils, very ornamental
3	3	3	3	n	y		The spoon-type petals do not occur on every flower, or within the same flower, uneven height
4	4	4	4	sl	y		Large bushy plants with abundant blooms, some single petals, most double-petaled, needs late season deadheading, performs well in cold, wet weather
3	3	3	3	n			Very nice mid season blooms, excellent mix of colors; tolerates cold, wet weather
3	3	3	3	n			Tolerates cold, wet weather
4	3	3	3	sl	y		Holds up well in cold, wet weather, needs deadheading in mid season, nice mix of colors
2	3	3	3	n	y		Weak stems, floppy, interesting tubular flowers, tolerates cold, wet weather

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Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period [†]																
			min	max	min	max	Jun	Jul	Aug	Sep													
Cosmos	Versailles Mixed Colors	white, pink, rose, carmine	21	32	2.25	3.5		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Cosmos	Yellow Garden	yellow, white, pink	26	40	1.75	2.5		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Cosmos bipinnatus	Gazebo White	white	21	31	2.5	3.25		☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Cosmos bipinnatus	Sensation Mix	rose, white, pink, magenta	25	39	2.5	4.0		Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Cosmos bipinnatus	Versailles Carmine	carmine rose	27	42	2.5	3.5			Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
8 Cosmos sulphureus	Cosmic Orange	yellow-orange	10	14	1.5	2.5	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☆					
Crown-daisy Chrysanthemum	Shungiku Edible, Garland Chrysanthemum	yellow with white tips	18	34	1.75	3.0		Y	Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Cynoglossum	Firmament	blue	9	19	.25	.25				Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Dahlia	Ala Mode	peach with white tips	40	46	5	6												☆					
Dahlia	Aslan		32	38	3.5	5																	
Dahlia	Brush Strokes	rose pink	40	45	2	3													⊗	⊗	⊗	⊗	⊗
Dahlia	Emma Elizabeth		30	36																			
Dahlia	Figaro	yellow, rose, white, lt orange, pink	8	9	2	4			Y	Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Dahlia	Harlequin Mixed Colors	white, yellow, red, rose, purple	15	21	2.5	3.75		Y	Y	☆	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
Dahlia	Hillcrest Fiesta	yellow tinged with red	24	40	4	5																	
Dahlia	Keewatin Pioneer	red and yellow	23	29															⊗	⊗	⊗	⊗	⊗
Dahlia	Kellie Ann	white with lavender tips	38	40															⊗				
Dahlia	Kidd's Climax	pink fading to white in centers	35	45																			
Dahlia	Mary	lavender tips, white base	36	44															⊗	⊗	⊗	⊗	⊗
Dahlia	Otto's Thrill	light pink with rose centers	32	45	5	8													⊗	⊗	⊗	⊗	⊗

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[†]Y indicates start of bloom, ☆ indicates partial bloom, and ⊗ indicates full bloom.

Plant Ratings'				Recommended for			Comments
Flower		Foliage	Overall	Fragrance'	Cutting'	Drying'	
Quantity	Quality						
3	3	3	4	n	y		Very nice mix of colors
2	2	3	2	sl	y		Holds up well in cold, wet weather, one pink-flowered plant, 25% white and the rest yellow
3	3	3	3	n	+		Needs deadheading late in season, tolerates cold, wet weather
3	3	3	3	n	y		Excellent flowers and foliage, tall stems for cuttings, tolerates cold, wet weather, needs dead heading
3	3	3	3	sl	y		Late to bloom, lots of foliage, sparse flowers even in mid August, nice flower size, needs dead heading late in season
1	1	1	1	n	n		Extremely poor growth, needs serious deadheading
3	3	3	3	y	+		Tolerates cold, wet weather; interesting bicolor flowers- yellow centers with white tips; floppy stems, flowers used for leis and garlands, spicy edible greens
3	3	3	3	n	n	n	Open, spreading, nice as accent, holds up well in cold, wet weather
2	2	2	2	n	y		Small, sparse flowers, nice tall stems, not much of a show this year
1	1	2	1	n	y		Spotty light green foliage, very late to bloom
2	3	3	3	n	y		
1	1	1	1	n			No flowers this year
3	3	3	3		y		Good mix of colors, abundant flowers all season, holds up well in cold, wet weather, nice color mix
3	3	3	3	n			Holds up well in cold, wet weather, many two-tone solid and bicolor flowers
2	3	3	3	n	y		
1	1	3	1	n	y		Small semi cactus blooms, very late to bloom
1	1	2	1	n	y		Large semi cactus, late to bloom, yellowish foliage
1	1	2	1	n	y		Didn't bloom this year, too cold
1	1	3	1	n	y		Too late
3	4	3	3	n	y		One of the few dahlias to bloom this season

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Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period*															
			min	max	min	max	Jun	Jul	Aug	Sep												
Dahlia	Paro Gillian	yellow with orange tips	28	38	4	5										Y	☉	☉	☉	☉	☉	☉
Dahlia	Pat n' Dee																☉	☉	☉	☉		
Dahlia	Shadow Cat	orange, yellow toward centers	27	34	4	5											Y	☉	☉	☉	☉	☉
Dahlia	Stoneleigh Cherry	red	28	37	1.75	2.25											☉	☉	☉			
Dianthus	Bouquet Purple	purplish pink	15	27	1.25	1.5			Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Experimental Diamond Blush Pink	white, dark pink, light pink	5	8	1	1.5	Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace Light Pink	pink with rose markings	7	12	1.25	2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace Lilac	rose	5	12	1.75	2.25	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace Picotee	rose centers with white edges	6	10	1.5	2.0	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace Salmon	salmon with white edges	5	10	1	1.5	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace True Rose	rose	5	8	1	1.5	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Floral Lace White	white	6	6	1	1.75	Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Ideal Pink	rose pink	7	14	1.25	1.5	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Melody Pink	purplish pink	9	23	1	1.25	Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Tutti Frutti Mix	pink, rose, light pink, salmon	7	13	1.5	1.75	Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Dianthus	Velvet 'N Lace	burgundy with white margins	10	16	1.5	2			Y	Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Drumstick Flower	Goldstick	gold	24	36	.75	1.0			Y	Y	Y	Y	Y	Y	☉	☉	☉	☉	☉	☉	☉	☉
Felicia	Cub Scout	blue with gold centers	10	12	0.75	0.75			Y	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
Flowering Kale	Red Feather																					

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 *Y indicates start of bloom, ☉ indicates partial bloom, and ☉ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance*	Cutting*	Drying*	
Quantity	Quality						
3	3	3	3	n	y		Lots of buds late in season, but show is not spectacular, interesting flower color, incurved cactus
1	1	2	1	n	y		No flowers this season
2	3	3	3	n	y		Very late to bloom
4	4	3	4	n	y		One of the few dahlias that bloomed this year, nice button-like flowers, very neat, excellent color
4	4	3	4		+		Bright, vibrant color
2	3	3	3	sl			Excellent multicolored mix, needs some deadheading, needs close spacing
3	3	3	3	n	n		Needs deadheading, holds up well in cold, wet weather, some flowers speckled pink
3	3	3	3	sl			Needs some deadheading; some red-flowered plants
3	3	3	3	sl			Needs deadheading, space closer together for better show, holds up well in cold, wet weather
3	3	3	3	n			
2	2	2	2	n			Needs deadheading, needs close spacing
3	3	2	3	sl			Needs deadheading, flowers turn brown in rain, good cover
				n	y		Fills in bed well, needs deadheading late in season, good color all season, holds up well in cold, wet weather
3	3	3	3	y			Taller than most dianthus, abundant flowers, wonderful spicy fragrance, variable flower height, minor deadheading needed, All American Selections winner for 2000, holds up well in cold, wet weather
4	4	4	4	sl			Holds up well in cold, wet weather, excellent color mix, fills in well
2	3	3	3	n	y		Very nice burgundy flowers trimmed with white edging, small very ornate flowers on strongly upright stems, needs deadheading, holds up well in cold, wet weather, early flowers quickly overgrown by new stems
2	3	3	3	y	y	y	Unusual mounds of grasslike silvery foliage with tall, sparse leafless stems topped with bright yellow balls. Showiest part is the foliage
4	2	2	2	n			Thousands of tiny flowers, flowers open with blue ray petals and yellow centers. The ray petals fold downward leaving only the button center, not the most attractive plant we've grown
		3	3	n	n		Holds up well in cold, wet weather, marmot damage, nice feathered foliage

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 †n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period†																
			min	max	min	max	Jun	Jul	Aug	Sep													
Foxglove	Foxy	rose, pink, cream	27	46	2.0	2.5					Y	Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
Gazania	Daybreak Mix	yellow, orange	8	14	2	3.5		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Gazania	Daybreak Pink Shade	rose centers fading to lt pink at tips	7	12	2.5	3		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Gazania	Daybreak White	white with yellow centers	8	13	1.5	3			Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Gazania	Red Stripe	gold with dark brown stripes	10	12	2	2.25	Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
12 Gladiolus	Applause		36	45	2.5	3								☆	☆	Y	Y						
Gladiolus	Matchpoint	rose pink	28	36	1	2.5													Y	Y			
Gladiolus	Pixiola Bonanza Mix		30	36																Y	Y		
Gladiolus	Plum Tart		24	30																Y	Y	Y	
Gladiolus	Wine and Roses		20	31	2.5	3														Y	Y	Y	Y
Godetia	Grace Rose Pink	rose	13	25	2	2.5								☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Godetia	Satin Mix	apricot, pink, rose, lavender	9	14	2	2.5								Y	☆	☆	☆	☆	☆	☆	☆	☆	☆
Gypsophila	Gypsy	pink	4	6	.25	.5		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Improved Red	red	2	4	1.25	1.5	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Improved Violet	purplish rose	2	5	1.5	1.75	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Lilac Splash	rose with dark centers	3	7	1	1.25	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Mix Merlot	purplish rose	2	5	1	1.5	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Mix Peacock	rose, pink	2	4	1.25	1.5	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Pink	pink	2	4	1.5	2	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Impatiens	Dazzler® Pink Deep	pink	3	5	1.25	2	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆

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Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance*	Cutting*	Drying*	
Quantity	Quality						
4	4	4	4	n	+		Gorgeous blooms; late to bloom but worth it, attracts honeybees, bumblebees, bee flies
4	4	4	4	n			Closes up in cloudy weather, beautiful show when open, holds up well in cold, wet weather, great color mix
4	4	4	4	n			Closes up in cloudy weather, nice color
3	3	3	3	n			Closes up in cloudy weather
4	4	4	4	n			Interesting striped petals, closes up in cloudy, cold weather, Fleuroselect Gold Medal winner, needs deadheading after rainy weather
1	1	1	1	n	y		Thrips damage, very poor growth
1	1	2	1	n	y		Thrips damage, poor showing
1	1	1	1	n			Thrips damage
1	1	1	1	n			Thrips damage
1	1	1	1	n	y		Thrips damage, very poor flowers this season
3	3	2	3		+		Susceptible to Sclerotinia rot
4	3	2	3	n	y		No doubt one of the most attractive and asked about flowers in the garden; needs cleanup after rain; flowers get soggy and limp, needs deadheading to keep blooms coming, susceptible to Sclerotinia cottony rot
4	4	3	4	n			Excellent mounds covered with tiny blooms all summer, no maintenance; tolerates cold, wet weather
1	1	1	1	n	n		Not much growth, tiny mounds
3	3	3	3	n	n		
3	3	2	3	n	n		
4	4	3	4	n	n		Large flowers, one of the best impatiens
3	3	2	2	n	n		Nice color mix, scraggly, not very attractive
2	3	2	2	n	n		Nice color, pale foliage, not much spread
2	2	2	2	n	n		

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Name	Cultivar	Flower color	Height (m)		Flower size(m)*		Flowering period*															
			min	max	min	max	Jun	Jul	Aug	Sep												
Impatiens	Dazzler® Punch		3	8	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Dazzler® Violet Star	rose with white star	3	5	1.5	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Showstopper Picotee	pink with rose highlights	3	6	1	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Showstopper White	white	3	5	1	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Blush	pink with rose centers	2	4	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
14 Impatiens	Super Elfin Cherry Improved	red	3	5	1	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Pink Light	pink	2	5	1	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Red	red	3	6	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Salmon Blush	salmon	2	5	1	1.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Stardust Mix	pink with white centers	3	7	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin Violet	lavender	3	5	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Impatiens	Super Elfin White Improved	white	2	4	1.25	1.75	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Lavatera	Beauty Mix	white, pink, rose	17	32	1.5	1.75				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Lavatera	Silver Cup	rose	24	38	2	3		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Linaria	Fantasy Blue	lavender	7	11	.5	.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Malope	Choice Mix	rose, white, crimson with dark burgundy veins	20	30	1.5	2.75				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Atlantis Mix	yellow and yellow-orange mix	8	13	2.75	4				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Discovery Orange	yellow-orange	5	10	2.5	4.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Jubilee Orange	orange	7	22	2.25	4				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Mesa Gold	gold	8	10	3.25	3.75				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

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 *☼ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance†	Cutting†	Drying†	
Quantity	Quality						
3	3	3	3	n	n		One of the better impatiens
3	2	2	2	n	n		Declines late in season
3	3	3	3	n	n		Nice bicolor
3	2	2	2	n	n		Pale foliage, not attractive
3	2	2	2	n	n		
3	3	3	3	n	n		Nice red color
3	1	2	2	n	n		Tiny flowers, not much show
3	3	3	3	n	n		Spotty foliage, nice red
2	2	2	2	n	n		Sparse foliage and flowers, poor growth
2	3	3	3	n	n		
3	4	3	3	n	n		Larger flowers than most
2	2	1	2	n	n		Small mounds, poor growth
4	4	3	3	sl	y		Needs deadheading, white flowers look ragged when old, good color mix; tolerates cold, wet weather, needs deadheading late in season
4	3	2	3	n	y		Floppy late in the season
4	4	3	4	sl			Very nice mounds covered with blooms; attracted attention early in season when other flowers just getting started, needs deadheading late in season, excellent rebloom with deadheading
4	4	3	4	n	+		Attractive flowers, weak stems give sprawling habit, needs deadheading
3	4	4	4	y	n	y	Nice mix of colors, abundant fully double blooms, huge balls of color, needs deadheading
3	3	3	3	y	n	y	Heads rot and turn brown in rain, needs late season deadheading, excellent flower size, brilliant color
3	3	3	3	y		y	
3	4	4	4	sl	n	y	Large flowers on stubby plants, incredibly even height

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Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period*															
			min	max	min	max	Jun	Jul	Aug	Sep												
Marigold, African	Mesa Yellow	yellow	6	11	2.5	4				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Snowball	yellowish white	9	12	2	3.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, African	Sweet Cream	creamy white	11	16	1.75	3				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Bonanza Bolero	orange, gold and yellow with red markings	6	10	2.25	2.75	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Durango Orange	yellow-orange	8	11	3 x 2	6 x 2	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
16 Marigold, French	Durango Yellow	yellow	8	11	1.5	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Juliette	gold with red flecks	6	15	1.75	2.75				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Safari Primrose	yellow	4	9	1.5	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Safari Red	red with orange and yellow markings	6	9	1.5	2.75	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, French	Zenith Red	gold with red markings, red with gold markings	10	15	1.75	3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Marigold, Signet	Lemon Star	yellow with mahogany markings	7	18	.75	1.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Mexican Sunflower		orange with lt orange centers	39	57	2.25	3.5					☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Mexican Sunflower	Piasta Del Sol	red-orange	7	15	1	1.5					☼	☼	☼	☼	☼							
Mexican Sunflower	Torch	orange	24	38	2	3.5											☼	☼	☼	☼		
Mignonette, White		white	25	36	6 x 1	6 x 1					☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Morning Glory	Mt Fuji Mix		12	16													☼					
Nasturtium	Apricot Trifle	peach	8	14	1.5	2.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nasturtium	Cherry Rose Jewel	light rose	8	20	1.5	2.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nasturtium	Creamsicle	apricot and orange with crimson throat	6	10	1.75	2.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nasturtium	Jewel Mix	orange, yellow, gold, red	6	15	1.5	2.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

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Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance*	Cutting*	Drying*	
Quantity	Quality						
3	3	3	3	y		y	Huge flower balls on short stubby stems, needs deadheading to remove rotten flowers, nice flower color contrast with foliage
3	2	3	3	y	y		Fading flowers covered with purplish spots, then they rot, needs deadheading, not as good as 'Sweet Cream'
3	3	3	3	y	y		Older flowers turn brown in centers in wet weather, needs deadheading, best cream color
3	3	3	3	y		y	Needs deadheading, variable plant height, striking colors, 1999 All America Selections bedding plant winner
3	3	3	3	y		y	Brilliant flower color, a few tall plants in otherwise compact bed, needs late season deadheading
4	3	3	3	sl		y	Needs deadheading, variable flower height but not unpleasant, electric color
3	3	3	3	y		y	French, carnation-flowered type, nice compact plants
3	3	3	3	y	n	y	Very nice electric color, needs deadheading especially in rainy weather
4	3	3	3	y		y	Needs deadheading, very nice mix of colors
3	3	3	3			y	Excellent mix of colors, Floranova winner
4	4	4	4	sl	+	y	Very nice signet type with striking markings; bright color; tolerates cold, wet weather
3	3	2	3	sl	y	y	Interesting large plant great eye-popping color, small but abundant flowers, interesting trumpet-shaped, velvety flower base
2	1	1	1	n	n		Nothing to rave about, flowering spotty and uneven, not many blooms late in season, All America Selections winner 2000
3	3	3	3	n	y	y	Performed better in other years
3	3	3	3	y		y	Excellent tall background plant or accent, big, bushy, attracts bees, performs well in cold, wet weather, late but nice
1	1	1	1				Poor growth, no flowers
3	3	3	3	n	y		Interesting flower color, leaves with slightly wavy edges, lots of flowers visible through foliage, double and semi-double flowers
4	3	2	3	n			Flowers hidden by pale foliage, not as showy as others, some flowers blotchy and unattractive, semi-double blooms
3	2	1	2	n	y		Nice flowers above pale green, sometimes yellowish foliage, apricot flowers very attractive
4	3	3	3	n	y		Foliage overwhelms flowers late in season, great mix of colors but hard to see

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* n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period [†]															
			min	max	min	max	Jun	Jul			Aug			Sep								
Nasturtium	Moonlight	creamy yellow	8	20	2	2.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nasturtium	Strawberries and Cream	yellow with orange marking in center	8	18	2	2.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nasturtium	Tip Top Mahogany	dark orange	10	14	1.5	2.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nemesia	Tapestry	white, red, lavender, gold, pink with dark throat	7	14	1	1		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nicotiana	Fragrant Cloud	white	17	52	2.5	3.0			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
18 Nicotiana	Hummingbird Mix	red, pink, white, rose	15	23	1.25	1.75		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nicotiana	Hummingbird Rose Pink	rose	10	18	1.5	2			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nicotiana	Only the Lonely	white	30	60	1.5	1.5					☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nicotiana	Saratoga Deep Rose	rose	11	16	1.5	1.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Nicotiana (alata)	Avalon Bright Pink	pink	11	16	2	2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Banner Daffodil	yellow, white, orange, primrose	9	12	1.75	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Mixed F1 Hybrid																					
Pansy	Blue Velour	lavender	8	12	1.5	1.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Can Can F1	lavender, purple, white with dark face	8	13	1.5	2.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Contessa Ruffled Mix	cream, yellow, lavender, rose with dark face	4	4	3	4	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Crown Mix	yellow, rose, blue, white, cream, lt orange, lt yellow, clear face	9	12	1.75	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Fama Clear Faced Mix		10	15	1	2.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Impressions Mix	rose, cream, lavender, yellow, red, purple with burgundy face	14	21	1.5	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Maxim Hybrid Mix	yellow, red, cream, purple, blue, orange with dark face	8	11	2	3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Silver Princess Improved	cream with rose face	7	10	1.75	2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Pansy	Ultima Silhouette Mixed	purple, lavender, rose, yellow, cream	8	16	1.5	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

*sizes with an x like 12x3 indicates a spike flower type with the height x width.
[†]☼ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings*					Recommended for			Comments
Flower		Foliage	Overall	Fragrance'	Cutting'	Drying'		
Quantity	Quality							
3	4	3	3	n			Very nice flower color, light green foliage, good flower display above foliage	
2	3	3	3	n				
2	3	2	2	n			Pale foliage (called golden green in catalogs), nice flowers but many hidden by foliage	
3	3	3	3	n			Susceptible to Sclerotinia cottony rot	
4	4	4	4	sl			Great floppy mounds of flowers, tolerates cold, wet weather	
4	4	3	4	n			Uneven height	
4	3	3	3	n			Choked with blooms	
3	3	3	3	y	y		Late to bloom, excellent trumpet-shaped flowers, some cuts in leaves, foliage pale green, splotchy, variable height, tolerates cold, wet weather	
4	4	3	4	n			Interesting uniform color, very uniform plant height	
4	3	3	3	n			Interesting light pink color, 2001 All America Selections bedding plant winner	
3	4	3	3	y			Holds up well in cold, wet weather, interesting mix of colors	
3	3	3	3	n			Holds up well in cold, wet weather, Fleuroselect Gold Medal	
3	4	3	3	n			Holds up well in cold, wet weather, nice ruffled edges with dark faces, first hybrid ruffled pansy	
4	4	3	4	y			Holds up well in cold, wet weather, very nice ruffled edges	
4	4	3	3	y			Mix of mostly pastel colors, clear face, holds up well in cold, wet weather	
4	4	4	4	y			Excellent color mix, clear face	
3	3	3	3	y			Excellent mix of mostly pastel colors, holds up well in cold, wet weather	
3	3	3	3	n				
3	4	3	3	y			Holds up well in cold, wet weather, very attractive color	
4	4	4	4	sl			Outstanding mix of pastel colors, Holds up well in cold, wet weather	

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'n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size (in)*		Flowering period ^b															
			min	max	min	max	Jun	Jul			Aug			Sep								
Pansy	Watercolors Mixture	yellow, cream, lavender, blue, orange, white	8	14	1.25	2	†	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Penstemon	Sensation Mix	rose, cream, lavender	14	24	5 x 3	7 x 3					✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Carpet Blue	purple	8	12	2	3	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Carpet Lilac	lavender	7	11	1.5	2.25	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Carpet Plum	rosy purple	7	11	1.75	2.5	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
20 Petunia	Carpet White	white	10	12	2	2.5		✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Celebrity Watercolors	pastel blues, pinks, ivory, red, rose	11	14	2.5	3	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Dreams Midnight Improved	bluish purple	9	13	3	3	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Dreams Neon Rose	rose	5	13	2	3	†	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Dreams Red	red	8	13	2.25	3	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Dreams Salmon	red/salmon	8	16	2.5	3.5	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Dreams White	white	9	15	2	2.5	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Fantasy Ivory	cream	10	11	1.5	1.5	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Fantasy Mix Ball	red, purple, pink, lavender, white, rose	8	14	1.25	1.75	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Lilac	lavender	7	13	2.5	3.5	†	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Mix Merlot	red, burgundy, pink, white, rose	7	10	2.5	3	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Plum Crazy	pinkish lavender with plum veins and centers	7	17	2.5	2.75	†	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Royal	purple	6	14	1.5	2.75		✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Sheer	pink with rose veins	11	13	2	2.5	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪
Petunia	Madness Simply	salmon pink	7	12	2.5	3	†	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪	✪

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† indicates start of bloom, ✪ indicates partial bloom, and Ⓢ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower Quantity	Flower Quality	Foliage	Overall	Fragrance*	Cutting*	Drying*	
4	4	4	4	sl	y		Holds up well in cold, wet weather, some ruffled edges
3	3	3	3		y		Holds up well in cold, wet weather, beautiful foxglove-like flowers, very nice mix of colors
2	3	1	2	sl			Velvety texture to petals, rich appearance, susceptible to Sclerotinia cottony rot
3	3	2	3	sl			Needs deadheading; susceptible to Sclerotinia cottony rot
3	4	2	3	y			Beautiful two-toned flowers, slight damage from Sclerotinia
2	2	1	2	sl	n		Small flower size, needs deadheading, susceptible to Sclerotinia cottony rot
4	4	4	4	sl			Holds up well in cold, wet weather, one of the best petunias this season, little damage from Sclerotinia cottony rot
3	3	2	3	sl			Excellent color and form, velvety flower texture, very attractive, susceptible to Sclerotinia cottony rot
2	3	1	2	n			Susceptible to Sclerotinia cottony rot
3	3	3	3	sl			Finished by mid August, needs deadheading, nice true red
3	2	1	2	n			Susceptible to Sclerotinia cottony rot, most true red rather than salmon
2	3	1	2	n			Susceptible to Sclerotinia cottony rot
1	1	1	1	y			Died out in mid season due to Sclerotinia cottony rot, bred for tiny flowers and smaller features for front of borders or containers
4	2	3	2	y			Early in season, plant is small mound, more flowers than plant, slow to fill out bed, variable height, whites taller than other colors
3	2	2	2	y			Nice color, flowers look terrible after a rain, petals are pock-marked and droopy, needs dead heading, susceptible to Sclerotinia cottony rot, petals speckled after rains
4	4	2	3	y			Susceptible to Sclerotinia cottony rot
3	3	3	3	y			Small flowers, needs deadheading late in season, nice color
2	3	1	2	sl			Susceptible to Sclerotinia cottony rot
1	1	1	1	y			Died out in mid season due to Sclerotinia cottony rot
2	3	1	2	n			Susceptible to Sclerotinia cottony rot

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 *n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period [†]															
			min	max	min	max	Jun	Jul			Aug			Sep								
Petunia	Madness Total	lavender/purple, rose/dk red, burgundy, pink, white	7	15	2.5	3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Plum Crazy	rose	7	15	1.5	2.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Madness																					
Petunia	Prism Sunshine	yellow	9	20	2	3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Rose Carpet Improved	rose pink	6	12	2	2.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Shepherd's Delight	rose, pink with cream centers	5	7	2.5	3.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Tidal Wave Cherry	cherry	9	35	1	2.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Petunia	Tidal Wave Hot Pink	dark rose pink	12	26	1.5	2	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Phlox	21st Century	lavender, coral, pink, white, rose, red	9	16	1.25	1.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Phlox	Starry Eyes Mix	pink, red rose, white, lavender, cream	10	17	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Phlox, Hybrid	Mount Hampden	pink, white, rose, lavender	5	11	1	1																
Portulaca	Margarita Rosita	rose	3	5	1.25	2																
Portulaca	Sundial Peach	pinkish orange	3	6	1	2	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Rudbeckia	Indian Summer	gold with brown centers	35	45	5.0	7.0																
Rudbeckia	Irish Eyes	gold with green centers	22	35	5	6.75																
Rudbeckia	Rustic Colors	yellow, gold, burnt orange	18	28	2.5	5.0																
Rudbeckia	Sputnik	yellow tips, mahogany base with brown centers	18	30	3	4																
Salpiglossis	Bolero Hybrids Mix	yellow, rose with yellow markings	14	21	2	2.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Empire Orange	orange/white	8	10	3 x 1	6 x 1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Bicolor																					
Salvia	Salsa Salmon	salmon	8	10	5 x 3	5 x 3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Tango	orange-red	7	10	5 x 2.5	7 x 2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

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Plant Ratings ¹				Recommended for			Comments
Flower		Foliage	Overall	Fragrance ²	Cutting ²	Drying ²	
Quantity	Quality						
3	3	3	3	sl			Very nice mix of flower colors, does not hold up well in rain, all flowers have light-colored petals, dark veins, dark throat
3	3	2	3	y			Some Sclerotinia cottony rot disease, flowers don't hold up well in rain
3	2	1	2	sl			Susceptible to Sclerotinia cottony rot, declines in mid August, excellent color, 1998 All America Selections winner
3	3	1	2	sl			Small flowers, needs deadheading, doesn't hold up well in rain, susceptible to Sclerotinia cottony rot damage
2	3	1	2	sl			Interesting blend of 3 flower color, blooms decline in mid August, susceptible to Sclerotinia cottony rot
3	3	1	2	y			Mountains of flowers, needs bed by itself, small flowers, very fragrant, tolerates cold, wet weather; very susceptible to Sclerotinia cottony rot
4	4	2	3	y			Mountains of flowers, needs a bed by itself, spreads upward and outward, outstanding late season blooms, holds up well in rain and cold weather, holds up well in cold, wet weather, susceptible to Sclerotinia cottony rot
4	4	4	4	n			Holds up well in cold, wet weather, outstanding mix of colors, avoid Preen® herbicide
4	3	3	3	y	y		Rounded flower clusters with interesting markings on the petals, look like stars, holds up well in cold, wet weather
4	3	3	3	n			Outstanding small mounds of semi-double flowers, one of the best flowers this season, very delicate, ornamental, nice mix of pastel colors, holds up well in cold, wet weather
2	3	3	3	n			Eye-popping, vibrant pink semi double flowers, needs deadheading, messy, few flowers in mid August, 2001 All America Selections Winner, does not spread like other portulacas
3	3	3	3	n			More orange than pink flower color, nice semi-double flowers
4	4	4	4	n	y		Late to bloom but worth the wait, excellent form, variable flower size, nice dark green foliage, All America Selections winner 1995
3	3	3	3	n	y		Very nice green centers
4	3	3	3	n	y		Attracts bees, interesting mix of flower colors, very attractive; tolerates cold, wet weather
4	4	3	4	n	y	y	Excellent blooms for late season color, attracts bees
3	3	3	3	n			Good in mid season, but declines by mid August, looks ragged late in season, interesting flower colors, velvety petals
2	2	1	1	n			Susceptible to Sclerotinia cottony rot
2	1	3	2	n			Needs deadheading, nice color, poor in cold weather
4	3	2	3	n			

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²n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size (in)*		Flowering period*															
			min	max	min	max	Jun	Jul			Aug			Sep								
Salvia	Vista Burgundy	burgundy	9	11	5 x 3	6 x 3		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Vista Lavender	light purple	9	9	1.25	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Vista Red & White	red and white bicolor	6	10	2 x 1.25	5 x 1.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia	Vista White	white	6	10	3 x 2	5 x 2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼					
Salvia	White Porcelain	white	18	27	1.0	6.0	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
21 Salvia (coccinea)	Coral Nymph	coral pink	16	31	1	1					☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (coccinea)	Snow Nymph	white	8	13	1.5	3				☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia, Mealy Cup	Victoria	royal blue	20	30	3 x 1	5 x 1	☽	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Empire Salmon	salmon	9	12	5 x 1.5	3 x 1.5	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Orange Zest	scarlet	9	14	5 x 2	9 x 2.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Red Hot Sally	scarlet red	10	12	5.5 x 3	6 x 3.5	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Red Vista	scarlet red	8	11	3 x 2	6 x 2	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Salsa Salmon	salmon	7	10	5 x 3	7 x 3	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Splendissima	scarlet	14	18	3.5 x 2	8 x 3		☽	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (splendens)	Vista Purple	purple	6	9	4 x 2	5 x 2.5	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Salvia (viridis)	Claryssa Pink	pink	16	25	4 x 1.5	8 x 1.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Sanvitalia	Irish Eyes	yellow with green centers	8	12	.75	1.0	☽	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Sanvitalia	Mandarin Orange	orange with brown centers	10	12	.75	1	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Sanvitalia	Orange Sprite	orange	8	10	.5	1	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Scabiosa	Salmon Queen	salmon pink	8	26	2	2.25				☽	☽	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

*sizes with an x like 12x3 indicates a spike flower type with the height x width.
☽ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance'	Cutting'	Drying'	
Quantity	Quality						
3	3	3	3	n			Nice color
3	2	1	2	n			Flowers turn brown quickly after full bloom, susceptible to Sclerotinia cottony rot
2	1	1	1	n			Very poor quality, declines early in season
2	1	1	1	n			Ragged appearance, white color quickly turns brown, needs deadheading, susceptible to Sclerotinia cottony rot
3	3	3	3	sl	+	+	
1	2	3	2	n	y		Excellent color, sparse flowers, effect is more green than color until late season, holds up well in cold, wet weather
2	2	3	2	n	y		Blooms more sparse, not as ornamental as other salvias
3	3	3	3	n	y	y	Holds up well in cold, wet weather, excellent filler or background plant
3	3	3	3	n			Needs deadheading, not as good as Salsa Salmon, best salmon colored salvia, little Sclerotinia damage
4	4	3	4	n			Old flowers fade to a pale red, some late-season deadheading needed, fills in nicely
3	4	1	2	n			Excellent color and performance, nice tall flower stalks, foliage exceeds flower height on some plants, susceptible to Sclerotinia cottony rot
2	1	1	1	n			Excellent color and large bloom spikes, susceptible to Sclerotinia cottony rot
3	2	2	2	n			Very nice flower color, susceptible to Sclerotinia cottony rot
4	4	4	4	n			Tall spikes, good color all season, the best salvia this season, holds up well in cold, wet weather
3	2	2	2	n			Interesting color, shorter than other salvias; needs closer spacing to fill in space, needs a little deadheading late in season, flowers become brown with age, not attractive
4	4	3	4	n	y	y	Very colorful bracts, flowers are secondary, lots of crowded upright stems, performs well in cold, wet weather
4	4	4	4	n			Tolerates cold, wet weather; unusual greenish centers on flowers
4	4	4	4	n	y		Reliable edging plant, long season blooms, no maintenance, All America Selections winner; tolerates cold, wet weather
4	4	4	4	n			Nice, compact plant, maintenance free, very similar to Mandarin Orange, semi-double flowers
3	3	3	3		y		Holds up well in cold, wet weather, floppy stems

*0= dead; 1= poor, diseased, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.
 'n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size (in)*		Flowering period*																
			min	max	min	max	Jun	Jul			Aug			Sep									
Shasta daisy	Superba	white, yellow centers	21	37	3	4.25		Y	Y	Y	Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Shoo-Fly Plant (<i>Nicandra physalodes</i>)		blue	40	45	1	2		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Bells Mixture	red, yellow, white, red-orange	6	10	3 x 3	5 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Black Prince	dark red	11	21	3 x 2.5	10 x 3		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Brazilian Carnival	yellow, rose, white, pink bicolors	18	39	5 x 3	9 x 4			Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
26 Snapdragon	Double Azalea Apricot	apricot/light orange	17	35	5 x 3	5 x 4				Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Freesong White	white	18	26	2.5	11		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Hobbit Dwarf Mix	rose, pink, apricot, white	10	13	3 x 2	5 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Jamaican Mist	pink, peach, yellow, rose, light brown	7	17	5 x 3	7 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	La Bella Mix	red, bronze, pink, yellow, white, purple, bicolors	10	18	5 x 3	10 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Liberty Cherry	cherry red	16	26	6 x 3	8 x 3.5		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Montego Yellow	bright yellow	6	9	5 x 3	7 x 3.5		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Pink Bells	pink	7	9	3.5 x 2	4 x 2		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Plum Blossom	pink rose bicolor	12	27	4.5 x 3	7 x 4			Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Ribbon Yellow	yellow	14	24	5 x 3	15 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Rocket Cherry	cherry red	17	30	5 x 3	11 x 3		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Rocket Mix F1	pink, red, yellow, orange, white, orchid	17	31	5 x 3	13 x 3		Y	Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Sonnet Mixture	yellow, orange, rose, pink	16	24	5 x 3	9 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Tahiti Mauve	pink/mauve	7	12	4 x 2.5	6 x 2.5		Y	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
Snapdragon	Trumpet Serenade Mixed	yellow, pink, rose, red, light orange, apricot	10	21	3 x 2.5	9 x 3		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆

*sizes with an x like 12x3 indicates a spike flower type with the height x width.
 Y indicates start of bloom, ☆ indicates partial bloom, and Ⓢ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower Quantity	Flower Quality	Foliage	Overall	Fragrance†	Cutting†	Drying†	
3	3	3	3	n	y		Holds up well in cold, wet weather, late but nice show
3	3	3	3	n		y	Large plant with morning-glory-like blue flowers; will self sow in the garden, needs lots of space, holds up well in cold, wet weather
3	3	3	3	n			One of the best dwarf snaps, needs deadheading
3	3	3	3	n	y		Flowers look like velvet, very rich, holds up well in cold, wet weather
4	3	3	3	n	y		Interesting bicolor flowers, not as prolific as some snaps, nice tall stems
4	4	4	4	n	y		Holds up well in cold, wet weather, outstanding double, open flowers, excellent form
2	3	3	3	n	y		Flowering declines earlier than other snaps, nice clear white color
3	3	3	3	n	n		Needs deadheading, nice open bell-shaped butterfly-type flowers
3	3	3	3	n	y		Very nice warm color, open butterfly blooms
4	3	3	3	n			Excellent color mix, uneven height, butterfly-type, choked with blooms,
4	3	3	3	n	y	n	Long stems for cutting, good uniform color
2	3	3	3	n	y		Needs deadheading in August, recovers slowly from deadheading or cutting
2	3	2	2	n			Needs deadheading to maintain full-season color, one of the best dwarf snaps, holds up well in cold, wet weather
3	4	2	3	n	y		Outstanding bicolor flowers with two shade of pink, very dramatic effect, susceptible to Sclerotinia cottony rot
3	3	3	3	n	y		Needs deadheading, nice straight stems for cutting, excellent color
4	4	4	4	n	+		Holds up well in cold, wet weather, superb color, recommended for cutting
4	4	4	4	n	y		Holds up well in cold, wet weather, excellent mix of colors
4	3	3	3	n	y		Variable height, some flower stalks stubby, others tall, holds up well in cold, wet weather, excellent color mix, looks good all season
2	3	2	2	n	n	n	Needs deadheading to maintain full-season color, bicolor carpet, occasional plant to 14 inches; tolerates cold, wet weather
4	3	3	3	n	y		Open, butterfly-type flowers, short, limited use as cut flower, nice color mix, needs late season deadheading

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†n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period*															
			min	max	min	max	Jun	Jul			Aug			Sep								
Sphaeralcea	Los Brisas	light orange	25	28	.5	.5			Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Statice	Evening Sunset Mixed	orange, yellow	15	36	.25	.25			Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Statice	Sirima	pink, rose, lavender, white mix	18	32	.25	.25			Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Stock	Legacy Mix	pink, white, lavender	14	24	4 x 2	8 x 2						Y	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Stock	Vintage Copper	coppery pink	6	13	.5	.5	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
28 Strawflower	Salsa Mix	red, orange, yellow, burgundy	30	45	1.75	2.75			Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Crimson Thriller	gold and burnt orange with dk brown centers	43	67	4	6			Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Giant Sungold	gold	65	70	7	9						☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Kong	yellow with brownish yellow centers	59	83	8	12							☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Lemon Queen	light yellow with brown center	16	30	6	9				☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Pacino	yellow	23	26	4	6						☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Park's Velvet Tapestry	yellow, mahogany, dk red with brown centers	60	70	5	7				Y	Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Ring of Fire	yellow with dark red ring, brown centers	30	55	2.5	5						⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Santa Fe	gold	59	87	5	8						Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Soraya	gold with brown centers	42	72	6	7				Y	Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Sunbeam	yellow with yellow center	43	51	6	8			Y	Y	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Sunbright	yellow with brown center	50	65	6	9						☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Sundance Kid	yellow, gold	16	18	3	5						⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Tiger's Eye Mix	gold with reddish brown markings, mahogany	51	59	4	7			Y	Y	☆	☆	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sunflower	Titanic	gold	49	61	7	9							⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

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Y indicates start of bloom, ☆ indicates partial bloom, and ⊗ indicates full bloom.

Plant Ratings*				Recommended for			Comments
Flower		Foliage	Overall	Fragrance ¹	Cutting ²	Drying ³	
Quantity	Quality						
3	3	3	3	n	y		Interesting flower color, needs to be planted in masses for best effect; flowers a bit sparse
3	3	3	3	n	y	y	Holds up well in cold, wet weather, some flowers appear washed out
4	4	3	4	n	y	y	Excellent mix of pastel colors; nice upright stems for cutting, holds up well in cold, wet weather
3	4	4	4	y	y		Outstanding flower display all summer, white flowers mature a bit before pinks and lavenders, excellent contrast between silvery foliage and flowers, holds up well in cold, wet weather
1	1	1	1	y	n	n	Unusual color, flowers are short lived, very poor growth and flowering
4	4	3	4	n	y	y	Holds up well in cold, wet weather, nice, tall, straight stems, excellent for cutting
2	3	2	2	n	y		Nice mix of flower colors from deep burnt orange to gold, variable plant size, one giant plant and others very short, looks ragged
3	3	3	3	n	y		All ray flowers, fully double heads
2	2	2	2	n	n		Huge stems, late to bloom, multiple heads per stem, some need staking, too big for cutting, disk bigger than ray petals
3	3	3	3	n	y		Variable flower height, nice flowers, disk as big as ray petals
3	3	3	3	n	y	y	Short sunflower with nice small heads, attracts bees, recommended for containers
3	3	3	3	n	y	y	Attracts bees, nice mix of flower colors, good size for floral designs
3	3	2	3	n	y		Interesting bicolor blooms, 2001 All America Selections winner
3	3	3	3	n	y		Nice medium sized heads, fully double fluffy disks, some side branches
3	3	3	3	n	y		Medium sized flowers, upward facing heads very straight stems, All America Selections winner 2000, petals bleach quickly
3	3	3	3	n	y		Disk bigger than ray flowers, centers greenish yellow
3	3	3	3	n	y		Large brown disks surrounded by short ray flowers, attractive, disk bigger than rays
3	3	3	3	n	y	y	Very short stems, flowers done early, need other color later in season to fill in, produces mature seed
3	3	3	3	n	y		Weak stems needs staking, interesting color mix of flowers, some all ray flowers, others with brown stripe patterns on ray flowers
3	3	3	3	n	y		Nice upward-facing heads with all ray flowers, big puffs of gold, fully double

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¹n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size(in)*		Flowering period*																			
			min	max	min	max	Jun	Jul	Aug	Sep																
Sunflower	Valentine	lemon yellow with dark brown centers	39	63	4	6				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼				
Sunflower	Van Gogh Mix	yellow, gold, red, brown mix with brown centers	40	65	3.5	6															☼	☼	☼	☼	☼	
Sunflower	Vanilla Ice	light yellow with dark brown centers	54	65	4.5	5.25				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Ursinia		orange with brown centers	20	24	2	2.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Venidium	Jaffa Ice	orange or white with brown centers	20	43	2.0	3.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Venidium	Orange Prince	orange	20	38	3.0	4.0				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Venidium	Zulu Prince	white, orange with brown centers	32	36	2.5	3.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbascum	Southern Charm	pink/burgundy centers	25	34	1	1															☼	☼	☼	☼	☼	☼
Verbena	Moon River	lavender	8	16	.25	.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena	Quartz Burgundy	burgundy	6	14	.5	.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena	Quartz Formula Mix	red, white, rose, purple, pink	8	12	.25	.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena	Quartz Polka Dot Mix	red, pink, purple some with white centers	6	13	1.75	2.25				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena	Romance Pastel Mix	rose, apricot, white, pink, lavender	8	12	.5	.75			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena	Tickled Pink	pink edges with cream centers	6	10	.5	.5			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Verbena bonariensis	bonariensis	purple	27	52	1	1.75																				
Verbena, Moss	Sterling Star	lavender	9	20	.25	.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Viola	Four Seasons Golden Yellow	yellow	10	26	1	1.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Viola	Four Seasons Mix	yellow, purple, blue, cream	16	24	1	1.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Viola	Sorbet Blueberry Cream	cream/blue	10	14	1	1.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	
Viola	Sorbet French Vanilla	white	5	9	1	1.25			☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	

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 ☼ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings ¹				Recommended for			Comments
Flower		Foliage	Overall	Fragrance ²	Cutting ³	Drying ³	
Quantity	Quality						
3	3	3	3	n	y	y	Excellent flowers abundant, multiple flowers per stem, uniform height, good size for cutting, Fleuroselect winner
3	3	3	3	n	y	y	May need staking, attracts bees, nice mix of colors and double and single flowers
3	3	3	3	n	y		Very nice yellow color, flowers small but abundant, rays larger than disk
2	3	3	3	n	y		Bloomed early, then disappeared by August, overwhelmed by Calendula, very nice when it was blooming
4	4	4	4	n	y		Lanky growth, flowering stems upright spreading, needs lots of room, exotic looking flowers, needs deadheading in mid season
3	3	3	3	sl	y		Lanky growth, fuzzy stems and buds, needs lots of room; needs deadheading late in season
3	3	3	3	n	y		Lanky growth, flowering stems upright spreading, needs lots of room, holds up well in cold, wet weather, needs some deadheading
3	3	3	3	n	y		Late to bloom, very interesting flower color, sparse blooms of variable size; tolerates cold, wet weather
					y	y	Best use as filler or in containers, too open to be nice alone, holds up well in cold, wet weather
4	4	4	4	n			Excellent color, needs some deadheading
4	4	3	3	n			One of the nicer verbenas, good flower color mix, blooms evenly, needs some deadheading in mid season
4	4	4	4	n			Blooms unevenly, only some colors in bloom early in season, outstanding mix of colors, interesting white centers for polka dot effect, holds up well in cold, wet weather
				n	n		Nice mix of colors, late to bloom, holds up well in cold, wet weather
3	3	3	3	sl			Interesting two-tone color, pink fading to cream, very pretty in full bloom, needs some dead heading in mid to late season, large flower clusters, fills in very well
3	3	3	3	n	y		Interesting, tiny purple flowers on tall, very open, thin branches; best used as accent or filler; tolerates cold, wet weather
					y	y	Tiny flowers on long sprawling stems, okay as filler, but not alone, holds up well in cold, wet weather
4	4	4	4	sl			Mounds of bright yellow flowers all season, holds up well in cold, wet weather
4	4	4	4	n			Holds up well in cold, wet weather, great color combination
4	4	4	4	n			Holds up well in cold, wet weather, outstanding color, mounds of blooms
4	4	4	4	sl			Very nice white color, excellent mounds crowded with flowers all season, performs well in cold, wet weather

¹0= dead; 1= poor, diseased, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.

²n=no, y=yes, sl=slight

Name	Cultivar	Flower color	Height (in)		Flower size (in)*		Flowering period*																
			min	max	min	max	Jun	Jul	Aug	Sep													
Viola	Sorbet Yesterday Today & Tomorrow Gin	lavender-blue, cream	7	11	1	1.25	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Wax Begonia	Prelude Pink	pink	4	6	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Wax Begonia	Prelude Rose	rose	6	8	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Wax Begonia	Prelude Rose	rose	5	7	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Wax Begonia	Prelude Scarlet	scarlet	6	9	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Wax Begonia	Prelude White	white	6	8	1	1	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (angustifolia)	Crystal White	white, yellow centers	6	10	1	1.25				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (angustifolia)	Star White	white	6	12	1	2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Benary's Giant Formula Mix	scarlet, yellow, purplish pink, red	14	24	2.5	3.5				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Blue Point Eldorado	salmon	21	35	2	3.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Blue Point Formula Mix	cream, scarlet, orange, yellow, pink, purplish-pink	17	27	2.75	3.75		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Blue Point Golden Dawn	yellow	15	22	2	3				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Oklahoma Mix	pink, scarlet, yellow, gold, rose	18	27	1.75	2.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Oklahoma Scarlet	scarlet, orange	15	45	1.5	2.5		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Park's Picks Mix	yellow, lilac, rose, light green, red, white, purple	20	31	1.5	4				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (elegans)	Small World Pink	pink	10	15	1.5	2.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (haageana)	Persian Carpet	orange, yellow cream with dk red centers	14	27	1	2		☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (haageana)	Star Gold	gold	6	10	1	2				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (haageana)	Star Orange	orange	10	14	1.25	1.75				☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼
Zinnia (peruviana)	Bonita Red	orange-red	20	32	1	1.5	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼	☼

*sizes with an x like 12x3 indicates a spike flower type with the height x width.
 *☼ indicates start of bloom, ☼ indicates partial bloom, and ☼ indicates full bloom.

Plant Ratings ^a				Recommended for			Comments
Flower Quantity	Flower Quality	Foliage	Overall	Fragrance ^b	Cutting ^c	Drying ^c	
4	4	4	4	n			Thousands of blooms, holds up well in cold, wet weather
3	3	3	3	n	n		Need close spacing for best cover
3	3	2	3	n	n		Light green foliage, need close spacing for best cover
3	3	2	3	n	n		Foliage dark green with strong red overcast, need close spacing for best cover
2	2	3	2	n	n		Very nice color and dark foliage, need close spacing for best cover
2	2	2	2	n	n		Needs a lot of deadheading, need close spacing for best cover
2	2	2	2	n		y	Some dead plants, attractive compact plant for edging, 1997 All America Selections bedding plant winner
3	3	3	3	n		y	Better than 'Crystal White'
3	4	3	3	n	y	y	Excellent strong stems, large flowers, big, bright, vibrant colors
3	3	3	3	n	y	y	Excellent color, variable flower size, fairly uniform height
3	2	2	2	n	y	y	Outstanding color and stem length, very bright colors, variable flower height, some plants diseased
2	3	3	3	n	y	y	Uneven plant height, nice color
3	2	3	2	n	y	y	Compact flowers in tight fully double and semi double heads, variable height and flower size, some discolored foliage, some plants diseased
3	2	2	2	n	y	y	Some orange mixed with scarlet, variable flower height, shorter than expected, older flowers ragged
3	3	3	3	n	y	y	Fully double, dahlia form blooms, nice stiff stems for cutting
3	3	3	3	n	y	y	Very nice compact plant, needs closer spacing than most zinnias
4	4	4	4	n	y	y	Outstanding multi-colored petite flowers, small flower size, very interesting layered flower colors, dark colored top petals give layered star appearance; tolerates cold, wet weather
3	3	3	3	n		y	Excellent cover of gold flowers, no maintenance
4	4	4	4	n	y	y	Bright orange flowers, petite, no maintenance required
3	2	3	3	n	y	y	Sparse flowers, late to bloom, variable flower height

^a0= dead; 1= poor, disensed, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.
^bn=no, y=yes, sl=slight

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Boy Scout Troop 10:	Boy Scout Leaders & Parents:	Brianna Baurick
Lyman Gillespie	Bill Gryder	Richard Baurick
Robert Gorsline	Richard Gorsline	Lynn Bundy
Peter Jackson	Ben Johnson	Bev Byington
Alex Jacobson	Jesse Tamez	Barbara Carlson
Aaron Johnson	Paul Layer	Barbara Colburn
Eric Johnson	Bob Van Veldhuizen	Jeremiah Chapeau
Max Kopplin	Roxie Spaegle	Deborah Dash
Mark Layer		Kathleen Davis
Kevin Layer	Natalie Tuchman	Susan Dearborn
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All America Selections, 1311 Butterfield Road, Suite 310, Downers Grove, IL 60515

Ball Seed Co., P.O. Box 335, West Chicago, IL 60185

Harris Seeds, 60 Saginaw Dr., P.O. Box 22960, Rochester, NY 14692-2960

Johnny's Selected Seeds, 1 Foss Hill Rd., RR 1 Box 2580, Albion, ME 04910-9731

PanAmerican Seed Co., 622 Town Road, West Chicago, IL 60185-2698

Geo. W. Park Seed Co., 1 Parkton Ave., Greenwood, SC 29647

Stokes Seeds Inc., P.O. Box 548, Buffalo, NY 14240-0548



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