

The University of Tennessee Gardens 2004 Variety Trial Report

Prepared by:

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The University of Tennessee Gardens were initiated 21 years ago and are one of 34 All-America Selections Flower Test Gardens located around the country. The purposes of the Gardens are to promote interest and use of herbaceous plants in the landscape, determine the landscape performance of various herbaceous plants under Tennessee's climatic conditions, and, to introduce new plants into the trade. Over 1000 different herbaceous plants including annuals, perennials, and herbs are tested and evaluated each year from a landscaper's perspective for maintenance, flower and foliage integrity, profuse blooming, and insect and disease resistance. The UT Gardens have two evaluation sites, one in Knoxville representing the Eastern climatic conditions of the state and Jackson, representing the Western climatic conditions of the state. Knoxville and Jackson are approximately 300 miles apart. Having trial locations in both the Eastern and Western portions of the state provides the industry with evaluations from the different climatic regimes found in Tennessee.

Both test Gardens are open and free to the public during daylight hours and are designed for self-guided tours. A field day and open house are annually held in each of the gardens where guided tours and garden performance information is provided. Additional information about the herbaceous plant trial program at the University of Tennessee is available from:

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The 2004 Growing Season: All variety trials were grown in the University of Tennessee Teaching and Research Greenhouses located in Knoxville and Jackson, Tennessee from January through April. Plants were either grown in 4" azalea containers or in 1803 cell packs except for geraniums that were grown in 6" azalea pots. Berger's™ BM1 growing media was used to produce all plants. Plants were planted in the Gardens during the last two weeks of April and through mid-June. One of the wettest summers in Tennessee history along with tornadoes and flooding made for a challenging growing season. We had lots of root diseases and botrytis fungal disease due to the excessive rainy season. When irrigation was required, in Knoxville it was done primarily with subirrigation soaker hoses though overhead irrigation was used in some areas of the garden. All irrigation in Jackson was overhead. No pesticides were used to control any insect or disease problems. In Knoxville, an organic

fertilizer with a 4-4-2 analysis was incorporated into the planting beds prior to planting at the rate of 40-lbs./700 sq. ft. Jackson incorporated 50 lbs. of 15-15-15 per 800 sq. ft.. Both gardens topdressed with ammonium nitrate in June. Treflan tm pre-emergent herbicide was applied 2 weeks after all variety trials were planted. The soil pH for the trial evaluation beds was 7.2. BioComp compost was used as a mulch around all trials in Knoxville while Jackson used hardwood mulch on everything except geraniums, which was mulched with soil conditioner.

Knoxville's Monthly Weather Data

Month	Avg. Min. Temp.	Avg. Max. Temp.	Avg. Rainfall
May	61	82	5.35"
June	66	83	7.76"
July	68	86	7.62"
August	65	83	2.08"
September	61	80	5.25"

Jackson's Monthly Weather Data

Month	Avg. Min. Temp.	Avg. Max. Temp.	Avg. Rainfall
May	63	81	9.77"
June	68	85	4.99"
July	69	87	4.74"
August	64	85	2.99"
September	60	83	3.91"

Acknowledgements

The maintenance and operation of the UT Gardens herbaceous variety trial program would not be possible without the support and help of many individuals. Thanks to James Newburn and Jason Reeves, both UT Gardens Curators, who organized and grew the variety trials and oversaw their installation and season-long maintenance. Thanks to Betty Tipton, UT Gardens Evaluation Assistant, who organized and conducted the summer evaluations in Knoxville and to Jason Reeves who conducted the evaluations in Jackson. Thanks also to Dr. John Hodges and Dr. Bob Hayes and the UT Experiment Station staff for their support in the Gardens operation and maintenance. Thanks to the UT Friends of the Gardens for financially supporting student interns and the UT Gardens curator at the Knoxville Experiment Station during the Gardens' 2004 growing season.

Finally, no gardens would exist without the monetary, supply, and seed/plant donations from numerous horticultural companies. Special thanks are extended to each of the following companies for their donations to the UT Gardens and for supporting the efforts of the herbaceous plant variety trial program:

Ball Seed Company, 622 Town Road, West Chicago, IL 60185

Ball FloraPlant, 622 Town Rd., West Chicago, IL 60185-2698

Beaty Fertilizer Co. Inc. P.O. Box 2878, Cleveland, TN 37320

Benary Seed Company, 1444 Larson St., Sycamore, IL 60178

BioComp, 2116-B BioComp Dr., Edenton, NC 27932

Berger Peat Moss, 121, R.R.1, Saint-Modeste (Quebec) Canada G0L3W0

Bodger Seed Company, 1800 Tyler Ave., El Monte, CA 91733-3618

Fischer USA, 2995 Wilderness Place, Suite 102, Boulder, CO 80301

Goldsmith Seed Company, P. O. Box 1349, Gilroy, CA 95021

J.P. Bartlett Co., 578 Boston Post Rd., Rte 20, South Sudbury, MA 01776

Jackson & Perkins, Box 9100, 2518 South Pacific HWY, Medford, OR 97501

Pan American Seed Company, 622 Town Road, West Chicago, IL 60185

Proven Winners, 550 West State Street Suite D, Sycamore, IL 60178

Sakata Seed America, P.O Box 880, Morgan Hill, CA 95038-0880

Syngenta Seeds, 5300 Katrine Ave., Downers Grove, IL 60515

Twyford International, Inc., 4051 Fudge Rd., Apopka, FL 32703

2004 UT Garden Winners

Despite periods of excessively wet weather, several plants emerged as outstanding performers. The following is a summation of our top picks for the 2004 season.

Best in Show - Celosia 'Fresh Look Red' and 'Fresh Look Yellow' AAS Winners. Outstanding for large plumes, season-long, profuse blooming, and intense color. Self-cleaning and uniform habit. Wet and drought tolerant!

Best New 2004 Variety - New Guinea Impatiens 'Super Sonic Salmon 2004' from Fischer, USA. Impressive for dark burgundy foliage against extremely large, deep salmon flowers.

Best Old Variety - 'Explosive Embers' Ornamental Peppers from Syngenta. Deep purple foliage loaded with purple peppers turning bright red in late summer.

Top 5 Performers:

Coleus 'Kong' series from Ball Seed. Compact plants with mammoth leaves make this series dramatic and notable in the landscape. A real showstopper in the garden. Grown from seed!

Gallardia 'Arizona Sun' AAS Winner. Large, 3-4" blooms were loaded on plants all season-long. Compact habit growing to 10". Bright, showy red and gold color. Self-cleaning!

Verbena 'Temari Bright Pink' from Jackson & Perkins. Uniform habit, compact, profuse blooming, and showy color. Fast-growing habit that quickly adds large clusters of intense pink blooms to containers, window boxes, and the front of borders. Plants are resistant to powdery mildew and thrive in heat and full sun.

Vinca 'First Kiss Blueberry' AAS Winner. Impressive new color. Large blooms. Uniform in habit and fleuiferous.

Zinnia angustifolia x elegans 'Profusion Fire' & 'Profusion Apricot' from Sakata. Great new colors for this hybrid zinnia. 'Fire' is flaming red-orange and 'Apricot' is a soft creamy-apricot. Profuse blooming, self-cleaning, and uniform habit.

Other Notables:

Begonias

Tuberous Begonia 'Non-stop Deep Red' from Benary. Impressive for super large blooms and its heat tolerance. Quite exotic looking!

Waxleaf Begonia 'Olympia Sprint Deep Pink' and 'Braveheart Rose Bicolor' both from Benary. Covered with loads of flowers all season with no disease problems. Great colors for this durable landscape plant. 'Braveheart Rose Bicolor' saturates the garden with beautiful rose and white blooms in sun or shade. Fills containers and beds quickly, sets flowers early and keeps flowering all summer long.

Hiemalis Begonia 'Betulia' series from Fischer is impressive for its heat tolerance and incredible blooming habit. Impressive large, full flowers really stand out making this type begonia and series a must in the garden. 'Red', 'Light', and 'Pink' were all impressive varieties of this series.

Calibrachoa - Colorful Expressions series with 'Blue', 'Rose', and 'Goldrush' from Twyford. 'Milkyway Light Blue' from Twyford is unique with usually small, lavender-blue flowers but loads of them. Best for container use and not landscape beds.

Coleus - Favorite sun coleus among our visitors for their striking and colorful foliage included the seed variety 'Kong' with three different varieties from Ball Seed; 'Solar Eclipse', 'Purple Emperor', 'Fishnet Stockings', 'Gold Brocade', 'Sparkler', and 'Saturn' from Glass House Works; 'Dabbled Apple', 'Black Prince', 'Old Lace', 'Juliet Quartermain' all from Proven Winners were outstanding.

Cosmos 'Cosmic Red' is an outstanding cosmos. Semi-double flowers bloom all season on short, compact plants. The color is vibrant and incredibly showy. Vigorous plants provide abundant, bright scarlet-orange 2 inch blooms all summer. Basically pest and disease free. This is a "no fuss" annual that will thrive on minimal care.

Dianthus 'Garden Spice' series from Twyford provide ever-blooming bouquets of flowers and great garden performance all year!! We have had them all year in the UT Gardens and they flower throughout all the seasons! Only growing to 6", great for a border or for containers.

Eragrostis elliottii 'Wind Dancer' - Love Grass from Pan American grown from seed. Impressive blue foliage and large billows of soft plumes growing to 3 feet.

Geranium Vegetative types: 'Rocky Mountain' series from Fischer; 'Patriot', 'Red Coat', 'Puritan', 'Quaker', 'Faith', 'Abigail', 'Beth', 'Amy' and 'Anne' from Bartlett were all strong bloomers on uniform plants with dark foliage. These selections survived the wet, rainy weather the best. From seed, "Black Magic Rose", an AAS Bedding Plant Award Winner was impressive. The unusual bicolor leaf pattern distinguishes it from all other seed geraniums.

Impatiens - The new Xtreme series from Goldsmith was outstanding. Varieties 'Red', 'Salmon', and 'Violet' were loaded with flowers all season and plants grew into a showy mound about 30" tall.

Lisianthus 'Forever Blue' is an AAS Winner which will provide gardeners their favorite blue color throughout the gardening season. The large 2½-inch single blue flowers decorate the vigorous plants. Plants have a distinct branching habit, producing loads of blooms and a dense plant. Plants will grow to 12 inches when mature. Proven to be heat tolerant, 'Forever Blue' plants will benefit from deadheading like all other eustoma (lisianthus). Great as a border plant or in containers.

Lobelia - A heat tolerant lobelia!! 'Laguna Dark Blue' had indigo blue flowers on compact plants which tolerated the wet weather and heat! A real showstopper in the gardens.

Marigold - The African/American type 'Moonstruck' series from Syngenta was compact and uniform and covered in large, fully-double flowers.

New Guinea Impatiens - 'Sonic' and 'Super Sonic' Series from Fischer always put on a great show. You are guaranteed success with selections from either of these series. Favorites from the Sonic series include: Sonic 'Magic Pink', 'Hot Rose on Gold', 'Light Pink', and 'Scarlet'. Favorites from the Super Sonic series include: Super Sonic 'Burgundy', 'Salmon 2004', 'Pink', 'Magenta', 'Lilac', 'Flame', and 'Red 2004'.

Penstemon – 'Lilliput Rose' from Proven Winners was a deep rose-pink color and loads of blooms. Compact and showy.

Pentas (Star Flower) - The Graffiti series from Benary was short, compact and uniform with good color all season and loads of flowers. Non-stop blooming and no deadheading required.

Petunia - From seed, 'Double Cascade Blue' and 'Dreams Sky Blue' from Pan American' were weather tolerant, bloomed prolifically, and had great blue color. Also, 'Avalanche' series from Bodger was a vigorous spreader. Vegetatively reproduced and groundcover types: Surfinia 'Baby Yellow Compact', 'Baby Blue Compact', and 'Baby Purple' from Jackson & Perkins; Supertunia 'Giant Pink' and 'Bordeaux' from Proven Winners were all impressive. The 'Double Wave' series from Twyford was impressive, vigorous, and carefree in the gardens.

Phlox – The 'Intensia' series from Proven Winners was incredibly show and heat tolerant! "Lavender Glow", 'Lilac Rose', and 'Neon Pink' were all outstanding and quite eye-catching in the gardens.

Plectranthus 'Silver Shield' from Pan American. Grown from seed and growing up to three feet tall. Great silver foliage and soft pink stems offer great texture for mixed containers and landscapes.

Salvia 'Salvatore' from Benary. Short and compact and covered with bright red flowers all season.

Scaevola – The 'Whirlwind' series from Proven Winners was compact with huge, showy blooms. 'Whirlwind Blue' and 'Whirlwind White' were both vigorous and floriferous.

Torenia (Wishbone Flower) 'Summer Wave Amethyst from Jackson & Perkins and 'Catalina Blue' and 'Catalina Pink' from Proven Winners were impressive for their bright vibrant colors and cascading growth habit. The "Snapdragon" like flowers are produced in abundance all season long.

Vinca - 'Jaio Dark Red', 'Sunshower White', 'Sunglow Scarlet with Eye', and 'Sundress White w/ Eye' all from Syngenta. The Titan series from Ball - 'Burgundy', 'Polka Dot', and Lilac' all had large, showy blooms.

Zinnia - The Magellan series from Goldsmith was covered with loads of double flowers and was self-cleaning. Extremely disease resistant looking great late into the season! Beautiful, large 5 to 6inch blooms are radiant on plants 15 -19 inches tall.

All America Selections Winners

Genus	Cultivar	Year	Rating	Comments
Eustoma	Forever Blue (Lisianthus)	2001	4.5	Vibrant purple flower; some yellowing of foliage
Eustoma	Forever White (Lisianthus)	2003	4.5	Floriferous, uniform in size, vigorous; minor foliar damage
Carnation	CanCan Scarlet	2003	4	Some died; remaining are perfect—great flower color! floriferous
Vinca	Jaio Dark Red	2003	5	Beautiful flower color, extremely vigorous, uniform plants
Agastache	Golden Jubilee	2003	4	Beautiful plant, not all uniform in size, minor pest damage late July
Gaillardia	Sundance Bicolor	2003	5	Extremely floriferous; vigorous and colorful healthy foliage
Geranium	Black Magic Rose	2002	4.5	Great color and foliage; very minor pest damage by early August
Celosia Plumosa	Fresh Look Yellow	2004	4.5	Some minor pest damage
Celosia Plumosa	Fresh Look Red	2004	5	Great color, uniform, floriferous
Dianthus	Melody Pink	2000	5	Floriferous, great color and foliage
Dianthus	Corona Cherry Magic	2003	3	Large flowers
Hollyhock	Queeny Purple	2004	5	Beautiful double flower, short, compact habit
Cleome	Sparkler Bush	2002	4	Pest damage appeared late July, vigorous lovely flowers
Gaillardia	Arizona Sun	2005	5	Extremely floriferous, uniform
Rudbeckia hirta	Cherokee Sunset	2002	4.5	Floriferous, not uniform in size but lots of new growth through Aug
Rudbeckia hirta	Prairie Sun	2003	4	Floriferous, not uniform in size; minor pest damage early Aug
Gypsophila	Gypsy Deep Rose	2004	3.5	Floriferous, soft texture
Vinca	First Kiss Blueberry	2005	5	Perfect plants; uniform, floriferous, great color and foliage
Nicotiana	Avalon Bright Pink	2001	4	Great flower color, uniform
Petunia	Limbo Violet	2004	4	Great flower color
Petunia	Blue Wave	2003	5	Great color, vigorous and uniform
Petunia	Lavender Wave	2002	4.5	Foliage yellowing by early July
Petunia	Tidal Wave Silver	2002	4.5	Foliage yellowing by early July
Petunia	Merlin Blue Mom	2003	0	Dead by end of June, root rot from wet site
Ornamental Millet	Purple Majesty	2003	4.5	Minor pest damage; striking foliage, strong and tall
Ornamental Pepper	Chilly Chili	2002	5	Great colorful fruit; perfect specimens
Portulaca	Margarita Rosita	2001	4.5	Extremely floriferous, vigorous; great flower color; fading mid- Aug
Tithonia	Fiesta del Sol	2000	3	Extremely floriferous; foliage became diseased by end of July
Viola/Pansy	Ultima Morpho	2002	0	Dead by end of June due to heat and root rot due to wet site
Cosmos	Cosmic Orange	2000	4.5	Lovely flower, floriferous; some perished but others very vigorous
Vinca	Stardust Orchid	2000	4	Lots of flowers, great color and foliage; not uniform, some yellowing
Vinca	Jaio Scarlet Eye	2002	5	Great color! Uniform, full of new growth, very healthy foliage
Zinnia	Profusion White	2001	4.5	Extremely floriferous; very minor pest damage by August
Zinnia	Magellan Coral	2005	4.5	Great color! Large and full, minor pest damage by August
Sunflower	Ring of Fire	2001	5	Great flower bicolor color
Sunflower	Soraya	2000	4	Strong and tall, great flowers

Fleuroselect Gold Medal Winners

Genus	Cultivar	Source	June	July	Aug-Sept	Rating	Comments
Dianthus	CanCan Scarlet	Sakata	4.5	2	3	3.2	Lots of buds, great color, but most dead by end of July
Celosia	Fresh Look Red	Benary	5	5	5	5	Fabulous flower; dense and uniform; minor pest damage
Dianthus	Noverna Purple	Kieft Seeds	3.5	3	3	3.2	Floriferous, fairly healthy foliage; some dead by July
Coreopsis	Heliot	S&G	3.5	4	3.5	3.7	Dense, compact, uniform plant; floriferous early
Rudbeckia	Prairie Sun	Benary	5	5	3.5	4.5	Beautiful, floriferous plants; pest damage by August
Salvia	Merleau Blue	S&G	4	2.5	2	2.8	Most dried out by early Aug
Coreopsis	Rising Sun	PanAmerican Seed	5	5	4.5	4.8	Tons of flowers, buds; healthy dense foliage
Gaillardia	Arizona Sun	Benary	5	4.5	4.5	4.7	Extremely floriferous, compact but not all uniform in size
Nicotiana	Bright Pink	Floranova	4.5	3	3	3.5	Very floriferous, some pest damage by July
Petunia	WonderWave Lavender	Kirin Brewery Co. Ltd.	5	5	4.5	4.8	Very floriferous, nice trailing habit, vigorous
Petunia	Wonderwave Blue	Kirin Brewery Co. Ltd.	5	5	4.5	4.8	Very floriferous, extremely healthy foliage
Verbena	Quartz Burgundy	PanAmerican Seed	4	5	4.5	4.8	Beautiful flower color; most floriferous end of July
Zinnia	Profusion White	Sakata	5	5	4	4.7	Dense growth, floriferous,
Zinnia	Profusion Cherry	Sakata	5	5	4	4.7	Great color, dense growth
Phlox	Grammy Pink/White	Kieft Seeds	4	3	-	3.5	Floriferous; foliage yellowing by late June; dead by Aug

2004 Annual Variety Trials

Abutilon- Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Voodoo	Proven Winners	4	5	5	4.6	Bushy habit; floriferous, showy
Dame Vanessa	Proven Winners	4	5	5	4.6	Bushy habit; floriferous, showy

Ageratum

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Bouquet White	Benary	4	4	4	4	Dense growth, beautiful flower; tall and strong
Blue Fields	S & G Flowers	5	5	5	5	Dense, healthy, floriferous, uniform; nice purple flower

Summation: 'Bouquet White' was tall and not as floriferous as 'Blue Fields'.

Ageratum - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Artist Rose	Proven Winners		5	5	5	Weather durable; profuse blooming
Artist Alto Blue	Proven Winners		5	5	5	Great color; profuse blooming

Anagallis - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Spice	Proven Winners		5	5	5	Compact; flowers non-stop all season
Cinnamon	Proven Winners		5	5	5	Compact; profuse blooming

Begonia – Seed - Tuberous

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Nonstop Deep Red	Benary		5	5	5	Striking color, extremely floriferous and showy

Summary: Huge, showy, double flowers. Performed well in both containers and landscape beds. Non-stop bloom habit, self-cleaning. Incredibly showy!

Begonia – Seed - Waxleaf

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Braveheart Rose Bicolor	Benary	5	5	5	5	Extremely floriferous, dainty flower, no signs of damage
Olympia Sprint Deep Pink	Benary	5	4.5	5	4.8	Dense, floriferous, lovely color; minor pest damage
Bayou Pink Bicolor	Goldsmith	5	5	5	5	Intense color, uniform

Summation: All were great performers, uniform in habit, and incredibly showy in the landscape.

Begonia – Vegetative – Non-stop

Cultivar	Source	June	July	Aug-Sept	Average	Comments
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Betulia Red	Fischer USA		4.5	5	4.75	Dense, uniform, lovely flower; healthy foliage
Betulia Light	Fischer USA		4	4.5	4.25	Not as floriferous as Red or Pink, but healthy plants
Betulia Pink	Fischer USA		4	5	4.5	Dense, uniform, lovely flower; healthy foliage

Summation: Incredible, showy flowers on dense, full plants. Great performance in containers and landscape beds.

Brachyscome - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Blue Zephyr	Proven Winners		5	5	5	Showy color, quite floriferous

Calendula

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Bon Bon Yellow	Bodger Seeds, Ltd.	3	0	0	1	Sparse, weak foliage

Summary: Not heat tolerant.

Calibrachoa - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Million Bells Bush Blue	Jackson & Perkins		5	5	5	Great color, lush growth
Million Bells Trailing Pink Pastel	Jackson & Perkins		4.5	5	4.75	Bright flower color, healthy plants, nice habit
Super Bells Light Pink	Proven Winners		4.5	4.5	4.5	Not as many flowers by August; vigorous foliage
Colorful Expressions Blue	Twyford		5	5	5	Bright flower color, healthy plants, nice habit
Colorful Expressions Goldrush	Twyford		5	5	5	Great color, floriferous
Colorful Expressions Rose	Twyford		5	5	5	Intense color, floriferous
Milky Way Light Blue	Twyford		5	5	5	Great color, small flower but loads of blooms

Summary: All heat tolerant, great for containers; prolific bloomers all season.

Celosia plumosa

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Castle Orange	America Takii, Inc.	4	3.5	3.5	3.7	Great color, very floriferous, not as uniform
Castle Yellow	American Takii, Inc.	3	3.5	3.5	3.7	Floriferous; not uniform
Fresh Look Red	Benary	5	5	5	5	Hugh flowers, quite showy
Fresh Look Yellow	Benary	5	5	5	5	Healthy and floriferous, uniform in size

Summation: The 'Castle' series suffered from too much rain in its planting location. The 'Fresh Look' series was in a better drained site and so had no root disease.

Centradenia - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Purple Showers	Proven Winners		5	5	5	Great foliage; loads of blooms all season

Cestrum - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Ruby Clusters	Proven Winners		5	5	5	Showy blooms; great color

Coleus - Seed

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Kong Rose	Ball	5	5	5	5	Lush, striking foliage
Kong Scarlet	Ball	5	5	5	5	Lush, striking foliage

Summary: Huge, dramatic foliage makes this series incredibly striking.

Coleus - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Old Lace	Proven Winners		5	5	5	Dense and compact , spreading habit
Black Prince	Proven Winners		5	5	5	Extremely striking foliage for dark purple color
Dappled Apple	Proven Winners		5	5	5	Bright gold and sun tolerant with no sun burn
Juliet Quatermain	Proven Winners		5	5	5	Deep orange/bronze color
Religious Radish	Proven Winners		5	5	5	Full and lush, deep color
Ruffles	Proven Winners		5	5	5	Deep pink, dense and lush

The Flume	Proven Winners		5	5	5	Full and lush
Splash	Proven Winners		5	5	5	Full and lush

Summation: All of the coleus did extremely well and offered a wide variety of color and texture to our gardens. All were extremely sun tolerant.

Coreopsis

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Early Sunrise	PanAmerican Seed	4.5	4.5	4.5	4.5	Still budding at end of Aug; lots of flowers; dense and uniform
Heliot	S & G Flowers	4	4	3.5	3.8	Dense, compact; very few flowers, minor pest damage in Aug

Cosmos

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Cosmic Red	Benary	4.5	4.5	5	4.7	Great deep red color
Psyche Mix	Hem Zaden	5	5	5	5	Outstanding color
Versailles Mix	Sakata Seed America	4.5	5	4.5	4.7	Extremely healthy, graceful foliage, floriferous; outstanding flower

Summation: All cosmos did extremely well, were lush and full of blooms. 'Cosmic Red' is an outstanding color addition to cosmos.

Delphinium

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Summer Stars	Benary	5	-	-	5	Gone to seed by end of June

Summation: Beautiful colors and uniform habit.

Dianthus - Seed

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Purple Bouquet	PanAmerican Seed	5	3.5	3.5	4	Great flower color, many buds in late June
Telstar Purple	American Takii	5	4	4.5	4.5	Not uniform but dense, healthy & floriferous; great color
Ideal Cherry Picotee	PanAmerican Seed	5	4	3.5	4.2	Good color
Telstar Picotee	American Takii	5	4	4	4.4	Lots of blooms, uniform

Summation: Peak performance was in June and early July and then plants were deadheaded and new growth appeared.

Dianthus - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Garden Spice Red	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage
Garden Spice Marble	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage
Garden Spice Coral	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage
Garden Spice Fuschia	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage
Garden Spice Pink	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage
Garden Spice White	Twyford		5	5	5	Great flower color, very floriferous; healthy foliage

Summation: Showy, blue foliage with non-stop blooming all season. We have had this series overwinter well in our Mid-South gardens making it a great fall thru spring Plant.

Euphorbia - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Diamond Frost	Proven Winners		5	5	5	Open, airy habit; profuse blooming

Gaillardia

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Arizona Sun	Benary	4.5	4.5	5	4.7	Lots of blooms and new growth; extremely healthy but not uniform

Gaura - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Karalee Petite Pink	Proven Winners		4.5	4.5	4.5	New buds into August; compact; profuse blooming all season

Geranium - Seed

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Bull's Eye Light Pink	Ball	3.5	4.5	4.5	4.2	Great flower color; overall healthy plants
Bull's Eye Cherry	Ball	3.5	2.5	2	2.6	Sparse, most dying by end of July; great flower color

Summation: A difficult growing season for all geraniums due to frequent and abundant rainfall. Geraniums were plagued with botrytis blight throughout the entire season and various ones exhibited root rot due to planting site retaining too much water.

Geranium, Exotic - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Appleblossom	Fischer USA		4.5	4.0	4.25	Lots of new growth into August; not uniform
Graffiti Fire	Fischer USA		4	3	3.5	Healthy foliage, few new buds
Graffiti Pink	Fischer USA		2	2.5	2.25	Healthy foliage, no flowers at all by late July
Graffiti Salmon Rose	Fischer USA		3	2.5	2.75	Healthy foliage, few flowers
Happy Orange	Fischer USA		1.5	1	1.25	Most dead by August; one or two nice flowers
Happy Violet	Fischer USA		2.5	2	2.25	Foliage ok, no flowers
Shalimar	Fischer USA		3	2	2.5	Weak, dry foliage, few flowers by early Aug
Tricolor	Fischer USA		4	3	3.5	Healthy foliage, few flowers by early Aug
Wilhelm Langguth	Fischer USA		4	4	4	Healthy foliage, few flowers by early Aug

Summation: A difficult growing season for all geraniums due to frequent and abundant rainfall. Geraniums were plagued with botrytis blight throughout the entire season and various ones exhibited root rot due to planting site retaining too much water.

Geranium, Ivy - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Amethyst	Fischer USA		5	4	4.5	Nice trailing habit, lots of new growth into August
Barock	Fischer USA		5	4	4.5	Floriferous, strong foliage
Beach	Fischer USA		5	4	4.5	Healthy foliage and blooms, fairly floriferous into August
Black Magic	Fischer USA		3.5	4	3.75	Nice trailing habit
Chirocco	Fischer USA		4.5	4	4.25	Healthy foliage and blooms, fairly floriferous into August
Holiday Rose	Fischer USA		4	4	4	Healthy foliage and blooms, fairly floriferous into August
Holiday Ruby Dream	Fischer USA		5	4.5	4.75	Vigorous into late August, healthy
Holiday Purple Dream	Fischer USA		4.5	4.5	4.5	Healthy foliage and blooms, fairly floriferous into August
Luna 2005	Fischer USA		4.5	4.5	4.5	Healthy foliage and blooms, fairly floriferous into August
Marimba	Fischer USA		4	4	4	Healthy foliage, fairly floriferous into early August
Maxime	Fischer USA		4	3.5	3.75	Beautiful strong red, foliage drying by early August
Molina 2005	Fischer USA		4	4	4	Healthy foliage and blooms, fairly floriferous into August
Picasso	Fischer USA		3.5	4	3.75	Great flower color, new growth in August
Purple Dream	Fischer USA		5	4.5	4.75	Beautiful, full growth, healthy foliage
Ragtime 2000	Fischer USA		4.5	4.5	4.5	Healthy foliage and blooms, fairly floriferous into August
Reggae Bright Red	Fischer USA		4.5	4	4.25	Great red flowers
Ruby Dream	Fischer USA		4	4	4	Great color, vigorous growth
Shiva 2003	Fischer USA		5	5	5	Strong, full vigorous growth

Summer Rose Lilac	Fischer USA		5	5	5	Strong, full vigorous growth
Taj Mahal	Fischer USA		3.5	4	3.75	Good growth, not as many blooms
Tutti Frutti	Fischer USA		5	4.5	4.75	Strong foliage, great flower color, nice trailing habit
Blue Blizzard	Fischer USA		4.5	4	4.25	Great habit, strong flowering
Holiday Red Blizzard	Fischer USA		5	5	5	Very healthy foliage, new growth into late August
Pink Blizzard	Fischer USA		5	5	5	Very healthy foliage, new growth into late August
Purple Blizzard	Fischer USA		4.5	4	4.25	Great habit, strong flowering
White Blizzard	Fischer USA		5	5	5	Great habit, strong flowering
Acapulco Compact Cascade	Fischer USA		5	5	5	Very healthy foliage, new growth into late August
Bright Cascade	Fischer USA		4.5	4	4.25	Great habit, strong flowering
Lilac Mini Cascade	Fischer USA		4.5	4.5	4.5	Very minor pest damage, good flowers
Red Mini Cascade	Fischer USA		4	4.5	4.25	Great flowers
Salmon Compact Cascade	Fischer USA		5	4.5	4.75	Very healthy foliage, new growth into late August
Silver Cascade Pink	Fischer USA		5	4.5	4.75	Great habit, new growth, healthy variegated foliage
White Compact Cascade	Fischer USA		4	4.5	4.25	Great habit, strong flowering
Light Pink	J.P. Bartlett Co., Inc.		5	5	5	Extremely healthy foliage and flowers; strong flowering habit
Dark Pink	J.P. Bartlett Co., Inc.		5	5	5	Beautiful flower color, nice trailing habit; healthy foliage and flowers
Light Purple	J.P. Bartlett Co., Inc.		5	4.5	4.75	New growth into September; strong flowering habit
Bluebeard	J.P. Bartlett Co., Inc.		5	4	4.5	Healthy foliage and flowers, not much new growth in late August
Mahogany	J.P. Bartlett Co., Inc.		4.5	4.5	4.5	Great flowering, lots of new growth into Sept

Summation: The Ivy Geraniums were excellent performers throughout the summer despite the abundant rainfall. All of the Ivy Geraniums were deadheaded at least once every two weeks throughout the summer.

Geranium, Zonal - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Alba 2005	Fischer USA		4	3.5	3.75	Floriferous, lots of new growth into Aug; some yellowing foliage
Avenida	Fischer USA		4.5	3.5	4	Great flower color, floriferous into Aug; some yellowing foliage
Avenida Fire	Fischer USA		4	3.5	3.75	Floriferous into Aug; small plants; some yellowing in mid-Aug
Blues 2001	Fischer USA		4.5	4	4.25	Great flower color
Bravo Dark Pink	Fischer USA		3.5	2.5	3	Beautiful flower but not flowering well
Bravo Light Pink	Fischer USA		4	3	3.5	Great flower, foliage somewhat weak and yellow by early Aug
Bravo Pastel	Fischer USA		4.5	4	4.25	Floriferous, healthy foliage, new growth into late Aug
Calypso 2001	Fischer USA		4.5	4	4.25	Floriferous, healthy foliage, new growth into late Aug
Casanova 2003	Fischer USA		4.5	4	4.25	Floriferous, healthy foliage, new growth into late Aug
Charleston 2001	Fischer USA		3	3	3	Great flower color, but few flowers and sparse foliage
Charmant	Fischer USA		4.5	4	4.24	Floriferous, healthy foliage, new growth into late Aug
Diablo	Fischer USA		3	3.5	3.25	Great flower color, few flowers, sparse foliage; some new buds-Aug
Dolce Vita 2004	Fischer USA		4.5	3.5	4	Floriferous, healthy foliage; foliage declining by mid-August
Flamingo	Fischer USA		4.5	3.5	4	Floriferous, healthy foliage; foliage declining by mid-August

Himalaya Red	Fischer USA		3	2	2.5	Few flowers, sparse foliage in July
Jazz	Fischer USA		4.5	4.5	4.5	Dense, healthy foliage; lots of new growth
Kardino 2001	Fischer USA		4	4	4	Healthy foliage, new growth into August
Magic	Fischer USA		3	2.5	2.75	Sparse, few flowers, no new growth
Montevideo	Fischer USA		3	2.5	2.75	Sparse, few flowers, no new growth
Noblesse	Fischer USA		4	4	4	Floriferous, some new growth; striking color
Omega 2000	Fischer USA		4.5	3.5	4	Great foliage and color early; foliage declining by mid-Aug
Rocky Mtn. Dark Red	Fischer USA		4.5	3	3.75	Great foliage and color early; foliage declining by mid-Aug
Rocky Mtn. Deep Rose	Fischer USA		2.5	1.5	2	Most dead by August; no flowers
Rocky Mtn. Lavender	Fischer USA		4.5	3.5	4	Minimal pest damage
Rocky Mtn. Lavender Pink 2004	Fischer USA		4.5	3.5	4	Nice foliage and color; minimal pest damage
Rocky Mtn. Light Pink	Fischer USA		5	4	4.5	Extremely floriferous in July; remained healthy in to late August
RockyMtn. Light Salmon	Fischer USA		4	4	4	Minor pest damage
Rocky Mtn. Magenta	Fischer USA		5	4	4.5	Beautiful flower, healthy foliage
Rocky Mtn. Orange	Fischer USA		5	4	4.5	Beautiful flower, healthy foliage
Rocky Mtn. Red 2003	Fischer USA		3	3	3	Sparse, yellowing foliage
Rocky Mtn. Royal Red	Fischer USA		4.5	4	4.25	Foliage beginning to decline early Aug
Rocky Mtn. Salmon 2004	Fischer USA		4.5	3.5	4	Foliage beginning to decline early Aug
Rocky Mtn. Salmon Rose	Fischer USA		4.5	4.5	4.5	Foliage beginning to decline early Aug
Rocky Mtn. Scarlet	Fischer USA		5	4.5	4.75	Large blooms, extremely floriferous; great flower color
Rocky Mtn. Violet	Fischer USA		4.5	4	4.25	Minor yellowing; not uniform
Rocky Mtn. White	Fischer USA		4.5	4.5	4.5	Healthy, uniform in size, lots of new growth
Samba	Fischer USA		3.5	4	3.75	Great color, lots of new growth; not uniform in size
Schoene Helena	Fischer USA		4	4.5	4.25	Great color, lots of new growth
Swing 2001	Fischer USA		5	4.5	4.75	Dense, full, vigorous; great color
Tango	Fischer USA		2.5	3.5	3	Healthy foliage; few flowers
Tango Dark Red	Fischer USA		2	2	2	Foliage mediocre; no new growth
Tango Fire	Fischer USA		4.5	3	3.75	Great flower color; pest damage apparent in early Aug.
Tango Hot Pink	Fischer USA		2	1.5	1.75	Most plants dead in July; very few flowers

Tango Lavender	Fischer USA		2	2.5	2.25	Most plants dead in July; survivors had new growth
Tango Lavender Pink	Fischer USA		2.5	2	2.25	Most plants dead in July; survivors had new growth
Tango Light Orchid	Fischer USA		2.5	2	2.25	Most plants dead in July; survivors had new growth
Tango Magenta	Fischer USA		2.5	2	2.25	Some dead by July; very few flowers, foliage just ok
Tango Neon Purple	Fischer USA		2.5	2.5	2.5	Sparse, tiny, no new growth
Tango Orange	Fischer USA		4.5	4	4.25	Great foliage and color; nice dense growth
Tango Pink	Fischer USA		4.5	4	4.25	Great foliage and color; nice dense growth
Tango Violet	Fischer USA		2.5	2.5	2.5	Great flower, but tiny, sparse plants
Tango White	Fischer USA		3.5	3	3.25	Lots of flowers and buds, but sparse, dry foliage
Twist 2001	Fischer USA		4.5	3.5	4	Great flower color; pest damage apparent in early Aug.
Olivia	J.P. Bartlett Co., Inc.		3	3	3	Floriferous; foliage weak
Abigail	J.P. Bartlett Co., Inc.		5	4.5	4.25	Floriferous, healthy foliage, some new growth into Aug.
Samaritan	J.P. Bartlett Co., Inc.		4	3	3.5	Minor pest damage; foliage yellowing by Aug
Puritan	J.P. Bartlett Co., Inc.		5	5	5	Extremely floriferous, vigorous
Quaker	J.P. Bartlett Co., Inc.		5	4.5	4.75	Extremely floriferous
Anne	J.P. Bartlett Co., Inc.		5	5	5	Extremely floriferous, vigorous
Rebekah	J.P. Bartlett Co., Inc.		1.5	1	1.25	Most dead by late July due to root rot/botrytis
Light Lavender Pink	J.P. Bartlett Co, Inc.		5	4	4.5	Floriferous, some new growth into Aug
Patriot	J.P. Bartlett Co, Inc.		4	5	4.5	Nice flower color; new growth in early August
Red Coat	J.P. Bartlett Co, Inc.		4.5	5	4.75	Extremely floriferous, vigorous into August
Mohawk	J.P. Bartlett Co, Inc.		4	4.5	4.25	Very floriferous
Amy	J.P. Bartlett Co, Inc.		4.5	4	4.25	Floriferous, healthy foliage, some new growth into Aug.
Beth	J.P. Bartlett Co, Inc.		5	4.5	4.75	Very floriferous
Mayday	J.P. Bartlett Co, Inc.		3	3	3	New buds in Aug.; but weak, non-vigorous growth
Fantasia Pink Shell	Ball Flora Plant		3.5	3	3.25	Good color; overall, plants not vigorous
Fantasia Coral Improved	Ball Flora Plant		3	3	3	Good color, overall, plants not vigorous
Fantasia Strawberry Sizzle	Ball Flora Plant		3.5	3	3.25	Good color, overall, plants not vigorous
Cardinal Red	Ball Flora Plant		3.5	3	3.25	Good color, overall, plants not vigorous
Shocking Pink	Ball Flora Plant		3.5	3	3.25	Good color, overall, plants not vigorous
Salmon	Ball Flora Plant		3	3	3	Good color, overall, plants not vigorous
Flamingo Rose	Ball Flora Plant		3	3	3	Good color, overall, plants not vigorous

Summation: A difficult growing season for all geraniums due to frequent and abundant rainfall. Geraniums were plagued with botrytis blight throughout the entire season and various ones exhibited root rot due to the planting site retaining too much water. Overall, flowering and vigor was not what we are use to seeing among our geranium trials. Geraniums were deadheaded every two weeks.

Gypsophila - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Festival Star	Proven Winners		5	4	4.5	Floriferous; dense, healthy foliage

Hypoestes

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Splash White Select	PanAmerican Seed	4.5	4.5	4	4.3	Dense, healthy, compact; very striking foliage, minor damage
Splash Pink Select	PanAmerican Seed	4.5	4.5	4.5	4.5	Very striking foliage, not all uniform in size

Impatiens

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Xtreme Rose	Goldsmith	4	5	5	4.7	Strong color, large blooms, healthy foliage
Xtreme Salmon	Goldsmith	4	4.5	5	4.5	Strong color, large blooms, healthy foliage
Xtreme Violet	Goldsmith	4	5	5	4.7	Strong color, large blooms, healthy foliage
Xtreme Red	Goldsmith	4	4	5	4.3	Strong color, large blooms, healthy foliage
Tempo Peach Butterfly	Bodger	4	4	5	4.3	Good color and flower pattern
Showstopper Peach Flair	Ball Seed	4	4	5	4.3	Good color, uniform

Impatiens, New Guinea – Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Sonic Amethyst	Fischer USA		4	4	4	Beautiful flower; minor pest damage
Sonic Burgundy	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Cattleya	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Cherry	Fischer USA		4.5	5	4.75	
Sonic Dark Salmon	Fischer USA		4.5	5	4.75	
Sonic Hot Pink	Fischer USA		5	5	5	
Sonic Hot Rose on Gold	Fischer USA		5	5	5	
Sonic Light Lavender	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Light Pink	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Lilac	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Magic Pink	Fischer USA		5	5	5	
Sonic Orange	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Pastel 2003	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth

Sonic Pink	Fischer USA		4.5	4	4.25	Size not uniform
Sonic Purple	Fischer USA		4	4	4	Not especially floriferous
Sonic Red 2003	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Sonic Red on Gold	Fischer USA		4.5	5	4.75	Beautiful plant overall, not especially floriferous until August
Sonic Salmon	Fischer USA		5	5	5	
Sonic Salmon Ice	Fischer USA		5	5	5	
Sonic Scarlet	Fischer USA		4	4	4	Minor pest damage
Sonic Scarlet Blush	Fischer USA		5	5	5	
Sonic Sweet Burgundy	Fischer USA		5	5	5	
Sonic Sweet Cherry	Fischer USA		4.5	5	4.75	Gorgeous flower; extremely healthy plant; dense and uniform
Sonic White 2003	Fischer USA		4.5	5	4.75	Beautiful plant overall, not especially floriferous until August
Sonic Zorro Red	Fischer USA		5	5	5	
Super Sonic Burgundy	Fischer USA		5	5	5	
Super Sonic Cherry Cream	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Coral Ice 2003	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Dark Salmon	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Flame	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Hot Pink 2004	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Lavender	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Light Pink	Fischer USA		4	5	4.5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Lilac	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Magenta	Fischer USA		5	5	5	Outstanding color!
Super Sonic Orchid	Fischer USA		5	5	5	
Super Sonic Pastel Pink 2004	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Peach	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Pink	Fischer USA		4.5	4.5	4.5	Minor pest damage
Super Sonic Red 2004	Fischer USA		5	5	5	
Super Sonic Salmon 2004	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Sweet Cherry	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth
Super Sonic Violet Ice	Fischer USA		5	5	5	
Super Sonic White 2003	Fischer USA		5	5	5	Floriferous, extremely healthy plant; dense, uniform growth

Summation: All New Gunieas were grown in raised planter beds and all were incredible performers all season. The site received morning sun and afternoon shade and abundant rainfall all season. All were lush and quite floriferous. The ‘Sonic’ and ‘Super Sonic’ series are both fantastic series for the Mid-South region.

Lobelia – Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Laguna Dark Blue	Proven Winners		5	5	5	Incredible indigo blue flower color; dense foliage, heat tolerant!

Marigold

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Spun Lemon	Sahin	4	4	2.5	3.5	Very floriferous, not uniform; mildew, botrytis at end of Aug rating
Antiqua Orange	Goldsmith Seeds	5	5	4	4.7	Botrytis beginning to appear by late Aug
Disco Orange	Bodger	5	5	5	5	Large flowers, compact habit, botrytis resistant
Disco Yellow	Bodger	5	5	5	5	Large flowers, compact habit, botrytis resistant
Moonstruck Yellow	Sygenta	5	5	5	5	Large flowers, compact habit, botrytis resistant
Moonstruck Orange	Sygenta	5	5	5	5	Large flowers, compact habit, botrytis resistant

Summation: The 'Disco' and 'Moonstruck' series were both highly botrytis resistant especially considering the wet, rainy season.

Nemesia – Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Sky Blue Lagoon	Proven Winners		5	5	5	Compact; profuse blooming; flowers erect
Compact Pink Innocence	Proven Winners		5	5	5	“ “ “
Safari Rose	Proven Winners		5	5	5	“ “ “

Summation: Good flower power in all selections. Showy in the landscape.

Oenothera - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Lemon Drop	Proven Winners		3	4	3.5	Fine-textured foliage; blooming increased as season progressed

Summation: Bright, clear yellow; good color all season.

Ornamental Grass

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Elliottii 'Wind Dancer'	PanAmerican Seed	5	5	5	5	Tall and graceful, unique garden feature

Ornamental Pepper

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Explosive Ember	S & G Flowers	5	5	5	5	Lush and healthy, striking fruit and foliage
Pretty in Purple	Johnny's Selected Seeds	5	5	5	5	Lush and healthy, striking fruit and foliage
Masquerade	PanAmerican Seed	5	5	5	5	Lush and healthy, striking fruit and foliage

Summation: All were fantastic performers in the gardens and loaded with showy fruit; erect above the foliage.

Osteospermum

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Lime Spice	Proven Winners		5	4	4.5	Great color; profuse flowering habit
Mt. Dandenong	Proven Winners		4	4	4	Fewer flowers but great color
Soprano White	Proven Winners		5	5	5	Compact; profuse flowering

Penstemon - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Lilliput Rose	Proven Winners		4	5	4.5	Great color; profuse flowering; compact habit

Pentas

Series	Source	June	July	Aug-Sept	Average	Comments
Graffiti White	Benary	3.5	4.5	4	4	Floriferous, new growth in July, some yellowing in August
Graffiti Violet	Benary	3.5	5	4	4.2	Floriferous, new growth in July, some yellowing in August
Graffiti Pink	Benary	3.5	4.5	5	4.3	Lots of flowers and buds, very healthy foliage
Graffiti Bright Red	Benary	3	4.5	5	4.2	Lots of flowers and buds, very healthy foliage

Summation: Compact, uniform, and self-cleaning.

Petunia

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Carpet Buttercream	PanAmerican Seed	4	4	4	4	Great color; good vigor, good show
Easy Wave Pink	PanAmerican Seed	4.5	4.5	4	4.3	Floriferous,dense, uniform
Merlin Red Picotee	Sakata Seed America	3	0	0	1	Dead by end of July due to root rot and wet planting site
Celebrity Red Frost	Bodger Seeds Ltd.	2	1	0	1.5	Most dead by end of July due to root rot and wet planting site
Easy Wave Red	PanAmerican Seed	4	4.5	5	4.5	Floriferous with lots of new growth
Double Cascade Blue	PanAmerican Seed	3.5	4.5	4.5	4.2	Strong flowering, dense habit, great blue color
Dreams Burgundy Picotee	PanAmerican Seed	3.5	3	3.5	3.2	Not as floriferous as others
Dreams Sky Blue	PanAmerican Seed	3.5	4.5	4.5	4.2	Floriferous, new growth, healthy foliage, great blue color
Avalanche Cherry	Bodger Seeds, Ltd.	4	4.5	5	4.5	Floriferous and dense; great flower color
Avalanche Lavender	Bodger Seeds, Ltd.	5	4.5	5	4.8	Floriferous and dense; great flower color
Avalanche Lilac	Bodger Seeds, Ltd.	5	5	5	5	Extremely floriferous and dense
Avalanche Pink	Bodger Seeds, Ltd.	4	3.5	4	3.8	Strong flowering, dense habit
Avalanche Red	Bodger Seeds, Ltd.	4.5	5	4	4.5	Great flower color, floriferous; foliage sparse by end of July
Avalanche Rose	Bodger Seeds, Ltd.	4.5	4.5	4	4.3	Dense flowering, lots of new growth, not as uniform
Avalanche Salmon Shades	Bodger Seeds, Ltd.	4	4	5	4.3	Lots of flowering; improved in Aug
Avalanche Tropical	Bodger Seeds, Ltd.	4	3	4	3.6	Lots of flowering; improved in Aug
Avalanche White	Bodger Seeds, Ltd.	4	3	4	3.6	Lots of flowering; improved in Aug

Summary: Lots of rain tested our petunia trials but overall, most did well and proved to be weather resistant.

Petunia, Double Wave - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Blue Vein	Twyford		5	5	5	Extremely floriferous and vigorous; great color
Lavender	Twyford		5	5	5	Extremely floriferous and vigorous; great color
Misty Lilac	Twyford		5	5	5	Extremely floriferous and vigorous; great color
Purple	Twyford		5	5	5	Extremely floriferous and vigorous; great color
Rose	Twyford		5	5	5	Extremely floriferous and vigorous; great color
Pink	Twyford		5	5	5	Extremely floriferous and vigorous; great color
White	Twyford		5	5	5	Extremely floriferous and vigorous

Petunia, Experimental - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Pink	Sakata		5	5	5	Great color, very healthy plants with upright habit

Purple	Sakata		5	4	4.5	Upright habit, not as many flowers but healthy plants
White	Sakata		5	5	5	Floriferous, upright habit, vigorous foliage

Petunia, Supertunia - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Bordeaux	Proven Winners		5	5	5	Dense, uniform foliage, vigorous blooming; large flowers
Silver	Proven Winners		5	5	5	Dense, uniform foliage, vigorous blooming; large flowers

Petunia, Surfina - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Victorian Cream	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Red	Jackson & Perkins		4	4.5	4.25	Fewer flowers
Victorian Pearl	Jackson & Perkins		5	4.5	4.75	Floriferous, foliage a bit scraggly but healthy
Baby Purple Compact	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Sugar Plum	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Lavender Lace	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Patio White	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Patio Misty Pink	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Baby Blue Compact	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Baby Pink Compact	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Baby Purple Improved	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Baby White Compact	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Baby Yellow Compact	Jackson & Perkins		4.5	5	4.75	Pale flower color; extremely healthy with good trailing habit
Patio Blue	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Patio Yellow	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Rose Veined	Jackson & Perkins		5	5	5	Great flower color; extremely healthy with good trailing habit
Yellow Bush	Proven Winners		5	5	5	Extremely healthy, floriferous plant with good trailing habit
Amethyst	Proven Winners		5	5	5	Extremely healthy, floriferous plant with good trailing habit

Summation: All great performers for the Mid-South region. Rain tolerant. Small, compact plants but showy in containers or in landscape beds.

Phlox - Vegetative

Series	Source	June	July	Aug-Sept	Average	Comments
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Intensia Lavendar Glow	Proven Winners		5	5	5	Colorful and floriferous
Intensia Lilac Rose	Proven Winners		5	5	5	Colorful and floriferous
Intensia Neon Pink	Proven Winners		5	5	5	Colorful and floriferous

Summation: Incredibly heat tolerant, showy annual.

Plectranthus

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Silver Shield	PanAmerican Seed	5	5	5	5	Large, striking extremely healthy and showy foliage

Summation: Impressive selection grown from seed. Grew to 3 feet tall and just as wide.

Portulaca - Seed

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Margarita Peppermint	PanAmerican Seed	3.5	4	4.5	4	Large, showy blooms, increased flowering as season progressed

Portulaca - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Sunset Fire	Proven Winners		4.5	5	4.75	Great color, very floriferous

Salvia

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Salvatore	Benary	4.5	5	5	4.75	Uniform, floriferous, compact

Scaevola - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Whirlwind Blue	Proven Winners		5	5	5	Extremely floriferous, strong trailing habit
Whirlwind White	Proven Winners		5	5	5	Extremely floriferous, strong trailing habit

Scoparia - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Melongolly Blue	Proven Winners		5	5	5	Great color; profuse bloom habit

Snapdragon

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Montego Bronze	Sygenta Seeds, Inc.		2.5	0	2.5	Most dead by July; a few fairly healthy remaining
Montego Fire Mix	Sygenta Seeds, Inc.		1	1	1	Most dead by July, 1 remains healthy through August

Summation: Not heat tolerant nor tolerant of wet, rainy season. Lots of rootrot.

Spheralcea - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Shell Pink	Proven Winners		4	5	4.5	Soft-pink blooms, great spreading habit, loads of flowers

Torenia - Vegetative

Series	Source	June	July	Aug-Sept	Average	Comments
Summer Wave Amethyst	Jackson & Perkins		5	5	5	Deep purple color and floriferous
Catalina Blue	Proven Winners		5	5	5	Great blue color, dense habit, floriferous
Catalina Pink	Proven Winners		5	5	5	Colorful and floriferous

Summation: Incredibly heat tolerant, showy annual.

Verbena - Vegetative

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Temari Bright Pink	Jackson & Perkins		5	5	5	Floriferous, vigorous foliage, dense and uniform
Tapien Lilac	Jackson & Perkins		5	5	5	Floriferous, vigorous foliage, dense and uniform

Vinca

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Stardust Orchid	PanAmerican Seed	4	4	4	4	Not uniform in size, very floriferous; healthy foliage
Pacifica Burgundy	PanAmerican Seed	4	4.5	5	4.5	Great color, healthy and floriferous
Sunshower Lilac	Sygenta Seeds, Inc.	4	4	5	4.3	Floriferous, great color, healthy foliage
Sunshower White w/Eye	Sygenta Seeds, Inc.	4	5	4.5	4.5	
Sundress White w/Eye	Sygenta Seeds, Inc.	4.5	5	4.5	4.6	
Sunglow Scarlet w/Eye	Sygenta Seeds, Inc.	4.5	5	5	4.8	Great red color
First Kiss Blush Improved	Benary	4	4	5	4.3	Great flower; foliage yellowing in late July
First Kiss Blueberry	Benary	4	5	5	4.6	Great blue color
Titan Polka Dot	Ball	4	5	5	4.6	Large blooms
Titan Burgundy	Ball	4	5	5	4.6	Large blooms, great color
Titan Lilac	Ball	4	5	5	4.6	Large blooms
Pacifica Halo Orchid	PanAmerican Seed	4	4.5	4.5	4.3	Not uniform in size; very floriferous

Summary: All tolerated a wet, rainy season with no root rot!

Zinnia elegans

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Magellan Pink	Goldsmith	5	2	0	3.5	Flowers great; foliage severely damaged by end of July
Magellan Ivory	Goldsmith	4.5	2	0	3.25	Flowers great; foliage severely damaged by end of July
Magellan Orange	Goldsmith	5	2	0	3.5	Flowers great; foliage severely damaged by end of July
Whirligig Mix	W. Atlee Burpee & Co.	4.5	2	0	3.25	Flowers great; foliage severely damaged by end of July
Sun Red	American Takii	4.5	2	0	3.25	Flowers great; foliage severely damaged by end of July
Benary Giant Carmen Rose	Benary	4.5	2	0	3.25	Flowers great; foliage severely damaged by end of July

Summary: All *Z. elegans* started the season out great but suffered from xanthomonis leaf spot and botrytis blight starting in July due to an excessive rainy season.

Zinnia x

Cultivar	Source	June	July	Aug-Sept	Average	Comments
Profusion Fire	Sakata		4.5	5	4.75	Compact, intense flower color; dense and uniform
Profusion Apricot	Sakata		4	5	4.5	Same as above, great, creamy apricot color

2004 Annual Variety Trials Jackson, TN

All America Selections Winners

GENUS	CULTIVAR	DONOR	YEAR	Rating	Comments
EUSTOMA	Forever Blue (Lisianthus)	PanAmerican Seed	2001		
EUSTOMA	Forever White (Lisianthus)	PanAmerican Seed	2003		
CARNATION	Can Can Scarlet		2003	3.5	
VINCA	Jaio Dark Red	Murakami Seed Co. Ltd.	2003		
AGASTACHE	Golden Jubilee		2003	5	
GAILLARDIA	Sundance Bicolor	Hem Zaden BV	2003	5	
GERANIUM	Black Velvet Rose		2002	2	
CELOSIA PLUMOSA	Fresh Look Yellow		2004	4	
CELOSIA PLUMOSA	Fresh Look Red		2004	5	
DIANTHUS	Melody Pink		2000	4	
DIANTHUS	Corona Cherry Magic	PanAmerican Seed	2003	4	
HOLLYHOCK	Queeny Purple	Hem Zaden BV	2004	3	
CLEOME	Sparkler Blush	Goldsmith	2002	5	
GAILLARDIA	Arizona Sun		2005	5	
RUDBECKIA HIRTA	Cherokee Sunset		2002	5	
RUDBECKIA HIRTA	Prairie Sun	Benary	2003	5	
GYPSOPHILA	Gypsy Deep Rose		2004	4	
VINCA	First Kiss Blueberry		2005	5	
NICOTIANA	Avalon Bright Pink		2001	4	
PETUNIA	Blue Wave		2003	5	
PETUNIA	Lavender Wave		2002	4	
PETUNIA	Tidal Wave Silver		2002	5	
PETUNIA	Merlin Blue Morn		2003	4	
ORNAMENTAL MILLET	Purple Majesty		2003	5	
ORNAMENTAL PEPPER	Chilly Chili		2002	5	
PORTULACA	Margarita Rosita		2001	5	
TITHONIA	Fiesta Del Sol		2000	5	
COSMOS	Cosmic Orange		2000	5	
ZINNIA	Profusion White		2001	5	
ZINNIA	Magellan Coral		2005	5	held off disease for long time

Fleuroselect Gold Medal Winners

GENUS	CULTIVAR	DONOR	Rating	Comments
DIANTHUS	Can Can Scarlet	Sakata	3	
CELOSIA	Fresh Look Red	Benary	5	
DIANTHUS	Noverna Purple	Kieft Seeds	3	
COREOPSIS	Heliot	S&G	3	no flowers
LAVATERA	Novella Rose	Floranova	2	1/2 of plants dead on Aug. 2
RUDBECKIA	Prairie Sun	Benary	5	
COREOPSIS	Rising Sun	PanAmerican Seed	4	few flowers
GAILLARDIA	Arizona Sun	Benary	5	
RUDBECKIA	Maya	Benary	3	
LAVATERA	Twins Hot Pink	Kieft Seeds	2	1/2 of plants dead on Aug. 2
LAVATERA	Twins Cool White	Kieft Seeds	2	1/2 of plants dead on Aug. 2
NICOTIANA	Bright Pink	Floranova	3	
PETUNIA	WonderWave Lavendar	Kirin Brewery Co., Ltd	5	
PETUNIA	WonderWave Blue	Kirin Brewery Co., Ltd	5	
VERBENA	Quartz Burgundy	PanAmerican Seed	5	
ZINNIA	Profusion White	Sakata	5	
ZINNIA	Profusion Cherry	Sakata	5	
PHLOX	Grammy Pink/White	Kieft Seeds	2	

AGERATUM - Seed

Cultivar	Source	July	Aug-Sept	Average	Comments
Bouquet White	Benary	4	3	3.5	
Blue Fields	S&G Flowers	4	3	3.5	
Bouquet White	Benary	4	3	3.5	

AGERATUM – VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Artist Rose	Proven Winners	3	5	2	
Alto Blue	Proven Winners	3	5	2	

BEGONIA - Seed

Cultivar	Source	July	Aug-Sept	Average	Comments
Braveheart Rose Bicolor	Benary	5	5	5	Excellent

Olympia Sprint Deep Pink	Benary	3	4	3.5	
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BIDENS – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Marietta Gold Spark	Jackson & Perkins		3	1	

BRACHYSOME – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Blue Zephyr	Proven Winners		3	1	

CALENDULA

Cultivar	Source	July	Aug-Sept	Average	Comments
Bon Bon Yellow	Bodger Seeds. Ltd.	2	0	1	Died

CALIBRACHOA-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Million Bells Trailing Pink Pastel	Jackson & Perkins		3	0	
Colorful Expressions Blue	Twyford	4	3	3.5	
Colorful Expressions Goldrush	Twyford	2	0	1	
Milky Way Light Blue	Twyford	4	3	3.5	

CELOSIA

Cultivar	Source	July	Aug-Sept	Average	Comments
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Castle Orange	American Takii	3	1	2	
Fresh Look Yellow	Benary	5	3	4	
Castle Yellow	American Takii	4	2	3	

CENTRADENIA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Purple Showers	Proven Winners	2	1	1.5	

COLEUS

Cultivar	Source	July	Aug-Sept	Average	Comments
Splash	Proven Winners	5	5	5	
The Flume	Proven Winners	5	5	5	
Old Lace	Proven Winners	5	5	5	
Black Prince	Proven Winners	5	5	5	
Dappled Apple	Proven Winners	5	5	5	
Juliet Quartermain	Proven Winners	5	5	5	
Ruffles	Proven Winners	5	5	5	

COREOPSIS

Cultivar	Source	July	Aug-Sept	Average	Comments
Heliot	S&G Flowers	3	2	2.5	Healthy but no flowers
Early Sunrise	Pan American Seed Co.	5	2	3.5	

COSMOS

Cultivar	Source	July	Aug-Sept	Average	Comments
Versailles Mix	Sakata Seed America	3	0	1.5	

DELPHINIUM

Cultivar	Source	July	Aug-Sept	Average	Comments
Super Stars	Benary	2	0	1	Dead

DIANTHUS

Cultivar	Source	July	Aug-Sept	Average	Comments
Purple Bouquet	Pan American Seed	5	5	5	
Telstar Purple	American Takii, Inc.	5	5	5	
Ideal Cherry Picotee	American Takii, Inc.	3	1	2	Most dead on Sept. 7
Telstar Picotee	American Takii, Inc.	5	5	5	

DIANTHUS – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Garden Spice Red	Twynford	3	3	3	
Garden Spice Marble	Twynford	3	5	4	
Garden Spice Coral	Twynford	3	3	3	
Garden Spice Fuschia	Twynford	3	5	4	
Garden Spice Pink	Twynford	3	3	3	
Garden Spice White	Twynford	3	3	3	

EUPHORBIA -VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Diamond Frost	Proven Winners	5	5	5	

GAILLARDIA

Cultivar	Source	July	Aug-Sept	Average	Comments
Arizona Sun	Benary	5	5	5	

GAURA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Karalee Petite Pink	Proven Winners	5	5	5	

GERANIUM - Seed

Cultivar	Source	July	Aug-Sept	Average	Comments
Bulls Eye Light Pink	Ball	2	2	2	Small, did not grow much, stunted
Bulls Eye Cherry	Ball	2	2	2	Small, did not grow much, stunted

GERANIUM – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept.	Average	Comments
Alba 2005	Fischer USA	3.5	2	2.75	
Avenida	Fischer USA	4	2.5	2.75	
Avenida Fire	Fischer USA	3.5	2	2.75	
Blues 2001	Fischer USA	3	2	2.5	
Bravo Dark Pink	Fischer USA	3	1	2	
Bravo Light Pink	Fischer USA	3.5	1.5	2.5	
Bravo Pastel	Fischer USA	3	1	2	
Calypso 2001	Fischer USA	3	1	2	
Casanova 2003	Fischer USA	4	2	3	
Charleston 2001	Fischer USA	3	1.5	2.25	
Charmant	Fischer USA	3.5	1.5	2.5	
Diablo	Fischer USA	4	2	3	
Dolce Vita 2004	Fischer USA	3	1	2	
Flamingo	Fischer USA	3.5	1.5	2.5	
Himalaya Red	Fischer USA	3	0.5	1.75	
Jazz	Fischer USA	3	1	2	
Kardino 2001	Fischer USA	3	1.5	2.25	
Magic	Fischer USA	3	1	2	
Montevideo	Fischer USA	3	0	1.5	
Noblesse	Fischer USA	3	1	2	
Omega 2000	Fischer USA	3	1	2	
Rocky Mountain Dark Red	Fischer USA	3.5	1.5	2.5	
Rocky Mountain Deep Rose	Fischer USA	3	2	2.5	
Rocky Mountain Lavender	Fischer USA	3.5	2	2.75	
Rocky Mountain Lavender Pink	Fischer USA	4	2.5	3.25	
Rocky Mountain Light Pink	Fischer USA	4	2.5	3.25	
Rocky Mountain Light Salmon	Fischer USA	3	2	2.5	
Rocky Mountain Magenta	Fischer USA	3.5	2.5	3	
Rocky Mountain Orange	Fischer USA	3	1.5	2.25	
Rocky Mountain Red 2003	Fischer USA	3	0.5	1.75	
Rocky Mountain Royal Red	Fischer USA	3	1	2	

Rocky Mountain Salmon 2004	Fischer USA	3	2	2.5
Rocky Mountain Salmon Rose	Fischer USA	4	3	3.5
Rocky Mountain Scarlet	Fischer USA	4	3	3.5
Rocky Mountain Violet	Fischer USA	3.5	2.5	3
Rocky Mountain White	Fischer USA	4	2.5	3.25
Samba	Fischer USA	3	2	2.5
Schoene Helena	Fischer USA	3	1	2
Swing 2001	Fischer USA	3	2	2.5
Tango Dark Red	Fischer USA	3	1	2
Tango Fire	Fischer USA	2.5	0.5	1.5
Tango Hot Pink	Fischer USA	2.5	0	1.25
Tango Lavender	Fischer USA	2.5	0.5	1.5
Tango Lavender Pink	Fischer USA	2.5	0	1.25
Tango Light Orchid	Fischer USA	2.5	0.5	1.5
Tango Magenta	Fischer USA	3	0.5	1.75
Tango Neon Purple	Fischer USA	3	1	2
Tango Orange	Fischer USA	2.5	0.5	1.5
Tango Pink	Fischer USA	2.5	0.5	1.5
Tango Violet	Fischer USA	3	1	2
Tango White	Fischer USA	2.5	0.5	1.5
Twist 2001	Fischer USA	3	1	2
Appleblossom	Fischer USA	4.5	3.5	4
Graffiti Fire	Fischer USA	2.5	1.5	2
Graffiti Pink	Fischer USA	3	0	1.5
Graffiti Salmon Rose	Fischer USA	3.5	2	2.75
Happy Orange	Fischer USA	3	1.5	2.25
Happy Violet	Fischer USA	3	1.5	2.25
Shalimar	Fischer USA	3	1.5	2.25
Tricolor	Fischer USA	4.5	3.5	4
Wilhelm Langguth	Fischer USA	4	3	3.5
Sonic Amethyst	Fischer USA	4	3.5	3.75
Sonic Burgundy	Fischer USA	4	3	3.5
Sonic Cattleya	Fischer USA	4	3	3.5
Sonic Cherry	Fischer USA	4	3	3.5
Sonic Dark Salmon	Fischer USA	4	3	3.5

Sonic Hot Pink	Fischer USA	4	3.5	3.75
Sonic Hot Rose on Gold	Fischer USA	3	3	3
Sonic Light Lavender	Fischer USA	4	3.5	3.75
Sonic Light Pink	Fischer USA	5	4	4.5
Sonic Lilac	Fischer USA	4	3.5	3.75
Sonic Magic Pink	Fischer USA	4	3	3.5
Sonic Orange	Fischer USA	4	3.5	3.75
Sonic Pastel 2003	Fischer USA	5	4	4.5
Sonic Pink	Fischer USA	4	4	4
Sonic Purple	Fischer USA	4	3.5	3.75
Sonic Red 2003	Fischer USA	4	3	3.5
Sonic Red on Gold	Fischer USA	4	3	3.5
Sonic Salmon	Fischer USA	4.5	3.5	4
Sonic Salmon Ice	Fischer USA	4	3.5	3.75
Sonic Scarlet	Fischer USA	4	3	3.5
Sonic Scarlet Blush	Fischer USA	4	3	3.5
Sonic Sweet Burgundy	Fischer USA	4	3.5	3.75
Sonic Sweet Cherry	Fischer USA	4	3	3.5
Sonic White 2003	Fischer USA	4	3	3.5
Sonic Xorro Red	Fischer USA	4	3	3.5
Super Sonic Burgundy	Fischer USA	5	5	5
Super Sonic Cherry Cream	Fischer USA	5	4.5	4.75
Super Sonic Coral Ice 2003	Fischer USA	5	4.5	4.75
Super Sonic Dark Salmon	Fischer USA	5	4.5	4.75
Super Sonic Flame	Fischer USA	5	4.5	4.75
Super Sonic Hot Pink 2004	Fischer USA	5	5	5
Super Sonic Lavender	Fischer USA	5	5	5
Super Sonic Light Pink	Fischer USA	5	5	5
Super Sonic Lilac	Fischer USA	5	5	5
Super Sonic Magenta	Fischer USA	5	5	5
Super Sonic Orchid	Fischer USA	5	5	5
Super Sonic Pastel Pink 2004	Fischer USA	5	5	5
Super Sonic Peach	Fischer USA	5	5	5
Super Sonic Pink	Fischer USA	5	5	5
Super Sonic Red 2004	Fischer USA	5	4	4.5
Super Sonic Salmon 2004	Fischer USA	5	4	4.5
Super Sonic Sweet Cherry	Fischer USA	5	4	4.5
Super Sonic Violet Ice	Fischer USA	5	5	5
Super Sonic White 2003	Fischer USA	5	5	5

Patriot	J. P. Bartlett Co., Inc.	3	1	2
Red Coat	J. P. Bartlett Co., Inc.	3	2	2.5
Mohawk	J. P. Bartlett Co., Inc.	3	1.5	2.25
Amy	J. P. Bartlett Co., Inc.	3	1	2
Beth	J. P. Bartlett Co., Inc.	3	0.5	1.75
Mayday	J. P. Bartlett Co., Inc.	3	1.5	2.25
Olivia	J. P. Bartlett Co., Inc.	3	1	2
Abigail	J. P. Bartlett Co., Inc.	3	2.5	2.75
Samaritan	J. P. Bartlett Co., Inc.	3	1	2
Puritan 2	J. P. Bartlett Co., Inc.	3	0.5	1.75
Quaker	J. P. Bartlett Co., Inc.	3	1	2
Anne	J. P. Bartlett Co., Inc.	3	1	2
Rebekah	J. P. Bartlett Co., Inc.	3	1	2
Light Lavender Pink	J. P. Bartlett Co., Inc.	3	1	2
Dark Purple	J. P. Bartlett Co., Inc.	3	1	2

HEUCHERA

Cultivar	Source	July	Aug-Sept	Average	Comments
Palace Purple Select	Jelitto	2	1	1.5	Did not grow much

HYPOESTES

Cultivar	Source	July	Aug-Sept	Average	Comments
Splash White Select	Pan American Seed	3	3	3	Not very vigorous
Splash Pink Select	Pan American Seed	3	3	3	Not very vigorous

IMPATIENS

Cultivar	Source	July	Aug-Sept	Average	Comments
Tempo Peach Butterfly	Bodger Seeds Ltd.	4	3	3.5	
Showstopper Peach Flair	Ball Horticultural	4	3	3.5	
Xtreme Rose	Goldsmith	5	5	5	
Xtreme Salmon	Goldsmith	5	5	5	
Xtreme Violet	Goldsmith	5	5	5	
Xtreme Red	Goldsmith	5	5	5	

LOBELIA-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Laguna Dark Blue	Proven Winners	5	4	4.5	

MARIGOLD

Cultivar	Source	July	Aug-Sept	Average	Comments
Spun Lemon	K. Sahin, Zaden BV	3	2	2.5	Flowers look sick or chewed on by insects
Antigua Orange	Goldsmith Seeds	5	4	4.5	Good disease resistance
Disco Orange	Bodger Seeds Ltd.	4	2	3	
Disco Yellow	Bodger Seeds Ltd.	5	3	4	
Moonstruck Yellow	Sygenta Seeds	5	3	4	
Moonstruck Orange	Sygenta Seeds	4	2	3	

MECARDONIA – VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Gold Flake	Proven Winners	4	2	3	

NEW GUINEA IMPATIENS-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Sonic Amethyst	Fischer USA	4	3.5	3.75	
Sonic Burgundy	Fischer USA	4	3	3.5	
Sonic Cattleya	Fischer USA	4	3	3.5	
Sonic Cherry	Fischer USA	4	3	3.5	
Sonic Dark Salmon	Fischer USA	4	3	3.5	
Sonic Hot Pink	Fischer USA	4	3.5	3.75	
Sonic Hot Rose on Gold	Fischer USA	3.5	3	3.25	
Sonic Light Lavender	Fischer USA	4	3.5	3.75	
Sonic Light Pink	Fischer USA	5	4	4.5	
Sonic Lilac	Fischer USA	4	3.5	3.75	
Sonic Magic Pink	Fischer USA	4	3	3.5	
Sonic Orange	Fischer USA	4	3.5	3.75	
Sonic Pastel 2003	Fischer USA	5	4	4.5	
Sonic Pink	Fischer USA	4	4	4	
Sonic Purple	Fischer USA	4	3.5	3.75	
Sonic Red 2003	Fischer USA	4	3	3.5	
Sonic Red on Gold	Fischer USA	4	3	3.5	

Sonic Salmon	Fischer USA	4.5	3.5	4	
Sonic Salmon Ice	Fischer USA	4	3.5	3.75	
Sonic Scarlet	Fischer USA	4	3	3.5	
Sonic Scarlet Blush	Fischer USA	4	3	3.5	
Sonic Sweet Burgundy	Fischer USA	4	3.5	3.75	
Sonic Sweet Cherry	Fischer USA	4	3	3.5	
Sonic White 2003	Fischer USA	4	3	3.5	
Sonic Xorro Red	Fischer USA	4	3	3.5	
Super Sonic Burgundy	Fischer USA	5	5	5	
Super Sonic Cherry Cream	Fischer USA	5	4.5	4.75	
Super Sonic Coral Ice 2003	Fischer USA	5	4.5	4.75	
Super Sonic Dark Salmon	Fischer USA	5	4.5	4.75	
Super Sonic Flame	Fischer USA	5	4.5	4.75	
Super Sonic Hot Pink 2004	Fischer USA	5	5	5	
Super Sonic Lavender	Fischer USA	5	5	5	
Super Sonic Light Pink	Fischer USA	5	5	5	
Super Sonic Lilac	Fischer USA	5	5	5	
Super Sonic Magenta	Fischer USA	5	5	5	
Super Sonic Orchid	Fischer USA	5	5	5	
Super Sonic Pastel Pink 2004	Fischer USA	5	5	5	
Super Sonic Peach	Fischer USA	5	5	5	
Super Sonic Pink	Fischer USA	5	5	5	
Super Sonic Red 2004	Fischer USA	5	4	4.5	
Super Sonic Salmon 2004	Fischer USA	5	4	4.5	
Super Sonic Sweet Cherry	Fischer USA	5	4	4.5	
Super Sonic Violet Ice	Fischer USA	5	5	5	
Super Sonic White 2003	Fischer USA	5	5	5	

OENOTHERA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Lemon Drop	Proven Winners	4	2	3	

ORNAMENTAL GRASS

Cultivar	Source	July	Aug-Sept	Average	Comments
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Elliotti Wind Dancer	Pan American Seed	5	5	5	
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ORNAMENTAL PEPPER

Cultivar	Source	July	Aug-Sept	Average	Cultivar
Explosive Embers	S&G Flowers	5	5	5	Excellent
Masquerade	Pan American Seed	4	4	4	Fruit somewhat hidden by foliage
Explosive Embers	Syngenta Seeds	5	5	5	

PENTAS

Cultivar	Source	July	Aug-Sept	Average	Comments
Graffiti White	Benary	3	4	3.5	Few flowers on Aug.2
Graffiti Violet	Benary	3	4	3.5	Few flowers on Aug. 2
Graffiti Pink	Benary	3	4	3.5	Few flowers on Aug. 2
Graffiti Bright Red	Benary	3	4	3.5	Few flowers on Aug. 2

PENSTEMON-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	
Lilliput Rose	Proven Winners	4	0	2	

PETUNIA – VEGETATIVE

Cultivar	Source	July	Aug-Sept	Average	Comments
Surfinia Victorian Cream	Jackson & Perkins	3	0	1.5	Died from root rot due to wet planting site and abundant rainfall
Surfinia Red	Jackson & Perkins	3	0	1.5	Died from root rot due to wet planting site and abundant rainfall
Surfinia Baby Purple Compact	Jackson & Perkins	4	2	3	Root disease
Surfinia Sugar Plum	Jackson & Perkins	4	2	3	Root disease
Surfinia Lavender Lace	Jackson & Perkins	4	2	3	Root disease
Surfinia Patio White	Jackson & Perkins	3	0	1.5	Died from root rot due to wet planting site and abundant rainfall
Surfinia Patio Misty Pink	Jackson & Perkins	3	0	1.5	Died from root rot due to wet planting site and abundant rainfall
Surfinia Baby Blue Compact	Jackson & Perkins	5	2	3.5	Root disease
Surfinia Baby Pink Compact	Jackson & Perkins	5	2	3.5	Root disease
Surfinia Baby Purple Improved	Jackson & Perkins	5	2	3.5	Root disease
Surfinia Baby White Compact	Jackson & Perkins	5	2	3.5	Root disease
Surfinia Baby Yellow Compact	Jackson & Perkins	5	2	3.5	Root disease
Surfinia Patio Blue	Jackson & Perkins	5	3	4	
Surfinia Patio Yellow	Jackson & Perkins	5	3	4	
Surfinia Rose Veined	Jackson & Perkins	5	2	3.5	Root disease

Double Wave Blue Vein	Twyford	5	3	4	
Double Wave Lavender	Twyford	5	4	4.5	
Double Wave Misty Lilac	Twyford	5	4	4.5	
Double Wave Purple	Twyford	5	3	4	
Double Wave Rose	Twyford	5	3	4	
Double Wave Pink	Twyford	5	3	4	
Double Wave White	Twyford	5	3	4	

PETUNIA - Seed

Cultivar	Source	July	Aug-Sept	Average	
Easy Wave Pink	Pan America Seed Co.	3	5	4	
Merlin Red Picotee	Sakata Seed America	3	1	2	
Celebrity Red Frost	Bodger Seeds Ltd.	3	1	2	
Easy Wave Red	Pan American Seed	3	2	2.5	
Double Cascade Blue	Pan American Seed	3	2	2.5	
Dreams Burgundy Picotee	Pan American Seed	4	3	3.5	
Dreams Sky Blue	Pan American Seed	3	3	3	
Avalanche Cherry	Bodger Seeds Ltd.	5	3	4	
Avalanche Lavender	Bodger Seeds Ltd.	5	4	4.5	
Avalanche Lilac	Bodger Seeds Ltd.	5	4	4.5	
Avalanche Pink	Bodger Seeds Ltd.	4	2	3	
Avalanche Red	Bodger Seeds Ltd.	5	4	4.5	
Avalanche Rose	Bodger Seeds Ltd.	5	4	4.5	
Avalanche Salmon Shades	Bodger Seeds Ltd.	5	3	4	
Avalanche Tropical	Bodger Seeds Ltd.	5	2	3.5	
Avalanche White	Bodger Seeds Ltd.	3	1	2	

PHLOX-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	
Intensia Lavender Glow	Proven Winners	5	2.5	3.75	Flowering tapered
Intensia Rose Lilac	Proven Winners	5	2.5	3.75	Flowering tapered
Intensia Neon Pink	Proven Winners	5	2.5	3.75	Flowering tapered

PORTULACA – VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Sunset Fire	Proven Winners	4	4	4	

PORTULACA

Cultivar	Source	July	Aug-Sept	Average	Comments
Margarita Peppermint	Pan American Seed				Rabbits ate

PLECTRANTHUS

Cultivar	Source	July	Aug-Sept	Average	Comments
Silver Shield	Pan American Seed	5	4	4.5	

RUDBECKIA

Cultivar	Source	July	Aug-Sept	Average	Comments
Toto Gold	Benary	4	4	4	

SCAEVOLA-VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Whirlwind Blue	Proven Winners	5	5	5	
Whirlwind White	Proven Winners	5	4	4.5	

SCOPARIA-VEGETATIVE CUTTINGS

Series	Source	July	Aug-Sept	Average	Comments
Mellongolly Blue	Proven Winners	3	1	2	Diminished flowering as season progressed

SNAPDRAGON

Series	Source	July	Aug-Sept	Average	Comments
Montego Bronze	Sygenta Seeds	2	1	1.5	Heat stress and root rot
Montego Fire Mix	Sygenta Seeds	2	1	1.5	Heat stress and root rot

SPHERALCEA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Shell Pink	Proven Winners	2	1	1.5	Poor flowering, not showy

SUPERTUNIA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Bordeaux	Proven Winners	5	5	5	
Silver	Proven Winners	5	5	5	

SURFINIA -VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Amethyst	Proven Winners	5	5	5	

TORENIA-VEGETATIVE CUTTING

Cultivar	Source	July	Aug-Sept	Average	Comments
Catalina Pink	Proven Winners	5	4	4.5	
Catalina Blue	Proven Winners	5	4	4.5	
Summer Wave Amethyst	Proven Winners	5	4	4.5	
Summer Wave Large Amethyst	Jackson & Perkins	5	4	4.5	
Catalina Purple	Proven Winners	5	4	4.5	

VERBENA – VEGETATIVE CUTTINGS

Cultivar	Source	July	Aug-Sept	Average	Comments
Tapien Lavender Pink	Jackson & Perkins	4	4	4	
Tapien Lilac	Jackson & Perkins	4	3	3.5	

VINCA

Cultivar	Source	July	Aug-Sept	Average	Comments
Stardust Orchid	Pan American Seed	4	3.5	3.75	
Pacifica Burgundy	Pan American Seed	5	4.5	4.75	
Sunglow Scarlet with Eye	Sygenta Seeds	3	3	3	
Sunshower Lilac	Sygenta Seeds	5	4	4.5	
Sunshower White with Eye	Sygenta Seeds	5	4	4.5	
Sundress White with Eye	Sygenta Seeds	5	4	4.5	
Titan Polka Dot	Ball	4	4	4	
Titan Burgundy	Ball	4	4	4	
Titan Lilac	Ball	4	4	4	

ZINNIA

Cultivar	Source	July	Aug-Sept	Average	Comments
Whirligig Mix	W. Altee Burpee Co.	4	2	3	
Sun Red	American Takii, Inc.	4	2	3	
Benary's Giant Carmen Rose	Benary	5	3	4	Lovely color, nice full flowers
Sun Cherry	American Takii, Inc.	3	1	2	
Magellan Pink	Goldsmith	4	0	2	Dead; taller than others in series
Magellan Ivory	Goldsmith	5	2	3.5	
Magellan Orange	Goldsmith	4	0	2	Dead