The University of Georgia

College of Agricultural & Environmental Sciences

1

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The University of Georgia Master Gardener

College of Agricultural & Environmental Sciences and Cooperative Extension Service

3

Part 1:Annuals
For Georgia Gardens

Paul A. Thomas and Bodie V. Pennisi
The University of Georgia
College of Agricultural and Environmental Sciences
Department of Horticulture

Learning Objectives

- Lifecycles of annuals, perennials & biennials
- Annuals - cultural requirements
- Annuals- bed layout and planning & planting techniques for
- Annuals- fertilization and maintenance & weed control

Learning Objectives

- Common annuals & benefits in container gardening
- Qualities of perennials
- Perennials- cultural requirements of, bed layout and planning considerations.
- Perennials basic planting techniques for & division
- Perennials- fertilization, maintenance, and weed control

Terms To Review

Annual: A plant which completes its life cycle in less than one year. Annuals, as a group, are unable to withstand both summer's heat and winter's cold.

Late Summer Annual: A plant which is vegetative early and mid-summer and finally blooms in late summer only.

Tender Perennial: An annual which happens to over-winter. This definition is very weather dependent. Some tender perennials are annuals 7 out of 10 years!

Perennial: A plant which completes its life cycle in two or more years and can withstand summer and winter conditions.

Biennial: A plant which usually completes its life cycle within two years.

Deer Tolerant: A plant usually not preferred by deer.

Terms To Review

Dead-heading: Removal of spent flowers before seed develops.

Random Seeding: Seeds broadcast in fall or spring without pattern.

Drought Tolerant: Plant recovers (grows/blooms) after prolonged drought.

Fertility: Heavy 3-4 applications : 1 lb of 10-10-10/100 sq. ft. / season.

Moderate 2 applications : 1 lb 10-10-10/100 sq. ft. / season, i.e. one at transplant and one mid-season.

Low 1 application : 1 lb 10-10-10/100 sq. ft. at transplant or in early spring before growth resumes.

Pinch at Transplant: Removal of top ¼ inch (including flowers) of the terminal growth to promote branching.

Inconspicuous Bloom: Blooms not seen, very small or unimportant.

Installing Annuals

The Perfect Plant?

FACT

80% of plant problems result from the inability of the plant to tolerate or adapt to the local environment!

Selecting The Proper Annuals

Know their final size.

Know their height.

Know their pH and fertility requirements.

Know their watering requirements.

Know their bloom period.

Evaluate The Old Planting

Remove Old Plant Materials

Remove Old Mulch Materials

Old mulch is less functional due to decomposition.

Removing the old material can reduce disease

Old mulch material can be used in a compost pile

Add Compost / Organic Matter And Amendments

Dig In Or Till Thoroughly At Least 12" Deep!

Plant Spacing

Distance Between Plants	Number of Plants Per 100 Sq. Ft.
6 Inch spacing	400
8 Inch spacing	227
10 Inch spacing	143
12 Inch spacing	70

Make Sure The Hole Is Larger Than The Root System.

Use Care When Handling Plants

Try not to handle roots

Plant at the same level as the root system of the individual plant

Do not leave root balls exposed as they may later wick water.

Do not crush or press into the ground!

Step Away From The Planting

Be sure to check overall uniformity and spacing consistency.

How Much Mulch To Apply?

3 to 5 inches is sufficient in gardens!

One bale of pine straw covers 50 – 80 sq. ft., depending on the bale size

Nine, 3 cu. ft. bags of pine bark mulch will cover 100 sq. ft. to a 3-inch depth

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Irrigate & Fertilize!

Fertilization

- Fertilizers only last so long!
- Plants growing in shade require more fertilizer than those in sun, due to competition from tree roots
- Plants growing in sandy soils require more frequent fertilization than those in clay soil due to leaching.
- Rainfall dramatically affects fertility levels in long-term gardens!
- Some plants like low fertility!

An average recommendation is 1 lb granular 10-10-10 per 100 sq ft.   Be sure to test soil first!

Cold Weather Starvation

Symptoms:

Leaf Purpling
Few Flowers
Chlorotic Centers

Viola Starvation

Warm Weather Starvation

Symptoms:

Chlorosis
Cupped leaves
Strap Leaves
Very Slow Growth
Very Poor Roots

Pansy starvation

Over - Fertilization

Symptoms:

Marginal Chlorosis
Entire Leaf Yellowing
Basal Leaf Yellowing
No New Blooms
Necrosis / Death
Root Damage

Overdose of a common fertilizer

Leach with water!

The Finished Product!

Macon Master Gardeners Visiting UGA

Annuals For Summer Sun

Annual Open House at the UGA Trial Gardens

Cockscomb

Characteristics
Drought tolerant
15 – 30 inches tall

Location:
Full sun bedding

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
May – November

Culture Concerns:
Deadhead first
flowers and/or
pinch at transplant
for bushy growth

Celosia cristata

Vinca

Characteristics:
Nectar source
Drought tolerant
Very floriferous
18-24 inches tall

Location:
Full sun bedding

Plant Spacing:
8 to 10-inch centers

Care and Feeding:
Low fertility,
Nitrate fertilizer
Deer tolerant

Bloom Period:
June – August

Culture Concerns:
Keep foliage dry
Avoid overhead
watering

Catharanthus roseus

Moss Verbena

Characteristics:
Nectar source
Drought tolerant
Groundcover
4 – 6 inches tall

Location:
Full sun-bedding
Hanging baskets

Plant Spacing:
8 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
May - December

Culture Concerns:
Spider mites
Well-drained

Verbena tenuisecta 'Imagination'

Bedding Begonia

Characteristics:
Groundcover
Floriferous
12 to18 inches tall

Location:
Full sun to
partial shade

Plant Spacing:
8 to 12- inch
centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
May – August

Culture Concerns:
Fades in drought
Botrytis

Begonia spp.

Spider Flower

Characteristics:
Nectar source
Drought tolerant
36 to 54 inches tall

Location:
Full sun bedding

Plant Spacing:
4-inch centers or
random seeding

Care and Feeding:
Moderate fertility
Deer tolerant
Well drained

Bloom Period:
June – September

Culture Concerns:
Reseeds

Cleome hassleriana

Bush Violet

Characteristics:
Mounding
12 –25 inches tall

Location:
Full sun bedding
Patio containers

Plant Spacing:
10- inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – September

Culture Concerns:
Mites

Browalia americana

Spike Celosia

Characteristics:
Nectar source
Drought tolerant
30 –54 inches tall

Location:
Full sun bedding

Plant Spacing:
4 inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
May – August

Culture Concerns:
Deadhead or pinch
at transplant for
bushy plant

Celosia spicata

Fan Flower

Characteristics:
Groundcover
10-12 inches tall

Location:
Full sun bedding

Plant Spacing:
6 – 8 inch centers

Care and Feeding:
Heavy fertility
No drought
Deer tolerant

Bloom Period:
May – September

Culture Concerns:
Must be kept moist
Early season pinch

Scaveola aemula 'New Blue Wonder'

Treasure Flower

Characteristics:
Drought tolerant
12-18 inches tall

Location:
Full sun bedding

Plant Spacing:
5 -7 inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – September

Culture Concerns:
Well drained soils

Gazania splendens

Strawflowers

Characteristics:
Late summer color
as dried flowers
24-28 inches tall

Location:
Full sun bedding

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility
Deer tolerant
Well drained soils

Bloom Period:
June – August

Culture Concerns:
Cut flowers when
partially open.

Helichrysum bracteatum

Bloodflower

Characteristics:
Nectar source
Drought tolerant
48-60 inches tall

Location:
Full sun bedding

Plant Spacing:
4 to 6-inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June – October

Culture Concerns:
Aphids
Well drained

Asclepias currisavica

Annual Verbena

Characteristics:
Floriferous
12-15 inches tall

Location:
Full sun (Morning)

Plant Spacing:
4-inch centers

Care and Feeding:
Moderate fertility,
Heat tolerant

Bloom Period:
June – August

Culture Concerns:
Mites
Well drained soils
Mildew

Verbena spp.

Marigold

Characteristics:
Floriferous
12 to 32 inches tall

Location:
Full sun bedding

Plant Spacing:
4-inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
May - October

Culture Concerns:
Mites / Heat

Tagetes hybrida

14

Running Lantana

Characteristics:
Nectar source
Drought tolerant
Spreading groundcover
12 – 15 inches tall

Location:
Full sun bedding

Plant Spacing:
24 - inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
May – October

Culture Concerns:
Well drained soils
White flies

Lantana montevidensis

Mounding Lantana

Characteristics
Nectar source
Drought tolerant
18 – 60 inches tall

Location:
Full sun bedding

Plant Spacing:
1 to 2 foot centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June – October

Culture Concerns:
Mildew / Whiteflies
Well drained soils

Lantana camara

Mexican Heather

Characteristics
Nectar source
15 – 18 inches tall

Location:
Full sun or partial shade

Plant Spacing:
12-Inch centers

Care and Feeding:
Moderate fertility
Heat tolerant

Bloom Period:
June – October

Culture Concerns:
Constant fertility

Cuphea hyssopifolia

Blackeyed Susans

Characteristics:
Nectar source
Drought tolerant
18 – 28 inches tall

Location:
Full sun bedding

Plant Spacing:
6 to 8 inch centers

Care and Feeding:
Moderate fertility,
Heat tolerant

Bloom Period:
June – August

Culture Concerns:
Deadheading
Mildew

Rudbeckia hirta

Throatwort

Characteristics:
Nectar source
24 – 48 inches tall

Location:
Full sun bedding

Plant Spacing:
6 to 8-inch centers

Care and Feeding:
Moderate fertility,
No drought!

Bloom Period:
June – September

Culture Concerns:
Mildew
Well drained soils
Must not dry out

Trachelium caeruleum

Mexican Sunflower

Characteristics:
Nectar source
Drought tolerant
Late blooming
36 -78 inches tall

Location:
Full sun bedding

Plant Spacing:
2-foot centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July - November

Culture Concerns:
Can get huge!
Mildew

Tithonia rotundifolia 'The Torch'

Bedding Petunias

Characteristics:
Floriferous
12 – 24 inches tall
Spring, fall color

Location:
Full sun bedding

Plant Spacing:
6 – 8 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
April - December

Culture Concerns:
Mid-summer trimming is required

Petunia hybrida

Cascading Petunias

Characteristics:
Hanging baskets
6 - 10 inches tall
3 - 4 foot cascades

Location:
Full sun bedding

Plant Spacing:
6 to 9-inch centers

Care and Feeding:
Heavy fertility,
No drought

Bloom Period:
May – November

Culture Concerns:
Summer trimming

Petunia hybrida 'Cascadia'

SuperPetunia

Characteristics:
Groundcover
8-12 inches tall

Location:
Full sun

Plant Spacing:
24-inch centers

Care and Feeding:
Heavy fertility,
No drought

Bloom Period:
June – October

Culture Concerns:
Rampant spreader

Petunia 'Purple Wave'

Purslane Portulaca

Characteristics:
Groundcover
6 - 12 inches tall

Location:
Full sun bedding

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – August

Culture Concerns:
Well drained
Flowers close by
4:00 pm

Portulaca grandiflora

Ornamental Sweet Potato

Characteristics:
Groundcover
12 – 15 inches tall

Location:
Full sun

Plant Spacing:
2 foot centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Inconspicuous

Culture Concerns:
Chewing insects
Rampant growth

Ipomea batatus **'Marguerite' & 'Blackie'**

Globe Flower

Characteristics:
Drought tolerant
15 - 48 inches tall
Good dried flower

Location:
Full sun bedding

Plant Spacing:
8-inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
June – August

Culture Concerns:
Mildew
Well drained
Pinch at transplant

Gompherena globosa

Pentas

Characteristics
Nectar source
15-28 inches tall

Location:
Full sun bedding

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Mildew
White Flies

Pentas lanceolata

Geraniums

Characteristics:
Container plant
18 – 24 inches tall

Location:
Full sun bedding

Plant Spacing:
8 to 10-inch centers

Care and Feeding:
Heavy fertility

Bloom Period:
April – November

Culture Concerns:
Mealy bugs
Mildew
Deadheading
Declines in heat

Pelargonium hortorum

Four O' Clocks

Characteristics:
Nectar source
Drought tolerant
18 – 54 inches tall

Location:
Full sun bedding

Plant Spacing
24-inch centers

Care and Feeding:
Moderate fertility
Pinching early
Early staking

Bloom Period:
June – September

Culture Concerns:
Shrub-like
Reseeds

Mirabilis jalapa

Ornamental Tobacco

Characteristics:
Nectar source

Location:
Full sun bedding

Plant Spacing:
6-inch centers

Care and Feeding:
Heavy fertility

Bloom Period:
June – September

Culture Concerns:
Well drained soils
Declines in drought

Nicotiana alata

Creeping Zinnia

Characteristics:
Nectar source
Drought tolerant
12 – 20 inches tall
Cascading

Location:
Full sun bedding

Plant Spacing:
8 to 10-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – October

Culture Concerns:
Mildew
Well drained

Zinnia angustifolia

Sunflower

Characteristics:
Nectar source
Specimen / Border
Drought tolerant
4- 8 feet tall

Location:
Full sun bedding

Plant Spacing:
24-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – August

Culture Concerns:
Huge! Staking
Mildew

Helianthus annuus

Scarlet Sage

Characteristics:
Nectar source
18 – 24 inches tall

Location:
Full sun bedding

Plant Spacing:
6 to 8 inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Defoliates in
drought

Salvia splendens

Bedding Lobelia

Characteristics:
Hanging baskets
Early spring color
Mounding habit
15 - 24 inches tall

Location:
Full / part sun

Plant Spacing:
6-inch centers

Care and Feeding:
Moderate fertility
Cool, moist soils
No drought

Bloom Period:
March-May

Culture Concerns:
Well drained

Lobelia erinus

California Poppy

Characteristics:
Early spring color
12 - 20 inches tall

Location:
Full sun bedding

Plant Spacing:
4- inch centers
Random seeding

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
March - May

Culture Concerns:
Well drained

Eschscholzia californica

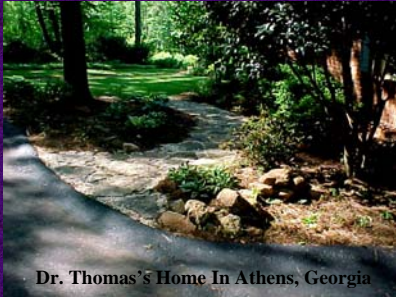## Annuals For Shady Location

Dr. Thomas's Home In Athens, Georgia

Imagine What Shade-Tolerant Annuals Could Do For This Site!

Impatiens

Characteristics:
Nectar source
Floriferous
18 – 24 inches tall

Location:
Full shade
Partial shade

Plant Spacing:
8 to 12-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
High organic soils best

Impatiens walleriana

Double Impatiens

Characteristics:
Nectar source
High color density
18 - 24 inches tall
Hanging baskets

Location:
Full shade
Partial shade

Plant Spacing:
8 to 12-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
High organic soils best

Impatiens walleriana

22

New Guinea Impatiens

Characteristics:
Nectar source
14-28 inches tall

Location:
Partial shade

Plant Spacing:
12- inch centers

Care and Feeding:
Heavy fertility
No drought
Organic soils

Bloom Period:
June – August

Culture Concerns:
Botrytis
Absolutely must be
kept moist.

Impatiens hawkeri

Floss Flower

Characteristics:
Nectar source
12-15 inches tall,
12 inches wide.

Location:
Full - part shade

Plant Spacing:
4 to 8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Bleaches in sun
Botrytis

Ageratum houstonianum

Caladium

Characteristics:
Colorful foliage
28 – 36 inches tall

Location:
Full / part shade

Plant Spacing:
6 to 8-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
Inconspicuous

Culture Concerns:
Well drained
Dig tubers in fall

Caladium 'Miss Muffet'

23

Elephant Ears

Characteristics:
Full/part shade
Tolerates wet soils
36 - 78 inches tall

Location:
Full/part shade

Plant Spacing:
24-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Inconspicuous

Culture Concerns:
Dig tubers in fall

Alocasia micholitziana **'Maxkowskii'**

Coleus

Characteristics:
Tolerates wet soils
24 – 30 inches tall

Location:
Shade/part shade

Plant Spacing:
8 to 10-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Must deadhead

Culture Concerns:
Pinch at transplant
Mildew

Coleus **'Wizard Mix'**

Polkadot Plant

Characteristics:
Colorful foliage
Rapid growth
12-18 inches tall

Location:
Full shade/sun

Plant Spacing:
8 - inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Inconspicuous

Culture Concerns:
Mealy bugs
Summer trimming
Deadheading

Hypoestes phyllostachya

24

Torenia

Characteristics:
Nectar source
12 - 24 inches tall

Location:
Partial shade

Plant Spacing:
6-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Fades in bright sun

Torenia fournieri

Persian Shield

Characteristics
Mounding
24 - 36 inches tall

Location:
Full / part shade

Plant Spacing:
12 - inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Inconspicuous

Culture Concerns:
Mealy bugs
Fades in bright sun

Strobilanthes dyerianus

Native Impatiens

Characteristics:
Nectar source
Mounding habit
36 – 56 inches tall

Location:
Full/part shade

Plant Spacing:
8-inch centers
Random seeding

Care and Feeding:
Low fertility
No drought

Bloom Period:
June – July

Culture Concerns:
Reseeds
Needs moist soil

Impatiens capensis

Annuals for Fall & Early Spring

Dr. Thomas's Deck In Winter Without Annuals

Alyssum

Characteristics:
Nectar source
Groundcover
6 - 10 inches tall

Location:
Full sun/part shade

Plant Spacing:
4-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Apr-June, Sept/Oct

Culture Concerns:
Declines in heat if dry

Lobularia maritima

Pansy

Characteristics:
Nectar source
Frost resistant
7 - 10 inches tall

Location:
Full sun

Plant Spacing:
4 to 8-inch centers

Care and Feeding:
Moderate fertility
No drought
Requires deer
protection

Bloom Period:
August-May

Culture Concerns:
Caterpillars

Viola wittrockiana

26

Violas

Characteristics:
Nectar source
Frost resistant
7 – 10 inches tall

Location:
Full sun

Plant Spacing:
4 to 8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
August-May

Culture Concerns:
Caterpillars

Viola wittrockiana

Flowering Cabbage And Kale

Characteristics:
Foliage color
15 - 20 inches tall

Location:
Full sun bedding

Plant Spacing:
12 to 15-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
August-November

Culture Concerns:
Summer planting

Brassica oleracea

Snapdragons

Characteristics:
Tall borders
15 – 48 inches tall

Location:
Full sun

Plant Spacing:
4 to 8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
Aug-Nov, Apr-May

Culture Concerns:
Staking/Mildew

Antirrhinum majus

27

Garden Mums

Characteristics:
Temporary color
15 - 28 inches tall

Location:
Full sun

Plant Spacing:
12 to 16-inch
centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
August - October

Culture Concerns:
Plant in tight bud

Dendranthemum morifolium

Annual & Biennial Dianthus

Characteristics
Nectar source
12 to 15 inches high

Location:
Full sun

Plant Spacing:
6-inch centers

Care and Feeding:
Heavy fertility
No drought
Well drained

Bloom Period:
June – August

Culture Concerns:
Trim to shape in
spring of 2nd year

Dianthus batrbatus 'Telstar Series

Annual Vines

Passion Vine

Characteristics
Trellis/groundcover
Good nectar source

Location:
Full sun

Plant Spacing:
12-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Sterile/not invasive
Caterpilliars ?

Passiflora **'Byron's Beauty'**

Cardinal Climber

Characteristics
Nectar source
Drought tolerant
Trellis vine

Location:
Full sun

Plant Spacing:
4-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – August

Culture Concerns:
Mildew & mites
Reseeding

Ipomoea sloteri

Cypress Vine

Characteristics:
Nectar source
Trellis vine

Location:
Full sun

Plant Size:
20 to 30 foot vines by
end of summer.

Care and Feeding:
Moderate fertility

Bloom Period:
June – November

Culture Concerns:
Mildew
Reseeds

Ipomoea quamoclit

29

Morning Glory

Characteristics:
Trellis vine
20-30 feet by end
of summer season

Location:
Full sun

Plant Spacing:
2-4 inches

Care and Feeding:
Moderate fertility

Bloom Period:
July – September

Culture Concerns:
Reseeds

Ipomoea tricolor

Mandevilla Vine

Characteristics:
Long lasting flowers
Flowers may be sparse

Location:
Full sun

Plant Size:
4 – 6 foot vines

Care and Feeding:
Moderate fertility,
No drought

Bloom Period:
June – August

Culture Concerns:
Mealy bugs

Mandevilla sanderi

Allamanda Vine

Characteristics:
Very large bloom
Trellis vine
15 feet per season

Location:
Full sun

Plant Spacing:
12-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
May – October

Culture Concerns:
Mealy bugs

Allamanda cathartica

Purple Hyacinth Vine

Characteristics:
Trellis vine
Good nectar source
10 foot vine per season

Location:
Full sun

Plant Spacing:
4-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – September

Culture Concerns:
Reseeds

Dolichos lablab

SweetPea

Characteristics:
Mounding or
trellis vine
3 foot vines

Location:
Full sun

Plant Spacing:
2-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
May – June

Lathyrus odoratus

Culture Concerns:
Dies out in mid-summer
heat if not kept moist

Nasturtium

Characteristics:
Groundcover
12 feet vines by summer

Location:
Full sun

Plant Spacing:
4-inch centers
Seeds require cold snap

Care and Feeding:
Moderate fertility,
No drought

Bloom Period:
June – September

Culture Concerns:
Frequent irrigation

Tropaoleum majus

Snail Vine

Characteristics:
  Trellis vine
  10-20 feet per season

Location:
  Full sun

Plant Spacing:
  2-inch centers

Care and Feeding:
  Moderate fertility
  No drought

Bloom Period:
  July – October

Culture Concerns:
  Slow growing at first

Vigna caracalla

Annuals Best For Cut Flowers

Verbascum

Characteristics:
  Back of bed plant
  Height to 36"

Location:
  Full sun

Plant Spacing:
  10-inch centers

Care and Feeding:
  Moderate fertility
  No drought

Bloom Period:
  June – August

Culture Concerns:
  Mites
  Deadheading essential

Verbascum 'Southern Charm'

Cosmos

Characteristics:
Mass planting best
Cut flower
Drought tolerant
18-48 inches tall

Location:
Full sun

Plant Spacing:
Spring seeding
or 4-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June – October

Culture Concerns:
Great for poor soils

Cosmos bipinnatus

China Pinks

Characteristics:
Nectar source
Fragrant flowers
15-18 inches tall

Location:
Full sun

Plant Spacing:
4-inch centers or
random seeding

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Fall seeding

Dianthus chinensis

Peruvian Lily

Characteristics:
Cut flower
12-24 inches tall

Location:
Full sun/part shade

Plant Spacing:
12-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
March planting
Tender perennial in
south Georgia
Fades mid-summer

Alstroemeria aurea

Summer Snapdragon

Characteristics:
Container plant
Border plant
24 - 28 inches tall

Location:
Full sun

Plant Spacing:
5 to 7-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June - October

Culture Concerns:
Pinch at transplant

Angelonia angustifolia 'Angel Mist'

Bachelor's Buttons

Characteristics:
Spring color
Cut flower

Location:
Full sun

Plant Spacing:
4-inch centers
Random seeding

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
April – June

Culture Concerns:
Reseeds

Centaurea cyanus

Delphiniums

Characteristics:
Border plant
Cut flower
24 - 56 inches tall

Location:
Full sun

Plant Spacing:
4 to 6-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Mites
Aphids

Dephinium spp.

34

Zinnia

Characteristics:
Nectar source
Cut flower
16 - 24 inches tall

Location:
Full sun

Plant Spacing:
4-inch centers
Random seeding

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – September

Culture Concerns:
Mildew

Zinnia 'DreamLand' Series

Unusual Annuals For Sunny Locations

The Trial Gardens At The Coastal Gardens, Savannah

Pigeon Berry

Characteristics:
Nectar source
Shrub-like
30 - 50 inches tall

Location:
Full sun

Plant Spacing:
24-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Tender perennial
in South Georgia

Duranta erecta

Sun-Loving Coleus

Characteristics:
Mounding
36-54 inches tall

Location:
Full sun!

Plant Spacing:
24 to 26-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
Must deadhead

Culture Concerns:
Mealy bugs

Coleus 'Solar Flare'

Ugandan Glorybower

Characteristics:
Shrub-like
45 - 60 inches tall

Location:
Full sun

Plant Spacing:
24 to 26-inch centers

Care and Feeding:
Heavy fertility,
No drought
Even moisture

Bloom Period:
June – October

Culture Concerns:
Needs early shaping for best results.

Clerodendrum myricoides

Tall Cigar Plant

Characteristics:
Nectar source
Shrub-like
36 - 48 inches tall

Location:
Full sun

Plant Spacing:
24 to 26-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June – November

Culture Concerns:
Aphids

Cuphea micropetalum

Angel's Trumpet

Characteristics:
Tree-like
4 - 5 feet tall

Location:
Full sun

Plant Spacing
30 to 36-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June - September

Culture Concerns:
All parts poisonous
Brought indoors

Brugmansia suaveolens

Mealy Cup Sage

Characteristics:
Nectar source
Mounding
24 - 28 inches tall

Location:
Full sun

Plant Spacing:
5 - 6 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Well drained soils
Aphids

Salvia farinacea

Globe Allium

Characteristics:
Nectar source
Back border
Specimen plant
36 - 54 inches tall

Location:
Full sun

Plant Spacing:
10 to 12 - inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Well drained

Allium giganteum

Joseph's Coat

Characteristics
Tall back border
Specimen plant
Drought tolerant
36 - 54 inches tall

Location:
Full sun

Plant Spacing:
14- 18 inch centers

Care and Feeding:
Moderate fertility
Staking

Bloom Period:
June – August

Culture Concerns:
Huge!
Mildew

Amaranthus tricolor

Hibiscus

Characteristics:
Nectar source
Shrub-like
30 - 48 inches tall

Location:
Full sun

Plant Spacing:
26 to 30-inch
centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Brought indoors

Hibiscus rosa-sinensis

Ornamental Peppers

Characteristics:
Colored fruit
Container plant

Location:
Full sun bedding

Plant Spacing:
12 to 15-inches tall

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Very hot peppers!

Capsicum annuum

Texas Firebush

Characteristics:
Nectar source
Shrub-like
14 - 24 inches tall

Location:
Full sun

Plant Spacing:
12-inch centers

Care and Feeding:
Moderate fertility
Deer protection

Bloom Period:
June – October

Culture Concerns:
Well drained

Hamelia patens

Leadwort

Characteristics:
Nectar source
Shrub-like
24 - 36 inches tall

Location:
Full sun

Plant Spacing:
24 to 26-inch centers

Care and Feeding:
Heavy fertility
No drought
Organic soil

Bloom Period:
June – October

Culture Concerns:
Tender perennial in South Georgia

Plumbago auriculata

Cat Whiskers

Characteristics:
Unusual flowers
Height to 28 inches

Location:
Full sun/part shade

Plant Spacing:
6 to 8-inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Declines in heat

Orthosiphon stamineus

Cannas

Characteristics
Tall – vigorous
48 - 84 inches tall

Location:
Full sun

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – September

Culture Concerns:
Pull flower canes
Leaf rollers
Lift tubers in fall

Canna x *hybrida*

Yellow Bleeding Hearts

Characteristics:
Unusual flowers
Trellis vine
6 -7 feet per season

Location:
Full sun

Plant Spacing:
6-inch centers

Care and Feeding:
Moderate. fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Never expose to
drought!

Dicentra scandens

Medallion Flower

Characteristics:
Mounding
Drought tolerant
36 - 48 inches tall

Location:
Full sun

Plant Spacing:
4 to 6-inch centers
or random seedling

Care and Feeding:
Low fertility

Bloom Period:
June – October

Culture Concerns:
Reseeding!

Melampodium paludosum

Black-Eyed Susan Vine

Characteristics:
Trellis vine
7 - 8 feet per season

Location:
Full sun

Plant Spacing:
4-inch centers or
2 -nch seeding

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – October

Culture Concerns:
Reseeds

Thunbergia alata

Princess Flower

Characteristics:
Specimen plant
36 - 48 inches tall

Location:
Full sun

Plant Spacing:
24-inch centers

Care and Feeding:
Moderate fertility,
No drought

Bloom Period:
August -September

Culture Concerns:
Slow starter

Tibouchina urvilleana

Purple Calico Plant

Characteristics:
Foliage effect
Mounding
36 - 48 inches tall

Location:
Full sun

Plant Spacing:
36-inch centers

Care and Feeding:
Heavy fertility,
No drought
Keep moist

Bloom Period:
Inconspicuous

Culture Concerns:
Well drained soils

Alternanthera dentata 'Wave Hill'

Purple Heart

Characteristics:
Groundcover
Drought tolerant
12 - 15 inches tall

Location:
Full sun/part shade

Plant Spacing:
6 to 8-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
Inconspicuous

Culture Concerns:
Tender perennial in middle and south Georgia

Setcreasea pallida

Lion's Ear

Characteristics:
Nectar source
Drought tolerant
Tall border plant
28 - 40 inches tall

Location:
Full sun

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
August-September

Culture Concerns:
Well drained

Leonotis leonurus

Twinspur

Characteristics:
Nectar source
Groundcover
12 - 18 inches tall

Location:
Full sun

Plant Spacing:
8-inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June – August

Culture Concerns:
Growth slow in heat

Diascia rigescens

Happy Gardening !

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