

Part 2: Perennials For Georgia Gardens



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



Terms To Review

- Perennial:** A plant which completes its life cycle in two or more years and can withstand both summer and winter conditions.
- Tender Perennial:** Tender perennials are annuals which happens to over-winter. This definition is very weather dependent. Some tender perennials are annuals 7 out of 10 years!
- Annual:** A plant which completes its life cycle in less than one year. Annuals are unable to withstand both summer's heat and winter's cold.

Terms To Review

- Pinch at Transplant:** Removal of top 1/4 inch (+flowers) of the terminal growth. This promotes early branching and yields a very nice looking perennial.
- Inconspicuous Bloom:** Blooms not seen, are very small or are unimportant. Usually these plants are selected for their foliage or form.
- Drought-Tolerant:** Plant recovers and continues to grow and blooms after prolonged drought.

Terms To Review

Biennial: A plant which completes its life cycle in two years, etc. Usually requires one winter season.

Deer Resistant: A plant not preferred by deer. However, in drought, there are no guarantees. Desperate deer will eat almost any plant.

Bloom Period: An average time for the appearance of blooms. This is strongly affected by weather, light levels and soil conditions.

Terms To Review

Dead-heading: Removal of spent flowers before seed develops. Usually allows additional flowers to form and bloom.

Random Seeding: Seeds randomly broadcast on an open, prepared seed bed in fall or spring.

Light Requirement: Sun, partial shade, shade: Light requirements are fairly stringent for perennials. For best performance and flowering, choose the brightest light acceptable for that species.

Fertility Terms To Review

Low One application of 1 lb of 10-10-10/100 sq. ft. at transplant or before spring regrowth. Best for early spring flowering perennials or aggressive species.

Moderate Two applications of 1 lb of 10-10-10/100 sq. ft. per season. Once at transplant or in early spring, and once mid-season followed by significant irrigation.

Heavy Three /four applications of 1 lb of 10-10-10/100 sq. ft. per season. At transplant or early spring, then 3 - 4 week intervals. Best for late blooming perennials, and vines that grow all summer, or groundcover-like perennials that you intend to have spread quickly. Water in thoroughly!

Pre-Planning An Installation Is Essential For Perennials



Perennials Are Complex

- Know the size of the plant!
- Know the plant's pH preference
- Know the pests and diseases
- Know the life-span of the plant
- Know the bloom period

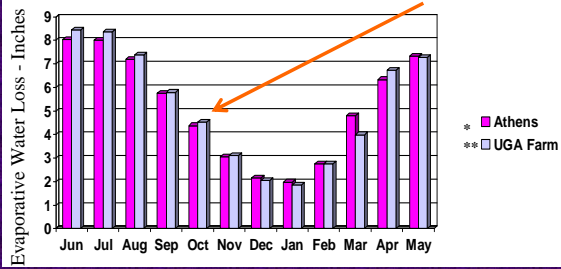


Fall Is For Planting!

Evaporation Rates For Athens

*Average from 1953 to 1992
 **Average from 1971 to 1992

Start Here!



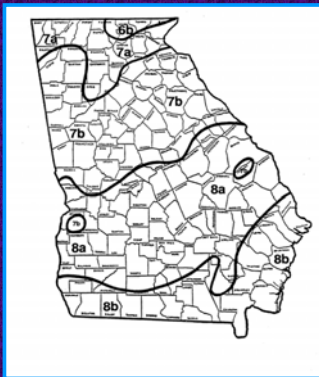
Heat Zone Map For Georgia



Days above 90° F.

Zone	Ave. No. Days
5	30 - 45
6	45 - 60
7	69 - 90
8	90 - 120
9	120 - 150
10	150 - 175

Cold Hardiness Zones



Range of Average Annual Minimum Temperatures for Each Zone

Zone	Range in Degrees F
6b	0 to -5
7a	5 to 0
7b	10 to 5
8a	15 to 10
8b	20 to 15

Soil Testing

Most perennials prefer a soil pH between 5.2 and 6.7 and a well drained soil. Organic matter is often added to accomplish both objectives.



Select Plants Carefully When You Buy

Overall Condition

Check Roots/
Buds/Flowers

Scout For
Insects/Disease





**Just as with annuals, bed
preparation is essential !**

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

Weed Control - Landscape



Pre & Post Emergent Herbicides

Pre-Emergent:

Betasan
Pendulum
Pennant
Surflan
XL

Mulches & Covers:

Pine Straw
Pine Bark
Peanut Hulls
Compost

Post-Emergent:

Envoy
Vantage

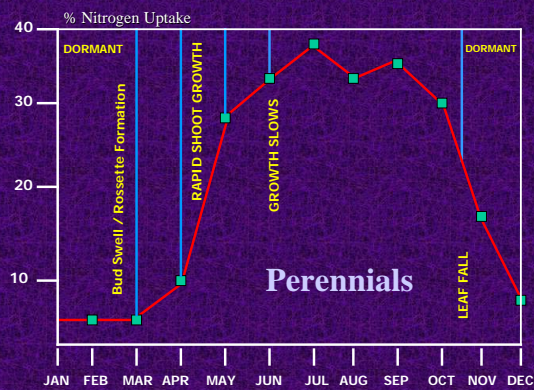
Non-Selective Herbicides:

Round-Up Pro
Reward
Scythe

Fertilization

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

Nitrogen Uptake Throughout the Year



Types of Fertilizer

Granular - General-purpose
(10-10-10, 16-4-8)

Slow-release

Organic

Liquid

**Get the most nutrients
you can for your dollar!**

GUARANTEED ANALYSIS	
Total Nitrogen (N)	12.09%
5.5% Slow Release Uniform Nitrogen*	
5.2% Ammoniacal Nitrogen	
1.3% Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	4.00%
Soluble Potash (K ₂ O)	8.00%
Magnesium (Mg)	0.50%
Sulfur (S)	2.00%
Iron (Fe)	1.00%

Nutrient Sources: Urea, Methylene Ureas, Ammonium Phosphate, Ammonium Sulfate, Ammoniated Superphosphate, Murate of Potash, Sulfates, Dolomite, Ferrous Sulfate.
Potential Acidity Equivalent 100 lbs. Calcium Carbonate per Ton.
*3.6% Water Insoluble Nitrogen (WIN) and 1.4% Springly Soluble Nitrogen.

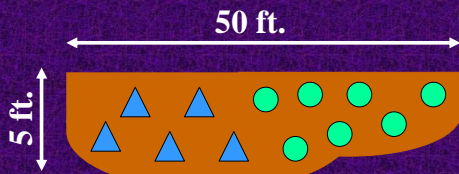
16-4-8

10/16 = 0.6 lbs. per 100 sq. ft.

12-4-8

10/12 = 0.8 lbs. per 100 sq. ft.

2 cups = 1 lb.



5 ft. x 50 ft. = 250 sq. ft.

16 - 4 - 8 = 0.6 lbs./100 sq. ft.

250 sq ft x 0.6 / 100 sq ft. = Amt Apply

Amt to Apply = 1.5 lbs. (3 cups)

Nutrient Deficiencies

Purpling of lower leaves - phosphorus deficiency

Can be caused by cold, keeping plants too wet.

Use a general fertilizer, do not direct supplement!

Chlorosis or yellowing upper leaves - iron deficiency,

pH is too high!

Iron sulfate can be added in increments to reduce pH.

Overall yellowing of lower leaves - magnesium deficiency

Magnesium deficiency is very common in Georgia!

Use magnesium sulfate to increase Mg!

Planning Maintenance Is The Key!



Deadheading



Echinaceae

Removing Spent Flowers
Is Essential For Some Perennials



Verbascum

Renovating Perennial Beds

Perennial beds need to be renovated about every three years in Georgia:

- Soil compaction (from rain/people)
- Loss of organic material
- Dense growth of the perennial
- Overall performance decline



Most perennial beds are renovated by complete removal of established plants, division, soil amending, and replanting



Methods For Division



Fibrous Root Perennials



Dig up colony



Divide section of colony with new growth or runners.

Dividing Hostas



Dig colony



Wash Roots



Divide Plantlets



Separated plants

Dividing Rhizomatous Perennials



Dug roots are separated into small clusters



Divide growing points



Separated sections

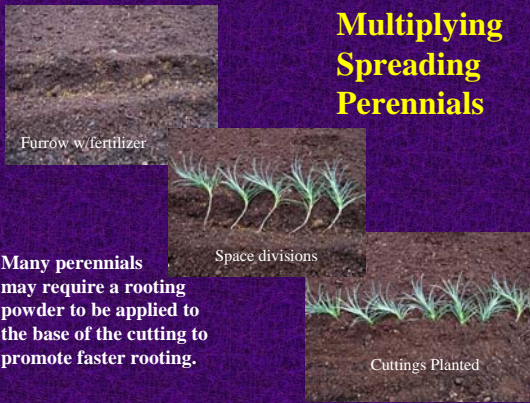
Dividing Spreading Perennials



Phlox subulata

Dianthus 'Bath's Pink'

Multiplying Spreading Perennials



Furrow w/fertilizer

Space divisions

Cuttings Planted

Many perennials may require a rooting powder to be applied to the base of the cutting to promote faster rooting.

The End Result!



Selecting Perennials



Selection Considerations

Most perennials do not live forever. In Georgia, most perennials live two to five years before perishing by disease, adverse weather or old age.

Plants such as Hosta, Lantana 'Miss Huff', Ruellia, Tritoma, Iris, Thrift, Daylillies and Soapwort are examples of very long-lived perennials. Coreopsis, Rudbeckia, Echinacea, Scabiosa, some Salvias and some Phlox are good examples of short-lived perennials.

Selection Considerations

Perennials are not low maintenance, in fact, they are second only to roses in terms of yearly maintenance efforts.

Perennials require watering, fertilizing, shaping, deadheading, fall mulching, spring cleaning, dividing, replacing, and insect, disease, and weed control.

Some perennials grow best when divided every few years. Perennial bed renovation should be considered every 3 to 5 years for optimal growth.

Selection Considerations

Many perennials start small and get large, or form big colonies. Planning for growth is essential.

Long-lived, vigorous species tend to “grow-over” less vigorous or short-lived species.

Within two or three years your garden can appear completely different due to this competition. Always leave room for new growth when placing perennials.

Selection Considerations

Some perennials are vigorous, aggressive, or even invasive. Containers and in-ground barriers can contain “running” or aggressive species.

Reseeding is a major problem with only a few perennials. Removing spent flowers before they set seed prevents reseeding problems.



Avoid Invasive Plants!

**Use Native Plants
Whenever Possible!**

Perennials For Sunny Locations



Pincushion Flower

Characteristics:
Nectar source
Mounding
15 - 18 inches tall

Location:
Full sun

Plant Spacing:
8 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
April - June

Culture Concerns:
Mites
Well-drained soils



Scabiosa caucasica

Russian Sage

Characteristics:
Nectar source
26 - 40 inches tall

Location:
Full sun

Plant Spacing:
10 - 15 inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
June - September

Culture Concerns:
Do not crowd with
other plants



Perovskia atriplicifolia

Perennial Chrysanthemum

- Characteristics:**
Mounding
Fall blooming
24 - 36 inches tall
- Location:**
Full sun
- Plant Spacing:**
15 inch centers
- Care and Feeding:**
Heavy fertility
Drought tolerant
Deer tolerant
- Bloom Period:**
August-September
- Culture Concerns:**
Stalls in drought



Dendranthemum x morifolium 'Ryan's Daisy'

Whirling Butterflies

- Characteristics:**
Nectar source
Drought tolerant
24 - 36 inches tall
- Location:**
Full sun
- Plant Spacing:**
8 inch centers
- Care and Feeding:**
Moderate fertility
Deer tolerant
- Bloom Period:**
June - August
- Culture Concerns:**
Trim no more than
the top 1/2 of spent
flower stalk.



Gaura lindheimeri

Speedwell

- Characteristics:**
Nectar source
18 - 30 inches tall
- Location:**
Full sun
- Plant Spacing:**
8 inch centers
- Care and Feeding:**
Moderate fertility
No drought
- Bloom Period:**
June - September
- Culture Concerns:**
Deadheading is
required



Veronica alpina

Summer Phlox

Characteristics:
Nectar source
Fragrant flowers
22 - 40 inches tall

Location:
Full sun
Part shade

Plant Spacing:
8 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
May - July

Culture Concerns:
Mildew
Deer



Phlox paniculata 'The King'

Stoke's Aster

Characteristics:
Nectar source
20 - 25 inches tall

Location:
Full sun
Partial shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
May - June

Culture Concerns:
Well-drained soils



Stokesia laevis 'Blue Danube'

Gay Feather

Characteristics:
Nectar source
Drought tolerant
24 - 36 inches tall

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
Well-drained soils

Bloom Period:
May - June

Culture Concerns:
Scout for bulb rot
Divide @ 3 years



Liatris spicata

Silver King

Characteristics:
High contrast
Drought tolerant
Silver foliage
20 - 40 inches tall

Location:
Full sun

Plant Spacing:
8 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
Inconspicuous

Culture Concerns:
Spreads rapidly



Artemisia 'Silver King'

Soapwort

Characteristics:
Nectar source
Fragrant flowers
Drought tolerant
12 - 18 inches tall

Location:
Full sun

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Requires trimming
to look neat



Saponaria ocyroides

Showy Evening Primrose

Characteristics:
Spring color
10 - 14 inches tall
Drought tolerant

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
April-May

Culture Concerns:
Spreads rapidly



Oenothera speciosa

Peony

Characteristics:
Fragrant flowers
24 - 30 inches tall

Location:
Full sun
Part shade

Plant Spacing:
18 inch centers

Care and Feeding:
Moderate fertility
No drought
High organic soils

Bloom Period:
June - August

Culture Concerns:
Keep moist in hot weather. Do not plant deep in clay.



Paeonia spp.

Shasta Daisy

Characteristics:
Spring color
18 - 24 inches tall

Location:
Full sun

Plant Spacing:
8 inch centers

Care and Feeding:
Low fertility
No drought
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Gets leggy if over fertilized



Chrysanthemum superbum

Garden Asters

Characteristics:
Nectar source
Late summer bloom
20 - 36 inches tall

Location:
Full sun

Plant Spacing:
36 inch centers

Care and Feeding:
Heavy fertility
No drought
Deer tolerant

Bloom Period:
August-September

Culture Concerns:
Do not crowd



Aster 'Country Gardens'

New York Aster

Characteristics:
Nectar source
Fall blooming
40 - 54 inches tall

Location:
Full sun

Plant Spacing:
24 inch centers

Care and Feeding:
Heavy fertility
No drought
Deer tolerant

Bloom Period:
August-September

Culture Concerns:
Do not crowd
young plants



Aster Novi-belgii

Daylily

Characteristics:
Drought tolerant
15 - 20 inches tall

Location:
Full / part shade
Full sun if moist

Plant Spacing:
12 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
June - July

Culture Concerns:
Declines in heat



Hemerocallis spp.

Mexican Sage

Characteristics:
Nectar source
30 - 54 inches tall
Drought tolerant

Location:
Full sun

Plant Spacing:
8 - 12 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
August-September

Culture Concerns:
Do not crowd
young plants



Salvia leucantha

Mexican Petunia

- Characteristics:**
 - Drought tolerant
 - 36 - 54 inches tall
- Location:**
 - Full sun
- Plant Spacing:**
 - 12 inch centers
- Care and Feeding:**
 - Moderate fertility
 - Deer tolerant
- Bloom Period:**
 - August- October
- Culture Concerns:**
 - Spreads slowly



Ruellia brittoniana

Garden Lilies

- Characteristics:**
 - 28 - 60 inches tall
 - Fragrant flowers
- Location:**
 - Full sun
- Plant Spacing:**
 - 8 inch centers
- Care and Feeding:**
 - Moderate fertility
 - No drought
- Bloom Period:**
 - June - August
- Culture Concerns:**
 - Well-drained soils



Lilium speciosum 'Rubrum'

Ornamental Onions & Garlic

- Characteristics:**
 - Nectar source
 - Drought tolerant
 - 10 - 48 inches tall
- Location:**
 - Full sun
- Plant Spacing:**
 - 2-3 bulbs in small groups works best
- Care and Feeding:**
 - Moderate fertility
 - Deer tolerant
- Bloom Period:**
 - June - August
- Culture Concerns:**
 - Some species may reseed



Allium schoenoprasum

Perennials For Dry Sunny Places



False Indigo

Characteristics:

Drought tolerant
28 to 56 inches tall

Location:

Full sun

Plant Spacing:

12 inch centers

Care and Feeding:

Low fertility
Deer tolerant

Bloom Period:

June - July

Culture Concerns:

Comes up late in
spring. Mark the
site!



Baptisia australis



Yellow Baptisia

Characteristics:

Drought tolerant
26 - 45 inches tall

Location:

Full sun

Plant Spacing:

8 - 10 inch centers

Care and Feeding:

Moderate fertility
Deer tolerant

Bloom Period:

June - July

Culture Concerns:

Comes up late -
mark the site!



Baptisia tinctoria

Tickseed

Characteristics:
18 - 28 inches tall

Location:
Full sun

Plant Spacing:
8 - 12 inch centers

Care and Feeding:
Moderate fertility
No drought
Deer tolerant

Bloom Period:
May - June

Culture Concerns:
Mites
Deadheading required



Coreopsis grandiflora

Swamp Sunflower

Characteristics:
Nectar source
Drought tolerant
72 - 96 inches tall

Location:
Full sun

Plant Spacing:
24 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
August-October

Culture Concerns:
Huge!
Spreads



Helianthus angustifolius

Red Hot Poker Plant

Characteristics:
Nectar source
Drought tolerant
36 - 48 inches tall

Location:
Full sun

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June - July

Culture Concerns:
Seedling color
varies. Colonizes



Kniphofia uvaria

Blue Sage

Characteristics:
Nectar source
Drought tolerant
24 - 54 inches tall

Location:
Full sun

Plant Spacing:
12 - 15 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
June - October

Culture Concerns:
Mid-summer and late summer trimmings help



Salvia guaranitica

Hardy Lantana

Characteristics:
Nectar source
Drought resistant
48 - 70 inches tall

Location:
Full Sun

Plant Spacing:
36 - 54 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Do not cut frosted branches until late spring, mound with leaves until April



Lantana camara 'Miss Huff'

Autumn Joy Sedum

Characteristics:
Nectar source
Drought tolerant
18 - 30 inches tall

Location:
Full sun

Plant Spacing:
8 - 10 inches

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July - August

Culture Concerns:
Well-drained soils



Sedum 'Autumn Joy'

Goldenrod

- Characteristics:**
 - Nectar source
 - Drought tolerant
 - 24 - 56 inches tall
- Location:**
 - Full sun
- Plant Spacing:**
 - 6 inch centers
- Care and Feeding:**
 - Low fertility
 - Deer tolerant
- Bloom Period:**
 - July - September
- Culture Concerns:**
 - Can be invasive



Solidago 'Peter Pan'

Bearded Iris

- Characteristics:**
 - Drought tolerant
 - 28 - 40 inches tall
- Location:**
 - Full sun
- Plant Spacing:**
 - 6 inch centers
- Care and Feeding:**
 - Moderate fertility
 - Deer tolerant
 - Well drained soils
- Bloom Period:**
 - June - August
- Culture Concerns:**
 - Rhizome rot
 - Rhizome borers



Iris ssp.

Butterfly Weed

- Characteristics:**
 - Nectar source
 - Drought tolerant
 - 18 - 30 inches tall
- Location:**
 - Full sun
- Plant Spacing:**
 - 10 inch centers
- Care and Feeding:**
 - Moderate fertility
 - Deer tolerant
- Bloom Period:**
 - June - August
- Culture Concerns:**
 - Comes up late - mark location.
 - Well-drained soils



Asclepias tuberosa

South American Verbena

- Characteristics:**
Nectar source
Drought tolerant
36 - 48 inches tall
- Location:**
Full sun
- Plant Spacing:**
8 - 12 inch centers
- Care and Feeding:**
Moderate fertility
Deer tolerant
- Bloom Period:**
June - October
- Culture Concerns:**
Mites
May reseed



Verbena bonariensis

Rigid Verbena

- Characteristics:**
Nectar source
Drought resistant
12 - 15 inches tall
- Location:**
Full sun
- Plant Spacing:**
6 inch centers
- Care and Feeding:**
Low fertility
Deer tolerant
- Bloom Period:**
June - August
- Culture Concerns:**
Can be invasive



Verbena rigida

Purple Cone Flower

- Characteristics:**
Nectar source
Drought tolerant
24 - 36 inches tall
- Location:**
Full sun
- Plant Spacing:**
8 - 10 inch centers
- Care and Feeding:**
Heavy fertility
Deer tolerant
- Bloom Period:**
May - August
- Culture Concerns:**
Deadheading is essential



Echinacea purpurea

Three Lobed Coneflower

Characteristics:
Nectar source
Drought tolerant

Location:
Full sun

Plant Size:
36-50 inches tall

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July - September

Culture Concerns:
Mildew
Dies out in wet,
warm weather



Rudbeckia triloba

Hardy Ice Plant

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

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
May - October

Culture Concerns:
Do not cover with
mulch in winter



Delosperma cooperi

Perennials For Shady Places



False Spirea

Characteristics:
Nectar source
24 - 30 inches tall

Location:
Partial shade

Plant Spacing:
12 - 18 inch centers

Care and Feeding:
Moderate fertility
No drought
High organic soils

Bloom Period:
May - June

Culture Concerns:
Mulch heavily
Keep moist



Astilbe x ardensii

Blackberry Lily

Characteristics:
Nectar source
Drought tolerant
18 - 28 inches tall

Location:
Partial shade

Plant Spacing:
8 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July - August

Culture Concerns:
Reseeds



Bellamcanda chinensis hybrid

Bee Balm

Characteristics:
Nectar source
Drought tolerant
18 - 36 inches tall

Location:
Partial shade
Full sun if moist

Plant Spacing:
10 - 12 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Spreads quickly
Mildew



Monarda didyma

Fragrant Solomon's Seals

Characteristics:
Nectar source
20 - 24 inches tall

Location:
Full shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Scalds in full sun



Polygonatum odoratum variegata

Coral Bells

Characteristics:
Purple foliage
15 - 20 inches tall

Location:
Full / partial shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June

Culture Concerns:
Bleaches in sun
when dry



Heuchera americana 'Purple Palace'

Silver Coral Bells

Characteristics:
Silver foliage
14 - 18 inches tall

Location:
Full shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
No drought
High organic soil

Bloom Period:
June

Culture Concerns:
Keep moist



Heuchera x brizoides 'Jack Frost'

Woodland Phlox

Characteristics:
Nectar source
Spring color
12 - 18 inches tall

Location:
Full shade to Full sun

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility

Bloom Period:
May - June

Culture Concerns:
Mites
Keep moist



Phlox stolonifera

Hosta

Characteristics:
Foliage effect
15 - 32 inches tall

Location:
Full shade

Plant Spacing:
15 - 18 inch centers

Care and Feeding:
Moderate fertility,
High organic soils

Bloom Period:
June - August

Culture Concerns:
Deer food!
Divide @ 5 years



Hosta 'Patriot'

Bleeding Hearts

Characteristics:
Spring flower
Unusual flowers
18 to 30 inches tall

Location:
Full shade

Plant Size:
12 inch centers

Care and Feeding:
Moderate fertility
No drought

Bloom Period:
June - August

Culture Concerns:
High organic soil
Keep moist



Dicentra spectabilis

Lenten Rose

Characteristics:
Spring blooms
15 - 24 inches tall

Location:
Full to partial shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
High organic soils

Bloom Period:
February-April

Culture Concerns:
Reseeds



Helleborus orientalis

Virginia Blue Bells

Characteristics:
Nectar source
Spring bloom
12 - 14 inches tall

Location:
Full /part shade

Plant Spacing:
8 inch centers

Care and Feeding:
Low fertility
No drought

Bloom Period:
June - August

Culture Concerns:
High organic soils



Mertensia virginica

Native Columbine

Characteristics:
Nectar source
15 - 24 inches tall

Location:
Partial shade

Plant Spacing:
4 inch center or
random seeding

Care and Feeding:
Moderate fertility
No drought
Deer tolerant

Bloom Period:
April-May

Culture Concerns:
High organic soil
Leaf miners



Aquilegia canadensis

Lily-Of-The-Valley

Characteristics:
Nectar source
Fragrant
8 – 12 inches tall

Location:
Full shade

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
No drought
Deer tolerant

Bloom Period:
May - June

Culture Concerns:
High organic soil



Convallaria majalis

Blue Stars

Characteristics:
Nectar source
24 - 40 inches tall
Drought tolerant

Location:
Full to partial shade

Plant Spacing:
12 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
April-June

Culture Concerns:
Stake young plants
Divide @ 5 years



Amsonia tabernaemontana

Spiderwort

Characteristics:
15 - 25 inches tall

Location:
Full to partial shade. Full sun if moist.

Plant Spacing:
10 inch centers

Care and Feeding:
Heavy fertility
No drought
Deer tolerant

Bloom Period:
May-June

Culture Concerns:
Declines in heat



Tradescantia virginiana

Purple Oxalis

Characteristics:
Purple foliage
4 - 9 inches tall

Location:
Full sun

Plant Spacing:
Corm clumps on
4 inch centers

Care and Feeding:
Heavy fertility
Organic soils
Deer tolerant

Bloom Period:
April - December

Culture Concerns:
Keep moist
Mites



Oxalis regnellii

Rooftop Iris

Characteristics:
15 - 18 inches tall

Location:
Full shade

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
No drought
Deer tolerant

Bloom Period:
May-June

Culture Concerns:
High organic soils



Iris tectorum

Perennial Vines



Silver Fleece Vine

Characteristics:
Trellis vine
5 - 8 feet / season
Drought tolerant

Location:
Full sun
Partial shade

Plant Spacing:
24 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Spreads rapidly



Polygonum aubretii

Clematis

Characteristics:
Trellis vine
4 - 6 feet / season

Location:
Full sun
Partial shade

Plant Spacing:
12 inch centers

Care and Feeding:
Heavy fertility
No drought

Bloom Period:
May - June

Culture Concerns:
Declines in heat



Clematis ssp.

Summer Sweet

Characteristics:
Nectar source
Drought resistant
10 - 12 feet/season

Location:
Full sun to
full shade

Plant Spacing:
24 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
August-September

Culture Concerns:
Cut back to thumb
wood each winter



Clematis paniculata

Summer Jasmine

Characteristics:
Nectar source
Trellis vine
Hedge mound
6 - 8 feet/ season

Location:
Full sun

Plant Spacing:
8 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
June - July

Culture Concerns:
Zone 6 or higher



Trachelospermum asiaticum

Hummingbird Honeysuckle

Characteristics:
Nectar source
Trellis vine
Drought tolerant
4 - 6 feet/season

Location:
Full sun
Partial shade

Plant Spacing:
10 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
May- June

Culture Concerns:
Trim @ 3 years to
keep shape/vigor



Lonicera sempervirens

Trumpet Vine

Characteristics:
Nectar source
Drought tolerant
8 - 10 feet/season

Location:
Full sun

Plant Spacing:
24"-36" inch
centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July- August

Culture Concerns:
Trim to thumb
wood @ 3 years &
every year after



Campsis radicans

Cross Vine

Characteristics:
Trellis vine

Location:
Full sun

Plant Spacing:
8 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
May-June

Culture Concerns:
Prune @ 3 years
and every other
year there after



Anisostichus capreolata

Perennial Ground Covers



Verbena canadensis

Characteristics:
Nectar source
5 - 8 inches tall

Location:
Full sun

Plant Spacing:
8-12 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
March - October

Culture Concerns:
Water and fertilize
in summer heat.
Trim when leggy.



Verbena canadensis 'Homestead Purple'

Bugle Weed

Characteristics:
Nectar source
Spring flowers

Location:
Full sun to
Full shade

Plant Spacing:
4-6 inch centers

Care and Feeding:
Low fertility
No drought
Deer tolerant

Bloom Period:
April-May

Culture Concerns:
May melt out in
summer heat



Ajuga reptans

Variegated Bugle Weed

Characteristics:
Nectar source
Spring flowers

Location:
Full sun
partial shade

Plant Spacing:
4 - 6 inch centers

Care and Feeding:
Low fertility
No drought
Deer tolerant

Bloom Period:
April-May

Culture Concerns:
Melts out in
summer heat



Ajuga reptans 'Gaiety'

Pigsqueak

Characteristics:
8 - 10 inches tall

Location:
Full shade

Plant Spacing:
6 - 8 inch centers

Care and Feeding:
Moderate fertility
No drought
Well drained soils

Bloom Period:
April-May

Culture Concerns:
Declines in heat



Bergenia cordifolia

Kamtschatka Stonecrop

Characteristics:
Nectar source
Drought tolerant
6 - 8 inches tall

Location:
Full sun

Plant Spacing:
4 - 6 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
June

Culture Concerns:
Well-drained soils



Sedum kamtschaticum

Monkey Grass

Characteristics:
Nectar source
Border planting
Drought tolerant
12 - 15 inches tall

Location:
Full sun
partial shade

Plant Spacing:
5 - 8 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
July- August

Culture Concerns:
Slow growing, but
the species can
become invasive
over time



Liriope muscari

Perennial Plumbago

Characteristics:
Drought tolerant
12 - 14 inches tall

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
June - August

Culture Concerns:
Spreads rapidly



Ceratostigma plumbaginoides

English Daisies

Characteristics:
Nectar source
4 - 6 inches tall

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Heavy fertility
Deer tolerant

Bloom Period:
June

Culture Concerns:
Spreads rapidly



Bellis perennis

Candytuft

Characteristics:
Spring flower
Drought tolerant
8 - 12 inches tall

Location:
Full sun

Plant Spacing:
6 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant

Bloom Period:
March-April

Culture Concerns:
Trim flat before mid
summer growth flush
for even blooms



Iberis sempervirens

Chameleon Plant

Characteristics:
Groundcover
6 - 8 inches tall

Location:
Full/partial shade

Plant Spacing:
8 inch centers

Care and Feeding:
Low fertility
No drought
Deer tolerant

Bloom Period:
Inconspicuous

Culture Concerns:
Can be invasive in
moist sites



Houttuynia cordata 'Chameleon'

Thrift

Characteristics:
Nectar source
Drought tolerant
3 - 6 inches tall

Location:
Full sun

Plant Spacing:
4 inch pots on
8 - 10 inch centers

Care and Feeding:
Heavy fertility
Well-drained soils

Bloom Period:
March-April

Culture Concerns:
Mites



Phlox subulata

Cheddar Pinks

Characteristics:
Nectar source
Drought tolerant
Good winter foliage
8 - 12 inches tall

Location:
Full sun

Plant Spacing:
4 inch pots on
8 - 10 inch centers

Care and Feeding:
Moderate fertility
Deer tolerant
Well-drained soils

Bloom Period:
May-June

Culture Concerns:
Root rots in summer



Dianthus gratianopolitanus

Obedient Plant

Characteristics:
Drought tolerant
36 - 54 inches tall
Cut flower

Location:
Full sun

Plant Spacing:
8 - 12 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
July - August

Culture Concerns:
Aggressive growth



Physostegia virginiana

Golden Yarrow

Characteristics:
Nectar source
Drought tolerant
15 - 20 inches tall

Location:
Full sun

Plant Spacing:
6 - 8 inch centers

Care and Feeding:
Low fertility
Deer tolerant

Bloom Period:
June - July

Culture Concerns:
Aggressive, gets
leggy if fertilized



Achillea filipendula

Unusual Perennials



Crinum Lily

Characteristics:
Nectar source
Drought tolerant
36 - 50 inches tall

Location:
Full sun

Plant Spacing:
Bulbs on 8" centers

Care and Feeding:
Heavy fertility
Well drained soils
Deer tolerant

Bloom Period:
June - July

Culture Concerns:
Clean debris away
in winter - requires
well-drained sites



Crinum ssp.

Joe Pye Weed

- Characteristics:**
 - Nectar source
 - Drought tolerant
 - 24 - 54 inches tall
- Location:**
 - Partial shade
 - Full sun
- Plant Spacing:**
 - 12 - 18 inch centers
- Care and Feeding:**
 - Moderate fertility
 - No drought
 - Deer tolerant
- Bloom Period:**
 - July - August
- Culture Concerns:**
 - Young plants may need staking



Eupatorium purpureum

Tibouchinia Athens Blue

- Characteristics:**
 - Hardy to zone 7
 - 48 - 60 inches tall
- Location:**
 - Full sun
 - Requires irrigation
- Plant Spacing:**
 - 12 inch centers
- Care and Feeding:**
 - Heavy fertility
 - Deer tolerant
- Bloom Period:**
 - August - October
- Culture Concerns:**
 - Mulch heavily in winter.



Tibouchina grandiflora 'Athens Blue'

Bethlehem Sage

- Characteristics:**
 - Great foliage
 - 12 - 15 inches tall
- Location:**
 - Part-full shade
- Plant Spacing:**
 - 14 inch centers
- Care and Feeding:**
 - Moderate fertility
 - No drought
 - Organic soils
 - Well-drained soils
- Bloom Period:**
 - June
- Culture Concerns:**
 - Do not mulch heavily



Pulmonaria saccharata

Japanese Aster

Characteristics:
Very floriferous
15 - 30 inches tall

Location:
Full sun

Plant Spacing:
10 inch centers

Care and Feeding:
Moderate fertility
Well-drained soils

Bloom Period:
June - August

Culture Concerns:
Do not mulch heavily



Kalimeris pinnatifida

Blue Nile Lily

Characteristics:
Great flowers
20 - 25 inches tall

Location:
Part - full sun
Near foundations

Plant Spacing:
14 inch centers

Care and Feeding:
Moderate fertility
No drought
Organic soils
Well-drained soils

Bloom Period:
May-June

Culture Concerns:
Mulch heavily



Agapanthus praecox

Garden Dahlia

Characteristics:
Large flowers
12 - 25 inches tall

Location:
Full sun

Plant Spacing:
12 inch centers

Care and Feeding:
Moderate fertility
No drought
Organic soils
Well-drained soils

Bloom Period:
June - September

Culture Concerns:
Mulch heavily or lift
tubers in North Georgia



Dahlia ssp.

Coral Vine

Characteristics:
Decorative foliage
3 - 5 feet / season

Location:
Part - full sun

Plant Spacing:
14 inch centers

Care and Feeding:
Moderate fertility
No drought
Organic soils
Well drained soils

Bloom Period:
July - August

Culture Concerns:
Spindly in low light



Antigonon leptopus

Harlequin Glory Bower

Characteristics:
Drought tolerant
60 - 120 inches tall!

Location:
Full sun - part shade

Plant Spacing:
4 foot centers

Care and Feeding:
Moderate fertility
Well-drained soils

Bloom Period:
July - August

Culture Concerns:
Spreads by runners. Can
get tree-like when mature



Clerodendrum trichotomum



Cuphea 'Georgia Scarlet'

Happy Gardening!
