

**A Photographic Companion**  
to Peterson & Brown's  
*Vascular Flora of the*  
*Little Thicket Nature Sanctuary*  
*San Jacinto County, Texas*

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## Introduction

Like most people, I use field guides to identify wildflowers. Also like most people, I leaf through the guides until I find a picture of the plant in question. The pictures usually don't "look like" the plant in question, however, even when correct. The problem I decided, is that the illustrations are too small and don't show all the features of the specimen. In that respect, I find that drawings, such as those in Peterson's Guide to Wildflowers of the Southwest and Texas often work better, but they still don't give one a good idea of the size of the plant.

Botanists use herbarium collections. They collect a specimen of the unknown plant and physically compare it to specimens in the herbarium. I've never visited one, but I've seen examples of the dried, brown, pressed specimens they contain. I prefer color.

I decided that what we amateur botanists need is a photographic herbarium in which all the species are presented life size, in color. Auxiliary macro or location photographs could illustrate key identifying features and the habitat it's found in. Having a four foot measuring stick in the location photograph also would provide size reference.

Thus, I decided to compile a companion to Peterson and Brown's *Vascular Flora of the Little Thicket Nature Sanctuary*. I figured it would take only a few seasons photographing the common wildflowers. That was 1997. I soon discovered that catching plants during the few weeks they bloom is not easy. Missing the bloom season of wanted species costs a year. This compilation has taken hundreds of trips to the sanctuary, more than a hundred rolls of film, and I still have only 260 species. It clearly is an ongoing project, but this summer I decided it's time to go to press.

Like most guide books, this book is organized by color. Within each color group, the species are in taxonomic order. Spiral binding and numbering the pages by chapter will allow me to fairly easily add updates by inserting pages at the end of chapters and updating the index. Unfortunately, preserving taxonomic order would require a complete reprint.

Photographically, the technique involved arranging the specimen on a gray 11x14" panel and photographing at 1/8 reproduction ratio. Making an 8x10 print is thus lifesize, which also fits nicely on letter size paper. Originally, I intended to use actual photographic prints from discount stores. Using a gray background (36% gray) was supposed to aid the automatic printing machines to reproduce accurate color. That didn't work. While the small prints usually had good color, the "custom" 8x10 prints were awful. I surmise the problem arose because of operator intervention trying to make me a "good" print instead of letting the automatic color correction do its thing.

The rapidly developing world of digital photography changed things. I abandoned the idea of real photographs in favor of digital color prints. By placing a 1/2x1" 18% gray chip in the field when taking the picture, one can use programs like Photoshop to properly correct the color. That, of course, required digitizing all the color negatives. An advantage of digitization is that one can make more copies of the final compilation. Only 4 photo copies were budgeted.

This compilation goes somewhat beyond the showy wildflowers. There are more than 500 plant species at the sanctuary. Including such things as trees, ferns, and grasses seemed like a good idea, though it quickly became somewhat more challenging botanically. As a physical chemist who has always concentrated on the hard sciences, this project has presented me an opportunity to learn some botany.



## **Organization**

Each species occupies two facing pages. The right hand page is a life size picture of the plant arranged as one might find it on a herbarium card, only 8x10inches rather than the 12x16 inches that herbariums use. At the top of the page you will find the species name, family, and the common name used by Peterson and Brown.

The left hand page has a brief description, in mostly lay terms, and cross references to several of the books and guides, listed below, one might want to refer to for additional information. The species name and family are repeated at the top of the page along with additional common names. All of the species and common names are contained in the index at the back of the book.

## **References**

### **Peterson & Brown**

Charles D. Peterson & Larry E. Brown "Vascular Flora of the Little Thicket Nature Sanctuary San Jacinto County, Texas" (1983)

### **Ajilvsgi**

Geyata Ajilvsgi, "Wild Flowers of the Big Thicket, east Texas, and western Louisiana." Texas A&M Press, College Station, Texas (1979)

### **Niehsus, Ripper & Savage**

Theodore F Niehaus, Charles L. Ripper, & Virginia Savage, "A Field Guide to Southwestern and Texas Wildflowers," Houghton Mifflin Company, Boston (1984)

### **Tveten & Tveten**

John & Gloria Tveten, "Wildflowers of Houston," Rice University Press, Houston (1993)

### **Correll & Johnston**

Donovan Stewart Correll & Marshall Conring Johnston, "Manual of the Vascular Plants of Texas," University of Texas at Dallas, Richardson, Texas (1979)

### **Shinners & Mahler**

George M. Diggs, Jr., Barney L. Lipscomb, & Robert J. O'Kennon, "Shinners & Mahler's Illustrated Flora of North Central Texas," Botanical Research Institute of Texas, Fort Worth (1999)

### **Vines**

Robert A Vines, "Trees, Shrubs, and Woody Vines of the Southwest," University of Texas Press, Austin (1960)

### **Cobb**

Boughton Cobbs, "A Field Guide to the Ferns," Houghton Mifflin Company, Boston (1963)

## **Acknowledgments**

I would like to thank all those persons who helped identify plants for me, in particular Charles Peterson and Dr. Larry Brown. I'd also like to thank the members of the Botany Group who wrote many of the descriptions, and Sharon Donahue who transcribed their hand written notes. And Connie of course, who helped with Pagemaker and Photoshop. Finally, I'd like to thank Wray Trust for their financial support to partially defray the photographic costs and the consumables used in printing this book.

Calvin R. Blakley, Ph.D.  
September, 2002



# Plants with White Flowers

***Arisaema dracontium*** Green dragon, Dragonroot  
ARACEAE, Arum family

Peterson & Brown — p37

Ajilvsgi — p104

Niehaus, Ripper & Savage — p404

Tveten & Tveten — p286

Correll & Johnston — p342

Shinners & Mahler — p1092

Vines — p

Cobb — p

General: Erect perennial succulent, to 3' high, woodlands

Leaves: Usually single, on long petiole to 3', 5-17 pointed leaflets

Flower: White, many very small on succulent tube extending several inches beyond sheathing bract. May-June

Fruit: Reddish ½" diameter

***Arisaema dracontium*** Green dragon  
ARACEAE, Arum family Cove, April, 2000 CR Blakley





***Allium canadense*** Canada Onion, Wild Onion  
LILIACEAE Lily family

Peterson & Brown — p40

Ajilvsgi — p113

Niehaus, Ripper & Savage — p16 (*Allium* sp)

Tveten & Tveten — p67

Correll & Johnston — p386

Shinners & Mahler — p1196

Vines — p

Cobb — p

General: Erect perennial to 2' tall, onion odor

Leaves: Basal, 1/8" wide, no longer than flower stalk

Flower: Numerous in terminal umbel, pinkish, 3-7 nerved bracts, often has bulblets instead of flowers

Fruit: Small, black, shiny, in capsule

***Allium canadense*** Canada Onion  
LILIACEAE Lily family Triangle, April, 2000 CR Blakley



***Allium drummondii*** Drummond Onion, Prairie Onion  
LILIACEAE Lily family

Peterson & Brown — p40

Ajilvsgi — p113 (*Allium* sp)

Niehaus, Ripper & Savage — p16

Tveten & Tveten — p67 (*Allium* sp)

Correll & Johnston — p388

Shinners & Mahler — p1197

Vines — p

Cobb — p

General: Erect perennial to 2' tall, onion odor

Leaves: Basal, 1/8" wide, no longer than flower stalk

Flower: Numerous in terminal umbel, 1 nerved bracts

Fruit: Small, black, shiny, in capsule

2X



white-6

***Allium drummondii*** Drummond Onion  
LILIACEAE Lily family Triangle, April, 2000 CR Blakley



***Northoscordum bivalve*** Yellow False Garlic, Crowpoison  
LILIACEAE Lily family

Peterson & Brown — p40

Ajilvsgi — p113

Niehaus, Ripper & Savage — p116

Tveten & Tveten — p69

Correll & Johnston — p391

Shinners & Mahler — p1208

Vines — p

Cobb — p

General: Erect perennial, to 18" tall, no onion odor

Leaves: Basal, grass like, 1/8" wide, not longer than flower stalk

Flower: Numerous in terminal umbel, whitish, with prominent stripes on outer surface

Fruit: Capsule, 1/4" long, seeds black



2X

white-8



***Northoscordum bivalve*** Yellow False Garlic  
LILIACEAE Lily family Cullinan Meadow, February, 2001 CR Blakley



***Polygonatum biflorum*** Solomon's Seal, Great Solomon's Seal

LILIACEAE Lily family

Peterson & Brown — p40

Ajilvsgi — p65

Niehaus, Ripper & Savage — p12

Tveten & Tveten — p

Correll & Johnston — p407

Shinners & Mahler — p1208

Vines — p

Cobb — p

General: Smooth perennial, solitary stem usually arching to horizontal position, to 3' tall. In moist areas on slopes, woodlands, edges of streams. Food and medicinal uses made by Cherokees.

Leaves: To 6" long, 2¾" wide. Alternate, stalkless, prominent, almost parallel veins.

Rhizome with numerous scars where stem breaks off each year. New scar thought to resemble the seal of King Solomon

Flower: Mar.-Apr., in pairs on long slender stalks dangling from leaf axils, 5/8" long, greenish white long tube, 6 lobed at rim.

Fruit:

*Polygonatum biflorum* Solomon's Seal  
LILIACEAE Lily family Little Jordan, April, 1999 CR Blakley



***Cooperia drummondii*** Rain-lily, Cebolleta, Evening Star Rain-lily  
AMARYLLIDACEAE Amaryllis Family

Peterson & Brown — p41

Ajilvsgi — p118

Niehaus, Ripper & Savage — 14

Tveten & Tveten — p24

Correll & Johnston — p417

Shinners & Mahler — p1200

Vines — p

Cobb — p

General: Erect perennial from black, 1" diameter bulb, to 12" high. Prairies, roadsides.

Leaves: From bulb, grass-like

Flower: Solitary, white, trumpet shaped, sometimes tinted, fragrant, opening in evening after rain. May to September

Fruit: Globe. Black numerous seeds.

4X



white-12



***Cooperia drummondii*** Rain-lily  
AMARYLLIDACEAE Amaryllis Family Cullinan Meadow, September, 1999 CR Blakley





***Spiranthes cernua*** Nodding ladies' tresses  
ORCHIDACEAE Orchid family

Peterson & Brown — p44

Ajilvsgi — p129

Niehaus, Ripper & Savage — p20

Tveten & Tveten — p74 (*S. vernalis*)

Correll & Johnston — p443

Shinners & Mahler — p1220

Vines — p

Cobb — p

General: Erect, perennial herb from tuberous roots, hairless below, downy above. Solitary stem with flower spike. Usually about 16" tall. Wet woods.

Leaves: Basal, narrow, lanceolate, 8-10" long

Flower: White, 2-4 spiral rows in terminal spike, to 6" long. Usually fragrant. 0.3-0.5" long. Lip oblong. Upper petals united, forming hood. July-December

Fruit: Capsule, many seeds.



Approximately life size

***Spiranthes cernua*** Nodding ladies' tresses  
ORCHIDACEAE Orchid family Cove, September, 1997 CR Blakley



***Spiranthes grayi*** Little ladies' tresses, Little Pearl Twist  
ORCHIDACEAE Orchid family

Peterson & Brown — p44

Ajilvsgi — p

Niehaus, Ripper & Savage — p20

Tveten & Tveten — p74 (*S. vernalis*)

Correll & Johnston — p444

Shinners & Mahler — p

Vines — p

Cobb — p

General: Slender plant, usually less than 15 ½" tall. In damp, sandy soil of shady forests. Common name derived from similarity to braided hair

Leaves: Narrow, grasslike

Flower: June-Aug. Tiny white flowers spiral around slender spike at top of plant.

Fruit: Capsule



2X

***Spiranthes grayi*** Little ladies' tresses  
ORCHIDACEAE Orchid family Entrance road, August, 2000 CR Blakley



***Spiranthes praecox*** Spring Ladies' Tresses, Grass-leaf Ladies' Tresses, GreenVein Ladies' Tresses

ORCHIDACEAE Orchid family

Peterson & Brown — p44

Ajilvsgi — p

Niehaus, Ripper & Savage — p20

Tveten & Tveten — p

Correll & Johnston — p444

Shinners & Mahler — p1222

Vines — p

Cobb — p

General: Erect perennial to 36" tall, single stalk. Low woods, wet areas

Leaves: Basal, grass-like, ¼-½" wide, 3-8" long

Flower: White, single spiral, usually loosely flowered, bottom lip widest at base, with parallel green veins

Fruit: Capsule



4X

white-18



***Spiranthes praecox*** Spring Ladies' Tresses  
ORCHIDACEAE Orchid family middle road, April, 1999CR Blakley



***Saururus cernuus*** Lizard's Tail, Water Dragon  
SAURURACEAE Lizard's Tail family

Peterson & Brown — p45

Ajilvsgi — p131

Niehaus, Ripper & Savage — p6

Tveten & Tveten — p91

Correll & Johnston — p448

Shinners & Mahler — p986

Vines — p

Cobb — p

General: Erect aromatic perennial, to 36" tall, adventitious roots on lower half. Water or mud

Leaves: Alternate, usually long petioled, lanceolate, to 6" long, 3" wide, notched base

Flower: Numerous, minute, white, on elongated, drooping spike

Fruit: Fleshy capsule

***Saururus cernuus*** Lizard's Tail  
SAURURACEAE Lizard's Tail family Chasm, July, 1999 CR Blakley



***Fatoua villosa*** Hairy Crabweed, Mulberry-weed  
MORACEAE Mulberry family

Peterson & Brown — p addendum

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p

Shinners & Mahler — p828

Vines — p

Cobb — p

General: Erect annual, hairy stems, usually not branched to 30" high. Native of East Asia. First reported in Texas 1978. Weed in lawns and flower beds

Leaves: Alternate, long petioled, broadly oval or deltoid

Flower: Male and female flowers clustered at axils, small

Fruit: Achene

***Fatoua villosa*** Hairy Crabweed  
MORACEAE Mulberry family Cove, May, 1998 CR Blakley





***Froelichia drummondii*** Drummond snake-cotton  
AMARANTHACEAE Amaranth family

Peterson & Brown — p50

Ajilvsgi — p135 (floridana)

Niehaus, Ripper & Savage — p38 (floridana)

Tveten & Tveten — p

Correll & Johnston — p570

Shinners & Mahler — p227

Vines — p

Cobb — p

General: Erect, stout annual. Branched in upper portion. To 4' tall. Probably a race of floridana. Dry sandy open fields.

Leaves: Few, opposite, lanceolate, pubescent. To 4" long, 3/4" wide.

Flower: White, tubular, 5 lobes, cotton like. Dense, 3" long spike, peduncled, terminal or from leaf axils. Usually branched. May-November

Fruit: Brown ovoid seed, 0.1" long.



*Froelichia drummondii* Drummond snake-cotton

AMARANTHACEAE Amaranth family Martin flat, September, 1997 CR Blakley





***Claytonia virginica*** Spring Beauty, Virginia Spring Beauty  
PORTULACACEAE Purslane Family

Peterson & Brown — p51

Ajilvsgi — p81

Niehaus, Ripper & Savage — p294

Tveten & Tveten — p

Correll & Johnston — p610

Shinners & Mahler — p908

Vines — p

Cobb — p

General: Delicate perennial to 12" tall in lawns, clearings, pastures and openings of thickets and woodlands.

Leaves: Succulent, grass-like, dark green.

Flower: White or rose colored veined with rose or pink. ½ to ¾" across. Jan.-Apr.

Fruit: Bulb-like corms eaten by many Indian tribes.

4X



white-26

***Claytonia virginica*** Spring Beauty  
PORTULACACEAE Purslane family Triangle, February, 2000 CR Blakley



***Cerastium glomeratum*** Mouse-ear Chickweed, Sticky Mouse-ear  
CARYOPHYLLACEAE Pink family

Peterson & Brown — p51

Ajilvsgi — p

Niehaus, Ripper & Savage — p46

Tveten & Tveten — p

Correll & Johnston — p619

Shinners & Mahler — p516

Vines — p

Cobb — p

General: Introduced, erect annual, to 18" high, branched, in fields.

Leaves: Opposite, hairy, rounded oval, to 1" long, sessile.

Flower: White, 5 petals, deeply notched. Sepals sharply pointed with long sticky hairs, usually longer than petals.

Fruit: Capsule, ¼" long, light brown, minute seeds.

4X



white-28



***Cerastium glomeratum*** Mouse-ear Chickweed  
CARYOPHYLLACEAE Pink family Cove, June, 1997 CR Blakley



***Stellaria media*** Common Chickweed, Starwort  
CARYOPHYLLACEAE Pink family

Peterson & Brown — p addendum

Ajilvsgi — p

Niehaus, Ripper & Savage — p46

Tveten & Tveten — p53

Correll & Johnston — p620

Shinners & Mahler — p525

Vines — p

Cobb — p

General: Trailing, mat forming to 30" long, in lawns, gardens. Single line of hairs along stem. Since chickweed thrives in winter when much else is dry & brown, birds eat the seeds and young shoots. Old names for the plant in several European languages. Means "a morsel for the birds".

Leaves: Oval, 1" long, opposite.

Flower: Nov-May. Small, white, star shaped, 5 petals-deeply divided - looks like 10.

Fruit: Capsule, seeds 1/16" long

4X



white-30

***Stellaria media*** Common Chickweed  
CARYOPHYLLACEAE Pink family NE fence, 1999 CR Blakley





***Anemone berlandieri*** Anemone, Ten Petal Anemone, Windflower  
RANUNCULACEAE Buttercup family

Peterson & Brown — p52

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p81

Correll & Johnston — p649 (*A. heterophylla*)

Shinners & Mahler — p918

Vines — p

Cobb — p

General: Erect perennial, mostly basal leaves with single flowered stem, to 12" high. Sandy clays.

Leaves: Basal, long petioled, deeply cut. Involucre mid stem, 3 short leaves once cut.

Flower: Usually white, ten sepals, 1 ½" diameter. February to April.

Fruit: Cylindric fruit head, 1/2 to 1" long

2X



white-32

***Anemone berlandieri*** Anemone  
RANUNCULACEAE Buttercup family Triangle, March, 2001 CR Blakley



***Cardamine bulbosa*** Bulbous Cardamine, Spring-cress, Bulb Bittercress  
CRUCIFERAE Mustard family

Peterson & Brown — p55

Ajilvsgi — p147

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p685

Shinners & Mahler — p464

Vines — p

Cobb — p

General: Erect perennial to 2' tall, mostly unbranched, or branched at top, hairy at bottom. Wet woods.

Leaves: Alternate. Simple. Basal leaves long petioled. Upper leaves sessile, smaller, narrow.

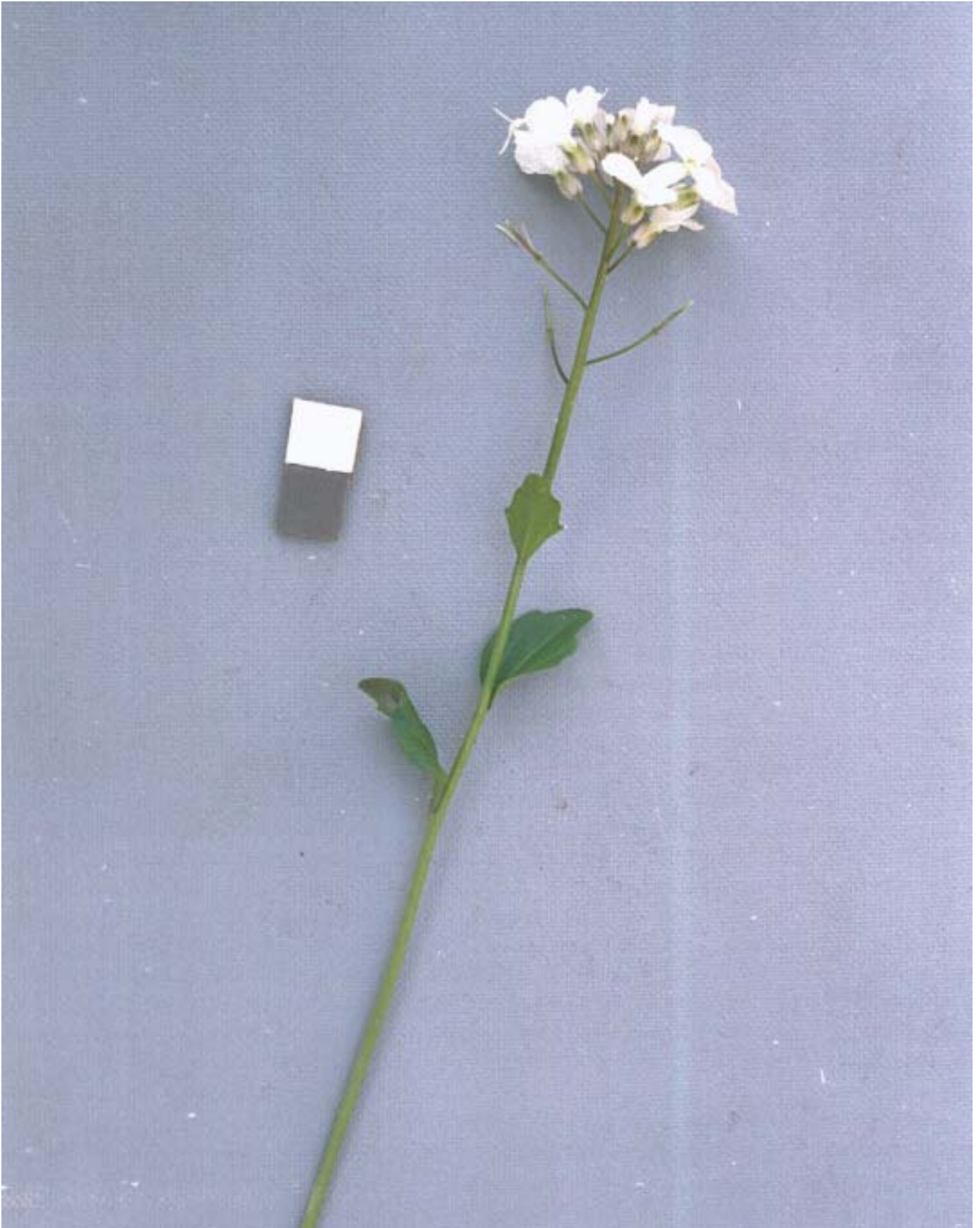
Flower: White, 4 petals to  $\frac{3}{4}$ " long, on loose terminal raceme.

Fruit: Many minute in long narrow silique, to 1" long.

2X



***Cardamine bulbosa*** Bulbous Cardamine  
CRUCIFERAE Mustard family Triangel, February, 2001 CR Blakley





***Itea virginica*** Virginia Sweetspire, Virginia Willow  
SAXIFRAGACEAE Saxifrage family

Peterson & Brown — p56

Ajilvsgi — p151

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p720

Shinners & Mahler — p

Vines — p307

Cobb — p

General: Shrub to 10' high, evergreen, often drooping. Along wooded streams.

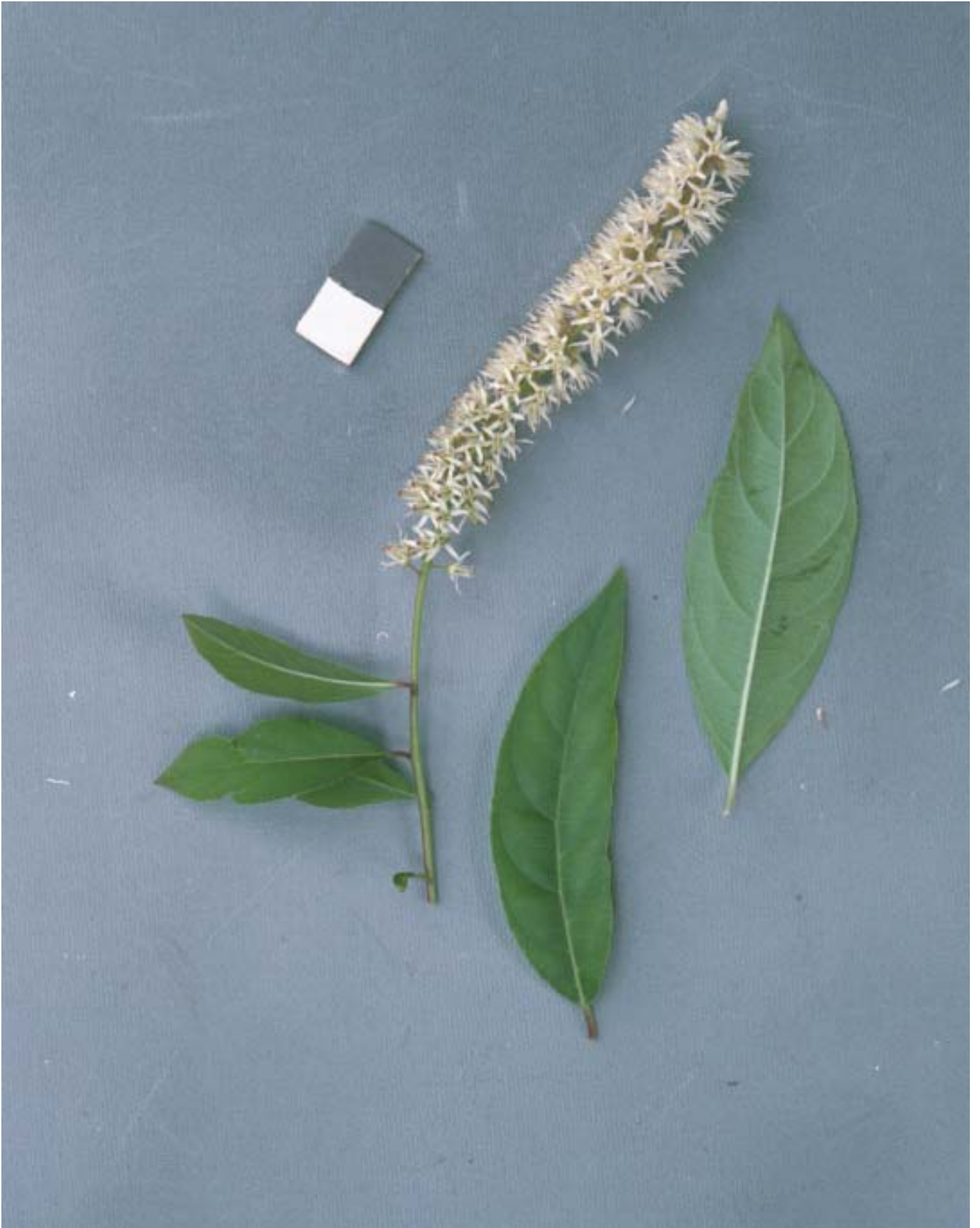
Leaves: Alternate, simple, ½" hairy petiole, oblong, pointed, to 3" long, 1" wide, red in fall.

Flower: White, ¼" long, on drooping, terminal raceme to 8" long. April to May.

Fruit: Capsule, brown seeds.



*Itea virginica* Virginia Sweetspire  
SAXIFRAGACEAE Saxifrage family Chasm, April, 2000 CR Blakley



***Crataegus engelmannii*** Engelm. Hawthorn  
ROSACEAE, Rose family

Peterson & Brown — p58

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p742

Shinners & Mahler — p942

Vines — p365

Cobb — p

General: Tree to 20' tall, horizontal branches, flat crown, prominent spines. Sandy woods.

Leaves: Alternate, deciduous, simple, oval, 1 ½" long, 1" wide, hairs on young leaves and twigs.

Flower: White, 5 petals, ¾" diameter, 8-12 flowers on hairy cyme. April

Fruit: 1/8" diameter, orange red, ripening November

*Crataegus engelmannii* Engelmann Hawthorn  
ROSACEAE, Rose family Triangle, April, 1998 CR Blakley



***Crataegus marshalii*** Parsley Hawthorn  
ROSACEAE, Rose family

Peterson & Brown — p58

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p737

Shinners & Mahler — p942

Vines — p335

Cobb — p

General: Tree to 20' tall, crooked, horizontal branches, flat crown, smooth gray bark, scattered 1-2" spines. Sandy woods.

Leaves: Alternate, deciduous, simple, round with flat base, 5-7 deep cuts, toothed margin, 1-2" petioles, older leaves with hairy veins.

Flower: White, 5 petals, 3/4" diameter, 3-12 flowers on corymb. March-April

Fruit: 1/3" diameter, bright red.

2X



white-40



*Crataegus marshalii* Parsley Hawthorn  
ROSACEAE, Rose family Triangle, April, 1999 CR Blakley





***Crataegus spathulata*** Littlehip Hawthorn

ROSACEAE, Rose family

Peterson & Brown — p58

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p737

Shinners & Mahler — p942

Vines — p335

Cobb — p

General: Tree to 25' tall, horizontal branches, broad, open crown, smooth, gray, flaking bark, sparse spines. Sandy woods.

Leaves: Alternate, deciduous, simple, spoon shaped, to 2" long, 1 ½" wide, 3-5 lobes, toothed margin, winged petioles, hairy veins.

Flower: White, 5 petals, ½" diameter, many flowers on corymb. March-May

Fruit: 1/4" diameter pome, bright red. October

***Crataegus spathulata*** Littlehip Hawthorn  
ROSACEAE, Rose family Triangle, April, 1999 CR Blakley



***Rosa laevigata*** Cherokee Rose  
ROSACEAE Rose family

Peterson & Brown — p59

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p754

Shinners & Mahler — p956

Vines — p438

Cobb — p

General: Introduced, evergreen, high climbing, prickly vine. Thickets

Leaves: Alternate, compound, 3 leaflets, broadly lanceolate, finely toothed, dark green upper surface, paler below.

Flower: White, solitary, large, petals to 2" long, fragrant, June

Fruit: Hips red, ¼" long

*Rosa laevigata* Cherokee Rose  
ROSACEAE Rose family Triangle, March, 2001 CR Blakley



***Rubus trivialis*** Southern Dewberry, Zarzamora  
ROSACEAE Rose family

Peterson & Brown — p60

Ajilvsgi — p155

Niehaus, Ripper & Savage — p

Tveten & Tveten — p84

Correll & Johnston — p748

Shinners & Mahler — p959

Vines — p452

Cobb — p

General: Perennial vine, rooting at tips, colonizing, curved prickles. Fencerows.

Leaves: Alternate, compound, 5 leaflets, lanceolate, sharply toothed, to 3" long.

Flower: White, solitary,  $\frac{3}{4}$ " diameter, 5 broad petals. March-April

Fruit: Oblong, black when ripe, edible. June-July.



***Rubus trivialis*** Southern Dewberry  
ROSACEAE Rose family Cove, March, 1999 CR Blakley



***Croton capitatus*** Woolly croton, Hogwort  
EUPHORBIACEAE Spurge family

Peterson & Brown — p68

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p292

Correll & Johnston — p935

Shinners & Mahler — p599

Vines — p

Cobb — p

General: Tap rooted annual herb, branched, 6-48" tall, sandy fields.

Leaves: Alternate (opposite-like near flowers, lanceolate, usually blunt, 1-3" long. Stellate hairs. Whitish grey.

Flower: White, inconspicuous. Male flowers above female, to 1" long spikelike raceme. Summer-fall

Fruit: Globose capsule, 0.3" long. Seeds 0.2" long.



white-48

***Croton capitatus*** Woolly croton  
EUPHORBIACEAE Spurge family Cove, September, 1997 CR Blakley



***Croton glandulosus*** Glandular croton, Tropic Croton  
EUPHORBIACEAE Spurge family

Peterson & Brown — p68

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p292

Correll & Johnston — p935

Shinners & Mahler — p599

Vines — p

Cobb — p

General: Tap rooted annual herb, branched, 4-20" tall, bottom lands.

Leaves: Alternate, narrow oblong, 1/2-3" long. Stellate hairs. Toothed margin. Indistinct glands on underside next to petiole

Flower: White, inconspicuous. Male flowers above female, to 1" long spikelike raceme. Spring-fall

Fruit: Globose capsule, 0.5" long. Seeds 0.2" long.

4X



white-50



***Croton glandulosus*** Glandular croton  
EUPHORBIACEAE Spurge family Cove, September, 1997 CR Blakley





***Croton monanthogynus*** Oneseed croton, Doveweed, Prairie-Tea  
EUPHORBIACEAE Spurge family

Peterson & Brown — p68

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p292

Correll & Johnston — p937

Shinners & Mahler — p600

Vines — p

Cobb — p

General: Tap rooted annual herb, widely branched, 2-12" tall, calcareous soils.

Leaves: Alternate, lower leaves circular, upper leaves narrow, 1/2-1" long. Stellate hairs.

Flower: White, inconspicuous. Male flowers above female, to 1" long spikelike raceme. Spring-fall

Fruit: Oval capsule, 0.2" long. One seed 0.1" long.

4X



***Croton monanthogynus*** Oneseed croton  
EUPHORBIACEAE Spurge family Cove, September, 1997 CR Blakley





***Euphorbia bicolor*** Snow-on-the-prairie  
EUPHORBIACEAE Spurge family

Peterson & Brown — p69

Ajilvsgi — p184

Niehaus, Ripper & Savage — p74

Tveten & Tveten — p60

Correll & Johnston — p966

Shinners & Mahler — p606

Vines — p

Cobb — p

General: Erect annual herb, 1-3' tall. Solitary stem, branching in upper portion, milky sap. Heavy clay soil.

Leaves: Alternate, usually sessile, lanceolate, rarely white margined. 1.5-4" long, 0.2-0.3" wide.

Flower: : Cyathia (characteristic of genus euphorbia) solitary in forks of cyme branches, containing 35 staminate flowers and one pistillate flower. 0.5" long peduncle. Surrounded by narrow, 1-2" long, white-margined leafy bracts. July-November

Fruit: Capsule, 0.3" long, usually pubescent. Seed dark gray, ovoid, 0.2" long



white-54

***Euphorbia bicolor*** Snow-on-the-prairie  
EUPHORBIACEAE Spurge family Big Meadow, September, 1997 CR Blakley



***Euphorbia corollata*** Flowering Spurge, Tramp's Spurge  
EUPHORBIACEAE Spurge family

Peterson & Brown — p69

Ajilvsgi — p185

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p969

Shinners & Mahler — p606

Vines — p

Cobb — p

General: Erect perennial to 3' tall, usually solitary with few branches, milky sap, sandy areas

Leaves: Alternate at bottom, opposite to whorled at top, short petioles, narrowly oblong to 1 ½" long.

Flower: White, numerous, no petals, appears as 5 petaled flower, 1 pedicelled pistil appearing as small ball hanging to side. June - November

Fruit: Capsule, 3 seeds.

4X



white-56



***Euphorbia corollata*** Flowering Spurge  
EUPHORBIACEAE Spurge family NE Fence, July, 2000 CR Blakley



***Rhus toxicodendron*** Poison ivy  
ANACARDIACEAE Sumac family

Peterson & Brown — p70

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p990

Shinners & Mahler — p236

Vines — p

Cobb — p

General: Small shrub or ropy vine with aerial roots.

Leaves: Alternate, compound, 3 leaflets. Variable margins, usually coarsely toothed. Usually pointed at tip, rounded at base. Terminal leaflet 1.5-8" long, 1-5" wide. Petioles 0.5-4" long.

Flower: White. Inconspicuous, on lateral panicles.

Fruit: White berry, 0.3" diameter



***Rhus toxicodendron*** Poison ivy  
ANACARDIACEAE Sumac family wide spread, April, 1998 CR Blakley





***Viola primulifolia*** Primroseleaf violet

VIOLACEAE Violet family

Peterson & Brown — p76

Ajilvsgi — p200

Niehaus, Ripper & Savage — p50

Tveten & Tveten — p

Correll & Johnston — p1076

Shinners & Mahler — p

Vines — p

Cobb — p

General: Low perennial spreading from runners rooting at nodes. Wet forests, often by streams.

Leaves: From rhizome, broadly heart shaped, tapering to petiole as long or longer than blade. 1-4" long. Margins blunt toothed.

Flower: White. Solitary, stalks often longer than leaves. 5 petals, bilaterally symmetric. Bottom petal bearded, spurred, usually has light blue veins. March-May

Fruit: Green capsule, 0.3" long, on erect stalk. Many seeds.

***Viola primulifolia*** Primroseleaf violet  
VIOLACEAE Violet family Little Jordan, April, 1998 CR Blakley





***Viola lanceolata*** Lanceleaf Violet, Lance-leaved Violet  
VIOLACEAE Violet family

Peterson & Brown — p76

Ajilvsgi — p200

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1076

Shinners & Mahler — p

Vines — p

Cobb — p

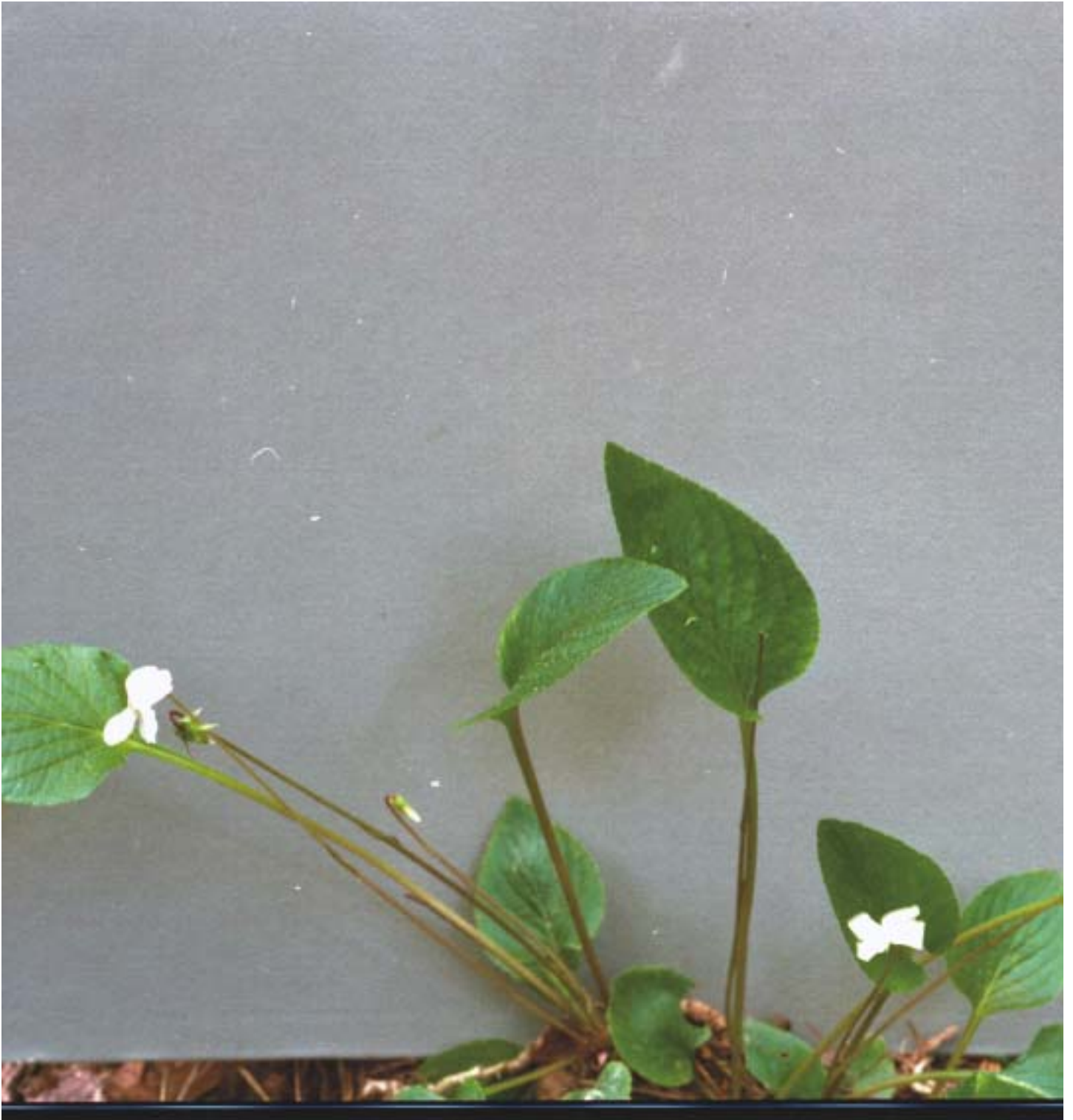
General: Open woodland, perennial with runners, rooting at nodes forming colonies.

Leaves: - Long, slender stem. Lance shaped leaf.

Flower: - Feb.-Apr. Single flower, white with blue veins on long stalk. Typical violet flower.

Fruit: Capsule, numerous minute seeds.

***Viola lanceolata*** Lanceleaf Violet  
VIOLACEAE Violet family Little Jordan, April, 1999 CR Blakley



***Apium leptophyllum*** Wild Celery  
UMBELLIFERAE, APIACEAE Parsley family

Peterson & Brown — p79

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1151

Shinners & Mahler — p249 (*Cyclospermum leptophyllum*)

Vines — p

Cobb — p

General: Introduced erect annual, to 20" tall. Moist soil

Leaves: Alternate, pinnately compound, to 4" long, 3" wide.

Flower: White, on umbel with peduncles to 1". March-June

Fruit: Oval, 1/8" long.

4X



***Apium leptophyllum*** Wild Celery  
UMBELLIFERAE, APIACEAE Parsley family Triangle, June, 1999 CR Blakley



***Chaerophyllum tainturieri*** Tainturier Chervil  
UMBELLIFERAE, APIACEAE Parsley family

Peterson & Brown — p79

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1151

Shinners & Mahler — p249 (*Cyclospermum leptophyllum*)

Vines — p

Cobb — p

General: Erect annual, to 30" tall, hairy, branching near base. Moist soil

Leaves: Alternate, pinnately compound, to 5" long, 4" wide.

Flower: White, 5 petals. March-April

Fruit: Oval, 1/4" long.

4X



white-66



***Chaerophyllum tainturieri*** Tainturier Chervil  
UMBELLIFERAE, APIACEAE Parsley family Cullinan Meadow, May, 1999 CR Blakley



***Eryngium yuccifolium*** Button snakeroot, Yuccaleaf snakeroot, Bristle-leaf eryngo  
UMBELLIFERAE, APIACEAE Parsley family

Peterson & Brown — p80

Ajilvsgi — p215

Niehaus, Ripper & Savage — p62

Tveten & Tveten — p30

Correll & Johnston — p1165

Shinners & Mahler — p252

Vines — p

Cobb — p

General: Erect perennial to 4' tall, branching in upper portion. Rich prairies.

Leaves: Alternate, grass-like from base, to 3' long, 1" wide, sharply pointed, bristly edges.

Flower: White, numerous in globular cluster 1" diameter on long peduncle, style extends beyond petals.  
May-August

Fruit: ¼" long.

September, Big Meadow



white-68



*Eryngium yuccifolium* Button snakeroot  
UMBELLIFERAE, APIACEAE Parsley family Triangle, July, 1998 CR Blakley



***Sanicula canadensis*** Black snakeroot, Canada Sanicle  
UMBELLIFERAE, APIACEAE Parsley family

Peterson & Brown — p80

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1164

Shinners & Mahler — p260

Vines — p

Cobb — p

General: Erect biennial to 3' tall, branching in upper portion. Moist woods.

Leaves: Alternate, palmately 3 (sometimes 5) parted, to 5" long, 6" wide.

Flower: White, few in umbel. April-June.

Fruit: ¼" diameter, bristly.

4X



white-70

***Sanicula canadensis*** Black snakeroot  
UMBELLIFERAE, APIACEAE Parsley family Triangle, July, 1998 CR Blakley





***Monotropa uniflora*** Indian-pipe  
ERICACEAE Heath family

Peterson & Brown — p81

Ajilvsgi — p220

Niehaus, Ripper & Savage — p314

Tveten & Tveten — p

Correll & Johnston — p1180

Shinners & Mahler — p584

Vines — p

Cobb — p

General: Saprophytic herb, multistemmed from matted fibrous roots. Initially erect, waxy white, then nodding, turning pink, drying black. 4-8" tall. Moist pine-hardwoods in deep humus.

Leaves: Scalelike, 0.5" long.

Flower: White, solitary, nodding, 1" long, 5 or 6 petals. April-November.

Fruit: Capsule, ovoid, 0.7" long, brown seeds



white-72

***Monotropa uniflora*** Indian-pipe  
ERICACEAE Heath family Little Jordan, September, 1997 CR Blakley



***Rhododendron oblongifolium*** Texas Azalea, White Azalea, Bush Azalea, Thicket Azalea, White-bush Honeysuckle  
ERICACEAE Heath family

Peterson & Brown — p82

Ajilvsgi — p219

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1178

Shinners & Mahler — p

Vines — p929

Cobb — p

General: Erect to spreading, branching shrub to 8' tall.

Leaves: Alternate, deciduous, elliptical to 4" long.

Flower: Few to several in showy terminal clusters, opening after leaves appear, white, 1 ½" long, trumpet shaped, 5-lobed. April to September.

Fruit: Capsule, hairy, black, ¾" long.

*Rhododendron oblongifolium* Texas Azalea  
ERICACEAE Heath family Little Jordan, April, 1999 CR Blakley



white-75



***Polyprenum procumbens*** Polly-prim, Juniper leaf  
LOGANIACEAE Logania family

Peterson & Brown — p84

Ajilvsgi — p225

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1202

Shinners & Mahler — p480

Vines — p

Cobb — p

General: Smooth perennial, erect or spreading often forming a tangled, circular mass of many branches.  
Stable dunes, meadows, roadsides, lawns.

Leaves: Narrowly linear to 1¼" long, opposite, often with smaller leaves clustered in axils

Flower: White, solitary ¼" across, 4 petals Apr.-Nov.

Fruit: Capsule. Many seeds.

***Polypremum procumbens*** Polly-prim  
LOGANIACEAE Logania family King's Hill, June, 1998 CR Blakley



***Asclepias variegata*** White-Flowered Milkweed  
ASCLEPIADACEAE Milkweed family

Peterson & Brown — p86

Ajilvsgi — p233

Niehaus, Ripper & Savage — p70

Tveten & Tveten — p

Correll & Johnston — p1228

Shinners & Mahler — p280

Vines — p

Cobb — p

General: Perennial to 3' tall with milky sap. Usually a single stem often zigzag at top. Found in sandy or rocky soil in thickets and open woods. Genus named for Greek God of Medicine. Milkweeds have been used for medicines for centuries.

Leaves: Opposite, 2-5 pairs, green fuzzy on bottom. Stalked, lowest pair smaller than others. Variable in shape, broadly lanceolate to almost round.

Flower: Showy rounded clusters to 3" wide. White flowers with purple central marking. Apr.-July

Fruit: 3-4" long, ½" across tapering at both ends. Many seeds, each with tuft of long white hair.

Seed pods, September



white-78

***Asclepias variegata*** White-Flowered Milkweed  
ASCLEPIADACEAE Milkweed family Middle Road, May, 1998 CR Blakley





***Cuscuta glomerata*** Dodder, Love-vine, Cluster Dodder, Glomerate Dodder

CONVOLVULACEAE Morning-glory family

Also CUSCUTACEAE Dodder Family

Peterson & Brown — p

Ajilvsgi — p240 (*C. sp.*)

Niehaus, Ripper & Savage — p234 (*C. sp.*)

Tveten & Tveten — p56 (*C. indecora*)

Correll & Johnston — p1260

Shinners & Mahler — p573

Vines — p

Cobb — p

General: Leafless, rootless, parasitic herb with yellow or orange stems. Some put *Cuscuta* in its own family, *Cuscutaceae*. Preferred host plants are composites, particularly goldenrod.

Leaves: None. Stems tightly wound around host

Flower: White, sessile, 0.2" long, in parallel rows along stem, surrounded by laceolate bracts with coiled tips.

Fruit: Capsule, holding the withered corolla tube.

4X



white-80

***Cuscuta glomerata*** Dodder

CONVOLVULACEAE Morning-glory family Big Meadow, September, 1997 CR Blakley





***Dichondra carolinensis*** Pony-foot  
CONVOLVULACEAE Morning-glory family

Peterson & Brown — p87

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p54

Correll & Johnston — p1243

Shinners & Mahler — p552

Vines — p

Cobb — p

General: Prostrate, mat forming perennial. To 4" high, rooting at nodes. Damp sand

Leaves: Round, notched at base, long petioled from nodes. 1" diameter.

Flower: Greenish white, minute, 1/8" diameter, 5 petals united at base, on stalks from node, shorter than leaf stalk.

Fruit: Capsule

4X



white-82

***Dichondra carolinensis*** Pony-foot  
CONVOLVULACEAE Morning-glory family Triangle, May, 1998 CR Blakley





***Heliotropium tenellum*** Pasture heliotrope  
BORAGINACEAE Borage family

Peterson & Brown — p88

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1290

Shinners & Mahler — p450

Vines — p

Cobb — p

General: Erect annual to 18" tall. Branched in upper portion, ascending stems. Calcareous soils.

Leaves: Simple, alternate, linear, to 3" long, ¼" wide, curled edges.

Flower: White, yellow throat, tubular, ¼" diameter, 5 deep lobes, solitary at ends of branches.

Fruit: 1/8" long seed.

4X



***Heliotropium tenellum*** Pasture heliotrope  
BORAGINACEAE Borage family Cullinan meadow, June, 2000 CR Blakley



***Phyla incisa*** Frogfruit, Texas Frog-fruit, Fog-fruit, Capeweed  
VERBENACEAE Verbena family

Peterson & Brown — p88

Ajilvsgi — p248

Niehaus, Ripper & Savage — p

Tveten & Tveten — p96

Correll & Johnston — p1332

Shinners & Mahler — p

Vines — p

Cobb — p

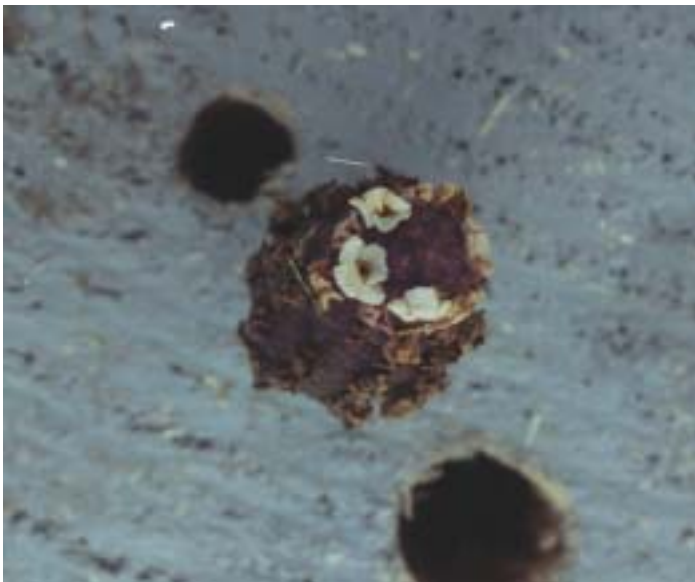
General: Creeping perennial, rooting at nodes, forming mats. Fields.

Leaves: Opposite, sessile, usually spatulate, to 2" long, ¾" wide, coarsely toothed, hairy both sides.

Flower: White, yellow center, small, tubular, 5 lobes, many on cylindrical head

Fruit: Nutlets, tan, minute seeds.

4X



white-86

***Phyla incisa*** Frogfruit

VERBENACEAE Verbena family Triangle, June, 1998 CR Blakley





***Lycopus virginicus*** Virginia Bugleweed  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p90

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1376

Shinners & Mahler — p762

Vines — p

Cobb — p

General: Erect perennial to 30" tall, from stolons. Square stems. Not fragrant. Marshy soils.

Leaves: Opposite, sessile, lanceolate, to 6" long, 2" wide, purple tinged, coarsely toothed.

Flower: White. In axillary whorls. August-December.

Fruit: Nutlet. 1 seed per nutlet.

4X



white-88

***Lycopus virginicus*** Virginia Bugleweed  
LAMIACEAE (LABIATAE) Mint family Little Jordan, September, 1999 CR Blakley



***Monarda citriodora*** Lemon Horse-mint, Plains horsemint, Lemon Beebalm  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p90

Ajilvsgi — p

Niehaus, Ripper & Savage — p90

Tveten & Tveten — p204

Correll & Johnston — p1372

Shinners & Mahler — p765

Vines — p

Cobb — p

General: Annual or biennial Herb to 2.5'. Square stems. Usually not branched except near flower head. Sandy loam.

Leaves: Opposite. Lanceolate. 1-3" long, 0.5" wide. Usually toothed.

Flower: White or Pink. 0.8" long in pagoda like whorls. Prominent 0.3" long bristles on calyx. Lower lip of corolla squared-off. Flower leaves yellow or pink. April-October

Fruit: Nutlet. 1 seed per nutlet.

2X



white-90



***Monarda citriodora*** Lemon Horse-mint  
LAMIACEAE (LABIATAE) Mint family Cullinan meadow, April, 1998 CR Blakley





***Perilla frutescens*** Beefsteak-plant, Common Perilla  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p90

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1376

Shinners & Mahler — p768

Vines — p

Cobb — p

General: Introduced, branched annual to 3 feet tall, usually much lower. Habitat moist or dry wooded bottomlands. Introduced from India as an ornamental, widely naturalized. Seeds & leaves eaten in Japan. Seeds contain an edible oil which is also used as a cheap lacquer.

Leaves: On long stems, large, soft, ovate to oblong, coarsely toothed, either green or shades of purplish-brown; highly aromatic.

Flower: Small, white or purplish, in spikelike clusters (cymes) arising from leaf axils on stalks (peduncles) with small bractlike leaflets. The 5 floral lobes, well rounded. July-November.

Fruit: Nutlet.

***Perilla frutescens*** Beefsteak-plant  
LAMIACEAE (LABIATAE) Mint family Cove, August, 1999 CR Blakley



***Pycnanthemum tenuifolium*** Narrowleaf Mountain-mint, Slender Mountain-mint, Slender-leaf Mountain-mint

LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p91

Ajilvsgi — p258 (*P. albescens*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1385

Shinners & Mahler — p772

Vines — p

Cobb — p

General: Erect perennial to 3' tall, highly aromatic, much branched, forms colonies. Grassy moist open woods.

Leaves: Opposite, sessile, narrowly linear, ¼" wide, to 6" long.

Flower: White, to pale lavender, often with purple spots, small, 1/8" long. In dense corymbs. May-October.

Fruit: Nutlet with 1 seed.

***Pycnanthemum tenuifolium*** Narrowleaf Mountain-mint  
LAMIACEAE (LABIATAE) Mint family Triangle, May, 2000 CR Blakley





***Yeatesia viridiflora*** Yeatesia, Green-Flowered Yeatesia  
ACANTHACEAE Acanthus family

Peterson & Brown — p94

Ajilvsgi — p274

Niehaus, Ripper & Savage —

Tveten & Tveten —

Correll & Johnston — p1208

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial to 20" tall, normally shorter. Often prominent ring above leaf nodes. Pine woods.

Leaves: Opposite, lanceolate, tapering to short petiole. 5" long, 2" wide.

Flower: White, numerous, axillary or terminal. Trumpet shaped corolla, 0.5" long, 3 or 4 lobes. Calyx sessile, deeply 5 lobed, sharply bristled. July-October

Fruit: Capsule, 4 seeds.

2X



white-96

*Yeatesia viridiflora* Yeatesia  
ACANTHACEAE Acanthus family Cove, May, 1999 CR Blakley



***Cephalanthus occidentalis*** Button Bush, Honey Balls, Globe Flower, Spanish Pincushion, Pinball, Uvero, Crouper-bush  
RUBIACEAE Madder family

Peterson & Brown — p95

Ajilvsgi — p276

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1491

Shinners & Mahler — p962

Vines — p937

Cobb — p

General: Shrub or small tree 5'-10', often in wet habitat.

Leaves: - Opposite, sometimes in threes or fours, deciduous, 7½" long, 3 1/8" wide. Wedge shaped or rounded at base, entire.

Flower: Small, densely clustered into spherical heads, white to yellowish, ¼"-3/8" long. June-Sept.

Fruit: Capsule



white-98



***Cephalanthus occidentalis*** Button Bush  
RUBIACEAE Madder family Half Moon Lake, July, 1998 CR Blakley





***Galium aparine*** Catchweed Bedstraw, Goosegrass Cleavers, Sweethearts  
RUBIACEAE Madder family

Peterson & Brown — p96

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1485

Shinners & Mahler — p964

Vines — p

Cobb — p

General: Reclining annual to 3' long, hooked hairs that catch clothing. Waste areas.

Leaves: 6-8 whorled, sessile, linear, to 3" long, bristle tipped.

Flower: White, 1-3 flowers on peduncle from axils.

Fruit: Capsule, bristly, 1/8" diameter

4X



white-100

***Galium aparine*** Catchweed Bedstraw  
RUBIACEAE Madder family Cullinan Meadow, April, 1999 CR Blakley



***Hedyotis australis*** White Bluet, Southern Bluets  
RUBIACEAE Madder family

Peterson & Brown — p96

Ajilvsgi — p276

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1489

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual to 4" tall, often in dense colonies. Fields.

Leaves: Opposite, sessile, spatulate, to ½" long, 1/8" wide.

Flower: White, solitary, terminal, trumpet shaped, 4lobes, stamens not exerted. February-April.

Fruit: Capsule, minute seeds.

4X



white-102

***Hedyotis australis*** White Bluet  
RUBIACEAE Madder family Cove, March, 1998 CR Blakley





***Lonicera japonica*** Japanese Honeysuckle  
CAPRIFOLIACEAE Honeysuckle family

Peterson & Brown — p97

Ajilvsgi — p279

Niehaus, Ripper & Savage — p

Tveten & Tveten — p51

Correll & Johnston — p1500

Shinners & Mahler — p508

Vines — p955

Cobb — p

General: Introduced, high climbing woody perennial vine, forms mats. Fragrant. Shreddy bark. Open woods, edges.

Leaves: Opposite, evergreen, broadly lanceolate, to 3" long, 1 ½" wide, short petioled.

Flower: White. Paired on axillary peduncle, 1 ½" long, 2 lipped, upper lip 4 lobed, lower lip unlobed. March-July.

Fruit: Berry, black, ¼" diameter.

*Lonicera japonica* Japanese Honeysuckle  
CAPRIFOLIACEAE Honeysuckle family Martin Flat, June, 1999 CR Blakley



***Sambucus canadensis*** American Elder, Elderberry, Common Elderberry  
CAPRIFOLIACEAE Honeysuckle family

Peterson & Brown — p97

Ajilvsgi — p279

Niehaus, Ripper & Savage — p

Tveten & Tveten — p52

Correll & Johnston — p1499

Shinners & Mahler — p510

Vines — p941

Cobb — p

General: Shrub or tree to 30' tall, usually multistemmed. Rich, moist soil.

Leaves: Opposite, deciduous, pinnately compound, usually 5-7 leaflets, elliptical, to 6" long, 2" wide. Lower surface paler.

Flower: White, on conspicuous terminal convex cyme. Short corolla tube, 5 lobes ¼" across, stamens exerted. May-July.

Fruit: Drupe, purple or black when ripe. ¼" diameter.

4X



white-106



***Sambucus canadensis*** American Elder  
CAPRIFOLIACEAE Honeysuckle family Big Tree Trail, June, 1999 CR Blakley





***Viburnum dentatum*** Arrow-wood Viburnum, Southern Arrowwood, Mealy-tree  
CAPRIFOLIACEAE Honeysuckle family

Peterson & Brown — p98

Ajilvsgi — p278

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1498

Shinners & Mahler — p

Vines — p964

Cobb — p

General: Shrub to 15', highly variable. Moist sandy lands. Indians used the straight stems for arrows.

Leaves: Opposite, deciduous, oval with pointed tip, coarsely toothed, to 5" long, petioles to 1" long. Hairy, paler below.

Flower: White, on terminal cyme to 5" diameter, small corolla tube, 5 lobes, exerted stamens. April-June

Fruit: Drupe, bluish black, ¼" diameter ripening fall.

***Viburnum dentatum*** Arrow-wood Viburnum  
CAPRIFOLIACEAE Honeysuckle family Triangle, April, 1998 CR Blakley



***Viburnum rufidulum*** Rusty Blackhaw Viburnum, Rusty Nanny-berry, Southern Blackhaw,  
Southern Nanny-berry  
CAPRIFOLIACEAE Honeysuckle family

Peterson & Brown — p98

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1498

Shinners & Mahler — p511

Vines — p957

Cobb — p

General: Shrub or tree to 40', irregularly branched, checkered blackish bark. Wood edges.

Leaves: Opposite, simple, deciduous, oval with pointed tip, to 4" long, 2" wide, reddish petioles to 1" long and grooved. Smooth above, hairy, paler below.

Flower: White, numerous on terminal cyme to 6" diameter, small corolla tube, 5 lobes, exerted stamens.  
March-May.

Fruit: Drupe, bluish black, ¼" diameter ripening fall in drooping clusters.

***Viburnum rufidulum*** Rusty Blackhaw Viburnum  
CAPRIFOLIACEAE Honeysuckle family Triangle, April, 1998 CR Blakley





***Valerianella stenocarpa*** Narrow-cell Corn-Salad, Narrow-fruited Corn-Salad  
VALERIANACEAE Valerian family

Peterson & Brown — p98

Ajilvsgi — p280

Niehaus, Ripper & Savage — p

Tveten & Tveten — p95 (*V. woodsiana*)

Correll & Johnston — p1506

Shinners & Mahler — p1046

Vines — p

Cobb — p

General: Erect annual to 20" tall, forked in upper portion. Angled stems, hairy on angles. Edges.

Leaves: Opposite, sessile, succulent, broadly spatulate, to 2" long, stem leaves toothed.

Flower: White, several on terminal cymes, corolla funnel shaped, 5 lobes, conspicuous above bracts, exerted stamens and pistil. March-May.

Fruit: Narrow capsule, more than twice as long as wide.

***Valerianella stenocarpa*** Narrow-cell Corn-Salad  
VALERIANACEAE Valerian family Big Meadow, May, 1998 CR Blakley



***Ambrosia artemisiifolia*** Ragweed, Common Ragweed, Short Ragweed, Altamisa, Hogbrake, Roman Wormwood

ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p103

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1632

Shinners & Mahler — p309

Vines — p

Cobb — p

General: Erect annual to 3' tall. Waste areas.

Leaves: Opposite below, alternate above, bipinnatifid, to 6" long, 4" wide, petiole to 1 1/2".

Flower: White, male flowers on short stalks, above female flowers.

Fruit: 1/8" long

***Ambrosia artemisiifolia*** Ragweed

ASTERACEAE (COMPOSITAE) Sunflower family NE Fence, September, 1998 CR Blakley



white-115



***Aster ericoides*** Heath Aster, White Prairie Aster, Wreath Aster  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p103

Ajilvsgi — p296

Niehaus, Ripper & Savage — p104 (*Aster sp.*)

Tveten & Tveten — p230 (*A. subulatus*)

Correll & Johnston — p1597

Shinners & Mahler — p318

Vines — p

Cobb — p

General: Erect perennial herb from rhizomes. Many branches, usually arching, with short, head bearing branchlets. Fields.

Leaves: Alternate, sessile. Midstem leaf elliptic to 1" long. Leaves usually lost by flowering.

Flower: White. Small head, radiate. Ray flowers short, 0.2" long. Short phyllaries, curved tips. Late summer, fall.

Fruit: Achene.

***Aster ericoides*** Heath Aster

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 2000 CR Blakley



white-117

***Aster lateriflorus*** California aster, Calico daisy, White Woodland Aster, Side-flower Aster  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p103

Ajilvsgi — p296

Niehaus, Ripper & Savage — p104 (*Aster sp.*)

Tveten & Tveten — p230 (*A. subulatus*)

Correll & Johnston — p1597

Shinners & Mahler — p319

Vines — p

Cobb — p

General: Erect perennial herb from rhizomes. Many branches, usually arching, with short, head bearing branchlets. To 3' tall. moist, sandy fields.

Leaves: Alternate, sessile. Midstem leaf elliptic to 4" long. Leaves at top much reduced.

Flower: White. Small head, radiate. Ray flowers short, 0.2" long. Yellow disk flowers. October-November.

Fruit: Achene.

2X



***Aster lateriflorus*** California aster

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 1998 CR Blakley





***Baccharis halimifolia*** Eastern Baccharis, Consumption-weed, Sea-myrtle, Tree-groundsel, Manglier, Saltbush, Groundsel tree, Silverling  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p103

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1560

Shinners & Mahler — p324

Vines — p

Cobb — p

General: Shrub to 15' tall. Open sandy plains.

Leaves: Alternate, elliptical, to 2" long, 1" wide, prominent mid vein

Flower: White, discoid head with 20 flowers from axils, ¼" high. Fall

Fruit: Achene, 1/16" long.



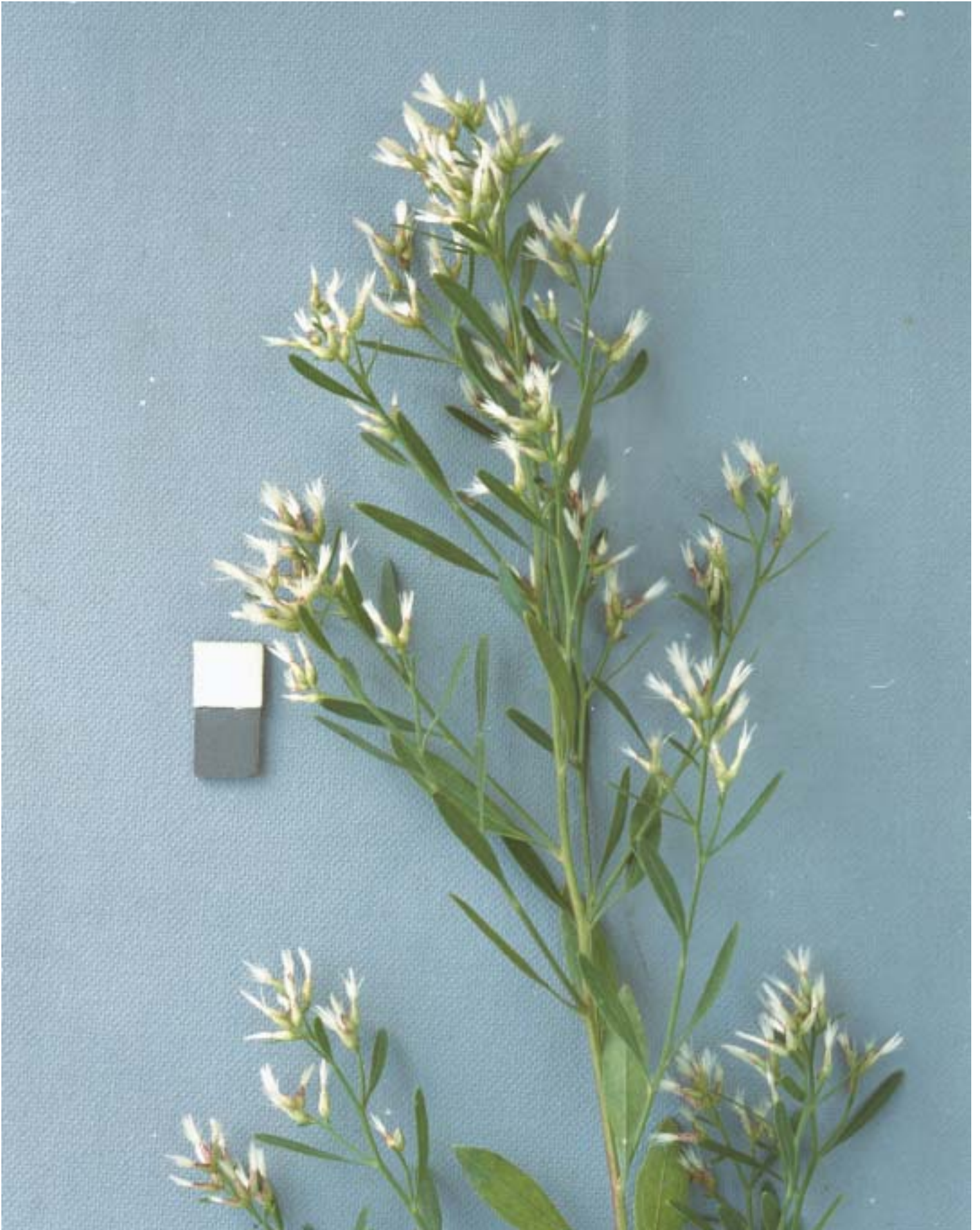
4X



white-120

***Baccharis halimifolia*** Eastern Baccharis

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 1999 CR Blakley



white-121

***Cacalia plantaginea*** Prairie plantain, Indian plantain  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p

Ajilvsgi — p

Niehaus, Ripper & Savage — p110

Tveten & Tveten — p37

Correll & Johnston — p1712

Shinners & Mahler — p314

Vines — p

Cobb — p

General: Stiffly upright, coarse, smooth perennial to 3', stem solitary, grooved, stout. Occurs in various soils, abandoned fields, pastures, woodland openings. Cherokees used as a poultice for cuts, bruises, tumors and infections.

Leaves: 4-8" long, 1-3" wide, prominently 5-7 veined, lower leaves long-stalked, clustered near base, upper leaves alternate, stalkless, smaller.

Flower: Discoid head to ½", in flat topped clusters, only disk flowers creamy white. Blooms in spring and in fall if rains are sufficient.

Fruit: Achene.



***Cacalia plantaginea*** Indian plantain  
ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, May, 1999 CR Blakley





***Conyza canadensis*** Horseweed, Horse-tail Conyza, Canada Fleabane  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p39

Correll & Johnston — p1608

Shinners & Mahler — p341

Vines — p

Cobb — p

General: Erect annual to 6' tall, sparsely branched, stems with spreading hairs. Disturbed areas.

Leaves: Alternate, nearly sessile, narrowly lanceolate to ½" wide, to 4" long.

Flower: White, small radiate head, numerous in terminal panicle, ray flowers inconspicuous. August-  
November.

Fruit: Achene, 2 ribbed.



white-124

4X



***Conyza canadensis*** Horseweed  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, August, 2000 CR Blakley





***Erigeron strigosus*** Hairy Fleabane, White-top  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p105

Ajilvsgi — p299

Niehaus, Ripper & Savage — p102 (*Erigeron sp.*)

Tveten & Tveten — p41 (*E. philadelphicus*)

Correll & Johnston — p1605

Shinners & Mahler — p352

Vines — p

Cobb — p

General: Fibrous rooted, short lived pubescent perennial herb, 12-24" tall. Open, loamy soil.

Leaves: Alternate, essentially sessile. Narrow lanceolate, tapering to long petiole-like base. 3-6" long, 0.3-0.5" wide. Basal leaves usually weakly toothed or notched.

Flower: White, usually sparse head arrangement. 50-100 rays, <0.05" wide, 0.3" long.

Fruit: Achene.

4X



white-126

***Erigeron strigosus*** Hairy Fleabane  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, April, 1998 CR Blakley





***Eupatorium capillifolium*** Dog-fennel, Cypressweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p105

Ajilvsgi — p

Niehaus, Ripper & Savage — p110 (*E. compositifolium*)

Tveten & Tveten — p

Correll & Johnston — p1553

Shinners & Mahler — p353

Vines — p

Cobb — p

General: Erect perennial to 9' tall, threadlike leaves. Sandy soils.

Leaves: Mostly alternate, finely cut, less than 1/32" wide

Flower: White. Discoid in flat topped cluster. September-November.

Fruit: Achene. 1/32" long.

***Eupatorium capillifolium*** Dog-fennel

ASTERACEAE (COMPOSITAE) Sunflower family Cove, November, 1999 CR Blakley



***Eupatorium compositifolium*** Compositeleaf Yankeeweed, Yankee Weed,  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p105

Ajilvsgi — p

Niehaus, Ripper & Savage — p110

Tveten & Tveten — p

Correll & Johnston — p1553

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial to 9' tall. Sandy soils.

Leaves: Mostly alternate, upper leaves finely cut, about 1/16" wide. Lower leaves pinnate.

Flower: White. Discoid in flat topped cluster. September-November.

Fruit: Achene. 1/32" long.



***Eupatorium compositifolium*** Compositeleaf Yankeeweed  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, September, 1998 CR Blakley





***Eupatorium rugosum*** White Nettleleaf, White Snakeroot, Richweed, Fallpoison  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1556

Shinners & Mahler — p354

Vines — p

Cobb — p

General: Erect perennial to 6' tall, numerous branches. Thickets.

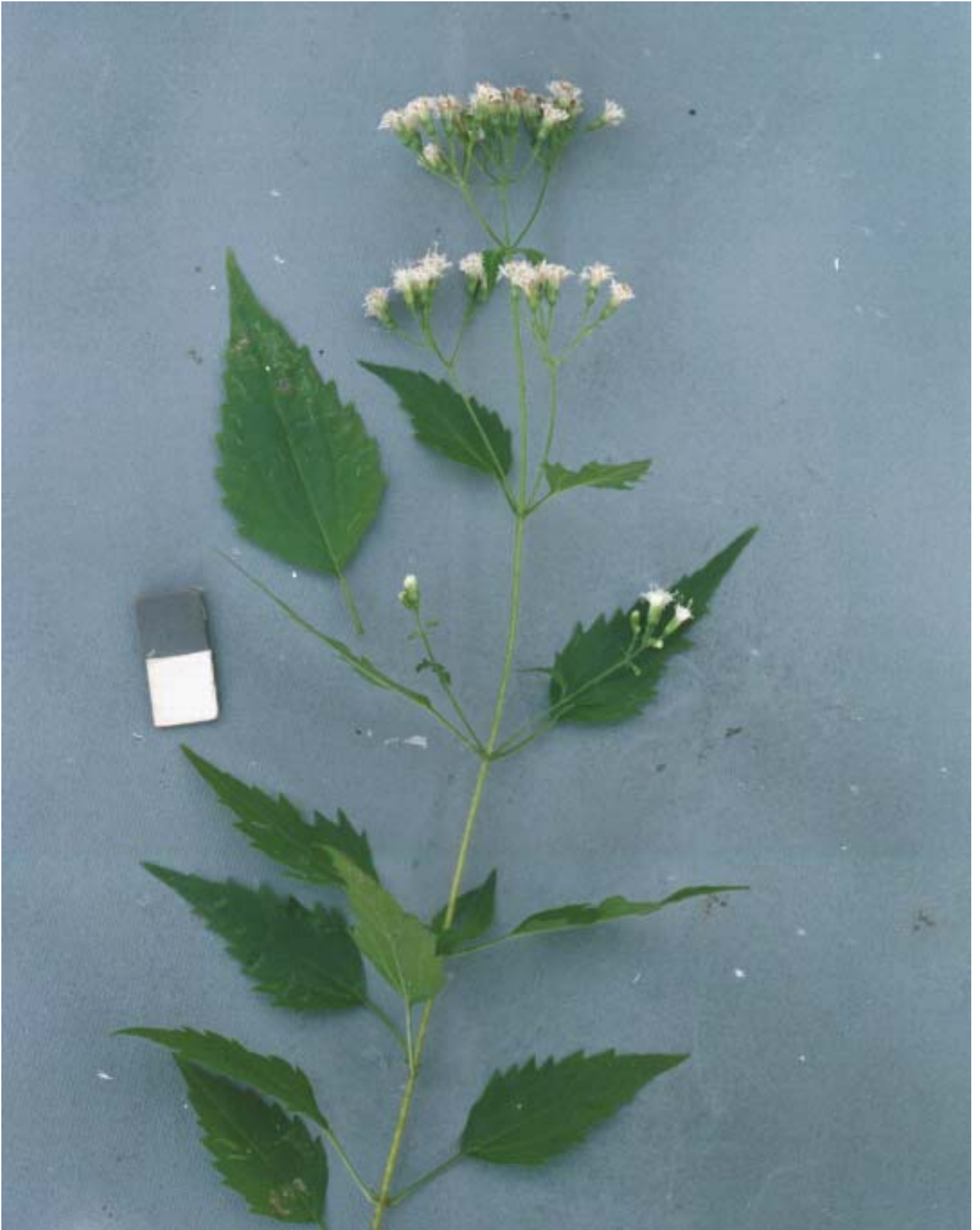
Leaves: Opposite, triangular, to 2" long, sharply toothed, curled hairs on bottom.

Flower: White, discoid, ¼" long, blunt phyllaries, in small rounded clusters at end of branches. October-December.

Fruit: Achene.

***Eupatorium rugosum*** White Nettleleaf

ASTERACEAE (COMPOSITAE) Sunflower family Cove, November, 1999 CR Blakley



***Eupatorium serotinum*** Late Eupatorium, Late Flowering Thoroughwort, Fall Boneset  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p42

Correll & Johnston — p1554

Shinners & Mahler — p354

Vines — p

Cobb — p

General: Erect perennial to 4' tall, forms colonies. Disturbed areas.

Leaves: Mostly opposite, narrowly oval, to 4" long, petioles to 1" long.

Flower: White, discoid, ¼" long, in flat topped cluster at end of branches. August-November.

Fruit: Achene.

4X



white-134

*Eupatorium serotinum* Late Eupatorium  
ASTERACEAE (COMPOSITAE) Sunflower family NE Delta, September, 2000 CR Blakley





***Evax verna*** Terminalflower Evax, Many-stem Evax  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1614

Shinners & Mahler — p356

Vines — p

Cobb — p

General: Erect annual to 4" tall, wooly. Sandy areas.

Leaves: Alternate, crowded at top, to ½" long.

Flower: White, discoid, covered with white wool, heads terminal on branches. Spring

Fruit: Achene, minute.

4X



white-136

***Evax verna*** Terminalflower Evax  
ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, April, 1999 CR Blakley



***Gnaphalium purpureum*** Purple Cudweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p107

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1616

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual to 2' tall, often multistemmed. White wooly. Sandy areas.

Leaves: Alternate, sessile, lanceolate, to 3" long, ½" wide, sticky.

Flower: White, discoid, axillary, sessile. Wooly only at base. Spring.

Fruit: Achene.

***Gnaphalium purpureum*** Purple Cudweed  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, May, 1998 CR Blakley





***Mikania scandens*** Climbing Hempweed, Climbing Boneset, Hemp-vine  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p109

Ajilvsgi — p288

Niehaus, Ripper & Savage — p

Tveten & Tveten — p45

Correll & Johnston — p1551

Shinners & Mahler — p388

Vines — p

Cobb — p

General: Perennial climbing vine, to 12' long. Bottomlands

Leaves: Opposite, broadly lanceolate to 4" long, 3" wide, notched base, petiole to 2" long, wavy margins.

Flower: White, discoid, small cylindrical heads, numerous in terminal cluster, stiffly bristled pappus. June-November.

Fruit: Achene, 5 ribs, resinous, black.

***Mikania scandens*** Climbing Hempweed  
ASTERACEAE (COMPOSITAE) Sunflower family Triangle, September, 2000CR Blakley





# Plants with Yellow flowers



***Sisyrinchium exile*** Smallflower Blue-eye Grass, Yellow Blue-eyed Grass, Fairy Stars  
IRIDACEAE Iris family

Peterson & Brown — p43

Ajilvsgi — p118

Niehaus, Ripper & Savage — p136

Tveten & Tveten — p155

Correll & Johnston — p427

Shinners & Mahler — p1174 (*S. sp.*)

Vines — p

Cobb — p

General: Introduced erect, grasslike annual to 7" tall. Sandy fields.

Leaves: Basal, grasslike, 1/8" wide.

Flower: Yellow, red eye ring, 6 tepals, 1/2" long. April-June.

Fruit: Capsule, 1/8" diameter, black seeds.

4X



yellow-2

***Sisyrinchium exile*** Smallflower Blue-eye Grass  
IRIDACEAE Iris family NE Fence, March, 2002 CR Blakley



***Chenopodium ambrosioides*** Mexican Tea, Wormseed, Epazote, Spanish-tea  
CHENOPODIACEAE Goosefoot family

Peterson & Brown — p50

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p533

Shinners & Mahler — p535

Vines — p

Cobb — p

General: Introduced annual, erect, very aromatic, to 3' tall, ragweed like, sandy woodlands.

Leaves: Alternate, yellowish glands, lanceolate, to 6" long, 3" wide, coarsely toothed.

Flower: Small, on dense spike from axils, usually with small leaves.

Fruit: Black, 1/16" diameter



yellow-4



***Chenopodium ambrosioides*** Mexican Tea  
CHENOPODIACEAE Goosefoot family King's Hill, June, 2000 CR Blakley





***Ranunculus fascicularis*** Early Buttercup, Prairie Buttercup, Tufted Buttercup  
RANUNCULACEAE Buttercup family

Peterson & Brown — p52

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p647

Shinners & Mahler — p928

Vines — p

Cobb — p

General: Perennial herb, erect or spreading, appressed hairs on stems, in prairie soils.

Leaves: Basal, compound, petioles to 4" long, deeply cut, longer than broad.

Flower: Yellow, ½" diameter, 3 to 5 petals. Blooms Feb. to May.

Fruit: Ten to thirty achenes, 1/8" long, on ½" diameter round head.

4X



yellow-6

***Ranunculus fascicularis*** Early Buttercup  
RANUNCULACEAE Buttercup family NE Fence, April, 1999 CR Blakley



***Corydalis micrantha*** Southern Corydalis  
FUMARIACEAE Fumitory family

Peterson & Brown — p55

Ajilvsgi — p146

Niehaus, Ripper & Savage — p

Tveten & Tveten — p154

Correll & Johnston — p669

Shinners & Mahler — p722

Vines — p

Cobb — p

General: Erect annual, to 2' tall, light green, sandy fields.

Leaves: Alternate, compound, pinnate, 5-7 segments, each oval and cut.

Flower: Light yellow, spurred, 4 petals, on raceme longer than leaves. February to April.

Fruit: Capsule, to 1 ½" long, minute seeds.

4X



yellow-8



***Corydalis micrantha*** Southern Corydalis  
FUMARIACEAE Fumitory family King's Hill, March, 1998 CR Blakley



yellow-9



***Hamamelis virginiana*** Witch Hazel, Virginia Witch Hazel, Common Witch Hazel  
HAMAMELIDACEAE Witch Hazel family

Peterson & Brown — p56

Ajilvsgi — p152

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p726

Shinners & Mahler — p

Vines — p324

Cobb — p

General: Shrub or small tree to 30', brown scaly bark. Woods.

Leaves: Alternate, deciduous, wavy toothed, oval, pointed, to 6" long, 3" wide, hairy below.

Flower: Yellow, clustered on short peduncle at axils. 4 petals. September to December.

Fruit: Capsule, 2 black seeds.

2X



yellow-10

*Hamamelis virginiana* Witch Hazel

HAMAMELIDACEAE Witch Hazel family Enchanted Isle, December, 1999 CR Blakley



yellow-11

***Agrimonia rostellata*** Agrimony, Woodland Groovebur, Woodland Agrimony  
ROSACEAE, Rose family

Peterson & Brown — p57

Ajilvsgi — p155 (*A. microcarpa*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p752

Shinners & Mahler — p938

Vines — p

Cobb — p

General: Erect perennial, usually solitary stems, or 2 to 3, to 3' high. Moist woods.

Leaves: Compound, 5 to 9 leaflets, coarsely toothed, oval, resin dots on underside.

Flower: Yellow, 5 petals, ¼" long, 5-15 stamens, on spikelike raceme. July-September.

Fruit: achene

4 X Resin dots

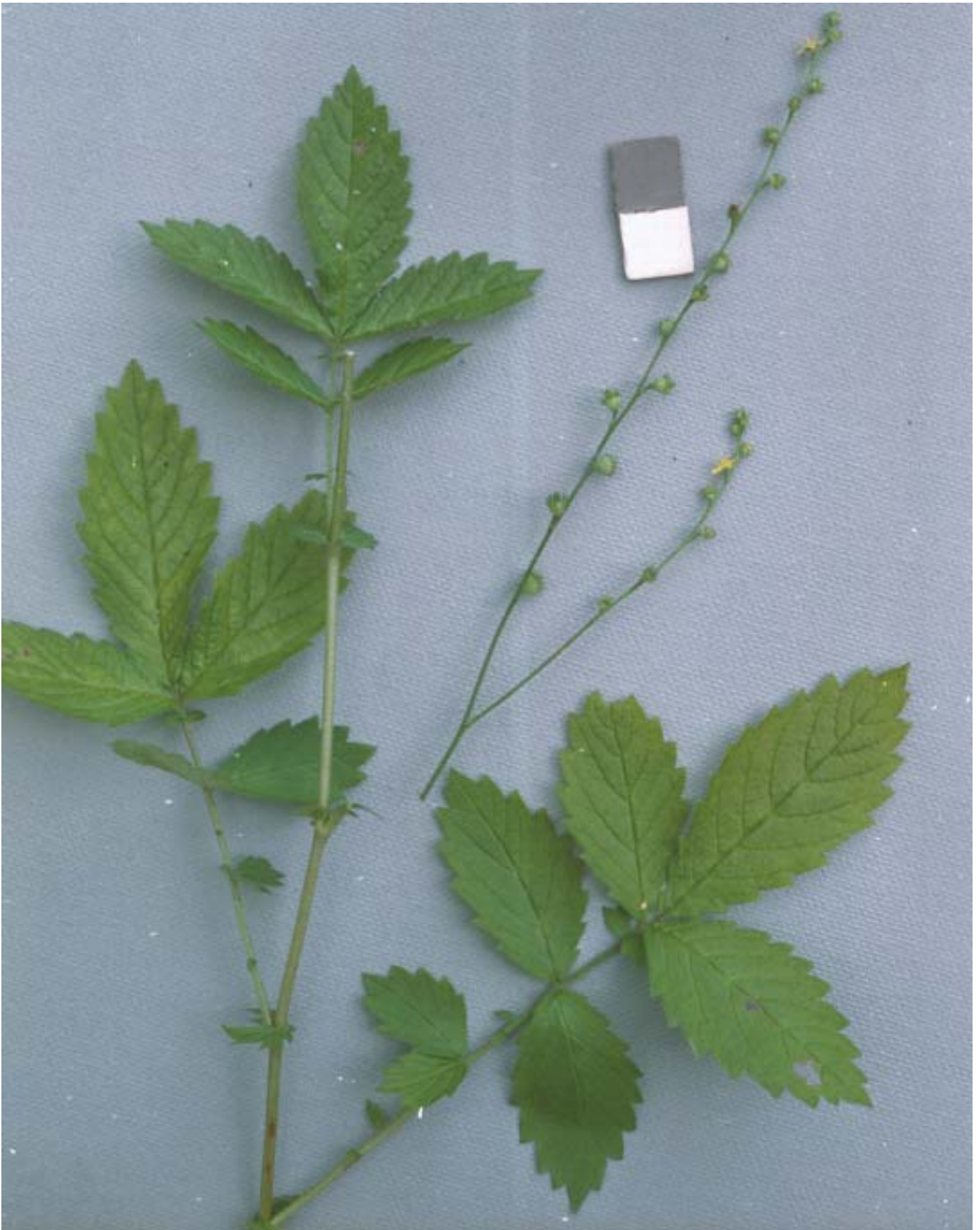
4X



yellow-12



***Agrimonia rostellata*** Agrimony  
ROSACEAE, Rose family Triangle, August, 2000 CR Blakley





***Duchesnea indica*** Indian Mock-Strawberry, Yellow-strawberry, Indian Strawberry  
ROSACEAE Rose family

Peterson & Brown — p58

Ajilvsgi — p154

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p744

Shinners & Mahler — p944

Vines — p

Cobb — p

General: Introduced, low perennial herb colonizing from stolons. Low woods.

Leaves: Long petioled from stolons, compound, 3 toothed, oval, leaflets to 1 ½" long.

Flower: Yellow, solitary on long peduncle, 5 petals. March-August.

Fruit: Numerous achenes in red receptacle, edible, but dry and tasteless.

***Duchesnea indica*** Indian Mock-Strawberry  
ROSACEAE Rose family March, 2001 CR Blakley



***Baptisia sphaerocarpa*** Roundfruited Baptisia, Wild indigo, Bush pea  
FABACEAE – Leguminosae Pea family

Peterson & Brown — p62

Ajilvsgi — p161

Niehaus, Ripper & Savage — p194

Tveten & Tveten — p145

Correll & Johnston — p800

Shinners & Mahler — p638

Vines — p

Cobb — p

General: A green bushy plant to 3' in height. When life cycle completed plant turns black as if burned but often persists in place. Loamy, sandy or silty soils, prairies, pastures, edge of woods. Genus name is Greek for "a dipping" as other plants of this genus produced dyes. American Indians used various parts of plants for medicinal purposes but presence of toxic alkaloids should make us regard whole plant as poisonous.

Leaves: - Compound dark-blue/green, 3 ovate leaflets on lower plant becoming smaller, only one or two on upper stems. No leaves on bloom stalk.

Flower: Bright yellow up to 1" long on erect, elongated raceme. Little or no flower stem (peduncle) Blooms Apr.-May.

Fruit: Legume, ¾" long

***Baptisia sphaerocarpa*** Roundfruited Baptisia  
FABACEAE – Leguminosae Pea family Triangle, April, 1999 CR Blakley





***Cassia fasciculata*** Showy Senna, Partridge pea  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p62

Ajilvsgi — p159

Niehaus, Ripper & Savage — p190

Tveten & Tveten — p

Correll & Johnston — p790

Shinners & Mahler — p642

Vines — p

Cobb — p

General: Erect glabrate annual, 1-5' tall, usually few branched in dense stands, else shorter and branched. Sandy fields and woods.

Leaves: Alternate, compound, sensitive to touch, 1-2" long. 8-15 leaflet opposite pairs, linear, 0.5-0.8" long, 0.1-0.2" wide.

Flower: Yellow, 2-7 in supra-axillary raceme. One flower opens at a time, wilting by midday. Pedicels 0.5-1" long. 5 petals. 4 upper have basal red spot. Bottom larger and incurved, 0.3-0.7" long. 10 stamens, usually dark anthers. July-October

Fruit: Linear, sickle shaped pod, 2-3" long. Seeds, 10-20, flattened, oval, dark brown, 0.1-0.2" long.

4X



yellow-18

***Cassia fasciculata*** Showy Senna, Partridge pea  
FABACEAE - LEGUMINOSAE Pea family Cullinan Meadow, June, 2000 CR Blakley



***Crotalaria sagittalis*** Rattlepod, Arrow Crotalaria  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p63

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p801

Shinners & Mahler — p643

Vines — p

Cobb — p

General: Erect short-lived perennial, 4-20" tall, ascending hairy stems, hairs to 1/8" long. Sandy areas.

Leaves: Simple, narrow elliptical, to 3" long, 1/2" wide.

Flower: Yellow, 2-4 on raceme

Fruit: Oblong legume, 1-2" long, 1/2" wide. Seeds rattle when dry.



***Crotalaria sagittalis*** Rattlepod

FABACEAE - LEGUMINOSAE Pea family Martin Flat, June, 1998 CR Blakley





***Oxalis dillenii*** Yellow wood-sorrel, Dillen's oxalis  
OXALIDACEAE Wood-sorrel family

Peterson & Brown — p66

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p166

Correll & Johnston — p896

Shinners & Mahler — p

Vines — p

Cobb — p

General: Perennial pubescent herb, erect or mounding, to 15". Cloverlike. Sandy areas.

Leaves: Alternate, palmately compound. 3 leaflets, 0.5" wide, notched, bright green, hairy. 2-3" long petioles.

Flower: Yellow, 5 petals, 0.5 diameter, close at night. February-May

Fruit: Capsule. 0.5" long. Red seeds.

4X



yellow-22

***Oxalis dillenii*** Yellow wood-sorrel  
OXALIDACEAE Wood-sorrel family CR Blakley



***Oxalis priceae*** Big flower wood-sorrel, Yellow wood-sorrel  
OXALIDACEAE Wood-sorrel family

Peterson & Brown — p66

Ajilvsgi — p180

Niehaus, Ripper & Savage — p

Tveten & Tveten — p166 (*O. dillenii*)

Correll & Johnston — p896

Shinners & Mahler — p

Vines — p

Cobb — p

General: Perennial pubescent herb, usually erect, to 16" high. Slender, hairy, rhizome. Open pinelands.

Leaves: Alternate, palmately compound. 3 leaflets, 0.5" wide, notched, bright green, hairy. 2-3" long petioles.

Flower: Yellow, showy, 2-7 on conspicuous, 1" long pedicels. Long axillary peduncle of umbel overtops the stem. 5 petals, 0.5-0.8" long. 10 stamens, 5 styles. Close at night. March-May

Fruit: Capsule. 0.5" long. Red seeds.



*Oxalis priceae* Big flower wood-sorrel  
OXALIDACEAE Wood-sorrel family Cove, March, 1998 CR Blakley





***Sida rhombifolia*** Arrowleaf Sida, Axocatzin  
MALVACEAE Mallow family

Peterson & Brown — p73

Ajilvsgi — p195

Niehaus, Ripper & Savage — p

Tveten & Tveten — p161

Correll & Johnston — p1053

Shinners & Mahler — p

Vines — p

Cobb — p

General: Introduced, erect, shrubby annual, to 4' tall. Low open woods.

Leaves: Alternate, simple, dark green upper surface, paler lower surface, broadly spatulate, to 3" long, 1 ½" wide, sharply toothed.

Flower: Yellow, to orange, axillary, 5 petals, short filament column. All year.

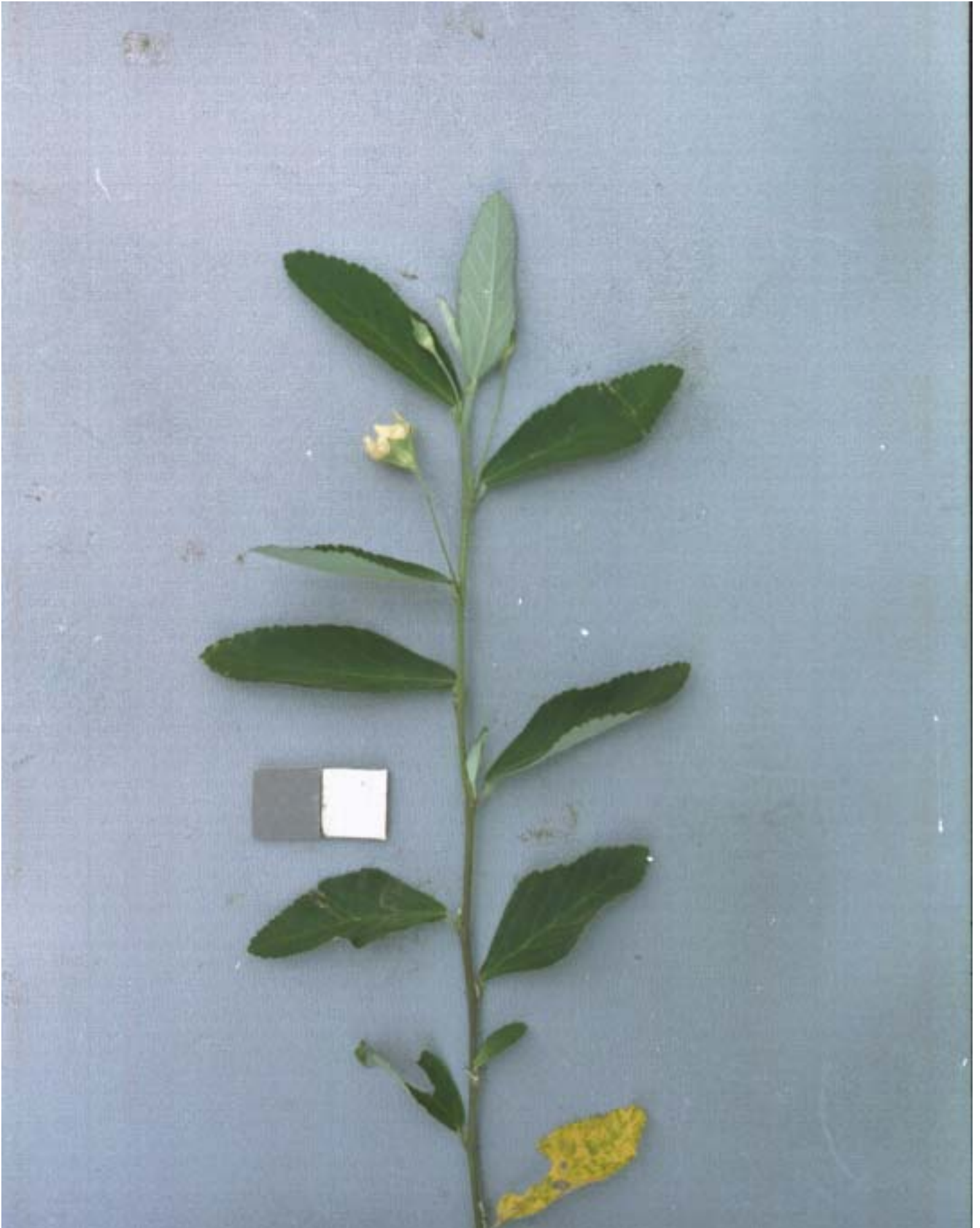
Fruit: 10 carpels, 1 seed per carpel.

4X



yellow-26

***Sida rhombifolia*** Arrowleaf Sida  
MALVACEAE Mallow family Cove, July, 1998 CR Blakley



***Ascyrum hypericoides*** St. Andrew's Cross  
CLUSIACEAE or HYPERICACEAE St. John's-Wort family

Peterson & Brown — p74

Ajilvsgi — p197

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1060

Shinners & Mahler — p547 (*Hypericum hypericoides*)

Vines — p

Cobb — p

General: Erect, evergreen shrub, reddish-brown stems, to 3' tall. Sandy soils.

Leaves: Opposite, simple, sessile, variable, to 1" long, ¼" wide, rolled margins.

Flower: Yellow, usually solitary, axillary, 4 petals, ½" long. May-November.

Fruit: Capsule, numerous black seeds.

4X



yellow-28



***Ascyrum hypericoides*** St. Andrew's Cross

CLUSIACEAE or HYPERICACEAE St. John's-Wort family Martin Flat, August, 1999 CR Blakley





***Helianthemum carolinianum*** Rock-rose  
CISTACEAE Rockrose family

Peterson & Brown — p75

Ajilvsgi — p199

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1071

Shinners & Mahler — p

Vines — p

Cobb — p

General: Perennial herb, erect stems, to 15" high. Dense, 0.1" long hairs on lower parts. Sandy pinelands.

Leaves: Alternate, elliptical, short petioles. Rosette basal leaves 0.5-2" long. Few stem leaves.

Flower: Yellow, few, large for size of plant. On coiled cyme. 5 petals, 0.8" long, not always present. Numerous stamens. Last one day or less. March-May.

Fruit: Capsule, 0.5" long. 100 or more red seeds.

2X



yellow-30

***Helianthemum carolinianum*** Rock-rose  
CISTACEAE Rockrose family Martin flat, March, 2001 CR Blakley



***Passiflora lutea*** Yellow Passion-flower  
PASSIFLORACEAE Passion-flower family

Peterson & Brown — p77

Ajilvsgi — p204

Niehaus, Ripper & Savage — p186

Tveten & Tveten — p

Correll & Johnston — p1081

Shinners & Mahler — p878

Vines — p

Cobb — p

General: Slender, climbing perennial vine to 10' long. Low moist woods.

Leaves: Alternate, 3 lobes, to 3" long, 4" wide, 2" petiole.

Flower: Greenish yellow, 1" diameter, 5 united sepals, 5 threadlike petals, ¼" long, numerous threadlike filaments, 5 stamens fused around pistil.

Fruit: Berry, black, ½" diameter

4X



yellow-32



***Passiflora lutea*** Yellow Passion-flower  
PASSIFLORACEAE Passion-flower family Triangle, August, 2002 CR Blakley





***Opuntia compressa*** Eastern prickly pear, Low prickly pear, Smooth prickly pear  
CACTACEAE Cactus Family

Peterson & Brown — p77

Ajilvsgi — p205

Niehaus, Ripper & Savage — p132

Tveten & Tveten — p

Correll & Johnston — p1092

Shinners & Mahler — p491

Vines — p

Cobb — p

General: Low growing, to 1 ft. high, from fibrous root. Stems of fleshy pads, ovate 1-6" long, 1-5" wide, dark green to pale or yellowish green. Spineless or with spines on less than upper half of each pad with 1-5 spines. There seem to be at least 8 varieties found in Texas, with ranges of some overlapping. Sandy fields

Leaves: Very small, usually not present on mature plants.

Flower: 2-3 " in diameter, pale yellow or orange-yellow, petals many. Yellow with red centers sometimes. April-June.

Fruit: Fleshy fruits, elongated base, deeply pitted tip (apex). Many seeds less than 1/4" diameter.

***Opuntia compressa*** Eastern prickly pear  
CACTACEAE Cactus Family Martin Flat, May, 1999 CR Blakley



***Oenothera laciniata*** Cutleaf Evening-Primrose, Downy Evening-Primrose, Sinuate-leaf  
Evening-Primrose  
ONAGRACEAE Evening-primrose family

Peterson & Brown — p78

Ajilvsgi — p210

Niehaus, Ripper & Savage — p154

Tveten & Tveten — p165

Correll & Johnston — p1131

Shinners & Mahler — p864

Vines — p

Cobb — p

General: Annual or short-lived perennial herb, erect or sprawling, often branched. Sandy areas.

Leaves: Simple, alternate, sessile, to 2" long, lobed.

Flower: Light Yellow, solitary, axillary, 4 petals to 1" long. March-November.

Fruit: Capsule, to 1 ½" long, many seeds.

***Oenothera laciniata*** Cutleaf Evening-Primrose  
ONAGRACEAE Evening-primrose family King's Hill, March, 2000 CR Blakley





***Ludwigia octovalvis*** Narrow Leaf Water Primrose, Shrubby Water Primrose  
ONAGRACEAE Evening-primrose family

Peterson & Brown — p(addendum)

Ajilvsgi — p211

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1133

Shinners & Mahler — p860

Vines — p

Cobb — p

General: Erect annual to 3' tall, usually branched, stiff hairs. Wet places.

Leaves: Alternate, short petioled, lanceolate, 1-6" long, 1/8-1 1/2" wide.

Flower: Yellow, solitary, axillary, 4 petals, 1 1/2" diameter. July-October

Fruit: Capsule, cylindrical to 2" long, many seeds

4X



yellow-38

***Ludwigia octovalvis*** Narrow Leaf Water Primrose  
ONAGRACEAE Evening-primrose family NE Delta, August, 2000 CR Blakley



***Ludwigia leptocarpa*** Angle-stem Water Primrose  
ONAGRACEAE Evening-primrose family

Peterson & Brown — p(addendum)

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1134

Shinners & Mahler — p860

Vines — p

Cobb — p

General: Erect perennial to 5' tall, branched, hairy. Wet places.

Leaves: Alternate, broadly lanceolate, to 7" long, 1 ½" wide, petioles to 1" long.

Flower: Yellow, solitary, axillary, 5 sepals, 4 petals, 1" diameter. August-October

Fruit: Capsule, cylindrical to 3" long, many seeds

4X



yellow-40



***Ludwigia leptocarpa*** Angle-stem Water Primrose  
ONAGRACEAE Evening-primrose family NE Delta, August, 2000 CR Blakley





***Gelsemium sempervirens*** Carolina Jessamine  
LOGANIACEAE Logania family

Peterson & Brown — p84

Ajilvsgi — p223

Niehaus, Ripper & Savage — p

Tveten & Tveten — p159

Correll & Johnston — p1201

Shinners & Mahler — p798

Vines — p871

Cobb — p

General: Evergreen vine, woody, reddish-brown twigs. Moist sand.

Leaves: Opposite, short petioled, widely separated on stem, oval, to 3" long, 1" wide, shiny green.

Flower: Yellow, trumpet shaped, to 1 ½" long, highly aromatic. February-April.

Fruit: Capsule, brown, ¾" long, many seeds.

***Gelsemium sempervirens*** Carolina Jessamine  
LOGANIACEAE Logania family Dillo Wallow, February, 2000 CR Blakley



***Monarda punctata*** Spotted Horse-mint, Spotted beebalm  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p90

Ajilvsgi — p257

Niehaus, Ripper & Savage — p

Tveten & Tveten — p156

Correll & Johnston — p1374

Shinners & Mahler — p766

Vines — p

Cobb — p

General: Annual or biennial Herb to 2.5'. Square stems. Usually not branched except near flower head. Sandy loam.

Leaves: Opposite. Lanceolate. 1-3" long, 0.5" wide. Usually toothed.

Flower: White or Pink. 0.8" long in pagoda like whorls. Prominent 0.3" long bristles on calyx. Lower lip of corolla squared-off. Flower leaves yellow or pink. April-October

Fruit: Nutlet. 1 seed per nutlet.

4X



yellow-44



***Monarda punctata*** Spotted Horse-mint  
LAMIACEAE (LABIATAE) Mint family King's Hill, April, 1998 CR Blakley





***Mecardonia vandellioides*** Yellowflower Mecardonia, Prostrate mecardonia, Prostrate water hyssop, Stalked water hyssop  
SCROPHULARIACEAE Figwort Family

Peterson & Brown — p93

Ajilvsgi — p261

Niehaus, Ripper & Savage — p

Tveten & Tveten — p171

Correll & Johnston — p1413

Shinners & Mahler — p1003

Vines — p

Cobb — p

General: Erect perennial to 16" tall, usually branched from base. Moist prairies.

Leaves: Opposite, sessile, spatulate, to 1" long, toothed tip, gland dotted.

Flower: Yellow, 5 parted, 2 upper lips with dark veins, bearded, 3 lower lips spreading, solitary on long axillary pedicel.

Fruit: Capsule, many seeds.

2X



yellow-46

***Mecardonia vandellioides*** Yellowflower Mecardonia  
SCROPHULARIACEAE Figwort Family Triangle, June, 1998 CR Blakley



***Chrysopsis pilosa*** Soft Golden-aster, Camphor weed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p(addendum)

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1567 (*Heterotheca pilosa*)

Shinners & Mahler — p334

Vines — p

Cobb — p

General: Erect hairy annual to 3' high, single stem, upper sometimes branched. Sandy open areas..

Leaves: Alternate, crowded, short petioled, lower oblong, to 3" long, upper to 1" long.

Flower: Yellow, radiate, showy, terminal on separate branches, 1" diameter, ½" high, peduncles not glandular. May-October.

Fruit: Achene, conspicuously 10 ribbed.

***Chrysopsis pilosa*** Soft Golden-aster

ASTERACEAE (COMPOSITAE) Sunflower family South Fence, September, 2000 CR Blakley



yellow-49



***Bidens bipinnata*** Beggar-ticks, Spanish-needles  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p312 (*B. aristosa*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p34 (*B. alba*)

Correll & Johnston — p1663

Shinners & Mahler — p326

Vines — p

Cobb — p

General: Erect annual to 5' tall, branched. Moist fields.

Leaves: Opposite, petioles to 2" long, 2- or 3-pinnate, triangular segments.

Flower: Yellow, radiate, on 6" peduncle, rays inconspicuous, head ¼" high, ¼" wide. Summer

Fruit: Achene, black, linear ½" long, 1/16" wide, barbed awns

***Bidens bipinnata*** Beggar-ticks

ASTERACEAE (COMPOSITAE) Sunflower family Cove, August, 2001 CR Blakley



***Cirsium horridulum*** Bull Thistle, Yellow Thistle, Horrid Thistle  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p320

Niehaus, Ripper & Savage — p218

Tveten & Tveten — p104

Correll & Johnston — p1717

Shinners & Mahler — p340

Vines — p

Cobb — p

General: Erect annual or biennial to 5' tall, solitary thick stem. Open sandy areas.

Leaves: Alternate, mostly basal, sessile, spiny, to 15" long, 1 ½" wide.

Flower: Usually yellowish, but often pink. Showy discoid head to 3" diameter, wider than tall, in terminal cluster. March-May.

Fruit: Achene

***Cirsium horridulum*** Bull Thistle

ASTERACEAE (COMPOSITAE) Sunflower family Triangle, April, 1998CR Blakley





***Croptilon divaricatum*** Scratch Daisy, Slender Goldenweed, Spreading Golden-aster  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p290

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1562

Shinners & Mahler — p344

Vines — p

Cobb — p

General: Erect annual to 2' tall. Disturbed areas.

Leaves: Alternate, sessile, mostly basal, decreasing up stem, narrowly oblong to 6" long, 1" wide.

Flower: Yellow, radiate, 1/4" diameter, on peduncle with stalked glandular hairs. Fall

Fruit: Achene, not ribbed.

4X



yellow-54

***Croptilon divaricatum*** Scratch Daisy  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, July, 2001 CR Blakley



***Coreopsis basalis*** Goldenmane  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p(addendum)

Ajilvsgi — p

Niehaus, Ripper & Savage — p204

Tveten & Tveten — p

Correll & Johnston — p1660

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual, branched, to 18" high. Sandy soils

Leaves: Opposite, with petioles, to 2" long, pinnately compound, 1-3 cut, to 4" long. Some midstem leaflets have spur.

Flower: Yellow, radiate, to 2" diameter, peduncles to 6" long. Rays to 1" long, 3 lobes. February-May.

Fruit: Achene. Wingless.

***Coreopsis basalis*** Goldenmane

ASTERACEAE (COMPOSITAE) Sunflower family where photographed, month, 1997 CR Blakley



yellow-57



***Gaillardia pulchella*** Indian Blanket, Firewheel, Rosering Gaillardia  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p314

Niehaus, Ripper & Savage — p330

Tveten & Tveten — p178

Correll & Johnston — p1672

Shinners & Mahler — p358

Vines — p

Cobb — p

General: Annual, pubescent herb, 1-2' tall, usually branched. Becomes woody. Sandy fields.

Leaves: Alternate, sessile, clasping, or tapering to short petiole. Oblong, both surfaces hairy, 2-4" long, variable margins.

Flower: Yellow tipped red ray flowers, 3 toothed, 0.5 to 1" long. Hemispherical receptacle, 0.5-1" diameter. Purple-red disk flowers. Terminal on 2-8" long peduncle. June-August.

Fruit: Achene

***Gaillardia pulchella*** Indian Blanket  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, April, 1998 CR Blakley



***Helenium amarum*** Bitter sneezeweed, Bitterweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p107

Ajilvsgi — p315

Niehaus, Ripper & Savage — p

Tveten & Tveten — p111

Correll & Johnston — p1676

Shinners & Mahler — p366

Vines — p

Cobb — p

General: Erect annual to 20" tall, aromatic, solitary stem. Sandy areas.

Leaves: Alternate, sessile, spatulate, to 3" long. Lower leaves usually drop before flowering.

Flower: Yellow, radiate, numerous on showy terminal panicle. Receptacle conspicuously domed. May-December.

Fruit: Achene, brown, ribbed.



***Helenium amarum*** Bitter sneezeweed  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, June, 1998 CR Blakley



yellow-61



***Helianthus debilis*** Weakstem Sunflower, Cucumber-leaf Sunflower  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p107

Ajilvsgi — p309

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1652

Shinners & Mahler — p369

Vines — p

Cobb — p

General: Erect annual to 6" tall, single stem, much branched, rough. Sandy areas.

Leaves: Alternate, petiole to 4" long, broadly lanceolate, to 3" long, 2" wide, notched base, sharply toothed.

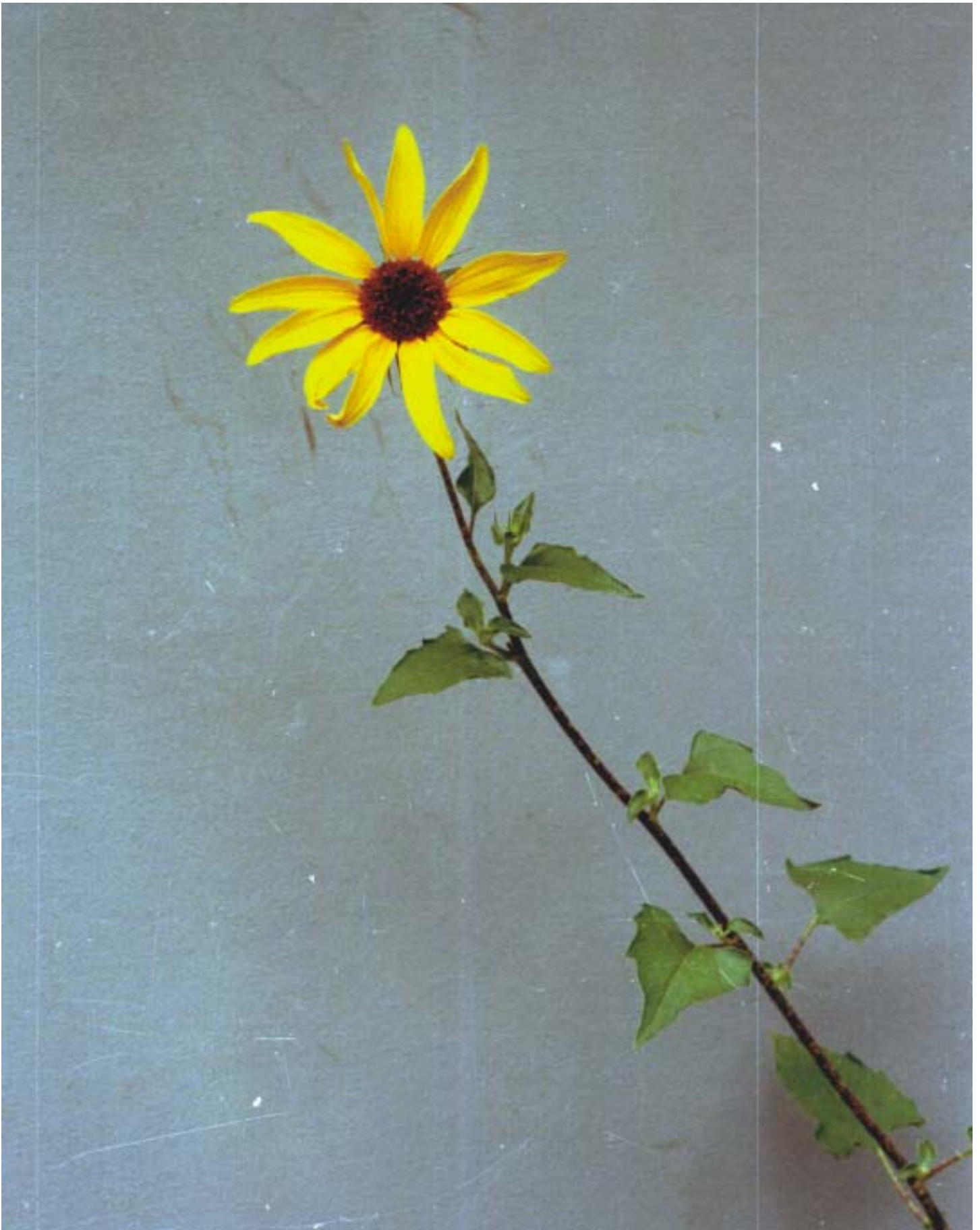
Flower: Yellow, radiate, on showy terminal panicle, ray flowers to 1" long. Disk flowers reddish. June-October.

Fruit: Achene, flat, hairy.



yellow-62

***Helianthus debilis*** Weakstem Sunflower  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, June, 1998 CR Blakley



***Heterotheca latifolia*** Broadleaf Gum-plant, Golden-aster, Camphorweed, Gumweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p107

Ajilvsgi — p290

Niehaus, Ripper & Savage — p

Tveten & Tveten — p118 (*Heterotheca. subaxillaris*)

Correll & Johnston — p1566

Shinners & Mahler — p372 (*H. subaxillaris*)

Vines — p

Cobb — p

General: Erect aromatic annual to 6' tall, sticky, solitary stem, much branched. Sandy areas.

Leaves: Alternate, lower leaves drop early, upper leaves sessile, densely hairy, to 1" long, 3/4" wide.

Flower: Yellow, radiate, mostly flat receptacle, in small head, on terminal panicle. May-December.

Fruit: Achene.



***Heterotheca latifolia*** Broadleaf Gum-plant  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, August, 1998 CR Blakley



yellow-65



***Hieracium gronovii*** Longbeard Hawkweed, Gronovius' Hawkweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p107

Ajilvsgi — p

Niehaus, Ripper & Savage — p220 (*H. fendleri*)

Tveten & Tveten — p

Correll & Johnston — p1734

Shinners & Mahler — p374

Vines — p

Cobb — p

General: Erect perennial to 4' tall, leaves only in lower portion. Sandy open forests.

Leaves: Alternate, sessile, broadly elliptic, hairy.

Flower: Yellow, ligulate, in small, 1/2" long head on hairless panicle. Spring and fall.

Fruit: Achene, 1/8" long

4X



yellow-66

*Hieracium gronovii* Longbeard Hawkweed  
ASTERACEAE (COMPOSITAE) Sunflower family Cascades, August, 2002 CR Blakley



***Krigia oppositifolia*** Weedy Dwarf-dandelion  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p108

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1724

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual, to 16" high, freely branched.

Leaves: Lower leaves alternate, sessile, to 2" long, upper leaves mostly opposite, smaller, elliptic, unequal in size.

Flower: Yellow, ligulate, receptacle flat, rays 1/8" long. Spring.

Fruit: Dark red-brown.

4X



yellow-68

***Krigia oppositifolia*** Weedy Dwarf-dandelion  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, May, 1998 CR Blakley





***Lactuca canadensis*** Canada-lettuce, Wild Lettuce  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p108

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1732

Shinners & Mahler — p381

Vines — p

Cobb — p

General: Erect biennial to 6' tall, much branched in upper portion. Sandy areas.

Leaves: Lower leaves pinnately lobed, upper leaves narrowly oval

Flower: Yellow, ligulate, in terminal panicle

Fruit: Achene, ¼" long.

4X



yellow-70

***Lactuca canadensis*** Canada-lettuce  
ASTERACEAE (COMPOSITAE) Sunflower family Martin Flat, July, 1999 CR Blakley



yellow-71

***Dracopis amplexicaulis*** Clasping Cone-flower, Clasping-leaf Cone-flower  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p(addendum)

Ajilvsgi — p307

Niehaus, Ripper & Savage — p

Tveten & Tveten — p108

Correll & Johnston — p1643

Shinners & Mahler — p346

Vines — p

Cobb — p

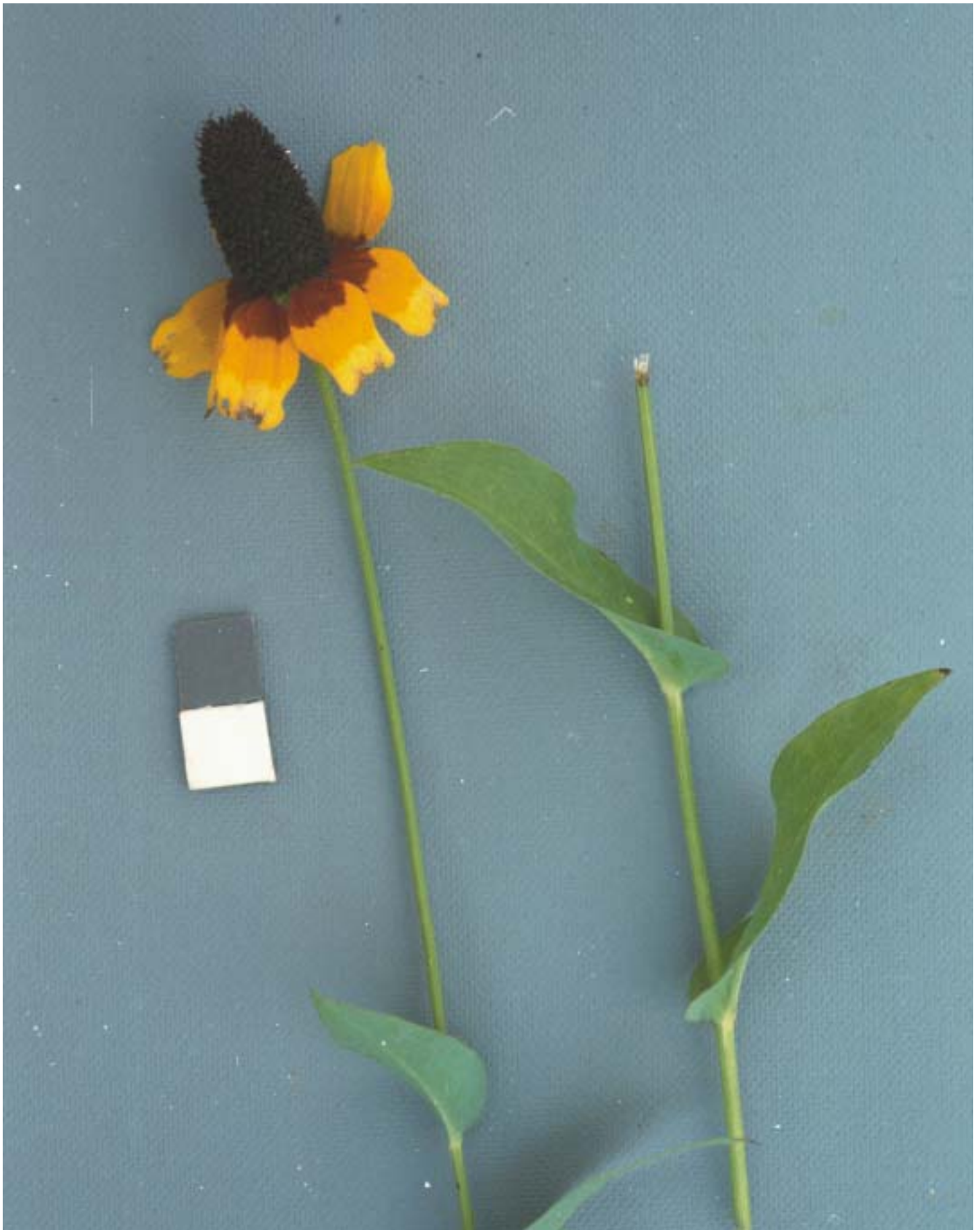
General: Erect annual to 2' tall, single stem, branched above. Moist fields.

Leaves: Alternate, sessile, clasping, broadly lanceolate.

Flower: Yellow, radiate, terminal on long peduncle, 2" diameter, sometimes red at base. Disk flowers brown, on cylindrical receptacle. June-August.

Fruit: Achene, small cylinder.

***Dracopis amplexicaulis*** Clasping Cone-flower  
ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, May, 2000 CR Blakley





***Rudbeckia hirta*** Brown-eyed Susan, Black-eyed Susan  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p110

Ajilvsgi — p305

Niehaus, Ripper & Savage — p200

Tveten & Tveten — p126

Correll & Johnston — p1642

Shinners & Mahler — p402

Vines — p

Cobb — p

General: Erect roughly pubescent annual or short lived perennial, 1-3' tall. Often branched above the middle. If not branched, peduncle not more than one-third height of plant (var. *pulcherrima*) or more than one-half height of plant (var. *angustifolia*). Sandy, wooded areas.

Leaves: Alternate, nearly sessile, obscurely toothed, roughly pubescent, variably shaped, but always longer than wide. 2-7" long, 0.4-3" wide.

Flower: Yellow ray flowers to 2" long, vaguely 3 toothed. May have basal brown spot. Disk flowers dark brown. Conical receptacle. May-September.

Fruit: Achene

***Rudbeckia hirta*** Brown-eyed Susan  
ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, April, 1998 CR Blakley



***Rudbeckia nitida v. texana*** Shiny Coneflower  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p110

Ajilvsgi — p307

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1643

Shinners & Mahler — p

Vines — p

Cobb — p

General: Upright smooth perennial 1-4' tall. Unbranched to few branched at top. Prairies, sandy to clay.

Leaves: Basal rosette of large, lustrous leaves. Stem leaves much smaller, sparse; alternate.

Flower: Flower heads of yellow rays and brown disks clustered around high rising cone. Apr.-Oct

Fruit: Achene



yellow-76



***Rudbeckia nitida v. texana*** Shiny Coneflower  
ASTERACEAE (COMPOSITAE) Sunflower family where photographed, month, 1997 CR Blakley



yellow-77



***Senecio sp.*** Cutleaf Groundsel, Butterweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p110

Ajilvsgi — p319

Niehaus, Ripper & Savage — p214

Tveten & Tveten — p127

Correll & Johnston — p1710

Shinners & Mahler — p

Vines — p

Cobb — p

General: Annual herb. To 3' tall. sandy fields.

Leaves: Alternate, deeply lobed

Flower: Yellow, radiate. Spring

Fruit: Achene

***Senecio sp.*** Cutleaf Groundsel

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, April, 1998 CR Blakley



yellow-79

***Silphium gracile*** Rosinweed, Slender Rosinweed, Slender Silphium, Simpson  
Rosinweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p110

Ajilvsgi — p302

Niehaus, Ripper & Savage — p

Tveten & Tveten — p129

Correll & Johnston — p1623

Shinners & Mahler — p404

Vines — p

Cobb — p

General: Tall, hairy plant to 5' resembles sunflower but center (disk flowers) yellow and bloom stalks leafless. Sunny, open places. Common name from sticky sap of stems and leaves. Used as medicine by Indians and as chewing gum.

Leaves: 8 to 10" long at base of plant becoming smaller and stalkless higher on the stem.

Flower: All yellow to 3" across. Blooms June-Sept.

Fruit: Achene



yellow-80



*Silphium gracile* Rosinweed

ASTERACEAE (COMPOSITAE) Sunflower family Triangle, August, 2002 CR Blakley



yellow-81



***Solidago altissima*** Tall Goldenrod, Common Goldenrod  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p111

Ajilvsgi — p294

Niehaus, Ripper & Savage —

Tveten & Tveten — p131 (*S. canadensis*)

Correll & Johnston — p1589

Shinners & Mahler — p410 (*S. canadensis*)

Vines — p

Cobb — p

General: Erect, pubescent perennial, 3-6' tall. Usually multistemmed, branched near top. Open low areas.

Leaves: Sessile, narrow lanceolate, roughish, 1 usually 3 prominent veins. 2-6" long. Usually with a few teeth, 5-10, along upper half.

Flower: Yellow. Small heads, 0.3-0.5" tall, numerous, 150-500, on short branches typically along one side of branches. 10-20 flowers per head of both ray and disk type.

Fruit: Achene

***Solidago altissima*** Tall Goldenrod

ASTERACEAE (COMPOSITAE) Sunflower family Big Meadow, September, 1997 CR Blakley





# Plants with Red flowers



***Trillium gracile*** Trillium, Wake-robin  
LILIACEAE Lily family

Peterson & Brown — p41

Ajilvsgi — p116

Niehaus, Ripper & Savage — p272

Tveten & Tveten — p

Correll & Johnston — p408

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect, leafless perennial from rhizome, to 12" tall. Rich pine woods.

Leaves: None. 3 large, elliptic, sessile bracts aligned with the petals. 3-4" long, 2-3" wide. Dark green, usually mottled.

Flower: Purple, solitary, 3 erect, curved, linear petals, 0.8-1.5" long, 0.3" wide. 6 stamens. Surrounded by 3 sepals spread flat between the petals. April-May

Fruit: Ovoid berry, many seeds.

***Trillium gracile*** Trillium

LILIACEAE Lily family Cove, March, 1998 CR Blakley



***Rumex hastatulus*** Heart-wing Dock, Heart sorrel, Dagger Sorrell  
POLYGONACEAE Buckwheat family

Peterson & Brown — p50

Ajilvsgi — p

Niehaus, Ripper & Savage — p282

Tveten & Tveten — p299 (*Rumex crispus*)

Correll & Johnston — p517

Shinners & Mahler — p906

Vines — p

Cobb — p

General: Annual or short lived perennial to 3' tall, usually in clumps or colonies in open places, roadsides, fields, thin woods.

Leaves: Long, narrow lobed at base.

Flower: Mar.-Aug. Densely crowded on racemes which are also crowded at top of stems. Reddish brown, attractive.

Fruit: Achene, 1/16" diameter

***Rumex hastatulus*** Heart-wing Dock  
POLYGONACEAE Buckwheat family King's Hill, May, 1999 CR Blakley





***Clematis pitcheri*** Leather Flower, Pitcher Clematis, Pitcher Flower  
RANUNCULACEAE Buttercup family

Peterson & Brown — p52

Ajilvsgi — p143

Niehaus, Ripper & Savage — p286

Tveten & Tveten — p

Correll & Johnston — p653

Shinners & Mahler — p921

Vines — p

Cobb — p

General: Woody perennial vine, branched, ribbed stems. Fencerows.

Leaves: Opposite, compound, 3 to 5 leaflets, usually deeply lobed.

Flower: Axillary, 1 to 7 flowers, nodding, urn shape, dull purple outside, greenish inside. April to September.

Fruit: Achene

***Clematis pitcheri*** Leather Flower  
RANUNCULACEAE Buttercup family NE Fence, July, 2000 CR Blakley



***Xanthorhiza simplicissima*** Yellowroot, Brook-feather  
RANUNCULACEAE Buttercup family

Peterson & Brown — p53

Ajilvsgi — p139

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p635

Shinners & Mahler — p

Vines — p

Cobb — p

General: Low shrub, 2' tall, forms colonies, roots yellow. Damp woods.

Leaves: Alternate, compound, usually five leaflets, oval, 1 to 3" long, toothed.

Flower: Five sepals, brownish purple, on terminal drooping raceme

Fruit: one-seeded follicle, minute.

4X



1X yellow root





*Xanthorhiza simplicissima* Yellowroot

RANUNCULACEAE Buttercup family Enchanted Isle, April, 2000 CR Blakley





***Desmodium ciliare*** Littleleaf Tick-clover  
FABACEAE (LEGUMINOSAE) Pea family

Peterson & Brown — p63

Ajilvsgi — p172 (*D. paniculatum*)

Niehaus, Ripper & Savage — p328 (*D. grahamii*)

Tveten & Tveten — p

Correll & Johnston — p863

Shinners & Mahler — p655

Vines — p

Cobb — p

General: Erect perennial, to 4' tall, branched from base. Sandy woods and openings.

Leaves: Compound, 3 mostly equal leaflets to 1 ½" long, ¾" wide, on short, ¼" long petiole, almost sessile.  
Stems hairy.

Flower: Pink, on raceme, ¼" long pedicels, ¼" long corollas. August-October.

Fruit: Legume, ¼" long segments, to 3 segments.



6X hairs on stem  
(centimeter ruler)

4X



***Desmodium ciliare*** Littleleaf Tick-clover  
FABACEAE (LEGUMINOSAE) Pea family Big Meadow, September, 2002 CR Blakley



***Erythrina herbacea*** Eastern Coral Bean, Cherokee Bean  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p63

Ajilvsgi — p176

Niehaus, Ripper & Savage — p

Tveten & Tveten — p189

Correll & Johnston — p880

Shinners & Mahler — p658

Vines — p

Cobb — p

General: Erect perennial shrub, usually multistemmed, to 6' tall. Sandy woods

Leaves: Alternate, compound, 3 leaflets, triangular, 3-5" long, 1-4" wide, prickly petioles.

Flower: Red, tubular, 1-2" long, many on terminal raceme. April-June

Fruit: Legume, to 8" long, large red seeds.



***Erythrina herbacea*** Eastern Coral Bean  
FABACEAE - LEGUMINOSAE Pea family Walnut Hill, June, 1998 CR Blakley





***Galactia volubilis*** Downy Milk-pea  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p64

Ajilvsgi — p176 (*G. macreei*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p191 (*G. regularis*)

Correll & Johnston — p881

Shinners & Mahler — p660

Vines — p

Cobb — p

General: Trailing perennial herbaceous vine to 6' long, hairy. Woodlands.

Leaves: Alternate, compound, 3 leaflets, oval, 1-2" long, 1" wide.

Flower: Pink, 1-3 on raceme from nodes, ½" long.

Fruit: legume, 1-3" long.

***Galactia volubilis*** Downy Milk-pea  
FABACEAE - LEGUMINOSAE Pea family Cullinan Meadow, June, 1999 CR Blakley



***Indigofera suffruticosa*** Anil Indigo  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p64

Ajilvsgi — p164 (*I. Miniata*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p192 (*I. Miniata*)

Correll & Johnston — p811

Shinners & Mahler — p664

Vines — p

Cobb — p

General: Shrubby perennial, to 6' tall, introduced from tropical America.

Leaves: Alternate, compound, 9-15 leaflets, oval, almost opposite.

Flower: Red, many on axillary raceme, petals ½" long. July-November.

Fruit: Legume, ½ to ¾" long.



red-16



***Indigofera suffruticosa*** Anil Indigo  
FABACEAE - LEGUMINOSAE Pea family King's Hill, July, 2001 CR Blakley





***Geranium carolinianum*** Carolina Geranium, Crane's Bill, Wild Geranium  
GERANIACEAE Geranium family

Peterson & Brown — p66

Ajilvsgi — p179

Niehaus, Ripper & Savage — p292

Tveten & Tveten — p201

Correll & Johnston — p891

Shinners & Mahler — p732

Vines — p

Cobb — p

General: Erect or sprawling annual to 2' long, hairy stems.

Leaves: Alternate, round, 5-9 deep lobes, to 3" diameter.

Flower: Pink, paired, 5 petals, ¼" long. March-May

Fruit: Capsule

4X



red-18

***Geranium carolinianum*** Carolina Geranium  
GERANIACEAE Geranium family Cove, March, 2001 CR Blakley



***Malvaviscus arboreus*** Drummond wax-mallow, Turk's cap, Texas Mallow  
MALVACEAE Mallow family

Peterson & Brown — p73

Ajilvsgi — p191

Niehaus, Ripper & Savage — p238

Tveten & Tveten — p215

Correll & Johnston — p1028

Shinners & Mahler — p815

Vines — p742

Cobb — p

General: Sprawling multistemmed woody shrub. Wooded floodplains. To 4 feet.

Leaves: Simple, alternate, petioled, heart shaped. To 3.5" long

Flower: Bright red. Single from leaf axils. 5 petals swirled about fused stamen/style column. 5 styles protrude beyond petals. To 1.5" long. Blooms all year.

Fruit: Red globe, 5 seeds, edible

***Malvaviscus arboreus*** Drummond wax-mallow  
MALVACEAE Mallow family Little Jordan, September, 1997 CR Blakley





***Lechea mucronata*** Hairy Pinweed  
CISTACEAE Rockrose family

Peterson & Brown — p75

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1072

Shinners & Mahler — p543

Vines — p

Cobb — p

General: Erect perennial, to 30" tall, aerial stems. Sandy fields.

Leaves: Alternate, opposite, or whorled. Mid stem leaves wider than 1/8".

Flower: Reddish, inconspicuous, few in dense cluster, 3 petals. June-November.

Fruit: Capsule, 1/8" long, 2-4 seeds.

16X



red-22

***Lechea mucronata*** Hairy Pinweed  
CISTACEAE Rockrose family Cullinan Meadow, July, 1999 CR Blakley



***Oenothera speciosa*** Showy Evening-Primrose, Prairie Primrose, Buttercups  
ONAGRACEAE Evening-primrose family

Peterson & Brown — p78

Ajilvsgi — p210

Niehaus, Ripper & Savage — p278

Tveten & Tveten — p217

Correll & Johnston — p1129

Shinners & Mahler — p866

Vines — p

Cobb — p

General: Low growing perennial herb, erect or sprawling, often branched. Prairies.

Leaves: Simple, alternate, highly variable. Usually lobed, wavy margins, 1-3.5" long, 1" wide, sessile or with petiole to 1" long.

Flower: Pink. Solitary, pedicelled, to 1.5", from upper leaf axils. Cup shaped, 4 overlapping petals 1-1.5" long, united at base. Corolla tube 0.8" long. Yellowish center, with purple stripes on petals. 8 Stamens, prominent cross shaped stigma. Nodding buds erect upon opening. March-July

Fruit: Capsule, many seeds.

***Oenothera speciosa*** Showy Evening-Primrose  
ONAGRACEAE Evening-primrose family Cullinan meadow, April, 1998 CR Blakley





***Rhododendron prinophyllum*** Early Azalea, Honeysuckle  
ERICACEAE Heath family

Peterson & Brown — p82

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1178

Shinners & Mahler — p

Vines — p

Cobb — p

General: Deciduous shrub to 10' tall. Sandy soil along streams.

Leaves: Alternate, deciduous, narrowly elliptical to 4" long.

Flower: Few to several in showy terminal clusters, opening with leaves, pink, 1 ½" long, trumpet shaped, 5-lobed. February-May.

Fruit: Capsule, dark brown, ¾" long.

*Rhododendron prinophyllum* Early Azalea  
ERICACEAE Heath family Enchanted Isle, March, 1999 CR Blakley



***Anagallis arvensis*** Scarlet Pimpernel, Hierra del Pajaro  
PRIMULACEAE Primrose family

Peterson & Brown — p82

Ajilvsgi — p221

Niehaus, Ripper & Savage — p300

Tveten & Tveten — p220

Correll & Johnston — p1185

Shinners & Mahler — p912

Vines — p

Cobb — p

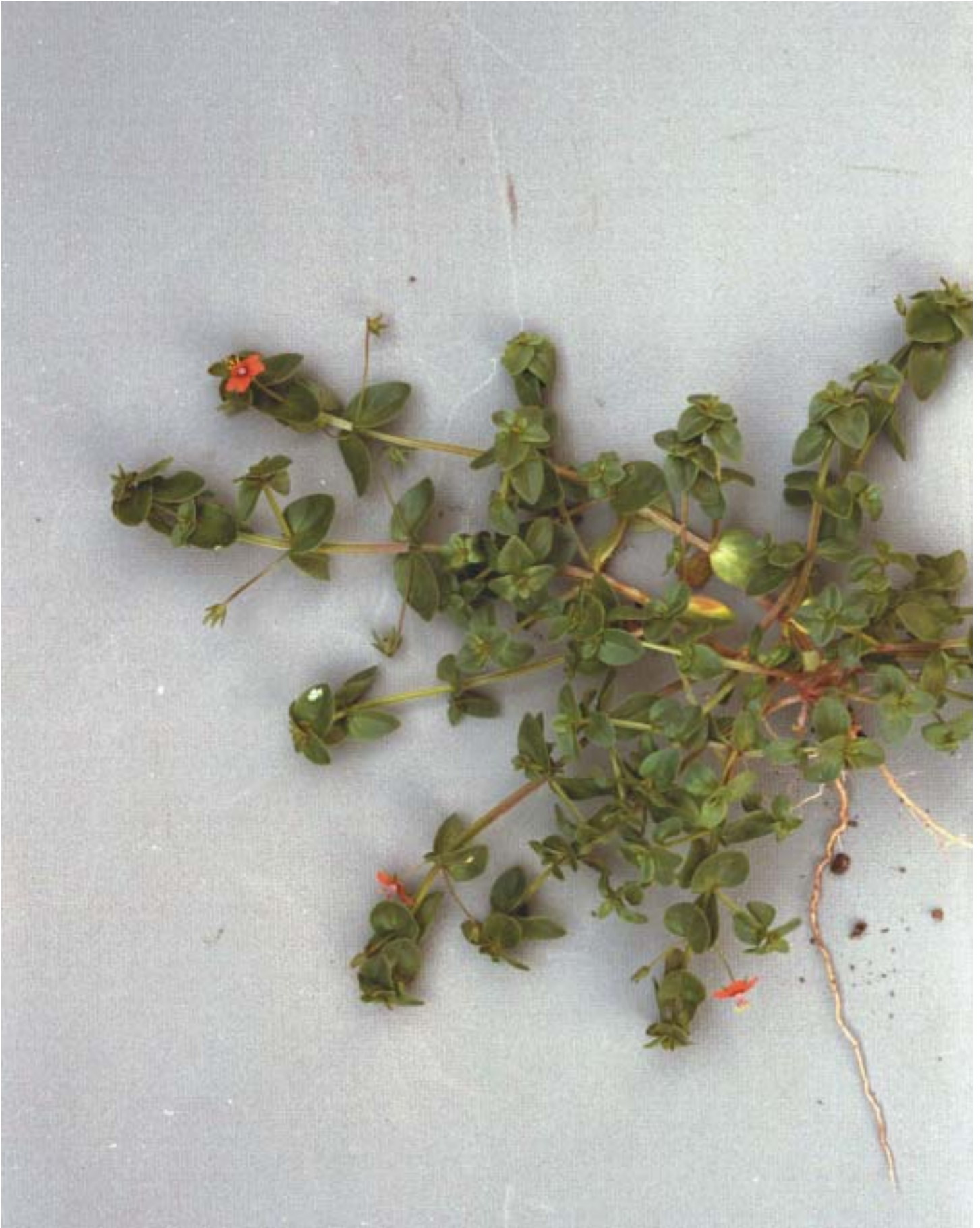
General: Low, spreading, prostrate, annual herb from Europe. Moist prairies.

Leaves: Opposite, sessile, clasping, oval, to 1" long, 0.5" wide.

Flower: Salmon, solitary on axillary 0.5" pedicels, 5 petals and stamens. March-May.

Fruit: Capsule, many seeds.

***Anagallis arvensis*** Scarlet Pimpernel  
PRIMULACEAE Primrose family Cove, April, 1998 CR Blakley





***Spigelia marilandica*** Indian-pink

Family common name family

Peterson & Brown — p85

Ajilvsgi — p223

Niehaus, Ripper & Savage — p236

Tveten & Tveten — p

Correll & Johnston — p1201

Shinners & Mahler — p799

Vines — p

Cobb — p

General: Perennial to 2 ½' tall. 4 sided stem branching from base. In moist woods.

Leaves: Dark green, stalkless, to 4" long.

Flower: On narrow curving spike at top of branches. Tubular, 1 ½" long, bright red outside, bright yellow inside with 5 pointed lobes at top. May to Oct

Fruit: Capsule. Many seeds.

***Spigelia marilandica*** Indian-pink  
LOGANIACEAE Logania family Cove, May, 1998 CR Blakley



***Sabatia campestris*** Meadow-pink, Prairie Rose-gentian, Texas Star, Rose-pink  
GENTIANACEAE Gentian family

Peterson & Brown — p85

Ajilvsgi — p226

Niehaus, Ripper & Savage — p242

Tveten & Tveten — p199

Correll & Johnston — p1206

Shinners & Mahler — p728

Vines — p

Cobb — p

General: Erect annual to 20" tall. Usually much shorter. Alternately branched in upper portion. Prairies.

Leaves: Opposite, sessile, clasping. Oblong to 2" long, 0.8" wide.

Flower: Pink with yellow central star, to 1.5". Solitary at ends of branches or on peduncles from leaf axils. 5 deep lobes, 1" long, 0.5" wide. Calyx tube prominently ridged, bristles extending between and often as long as corolla lobes. April-July

Fruit: Capsule. 0.4" long, numerous seeds.

***Sabatia campestris*** Meadow-pink  
GENTIANACEAE Gentian family Cullinan meadow, April, 1998 CR Blakley





***Asclepias tuberosa*** Butterfly milkweed, Butterfly-weed, Orange Milkweed, Chigger-flower, Chiggerweed, Pleurisy-root  
ASCLEPIADACEAE Milkweed family

Peterson & Brown — p86

Ajilvsgi — p232

Niehaus, Ripper & Savage — p234

Tveten & Tveten — p

Correll & Johnston — p1226

Shinners & Mahler — p280

Vines — p

Cobb — p

General: Erect or sprawling perennial to 3' tall. No milky sap. Usually unbranched. Prairies.

Leaves: Opposite, irregular, usually sessile, to 4" long, 1" wide.

Flower: Entirely orange or orange-red, on terminal umbel. April-September.

Fruit: Follicle, to 6" long.

***Asclepias tuberosa*** Butterfly milkweed  
ASCLEPIADACEAE Milkweed family Cove, May, 1998 CR Blakley



***Ipomoea trichocarpa*** Morning-glory, Tie vine, Coastal Morning-glory  
CONVOLVULACEAE Morning-glory family

Peterson & Brown — p87

Ajilvsgi — p

Niehaus, Ripper & Savage — p240

Tveten & Tveten — p187

Correll & Johnston — p1253

Shinners & Mahler — p

Vines — p

Cobb — p

General: Perennial climbing vine. Disturbed ground

Leaves: Variable, usually deeply lobed, to 4" long, 3" wide.

Flower: Rose with darker center. Funnel shaped, to 2". June-October

Fruit: Capsule

*Ipomoea trichocarpa* Morning-glory  
CONVOLVULACEAE Morning-glory family Cove, August, 1999 CR Blakley





***Phlox drummondii*** Drummond Phlox  
POLEMONIACEAE Phlox family

Peterson & Brown — p87

Ajilvsgi — p242

Niehaus, Ripper & Savage — p310

Tveten & Tveten — p

Correll & Johnston — p1270

Shinners & Mahler — p892

Vines — p

Cobb — p

General: Erect pubescent annual to 20" with usually solitary stem, branched at top. Sandy open woodlands.

Leaves: Opposite, sessile, clasping near top, oblong, 1-3" long, 0.6" wide.

Flower: Bright pink but highly variable from white to purple to bicolored, often with darker central portion. Trumpet with 5 lobes spread flat. Numerous flowers, 0.6" long, on cymes in coiled terminal cluster. May-September.

Fruit: Capsule, 10-20 seeds

1X bloom color variations



***Phlox drummondii*** Drummond Phlox  
POLEMONIACEAE Phlox family Walnut Hill, April, 1998 CR Blakley



***Phlox pilosa*** Prairie phlox, Downy Plox  
POLEMONIACEAE Phlox family

Peterson & Brown — p87

Ajilvsgi — p241

Niehaus, Ripper & Savage — p342

Tveten & Tveten — p264

Correll & Johnston — p1269

Shinners & Mahler — p892

Vines — p

Cobb — p

General: Erect pubescent perennial to 2' tall. 1 or more stems. Highly variable. Open pinelands.

Leaves: Opposite, narrowly linear-lanceolate to 5" long, 0.4" wide, fringed with hairs.

Flower: Pink. Numerous on panicle with short pedicels. Short, 0.5" corolla tube. 5 lobes, 0.5" long, with narrow base and broad pointed tip. Deeply lobed calyx tube with terminal awn to 0.1" long (diagnostic of *P. pilosa*). April-May

Fruit: Ellipsoid capsule, 0.3" long, 3 seeds



***Phlox pilosa*** Prairie phlox, Downy Plox  
POLEMONIACEAE Phlox family Cullinan meadow, April, 1998 CR Blakley





***Ipomopsis rubra*** Standing Cypress, Texas Plume, Red Gilia, Indian Plume  
POLEMONIACEAE Phlox family

Peterson & Brown — p87

Ajilvsgi — p240

Niehaus, Ripper & Savage — p312

Tveten & Tveten — p

Correll & Johnston — p1264

Shinners & Mahler — p890

Vines — p

Cobb — p

General: Erect biennial, to 6' tall. Sandy fields. One of the showiest flowers in Texas.

Leaves: Alternate, basal rosette, sessile along stem, to 2" long, deeply cut, thread-like.

Flower: Scarlet, 1" long, tubular, 5 lobes, on long terminal panicle. June-August.

Fruit: Capsule, numerous seeds.



red-42

*Ipomopsis rubra* Standing Cypress  
POLEMONIACEAE Phlox family King's Hill, month, 1997 CR Blakley



***Callicarpa americana*** American Beauty-berry, French Mulberry, Bermuda Mulberry, Sour-bush, Bunchberry, Filigrana, Foxberry, Purple Mulberry, Turkeyberry  
VERBENACEAE Verbena family

Peterson & Brown — p88

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1339

Shinners & Mahler — p1049

Vines — p892

Cobb — p

General: A bushy shrub, 2-6' high, large opposite leaves in sandy open woods.

Leaves: Simple, opposite, oval, narrowed at both ends, saw-toothed, smooth above, scruffy & hairy underneath.

Flower: Pale pink, corolla 4 lobed, 1/8" across, stalks 1/2-2" long, stamens 4 equal, conspicuous, extending beyond corolla. June-December.

Fruit: Small, globular, reddish or purple fruit in bunches along stems.



1X Fruit



***Callicarpa americana*** American Beauty-berry  
VERBENACEAE Verbena family Cove, June, 1998 CR Blakley





***Agalinus heterophylla*** Prairie Agalinus  
SCROPHULARIACEAE Figwort family

Peterson & Brown — p92

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p222

Correll & Johnston — p1437

Shinners & Mahler — p993

Vines — p

Cobb — p

General: Erect annual to 2' tall. Moist fields.

Leaves: Opposite, simple, ascending, linear, to 2" long, 1/4" wide.

Flower: Pink with purple spots, to 1 1/2" long, calyx deeply lobed. June-October.

Fruit: Capsule, many seeds

4X note length of calyx lobes



***Agalinus heterophylla*** Prairie Agalinus  
SCROPHULARIACEAE Figwort family Triangle, September, 1999 CR Blakley



***Agalinus purpurea*** Purple Agalinus, Purple Gerardia  
SCROPHULARIACEAE Figwort family

Peterson & Brown — p92

Ajilvsgi — p265

Niehaus, Ripper & Savage — p248

Tveten & Tveten — p

Correll & Johnston — p1437

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual to 2' tall. Moist fields.

Leaves: Opposite, simple, ascending, linear, to 1 1/2" long, 1/8" wide.

Flower: Pink with purple spots, to 1 1/2" long, calyx shallowly lobed, 1/16" deep. August-November.

Fruit: Capsule, many seeds

4X note length of calyx lobes





***Agalinus purpurea*** Purple Agalinus  
SCROPHULARIACEAE Figwort family Cullinan Meadow, October, 2001 CR Blakley





***Castilleja indivisa*** Paintbrush, Indian Paintbrush, Texas Paintbrush, Entire-leaf  
Paintbrush

SCROPHULARIACEAE Figwort family

Peterson & Brown — p92

Ajilvsgi — p267

Niehaus, Ripper & Savage — p250

Tveten & Tveten — p223

Correll & Johnston — p1442

Shinners & Mahler — p996

Vines — p

Cobb — p

General: Erect hairy annual to 19" tall. Moist fields.

Leaves: Alternate, simple, sessile, narrowly linear, to 4" long, rolled wavy margins.

Flower: Inconspicuous, white, 1" long, superceded by orange-red floral bracts, on terminal spike. May-June.

Fruit: Capsule, many seeds

***Castilleja indivisa*** Paintbrush  
SCROPHULARIACEAE Figwort family Triangle, April, 1998 CR Blakley



***Bignonia capreolata*** Cross-vine, Quarter-vine  
BIGNONIACEAE Trumpet-creeper Family

Peterson & Brown — p94

Ajilvsgi — p268

Niehaus, Ripper & Savage — p

Tveten & Tveten — p183

Correll & Johnston — p1443

Shinners & Mahler — p442

Vines — p

Cobb — p

General: High climbing woody evergreen vine, by tendrils at ends of leaves.

Leaves: Opposite, compound. 3 leaflets to 6" long, third leaflet is tendril.

Flower: Orange and yellow. 5 united petals to form a shallowly lobed trumpet, to 2" long, lobes folded back. March-May

Fruit: Capsule to 6" long, 1" wide, papery seeds.

***Bignonia capreolata*** Cross-vine  
BIGNONIACEAE Trumpet-creeper Family Cove, March, 2001 CR Blakley





***Campsis radicans*** Trumpet creeper, Trumpet vine, Cow-itch vine, Trumpet Honeysuckle  
BIGNONIACEAE Trumpet-creeper Family

Peterson & Brown — p94

Ajilvsgi — p268

Niehaus, Ripper & Savage — p

Tveten & Tveten — p184

Correll & Johnston — p1443

Shinners & Mahler — p442

Vines — p

Cobb — p

General: Sprawling to high climbing woody shrubby somewhat hairy vine, to 40 ft long by aerial rootlets along stem.

Leaves: Opposite, pinnate compound (like a feather). Leaflets 7 to 13" long, pointed (acute), coarsely notched.

Flower: Petals 5 united to form a tubular funnel with 5 lobes 2 to 3 ½" long and 1 ¼ to 2" across, red and orange, yellow within. Pollinated by hummingbirds and long tongued bees. June-September.

Fruit: Narrow linear pod 4 to 8" long, splitting to liberate many seeds 2/3" long—flat and brown.

***Campsis radicans*** Trumpet creeper  
BIGNONIACEAE Trumpet-creeper Family NE Fence, July, 2000 CR Blakley



***Dicliptera brachiata*** False Mint  
ACANTHACEAE Acanthus family

Peterson & Brown — p94

Ajilvsgi — p274

Niehaus, Ripper & Savage — p

Tveten & Tveten — p175

Correll & Johnston — p1471

Shinners & Mahler — p212

Vines — p

Cobb — p

General: Erect perennial to 30" tall, many opposite, spreading, hexagonal, branches. Shady moist places.

Leaves: Opposite, broadly elliptical, to 4" long, 2" wide, petioles to 2 ½" long

Flower: Purple to pink, ¾" long, hairy, 2 lips, upper lip narrow, lower lip 3 shallow lobes, sessile, in axillary cluster. July-October.

Fruit: Capsule, hairy, ¼" long, 2 seeds.

***Dicliptera brachiata*** False Mint

ACANTHACEAE Acanthus family Cove, November, 2001 CR Blakley





***Diodia teres*** Rough Buttonweed, Poor-Joe Buttonweed  
RUBIACEAE Madder family

Peterson & Brown — p95

Ajilvsgi — p278 (*D. virginiana*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p85 (*D. virginiana*)

Correll & Johnston — p1496

Shinners & Mahler — p962

Vines — p

Cobb — p

General: Erect annual with sprawling branches to 2' long. Sandy open woods.

Leaves: Opposite, sessile, linear, to 2" long, 1/2" wide.

Flower: Pinkish, funnel shaped, sessile, usually 4 in axils. May-November.

Fruit: Capsule, 1/4" long.

4X



red-58

*Diodia teres* Rough Buttonweed  
RUBIACEAE Madder family Cove, June, 2000 CR Blakley



***Hedyotis nigricans*** Narrowleaf Bluet, Prairie Bluets, Fine-leaf Bluet, Star-violet  
RUBIACEAE Madder family

Peterson & Brown — p96

Ajilvsgi — p

Niehaus, Ripper & Savage — p280

Tveten & Tveten — p88

Correll & Johnston — p1490

Shinners & Mahler — p966

Vines — p

Cobb — p

General: Erect perennial to 19" tall, often in dense colonies. Calcareous soils, fields.

Leaves: Opposite, sessile, linear to 2" long, 1/8" wide.

Flower: Pink, solitary, terminal, trumpet shaped, 4 lobes, sharply pointed, stamens exerted. April-October.

Fruit: Capsule, minute seeds.

4X



4X





*Hedyotis nigricans* Narrowleaf Bluet  
RUBIACEAE Madder family Cullinan Meadow, Jun, 2000 CR Blakley





***Hedyotis rosea*** Pink Bluet, Rose Bluet  
RUBIACEAE Madder family

Peterson & Brown — p96

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1490

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual to 2" tall, often spreading. Fields.

Leaves: Opposite, sessile, linear to 1/2" long, 1/16" wide.

Flower: Pink, solitary, terminal, trumpet shaped, 4 lobes, tube and lobes about 1/4" long, hairy inside.  
February-April.

Fruit: Capsule, minute seeds.

4X



red-62

***Hedyotis rosea*** Pink Bluet

RUBIACEAE Madder family King's Hill, March, 2000 CR Blakley



***Lonicera sempervirens*** Trumpet Honeysuckle, Coral Honeysuckle, Woodbine  
CAPRIFOLIACEAE Honeysuckle family

Peterson & Brown — p97

Ajilvsgi — p280

Niehaus, Ripper & Savage — p

Tveten & Tveten — p185

Correll & Johnston — p1500

Shinners & Mahler — p510

Vines — p956

Cobb — p

General: Twining, woody perennial vine, to 18' long. Woods & thickets.

Leaves: Opposite, evergreen, oval, short petioled. Perfoliate at end of stem. Paler below.

Flower: Red, 4-6 on terminal spikelike panicle, to 2" long, style exerted.

Fruit: Berry, red.

***Lonicera sempervirens*** Trumpet Honeysuckle  
CAPRIFOLIACEAE Honeysuckle family Cullinan Meadow, June, 2000 CR Blakley





***Lobelia cardinalis*** Cardinal Flower  
CAMPANULACEAE Bluebell Family

Peterson & Brown — p98

Ajilvsgi — p283

Niehaus, Ripper & Savage — p236

Tveten & Tveten — p

Correll & Johnston — p1522

Shinners & Mahler — p498

Vines — p

Cobb — p

General: Erect perennial to 6" tall, usually shorter, usually unbranched. Moist areas.

Leaves: Alternate, petioled in lower portions, sessile in upper portions, broadly lanceolate, to 8" long, 2" wide, toothed.

Flower: Red, numerous on dense terminal raceme to 20" long. 2 lipped corolla to 2" long. Upper lip narrow, deeply lobed. Lower lip 3 lobed and broad. May-December.

Fruit: Capsule, to 3/8" long, many seeds.

4X



***Lobelia cardinalis*** Cardinal Flower

CAMPANULACEAE Bluebell Family Little Jordan, September, 1999 CR Blakley



***Eupatorium fistulosum*** Joe-pye-weed, Trumpet-weed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p289

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1554

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect, stout perennial to 10' tall, forming clumps. Wet areas.

Leaves: Whorled, 4-7 at each node, broadly lanceolate to 8" long, 3" wide, coarsely toothed. Prominently veined, petioles to 1" long.

Flower: Pink, discoid, ¼" long, numerous heads forming a rounded cluster. July-August.

Fruit: Achene, 5 ribs, black.



*Eupatorium fistulosum* Joe-pye-weed  
ASTERACEAE (COMPOSITAE) Sunflower family Chasm, August, 2000 CR Blakley





***Eupatorium incarnatum*** Pink Eupatorium, Pink Boneset  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p106

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1556

Shinners & Mahler — p354

Vines — p

Cobb — p

General: Erect perennial to 6' tall, numerous branches. Thickets.

Leaves: Opposite, triangular, to 2" long, coarsely toothed, curled hairs on bottom.

Flower: Pink, discoid, ¼" long, phyllaries pointed, in small rounded clusters at end of branches. October-December.

Fruit: Achene.

4X



red-70

***Eupatorium incarnatum*** Pink Eupatorium  
ASTERACEAE (COMPOSITAE) Sunflower family Dillo Wallow, October, 2001 CR Blakley



***Gaillardia ambylodon*** Red gaillardia  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p(addendum)

Ajilvsgi — p314 (*G. puchella*)

Niehaus, Ripper & Savage — p330 (*G. puchella*)

Tveten & Tveten — p178 (*G. puchella*)

Correll & Johnston — p1672

Shinners & Mahler — p

Vines — p

Cobb — p

General: Annual, pubescent herb, 1-2' tall, usually branched. Becomes woody. Sandy fields.

Leaves: Alternate, sessile, clasping, or tapering to short petiole. Oblong, both surfaces hairy, 2-4" long, variable margins.

Flower: Red ray flowers, not yellow tipped, 3 toothed, 0.5 to 1" long. Hemispherical receptacle, 0.5-1" diameter. Purple-red disk flowers. Terminal on 2-8" long peduncle. June-August.

Fruit: Achene

***Gaillardia ambylodon*** Red gaillardia

ASTERACEAE (COMPOSITAE) Sunflower family King's Hill, April, 1998 CR Blakley





***Palafoxia hookeriana***, Showy Palafoxia  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p109

Ajilvsgi — p317

Niehaus, Ripper & Savage — p334 (*P. callosa*)

Tveten & Tveten — p179 (*P. rosea*)

Correll & Johnston — p1696

Shinners & Mahler — p392

Vines — p

Cobb — p

General: Taprooted annual. Erect, solitary stem, usually branching near middle. Conspicuous, sticky glands below flower head. To 20" tall. Sandy fields.

Leaves: Alternate, petioled, lanceolate, 3" long, 0.7" wide.

Flower: Rose. Ray and disk flowers on essentially flat terminal head. Ray flowers 0.5" long. Disk flowers perfect, 5 lobes, dark brown anthers, styles have 2 branches. September-October

Fruit: Achene, 0.3" long, 4 angled, ovoid.



***Palafoxia hookeriana*** Hooker Palafoxia  
ASTERACEAE (COMPOSITAE) Sunflower family Martin Flat, September, 1999 CR Blakley



***Vernonia missurica*** Missouri Ironweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p112

Ajilvsgi — p284

Niehaus, Ripper & Savage — p334 (*V. baldwinii*)

Tveten & Tveten — p182 (*V. texana*)

Correll & Johnston — p1536

Shinners & Mahler — p428

Vines — p

Cobb — p

General: Perennial herb, erect, solitary stem, branching at top. 3-5' tall. Moist woods. Readily hybridizes, making identification of some specimens impossible (Correll & Johnston, p1535).

Leaves: Alternate, pinnately veined, pubescent, lanceolate, mostly sessile. 4-6" long, 1-2" wide.

Flower: Dark rose, discoid, 0.2" long, appressed phyllaries. 30-50 flowers in head, 0.2-0.5" broad. Heads grouped in terminal corymbiform.

Fruit: Achene, 0.2" long, resinous between ribs.

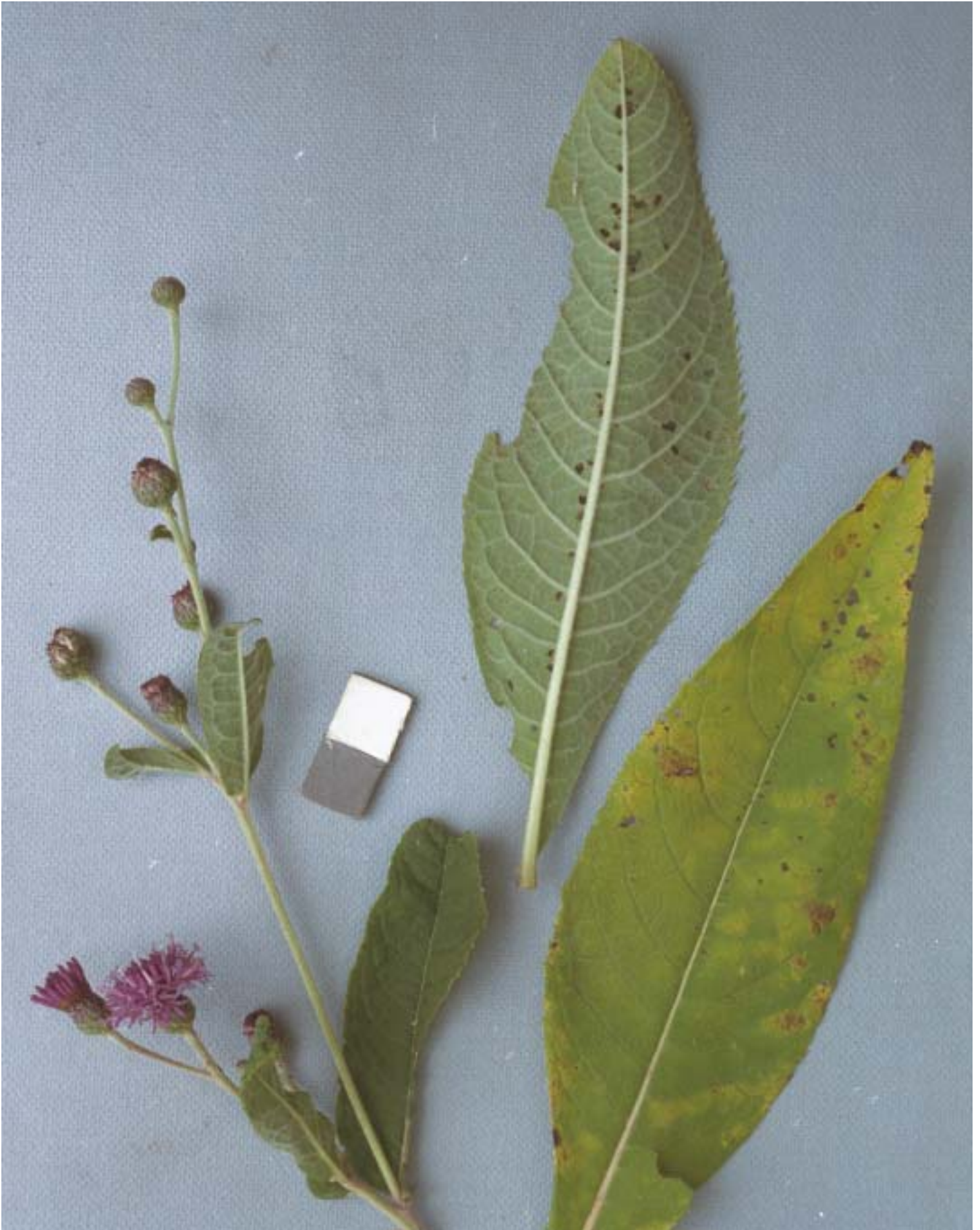
4X





***Vernonia missurica*** Missouri Ironweed

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 1997 CR Blakley





***Vernonia texana*** Texas Ironweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p112

Ajilvsgi — p285

Niehaus, Ripper & Savage — p334 (*V. baldwinii*)

Tveten & Tveten — p182

Correll & Johnston — p1537

Shinners & Mahler — p428

Vines — p

Cobb — p

General: Perennial herb, erect, solitary stem, branching at top. 3' tall. Moist woods. Readily hybridizes, making identification of some specimens impossible (Correll & Johnston, p1535).

Leaves: Alternate, linear lanceolate, sessile, pitted on lower surface. 4" long, 1" wide, reduced in upper portions.

Flower: Dark rose, discoid, 0.2" long, appressed phyllaries, purple tinged. 18-21 flowers in head, 0.2-0.5" broad. Heads loosely grouped in terminal cyme.

Fruit: Achene, 0.2" long, resinous between ribs.

4X



red-78

***Vernonia texana*** Texas Ironweed  
ASTERACEAE (COMPOSITAE) Sunflower family NE Fence, August, 2001 CR Blakley





# Plants with Blue flowers



***Commelina erecta*** Erect Dayflower, Widow's Tears  
COMMELINACEAE Spiderwort family

Peterson & Brown — p38

Ajilvsgi — p109

Niehaus, Ripper & Savage — p338

Tveten & Tveten — p243

Correll & Johnston — p358

Erect perennial to 20" tall, lying flat as season progresses but with erect terminal stems. Sandy soils.  
May-October

Flower: Blue. Terminal or axillary. 3 Petals, 2 upper to 0.5", lower petal much reduced and whitish.  
Flowers close early in day.

Leaves: Alternate, sheathed, parallel veined, rough pubescent, lanceolate, to 6" long, 1" wide.

Fruit: Capsule, 1-3 seeds.

4X



blue-2

***Commelina erecta*** Erect Dayflower, Widow's Tears  
COMMELINACEAE Spiderwort family King's Hill, April, 1998 CR Blakley



***Commelina virginica*** Bearded Dayflower, Virginia Dayflower  
COMMELINACEAE Spiderwort family

Peterson & Brown — p38

Ajilvsgi — p109 (*Commelina* sp)

Niehaus, Ripper & Savage — p338 (*Commelina* sp)

Tveten & Tveten — p243 (*Commelina* sp)

Correll & Johnston — p358

Shinners & Mahler — p1100

Vines — p

Cobb — p

General: Coarse erect perennial to 40" tall. Low woods. May-October

Leaves: Alternate, sheathed (with red hairs), parallel veined, rough when rubbed from tip to base, lanceolate, to 8" long, 2" wide.

Flower: Blue. Terminal or axillary. 3 Petals, all blue. Flowers close early in day.

Fruit: Capsule, 1-3 seeds.



4x

blue-4



***Commelina virginica*** Bearded Dayflower  
COMMELINACEAE Spiderwort family King's Hill, April, 1998 CR Blakley





***Tradescantia hirsutiflora*** Hairy spiderwort, Hairy flowered spiderwort  
COMMELINACEAE Spiderwort family

Peterson & Brown — p38

Ajilvsgi — p109

Niehaus, Ripper & Savage — p338 (*Tradescantia* sp)

Tveten & Tveten — p244 (*Tradescantia* sp)

Correll & Johnston — p362

Shinners & Mahler — p1102

Vines — p

Cobb — p

General: Perennial plant with erect stems usually with coarse hairs to 20” tall. Sandy soil in prairies and open woods. Genus named for John Tradescant, gardener for an English King of the 17th century.

Leaves: Long narrow-pointed at tip, sheathing stem at base.

Flower: Bright blue, rarely pink, clustered at top of plant. Hair on flowers seems limited to the filaments.  
Bloom March-June

Fruit: Oval capsules splitting into 3 pieces.

*Tradescantia hirsutiflora* Hairy spiderwort  
COMMELINACEAE Spiderwort Cove, April, 1998 CR Blakley



***Thalia dealbata*** Powdery Thalia  
MARANTACEAE Arrowroot family

Peterson & Brown — addendum

Ajilvsgi — p122

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p433

Shinners & Mahler — p1212

Vines — p

Cobb — p

General: Erect aquatic perennial, to 8' tall. Shallow water

Leaves: Alternate, long petioled from base, banana-like, 12-24" long, 8" wide, prominent midrib

Flower: Loose raceme on 3-8' scape, powdery coating, purple, 3 unequal petals

Fruit: Capsule, 3/8" diameter, one seed



4X

blue-8

***Thalia dealbata*** Powdery Thalia  
MARANTACEAE Arrowroot family Wetlands, July, 2001 CR Blakley





***Centrosema virginianum*** Butterfly Pea, Coastal Butterfly Pea  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p62

Ajilvsgi — p175

Niehaus, Ripper & Savage — p380

Tveten & Tveten — p188

Correll & Johnston — p878

Shinners & Mahler — p639

Vines — p

Cobb — p

General: Trailing, twining vines to 6'. Sandy soils, fields, fences, woodland edges. Good bee plant.

Leaves: Alternate, long stalked, compound with 3 leaflets to 2 ½" long.

Flower: 1½" across, typical pea-blossom shape. Pink to lavender to violet blue. Blooms Mar.-Nov.

Fruit: 1-5" long, slender, flattened pods.

***Centrosema virginianum*** Butterfly Pea  
FABACEAE - LEGUMINOSAE Pea family King's Hill, August, 2001 CR Blakley



***Lupinus subcarnosus*** Bluebonnet, Shy bluebonnet  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p64

Ajilvsgi — p162

Niehaus, Ripper & Savage — p348

Tveten & Tveten — p247 (*L. texensis*)

Correll & Johnston — p803

Shinners & Mahler — p672

Vines — p

Cobb — p

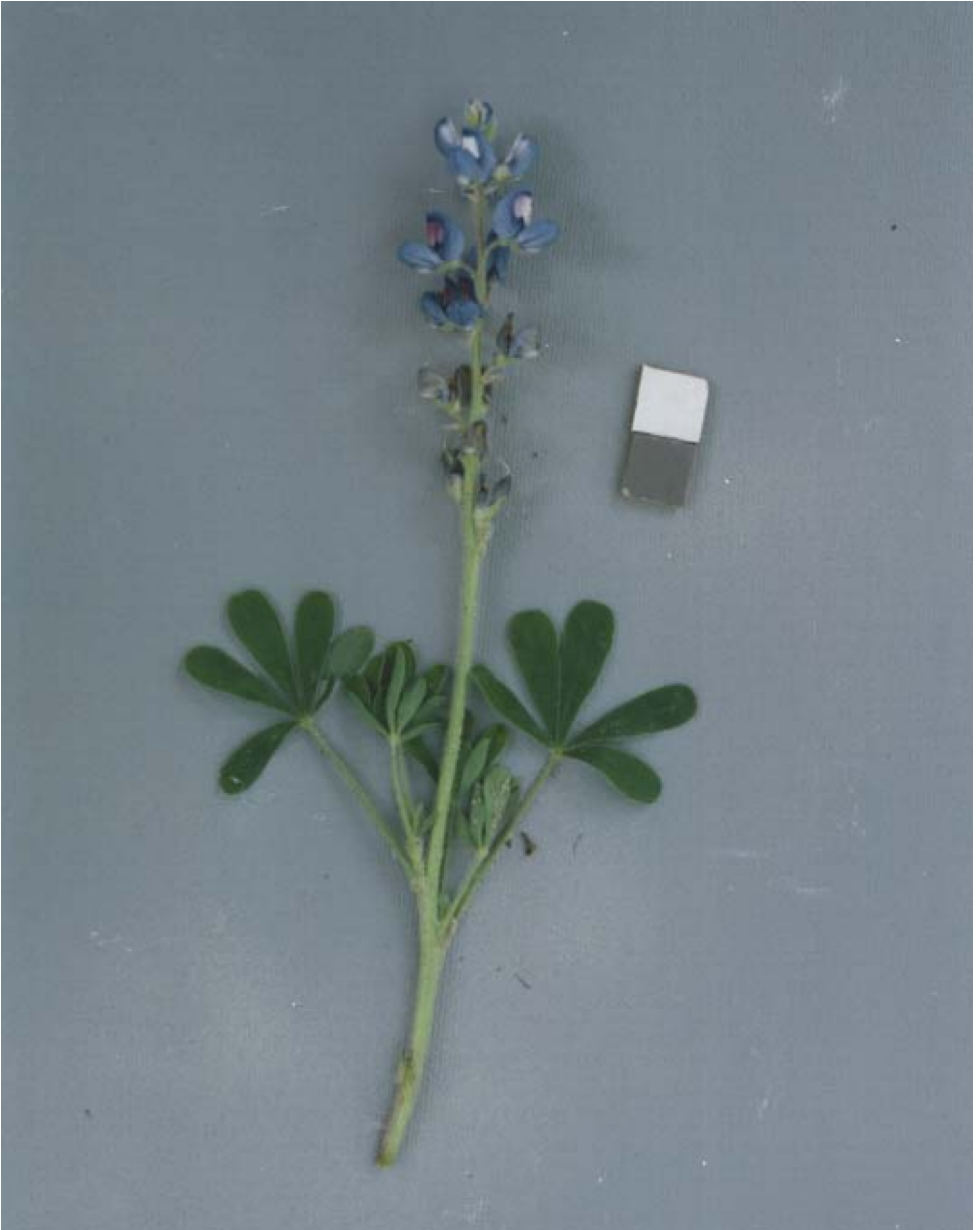
General: Winter pubescent annual, 6-16" tall. Usually branched from base. Fall rosette, blooming in spring. First bluebonnet to be named Texas state flower.

Leaves: Alternate, palmately compound. 5 leaflets, wedge shaped, silky pubescent.

Flower: Blue. Terminal raceme, 2-5" long. 5 petals, 2 lipped. Center white, turns purplish with age. 0.2" long pedicels. Unexpanded raceme tip not showy. (*L. texensis* raceme tip has showy, whitish pubescence)  
March-April

Fruit: Silky pod, 1-1.5" long. 5 seeds.

***Lupinus subcarnosus*** Bluebonnet, Shy bluebonnet  
FABACEAE - LEGUMINOSAE Pea family King's Hill, April, 1998 CR Blakley





***Oxalis violacea*** Violet wood-sorrel  
OXALIDACEAE Wood-sorrel family

Peterson & Brown — p66

Ajilvsgi — p179

Niehaus, Ripper & Savage — p298

Tveten & Tveten — p

Correll & Johnston — p895

Shinners & Mahler — p872

Vines — p

Cobb — p

General: Perennial herb, erect to 16". Sandy areas.

Leaves: Long petioled from base, compound, 3 leaflets, bright green, folding at night.

Flower: Violet, 5 petals, to 1 ½" diameter, close at night and in cloudy weather. March-May

Fruit: Capsule, 1/4" long, red seeds.

2X



***Oxalis violacea*** Violet wood-sorrel  
OXALIDACEAE Wood-sorrel family CR Blakley



***Viola triloba*** var. ***dilatata*** Trilobe Violet  
VIOLACEAE Violet family

Peterson & Brown — p76

Ajilvsgi — p202

Niehaus, Ripper & Savage — p378

Tveten & Tveten — p

Correll & Johnston — p1076

Shinners & Mahler — p

Vines — p

Cobb — p

General: Low perennial. Bottomlands

Leaves: Long petioled from rhizome, halberd shaped, 5-7 deep lobes.

Flower: Violet, solitary on long peduncle, usually longer than leaves. March-April.

Fruit: Capsule, numerous brown seeds.



*Viola triloba* var. *dilatata* Trilobe Violet  
VIOLACEAE Violet family Little Jordan, March, 2000 CR Blakley





***Viola walteri*** Walter's violet  
VIOLACEAE Violet family

Peterson & Brown — p76

Ajilvsgi — p200

Niehaus, Ripper & Savage — p378

Tveten & Tveten — p

Correll & Johnston — p1076

Shinners & Mahler — p

Vines — p

Cobb — p

General: Low creeping violet rooting from tips of many branching stems to form large colonies.

Leaves: Round to kidney shaped, deeply notched at stem often purple tinged on lower side.

Flower: Blooms Mar.-Apr. Flowers blue-violet to 1" across on long stems from basal leaves and as plant spreads from leaf joints of elongating branches.

Fruit: Seeds are numerous, brown & tiny.

***Viola walteri*** Walter's violet

VIOLACEAE Violet family Triangle, April, 2000 CR Blakley



***Lythrum lanceolatum*** Lanceleaf loosestrife, Winged loosestrife  
LYTHRACEAE Loosetrife family

Peterson & Brown — p77

Ajilvsgi — p206

Niehaus, Ripper & Savage — p

Tveten & Tveten — p260

Correll & Johnston — p1116

Shinners & Mahler — p802

Vines — p

Cobb — p

General: Erect perennial to 5' tall, branched in upper portion. 4-angled stems. Moist areas.

Leaves: Almost opposite in lower portions, almost alternate in upper portions, lanceolate, to 2" long, ½" wide, much smaller in upper portion.

Flower: Blue, 4-6 spreading petals, ½" diameter, axillary. April-October.

Fruit: Capsule, many seeds.

***Lythrum lanceolatum*** Lanceleaf loosestrife  
LYTHRACEAE Loosestrife family Triangle, June, 1998 CR Blakley





***Eustoma grandiflorum*** Bluebells, Prairie gentian, Texas bluebell, Lira de San Pedro  
GENTIANACEAE Gentian family

Peterson & Brown — p85

Ajilvsgi — p228

Niehaus, Ripper & Savage — p342

Tveten & Tveten — p252

Correll & Johnston — p1208

Shinners & Mahler — p727

Vines — p

Cobb — p

General: Short lived perennial herb. Multiple stems. To 28" tall. Moist fields.

Leaves: Opposite, sessile, 3 veined, clasping, lanceolate, 3" long, 1" wide.

Flower: Usually dark blue. May be white. Single, on long pedicels (2") from upper leaf axils. Fused petals, 5 lobes, 1-1.5" long, at least 3 times longer than tube. June – September

Fruit: 3/4" capsule, many seeds.

***Eustoma grandiflorum*** Bluebells

GENTIANACEAE Gentian family Cullinan Meadow, June, 1997 CR Blakley



***Nemophila phacelioides*** Baby Blue-eyes, Largeflower Nemophila, Texas Blue Eyes,  
Flannel-breeches

HYDROPHYLLACEAE Waterleaf family

Peterson & Brown — p87

Ajilvsgi — p349

Niehaus, Ripper & Savage — p364

Tveten & Tveten — p

Correll & Johnston — p1273

Shinners & Mahler — p742

Vines — p

Cobb — p

General: Erect to sprawling hairy plant to 2' tall, stems often much branched from base. Name from Greek words meaning "lover of a wood or grove," which describes preferred habitat of plant in forest edges often in sandy soil.

Leaves: To 3" long, alternate, stalked, divided into 5-11 segments; many also toothed or lobed. Green to blue-green in color.

Flower: Blooms Mar.-May. Blue to lavender with large white eye. To 1" across, solitary in leaf axils or in clusters at tip of stem. 5 petals, cupped or wide open appearing flat.

Fruit: Seeds are small, black carried in capsule, ¼" in diameter which splits in two when dry.

***Nemophila phacelioides*** Baby Blue-eyes  
HYDROPHYLLACEAE Waterleaf family King's Hill, May, 1998 CR Blakley





***Verbena halei*** Texas Verbena, Texas Vervain, Slender Vervain, Blue Vervain, Candelabra Vervain, Standing Vervain  
VERBENACEAE Verbena family

Peterson & Brown — p89

Ajilvsgi — p246

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1318

Shinners & Mahler — p1056

Vines — p

Cobb — p

General: Multistemmed perennial to 3' high, ascending branches. Sandy soils.

Leaves: Opposite, variable, to 3" long, 1 ½" wide, becoming less toothed and smaller, more feather shaped with shorter petioles towards the top. Mid stem leaves deeply cut.

Flower: Blue, tubular, 5 deep lobes, ¼" diameter, on spike from upper axils. Stamens not exerted.  
February-November.

Fruit: Nutlet, 1 seed.

4X



4X



***Verbena halei*** Texas Verbena  
VERBENACEAE Verbena family King's Hill, April, 2000 CR Blakley



***Verbena xutha*** Tall Verbena, Gulf Vervain, Coarse Vervain  
VERBENACEAE Verbena family

Peterson & Brown — p89

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1320

Shinners & Mahler — p1058

Vines — p

Cobb — p

General: Erect, spindly perennial to 6' high. Sandy soils, roadsides.

Leaves: Opposite, mostly sessile, to 5" long, deeply cut. Stiffly haired on main stem near base.

Flower: Blue, tubular, 5 deep lobes, ¼" diameter. Stamens not exerted. Long whitish appressed hairs on calyx. March-October..

Fruit: Nutlet, 1 seed



blue-28

4X





***Verbena xutha*** Tall Verbena  
VERBENACEAE Verbena family Cullinan Meadow, August, 2000 CR Blakley





***Monarda fistulosa*** Purple Longflower Horse-mint, Wild Bergamot  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p90

Ajilvsgi — p257

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1372

Shinners & Mahler — p765

Vines — p

Cobb — p

General: Erect perennial to 5' tall, often multistemmed. Square stems. Usually not branched except near flower head. Fields.

Leaves: Opposite. Lanceolate. To 4" long, 1 1/2" wide. Hairy on lower surface, sharply toothed.

Flower: Lavender. 1" long, many on single, round terminal head. Flower leaves pink. May-July.

Fruit: Nutlet. 1 seed per nutlet.

4X



***Monarda fistulosa*** Purple Longflower Horse-mint  
LAMIACEAE (LABIATAE) Mint family Cullinan meadow, April, 1998 CR Blakley



***Prunella vulgaris*** Self-heal, Common Selfheal, Carpenter-Weed  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p91

Ajilvsgi — p251

Niehaus, Ripper & Savage — p374

Tveten & Tveten — p257

Correll & Johnston — p1357

Shinners & Mahler — p770

Vines — p

Cobb — p

General: Erect perennial herb to 12" tall. 1 or more square stems. Moist, open woods.

Leaves: Opposite, lanceolate, 2-3" long. Upper leaves sessile, lower leaves basally tapering to short petiole

Flower: Violet. 0.5-1.0" long, 2 lipped, upper arched, lower spreading, 3 lobed. Sessile, in groups of 3 from axils of bract-like floral leaves in compact, 1-2" long spike. April-June

Fruit: Nutlet, dark brown ovoid. 1 seed per nutlet



4X

***Prunella vulgaris*** Self-heal

LAMIACEAE (LABIATAE) Mint family Triangle, April, 1998 CR Blakley





***Salvia lyrata*** Lyreleaf salvia, Lyre-leaf sage, Cancer weed  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p91

Ajilvsgi — p255

Niehaus, Ripper & Savage — p374

Tveten & Tveten — p258

Correll & Johnston — p1366

Shinners & Mahler — p776

Vines — p

Cobb — p

General: Erect, pubescent perennial herb, 1-3' tall. Basal leaves. Solitary, square stem. Sandy open woods.

Leaves: Dark green, petioled, oblong, basal. Spring leaves lyrate-pinnate lobed, to 8" long. Summer leaves purple tinged. Blackish veins.

Flower: Pale blue, sessile, whorled about stem. Smooth, upper lip much smaller than 2-toothed lower. 1-1.5" long. February-May

Fruit: Dark brown nutlet.



4X

***Salvia lyrata*** Lyreleaf salvia

LAMIACEAE (LABIATAE) Mint family Cove, March, 1998 CR Blakley



***Scutellaria parvula*** Small Skullcap

LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p91

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1350

Shinners & Mahler — p779

Vines — p

Cobb — p

General: Small scentless perennial less than 12” tall, in sandy or clay soils, in edge of woods or roadside banks.

Leaves: Opposite, stalked below, stalkless almost touching around the stem in upper part of plant.

Flower: Tiny two lipped blue flowers barely peering around the leaves in whose axils they grow. Mar.-June

Fruit: Tiny scullcaps or tractor seats jutting out from stem where flowers have matured.

***Scutellaria parvula*** Small Skullcap

LAMIACEAE (LABIATAE) Mint family NE Fence, April, 1999 CR Blakley





***Trichostema dichotomum*** Forked Blue-curls, Bastard Pennyroyal  
LAMIACEAE (LABIATAE) Mint family

Peterson & Brown — p91

Ajilvsgi — p249

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1346

Shinners & Mahler — p783

Vines — p

Cobb — p

General: Erect hairy, weedy annual, to 3' tall, much branched. Sandy open woods.

Leaves: Opposite, oblong, to 2 ½" long, 1" wide, tapered to short ½" long petiole.

Flower: Blue, 4-7 on axillary cyme with peduncle to 3" long. 4 stamens protruding well beyond corolla and curled. July-October.

Fruit: Nutlet with 1 seed.

4X



***Trichostema dichotomum*** Forked Blue-curls  
LAMIACEAE (LABIATAE) Mint family Cove, May, 2000 CR Blakley



***Linaria texana*** Texas Blue Toad-flax  
SCROPHULARIACEAE Figwort family

Peterson & Brown — p93

Ajilvsgi — p263

Niehaus, Ripper & Savage — p354

Tveten & Tveten —

Correll & Johnston — p1426

Shinners & Mahler — p1004 (*Nuttalanthus texanus*)

Vines — p

Cobb — p

General: Erect annual or winter biennial herb. Short, prostrate, sterile branches at base. To 24" high. Sandy fields and pinelands.

Leaves: Alternate, sessile, narrowly linear, sparse, 1-1.5" long.

Flower: Light violet, 0.5-0.8" long plus spur. Irregular corolla, spurred. On terminal raceme to 12" long. 4 Stamens. February-May

Fruit: Capsule, 0.1-0.2" long. Many seeds.

***Linaria texana*** Texas Blue Toad-flax  
SCROPHULARIACEAE Figwort family Martin Flat, April, 1998 CR Blakley





***Ruellia humilis*** Hairy ruellia, Low ruellia, Wild petunia, Prairie-petunia, Fringe-leaf  
Petunia

ACANTHACEAE Acanthus family

Peterson & Brown — p94

Ajilvsgi — p273

Niehaus, Ripper & Savage — p372

Tveten & Tveten — p227

Correll & Johnston — p1465

Shinners & Mahler — p216

Vines — p

Cobb — p

General: Beginning upright, eventually sprawling perennial, hairy. Dry soils, sandy or clay. Open places or partly shady.

Leaves: Opposite, 3 1/8" long, 1 3/4" wide, stalkless. Blade leathery, blunt or wedge shaped at base, hairy.

Flower: Lavender to blue, trumpet shaped, 5 lobed at rim. April-September.

Fruit: Capsule, hairy, 1/4" long, 2 seeds.

4X



blue-42

***Ruellia humilis*** Hairy ruellia  
ACANTHACEAE Acanthus family Triangle, June, 1999 CR Blakley



***Hedyotis crassifolia*** Violet Bluet, Small Bluets, Star-violet  
RUBIACEAE Madder family

Peterson & Brown — p96

Ajilvsgi — p276

Niehaus, Ripper & Savage — p

Tveten & Tveten — p274

Correll & Johnston — p1490

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect annual to 5" tall, often in dense colonies. Fields.

Leaves: Opposite, short petioles, spatulate, to ½" long, 1/4" wide.

Flower: Blue , solitary, terminal, trumpet shaped, longer than sepals, 4 lobes, stamens not exerted. February-April.

Fruit: Capsule, minute seeds.

4X



blue-44

***Hedyotis crassifolia*** Violet Bluet

RUBIACEAE Madder family Cove, January, 2000 CR Blakley





***Lobelia appendiculata*** Earflower Lobelia, Eared Lobelia  
CAMPANULACEAE Bluebell Family

Peterson & Brown — p98

Ajilvsgi — p282

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1520

Shinners & Mahler — p498

Vines — p

Cobb — p

General: Erect to spreading, smooth (glabrous) annual or biannual to 3' tall, unbranched. Most lobelias contain alkaloids and are extremely poisonous.

Leaves: Alternate, unstalked (sessile) sometimes clasping. Leaf blade thin lanceolate to oblong 1-3½" long, ¼" wide, rounded or sharp pointed tip.

Flower: Bloomstalk (Inflorescence) of many flowers, subtended by bracts, stalked (pedicelled) top of plant to 15" long. Pale lilac or bluish-white flowers. Flowers 2-lipped, tubular. Apr-June.

Fruit: Capsule, sometimes nodding, seeds many, rough.



blue-46

***Lobelia appendiculata*** Earflower Lobelia  
CAMPANULACEAE Bluebell Family Triangle, July, 2001 CR Blakley



***Lobelia puberula*** Downy Lobelia, Purple Dewdrop  
CAMPANULACEAE Bluebell Family

Peterson & Brown — p(addendum)

Ajilvsgi — p283

Niehaus, Ripper & Savage — p376

Tveten & Tveten — p238

Correll & Johnston — p1521

Shinners & Mahler — p498

Vines — p

Cobb — p

General: Erect perennial to 4' tall, usually shorter, usually unbranched. Stem has stiff hairs. Moist areas.

Leaves: Alternate, sessile, oblong, to 5" long, 1 ½" wide, variably tipped and toothed.

Flower: Blue, numerous on dense terminal raceme to 20" long. 2 lipped corolla to 1" long. Upper lip narrow, deeply lobed. Lower lip 3 lobed and broad. August-December.

Fruit: Capsule, to 1/4" long, many seeds.

4X



blue-48

4X



***Lobelia puberula*** Downy Lobelia  
CAMPANULACEAE Bluebell Family Hully Gully, September, 1999 CR Blakley





***Triodanis perfoliata*** Clasping Venus-looking-glass, Hen-and-chickens  
CAMPANULACEAE Bluebell Family

Peterson & Brown — p99

Ajilvsgi — p281

Niehaus, Ripper & Savage — p370

Tveten & Tveten — p240

Correll & Johnston — p1517

Shinners & Mahler — p501

Vines — p

Cobb — p

General: Erect perennial to 20" tall, usually unbranched. Disturbed areas.

Leaves: Alternate, sessile, clasping, almost round to 1" diameter, notched at base, usually toothed.

Flower: Purple, to 3/4" across, 5 deep lobes, leaflike bracts.

Fruit: Capsule, to 3/8" long, many seeds.

4X



blue-50

***Triodanis perfoliata*** Clasping Venus-looking-glass  
CAMPANULACEAE Bluebell Family Cullinan Meadow, May, 1999 CR Blakley



***Aster texanus*** Texas Aster

ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p103

Ajilvsgi — p296

Niehaus, Ripper & Savage — p104 (*Aster sp.*)

Tveten & Tveten — p230 (*A. subulatus*)

Correll & Johnston — p1595

Shinners & Mahler — p318 (*A. drummondii var texanus*)

Vines — p

Cobb — p

General: Erect perennial herb from rhizomes, to 30" tall. Many branches, with short, head bearing branchlets. Open woods, fields.

Leaves: Alternate, heart shaped, to 6" long, 3" wide, winged petiole. Become brittle.

Flower: Bluish. Radiate. Ray flowers blue tinged. October-November.

Fruit: Achene.



***Aster texanus*** Texas Aster

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, July, 2001 CR Blakley





***Elephantopus carolinianus*** Leafy Elephant-foot, Leafy Elephantopus  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p285 (*E. nudatus*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p231

Correll & Johnston — p1538

Shinners & Mahler — p348

Vines — p

Cobb — p

General: Erect perennial, to 3' tall, leaves along stem. Sandy woods.

Leaves: Alternate, elliptical, to 7" long, 4" wide.

Flower: Bluish, discoid heads clustered above 3 triangular bracts, ½" long. Late summer, fall.

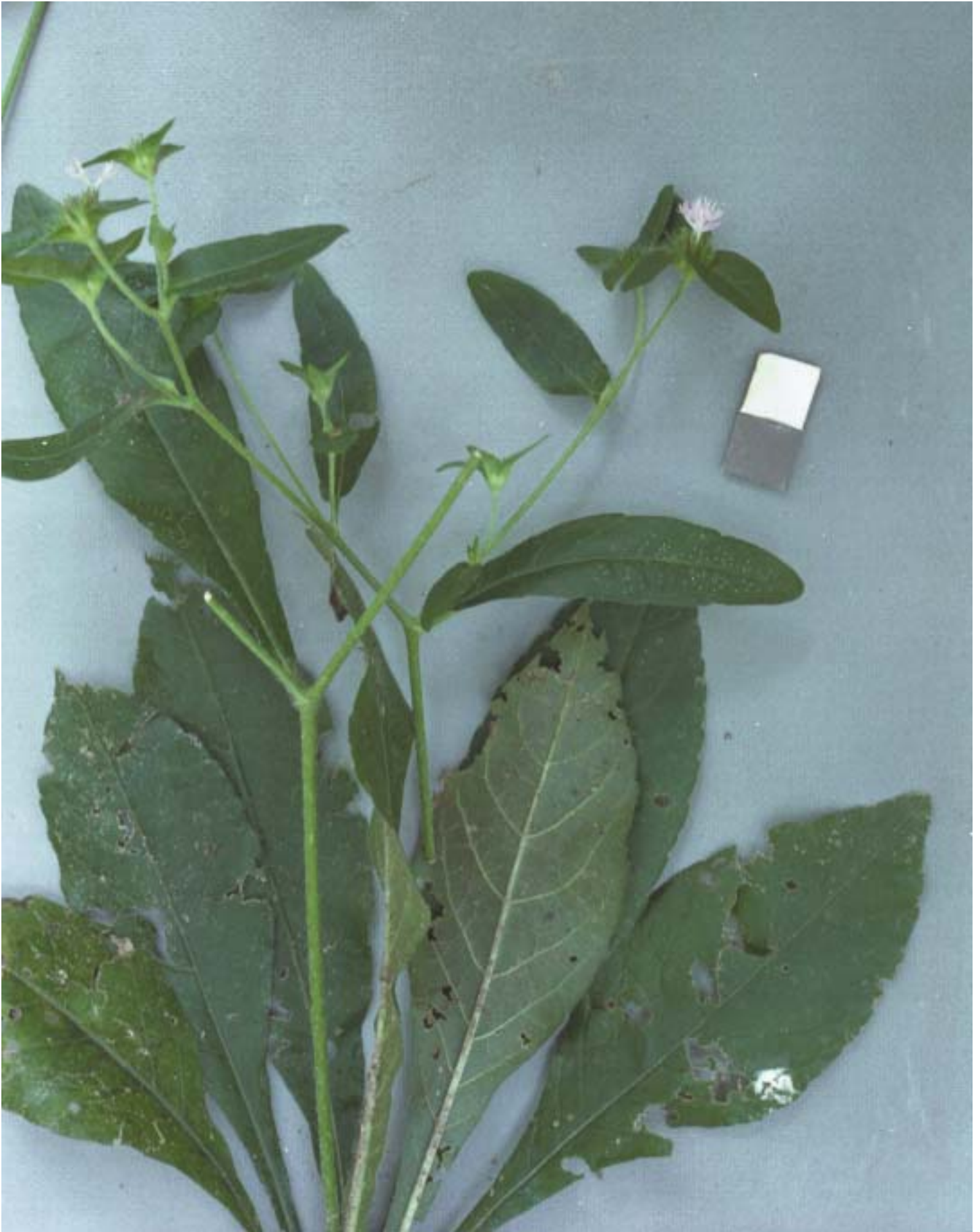
Fruit: Achene, 5 lobes.

4X



blue-54

*Elephantopus carolinianus* Leafy Elephant-foot  
ASTERACEAE (COMPOSITAE) Sunflower family Cove, August, 2000 CR Blakley



***Elephantopus tomentosus*** Hairy Elephant-foot, Tobacco-weed, Devil's-Grandmother  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p104

Ajilvsgi — p285 (*E. nudatus*)

Niehaus, Ripper & Savage — p

Tveten & Tveten — p231

Correll & Johnston — p1538

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial, to 3' tall. Sandy woods.

Leaves: Alternate, basal rosette, often flat on ground, elliptical, to 9" long. Stem leaves absent.

Flower: Bluish, discoid heads clustered above bracts, about as long as wide. Late summer, fall.

Fruit: Achene, 5 lobes.



4X





***Elephantopus tomentosus*** Hairy Elephant-foot  
ASTERACEAE (COMPOSITAE) Cascades, September, 1999 CR Blakley





***Eupatorium coelestinum*** Blue Mistflower, Blue Boneset  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p105

Ajilvsgi — p290

Niehaus, Ripper & Savage — p

Tveten & Tveten — p232

Correll & Johnston — p1555

Shinners & Mahler — p353

Vines — p

Cobb — p

General: Erect perennial to 3' tall. Moist woods.

Leaves: Opposite, broadly lanceolate, to 3" long, 2" wide, toothed, petiole to 1" long. Minutely resin dotted.

Flower: Blue. Discoid in flat topped cluster. July-December.

Fruit: Achene. 5 ribs, black.

4X



blue-58

*Eupatorium coelestinum* Blue Mistflower  
ASTERACEAE (COMPOSITAE) Sunflower family Entrance Road, August, 1999 CR Blakley



***Liatris acidota*** Slender Gayfeather , Sharp Gayfeather  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p108

Ajilvsgi — p286

Niehaus, Ripper & Savage — p334

Tveten & Tveten — p234

Correll & Johnston — p1541

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect, slender, perennial herb. To 30" tall. Prefers standing water.

Leaves: Narrowly linear, grasslike, stem hugging, 8-16" long, 0.3" wide

Flower: Pink. Heads numerous, loosely on 4-8" long spike, 3-5 flowers per head, blooming downward from tip. July-December.

Fruit: Achene



4X

blue-60



***Liatris acidota*** Slender Gayfeather  
ASTERACEAE (COMPOSITAE) Sunflower family Triangle, August, 2000 CR Blakley





***Liatris pycnostachya*** Prairie Gayfeather, Kansas Gayfeather, Hairy Button-snakeroot  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p109

Ajilvsgi — p287

Niehaus, Ripper & Savage — p334 (*L. acidota*)

Tveten & Tveten — p236

Correll & Johnston — p1541

Shinners & Mahler — p384

Vines — p

Cobb — p

General: Erect perennial to 5' tall, unbranched, stiffly haired. Sandy open wet areas.

Leaves: Alternate, sessile, linear to 4" long, ¼" wide, gland dotted, get smaller up the stem.

Flower: Lavender, discoid, numerous on terminal spike to 20" long, opening downward, 1 to ½" wide, 1 ¼" long, phyllaries recurved. June-October.

Fruit: Achene, ribbed, tapered cylinder.

4X



blue-62

***Liatris pycnostachya*** Prairie Gayfeather  
ASTERACEAE (COMPOSITAE) Sunflower family Triangle, August, 2000 CR Blakley





# Plants with Green flowers



***Sabal minor*** Dwarf palm, Dwarf palmetto, Bush palmetto, Blue palm, Swamp palm  
ARECACEAE (PALMAE) Palm family

Peterson & Brown — p37

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p340

Shinners & Mahler — p1094

Vines — p

Cobb — p

General: Erect evergreen perennial, usually without trunk, fan like leaves, to 4' tall, bottomlands

Leaves: Deeply cut fan, to 5' wide, on long petiole

Flower: On panicle from separate stalk, 3 green or brown petals.

Fruit: Black, ½" diameter

***Sabal minor*** Dwarf palm

ARECACEAE (PALMAE) Palm family Cascades, March, 2001 CR Blakley





***Typha domingensis*** Narrow-leaf Cat-tail, Southern Cat-tail  
TYPHACEAE Cat-tail family

Peterson & Brown — p37

Ajilvsgi — p

Niehaus, Ripper & Savage — p406

Tveten & Tveten — p295 (*Typha* sp)

Correll & Johnston — p85

Shinners & Mahler — p1348

Vines — p

Cobb — p

General: Erect grass-like wetland perennial 6-9' tall.

Leaves: Pale green, ½ to 1" wide, usually shorter than flower spike

Flower: Sausage like, with gap between pistillate and staminate portions. Stamens soon withering

Fruit: Minute nutlet, wind dispersed



green-4

***Typha domingensis*** Narrow-leaf Cat-tail  
TYPHACEAE Cat-tail family Wetlands, June, 2000 CR Blakley





***Smilax bona-nox*** Saw Greenbriar,, Cat briar, Zarzaparilla, Fiddle-leaf Greenbriar, Stretchberry, China briar, Bull briar, Fringed Greenbriar

LILIACEAE Lily family

Peterson & Brown — p41

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p411

Shinners & Mahler — p1346

Vines — p72

Cobb — p

General: Woody, prickly, deciduous, perennial vine. Prickles broad based and rigid, often dark tipped. Open woods and pastures.

Leaves: Highly variable, oval or broad base, to 6" long, 1" long stem. Prominent mid vein

Flower: February to June

Fruit: Black berry, ¼" diameter.

***Smilax bona-nox*** Saw Greenbriar  
LILIACEAE Lily family Cullinan Meadow, July, 2001 CR Blakley



***Smilax glauca*** Cat Greenbriar, Cat briar, Wild Sarsaparilla, Glaucus-leaf Greenbriar, Sarsaparilla vine, Sowbriar

LILIACEAE Lily family

Peterson & Brown — p41

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p411

Shinners & Mahler — p1346

Vines — p77

Cobb — p

General: Woody, prickly, perennial vine. Prickles scattered and slender. Sandy woods and along streams.

Leaves: Oval to 6" long 4" wide, whitish underneath.

Flower: May to June

Fruit: Blue berry.

***Smilax glauca*** Cat Greenbriar  
LILIACEAE Lily family Enchanted Isle, July, 2001 CR Blakley





***Smilax pumila*** Dwarf Greenbriar, Sarsaparilla vine  
LILIACEAE Lily family

Peterson & Brown — p41

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p411

Shinners & Mahler — p

Vines — p72

Cobb — p

General: Woody, not prickly, perennial trailing or low climbing vine. Hairy stems. Stream banks.

Leaves: Oval to 6" long 4" wide, bluntly pointed, furry underneath.

Flower: Fall

Fruit: Red berry, ¼" diameter, ripening in spring.

***Smilax pumila*** Dwarf Greenbriar  
LILIACEAE Lily family Cascades, March, 2001 CR Blakley



***Smilax smallii*** Lanceleaf Greenbriar, Small's Greenbriar  
LILIACEAE Lily family

Peterson & Brown — p41

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p412

Shinners & Mahler — p1346

Vines — p

Cobb — p

General: Woody, only prickly near bottom, evergreen perennial often high climbing vine. Woodlands.

Leaves: Lanceolate, to 5" long, 2" wide. All borne on side branches

Flower: May to June.

Fruit: Berry, ¼" diameter.

***Smilax smallii*** Lanceleaf Greenbriar  
LILIACEAE Lily family Cove, May, 2000 CR Blakley





***Corallorhiza wisteriana*** Spring Coral-root, Wister's Coralroot  
ORCHIDACEAE Orchid family

Peterson & Brown — p43

Ajilvsgi — p131

Niehaus, Ripper & Savage — p230

Tveten & Tveten — p

Correll & Johnston — p447

Shinners & Mahler — p1215

Vines — p

Cobb — p

General: Erect, succulent perennial to 16" tall from pink rhizome. No chlorophyll at any time. Whole plant reddish brown in color

Leaves: Small, sheathing scales, alternate along the stem.

Flower: Few to several nodding in loose terminal raceme. Greenish yellow tinged with purplish brown.  
Flower parts (petals, sepals) in threes. Lip white with magenta spots. Feb.-May

Fruit: Ovoid capsule, nodding less than ½" long. Seeds numerous, minute



***Corallorhiza wisteriana*** Spring Coral-root  
ORCHIDACEAE Orchid family Wilderness Trail, March, 2001 CR Blakley



***Listera australis*** Southern Twayblade  
ORCHIDACEAE Orchid family

Peterson & Brown — p43

Ajilvsgi — p126

Niehaus, Ripper & Savage — p394

Tveten & Tveten — p

Correll & Johnston — p438

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial, single, purplish stem, 6-12" tall, moist sandy woods.

Leaves: Two above mid stem, opposite, sessile, oval, 1½" long

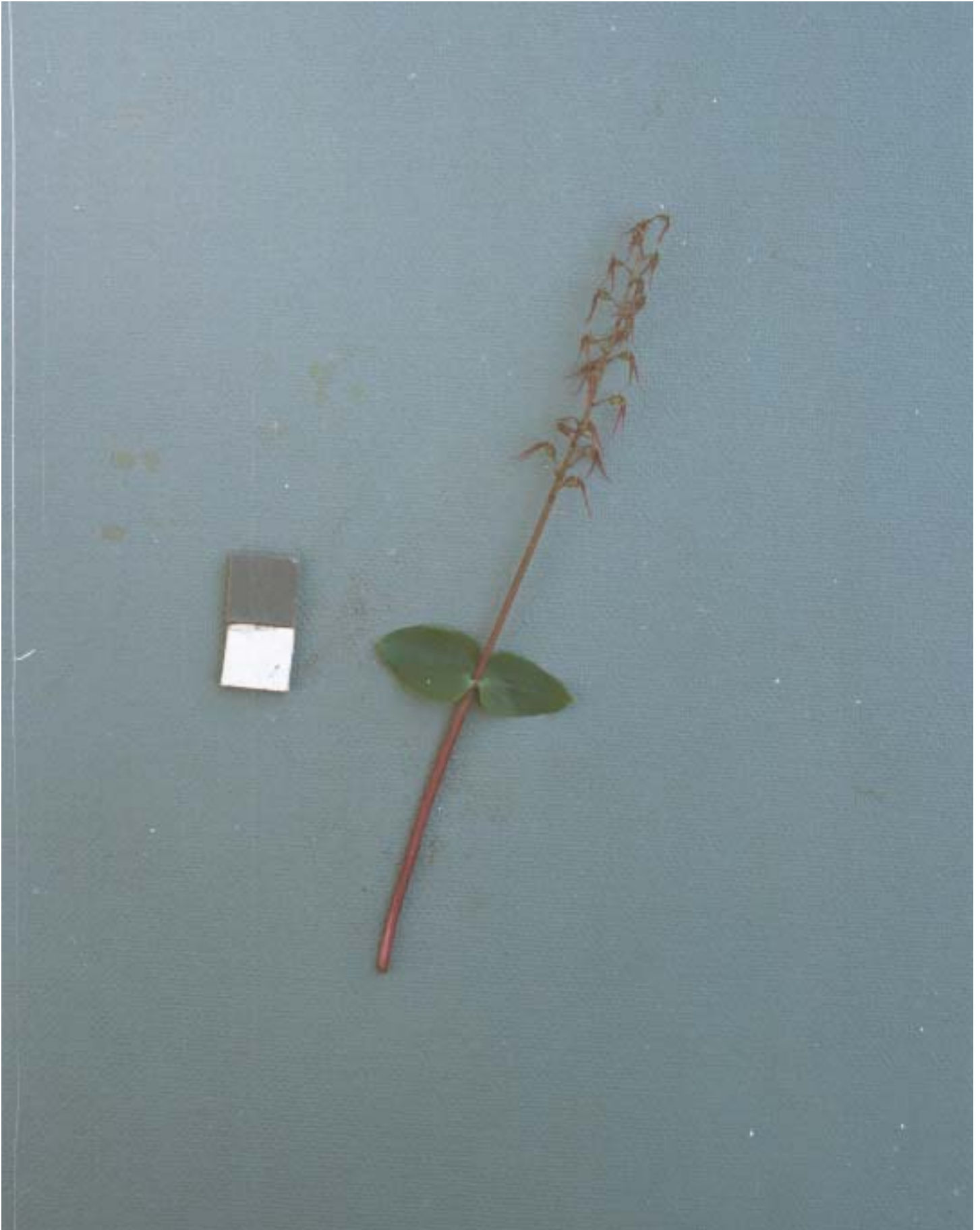
Flower: Raceme to 4" long at top of stem, greenish purple, bottom lip deeply cut, resembling snake tongue

Fruit: Capsule with minute seeds



2X

*Listera australis* Southern Twayblade  
ORCHIDACEAE Orchid family Dillo Wallow, March, 2001 CR Blakley





***Tipularia discolor*** Crippled Cranefly  
ORCHIDACEAE Orchid family

Peterson & Brown — p44

Ajilvsgi — p130

Niehaus, Ripper & Savage — p230

Tveten & Tveten — p

Correll & Johnston — p445

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial, leafless when in bloom, usually with Beech trees, to 24" tall

Leaves: Solitary, fall through winter, green above, purple below, lanceolate, to 4" long, conspicuously veined, withering before flowering

Flower: Scape brownish, 5-10" long raceme, drooping greenish yellowish flowers, ½" wide. July-August

Fruit: Persistent capsule, numerous seeds

4X



green-18

***Tipularia discolor*** Crippled Crane-fly  
ORCHIDACEAE Orchid family Cascades, March and August, 2001 CR Blakley



***Tipularia discolor*** Crippled Crane-fly  
ORCHIDACEAE Orchid family Cascades, March and August, 2001 CR Blakley



***Tipularia discolor*** Crippled Crane-fly  
ORCHIDACEAE Orchid family Cascades, March and August, 2001 CR Blakley





***Boehmeria cylindrica*** False Nettle, Bog Hemp, Button Hemp  
URTICACEAE Nettle family

Peterson & Brown — p49

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p500

Shinners & Mahler — p1042

Vines — p

Cobb — p

General: Erect perennial, non-stinging, to 3 ½' tall, wet areas.

Leaves: Usually opposite, broadly lanceolate, toothed, to 6" long, petioles as long as leaves,.

Flower: Axillary, greenish, clustered on leafless branches, spike-like.

Fruit: Flattened, minutely winged, less than 1/8" wide.

4X



***Boehmeria cylindrica*** False Nettle  
URTICACEAE Nettle family NE Delta, August, 2000 CR Blakley



***Polygonum virginianum*** Jumpseed  
POLYGONACEAE Knotweed family

Peterson & Brown — p addendum

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p522

Shinners & Mahler — p905

Vines — p

Cobb — p

General: Erect or drooping annual, to 3 ½' tall, rich woodlands, stream bottoms.

Leaves: Alternate, lanceolate, to 6" long.

Flower: Greenish white, terminal on long spikelike. July – October.

Fruit: Biconvex achene, ¼" long, with 2 hooked styles



4X

***Polygonum virginianum*** Jumpseed  
POLYGONACEAE Knotweed family NE Delta, August, 2000 CR Blakley





***Phytolacca americana*** Pokeweed, Pokeberry, Inkberry, Poke  
PHYTOLACACEAE Pokeweed family

Peterson & Brown — p51

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p77

Correll & Johnston — p601

Shinners & Mahler — p881

Vines — p

Cobb — p

General: Large robust plant, to 10' tall, but can get much larger in ideal conditions (moist, swampy). Stems reddish/purple, in many branches. Country folks picked the young greens of this plant and cooked them as greens known as "poke sallet."

Leaves: Luxuriant, pointed to 10" long. Leaves alternate or almost whirled around stems.

Flower: Blooms July-Oct. or earlier. Small, 1/4" green to pink petal like sepals borne in long 8-10" racemes.

Fruit: Seeds are borne in drooping clusters of grape-like, dark purple berries. Attractive to birds; may be toxic to humans

4X



green-26

*Phytolacca americana* Pokeweed  
PHYTOLACACCEAE Pokeweed family Cove, July, 1998 CR Blakley



***Thalictrum dasycarpum*** Meadow-rue, Purple Meadow-rue  
RANUNCULACEAE Buttercup family

Peterson & Brown — p53

Ajilvsgi — p140

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p635

Shinners & Mahler — p930

Vines — p

Cobb — p

General: Erect perennial, stem often purplish, branched, to 6' high. Damp thickets.

Leaves: Alternate, compound, multiple leaflets, lobed, to 2" long, 1 ½" wide, prominently veined.

Flower: Greenish, no petals, unisexual, on terminal panicle. March to July.

Fruit: Achene, to ¼" long





*Thalictrum dasycarpum* Meadow-rue  
RANUNCULACEAE Buttercup family Cove, April, 2000 CR Blakley





***Euphorbia spathulata*** Warty Spurge  
EUPHORBIACEAE Spurge family

Peterson & Brown — p69

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p964

Shinners & Mahler — p608

Vines — p

Cobb — p

General: Erect annual to 3' tall, several stems from base with few branches, milky sap, prairies

Leaves: Alternate at bottom, opposite to whorled at top, sessile, spatulate, to 1" long, ½" wide.

Flower: Greenish, numerous, no petals, 1 pedicelled pistil with warty ovary. Spring

Fruit: Warty capsule, 3 seeds.

4X



green-30

***Euphorbia spathulata*** Warty Spurge  
EUPHORBIACEAE Spurge family Cullinan Meadow, August, 2001 CR Blakley



***Sebastiania fruticosa*** Sebastian-bush, Candleberry, False Gum  
EUPHORBIACEAE Spurge family

Peterson & Brown — p69

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p951

Shinners & Mahler — p

Vines — p622 (*S. ligustrina*)

Cobb — p

General: Shrub to 12' tall, irregularly branched, sandy stream banks.

Leaves: Alternate, oval, pointed tip, to 3" long, 1 ½" wide, ½" petiole, lower surface lighter, prominent main vein, fall color.

Flower: Yellowish green, inconspicuous on terminal spike, male flowers above, female flowers below. April-August

Fruit: Capsule on ½" long peduncle, 3 seeds.

1X in fruit





***Sebastiania fruticosa*** Sebastian-bush  
EUPHORBIACEAE Spurge family Enchanted Isle, June, 1997 CR Blakley





***Euonymus americanus*** Strawberry-bush, Bursting-heart, Fish-wood  
CELASTRACEAE Staff-tree family

Peterson & Brown — p71  
Ajilvsgi — p188  
Niehaus, Ripper & Savage — p  
Tveten & Tveten — p  
Correll & Johnston — p999  
Shinners & Mahler — p528  
Vines — p660  
Cobb — p

General: Usually evergreen shrub to 6', sprawling slender branches, moist woods.

Leaves: Opposite, simple, sessile, oblong with sharp tip, to 4" long, 1" wide.

Flower: Greenish, axillary on 1/2" peduncles, 1/2" diameter, 5 petals. May-June.

Fruit: Capsule, splits to expose bright red seed covering (aril), 3-5 lobes. September-October.



4X

2X Fruit



4X

*Euonymus americanus* Strawberry-bush  
CELASTRACEAE Staff-tree family Enchanted Isle, 1999 CR Blakley



***Berchemia scandens*** Rattan-vine, Alabama Supplejack  
RHAMNACEAE Buckthorn Family

Peterson & Brown — p72

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1012

Shinners & Mahler — p931

Vines — p688

Cobb — p

General: Deciduous, high climbing woody twining vine. Moist soils

Leaves: Alternate, Simple, to 3" long, 1 1/2" wide, 1/4' petioles, depressed top parallel veins.

Flower: Greenish, 5 petals, in terminal clusters. March-June

Fruit: Black drupe, 1/4" long. July-October



***Berchemia scandens*** Rattan-vine  
RHAMNACEAE Buckthorn Family Cullinan Meadow, July, 2001 CR Blakley





***Ampelopsis arborea*** Pepper-vine, Cow vine, Wild-sarsaparilla  
VITACEAE Grape family

Peterson & Brown — p72

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1022

Shinners & Mahler — p1066

Vines — p708

Cobb — p

General: Deciduous climbing vine, thin stems. Moist woods.

Leaves: Alternate, compound, to 8" long, bipinnate, leaflets ½-1 ½" long, toothed, lighter below.

Flower: Greenish, small, 5 petals, on ½" peduncle. June-July.

Fruit: Black, ¼" long, clustered.

1X Fruit



***Ampelopsis arborea*** Pepper-vine  
VITACEAE Grape family Dillo Wallow, May, 2001 CR Blakley



***Parthenocissus quinquefolia*** Virginia creeper, Hiedra, Parra  
VITACEAE Grape family

Peterson & Brown — p72

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1022

Shinners & Mahler — p1068

Vines — p711

Cobb — p

General: Woody, climbing vine. Tendrils have adhesive disks.

Leaves: Alternate, deciduous, palmately compound. 5 leaflets distinctly stemmed. To 6" long, 2" wide.  
Coarsely toothed, elliptical.

Flower: Greenish, inconspicuous. 200 or more on pannicle from lower branch. May-July

Fruit: Berry. Dark blue. 0.3" diameter. 1-3 seeds.



***Parthenocissus quinquefolia*** Virginia creeper  
VITACEAE Grape family Dillo Wallow, April, 1998 CR Blakley





***Vitis aestivalis*** Summer grape, Pigeon grape, Bunch grape  
VITACEAE Grape family

Peterson & Brown — p73

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1018

Shinners & Mahler — p1070

Vines — p712

Cobb — p

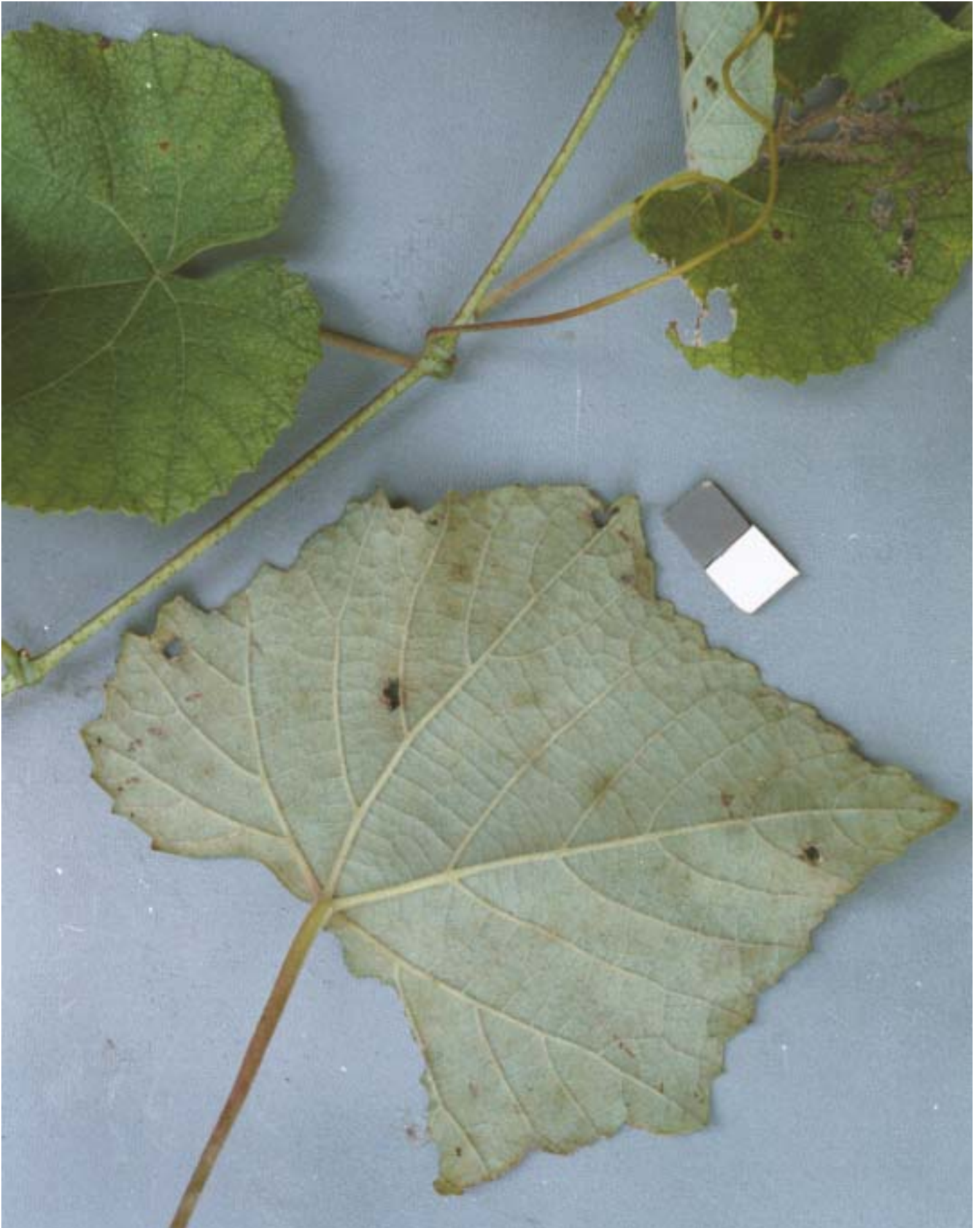
General: Perennial high climbing vine. Dry, sandy woods.

Leaves: Alternate, simple, variable shape, usually 3-5 lobes, no teeth at bottom of lobe, 2-8" long. Young leaves reddish on upper surface. Forked tendrils.

Flower: Greenish, on 2-6" panicle, fragrant. May-July.

Fruit: September-October, ½" diameter, dark blue-black.

***Vitis aestivalis*** Summer grape  
VITACEAE Grape family King's Hill, July, 2001 CR Blakley



***Vitis cinerea*** Sweet Winter grape, Graybark Grape, Parra Silvestre, Downy Grape  
VITACEAE Grape family

Peterson & Brown — p73

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1018

Shinners & Mahler — p1070

Vines — p717

Cobb — p

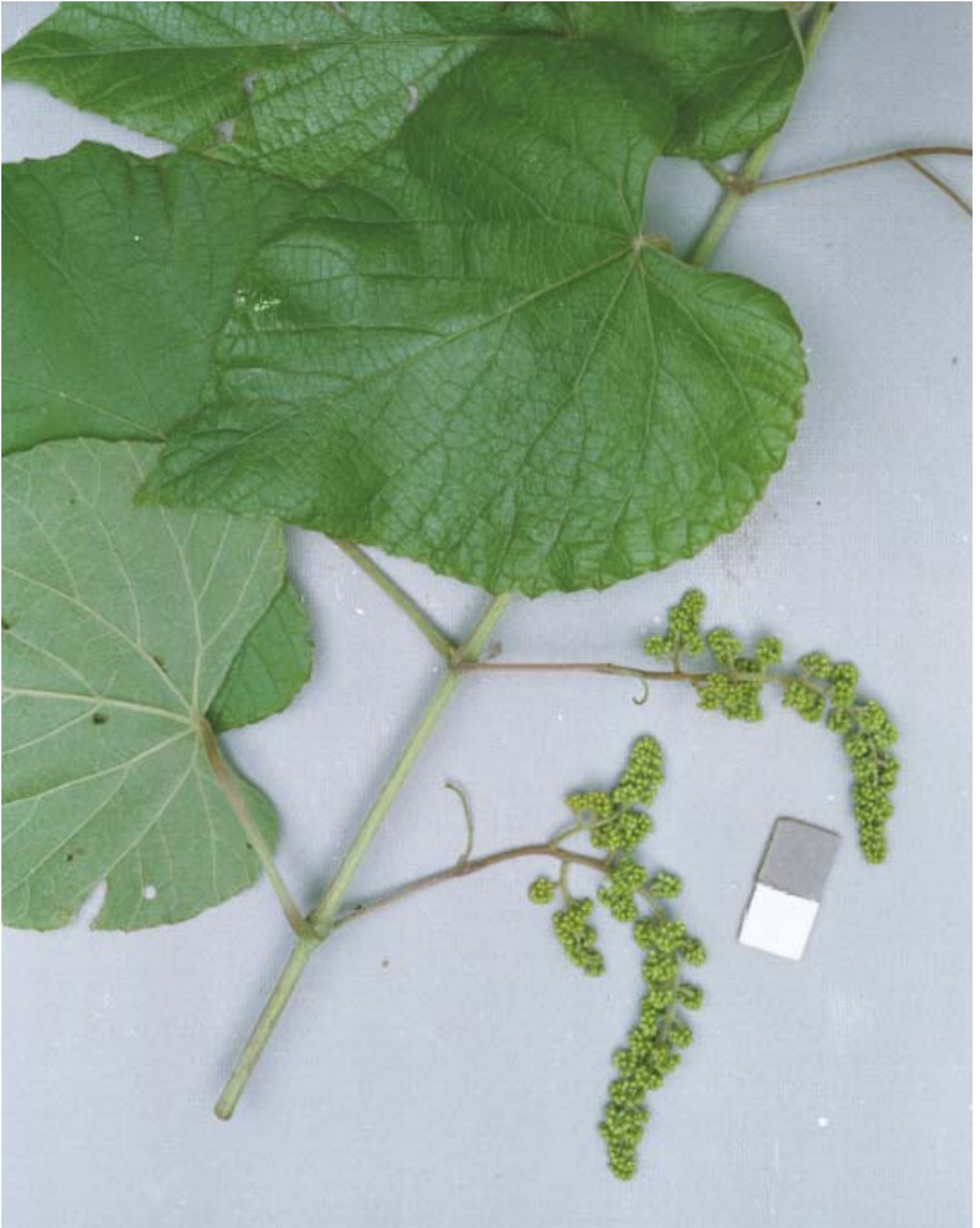
General: Perennial high climbing vine. Bottom lands.

Leaves: Alternate, simple, round, usually not lobed, or 2-4 shallow, teeth at bottom of lobe, 4-8" long.  
Young leaves downy on upper surface. Forked tendrils.

Flower: Greenish, on compact panicle, 4-5" long peduncle. May-June.

Fruit: August-November, 1/3" diameter, purple-black.

***Vitis cinerea*** Sweet Winter grape  
VITACEAE Grape family Entrance Road, Auguat, 1999 CR Blakley





***Vitis rotundifolia*** Muscadine Grape, Southern Fox Grape, Bullace Grape, Bull Grape, Scuppernong, Bullet Grape  
VITACEAE Grape family

Peterson & Brown — p73

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1018

Shinners & Mahler — p1072

Vines — p727

Cobb — p

General: Perennial high climbing vine. Bottom lands.

Leaves: Alternate, simple, heart shaped, pointed tip, usually 3" long. Tendrils not forked. Bark not shredded like other grapes.

Flower: Greenish, on compact panicle, 4-5" long peduncle. May-June.

Fruit: July-September, ½-1" diameter, purple-black. Drop singly as ripen.

***Vitis rotundifolia*** Muscadine Grape  
VITACEAE Grape family Cove, August, 2000 CR Blakley



***Asclepias viridus*** Green milkweed, Antelope-horn  
ASCLEPIADACEAE Milkweed family

Peterson & Brown — p86

Ajilvsgi — p231

Niehaus, Ripper & Savage — p304

Tveten & Tveten — p287

Correll & Johnston — p1223

Shinners & Mahler — p282

Vines — p

Cobb — p

General: Perennial 2-3' tall, usually upright, solitary stem, stout, unbranching with milky sap. Found in many locations and soils in Houston. Often seen in vacant lots and roadside ditches.

Leaves: 2-5" long, 3/8 to 2 3/8" wide, short stalked and thick, yellowish green.

Flower: Small pale green flowers with purple centers in rounded clusters 3-4" across at tip of stalks and in upper leaf joints (axils). Blooms Mar.-Sept.

Fruit: Oval pod containing seeds with silky white fluff attached Fluff once carded and spun to make candle wicks





***Asclepias viridus*** Green milkweed  
ASCLEPIADACEAE Milkweed family Cullinan meadow, June, 1998 CR Blakley





***Plantago virginica*** Pale seeded plantain, Dwarf Plantain, Hoary Plantain  
PLANTAGINACEAE Plantain family

Peterson & Brown — p95

Ajilvsgi — p

Niehaus, Ripper & Savage — p386

Tveten & Tveten — p

Correll & Johnston — p1477

Shinners & Mahler — p886

Vines — p

Cobb — p

General: Annual with a slender taproot. Grows in any sunny location, statewide.

Leaves: Obovate to oblanceolate (not round) narrowing toward the base into a short stem (petiole), a few with inconspicuous teeth. Leaves parallel veined, basal.

Flower: On scapes to 18" (45cm.) long, on spikes of tiny white flowers with a 4 parted corolla. March-May.

Fruit: Capsule, as long as calyx lobes, 2 seeds.



4X

***Plantago virginica*** Pale seeded plantain  
PLANTAGINACEAE Plantain family Cullinan Meadow, May, 1999 CR Blakley



***Plantago rhodosperma*** Red seeded plantain

PLANTAGINACEAE Plantain family

Peterson & Brown — addendum

Ajilvsgi — p

Niehaus, Ripper & Savage — p396

Tveten & Tveten — p

Correll & Johnston — p1477

Shinners & Mahler — p886

Vines — p

Cobb — p

General: Annual with slender taproot. Usually on rocky soils, in brushlands and on slopes occasionally in sandy soils and on gravel bars of washes and streams, almost entirely west of Blackland Prairies.

Leaves: Parallel veined, basal. (Narrowest point at base), (Oblanceolate), Wedge shaped long-cuneate) at base, blunt (obtuse) to pointed (acute) at tip (apex), to 35 cm. long and 5 cm. wide, grayish-green. Pubescent, entire to coarsely pectinate or salient-dentate.

Flower: spikes to about 8" (2 cm.), long and less than ½" (1 cm.) thick. Bracts lanceolate floral segments similar to *P. virginica*.

Fruit: Two, bright red to reddish-black, about ¼" (2-3mm.) long and more than half as wide, nearly flat on both sides, with a thin pale margin.

*Plantago rhodosperma* Red seeded plantain  
PLANTAGINACEAE Plantain Family Cullinan Meadow, 1999 CR Blakley





***Iva angustifolia*** Narrowleaf Sumpweed, Marsh-elder  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p108

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1628

Shinners & Mahler — p378

Vines — p

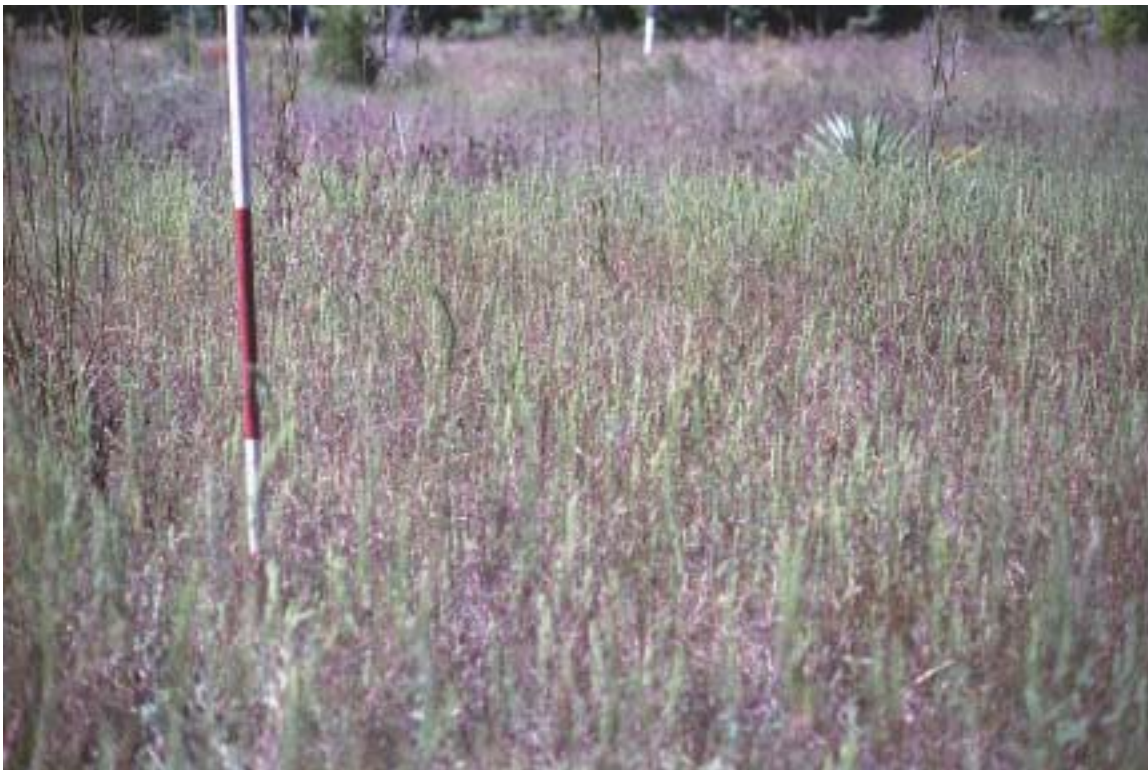
Cobb — p

General: Erect annual, much branched, to 3' tall. Moist areas.

Leaves: Opposite below, becoming alternate, lanceolate, 2" long, 1/2" wide.

Flower: Greenish, discoid, sessile heads axillary. Late summer to fall.

Fruit: Achene, black, 1/16" long.



***Iva angustifolia*** Narrowleaf Sumpweed

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 2001 CR Blakley



***Iva annua*** Marsh-elder, Pelocote, Sea-coast Sumpweed  
ASTERACEAE (COMPOSITAE) Sunflower family

Peterson & Brown — p108

Ajilvsgi — p

Niehaus, Ripper & Savage — p402

Tveten & Tveten — p

Correll & Johnston — p1628

Shinners & Mahler — p378

Vines — p

Cobb — p

General: Erect annual, much branched, to 6 tall. Moist areas.

Leaves: Opposite, oval, 6" long, petioled.

Flower: Greenish, discoid, sessile heads on spike with heart shaped bracts. Late summer to fall.

Fruit: Achene, black, 1/16" long.





*Iva annua* Marsh-elder

ASTERACEAE (COMPOSITAE) Sunflower family Cullinan Meadow, September, 2001 CR Blakley







# Ferns, Grasses, Trees

***Botrychium dissectum*** Cutleaf Grape-fern  
OPHIOGLOSSACEAE Adder's Tongue family

Peterson & Brown — p20

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p43

Shinners & Mahler — p

Vines — p

Cobb — p186

General: Medium size, highly variable, succulent fern

Leaves: To 3 ft long, succulent, sterile, triangular, 3 or more cuts. Leaflets usually pointed, may be toothed, serrated, or lacy

Flower: Sporophyll on separate stalk. Light yellow spore cases. Sporiferous in fall

***Botrychium dissectum*** Cutleaf Grape-fern  
OPHIOGLOSSACEAE Adder's Tongue Family Middle Road, October, 1998 CR Blakley





***Lygodium japonicum*** Japanese climbing fern  
SCHIZAEACEAE Curly-grass Family

Peterson & Brown — p20

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p45

Shinners & Mahler — p

Vines — p

Cobb — p60

General: High climbing twining 6 to 10' or more. Very lacy appearance. Escaped from cultivation many years ago. Has spread at least as far west as Texas. Very invasive.

Leaves: Leaves are light green, opposite, up to 8" long & 7" wide; double compound, leaflets lobed. The fertile fronds occur high up in the tree at the end of the vine, shorter than the vegetative fronds; edges of each lobe rolled back holding what may be clusters of spores (sori), placed compactly like the rings of a rattlesnake rattle.

Flower: None. Spores borne on back of leaves.

Fruit: Sporiferous from April til frost

***Lygodium japonicum*** Japanese climbing fern  
SCHIZAEACEAE Curly-grass Family CR Blakley



***Osmunda cinnamomea*** Cinnamon fern, Buckhorn fern, Buckhorn brake, Flowering fern  
OSMUNDACEAE Cinnamon fern family

Peterson & Brown — p20

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p46

Shinners & Mahler — p192

Vines — p

Cobb — p172

General: Large, coarse, arching.

Leaves: Sterile, to 3 ft, twice cut, from rootstock. Woolly tuft at base of leaflet.

Flower: Fertile leaves appear first, green, withering to brown

Fruit: Bright green, sporiferous March to July



***Osmunda cinnamomea*** Cinnamon fern  
OSMUNDACEAE Cinnamon fern family Enchanted Isle, September, 2002 CR Blakley





***Osmunda regalis*** Royal fern, Flowering fern  
OSMUNDACEAE Cinnamon fern family

Peterson & Brown — p20

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p46

Shinners & Mahler — p192

Vines — p

Cobb — p168

General: Large, coarse, doesn't appear fernlike close up

Leaves: Large, to 6 ft, twice cut, from rootstock. Leaflets widely spaced, opposite.

Flower: Fertile leaflets at end of leaf.

Fruit: Spores green, turning brown midsummer. Sporiferous March to July



***Osmunda regalis*** Royal fern

OSMUNDACEAE Cinnamon fern family Enchanted Isle, September, 2002 CR Blakley





***Asplenium platyneuron*** Ebony spleenwort  
POLYPODIACEAE True fern family

Peterson & Brown — p21

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p64

Shinners & Mahler — p179

Vines — p

Cobb — p90

General: Stiffly erect, black stemmed, narrow leaves to 18" tall in shaded woods.

Leaves: Fertile leaves narrow, tapering at top and bottom. Leaflets eared at base, not opposite or alternate. Sterile leaves smaller, often prostrate.

Flower: Fruitdots straight.

Fruit: Sporiferous from March to December.

***Asplenium platyneuron*** Ebony spleenwort  
POLYPODIACEAE True fern family King's Hill, May, 1999 CR Blakley





***Athyrium filix-femina*** Southern lady fern, Lowland lady fern  
POLYPODIACEAE True Fern family

Peterson & Brown — p21

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p64

Shinners & Mahler — p184

Vines — p

Cobb — p110

General: Large, lacy, in moist semi-shade areas

Leaves: To 30" tall, 10" wide, scaled at base only, thrice cut, circular clusters. Leaflets to 8" long, 1½" wide, shorter at base of leaf.

Flower: Fruitdots short, often crossing veins.

Fruit: Sporiferous May to November.

***Athyrium filix-femina*** Southern lady fern  
POLYPODIACEAE True Fern family Cove, February, 2001 CR Blakley



***Lorinseria areolata*** Chain fern, Narrow-leaf chain fern

Also ***Woodwardia areolata***

POLYPODIACEAE True Fern family

Peterson & Brown — p21

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p62

Shinners & Mahler — p181

Vines — p

Cobb — p122

General: Erect to 2 ft, in wet woods.

Leaves: Sterile 6" wide, leaflets wavy, alternate, fine toothed, netted veins. Fertile leave leaflets narrower, often fully covered with fruitdots

Flower: Fruitdots oblong between midvein and margin.

Fruit: Sporiferous March to November.





***Lorinseria areolata*** Chain fern  
POLYPODIACEAE True Fern family Enchanted Isle, June, 1999 CR Blakley





***Polypodium polypodioides*** Resurrection fern, Little Gray Polypody  
POLYPODIACEAE True fern family

Peterson & Brown — p22

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p63

Shinners & Mahler — p193

Vines — p

Cobb — p132

General: Creeping on trees (oaks) or rocks. Evergreen, but turns brown and curls in dry weather

Leaves: Once cut, 8" long, 6-12 leaflet pairs, rounded tips, wavy edges

Flower: Fruitdots in 2 rows near margins

Fruit: Sporiferous May to November

***Polypodium polypodioides*** Resurrection fern  
POLYPODIACEAE True fern family Cove, November, 2001 CR Blakley



***Polystichum acrostichoides*** Christmas fern, Dagger fern  
POLYPODIACEAE True fern family

Peterson & Brown — p22

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p66

Shinners & Mahler — p185

Vines — p

Cobb — p126

General: Erect, evergreen (at Christmas), forms colonies

Leaves: To 3' tall, 4" wide, from clumps, once cut. Leaflets toothed, eared, not opposite.

Flower: Fruitdots numerous, at ends of veins, usually completely covering back of leaflet.

Fruit: Sporiferous May to November



***Polystichum acrostichoides*** Christmas fern  
POLYPODIACEAE True fern family    Enchanted Isle, July, 2001    CR Blakley





***Pteridium aquilinum*** Bracken fern, Pasture Brake  
POLYPODIACEAE True fern family

Peterson & Brown — p22

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p52

Shinners & Mahler — p181

Vines — p

Cobb — p134

General: Erect, to 3' high, forms large colonies, deciduous, usually in poor soil.

Leaves: To 3' wide, nearly horizontal, triangular, twice cut, thrice cut near bottom, smooth, grooved stalk

Flower: Fruitdots near margin, covered by wrapped leaflet edge.

Fruit: Sporiferous March to November



***Pteridium aquilinum*** Bracken fern  
POLYPODIACEAE True fern family Enchanted Isle, 2001 CR Blakley



***Thelypteris kunthii*** Southern Shield Fern, Widespread Maiden Fern  
POLYPODIACEAE True fern family

Peterson & Brown — p22

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p68

Shinners & Mahler — p200

Vines — p

Cobb — p

General: Erect, to 1' tall, 2 rows along creeping stems, in seeps

Leaves: Twice cut, hairy on mid vein, oblong linear, smooth leaflet, deeply lobed.

Flower: Fruitdots

Fruit: Sporiferous March to November



***Thelypteris kunthii*** Southern Shield Fern  
POLYPODIACEAE True fern family Enchanted Isle, July, 2001 CR Blakley





***Pinus echinata*** Shortleaf pine

PINACEAE Pine family

Peterson & Brown — p23

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p73

Shinners & Mahler — p

Vines — p

Cobb — p

General: Evergreen tree, short branches, narrow crown, to 90 ft tall, well drained soils

Leaves: Usually 2 in bundle, 4" long

Flower: Male flowers light brown, female flowers light pink

Fruit: Cone, 2-3" long, held on tree

***Pinus echinata*** Shortleaf pine  
PINACEAE Pine family Martin flat, March, 2001 CR Blakley



***Pinus palustris*** Longleaf Pine, Georgia Pine, Southern Pine, Yellow Pine, Hard Pine, Texas Yellow Pine, Pitch Pine, Fat Pine, Heart Pine, Turpentine Pine, and Florida Pine  
PINACEAE Pine family

Peterson & Brown — p23

Ajlivsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p72

Shinners & Mahler — p

Vines — p

Cobb — p

General: Coniferous tree to 125 feet and a diameter to 4 feet. Trunk straight & tall with few branches. Mostly on deep sandy land

Leaves: Needles 10" or more long, usually 3 in bundle

Flower: Cones Feb.-April. Staminate cones purple 2-3½" long, borne on conspicuous scaly, clustered flower stalks (inflorescences); Male (pistillate) cones reddish purple with spirally arranged scales, each scale with 2 Female parts (ovules) at base.

Fruit: Ripening Sept.-Oct. Cone large, dry, reddish-brown, almost stemless (sessile), cylindrical, slightly curved, 6-12" long, scales much thickened with short curved spine at tip (apex). Seeds mostly triangular with a thin wing about 1½" long

half life-size





***Pinus palustris*** Longleaf Pine  
PINACEAE Pine family Walnut Hill, July, 2001 CR Blakley





***Pinus taeda*** Loblolly pine, Oldfield pine  
PINACEAE pine family

Peterson & Brown — p23

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p72

Shinners & Mahler — p

Vines — p

Cobb — p

General: Evergreen tree, upward spreading branches, broad open crown, to 110 feet tall, sandy loam

Leaves: Needles 5-10" long, almost always 3 in bundle

Flower: Male and female flowers yellow

Fruit: Cones 3-5" long

***Pinus taeda*** Loblolly pine  
PINACEAE pine family Cove, March, 2001 CR Blakley



***Juniperus virginiana*** Eastern Red-cedar  
CUPRESSACEAE Cypress family

Peterson & Brown — p23

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p80

Shinners & Mahler — p

Vines — p

Cobb — p

General: Evergreen tree, many horizontal branches, pyramidal shape, to 100 feet, dry sandy soil, red fragrant heartwood

Leaves: Scaly, overlapping, 1/8-1/4" long

Flower:

Fruit: Ovoid, 1/2" diameter, 1 or 2 seeds, purple or blue





***Juniperus virginiana*** Eastern Red-cedar  
CUPRESSACEAE Cypress family Cullinan Meadow, June, 2001 CR Blakley





***Andropogon species*** Bluestem  
GRAMINEAE Grass family

Peterson & Brown — p27

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p192

Shinners & Mahler — p1238

Vines — p

Cobb — p

General: Stiffly erect perennial bunch grass.

Leaves: Usually flat, narrow, folded.

Flower: Flowering stem much branched above. Fall

Fruit:

***Andropogon species*** Bluestem

GRAMINEAE Grass family Cullinan Meadow November, 2001 CR Blakley



***Arundinaria gigantea*** Giant Cane, Bamboo  
GRAMINEAE grass family

Peterson & Brown — p28

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Correll & Johnston — p112

Tveten & Tveten — p

Cobb — p

General description: Tall to 26', hollow woody green & straw colored canes, ringed periodically by joints. Short branches near the top. Found in thickets or brakes in low areas near water courses

Leaves: Relatively long and narrow, green, pointed at end with short stems

Flower: Grass like racemes in spring- May. Not bloom every year

Fruit:





***Arundinaria gigantea*** Giant Cane, Bamboo  
GRAMINEAE grass family Panhandle trail, July, 1999 CR Blakley





***Chasmanthium latifolium*** Inland Sea oats  
GRAMINEAE Grass family

Peterson & Brown — p29

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p117

Shinners & Mahler — p

Vines — p

Cobb — p

General: Erect perennial, 2-5 feet high, forming mats, moist shady bottomlands

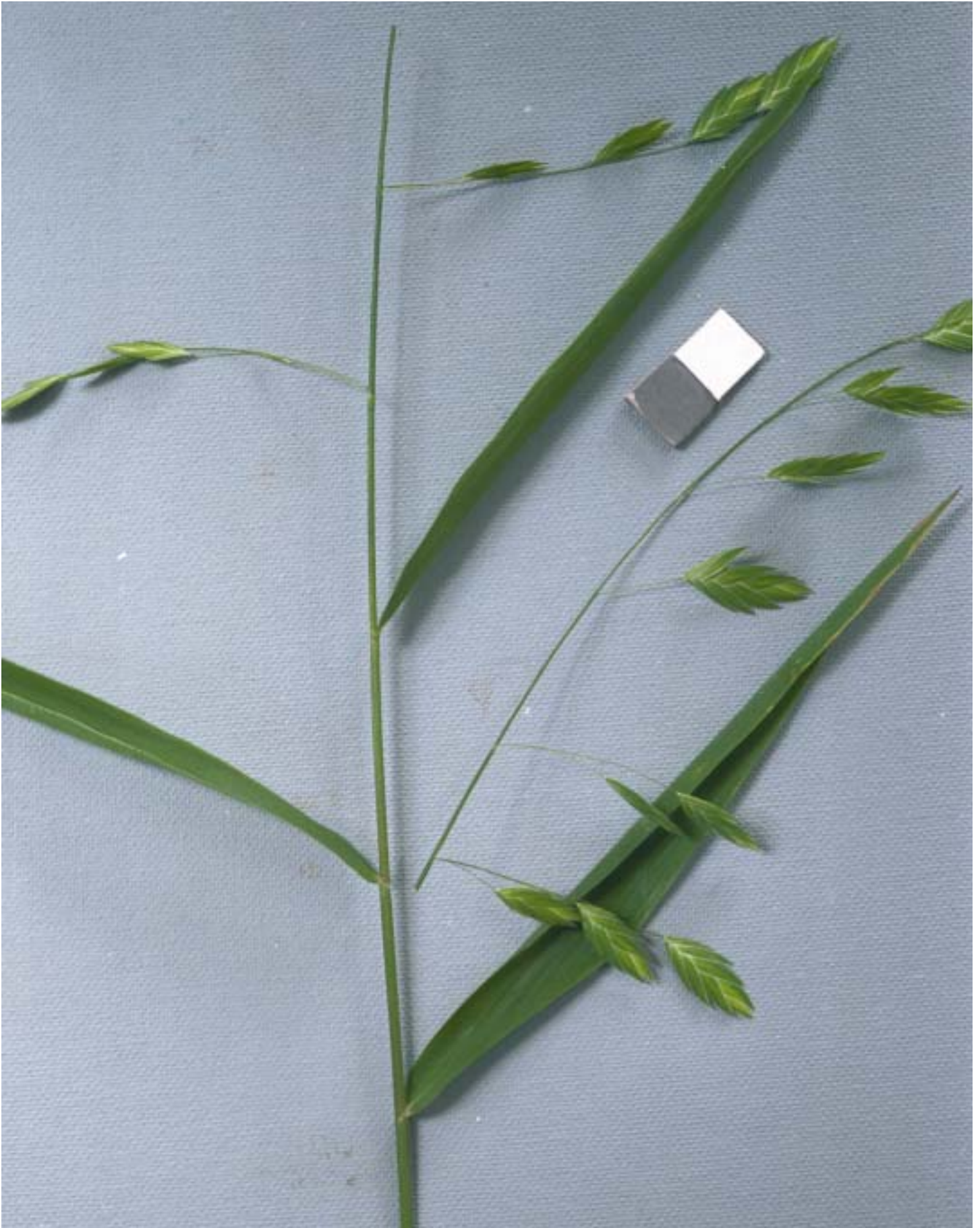
Leaves: Lanceolate, 4-8" long, ½" wide, sheaths much shorter than internodes

Flower: 6-26 per spikelet, flattened, drooping

Fruit: Flat, black grain, 1/8" long



***Chasmanthium latifolium*** Inland Sea oats  
GRAMINEAE Grass family wetlands, June, 2000 CR Blakley





***Muhlenbergia capillaris*** Gulf Muhly, Hairy-awn Muhly, Long-awned Hair Grass, Slender Muhly

GRAMINEAE Grass family

Peterson & Brown — p31

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p231

Shinners & Mahler — p1288

Vines — p

Cobb — p

General: Densely tufted perennial to 3' tall. Sandy fields.

Leaves: Blades to 20" long, 1/8" wide, ascending.

Flower: On panicle to 16" long, open and diffuse, numerous branches.

Fruit: Grain



***Muhlenbergia capillaris*** Gulf Muhly  
GRAMINEAE Grass family Cullinan Meadow, September, 2001 CR Blakley





***Oplismenus hirtellus*** Bristle basketgrass  
GRAMINEAE Grass family

Peterson & Brown — p31

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p182

Shinners & Mahler — p

Vines — p

Cobb — p

General: Creeping perennial, moist loam, shady woods

Leaves: 1-2" long, ½" wide

Flower:

Fruit:



***Oplismenus hirtellus*** Bristle basketgrass  
GRAMINEAE Grass family Dillow Wallow, October, 2000 CR Blakley



***Paspalum setaceum*** Thin paspalum  
GRAMINEAE Grass family

Peterson & Brown — p33

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p159

Shinners & Mahler — p1308

Vines — p

Cobb — p

General: Erect perennial to 3' tall sandy soil

Leaves: 2-14" long, 1/8-1" wide, hairy both sides

Flower: All born on one side of raceme

Fruit:

***Paspalum setaceum*** Thin paspalum  
GRAMINEAE Grass family cove, October, 2000 CR Blakley





***Tridens flavus*** Purpletop, Redtop  
GRAMINEAE Grass family

Peterson & Brown — p34

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p214

Shinners & Mahler — p1330

Vines — p

Cobb — p

General: Tufted erect perennial, 3-7 ft tall, sandy loam, open forests

Leaves: Lower leaf sheaths keeled, purplish panicle

Flower: Spiklets drooping from branches of panicle

Fruit:



***Tridens flavus*** Purpletop  
GRAMINEAE Grass family Cove, November, 1999 CR Blakley





***Salix nigra*** Gulf Black Willow, Scythe-leaved Willow, Swamp Willow  
SALICACEAE Willow family

Peterson & Brown — p(addendum)

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p451

Shinners & Mahler — p978

Vines — p94

Cobb — p

General: Tree to 125', rough, shaggy bark. Wet areas.

Leaves: Deciduous, alternate, simple, narrowly lanceolate, to 6" long, ¾" wide, finely toothed.

Flower: Male and female flowers in catkins to 3" long, often preceding leaves. April-May.

Fruit: Capsule, ¼" long, splitting in two. Many seeds.



***Salix nigra*** Gulf Black Willow  
SALICACEAE Willow family NE Delta, August, 2002 CR Blakley





***Carpinus caroliniana*** American Hornbeam, Ironwood, Blue-Beech, Water Beech, Muscletree, Lechillo, Leantree  
BETULACEAE Birch family

Peterson & Brown — p46

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p463

Shinners & Mahler — p439

Vines — p143

Cobb — p

General: Small crooked tree, 35 feet with fluted gray trunk and pendulous branches. Bark smooth tight thin, trunk separated into muscle-like separations. Widespread in rich woods, bottomland and streams

Leaves: Simple alternate, deciduous, double toothed, 1-5" long, dull bluish green and smooth (glabrous) above, hairy in axils of veins below, stems about 1/3" long

Flower: Male (staminate) and female (pistillate) flowers separate on the same tree; staminate flowers green, in linear cylindric catkins. 1-1 1/2", long scales of catkins triangular with green below, red above, stamens numerous, Pistillate catkins about 1/2", long flowers with bracts which develop into a 3-lobed green base. Blooms March-May

Fruit: Nutlet about 1/3" long, ovoid, borne at base of 3-lobed bract. Many together forming pendent clusters 3-6" long. Seed eaten by at least 9 species of birds



***Carpinus caroliniana*** American Hornbeam  
BETULACEAE Birch family CR Blakley



***Fagus grandiflora*** American Beech

FAGACEAE Beech family

Peterson & Brown — p46

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p465

Shinners & Mahler — p

Vines — p109

Cobb — p

General: Deciduous tree to 120 feet, rounded crown, smooth light gray bark, often mottled, bottom lands

Leaves: Alternate, simple, oval with sharp tip, coarsely toothed, to 6" long, ½" petioles.

Flower: April to May, 1" clusters, on hairy peduncle to 2" long

Fruit: Burlike, ¾" diameter, ripens in fall



***Fagus grandiflora*** American Beech  
FAGACEAE Beech family Little Jordan, March, 2001 CR Blakley





***Quercus laurifolia*** Laurel Oak, Swamp Laurel Oak, Diamond Leaf Oak  
FAGACEAE Beech family

Peterson & Brown — p48

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p486

Shinners & Mahler — p

Vines — p179

Cobb — p

General: Deciduous tree of red oak group, round crown, to 100 feet tall, dark brown to dark gray bark, flat ridges between furrows, bottom lands

Leaves: Alternate, simple, partial evergreen, oblong, 2-6" long, ½-1" wide, short, ¼" long, yellow petioles

Flower: Male catkins red, hairy, 2-3" long. Female catkins brown, hairy, red stigma

Fruit: Acorn, ½" long, dark brown, cap covers about ¼ of length

***Quercus laurifolia*** Laurel Oak  
FAGACEAE Beech family Cove, July, 2001 CR Blakley



***Magnolia grandiflora*** Southern Magnolia  
MAGNOLIACEAE Magnolia family

Peterson & Brown — p53

Ajilvsgi — p144

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p658

Shinners & Mahler — p

Vines — p280

Cobb — p

General: Large evergreen tree 50-75' tall with many branches. Pyramidal in shape when growing alone. The genus is named for Pierre Magnol-Professor of Botany at Montpellier and the species *grandiflora* refers to the size of the flowers.

Leaves: Alternate, simple evergreen, elliptic 4-9" long with bottom a rusty brown.

Flower: April-August. Solitary, cup shaped with 6-18 creamy-white petals and yellow stamens. Flowers can be 6-9" across.

Fruit: A green to rose colored cone opening to expose 40-60 red seeds.

***Magnolia grandiflora*** Southern Magnolia  
MAGNOLIACEAE Magnolia family Dillo Wallow, April, 1999 CR Blakley





***Magnolia grandiflora*** Southern Magnolia  
MAGNOLIACEAE Magnolia family Dillo Wallow, April, 1999 CR Blakley

***Magnolia grandiflora*** Southern Magnolia  
MAGNOLIACEAE Magnolia family Dillo Wallow, April, 1999 CR Blakley



***Magnolia pyramidata*** Pyramid Magnolia  
MAGNOLIACEAE Magnolia family

Peterson & Brown — p54

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p658

Shinners & Mahler — p

Vines — p283

Cobb — p

General: Slender tree to 30' tall with whorled leaves which are narrow and eared at base. The genus is named for Pierre Magnol of Montpelher, France and the species pyramidata to the shape of the fruit.

Leaves: Deciduous, alternate or whorled, 4-6" long. Bright green on top and paler on bottom.

Flower: Solitary on stem and 3-4" across with fragrant creamy-white petals and a cone like center.

Fruit: A green to rose colored cone with numerous red seeds.

***Magnolia pyramidata*** Pyramid Magnolia  
MAGNOLIACEAE Magnolia family Little Jordan, April, 2000 CR Blakley





***Magnolia virginiana*** Sweet Bay Magnolia, Swamp Bay  
MAGNOLIACEAE Magnolia family

Peterson & Brown — p54

Ajilvsgi — p145

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p658

Shinners & Mahler — p

Vines — p285

Cobb — p

General: Semi evergreen tree to 30' tall, aromatic bark, underside of leaves conspicuously white, smooth gray to brown bark. Seepage slopes.

Leaves: Alternate, simple, deciduous, oblong, 5-9" long, 3-4" wide, with white bottom.

Flower: White, solitary, 3" diameter, cupped, 9-12 petals.

Fruit: Red in cone-like aggregate.

***Magnolia virginiana*** Sweet Bay Magnolia  
MAGNOLIACEAE Magnolia family Enchanted Isle, August, 2001 CR Blakley



***Persea bornonia*** Red Bay  
LAURACEAE Laurel Family

Peterson & Brown — p54

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p661

Shinners & Mahler — p

Vines — p295

Cobb — p

General: Evergreen tree to 70', ascending branches, symmetrical crown, brown bark, deep fissures, wide, scaly ridges. Bottom lands.

Leaves: Alternate, simple, oblong, pointed, 3-4" long, 1 ½" wide, whitish underside.

Flower: Pale yellow, no petals, sepals bell shaped, axillary, peduncles to 2" long.

Fruit: Drupe, ½" long, blue to black.

4X





*Persea borbonia* Red Bay

LAURACEAE Laurel Family Martin Flat, June, 2002 CR Blakley





***Sassafras albidum*** Sassafras  
LAURACEAE Laurel Family

Peterson & Brown — p54

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p660

Shinners & Mahler — p786

Vines — p297

Cobb — p

General: Deciduous tree to 90' with flattened crown, short crooked branches, bark reddish to brown, irregularly broken, aromatic. Sandy woods.

Leaves: Alternate, variable shape, usually mitten-like, 3-5" long, whitish below, petioles to 1" long.

Flower: Greenish, on axillary racemes to 2" long, no petals. March to April.

Fruit: Drupe, blue, to ½" long.

4X



***Sassafras albidum*** Sassafras  
LAURACEAE Laurel Family Cove CR Blakley



***Liquidambar styraciflua*** American Sweetgum, Redgum  
HAMAMELIDACEAE Witch Hazel family

Peterson & Brown — p45

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p727

Shinners & Mahler — p737

Vines — p325

Cobb — p

General: Deciduous tree, to 150', young twigs with corky wings, persistent seed balls. Rough, furrowed, brown to gray bark Moist woods.

Leaves: Alternate, simple, 2-5" long petioles, broader than long, 3-9" wide, 3-7 pointed lobes.

Flower: Pistillate flowers axillary in long, round heads. Staminate flowers on terminal raceme, 2-3" long. March to May.

Fruit: Spiny 1" diameter ball on long peduncle.

*Liquidambar styraciflua* American Sweetgum  
HAMAMELIDACEAE Witch Hazel family Cove, June, 2001 CR Blakley





***Prunus caroliniana*** Cherry laurel, Laurel cherry, Wild Peach  
ROSACEAE Rose family

Peterson & Brown — p59

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p757

Shinners & Mahler — p949

Vines — p387

Cobb — p

General: Small evergreen tree to 40' tall. Bark smooth, dark brown to black Thicket forming from seedlings and root suckers. A fast growing 'screen' plant frequently planted to define borders of city lots. Invasive in wild forests.

Leaves: Lustrous dark green on top, paler on bottom. Pointed tips

Flower: Clusters of small white flowers line the twigs in early spring, Feb.-Apr. Can be fragrant when present in large numbers.

Fruit: Seeds are cherry-like, carried in dark black/purple pulpy fruits.

***Prunus caroliniana*** Cherry laurel  
ROSACEAE Rose family Cove CR Blakley



***Prunus mexicana*** Mexican Plum, Big Tree Plum  
ROSACEAE Rose family

Peterson & Brown — p59

Ajilvsgi — p157

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p759

Shinners & Mahler — p949

Vines — p402

Cobb — p

General: Small, stout tree to 36' tall with shaggy bark.

Leaves: Alternate, broadly spatulate, 2 ½-4 ¾" long, sharp pointed at tip, sharp toothed.

Flower: 2-4", umbel, showy, opening before or with first leaves. White, ½ to ¾" across, 5 petals, blooms Feb.- March.

Fruit: - Drupe, red, globe-like ¾-1¼" long. Seed 1 (stone). Fruit is edible, used for jellies and preserve ripening. July-Sept.

life siize





***Prunus mexicana*** Mexican Plum  
ROSACEAE Rose family Big Meadow CR Blakley





***Cercis canadensis*** Eastern Redbud, Redbud Tree, Judas Tree  
FABACEAE - LEGUMINOSAE Pea family

Peterson & Brown — p62

Ajilvsgi — p159

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p784

Shinners & Mahler — p640

Vines — p

Cobb — p

General: Small tree to 35', smooth bark. Forest edges, commonly planted on Houston streets. State tree of Oklahoma.

Leaves: Alternate, stalked (petioled), hairy (pubescent) under surface when young. Almost round to heart shaped.

Flower: Few to several in clusters on last years wood. 5 pink to purplish petals. Blooms before leafing out. Feb.-Mar.

Fruit: Dark brown bean pod, flattened, thin walled.

4X



***Cercis canadensis*** Eastern Redbud  
FABACEAE - LEGUMINOSAE Pea family Triangle, Spring, 2000 CR Blakley



***Citrus trifoliata*** Trifoliolate Orange, Bitter Orange

RUTACEAE Citrus family

Peterson & Brown — p66

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p907

Shinners & Mahler — p972 (*Poncirus trifoliata*)

Vines — p358 (*Poncirus trifoliata*)

Cobb — p

General: Introduced shrub or small tree, armed with stiff thorns, to 30' tall.

Leaves: Deciduous, alternate, trifoliolate, 3" long, winged petiole, aromatic, oval leaflets. Flattened 3" thorns at nodes.

Flower: White, axillary, sessile, 2" diameter, 5 petals, on old wood. March-April.

Fruit: Berry, September-October. 2" diameter.

***Citrus trifoliata*** Trifoliolate Orange  
RUTACEAE Citrus family Cullinan Meadow, November, 2001 CR Blakley





***Ptelea trifoliata*** Hop-tree, Wafer-ash, Skunkbush, Cola de Zorrillo  
RUTACEAE Citrus family

Peterson & Brown — p6

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p909

Shinners & Mahler — p972

Vines — p591

Cobb — p

General: To 20'. Shrub or small tree with rounded crown. Crushed leaves, twigs etc have lemon-like but unpleasant smell. Dry rocky areas.

Leaves: - Palmately compound, 3 leaflets on long stalk. Shiny dark green above, paler and sometimes hairy beneath.

Flower: Greenish white in clusters. Mar.-July

Fruit: - Clustered, thin, disk-like with rounded wing. Bitter fruit once substituted for hops in beer making. Northernmost citrus family member in New World.

***Ptelea trifoliata*** Hop-tree  
RUTACEAE Citrus family Cove, May, 1999 CR Blakley



***Zanthoxylum clava-herculis*** Hercules-Club, Toothache Tree, Pepperbark, Prickly-ash, Tickle-tongue

RUTACEAE Citrus family

Peterson & Brown — p67

Ajlivsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p910

Shinners & Mahler — p974

Vines — p594

Cobb — p

General: Shrub or small tree to 20' tall, broad rounded crown, corky prickles on trunk. Forests.

Leaves: Alternate, pinnately compound, 5-15" long, 5-19 leaflets, ½-4" long, nearly sessile, broadly lanceolate, pointed tip, spiny petioles, glandular below.

Flower: Greenish white, in terminal cymes, ¾" diameter, 4-5 petals. Spring.

Fruit: Follicle, 1 black seed.





***Zanthoxylum clava-herculis*** Hercules-club  
RUTACEAE Citrus family NE fence, August, 2001 CR Blakley





***Ilex coriacea*** Tall Inkberry Holly, Gallberry Holly, Baygall-bush, Shining Inkberry  
AQUIFOLIACEAE Holly family

Peterson & Brown — p70

Ajilvsgi — p187

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p995

Shinners & Mahler — p

Vines — p652

Cobb — p

General: Evergreen shrub or small tree to 15', sandy low woods

Leaves: Alternate, lustrous, simple, oval with sharp tip, few small, spinelike teeth, paler beneath, short petiole, to 3 ½" long, 1 ½" wide.

Flower: White, usually solitary from axil, small, 4-9 united petals.

Fruit: Black drupe, ¼" diameter.

2X



*Ilex coriacea* Tall Inkberry Holly  
AQUIFOLIACEAE Holly family Enchanted Isle, August, 2001 CR Blakley



***Ilex decidua*** Possum-haw Holly, Deciduous Holly, Meadow Holly, Prairie Holly, Welk Holly,  
Bear-berry, Winterberry  
AQUIFOLIACEAE Holly family

Peterson & Brown — p70

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p996

Shinners & Mahler — p270

Vines — p654

Cobb — p

General: Deciduous shrub or small tree to 30' with spreading crown, bottom lands.

Leaves: Alternate, simple, spatulate, mid rib on upper surface depressed, small blunt teeth.

Flower: White, small, 4-6 united petals.

Fruit: Red drupe, ¼" diameter.

*Ilex decidua* Possum-haw Holly  
AQUIFOLIACEAE Holly family March, 2001 CR Blakley





***Ilex opaca*** American Holly, Christmas Holly, Yule Holly  
AQUIFOLIACEAE Holly family

Peterson & Brown — p71

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p997

Shinners & Mahler — p270

Vines — p647

Cobb — p

General: Evergreen tree to 70' tall, crooked branches, rounded crown, moist woods.

Leaves: Alternate, simple, variable oval shape, sharp spines.

Flower: Small white 4-5 petals united at base. Female and male flowers on separate plants. Blooming April-June.

Fruit: A shiny red berry to ¼" round on female plants.

*Ilex opaca* American Holly  
AQUIFOLIACEAE Holly family Dillo Wallow CR Blakley



***Ilex vomitoria*** Yaupon Holly, Cassena, Evergreen Holly, South-sea-tea, Carolina-tea, Indian Black-drink, Yupon del Indio

AQUIFOLIACEAE Holly family

Peterson & Brown — p71

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p996

Shinners & Mahler — p270

Vines — p646

Cobb — p

General: Evergreen thicket forming shrub to 25' tall with a dense, rounded crown and growing in moist areas. The genus name comes from the Holly Oak and the species vomitoria from its use as a medicine.

Leaves: Dark, lustrous, simple, alternate with minutely serrate edges.

Flower: Small white 4-5 petals united at base. Female and male flowers on separate plants. Blooming Mar.-May.

Fruit: A shiny red berry to ¼" round on female plants.

***Ilex vomitoria*** Yaupon Holly  
AQUIFOLIACEAE Holly family Cove CR Blakley





***Acer rubrum*** Red Maple, Scarlet Maple, Swamp Maple, Shoe-peg Maple  
ACERACEAE Maple family

Peterson & Brown — p71

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1003

Shinners & Mahler — p220

Vines — p668

Cobb — p

General: Deciduous tree to 100' with narrow crown. Short-lived rapid growing. Low woods.

Leaves: Opposite, simple, oval to 6" long, 3-5 lobes, irregularly toothed, lighter below, petioles to 4" long, usually red, fall color

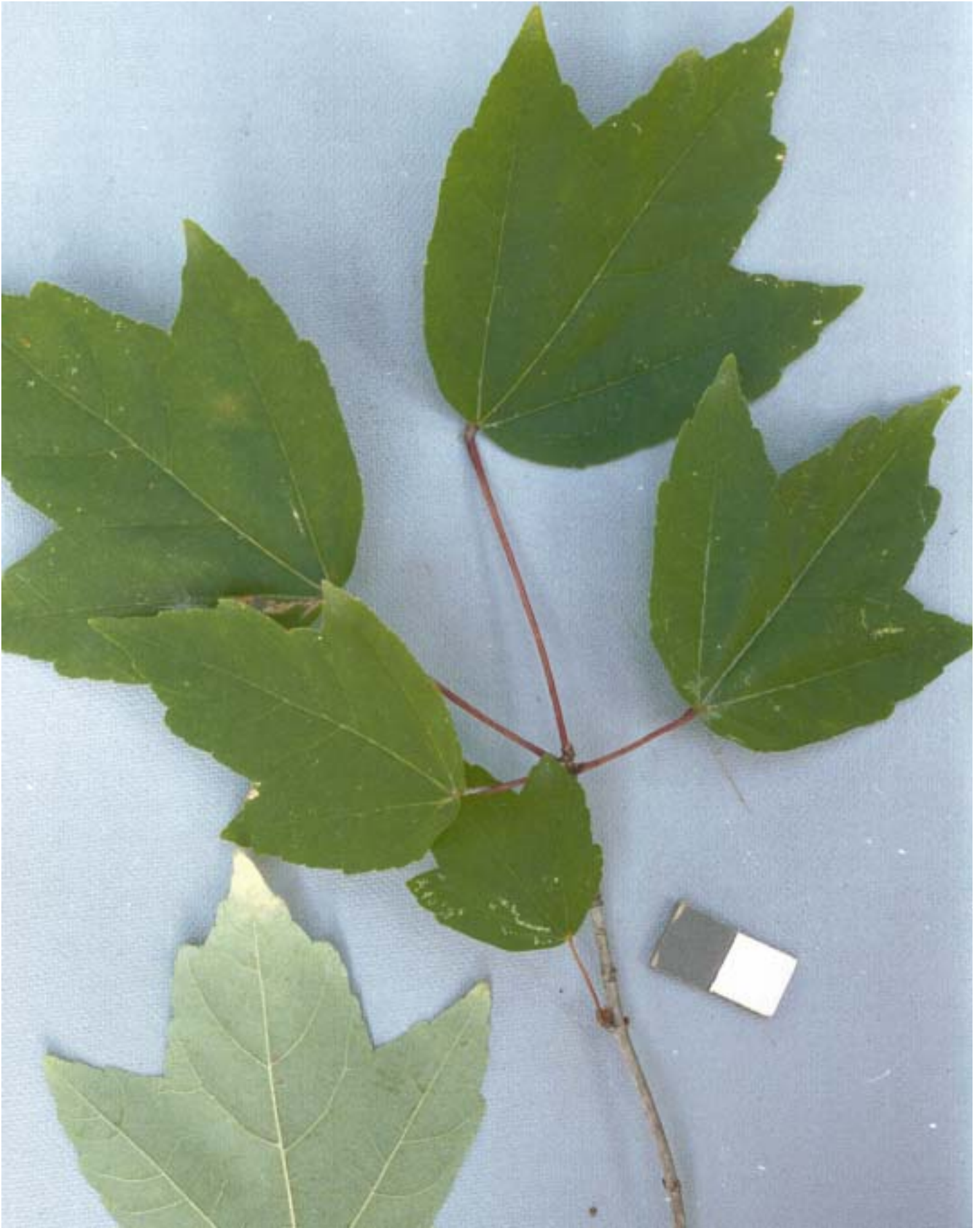
Flower: Red, opening before spring leaves. February-April

Fruit: Red samaras. March-June.

4X



***Acer rubrum*** Red Maple  
ACERACEAE Maple family Summer, 2001 CR Blakley



***Rhamnus caroliniana*** Carolina Buckthorn, Indian Cherry, Polecat Tree  
RHAMNACEAE Buckthorn Family

Peterson & Brown — p72

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1012

Shinners & Mahler — p933

Vines — p701

Cobb — p

General: Deciduous shrub or small tree to 35' in bottom lands

Leaves: Simple, alternate, 2 to 4" long, 1-2" wide, shiny above, velvety below.

Flower: Small, 5 petals, white or green in small clusters. May-June

Fruit: Globular, black, 3 seeded, 3/8" across. August-October

4X





***Rhamnus caroliniana*** Carolina Buckthorn  
RHAMNACEAE Buckthorn Family CR Blakley





***Tilia caroliniana*** Carolina linden, Carolina Basswood  
TILIACEAE Linden family

Peterson & Brown — p73

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1024

Shinners & Mahler — p1036

Vines — p733

Cobb — p

General: Large tree to 90' or more. Deciduous. Moist soils by streams, hillsides and upland areas. When trees were more numerous, a source of good honey. Inner bark very tough-used to make fabric or baskets, thus the name bastwood (basswood).

Leaves: Deciduous, simple, alternate broadly oval about 5 ½" long, asymmetrical at base.

Flower: Hang in white, sweet smelling clusters from a stalk coming out of a narrow leafy bract. Apr.-June.

Fruit: Round, nutlike.

***Tilia caroliniana*** Carolina linden

TILIACEAE Linden family Triangle, May, 1999 CR Blakley



***Aralia spinosa*** Devil's Walkingstick, Hercules Club, Angelica-tree, Prickly-elder  
ARALIACEAE Ginseng family

Peterson & Brown — p78

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1139

Shinners & Mahler — p

Vines — p792

Cobb — p

General: Shrub or small tree to 35' usually single stem with few branches, younger bark sharply prickled.  
Moist woods.

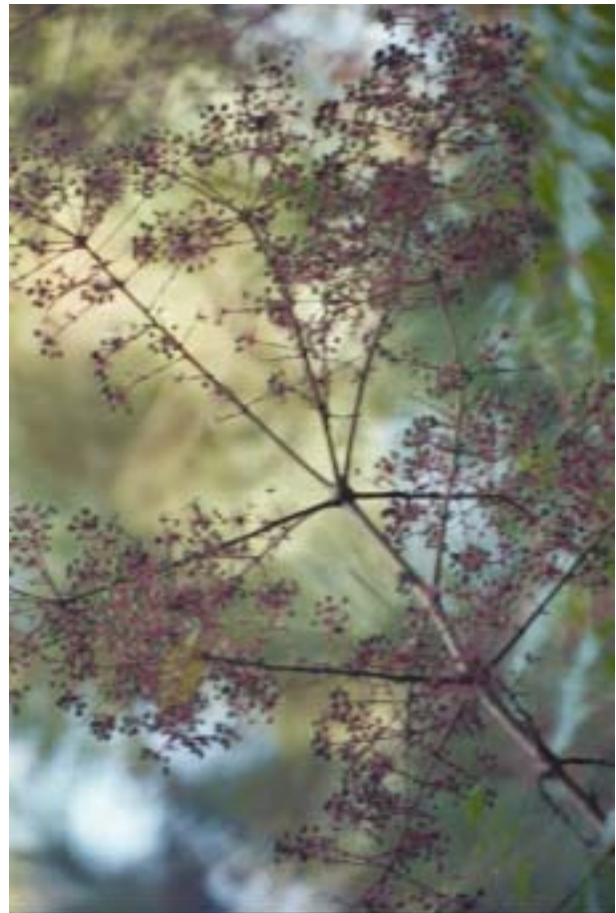
Leaves: Alternate, doubly pinnately compound, 5-6 pairs of leaflets, to 4" long, leaf to 4' long, 4' wide,  
usually at top of trunk.

Flower: White, small, 1/8" diameter, 5 petals, on terminal panicle. July-August.

Fruit: Drupe, black, 1/4" diameter.



Fruit





***Aralia spinosa*** Devil's Walkingstick  
ARALIACEAE Ginseng family Sawdust pile, August, 2002 CR Blakley





***Cornus drummondii*** Rough-leaf Dogwood, Small Flower Dogwood  
CORNACEAE Dogwood family

Peterson & Brown — p81

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1172

Shinners & Mahler — p561

Vines — p798

Cobb — p

General: Deciduous shrub or small tree to 15' tall, gray bark with narrow grooves. Damp woodlands.

Leaves: Opposite, simple, to 5" long, 2 ½" wide, conspicuously veined, oval with pointed tip, roughly hairy both sides, paler below, petiole to ¾".

Flower: Yellowish white, in terminal cyme on long peduncle, 4 petals, ¼" diameter. May-August.

Fruit: White drupe, ¼" diameter. 1-2 seeds.

4X



***Cornus drummondii*** Rough-leaf Dogwood  
CORNACEAE Dogwood family King's Hill, April, 1998 CR Blakley



***Cornus florida*** Flowering Dogwood, Cornelius-tree, Florida Dogwood  
CORNACEAE Dogwood family

Peterson & Brown — p81

Ajilvsgi — p217

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1172

Shinners & Mahler — p561

Vines — p794

Cobb — p

General: Large understory shrub or small tree to 35' with trunk to 20" diameter and crown to 35'. Moist sandy woods.

Leaves: Deciduous, simple, opposite, prominently veined. Broadly elliptic, pointed tip, rounded base. Petioles less than 0.5" long. To 5" long and 1.5" wide.

Flower: Greenish white, sessile. 4 petals, 4 stamens. In tight cluster surrounded by 4 showy white or pinkish bracts. Bracts to 2" long, 1.3" wide, usually notched at tip. March-April

Fruit: Clustered, bright red drupe, 0.8" long. 2 seeds.



***Cornus florida*** Flowering Dogwood  
CORNACEAE Dogwood family King's Hill, April, 1998 CR Blakley





***Nyssa sylvatica*** Black Tupelo, Black Gum, Swamp Hornbeam, Yellow Gum, Snag Tree, Beetle Bung, Hornpike, Hornpine, Hornbine, Pepperidge, Bee Gum, Sour Gum.

CORNACEAE Dogwood family

Peterson & Brown — p81

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1170

Shinners & Mahler — p

Vines — p801

Cobb — p

General: Tree up to 100 feet with horizontal branches. Bark gray to brown, deeply fissured & broken into small irregular, shaped blocks. Moist, rich soils. Wood used for veneer, etc. 32 species of birds eat the fruit, as well as black bear & white-tailed deer.

Leaves: Simple, alternate, deciduous, unlobed (entire) 2-6" long, 1-3" wide, tip pointed, a few coarse remote teeth. Shape ovate to oval, thick, firm, lustrous green above, paler & hairy below, petiole to 1".

Flower: In axillary clusters, greenish, petals small, ovate. Pistillate flowers in clusters of 2 or more.

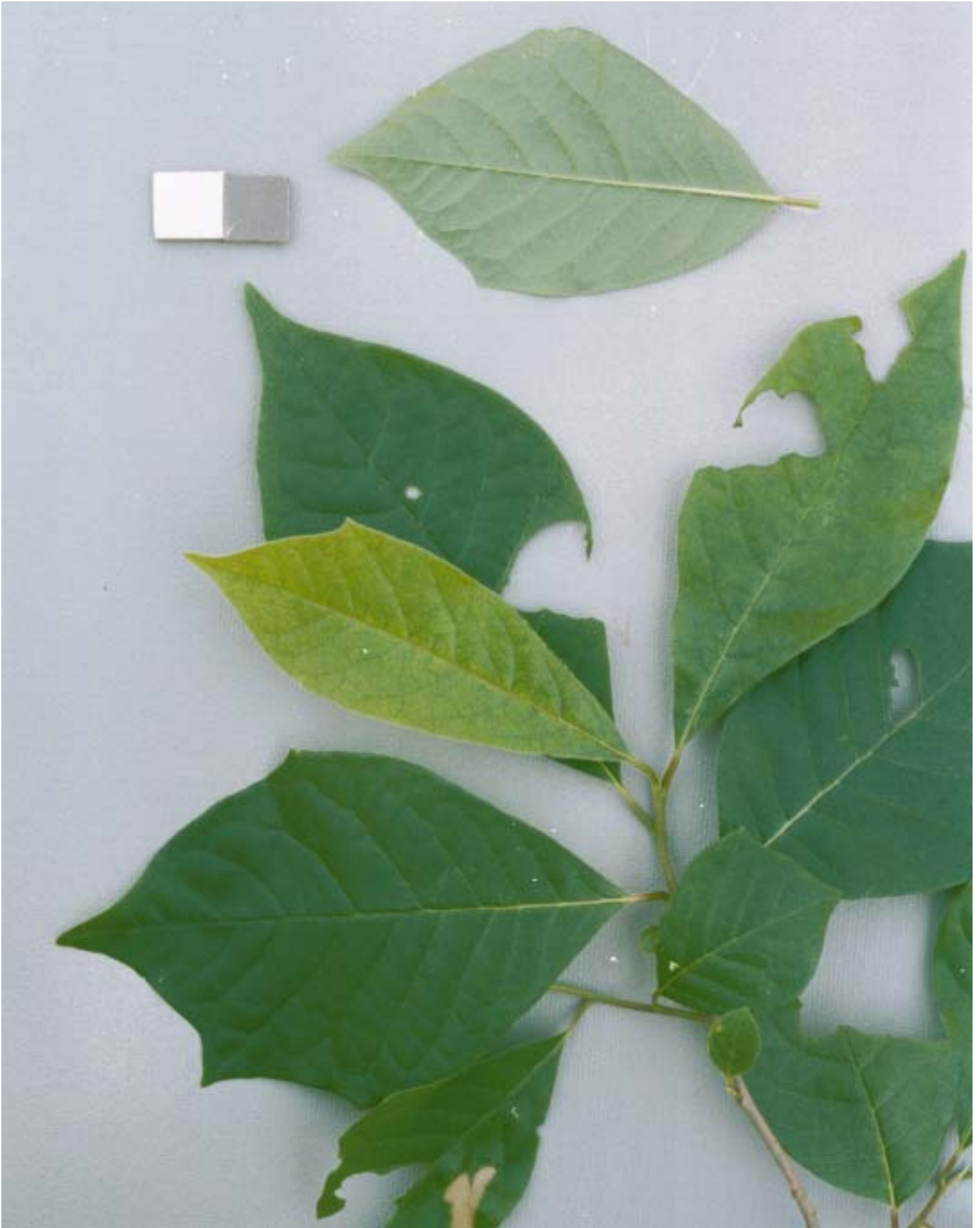
Fruit: Drupe-like, 1-3 in a cluster on long stalks (peduncles), blue-black, about ½" long, ovoid, acid, bitter, stone solitary light brown, indistinctly 10-12 ribbed.

4X Pith cross walls



Ferns, Grasses, Trees-100

***Nyssa sylvatica*** Black Tupelo  
CORNACEAE Dogwood family Enchanted Isle CR Blakley



***Vaccinium arboreum*** Farkleberry, Sparkleberry, Tree blueberry, Huckleberry, Winter huckleberry

ERICACEAE Heath family

Peterson & Brown — p82

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1175

Shinners & Mahler — p584

Vines — p815

Cobb — p

General: Shrub or small tree to 30' tall. Evergreen or persistent leaved. Sandy areas, dry or damp but well drained. In some areas marks presence of a 'pimple mound'. Bark gray, shredding.

Leaves: Alternate, simple, oval, to 3" long, 1" wide, leatherlike, shiny on top.

Flower: Small, white, upside-down, pinched mouthed with spreading lobes. Blooms Mar.-May.

Fruit: Black, round, pulp good taste, but not much of it.

4X



***Vaccinium arboreum*** Farkleberry  
ERICACEAE Heath family Little Jordan CR Blakley





***Halesia diptera*** Two-wing silver bell, Snow-drop tree  
STYRACACEAE Storax family

Peterson & Brown — p83

Ajilvsgi — p221

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1190

Shinners & Mahler — p

Vines — p842

Cobb — p

General: Deciduous small tree to 24' tall. Bottomland woods.

Leaves: Alternate, elliptic, pointed, to 6" long, 3" wide, prominently veined. Coarsely toothed.

Flower: White, showy, drooping in clusters. 4 fused, ribbed, very pubescent petals, 0.6-1" long. 0.5" long pedicel. March-April.

Fruit: Narrow ellipsoid, 2-3" long. Two wings.

1/2X fruit



***Halesia diptera*** Two-wing silver bell  
STYRACACEAE Storax family Cove, March, 1998 CR Blakley



***Symplocos tinctoria*** Sweetleaf, Horse sugar, Yellow wood, Wild laurel  
SYMPLOCACEAE Sweetleaf family

Peterson & Brown — p83

Ajilvsgi — p

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p192

Shinners & Mahler — p

Vines — p840

Cobb — p

General: Shrub or small tree, height usually described as being to 6 meters, i.e. 18' but one field guide says 45'! Found in pine, hard wood forests on sandy soil. Leaves eaten by deer, cattle.

Leaves: Evergreen, at least persistent, unlobed but somewhat toothed at top. Short hairs on under surface, sweet tasting.

Flower: White > Yellow in tight clusters in leaf axils. Feb.-Apr.

Fruit: Blue black, egg shaped.

***Symplocos tinctoria*** Sweetleaf  
SYMPLOCACEAE Sweetleaf family Chasm CR Blakley





***Chionanthus virginica*** White Fringe-tree, Old-man's Beard, Flowering Ash, Graybeard tree, Sun-flower-tree, Poison Ash  
OLEACEAE Olive (Ash) family

Peterson & Brown — p84

Ajilvsgi — p222

Niehaus, Ripper & Savage — p

Tveten & Tveten — p

Correll & Johnston — p1198

Shinners & Mahler — p

Vines — p849

Cobb — p

General: Deciduous shrub or small tree to 35'. Crooked branches, narrow crown. Brown bark with scales. Damp woods.

Leaves: Opposite, simple, oval, 4-8" long, 1-4" wide, petioles to 1" long, paler below with hairy veins.

Flower: White, 1" long, in 4-6" long drooping panicles. Early spring.

Fruit: Drupe, clusters, bluish-black,  $\frac{3}{4}$ " long.

***Chionanthus virginica*** White Fringe-tree  
OLEACEAE Olive (Ash) family Cove, April, 1999 CR Blakley





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Woodbine red-64  
Woodland Agrimony yellow-12  
Woodland Groovebur yellow-12  
Woodwardia areolata fgt-14  
Wooly croton white-48  
Wormseed yellow-4  
Wreath Aster white-116

## **X**

Xanthorhiza simplicissima red-8

## **Y**

Yankee Weed white-130  
Yaupon Holly fgt-86  
Yeatesia white-96  
Yeatesia viridiflora white-96  
Yellow Blue-eyed Grass yellow-2  
Yellow False Garlic white-8  
Yellow Gum fgt-100  
Yellow Passion-flower yellow-32  
Yellow Pine fgt-26  
Yellow Thistle yellow-52  
Yellow wood fgt-106  
Yellow wood-sorrel yellow-22, yellow-24  
Yellow-strawberry yellow-14  
Yellowflower Mecardonia yellow-46  
Yellowroot red-8  
Yuccaleaf snakeroot white-68  
Yule Holly fgt-84  
Yupon del Indio fgt-86

## **Z**

Zanthoxylum clava-herculis fgt-78  
Zarzamora white-46  
Zarzaparilla green-6



