

Introduction to Plant Identification for the Wetland Assessment Procedure (WAP)

by Diane Willis, M.S.

Presented to:
SWFWMD WAP Training



4/13/17 and 4/27/17



General Key Characters		
Habit	Petal Number	Leaf Arrangement
T  tree	none, or not evident	N none, or not evident
S  shrub	3	O  opposite
V  vine	4	A  alternate
H  terrestrial herb	5	W  whorled
A  aquatic herb	6	B  basal
E  epiphyte, parasite	7	
	8+	

Key Leaf Characters	
Leaf Type	Leaf Shape
S  simple	G  needle, scale, or grass-like
P  pinnate	L  linear
B  bipinnate	N  lanceolate
M  palmate	E  elliptic
T  trifoliate	O  ovate
	C  hastate, cordate
	R  round
	B  obovate

Leaf Margin
E  entire
S  serrate
D  dentate
C  cut
L  lobed

Key Flower Characters		
Flower Arrangement	Flower Form	Flower Color
S  solitary	A none, or not evident	G green
I  spike	R  round flat	W white, cream
R  raceme	C  cup	Y yellow, orange
P  panicle	F  round funnel	R pink, red
U  umbel, corymb, cyme	T  round tube	B blue, purple, brown
H  head & rays	Z  two lipped, zygomorphic	
K  knot, glomerule, head		
T  spathe		

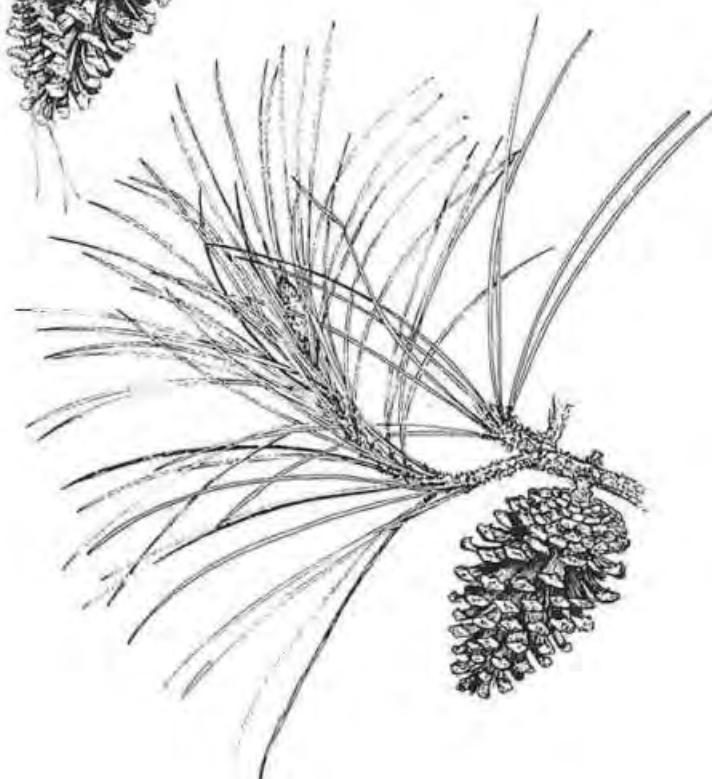
10 centimeters = 1 decimeter



From "The Guide to Florida Wildflowers" by Walter Kingsley Taylor



Longleaf Pine
Pinus palustris



Slash Pine
Pinus elliottii

Plate 2

From "Guide to Southern Trees" by Harrar and Harrar

Taxodium ascendens

Photo by John Kanzer



Taxodium distichum

Photo by Thomas Farnsworth





Acer rubrum
Photo by Mary Keim



Liquidambar styraciflua
Photo by Paul L. Redfearn, Jr.



Acer rubrum
Photo by Shirley Denton



Liquidambar styraciflua
Photo by Mary Keim



Ilex cassine



*Nyssa
sylvatica
var. biflora*



Ilex cassine
Photo by Allen Boufman



Nyssa sylvatica var. biflora
Photo by Mary Keim



Magnolia virginiana



Magnolia virginiana
Photo by Shirley Denton



Persea palustris
Photo by Fred Nation

Triadica sebifera

Photo by Dennis Girard



Cinnamomum camphora

Photo by Alan Franck



Melaleuca quinquenervia

Photo by Shirley Denton



Melaleuca quinquenervia

Photo by Shirley Denton



Diospyros virginiana
Photo by Pat Howell



Diospyros virginiana
Photo by Shirley Henson





Diospyros virginiana
Photo by Shirley Denton

Nyssa sylvatica var. *biflora*
Photo by Mary Keim



widest at
middle

Diospyros virginiana



widest at
middle

Celtis laevigata

Photo by Keith Bradley



Ulmus americana

Photo by Dennis Girard





Quercus nigra

Quercus laurifolia



Quercus laurifolia



Quercus virginiana



Quercus virginiana



Schinus terebinthifolia
Photo by Paul L. Redfearn, Jr.

Schinus terebinthifolia
Photo by Shirley Denton



Sambucus nigra subsp. canadensis

*Photo by Gil Nelson,
from his book: Tree of Florida*

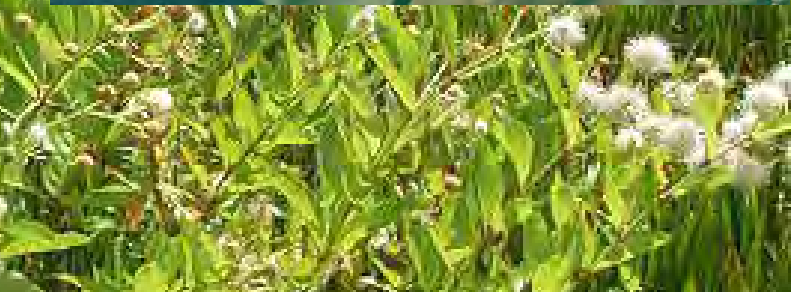
Cephalanthus occidentalis

Photo by Shirley Denton



Cephalanthus occidentalis

Photo by Mrs. Harold Medbery
USF Herbarium Slide Collection



Diospyros virginiana

widest at
middle



Callicarpa americana

Photo by Walter K. Taylor



Callicarpa americana

Photo by Shirley Denton



Ilex glabra
Photo by Keith Bradley



Ilex cassine



Shirley Gordon, February 2008

Baccharis halimifolia

Photo by T. Ann Williams



Ilex glabra

Photo by Keith Bradley



Ilex glabra
Photo by Keith Bradley



Lyonia lucida
Photo by Mark Keim



Myrica cerifera

Photo by Shirley Denton



Ludwigia peruviana



Peruvian primrosewillow



WAP Zone: OD



Ludwigia octovalvis
Photo by Matthew Merriam

Hypericum fasciculatum

Photo by Dennis Girard



Hypericum myrtifolium

Photo by Dennis Girard



Hypericum tetrapetalum

Photo by Glenn Fleming
USF Herbarium Slide Collection



Hypericum mutilum

Photo by Shirley Denton

Euthamia caroliniana

Euthamia minor



Slender flattop goldenrod



WAP Zone: AD



Hypericum fasciculatum

Photo by Dennis Girard



Paederia foetida



Mikania scandens



Mikania scandens
Photo by Matthew Merritt



Smilax bona-nox
Photo by Keith Bradley



Smilax bona-nox
Photo by John Stephenson



Vitis rotundifolia

Photo by Nancy Mladenoff



Melothria pendula



Creeping cucumber





Toxicodendron radicans
Photo by Keith Bradley



reddish
petiole

Toxicodendron radicans



Toxicodendron radicans
Photo by Walter Hodge
USF Herbarium Slide Collection

Rubus argutus
Rubus betulifolium

Sawtooth blackberry

WAP Zone: AD



Galactia elliotii



Elliott's milkpea



Ampelopsis arborea



Toxicodendron radicans



Erechtites hieraciifolius
Photo by Shirley Denton



Cirsium nuttallii
Photo by Matthew Merritt

Cirsium nuttallii
Photo by Matthew Merritt



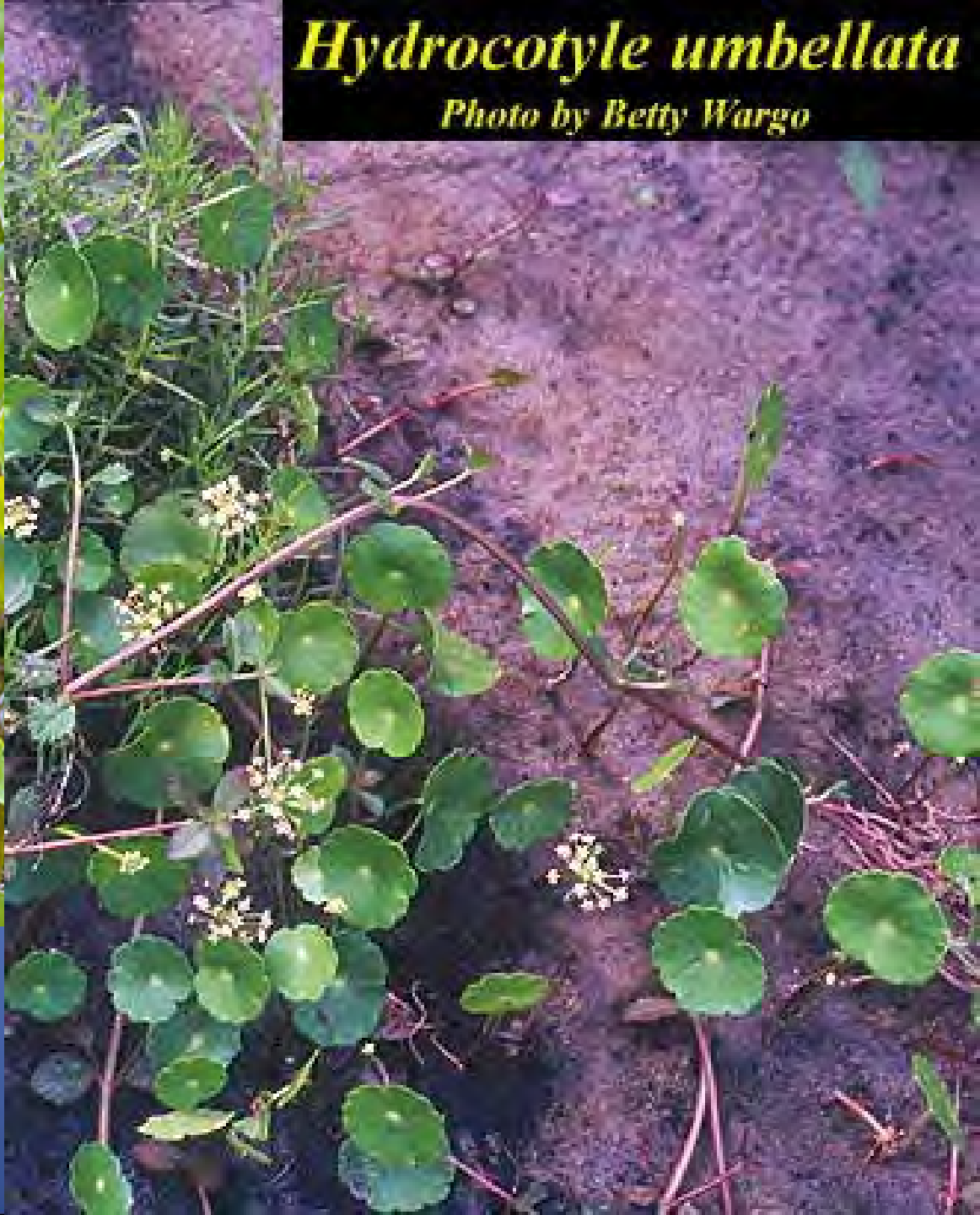
Cirsium horridulum
Photo by Betty Wargo





Centella asiatica
Photo by James Burkhalter

Dichondra carolinensis
Photo by Keith Bradley



Hydrocotyle umbellata
Photo by Betty Wargo

Drymaria cordata

Photo by Dennis Girard



Phyla nodiflora
Lippia nodiflora

Turkey tangle frogfruit

WAP Zone: AD



Gratiola ramosa

Photo and © by Roger Hammer
Wildflowers of the Everglades



Gratiola ramosa

Conyza canadensis

Brother Alfred Brousseau
copyright 1995 Brother Eric Vogel F.S.C.,
St. Mary's College of California



Lepidium virginicum

Photo by Keith Bradley



Commelina diffusa

Common dayflower

WAP Zone: T



Persicaria hydropiperoides
Photo by Shirley Denton



Persicaria hydropiperoides



Lycopus rubellus
Photo by Shirley Denton

Eupatorium capillifolium



Dogfennel



Eupatorium leptophyllum



Falsefennel



Ptilimnium capillaceum
Photo by Shirley Denton

Urena lobata
Photo by Patricia Howell



Phytolacca americana



American pokeweed



WAP Zone: U



*Amphicarpum
muhlenbergianum*



Blue maidencane



WAP Zone: OD



Axonopus furcatus



Carpetgrass



WAP Zone: AD

Paspalum setaceum

Thin paspalum

WAP 2



Paspalum conjugatum

Photo by Shirley Denton



Paspalum notatum

Bahiagrass

WAP Zone: U



Stenotaphrum secundatum

St. Augustinegrass

WAP Zone: AD



Andropogon glomeratus



Andropogon virginicus



Andropogon glomeratus
var. *glaucopsis*



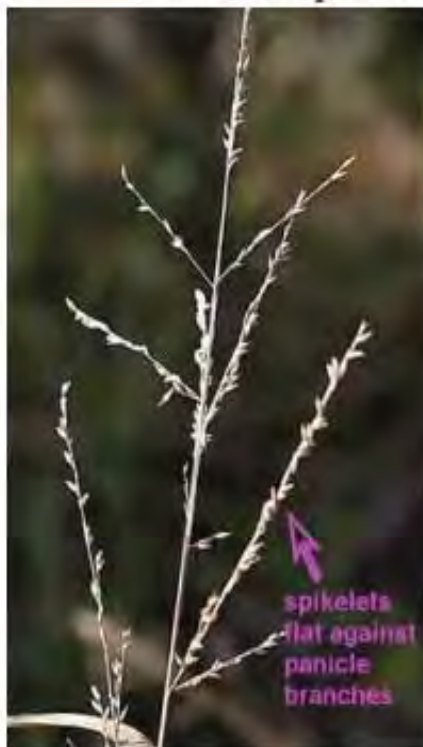
blade
flat

purple
base

Panicum anceps



Beaked panicum



WAP Zone: AD



Panicum rigidulum



Redtop panicum



WAP Zone: OD





Questions?

dwillis@gpinet.com