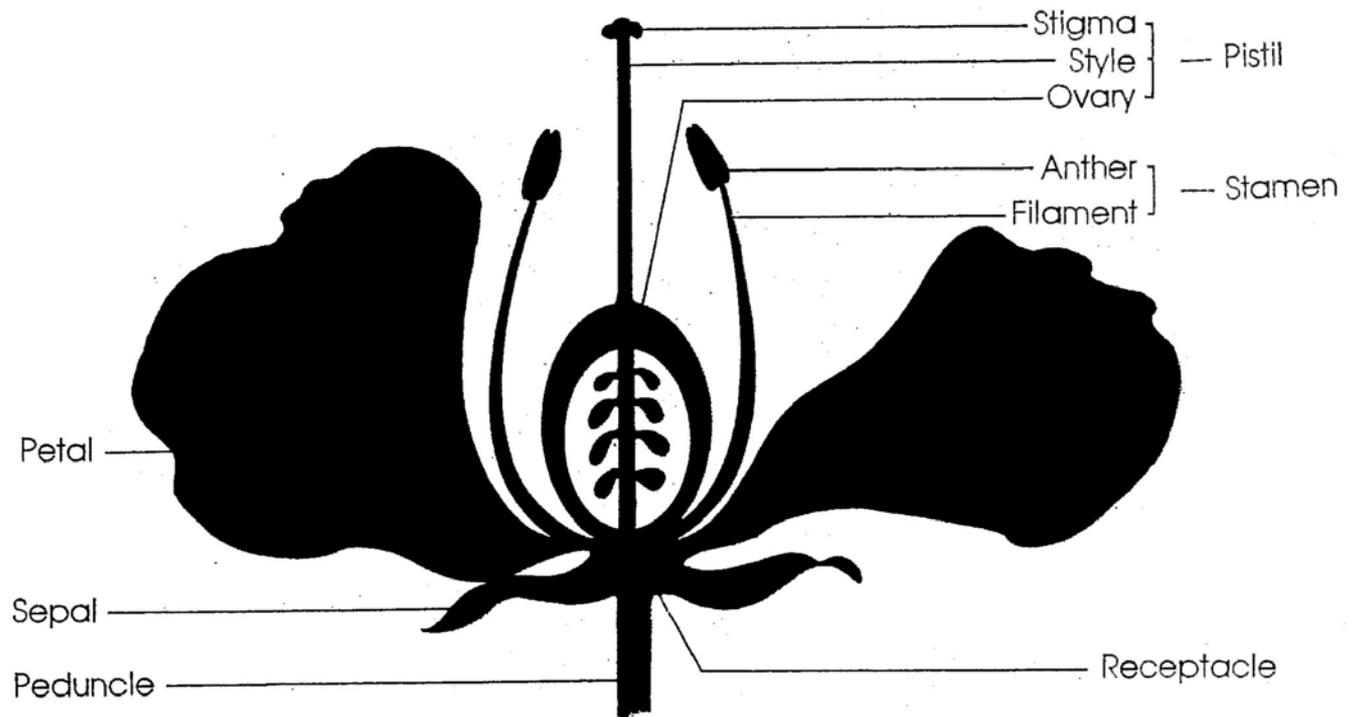


BWSR NRCS Wetland Plant ID Training 2009

Wetland Forbs

Flower Structure

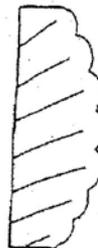


Leaf Structure

LEAF MARGINS



A. Entire



B. Crenate



C. Crenulate



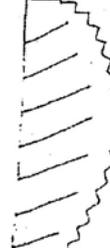
D. Serrate



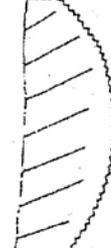
E. Serrulate



F. Doubly serrate



G. Dentate



H. Denticulate



I. Pinnately lobed

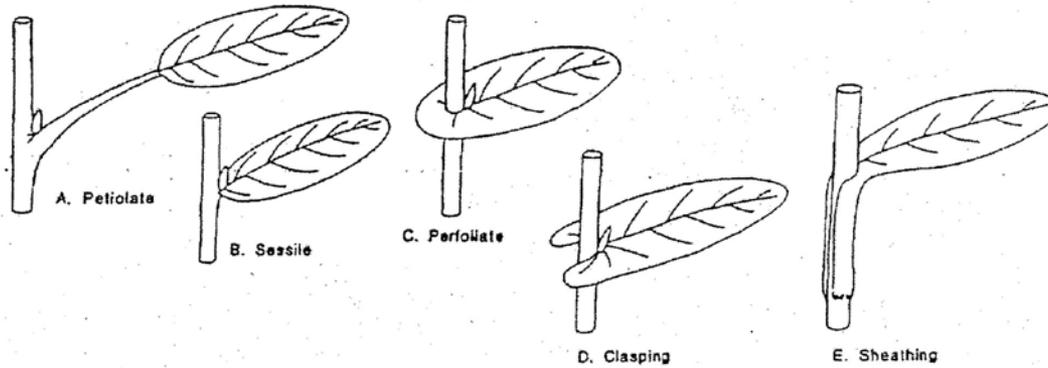
Leaf Margins:



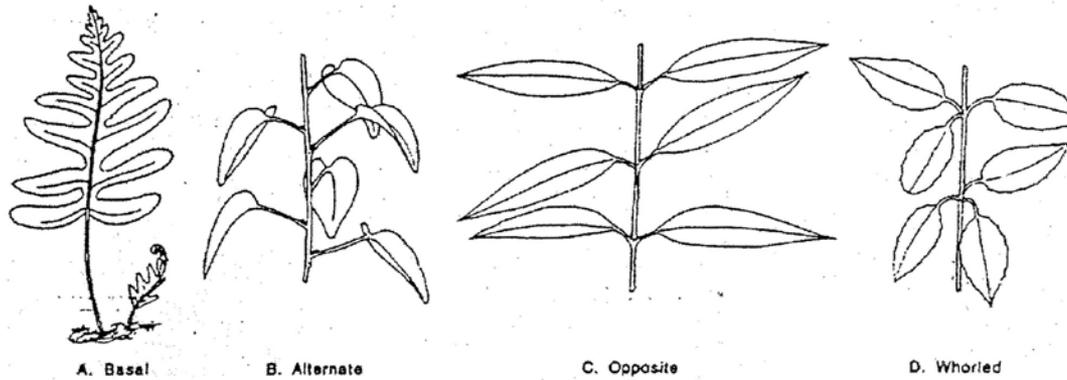
J. Palmately lobed

Leaf Structure

ATTACHMENT OF LEAVES TO STEMS



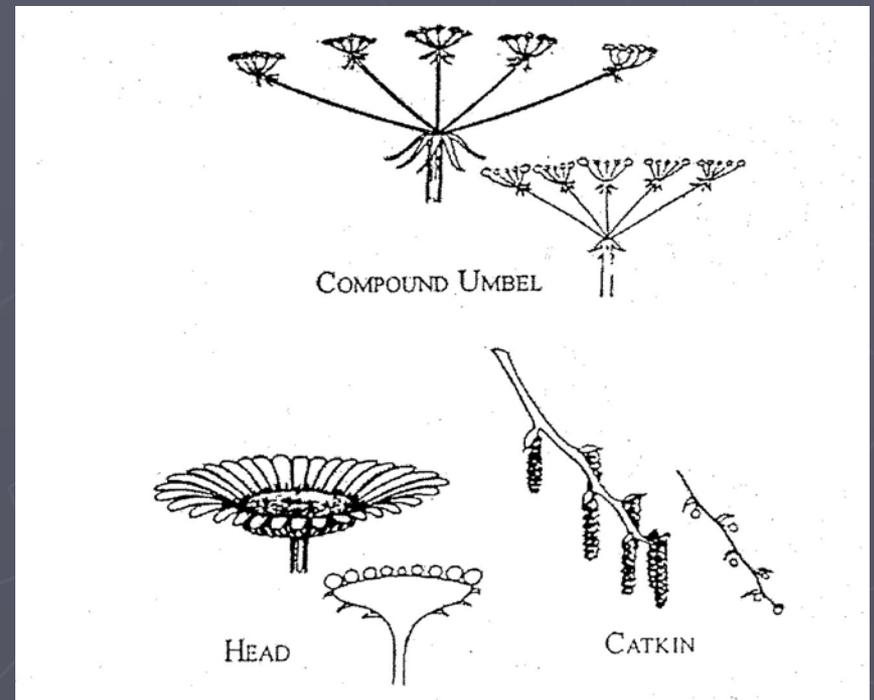
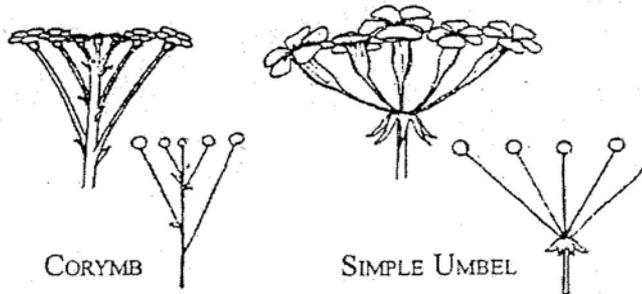
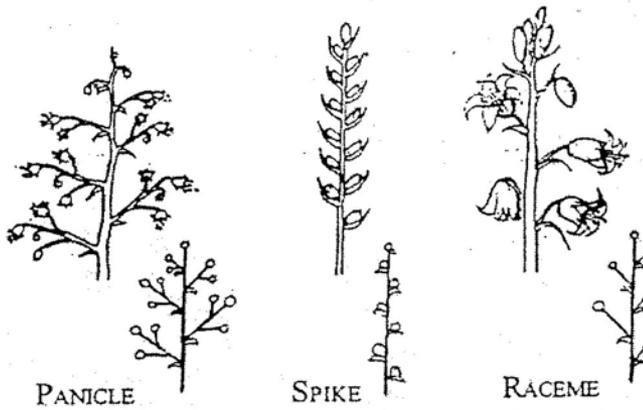
LEAF ARRANGEMENT



Inflorescence Structure

TERMS RELATIVE TO INFLORESCENCE

inflorescence- clustered aggregations of flowers



Mint

Bugleweed

[*Lycopus americanus*]

OBL



- Opposite coarsely toothed leaves
- Small white flowers in axils

Goldenrods

Giant Goldenrod [*Solidago gigantea*] FACW



- Alternate 3-veined leaves
- Wet sites

Smooth stem

Goldenrods

Canada Goldenrod
[*Solidago
canadensis*] FACU

- Stem hairy [top part esp.]
- Alternate leaves
- 3-veined
- Upland and transition areas



Stem Hairy



Composites

Cup-plant

[*Silphium perfoliatum*] FACW-

- Squarish stem
- Not a mint
- Rough leaf surface

Leaves appear perforated by stem forming a cup

Vervains

Blue Vervain
[*Verbena hastata*]
FACW+

Hoary Vervain
[*Verbena stricta*]
UPL



Fewer more stout spikes

Rounder Leaves

Milkweed Family

Common Milkweed
[*Asclepias syriaca*]

UPL

- Wide opposite leaves
- Milky sap



Milkweed Family

Swamp Milkweed

[*Asclepias incarnata*] OBL

- Tapering narrow leaves
- Milky sap
- Wet sites



Tapering narrow leaf

Boneset

[*Eupatorium perfoliatum*]

FACW+

- Coarsely toothed leaf
- Perfoliate
- Hairy stem



Smartweeds

Pennsylvania Smartweed
[*Polygonum pensylvanicum*]
FACW+

Water Smartweed
[*Polygonum amphibium*]
OBL



Thumbprint on leaf

Both at wet sites

Sneezeweed [*Helenium autumnale*]

FACW+



- Yellow flowers with three teeth at the end of each ray
- Winged stem

Three teeth



Sawtooth Sunflower

[*Helianthus grosseserratus*] FACW-



- Smooth stems
- Evident leaf stalks
- Drooping leaves
- Pale leaf underside covered with white hairs

Purple Loosestrife

[*Lythrum salicaria*] OBL



- Invasive
- Woody square stem
- Leaves lanceolate, opposite or whorled
- Spikes of purple-red flowers

Bur-reed – *Sparganium*

OBL (Family : Sparganiaceae)

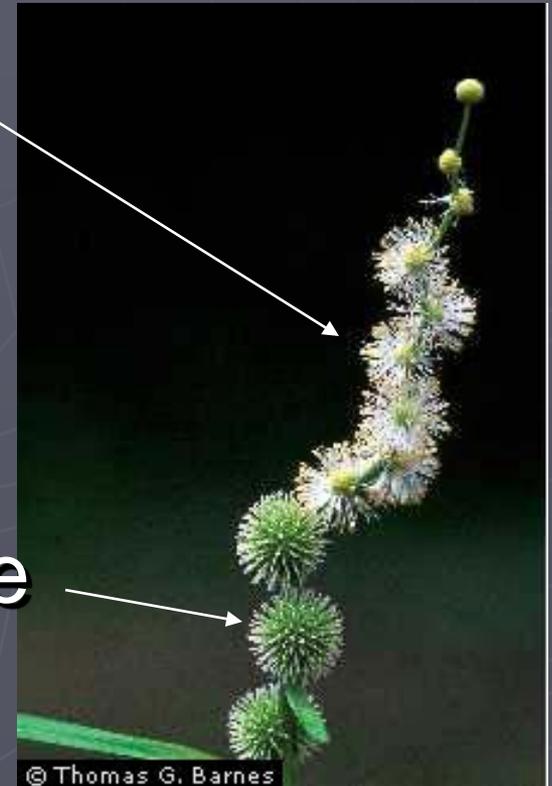


Triangular
cross-section



Male

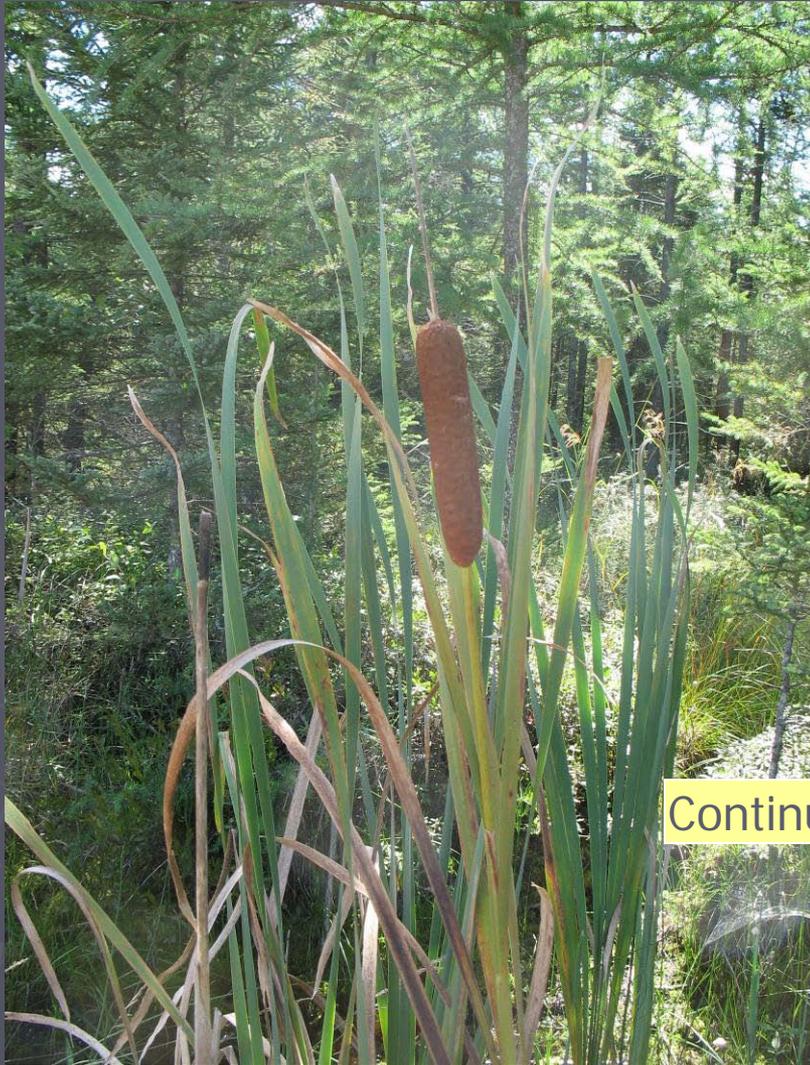
Female



Sparganium americanum

Broadleaf Cattail

[*Typha latifolia*] OBL



- Broad leaves usually don't extend past spike
- Upper staminate and lower pistillate portions of the spike are continuous

Continuous spike



Narrowleaf and Hybrid Cattail

[*Typha angustifolia*, *Typha X glauca*] OBL



- Leaves extend beyond spike
- Staminate and pistillate portions of spike separate



Gap in spike



Water Plantain

[*Alisma subcordatum*] OBL



- Leaves elliptical or egg shaped on long stalks
- White or pinkish flowers about 1/8" wide
- Found along muddy shores



Robert H. Mohlenbrock @ USDA-NRCS PLANTS Database / USDA NRCS, 1995.

Broad Leaf Arrowhead

[*Sagittaria latifolia*] OBL



- Flowers grow in whorls of 3 from an unbranched stalk
- Leaf shaped like an arrow head

Harlequin Blue Flag Iris

[*Iris versicolor*] OBL

- Deep purple base
- Blue flower with large yellow center
- Found in the North



Large Yellow Center



Virginia Iris

[*Iris virginica*] OBL



Mostly green base

- Green base
- Purple flower with small yellow center
- Found in the south



Small yellow center



Sweet Clover

[*Melilotus officinalis*] FACU



- Flowers can be yellow or white
- Leaves divided into 3 leaflets
- Non-native



Wild Parsnip

[*Pastinaca sativa*] UPL



- Should be listed as a noxious weed
- Contact with the plant can cause a sun-induced rash
- Compound umbel of yellow flowers
- Can be distinguished from similar native plants by its pinnately lobed leaves and tall growth habit.

Stinging Nettle

[*Urtica dioica*] FAC+



- Stem densely covered with stiff stinging hairs
- Leaf is egg shaped with serrated edges
- Square stem with opposite leaves

Glossy buckthorn

[*Frangula alnus*] FAC+



<http://www.uvm.edu/~alarosa/nr260/images/alderbuckthorn1.jpg>

- Non-native shrub
- Wavy leaf margins lack teeth
- Glossy leaves
- No thorns at the end of branches



Robert H. Mohlenbrock @ USDA-NRCS PLANTS Database / USDA SCS. 1989

Common Buckthorn

[*Rhamnus cathartica*] FACU



- Invasive shrub
- Toothed leaf margins
- Leaf veins curve up toward leaf tip
- Stem ends in a thorn



Common Ragweed

[*Ambrosia artemisiifolia*] FACU



- Leaves divided into narrow segments that are irregularly toothed or lobed.
- Male flowers in raceme, female flowers in leaf axil.

