

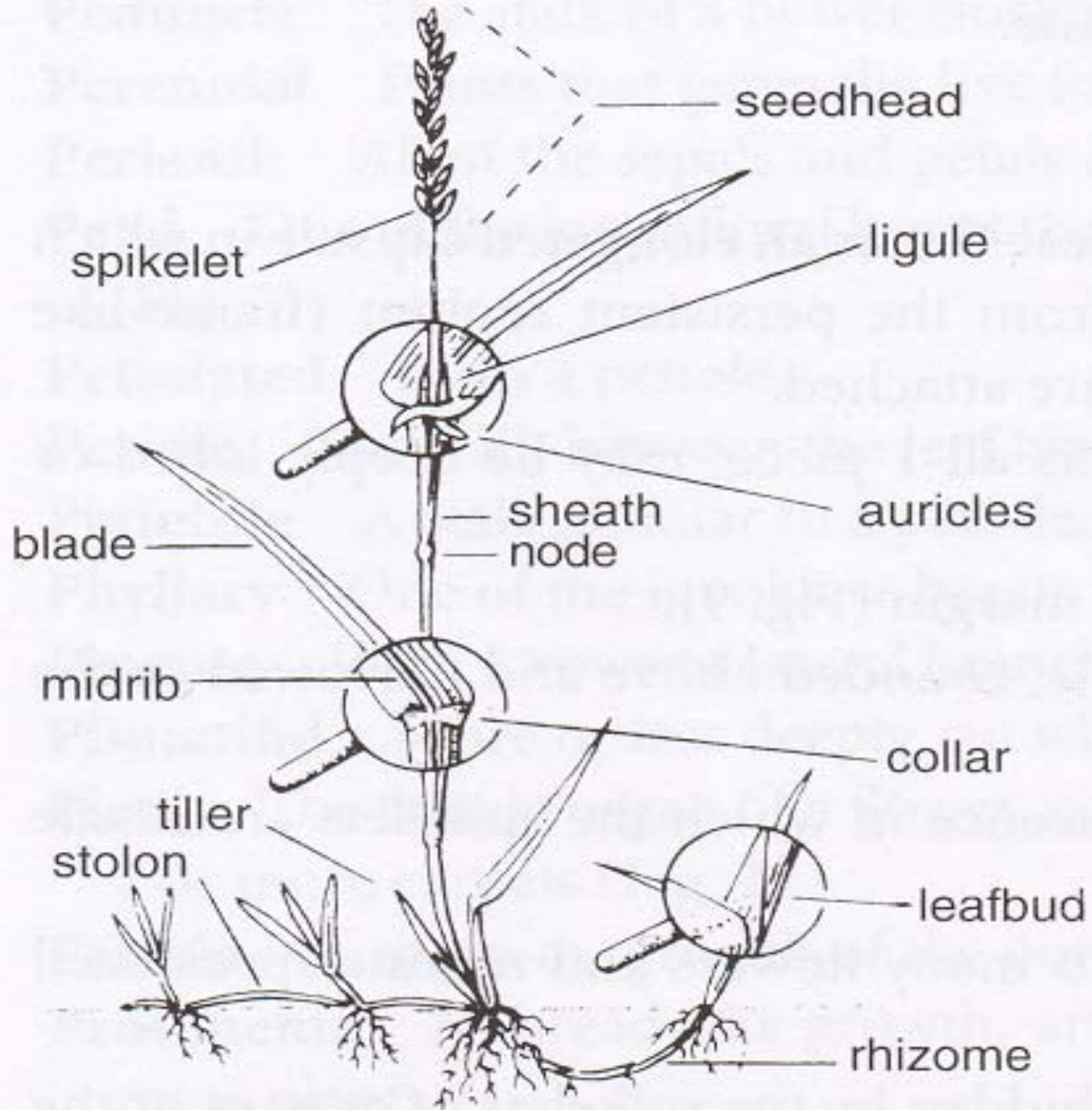
**Mark Williams, PhD.**  
**University of Kentucky**  
**Department of Horticulture**

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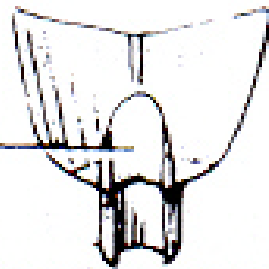
**<http://www2.ca.uky.edu/sustainableag/>**

# Parts of a Grass Plant

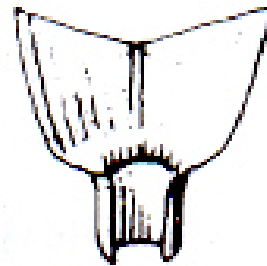


Ligules may be

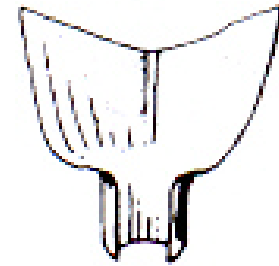
ligule



membranous



hairy



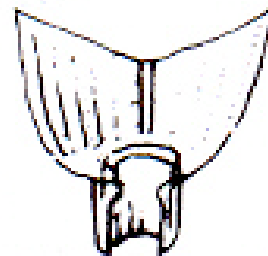
absent

Auricles may be

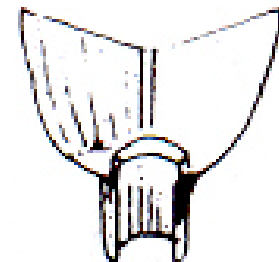
auricle



long, claw-like



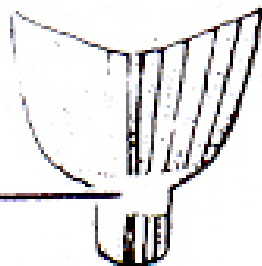
short, stubby



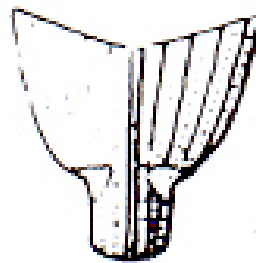
absent

Collars may be

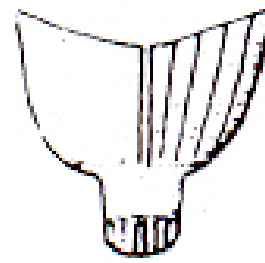
collar



continuous



divided

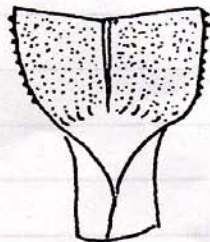


broad or narrow

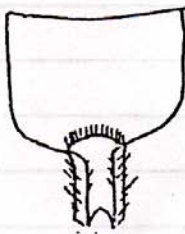
# **Weed Identification: Grasses and Sedges**

- 1. Stem Type: round, flat, triangular**
- 2. Ligule Type: absent, hairy, membraneous**
- 3. Blade Type: hairy or glabrous, midrib prominence and color, margin, auricles**
- 4. Sheath Margins: split with overlapping margins, united**
- 5. Root Systems: perennial with creeping rhizomes, annual**

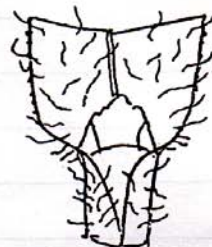
IDENTIFICATION OF COMMON WEEDY GRASSES BY VEGETATIVE CHARACTERISTICS



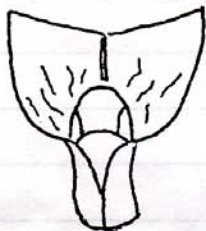
Barnyardgrass



Broadleaf signalgrass



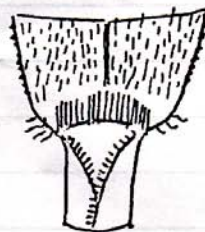
Large (hairy) crabgrass



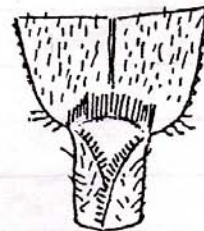
Smooth crabgrass



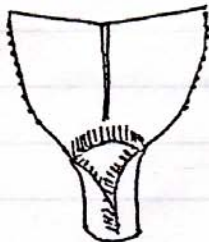
Dallisgrass



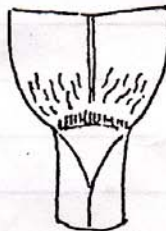
Giant foxtail



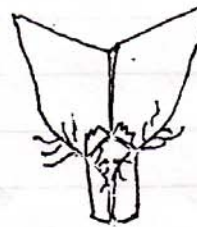
Giant foxtail



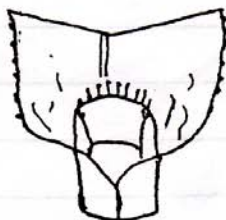
Green foxtail



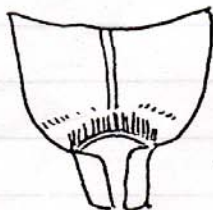
Yellow foxtail



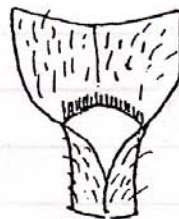
Goosegrass



Johnsongrass



Fall panicum



Texas panicum



Sandbur

# Identifying Broad Leaf Weed Seedlings

1. Cotyledons (Seed Leaves): shape, venation, hairy or glabrous, coloration
2. True Leaves: arrangement on stem, shape, margins, venation, hairy or glabrous, pinnately or palmately lobed
3. Root System: perennial or annual
4. Other Characteristics: stem hairiness, odor, ocreas

# Life Cycles of Plants

perennial



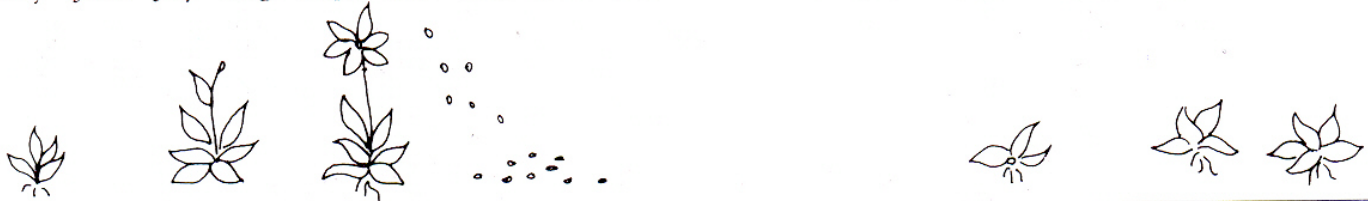
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

biennial



Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

winter annual



Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

summer annual



Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

# Web Sites for Weed Identification

University of Illinois and the Illinois Council on Food and Agricultural Research.

<http://web.aces.uiuc.edu/weedid/>

- This site contains a key that allows you to choose characteristics of the leaves, stems, roots, flowers, etc. As each characteristic is chosen, a list of possible weeds develops along with photos. There are 172 species included in the list. The list of weeds and photos can also be used without the key.



# Web Sites for Weed Identification

Virginia Tech

<http://www.ppws.vt.edu/weedindex.htm>

- This site contains a long list of weeds and their photos. There is a key for identifying grass weeds, but not currently for broadleaf weeds. The key is navigated by answering a series of questions accompanied by photos depicting important identification traits. Because grass taxonomy can be difficult, having the photos is helpful.

# Web Sites for Weed Identification

WeedAlert.com (PBI/Gordon)

<http://www.weedalert.com/>

- This site provides monthly updates on weed problems in different regions of the United States. In addition, you can check the average germination dates for specific weeds in a specific geographic area. Unlike many of the other Web sites, there are written descriptions of plant growth habits, flowers and information on what type of conditions the weed thrives in.

# Web Sites for Weed Identification

Rutgers Cooperative Extension

<http://www.rce.rutgers.edu/weeds/>

Weed Science Society of America

<http://www.wssa.net/>