Rice Weed Identification

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Keying Out vs Recognizing Plants

• Taxonomists use floral parts
  – Least affected by environment
  – Lots of differences

• Agriculturists use vegetative parts
  – Cannot wait until reproductive state
  – Fewer and more subtle differences
  – May be affected by environment
  – Restricted to fewer plants
Typical Grass Spikelet

- awn of lemma
- stamens
  - anthers
  - filament
- palea
- inner glume
- outer glume
- stigmas (2) of pistil
- Lemma (fertile)
- ovary of pistil
Typical Dicot Flower (1)

- Filaments
- Anthers
- Stamens
- Stigmas and styles of pistil
Typical dicot flower (2)

- petals
- sepal
- corolla
- calyx
Diagnostic Grass Parts

- Ligules
- Auricles
- Leaf tips
- Appearance of youngest leaf
- Stolons and/or rhizomes
- Seeds
Examples of Grass Ligules

- None
- Row of hairs
- Membrane fringed with hairs
- Short membrane
- Long membrane
auricles
tapered leaf tip

blunt leaf tip
Appearance of Youngest Leaf

Rolled in bud  Folded in bud
Stolon of Rice Cutgrass

(Leersia oryzoides)
Rhizomes of Torpedograss
*(Panicum repens)*
Crown buds of Creeping Rivergrass (perennial barnyardgrass) – *Echinochloa polystachya*
Echinochloa sp.  

Panicum sp.
Barnyardgrass

Echinochloa crus-galli
Mannagrass

Glyceria declinata
Rice Cutgrass

Leersia oryzoides
Neally Sprangletop

*Leptochloa nealleyi*
Amazon or Tighthead Sprangletop

*Leptochloa panicoides*
Red Sprangletop

*Leptochloa filiformis*
Mexican Sprangletop

*Leptochloa uninervar*
Fall Panicum

Panicum dichotomiflorum
Torpedograss

Panicum repens
Brook Paspalum or Canoe grass

Paspalum acuminatum
Knotgrass

*Paspalum distichum*
Water Paspalum

*Paspalum hydrophilum*
Diagnostic Broadleaf Parts

- Leaf margins
- Leaf arrangement
- Leaf attachment
- Leaf shape

- Leaf types
- Stem properties
- Flower arrangement
- Specialized parts
Texasweed
Caperonia palustris

Copperleaf
Acalypha ostryifolia

serrate leaf margins
Alligatorweed

*Alternanthera philoxeroides*

Toothcup

*Rotala ramosior*
Purple Ammania

*Ammania coccinea*

Toothcup

*Rotala ramosior*
septate stem

ocrea

septa

septae

stipule
pinnately compound leaf

1\textsuperscript{st} true leaf

cotyledons

2\textsuperscript{nd} true leaf
Water Starwort  *Callitriche heterophylla*

- **spatulate floating leaves**
- **filiform submersed leaves**
Smartweed
*Polygonum sp.*

Jungle Rice,
*Echinochloa colonum*

anthocyanin pigment
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