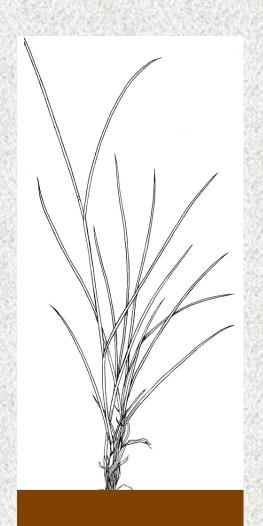


1. Grasses

- jointed stems (nodes)
- leaves in 2 rows on stem
- veins in leaves are parallel



2. Grass-like plants

- sedges and rushes
- solid stems, no nodes
- sedges have triangular stems
- rushes have round stems





3. Forbs

- Broadleaf herbaceous plants, (wildflowers, weeds)
- leaves have net-like veins
- leaves have various shapes





4. Shrubs

 Persistent woody stems that remain alive from year to year





5. Cactus

 Fleshy succulent pads rather than stems, usually armed with spines



Plant Origin

1. Native

- Part of the original vegetation of N.A.
- Ex.: Switchgrass, little bluestem, indiangrass, western wheatgrass
- 2. Introduced (= exotic)
 - Brought in from outside N.A.
 - Ex.: Smooth bromegrass, Kentucky bluegrass, musk thistle

Plant Life Span

1. Annual

 Downy brome, crabgrass, sandbur, horseweed, lambsquarters

2. Biennial

Musk thistle, sweet clover

3. Perennial

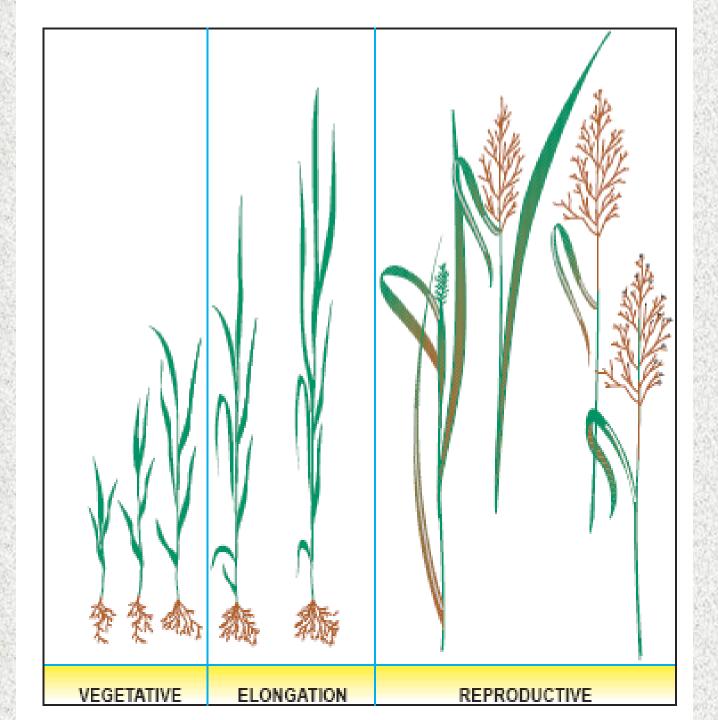
Switchgrass, smooth bromegrass, orchardgrass



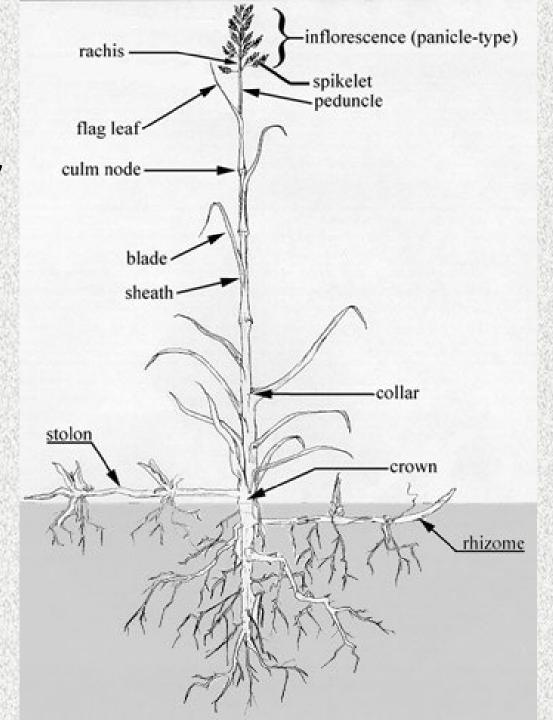
Weed

- A plant that is not valued where it is growing.
 Often vigorous and tends to out-compete desirable plants.
- Native
- Exotic (= introduced)
 - Origin is from outside North America.
- Invasive species
 - Highly aggressive and competitive.
- Noxious
 - State / county classification requiring control.





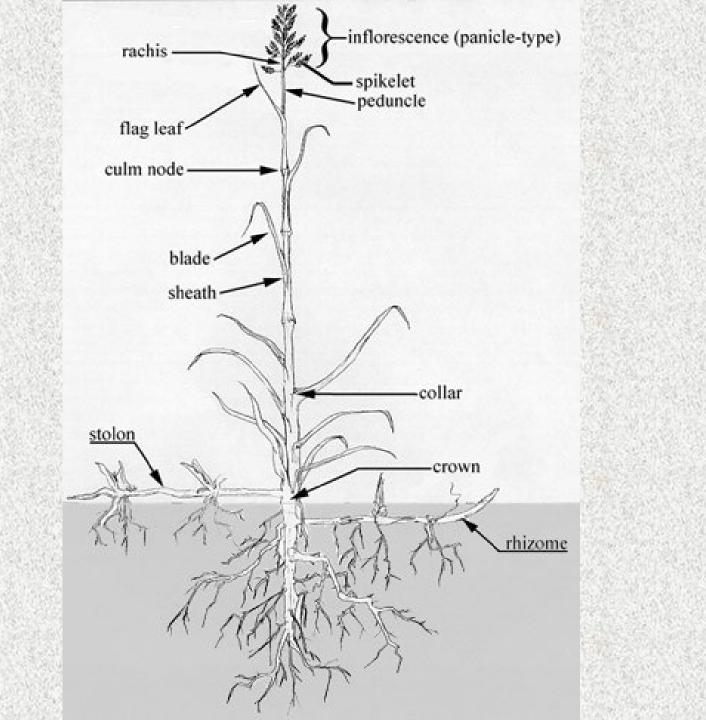
Grass Tiller

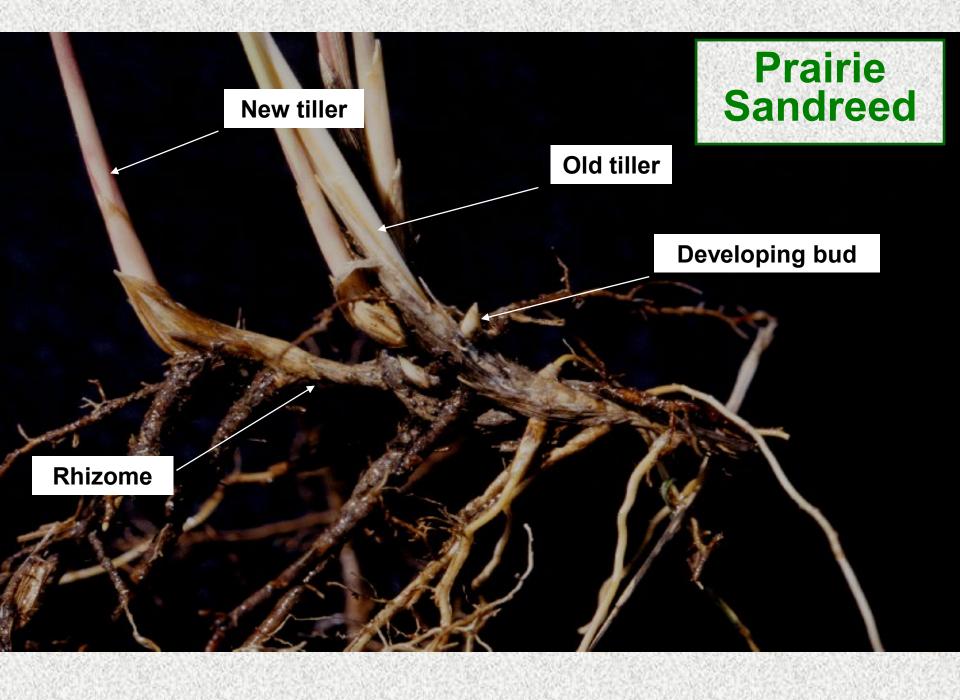


Little
Bluestem
(bunchgrass)







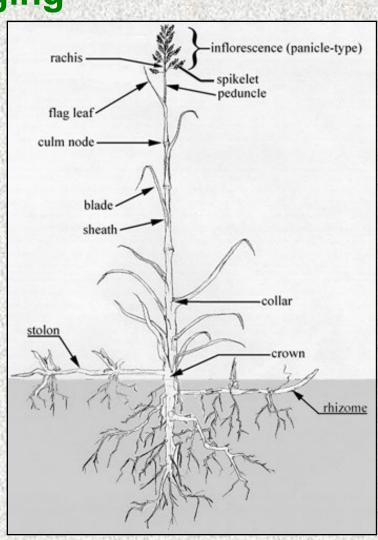


Plant Identification:

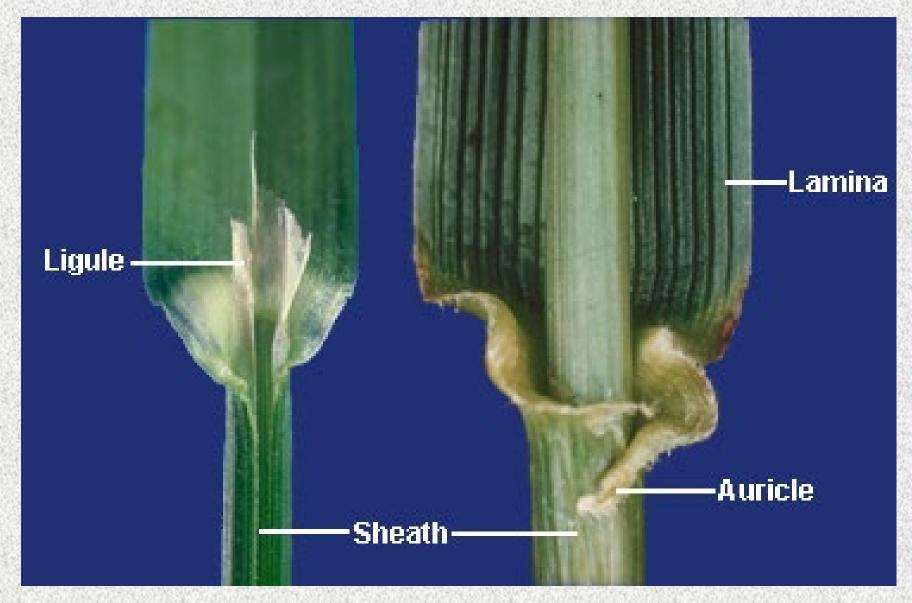
Knowing what you are managing

Characteristics for Grasses

- Bunch or sod-forming
- Seedhead
- Plant color
- Leaf shape, size, veins, texture
- Sheath
- Absence or presence of hair
- Ligules
- Collar
- Auricles



Plant Identification

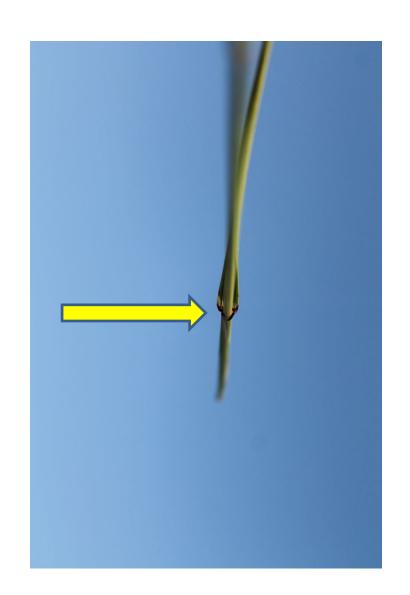


Clues to Identify- Auricle

Auricles- "ears"

 Little ears that wrap around stem

This is western wheatgrass



Clues to Identify- Ligule

Ligule- paperlike flap

- Needleandthread
- Reed Canarygrass



Clues to Identify- Hairs



Hairy Examples:

Hairs around collar- Sand Dropseed

Tuft of hair at collar- Sand Lovegrass

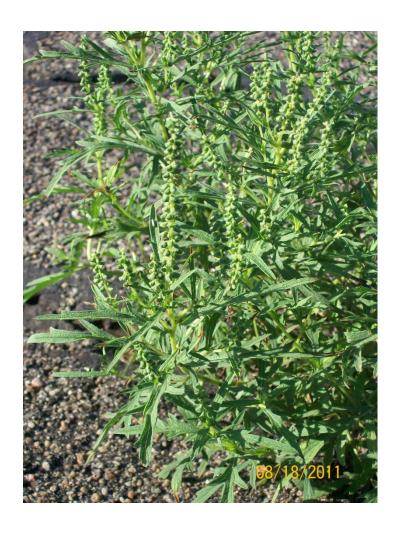
Patch of hair at "armpit"-Switchgrass

Long hairs off leaf blade- Blue Grama

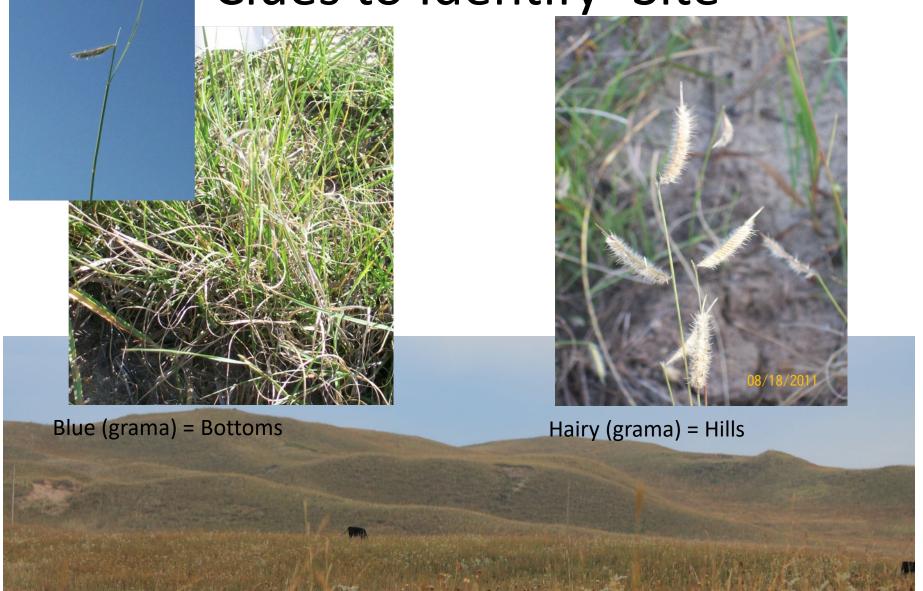
Clues to Identify- Smell

Sage- Cudweed Sagewort Lemon- Lemon Scurfpea Stinky- Western Ragweed









Clues to Identify- Leaf Shape



