

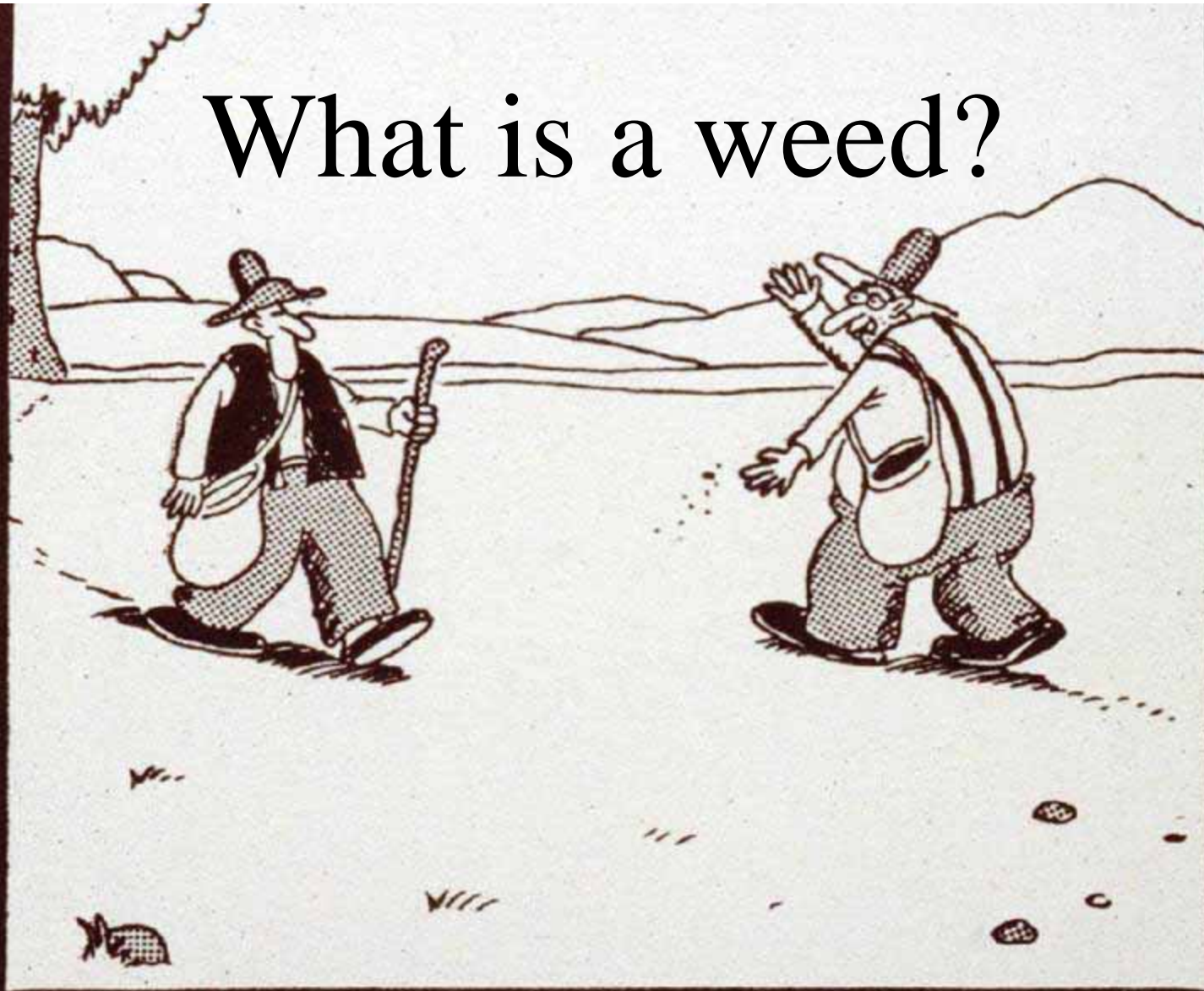
# Weed Identification

Dallas Peterson

Kansas State University



# What is a weed?



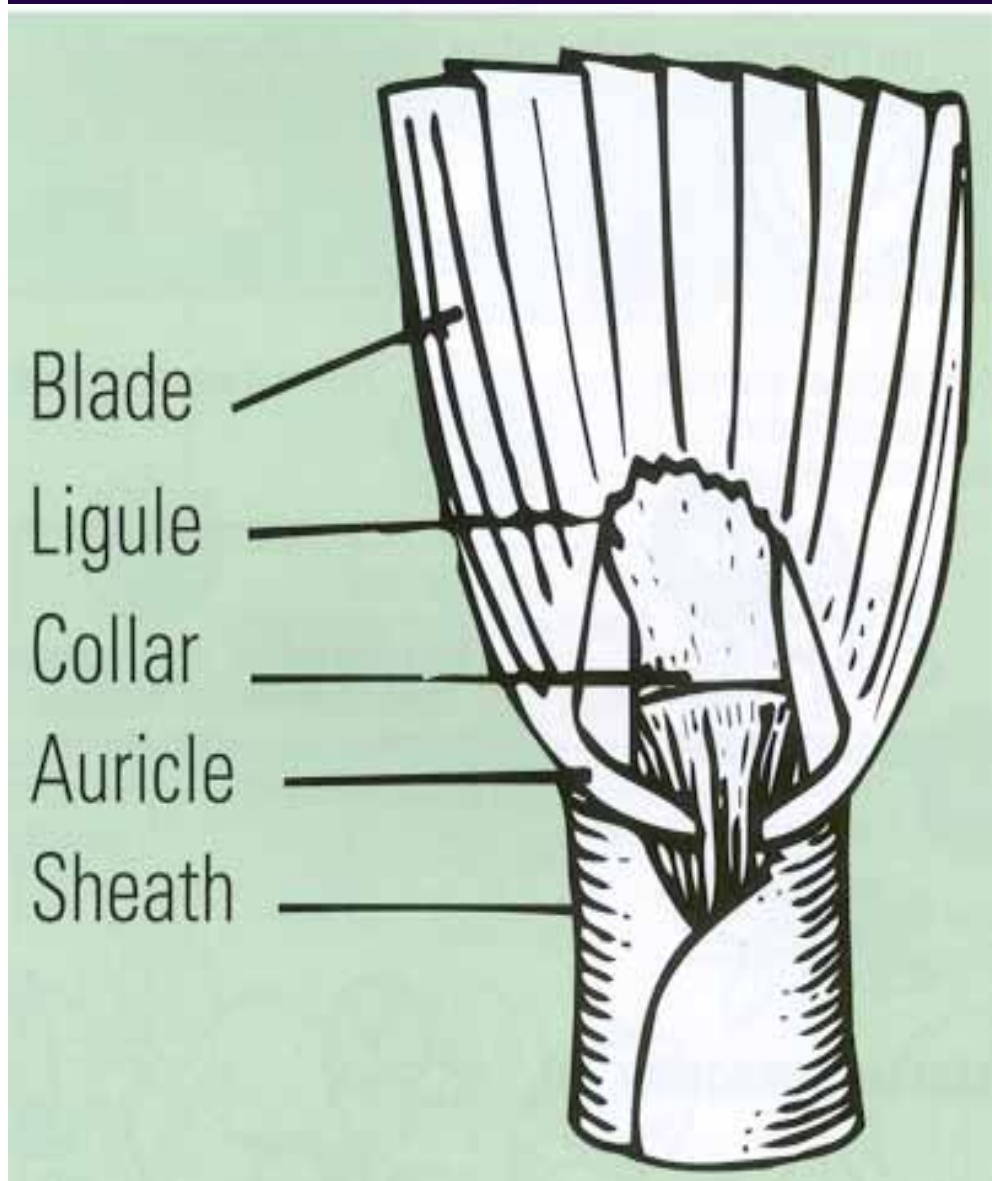
**Crossing paths on their respective journeys of destiny, Johnny Appleseed and Irving Ragweed nod "hello."**

# Weed Seedlings



# Grass Seedling Identification

## Agriance Weed Identification guide



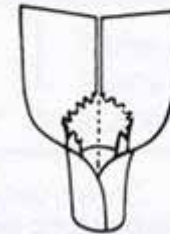
### Leaf or Sheath Pubescence (Hair)

Smooth

Hairy

Short Hair  
"Fuzz"

Long Hair



Shattercane



Giant  
Foxtail



Yellow  
Foxtail

Sheath  
Margin  
Hairy

### Leaf Twist

(Direction of twist is consistent on first leaves only)

Clockwise

Counter  
Clockwise

No Distinct  
Twist



Wheat  
Annual Bromegrasses  
Jointed Goatgrass  
Quackgrass

Wild Oat  
Oats

Most  
Grasses



# Auricles and ligule





# Ligule and Pubescence



# Barnyardgrass



# Barnyardgrass





# Barnyardgrass



# Green & Yellow Foxtail



# Green Foxtail



# Yellow Foxtail



# Giant Foxtail



# Giant Foxtail



# Large Crabgrass



# Large Crabgrass





# Large Crabgrass



# Large Crabgrass



# Fall Panicum



# Witchgrass



# Witchgrass



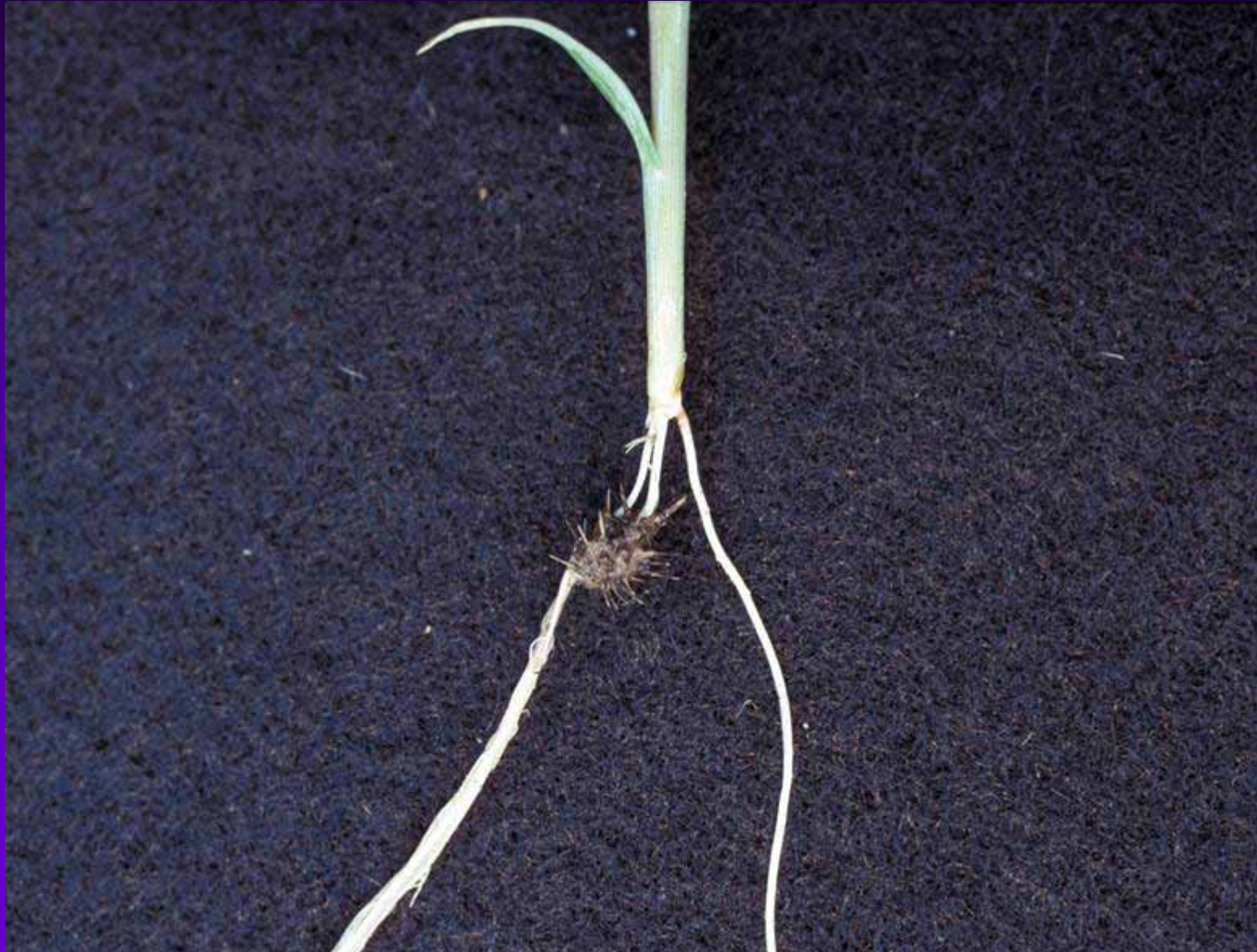
# Longspine Sandbur



# Longspine Sandbur



# Longspine Sandbur

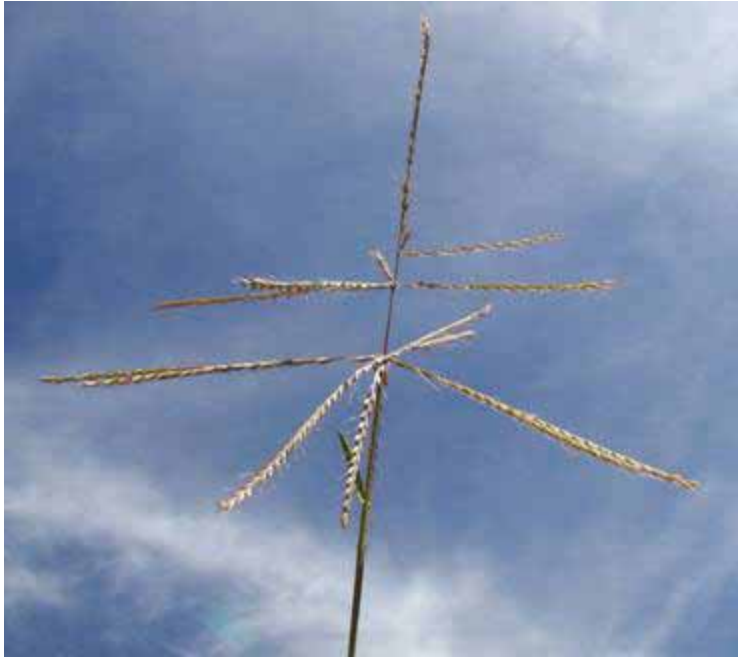




# Prairie Cupgrass



# Windmillgrass



# Johnsongrass



# Johnsongrass Rhizomes





# Shattercane



# Shattercane



# Shattercane/Johnsongrass



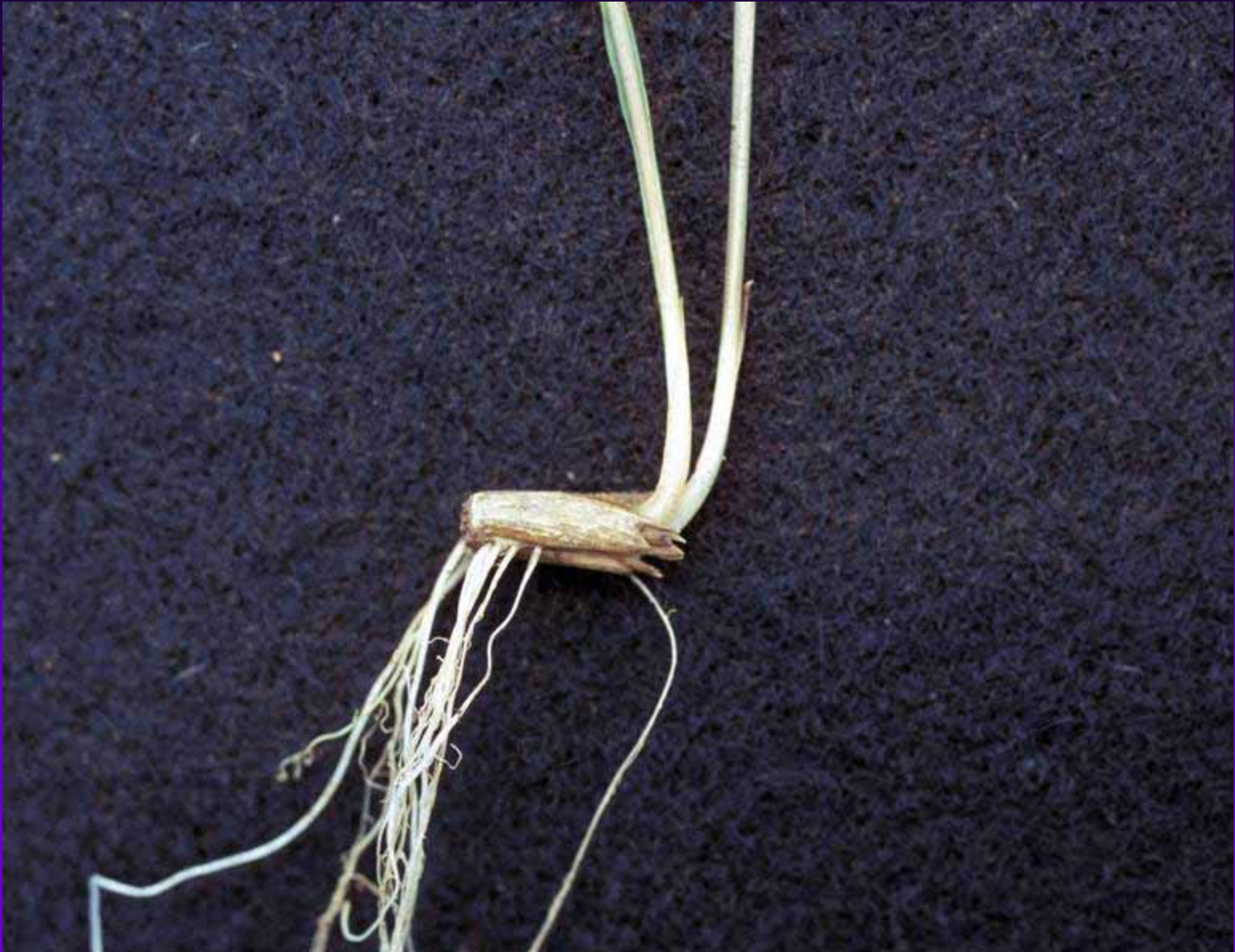


# Jointed Goatgrass





# Jointed Goatgrass



# Cheatgrass



# Cheat



# Cheat



# Cheat, Japanese Brome, Downy Brome



# Yellow nutsedge



# Yellow nutsedge



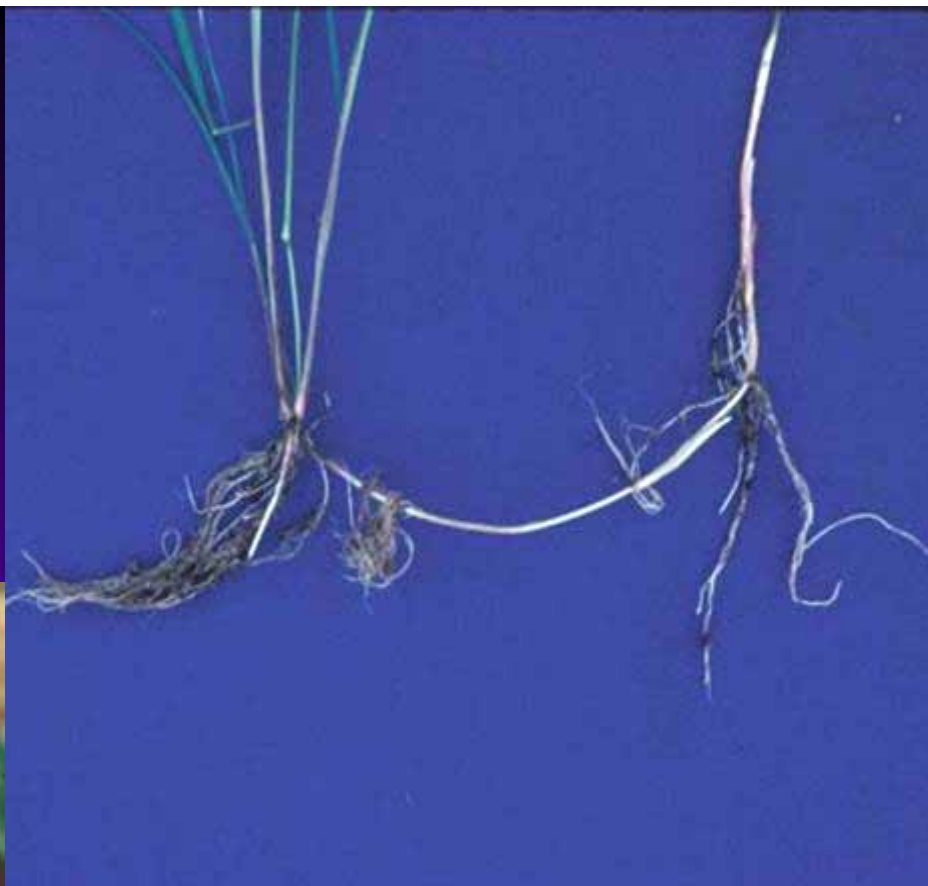


# Quackgrass





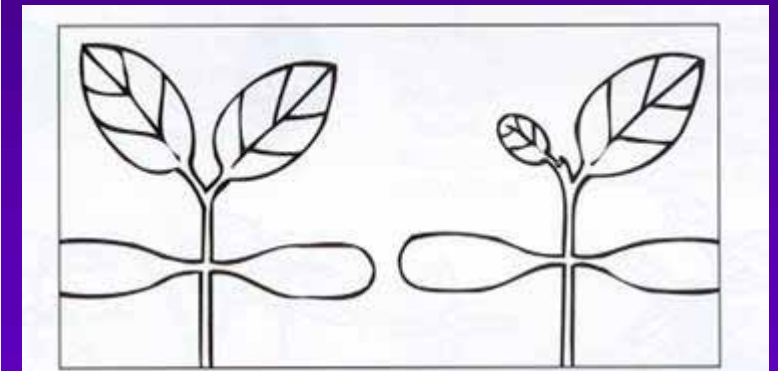
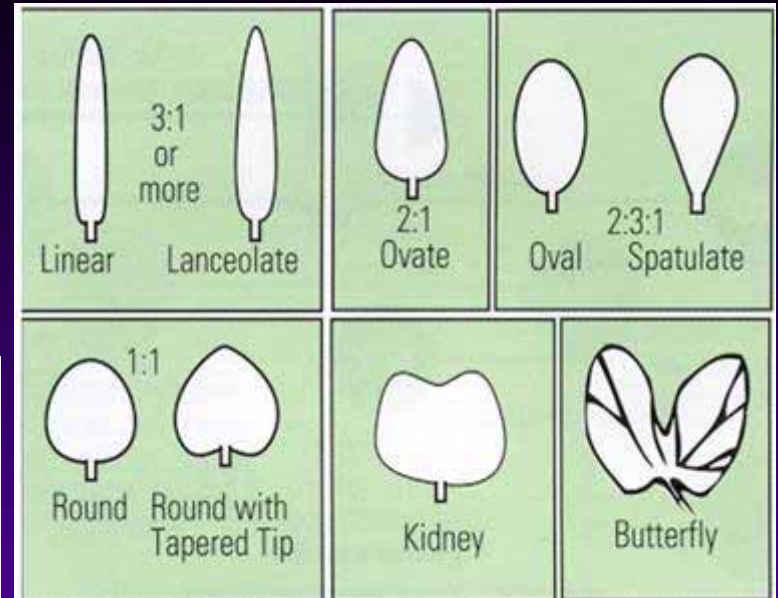
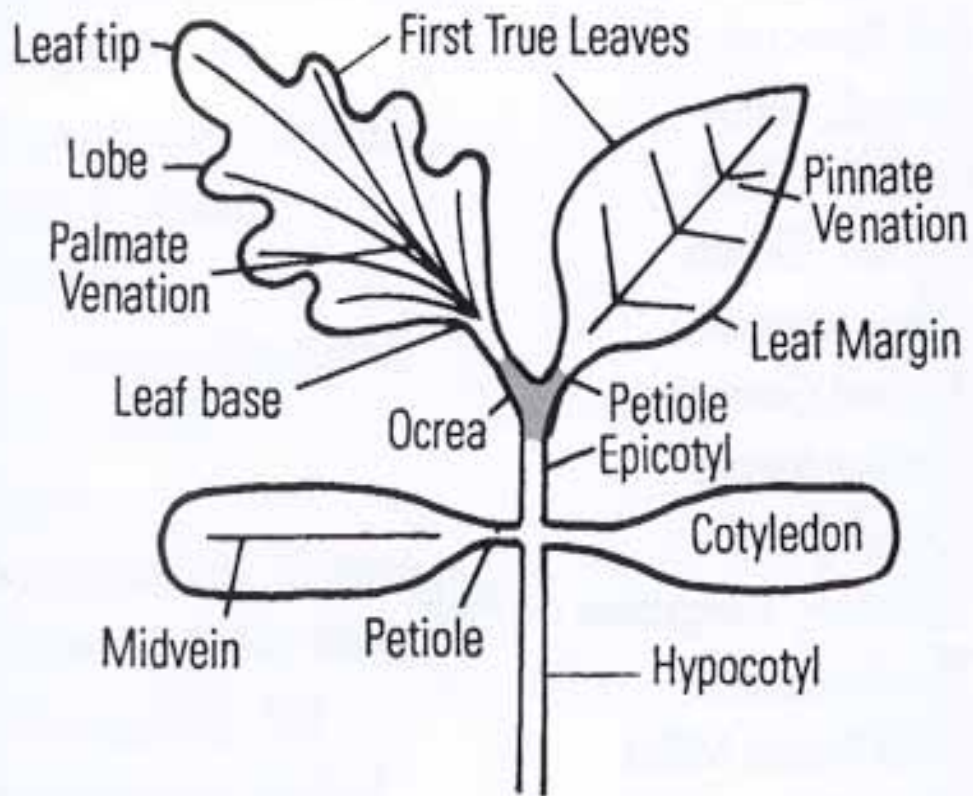
# Quackgrass Rhizomes



# Broadleaf Seedling Identification

## Agrilance Weed Identification Guide

### Vegetative Broadleaf Plant Parts



#### Opposite Leaves\*

- Paired leaves of similar size attached to opposite sides of the same node.

#### Alternate Leaves.

- One leaf per node.
- Newest leaf is smaller than preceding leaf.



# Common Cocklebur



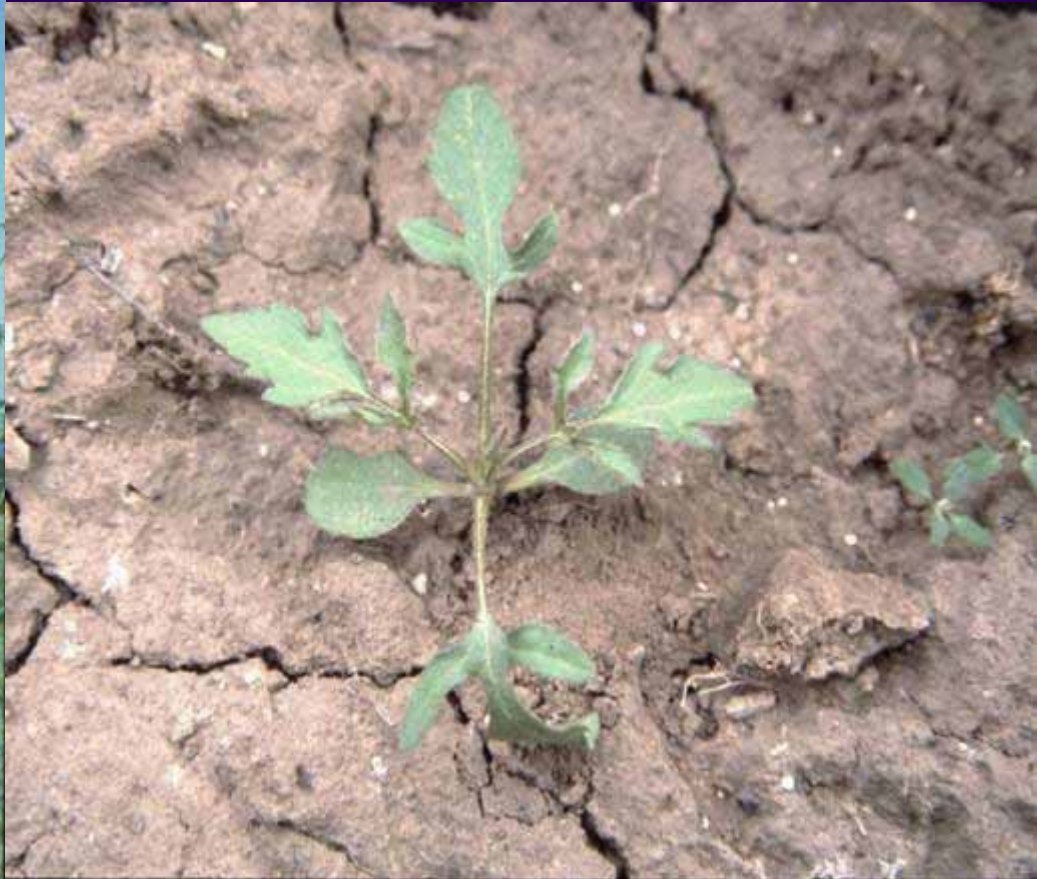
# Common Cocklebur



# Common Sunflower



# Giant Ragweed



# Common Ragweed



# Jimsonweed





# Velvetleaf



# Velvetleaf



# Venice Mallow



# Venice Mallow



# Prickly Sida



# Hophornbeam Copperleaf



# Devilsclaw



# Devilsclaw





# Pennsylvania Smartweed



# Eastern Black Nightshade



# Multiple Pigweed Species

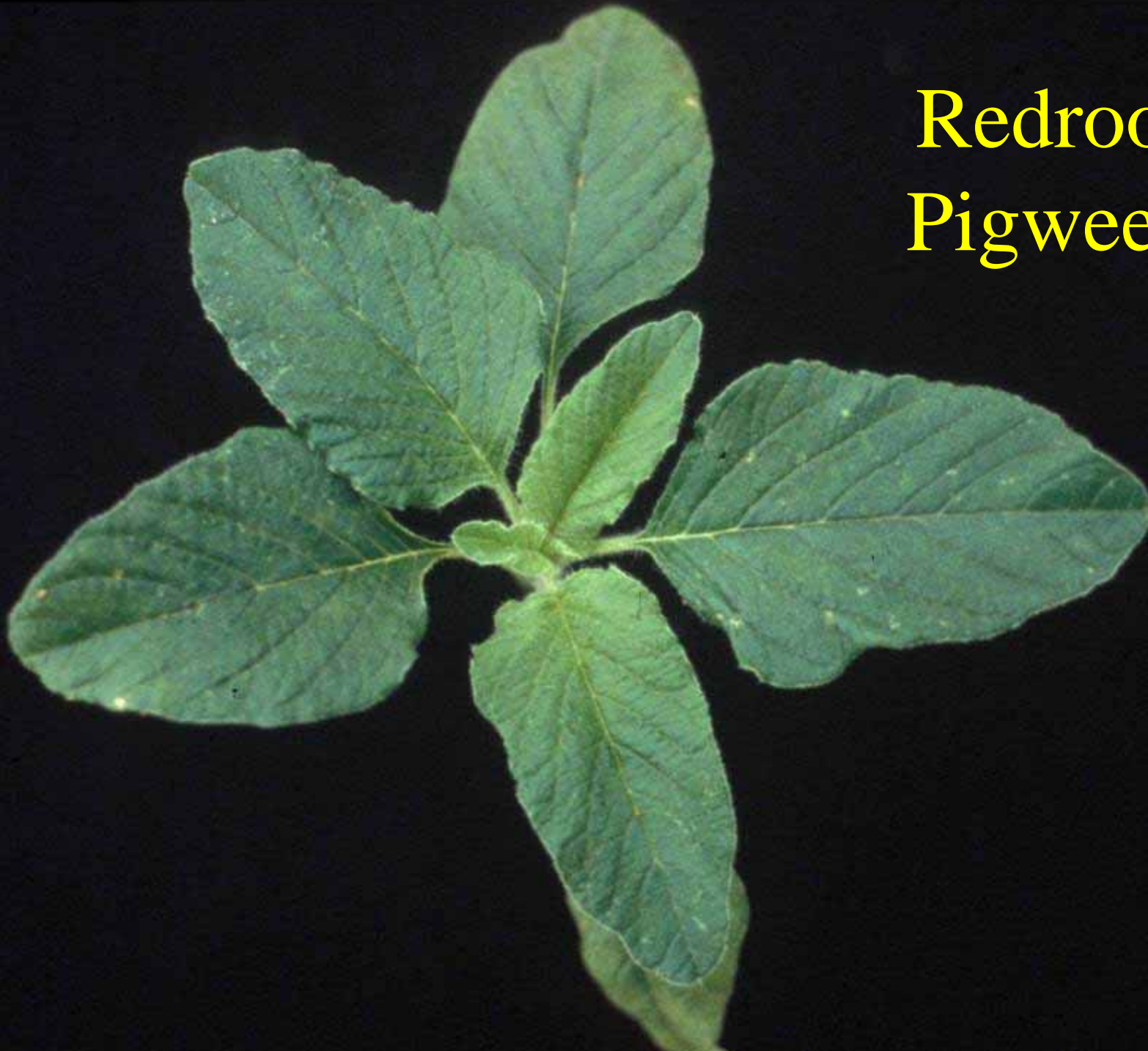
redroot pigweed, waterhemp, Palmer amaranth, tumble pigweed



# Redroot Pigweed



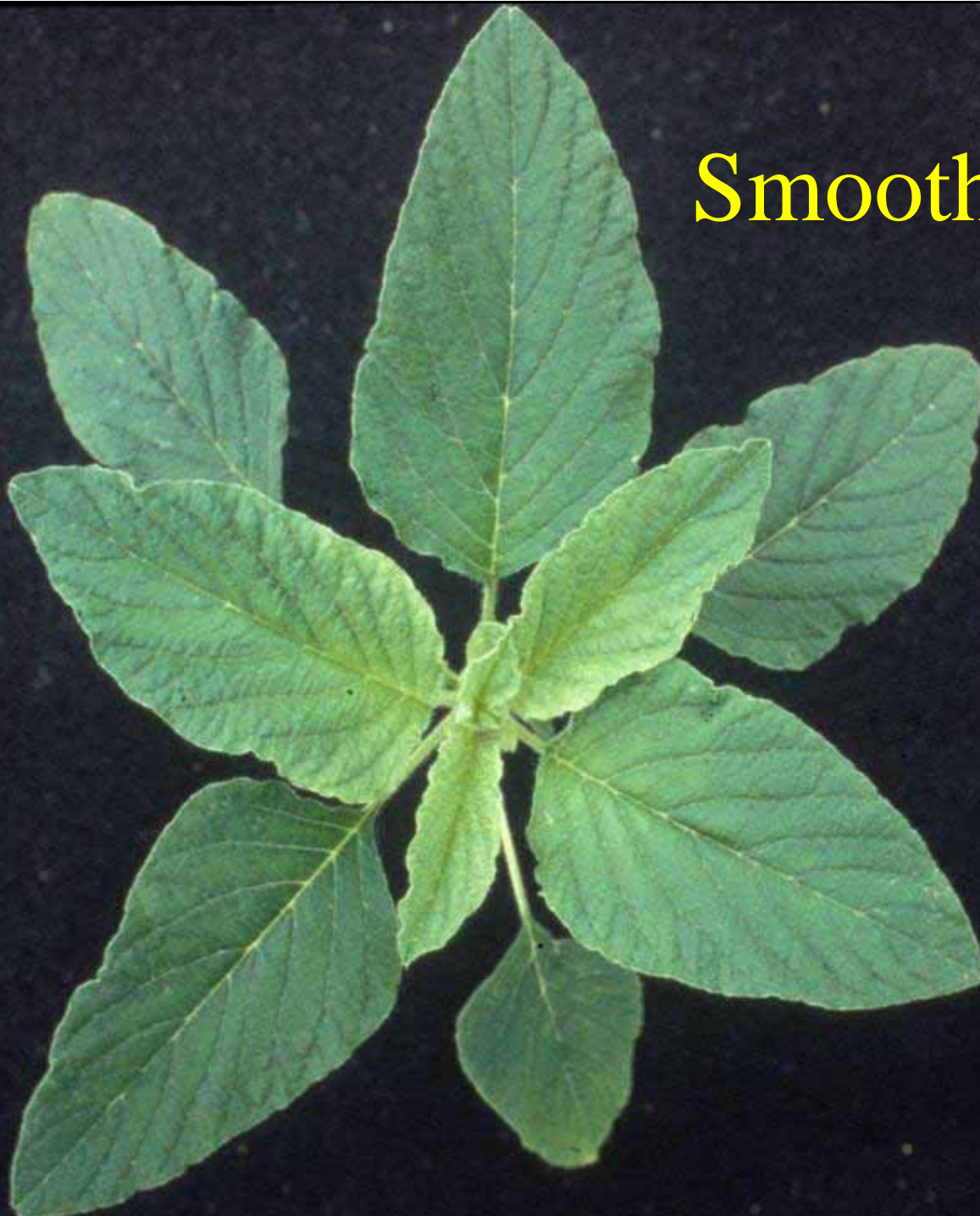
# Redroot Pigweed



# Smooth Pigweed



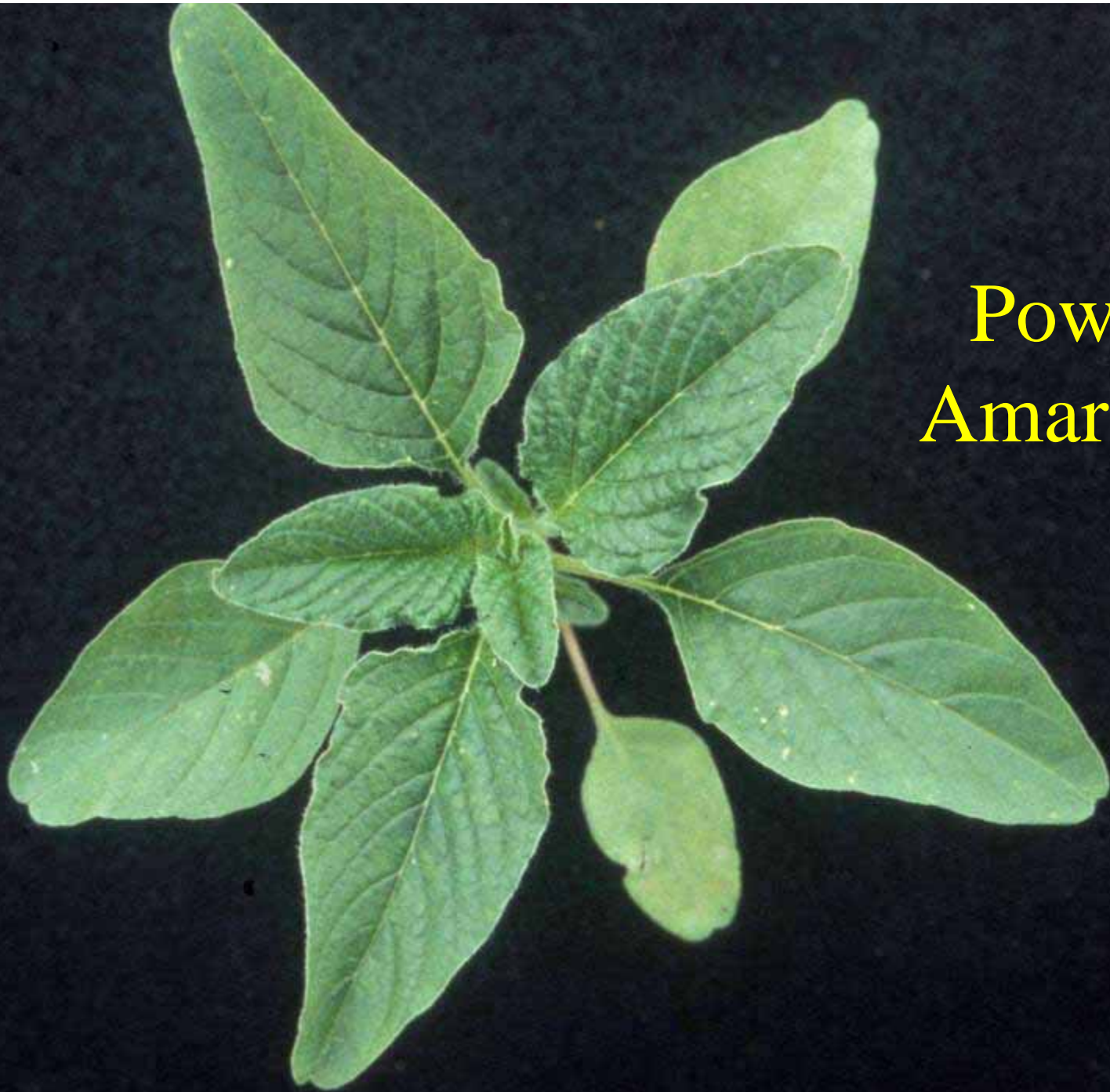
# Smooth Pigweed



# Powell Amarananth





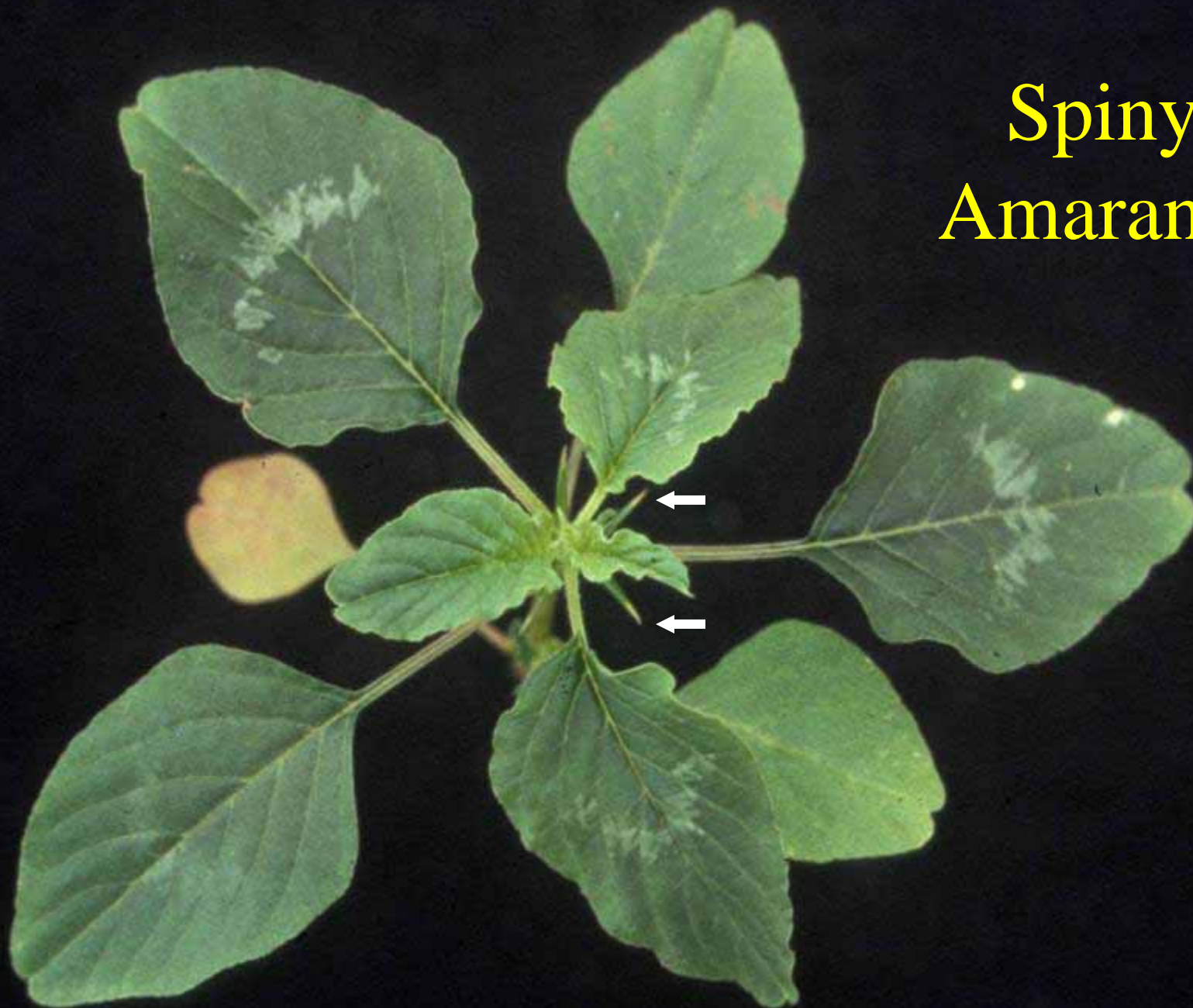


Powell  
Amaranth

# Spiny Amaranth

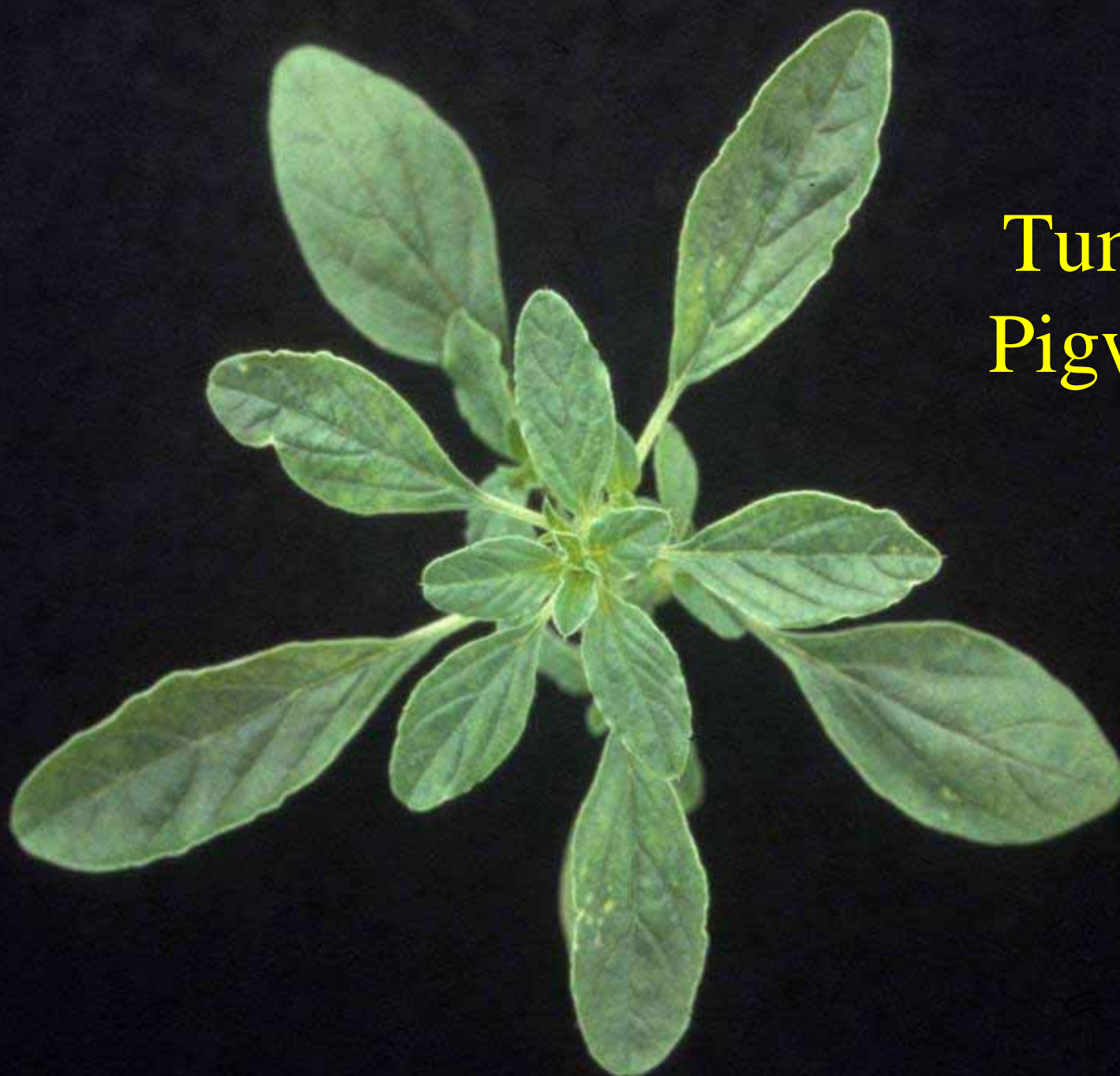


# Spiny Amaranth



# Tumble Pigweed





Tumble  
Pigweed

# Prostrate Pigweed



# Prostrate Pigweed



# Waterhemp





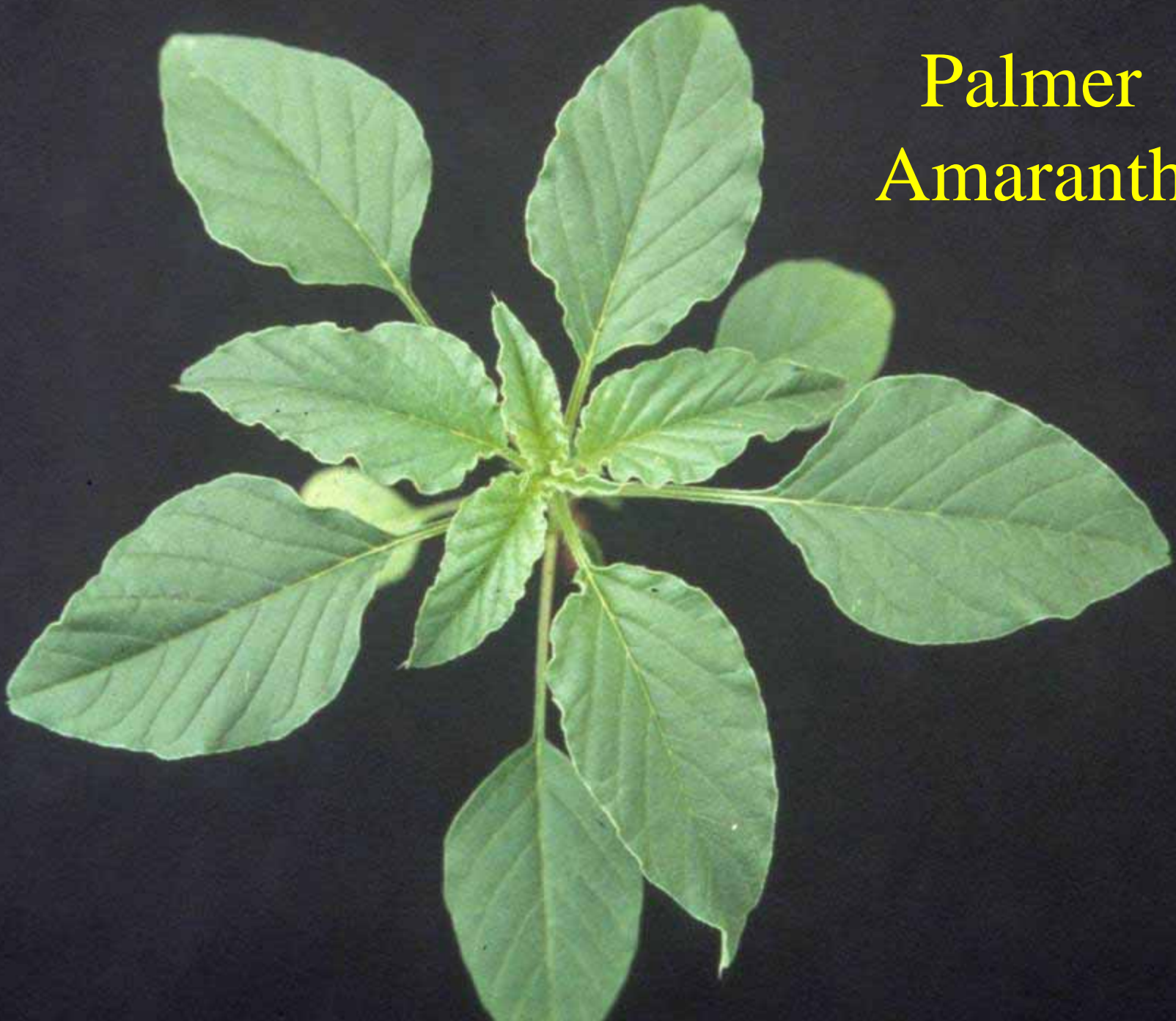
# Waterhemp



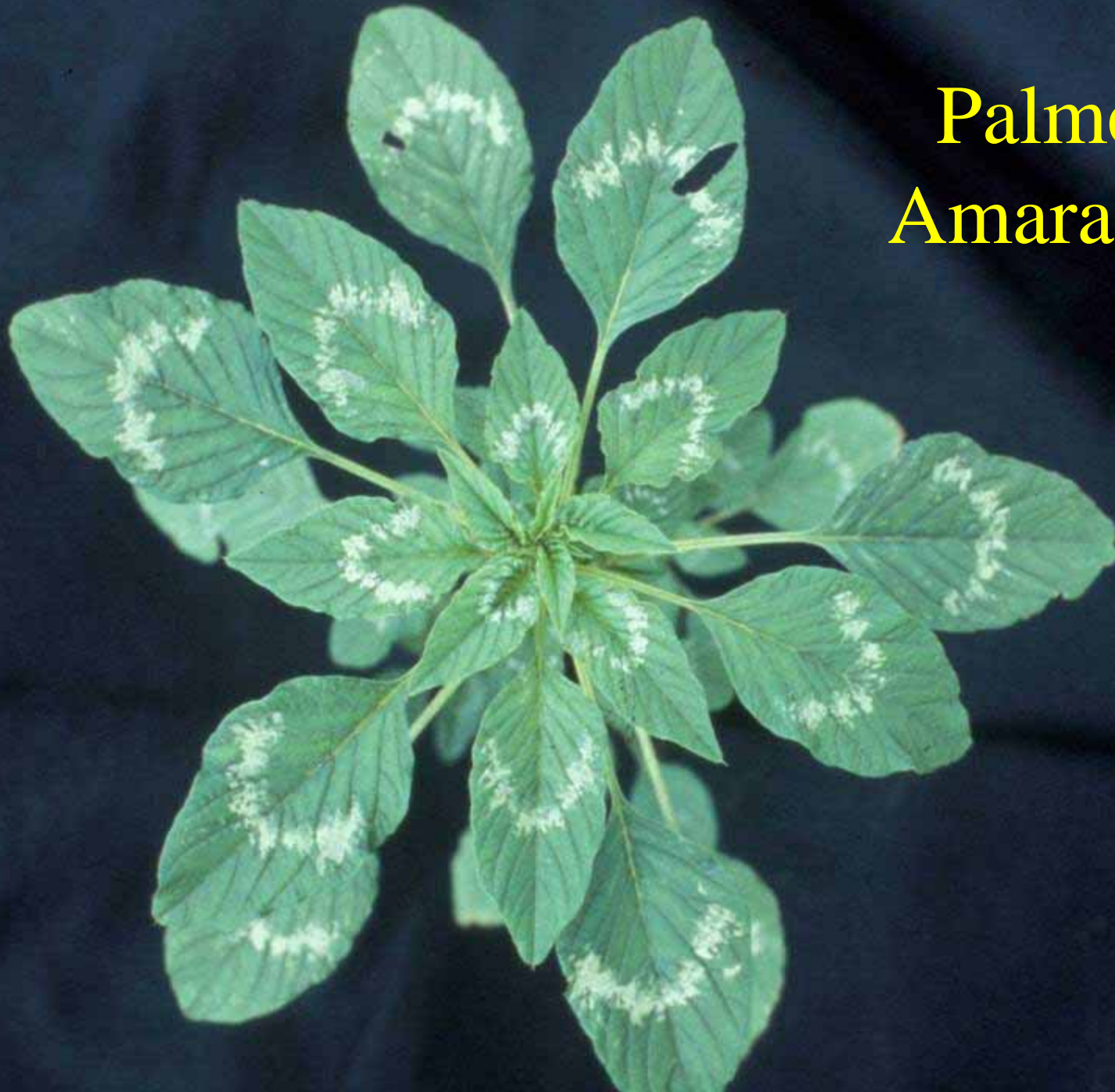
# Palmer Amaranth



# Palmer Amaranth



# Palmer Amaranth



# Palmer Amaranth Biotypes



# Palmer Amaranth



# Waterhemp / Redroot Pigweed



# Palmer/Redroot/Smooth/Waterhemp

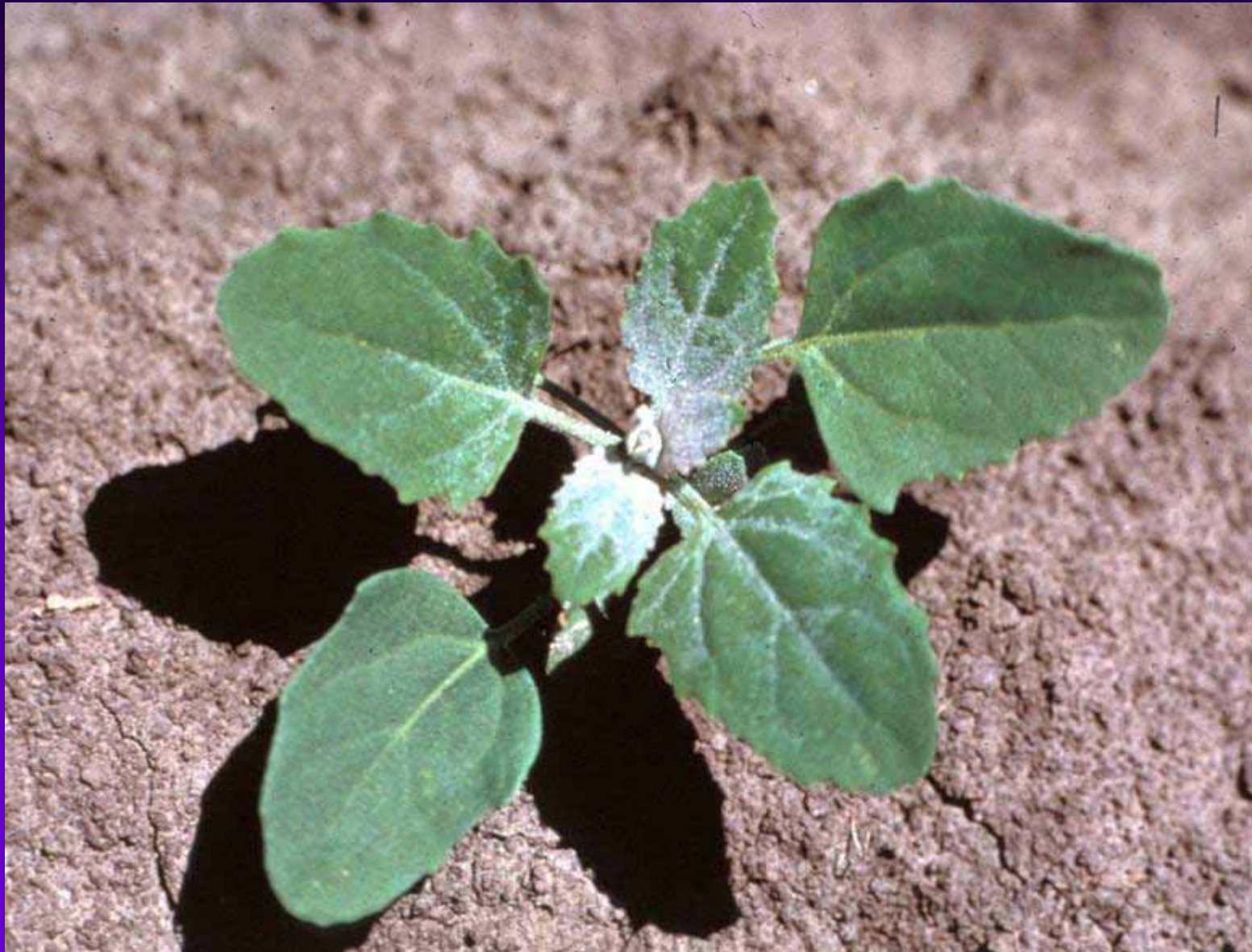




# Palmer-a/Palmer-b/Redroot/Waterhemp



# Common Lambsquarters



# Kochia



# Russian Thistle



# Buffalobur



# Ivyleaf Morningglory



# Morningglory Seedling



# Field Bindweed





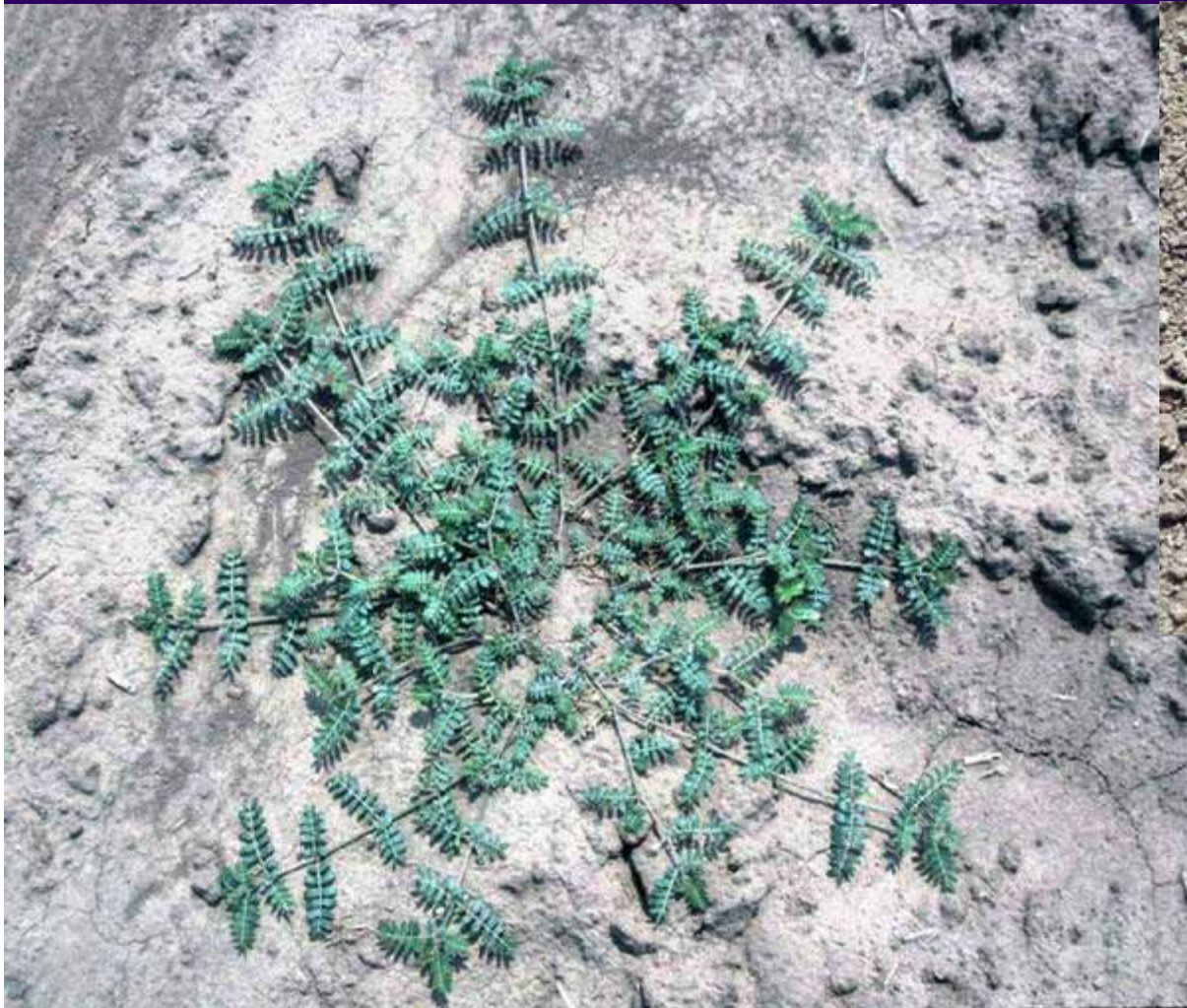
# Field Bindweed Leaf & Flower Variation



# Wild Buckwheat



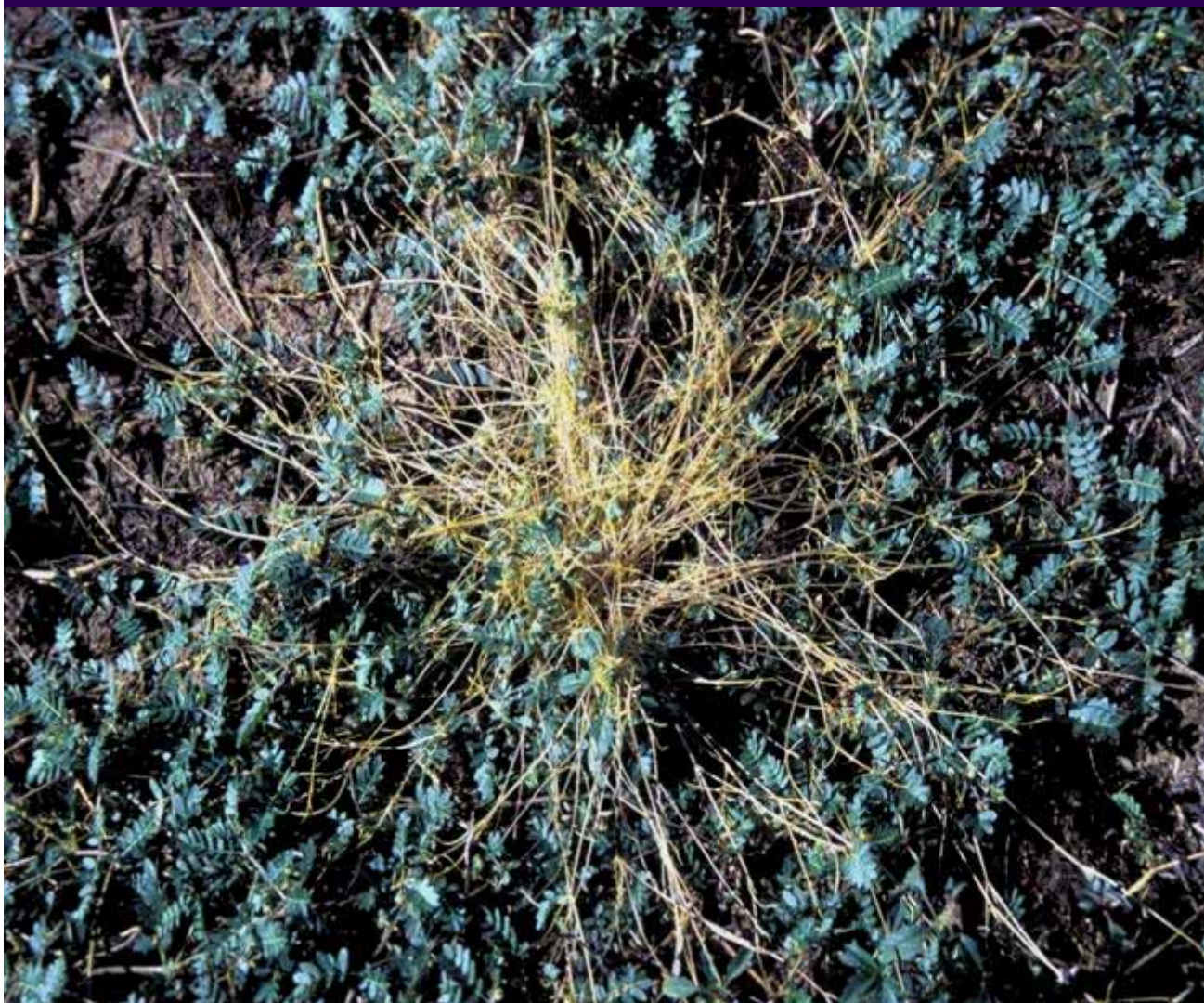
# Puncturevine



# Common Purslane



# Dodder



# Field Pennycress



# Blue Mustard



# Bushy Wallflower (Treacle Mustard)





# Flixweed & Tansy Mustard



# Horseweed (Marestail)



# Prickly Lettuce



# Chickweed



# Prostrate Spurge



# Nodding Spurge



# Toothed Spurge



# Corn Gromwell







# Field Speedwell



# Evening Primrose



# Henbit



# Field Pansy



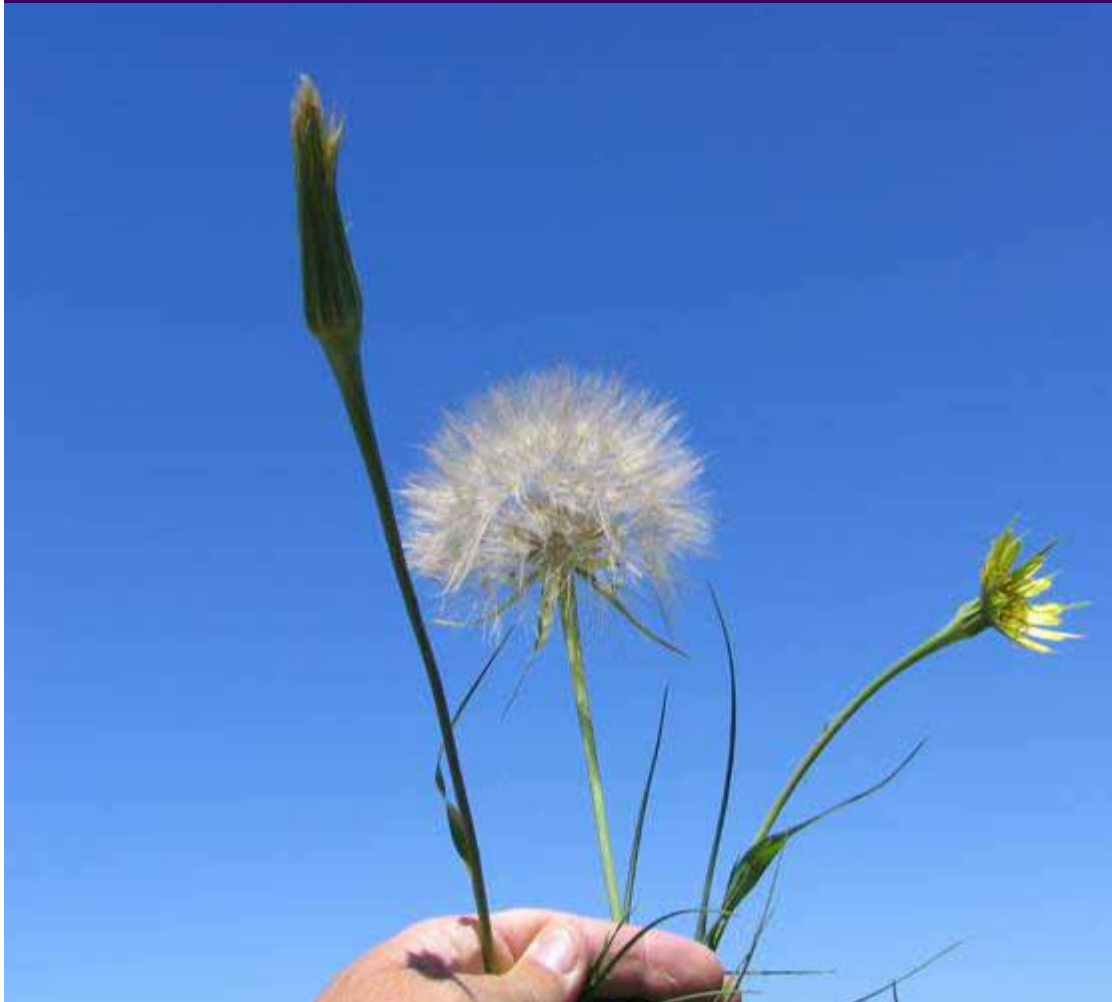
# Shepherdspurse



# Western Salsify



# Western Salsify (Yellow Goatsbeard)



# Common Dandelion





# Yellow Wood Sorrel



# Poison Ivy



# Pokeweed



# Pokeweed



# Common Mullen



# Knotweed



# Catchweed Bedstraw



# Marijuana





# Climbing Milweed (Honeyvine Milkweed)



# Kudzu



# Kudzu



# Musk Thistle





# Musk Thistle



# Bull Thistle



# Bull Thistle



# Tall Thistle





# Tall Thistle



# Canada thistle



# Canada Thistle



# Canada Thistle



# Pasture Thistles



# Woollyleaf Bursage



# Woollyleaf bursage



# Louisiana Wormwood





# Western Ragweed / Louisiana Wormwood



# Common Ragweed



# Hoary Cress



# Hoary Cress



# Hoary Cress



# Snow on the Mountain



# Common Yarrow



# Field Pennycress



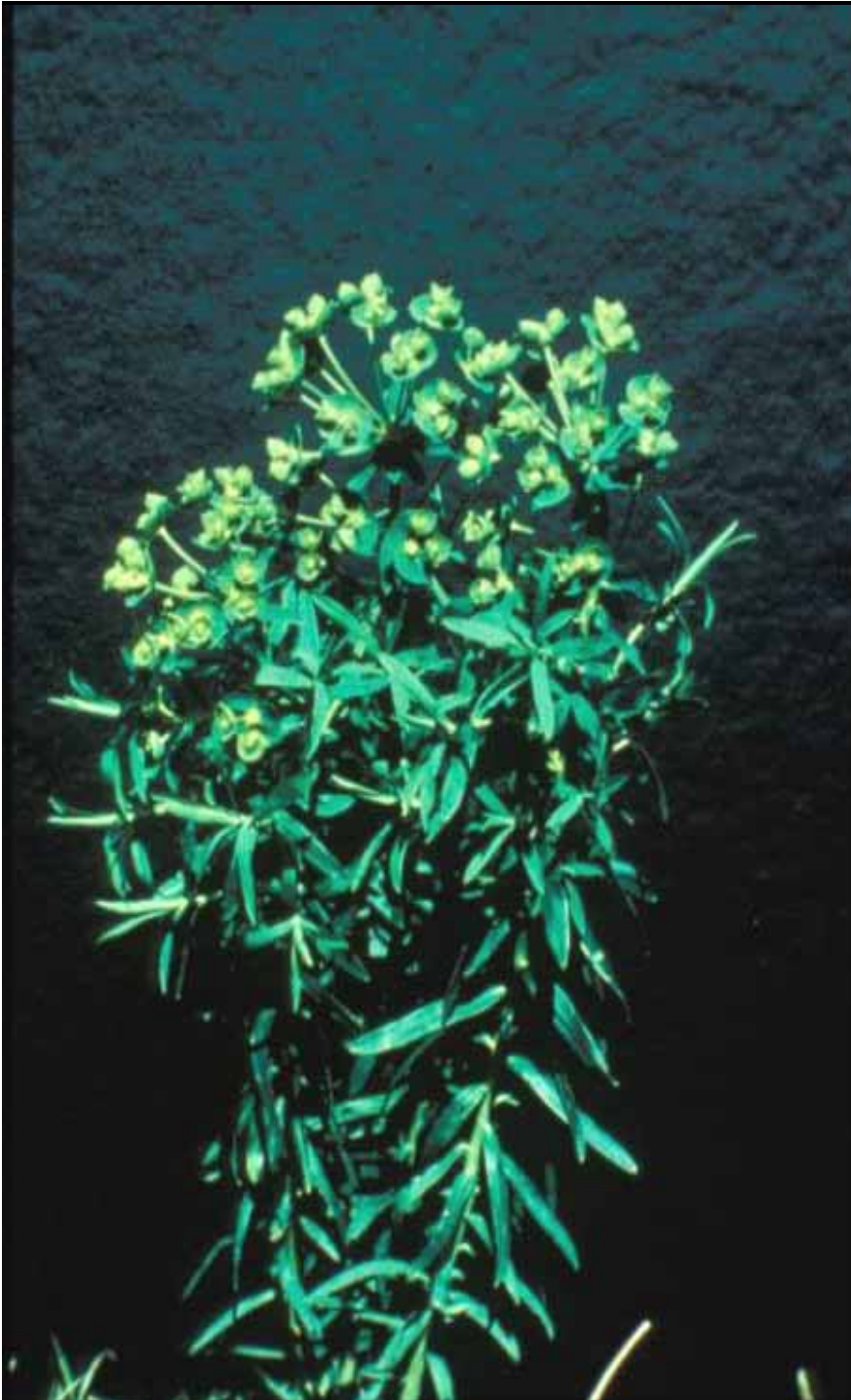




# Leafy Spurge



# Leafy Spurge



# Russian Knapweed



# Hogpotato



# Partridgepea



# Partridgepea



# Partridgepea / Hogpotato



# Sericia Lespedeza





# Sericia Lespedeza



# Sericia Lespedeza



# Sericea Lespedeza



# Buckbrush



# Venus Lookingglass



# Curly Dock



# Bur Cucumber



# Buffalogourd





# Multiflora Rose



# Multiflora Rose





Research and  
Extension

