



# MONOCOTS *Perennial*

## QUACKGRASS

An erect narrow-leaved aggressive perennial

Leaf is rough on upper surface

Collar area has claw-like fleshy appendages (auricles) that clasp stem

Plant develops multiple rhizomes from base of plant

Seedhead is a single slender spike



## JOHNSONGRASS

A very wide-bladed aggressively spreading prostrate perennial

Collar area has short hairs on upper surface near ligule

Spreads by multiple 1/4-inch-thick rhizomes



### STRUCTURAL CHARACTERISTICS:



*Leaf in bud:*  
rolled



*Collar:*  
broad  
continuous



*Ligule:*  
short

### STRUCTURAL CHARACTERISTICS:



*Leaf in bud:*  
rolled



*Collar:*  
broad  
bottom pinched



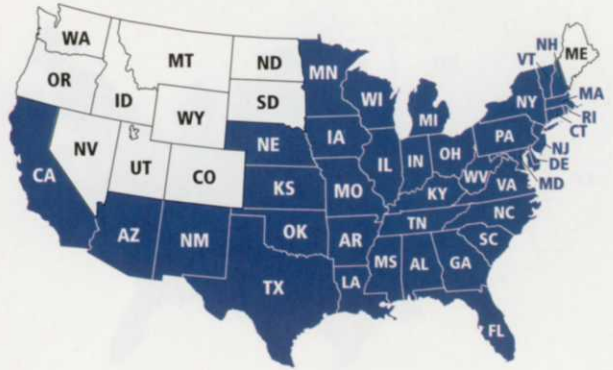
*Ligule:*  
tall  
with hairs

### DISTRIBUTION:



■ *Indigenous states*

### DISTRIBUTION:



■ *Indigenous states*



# MONOCOTS *Perennial*

## YELLOW NUTSEDGE aka *yellow nutgrass*

A very rapidly growing erect perennial herb

Spreads by rhizomes with underground tubers

Leaves are v-shaped with a prominent midrib tapering to a sharp point

Stems are triangular

Seedhead is semi-open, carrying yellow seeds



## PURPLE NUTSEDGE aka *purple nutgrass*

Rapidly growing erect perennial herb

Spreads by rhizomes with underground tubers

Stems are triangular

Leaves are v-shaped, tapering to a sharp point

Seedhead is open, carrying dark or purple seeds



### DISTRIBUTION:



Indigenous states

### DISTRIBUTION:



Indigenous states