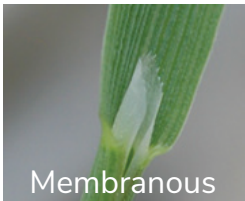

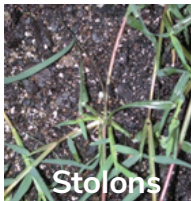
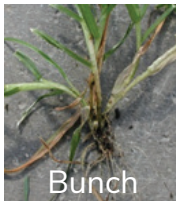

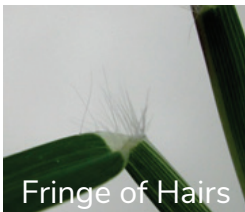
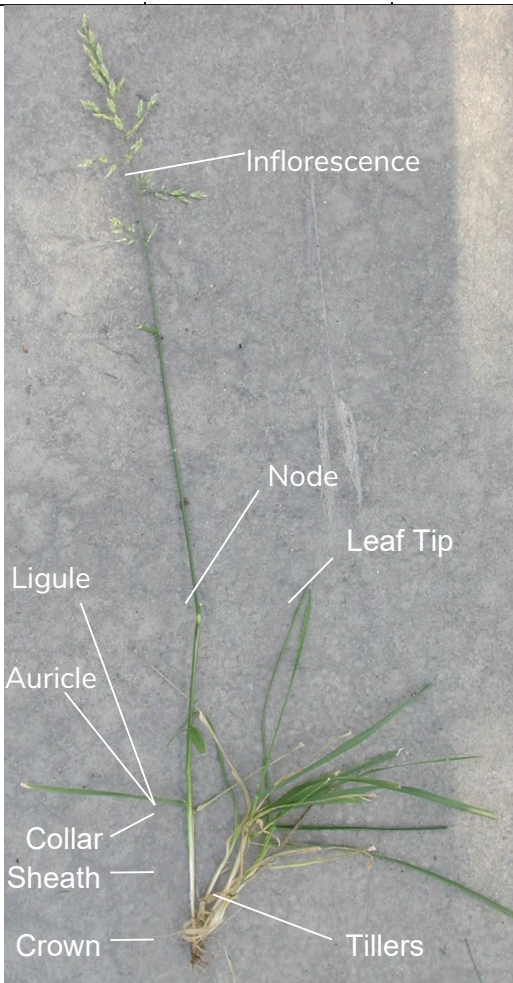
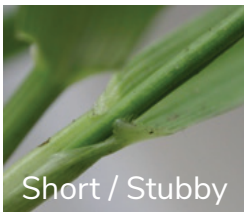
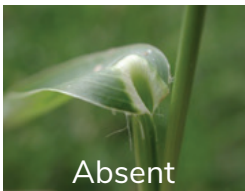

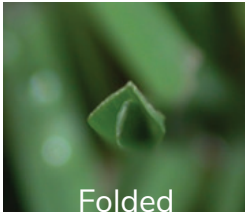
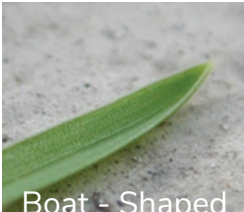
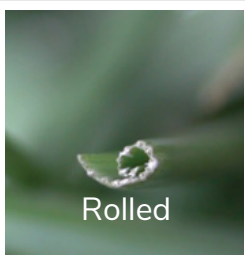
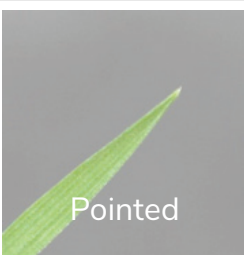
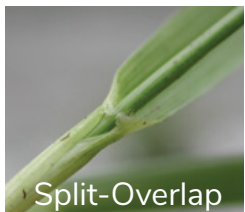
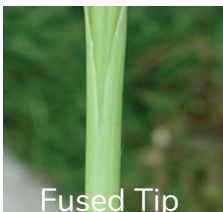

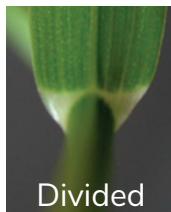



Weedy Grass Identification

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Ligule	Growth Habit				Auricle
 Membranous	 Rhizomes	 Stolons	 Bunch	 Long / Clawlike	
 Fringe of Hairs					 Short / Stubby
 Absent					 Absent
Vernation					Leaf Tip
 Folded					 Boat - Shaped
 Rolled					 Pointed
Sheath		Collar			
 Split-Overlap	 Fused Tip	 Continuous	 Divided	 Constructed with twist	



Weedy Grass Seedheads

(With major identifying vegetative characteristics)



Smooth Crabgrass (A)
Digitaria ischaemum
(Rolled; Ligule a membrane w/hairs)



Barnyard Grass (A)
Echinochloa crusgalli
(Folded; No ligule or auricle)



Goosegrass (A)
Eleusine indica
(Folded; Compressed leaf sheaths)



Annual Bluegrass
Poa annua
(Folded; Tall membranous ligule; bunch-type)



Annual Rye (A)
Lolium multiflorum
(Rolled; Clasping auricles; bunch type)



Quackgrass (P)
Elytrigia repens
(Clasping auricles; aggressive rhizomes)



Orchardgrass (P)
Dactylis glomerata
(Long membranous ligule; bunch-type)



Yellow Foxtail (A)
Setaria pumila
(Rolled; ligule a fringe of hairs)



Bermudagrass (P)
Cynodon dactylon
(Aggressive stolons, ligule a fringe of hairs)



Field Paspalum (P)
Paspalum leave
(Ligule a membrane w/hairs; rhizomes)

Identification of Perennial Grass Weeds

Species	Growth Habit	Vernation	Ligule	Auricle	Sheath	Leaf Blade	Inflorescence
Smooth Brome <i>Bromus inermis</i>	Strongly rhizomatous	Rolled	Short, membranous	Absent	Round, distinctly closed near top	Wide, blue-green color. Often with "Watermark"	Panicle
Orchard-grass <i>Dactylis glomerata</i>	Bunch Type	Folded	Distinct, long, membranous Often toothed	Absent	Compressed and closed at base	Wide, tapers to acute point. Furrowed at midrib	Panicle
Quackgrass <i>Elytrigia repens</i>	Erect stems. Strongly rhizomatous	Rolled	Short, membranous	Distinct, long, and clasping	Lower is pubescent, upper is hairy	Sharply pointed. Gray-green color, sparsely pubescent	Spike with 4-7 flattened spikelets
Timothy <i>Phleum pratense</i>	Bunch Type Lower internodes form haplocorm (enlarged bulb)	Rolled	Membranous	Absent	Round, smooth, overlapping	Long, flat, blue-green color, tapered, scabrous at margins	Dense Panicle
Rough Bluegrass <i>Poa trivialis</i>	Stoloniferous	Folded	Distinct, membranous	Absent	Senescing sheaths resemble onion skin	Boat shaped leaf tip	Panicle
Bermuda-grass <i>Cynodon dactylon</i>	Stoloniferous	Folded; some rolled bio-types	Fringe of hairs	Absent		Gray-green color, short, flat, narrow, pointed	3-10 spikes in a whorl
Nimblewill <i>Muhlenbergia schreberi</i>	Stoloniferous Roots at lower nodes	Folded	Short, membranous	Absent	Mostly glabrous, loose, open at stem	Often wavy in cross section	Slender panicle resembles a spike
Field Paspalum <i>Paspalum laeve</i>	Rhizomatous	Rolled	Tall, membranous with hairs	Absent	Can be rough, hairy at base	Rough margins, with prominent white midrib	Spike with alternating spikelets
Johnson-grass <i>Sorghum halepense</i>	Strongly rhizomatous	Rolled	Distinct, membranous, notched with hairs	Absent		Rough margins, with prominent white midrib	Large open Panicle, often purple

Sedges



Yellow Nutsedge



False Green Kyllinga

Species	Growth Habit	Vernation	Leaf blade	Inflorescence
Yellow Nutsedge <i>Cyperus esculentus</i>	Erect stems. Strongly rhizomatous. Tubers.	Leaves in 3 vertical rows. Stems are triangular in cross section	Greenish-yellow color	Spikes. Each flower in the axil of a single bract (the glume)
False Green Kyllinga <i>Kyllinga brevifolia</i>	Strongly rhizomatous. Forms dense mats in turf. No tubers.	Leaves in 3 vertical rows. Stems are triangular in cross section	Green. Narrower compared to yellow nutsedge	Globular inflorescence. Each flower in the axil of a single bract

Other Monocotyledonous Weeds



Wild Garlic – *Allium vineale*
Wild Onion – *A. canadense*
(Garlic has hollow leaves, onion has flat leaves)



Spring Beauty – *Claytonia virginica*
(White flowers with 5 petals. Leaves have a distinct, grooved midrib)