Rolled Vernation

A.	Auricles <u>usually</u> present, and may be conspicuous/prominent
	 Pointy auricles; plentiful rhizomes; leaves often have a blue-green color, with rough edges and pointy leaf tip; leaf sheaths may be fuzzy in spring; may have w-shaped "watermark" band on leaf blade
	 Blunt auricles with short hairs; surface of upright-growing leaves shows strong venation/ribbing; leaf edges rough; very short, inconspicuous membranous ligule; base of leaf sheaths may be slightly purple; often grows in clumps in bluegrass lawns
AA	 B. Ligule absent; summer annual; older plants (mid- to late summer) form radial stems growing flat on the ground when mowed; most common in new lawns
	 Vernation may appear "rolled", but is actually FOLDED; conspicuous, aggressive rhizomes AND stolons; surface of leaf blade usually not hairy, except at base. Internode spacing often irregular. Forms long stolons; soft, gray-green foliage USUALLY covered with short hairs (but some cultivars are nearly hairless); warm-season species; grows in patches; forms burr-like
	flowers/seeds close to soil surface
	 Wider leaf blades (>3/16-1/4 inch); spreads (by rhizomes) to form patches Tall, conspicuous ligule, with rounded tip; forms rhizomes; veins prominent on leaf surface; leaf blade margins/edges rough; grass creeps, forming diffuse (not dense) patches
	 Inconspicuous, short ligule; forms strong rhizomes; grass creeps, forming large diffuse patches; leaf sheath is closed at top, forming a "V"; watermark (M or W) may be present on leaf blades
	colonial bentgrass

Folded Vernation

A.	Auricles usually present Auricles short/blunt; leaf underside very shiny; leaf surface NOT shiny, with distinct
	veins/ribbing; ligule short and inconspicuous; base of leaf sheath often purple/wine-colored perennial ryegrass
	Auricles not present Ligule a fringe of hairs; vernation may appear "rolled"; conspicuous, aggressive rhizomes AND stolons; surface of leaf blade not hairy, except at basebermudagrass B. Membranous ligule VERY short, difficult to see (may appear absent) C. Leaves very narrow and bristle-like (1-2 mm wide) • Short rhizomes presentcreeping red fescue • Rhizomes absentChewings, hard, or sheep fescue CC. Leaf blades wider, not bristle-like • Smooth upper leaf surface, except for conspicuous midrib; close examination will
BI	reveal light "line" on either side of midrib; "boat-shaped" leaf tip; strong rhizome growth. • Underside of leaf very shiny; leaf surface NOT shiny, with distinct veins/ribbing; ligule short and inconspicuous; base of leaf sheath often purple/wine-colored — perennial ryegrass BB. Membranous ligule is easily visible, and may be prominent/conspicuous C. Wide leaves (3/16 to 1/4 inch wide, or more); grows as a clump or bunch/mat • Horizontal stems radiate from crown, laying flat on the ground; leaves dark green; silvery, cellophane-like leaf sheaths in center of plant; zipperlike seedheads in summer
	 Tall white ligule; leaf sheaths strongly flattened. Boat-shaped leaf tip. Stems/leaves grow vertically, grows upright, in a clump (not laying flat on the ground);
	 CCC. Leaves fine, bristle-like (1-2 mm wide) Tall, membranous, white ligule; fine, blue-green leaves; bunch-type growth habit; generally found growing on salty soils (especially wet, salty areas); prolific seed producer