Characteristics of Forage and Pasture Grasses Found in the Northeast U.S.

Species	Growth Habit	Seedhead	Leaf Characteristics	Other Characteristics
Bluegrass (Poa spp.) Kentucky – P. pratensis Canada – P. compressa Short, low growing perennial grasses; they form a dense sod spreading by short rhizomes; Ky BG is dark green and Can BG is blue-green Leaves fold in bud shoot	Many short rhizomes	Panicle with very small seed	Midrib has two grooves and is translucent in light Truncate ligules	Narrow leaves with boat shaped tip Leaves fold in bud shoot
Annual bluegrass Poa annua An annual often found near gates and laneways where soil is compacted P. annua spp. reptans is a subspecies that is stoloniferous.	An annual bunchgrass	Small, short panicles	Pointed ligule crinkled leaves	Leaves have boat shaped tip and double grooved, translucent midrib when held in light; leaves folded in the bud shoot
Roughstalk bluegrass Poa trivialis Creeping perennial Prefers shady, moist areas Leaves folded in bud shoot	Spreads by stolons; forms dense patches	Loose, green panicle	Pointed ligule; rough surface	Folded in bud shoot and leaf blades fold
Orchardgrass Dactylis glomerata Tall growing bunchgrass; Long leaves that are lighter green compared to other grasses; Leaves strongly folded in bud shoot	Prolific tillering grass	Panicle seed head with ball-like clumps	Long, pointed ligule, no auricle	Leaves strongly folded

Species	Growth Habit	Seedhead	Leaf Characteristics	Other Characteristics
Timothy Phleum pretense A tall growing bunch grass; Heads out later than most other grasses; Leaves rolled in bud shoot	Tall, Bunchgrass	"spike-like" panicle seedhead; spikelet has "horns"	Medium long ligule that is notched near front at least on one side	Unique bulb at its roots called a "corm" Leaves tend to twist.
Meadow Foxtail Alopecurus pratensis Rhizomatous sod forming dense swards; heads out early in April and May Leaves rolled in bud shoot	Spreads by rhizomes	spike-like" panicle; early heading	Ligule truncate to round, toothed	Spikelets have single awn
Reed canarygrass Phalaris arundinacea Very tall growing sod grass with extensive rhizomes; Grows best in wet soils, but tolerates well drained sites Leaves rolled in bud shoot	Open sod forming grass with thick extensive rhizomes	Panicle can be tight but also will open at an earlier maturity	long ligule with no auricle; wide leaves	Leaves are wide but leaf blades are short relative to leaf width
Smooth bromegrass Bromus inermis Tall growing, open sod forming grass; very tolerant of dry soils Leaves rolled bud shoot	Open sod extensive rhizomes	Loose panicle with long spiklets	Short truncate ligule with no auricles; split sheath	Wide leaf with distinct crimp "M" marking found on most leaves

Species	Growth Habit	Seedhead	Leaf Characteristics	Other Characteristics
Tall fescue Schedonorus arundinaceus Tall growing bunchgrass although it can produce short rhizomes; Leaves are coarse and medium-to-wide; Less palatable than other cool season grasses	Coarse textured bunchgrass	Open panicle seed head	Short auricle usually with hairs; Short, truncate ligule; rolled bud shoot	Dark green leaves with "corduroy" like deep parallel grooves
Meadow fescue Schedonorus pratensis Tall growing bunchgrass similar to tall fescue but slightly shorter; Leaves are coarse and medium-to-wide; More palatable than tall fescue	Bunchgrass	Open panicle seed head	Short auricle without hairs (smooth); Short, truncate ligule; rolled bud shoot	Medium green leaves with "corduroy" like deep parallel grooves
Perennial ryegrass Lolium perenne A low to medium growing bunchgrass; Narrow dark green leaves, Leaves somewhat folded in bud shoot (oval shaped)	Bunchgrass	Spike seed head without awns	Truncate ligules; grooved "corduroy" leaves; small claw-like auricles	Very shiny bottom side of leaf; also a very pronounced keel-like midrib
Italian (Annual) ryegrass Lolium multiflorum Similar to perennial ryegerass but larger. Leaves usually rolled in bud shoot but not always Festulolium species (a cross of ryegrass with tall or meadow fescue) will often look like Italian ryegrass	Bunchgrass	Spike seed head with awns	Truncate ligules; grooved "corduroy" leaves; claw-like auricles	Shiny bottom side of leaf with pronounced keel-like midrib

Species **Growth Habit** Seedhead **Leaf Characteristics Other Characteristics** Quackgrass Elymus repens or Elytgrigia repens A tall growing creeping grass with extensive rhizomes, open sod; Grows best in loose soils: typically considered a weed Medium long, truncated ligule; leaves Long clasping auricles; Spike seed head; spikelets oriented rolled in bud shoot sheaths can be hairy but not always Extensive rhizomes toward peduncle Fine Fescues Festuca spp. **Red fescue** *F. rubra* **Sheep fescue** *F.ovina* **Hard fescue** *F. brevipila* Low growing, narrow leaf perennial grasses that are drought and shade tolerant. Usually unpalatable for grazing livestock. Red fescue leaves tend to fold and roll Sheep and hard fescue leaves are almost and are also narrow always rolled and are quite narrow Fine, narrow leaves Narrow, contracted panicle Creeping Colonial Redtop Bentgrass Agrostis spp. **Creeping** A. stolonifera **Colonial** A. capillaris **Redtop** A. gigantea Low growing, fine, soft leaved grasses. Often found in low, wet areas of pastures and meadows Creeping growth pattern. Leaves rolled Short Medium Long Creeping bentgrass – stolons only in bud shoot Creeping BG Redtop pointed truncate rounded Colonial BG - rhizomes and stolons Forms soft, dense patches Panicle seed head to round Redtop – rhizomes only **Sweet Vernalgrass** Anthoxanthum odoratum A low yielding bunchgrass that grows in low fertile, acid soils. Produces a sweet odor due to coumarin but is Lacerate or toothed ligule; Leaves Short, pointed leaf blade Short, brownish, spike-like panicle generally unpalatable A bunchgrass rolled in bud shoot with hair at base Credits: C.E. Philips. Some grasses of the Northeast; Purdue Un. Forage ID Page (http://www.agry.purdue.edu/ext/forages/ForageID/forageid.htm); USDA Plant Data Base (http://plants.usda.gov)

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