

Plant Fact Sheet

SLENDER WHEATGRASS

Elymus trachycaulus (Link) Gould ex Shinners

Plant Symbol = ELTR7

Contributed by: USDA NRCS Plant Materials Program



USDA NRCS Upper Colorado Environmental Plant Center Meeker, Colorado

Uses

Grazing/rangeland/pasture: Slender wheatgrass is palatable and nutritious for livestock. It also makes good quality hay.

Wildlife: It is among the preferred wheatgrasses for elk and bighorn sheep at higher elevations.

Erosion control: Slender wheatgrass is recommended for inclusion in reclamation mixes because of its good seedling vigor and establishment qualities. It is also somewhat tolerant of saline soils.

Reclamation: Slender wheatgrass seedlings are vigorous and provide good initial plant cover in seed mixtures. Plants tend to be short-lived, thus giving other plants a chance to become established.

Status

Please consult the PLANTS Web site and your State Department of Natural Resources for this plant's current status (e.g. threatened or endangered species, state noxious status, and wetland indicator values).

Description

Elymus trachycaulus (Link) Gould ex Shinners, slender wheatgrass, is an erect, tufted bunchgrass ranging in height from 2 to 2-1/2 feet. It is a relatively short-lived (3 to 4 years) cool season perennial species native to the mountain and intermountain areas of the western United States and the northern Great Plains. It has very short rhizomes and the seedstalks and stems have a characteristic reddish to purplish tinge at the base.

Adaptation and Distribution

Slender wheatgrass is a widely distributed species and can be found growing at elevations from 4,500 to 12,000 feet. It prefers loams and sandy loams in areas receiving at least 14 inches of annual precipitation. Slender wheatgrass grows on moist to dry sites and has moderate to good tolerance of alkaline conditions (pH = 8.8). Salinity tolerance ranges from 1 to 16 mmhos/cm depending on environmental conditions and ecotype. It is surpassed in this trait only by tall wheatgrass.

It is less drought tolerant than either crested or western wheatgrass and may succumb to drought since it sometimes matures late in the season. It does not tolerate excessive soil moisture. It is shade tolerant.

Considerable genetic variability is present in slender wheatgrass populations and some ecotypes may be rather specific to their original sites due to selfpollination.

Slender wheatgrass is distributed throughout the northeast, north, and west portions of the United States. For a current distribution map, please consult the Plant Profile page for this species on the PLANTS Website.

Establishment

Seeding with a conventional drill is not difficult. Drilling depths should be 1/4 to 3/4 inches. Medium textured, well drained soils are preferred. The recommended drill seeding rate of 6 pounds PLS per acre will apply approximately 20 seeds per square foot. Seeding rates should be doubled for critical areas and broadcast seedings.

Seedling vigor is excellent during the first year of growth. New stands increase in size by vigorous

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tillering. This is a fast growing grass which can establish quickly on critical sites.

Management

Slender wheatgrass is best suited as a filler in seed mixtures containing slower establishing, longer-lived species for use on mountain and foothill sites. It is only moderately tolerant of grazing and requires good management to maintain stands. It performs best for hay and pasture when grown in combination with legumes.

Cultivars, Improved, and Selected Materials (and area of origin)

'Pryor' is a release from the Bridger, Montana Plant Materials Center and is useful for conservation and reclamation planting mixtures.

'Revenue' is a 1970 release from Canada.

'San Luis' slender wheatgrass has good adaptation and is long-lived at elevations of 4,500 to 12,000 feet.

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For more information about this and other plants, please contact your local NRCS field office or Conservation District, and visit the PLANTS Web sitehttp://plants.usda.gov or the Plant Materials Program Web site http://Plant-Materials.nrcs.usda.gov

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