

Plant Fact Sheet

SIBERIAN WHEATGRASS *Agropyron fragile* (Roth) P. Candargy Plant Symbol = AGFR

Contributed by: USDA NRCS Idaho State Office



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USDA, NRCS Idaho PMIC

Alternate Names

Agropyron cristatum (L.) Gaertn. ssp. *fragile* (Roth)
A. Löve

Uses

Grazing/rangeland/hayland: Crested wheatgrass is commonly recommended for forage production. It is palatable to livestock and wildlife and is a desirable feed in spring, and in the fall if it re-grows enough. It is used for cattle and horse winter forage, but protein supplements are required to ensure good animal health. It withstands heavy grazing pressure (65% use and greater) once stands are established. The best forage types in order are Siberian, desertorum, and Hycroft.

Erosion control/reclamation: Crested wheatgrasses are useful for soil stabilization. They compete well with other aggressive introduced grasses, but because of this trait, they are not compatible in mixes with native species. Their drought tolerance, fibrous root systems, and good seedling vigor make these species ideal for reclamation in areas with 8 to 20 inches annual precipitation. These grasses can be used in urban areas where irrigation water is limited to provide ground cover and to stabilize ditchbanks, dikes, pipelines, powerlines and roadsides.

Wildlife: Birds and small rodents eat crested wheatgrass seeds; deer, antelope and elk graze it, especially in spring and fall. Upland and song birds utilize stands for nesting.

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

Crested wheatgrasses *Agropyron cristatum*, *Agropyron desertorum*, and Siberian wheatgrass *Agropyron fragile* are perennial grasses commonly seeded in the western United States. They are long-lived, cool season, drought tolerant, introduced grasses with extensive root systems. Crested wheatgrass grows from 1 to 3 feet tall and seed spikes may be 1.5 to 3 inches long. Spiklets flattened, closely overlapping, located divergent (flatwise) at a slight angle on the rachis flower stem. The lemmas generally narrow to a short awn and glumes are firm, keeled, tapering into a short bristle. Culms are erect, in a dense tuft and leafy. Leaves are flat, smooth below, slightly coarse above and vary in width from 2 to 6 mm.

Adaptation and Distribution

Crested wheatgrasses are adapted for non-irrigated seedings where annual precipitation averages 8 inches or more and where the frost free period is generally less than 140 days. On droughtier sites with 8 inches or less annual precipitation, Siberian wheatgrass may be the best choice; it is known to surpass the desertorum and Hycroft types in rate of establishment, stand persistence, and total forage yield on the more arid sites. Siberian wheatgrass has been seeded in areas with as little as 5 inches of

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L Cohen



Plant Guide For Siberian Wheatgrass *Agropyron Fragile*:

Annual Technical Report Aberdeen Plant Materials Center (U.S.),2004 **Bridger Plant Materials Center Annual Technical Report** ,1996 **Manitoba Flora** Diana Bizecki Robson,2025-09-26 Whether you are a scientist student landowner or plant lover looking to identify Manitoba s native rare weedy or culturally important plants Manitoba Flora is sure to prove the ultimate guide This is the first flora of Manitoba published since the 1950s and it includes over three hundred plant species documented in the province since that time Manitoba Flora Volume 1 provides a clear easy to navigate and up to date guide to the spore producing plants conifers and monocots of Manitoba Featuring keys descriptions and illustrations for 614 species in 169 genera and 46 families this well founded guide features important updates on the province s vascular plants including an illustrated overview of plant parts species illustrations simple language and an extensive glossary aimed at benefiting professionals and amateurs alike Included in Manitoba Flora are A history of plant names Simple identification keys to Manitoba s vascular plant families genera species subspecies and varieties An illustrated guide to vascular plant terminology Detailed descriptions of the vegetative and reproductive characteristics of each species Hundreds of species illustrations Information on plants conservation status in Manitoba whether introduced or native common uncommon rare or legally protected Species ecological zones habitats and flowering periods An extensive glossary of botanical terms Additionally Manitoba Flora acknowledges Indigenous knowledge foregrounding the original people of the land and their relationship to plants and includes some traditional names Caribou-Targhee National Forest (N.F.), Curlew National Grassland ,2002 **Humboldt-Toiyabe National Forest (N.F.)**, **Jarbidge Ranger District Rangeland Management Project** ,2009 **Humboldt-Toiyabe National Forest (N.F.)**, **Martin Basin Rangeland Project** ,2005

Plants of British Columbia Hong Qian,K. Klinka,1998 This book is an up to date checklist of the current valid taxonomy for all vascular plants bryophytes and lichens in British Columbia including synonyms species codes and other information A convenient geographically restricted comprehensive checklist like this one willaid greatly in avoiding the present confusion concerning the names of many species in the ecological and systematic literature as well as in applied fields The book is organized into three sections Part 1 organizes species alphabetically according to taxonomic order by families of vascular plants bryophytes and lichens Within each family the genera are listed alphabetically along with any synonyms former names and common names In Part 2 species are organized alphabetically according to their scientific names Part 3 lists common names followed by their scientific names Excluded names names inappropriately applied to plants in B C are given in an appendix Those familiar with plant taxonomy will find Part 1 particularly helpful when checking nomenclature semi professionals familiar with scientific names will use Part 2 and then Part 1 those who know only common names will check Part 3 and then Part 2 and Part 1 to determine families There is presently considerable confusion about many species names in B C Plant names change for many reasons and new plants invade Information about plants in B C is scattered in

several checklists most of them incomplete or out of date for some species such as liverworts no provincial checklist even exists This checklist therefore will be useful to all professionals working with vegetation and for students in agriculture botany ecology forestry and other sciences Although the focus is on B C the book will also be useful outside the province particularly in the northwest American states and in Alberta and the Yukon

Improved Native Grasses and Establishment Methods for Use on Military Training Lands Antonio J. Palazzo, 2003

Bibliography of Agriculture with Subject Index, 1995

Seed Purity and Taxonomy Doris Baxter, Lawrence O. Copeland, 2008 Seed Purity and Taxonomy replaces The Handbook of Seed Testing as the most complete and up to date resource of information available on seed identification and seed taxonomy Seed Purity and Taxonomy contains a comprehensive listing of seeds along with approximately 3 000 black and white sketches photographs and computer scanned images of species most likely to be encountered in seed testing laboratories in North America Internal morphological features of different family groups are also included These images are complemented with detailed descriptions and numerous dichotomous keys that will help in making definitive identifications

Bibliography of Agriculture, 1995

Complete Guide to Growing and Using Wheatgrass Loraine Degraff, 2014 More and more people are taking advantage of wheatgrass this highly useful plant and growing it themselves but for many the lack of instruction and direction can lead to frustration and confusion over how the plant is supposed to be grown

Environmental Impact Research Program: Tall Wheatgrass (Agropyron Elongatum). Section 7.1.3. US Army Corps of Engineers Wildlife Resources Management Manual Clinton H. Wasser, Phillip L. Dittberner, Donald R. Dietz, ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS ENVIRONMENTAL LAB., 1986 A plant materials report on tall wheatgrass Agropyron elongatum is provided as Section 7 1 3 of the US Army Corps of Engineers Wildlife Resources Management Manual The report was prepared as a guide to assist the Corps District or project biologist with the selection cultivation and management of suitable plant materials for wildlife and habitat management programs Topics covered include description distribution habitat requirements establishment maintenance and cautions and limitations Tall wheatgrass is an introduced perennial cool season bunchgrass that grows well in saline sodic soils and subirrigated sites especially in the West The species is planted for pasture hay wildlife cover soil protection and site reclamation Diagnostic features of tall wheatgrass are described and the species distribution and region of greatest management use are given Habitat requirements are discussed and soil and moisture tolerance are specified Information on food and cover value for wildlife is presented Guideline are provided for establishing tall wheatgrass stands on range sites along rights of way and on erosive and disturbed sites topics include site selection site preparation propagule selection and planting mixtures Seed mixtures for restoring big game range are given Maintenance requirements and appropriate cautions and limitations are noted

Western Wheatgrass Kendall L. Johnson, 1977

Desert Wheatgrass (Agropyron Desertorum). Oregon State College. Federal Cooperative Extension Service, 1957

Slender Wheatgrass (Agropyron Pauciflorum)., 1960

Intermediate Wheatgrass (Agropyron Intermedium). ,1968
State University. Cooperative Extension Service,1961

Tall Wheatgrass (Agropyron Elongatum). Oregon

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let s look at each part of the member row expand collapse on the left hand side of the member row is a control used to expand and collapse each member row to show hide member details member name the name of the class member lookupcomponent in this example method param any required or optional params used by a method or passed to an event handler

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