SPIKE BENTGRASS
*Agrostis exarata* Trin.

Plant Symbol = AGEX

Contributed by: USDA NRCS Plant Materials Center, Corvallis, Oregon

---

### Alternative Names

*Alternate Common Names:* spike redtop, western bentgrass  
Spike bentgrass apparently hybridizes with *A. scabra* and *A. stolonifera*.

### Uses

As a pioneer species, spike bentgrass has good potential for restoration of prairie wetlands, riparian areas, and other seasonally wet or intermittently flooded habitats. It is also useful for revegetation of ditches, logged or burned over timberland, and other disturbances within brush and open woodland communities.

Where locally abundant, this species is an important source of forage for livestock. Foliage remains green and palatable throughout the summer. Its palatability is rated good for cattle, horses, and elk, and fair to good for sheep and deer. Spike bentgrass is also planted as a soil stabilizer in degraded areas and has been suggested for use in excluding reed canarygrass (*Phalaris arundinacea*). Value for wildlife habitat is ranked high for numerous birds and mammals. Compared to many bentgrasses, spike bentgrass is considered by some as more compatible with other native grasses, forbs, and trees.

### Description

Spike bentgrass is a medium textured, cool season, perennial bunchgrass with a dense, spike-like flower head (panicle). The stems (culms) are slender and erect, usually 50 to 100 (150) cm tall. The leaf blades are 2 to 20 mm wide, 5 to 20 cm long, and harsh to the touch. This species contains considerable variability, from dwarf alpine forms to taller, more robust specimens along the seacoast. Some texts indicate the occasional presence of short rhizomes and root development or growing points at lower nodes, but rhizomes appear to be lacking on plants in our area. This species is found mostly in the western United States and Canada.

#### Key to identification:

Compared to most other bentgrasses, the panicle is particularly narrow and more spike-like. It is 10 to 25 cm long. The individual flower groups (spikelets) are very tiny and 1-flowered. A botanical grass key may be required to accurately distinguish it from other bentgrasses.

### Relative abundance in the wild

Spike bentgrass is relatively common in western Oregon, western Washington, and California. It can be locally abundant on moist sites throughout the western states. The species produces large quantities of tiny seeds with good retention that are easy to harvest or collect. It is usually not found in large pure stands, but occurs as scattered individuals or small colonies across a landscape.

### Adaptation

Spike bentgrass has broad adaptation to a wide variety of habitats. Despite the tiny seed size, it is easy to establish and a high seed producer with good commercial potential. Spike bentgrass occurs in a wide variety of habitats including forest openings, grasslands, shrub lands, wet meadows, freshwater and high tidal marshes, as well as along streams, rocky beaches, and lake margins. It is most commonly found in moist open places, but occasionally grows in dry habitats such as semi-arid grasslands. Relatively shade intolerant, this species performs well on moderately acidic, mineral soils.
While most prevalent on disturbed sites such as ditches, harvested forestland, and roadsides, it may also be found in established meadow and riparian plant communities. Habitats range from sea level to alpine zones. This species occurs mostly in the western United States and Canada.

The ability of spike bentgrass to easily volunteer on moist, disturbed ground and readily produce seed makes it a candidate for moist soil management of wetland habitat for waterfowl, shorebirds, and other wildlife.

**Limitations or environmental concerns:**
Due to its abundant seed production and broad adaptability, it may be considered weedy in certain environments. Please consult with your local NRCS Field Office, Cooperative Extension Service office, or state natural resource or agriculture department regarding its status and use.

**Commercial availability of seed:** Several seed sources are available for California and at least one for the Willamette Valley of Oregon. Ecotypes may be harder to locate for other western states.

**Prepared By:**
*Dale Darris and Amy Bartow*, USDA NRCS Plant Materials Center, Corvallis, Oregon.

**Species Coordinator:**
*Dale Darris*, USDA NRCS Plant Materials Center, Corvallis, Oregon.

**Citation:**
Darris, D., and A. Bartow. 2006. Plant fact sheet for spike bentgrass (*Agrostis exarata*). USDA-Natural Resources Conservation Service, Plant Materials Center, Corvallis, OR.

Published 2006

Edited: 16Mar2006 jsp, 16Sep2008 dcd; 17Sep2008 jsp; 17Feb2012 aym

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