

'Benson' Beach Wildrye *Leymus mollis (Elymus mollis)*

Uses: Revegetation by Sprigs in Coastal Alaska

Background Information

Beach Wildrye grows wild in Alaska mainly on sandy beaches on the coast.

Beach Wildrye has many different common names. It is also known by several different scientific names. Current synonyms are *Elymus mollis* or *Elymus arenarius*. In describing this specific cultivar, *Leymus mollis* is the most up to date name. Beach Wildrye also has several subspecies and varieties.



Map from Hultén, 1968. Used with the permission of Stanford University Press.

Distribution

Find Beach Wildrye on sandy beaches, spits, sea beaches, tidal flats, sea cliffs, and lakeshores from Alaska to Greenland and south to New York and central California (Welsh, 1974).

'Benson' Beach Wildrye is recognized in breeder, foundation, registered, and certified seed classes.

Growth

spreads.

Beach Wildrye is easy to

Its spike of seed/flowers

recognize in the wild.

is large, compact, and

slightly greenish. The

vigorous rhizomes are

the main way this grass

It is perennial, with stout

stems that are slightly

It is sod-forming,

color is green.

growing nearly 4 ft. high, with many leaves overlapping at the base (Wright, 1991b). Leaf

hairy beneath the spike.

Breeder and foundation seed is maintained by the Alaska Plant Materials Center.

Registered and certified seed is available through the Alaska Seed Growers, Inc.

Alaska Plant Materials Center Serving Alaska's needs in production of Alaska native plants

Cultivar: 'Benson' Plant introduction number: 567896

'Benson' was released by the Alaska Plant Materials Center in 1991 (Wright, 1991b).

The parental seed for 'Benson' was collected in 1980 from Kodiak Island, Alaska.

This cultivar provides rapid recolonization of critical coastal areas where natural erosion would prevent traditional seeding methods.

Plant 'Benson' for commercial production of sprigs—i.e. only for vegetative reproduction (Wright, 1993).



Historical Uses

Klebesadel (1985) stated that Beach Wildrye was used for forage in Alaska. Native Peoples used it for thatching for shelters, basketry, food, and cordage.

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'Benson' Beach Wildrye

'Benson' Beach Wildrye for Alaska Revegetation Purposes

Throughout the coasts of Alaska, beach wildrye can be found. Thus, for revegetation in sandy or gravelly places, it makes sense to use a species that might naturally occur. 'Benson' sprigs effectively and quickly recolonizes extreme but important coastal areas especially where there are dunes and blowing sand conditions.

'Benson' provides good erosion control because of its aggressive vegetative growth. It can successfully revegetate areas unsuitable for other species. Prior planning is essential.



'Benson' Peculiarities

Beach wildrye works best in sandy or gravelly soils—but does poorly in organic, silt, or clay soils. It does not tolerate excessive foot traffic. It also does not compete well with other grasses (Wright, 1994).

'Benson' beach wildrye does not produce well by seed. It does produce seed, but most of the head is empty.



'Benson' Beach Wildrye production at the Plant Materials Center in Palmer, Alaska.

'Benson' seed

'Benson' Beach Wildrye is a sand-binder. Transplanting has been both practical and successful.

To Produce 'Benson' Beach Wildrye

- Typical transplanting equipment and potato harvester (or hand tools) are needed.
- 'Benson' does not decline in production over time.
- Poor seedling vigor occurs if there is not enough sand in the soil.
- Beach wildrye responds well to high nitrogen fertilizers (Wright, 1994).



Peggy Hunt & Stoney Wright State of Alaska Department of Natural Resources Division of Agriculture Plant Materials Center 5310 S. Bodenburg Spur Rd. Palmer, AK 99645-9706 Plant as sprigs, not seed!

References

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