REGISTRATION OF CROP CULTIVARS

birdsfoot trefoil cultivar with a diverse genetic background that should provide the resiliency to adapt to different environments within the North Central region. Norcen yielded about 6.0% more dry matter than the check cultivar 'Leo' when evaluated over 35 test years in 11 states. In Minnesota, Norcen was the highest in seed yield, but was somewhat less winter-hardy than Leo and 'Carroll'. It flowers somewhat earlier than Carroll, but later than 'Viking'. Preliminary data indicate that Norcen is adapted also to the northeastern region of the USA.

Prebreeder (Syn 1) seed of Norcen was synthesized by mixing equal (1.5 g) quantities of polycross seed from each of the nine parental clones. Syn 2 seed was produced in 1975 at Rosemount from bulked seed produced on several hundred plants grown in isolation. Breeder seed (Syn 3) was produced under isolation near Roseau, Minn. in 1977 and 1978. Three generations of seed increase will be allowed beyond breeder seed: foundation, registered, and certified. Allowable number of harvest years shall be: a) breeder seed—2 years, b) foundation seed—3 years, c) registered seed—4 years, and d) certified seed—5 years. No field can produce more than five seed crops regardless of class of seed planted.

Prebreeder and breeder seed will be maintained by the Dep. of Agronomy and Plant Genetics, Minnesota Agric. Exp. Stn. The Minnesota Crop Improvement Assoc., St. Paul, MN 55108, will produce and distribute foundation seed of Norcen. Orders for foundation seed will be accepted through 15 December of each year. Foundation seed orders shall be placed with the Foundation Seed organization of the state in which the purchaser lives. (i.e., Iowa growers should place orders with Iowa CAD who will order from Minnesota Crop Improvement Assoc.) When orders exceed available foundation seed, amounts provided will be prorated.

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References and Notes


RELIENT HARD FESCUE

‘RELIENT’ hard fescue (Festuca longifolia Thuill.) (Reg. No. 25) is a 43-clone synthetic cultivar developed in 1981 by Lofts Seed, Inc., using germplasm obtained from the New Jersey Agriculture Experiment Station. It was the experimental designation of Reliant before the certified seed was produced in western Oregon.

The parental germplasm of Reliant hard fescue was developed by screening over 30 000 seedlings, followed by the powdery mildew disease incited by 

D. C. Cultivars of European origin and germplasm collected from old turfs were used. Cultivars were selected based on powdery-mildew-resistant seedlings were selected in a spaced-plant field nursery. Immediately before anthesis, 138 plants were selected for greenhouse screening for powdery mildew. Nearly 2000 attractive powdery-mildew-resistant plants were selected during greenhouse evaluation and transferred to a spaced-plant field nursery. Prior to greenhouse screening, 2000 attractive powdery-mildew-resistant plants were selected during greenhouse evaluation and transferred to a spaced-plant field nursery. Prior to greenhouse screening, 2000 attractive powdery-mildew-resistant plants were selected during greenhouse evaluation and transferred to a spaced-plant field nursery. Prior to greenhouse screening, 2000 attractive powdery-mildew-resistant plants were selected during greenhouse evaluation and transferred to a spaced-plant field nursery.

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