5432 is an 11-clone synthetic with parental clones selected for rapid postharvest regrowth, forage yield based on progeny testing, seed yield, and resistance to: bacterial wilt [caused by Corynebacterium insidiosum (McCull.) H.L. Jens.], Phythophthora root rot (caused by Phytophthora megasperma Drechs.), Verticillium wilt (caused by Verticillium albo-atrum Reinke and Berth.), and biotypes of the spotted alfalfa aphid [Therioaphis maculata (Buckton)] found in Fresno County, California. Germplasm sources (1) of 5432 include approximately 4% M. falcata, 9% ‘Ladak’, 26% M. varia, 7% Turkistan, 45% Flemish, and 9% Chilean tracing back more currently through ‘555’, ‘Saranac’, ‘Culver’, ‘Vernal’, ‘ATRA55’, Flemish, Flemish × ATRA55, MSA-C4, and MSB-C4.

Fall dormancy of 5432 is similar to that of Saranac. 5432 has high resistance to bacterial wilt, Fusarium wilt [caused by Fusarium oxysporum Schlecht. f. sp. medicaginis (Weimer) Snyd. and Hans.], and spotted alfalfa aphid; resistance to Verticillium wilt and pea aphid [Acrithosiphon pisum (Harris)] biotypes occurring in California; and moderate resistance to Phytophthora root rot. 5432 has been tested for forage yield throughout the northern, central and southeastern regions of the USA, and is intended to be used for hay, haylage, dehydration, and greenchop production in these general areas. Flower color is approximately 97% purple, 3% blue, and a trace of cream and white.

One generation each of breeder, foundation, and certified seed classes is recognized. A maximum of 3 and 5 harvest yr is permitted on stands producing foundation and certified seed, respectively. Seed produced from certified is not recognized as 5432. Foundation seed production is limited to the northern region of adaptation. 5432 was favorably reviewed in 1985 by the National Alfalfa Variety Review Board. A plant variety protection certificate (no. 8700055) was issued in April 1987.

References and Notes


2. Director, Dep. of Alfalfa Breeding; former director, Dep. of Alfalfa Breeding (now retired); and research staff, respectively, Pioneer Hi-Bred Int., Inc., P.O. Box 287, Johnston, IA 50131. Registration by the Crop Sci. Soc. of Am. Accepted 30 June 1987.


REGISTRATION OF ‘WYSOR’ BARLEY

‘WYSOR’ barley (Hordeum vulgare L. (Reg. no. 501526) was developed by the Virginia Agricultural Experiment Station and released in 1985. In 1978, the plant breeding program at the Station was established to develop new lines of barley with cultivar potential for use in the humid eastern United States. In selecting the parentage CI9623, CI9658, CI9708, or barley yellow dwarf virus resistant ‘Atlas’/‘Hanover’ were crossed with one or more of seven lines having the parentage ‘Harrison’/3/‘Cebada Capa’/‘Wong’/M. varia, approximately 8% M. falcata, 7% Turkistan, 45% Flemish, Flemish X ATRA55, MSA-C4, and MSB-C4.

Fall dormancy of 5444 is similar to that of Saranac. 5444 has high resistance to bacterial wilt, Fusarium wilt [caused by Fusarium oxysporum Schlecht. f. sp. medicaginis (Weimer) Snyd. and Hans.], and spotted alfalfa aphid; resistance to Verticillium wilt and yellowing caused by the potato leafhopper [Empoasca fabae (Harris)] and biotypes of Verticillium albo-atrum Drechs.). 5444 has been tested for forage production throughout the northern and central regions of the USA, and is intended to be used for hay, haylage, dehydration, and greenchop production in these general areas. Flower color is approximately 86% purple, 9% blue, 3% than blue, 1% cream, and 1% yellow.

One generation each of breeder, foundation, and certified seed classes is recognized. A maximum of 3 and 5 harvest yr is permitted on stands producing foundation and certified seed, respectively. Seed produced from certified is not recognized as 5444. Foundation seed production is limited to the northern region of adaptation. 5444 was favorably reviewed in 1984 by the National Alfalfa Variety Review Board. A plant variety protection certificate (no. 8700055) was issued in August 1986.