REGISTRATION OF ‘5364’ ALFALFA

‘5364’ ALFALFA (Medicago saliva L.) (Reg. no. 162) (PI 533625) was developed by Pioneer Hi-Bred International, Inc. and tested experimentally as XAR64, YAR64, JHR873, and 83CR252. The cultivar was released 24 Feb. 1989.

5364 is a fifteen-clone synthetic with parental clones selected for forage yield based on progeny testing and for one or more of the following: seed yield, bacterial wilt [caused by the bacterium Clavibacter michiganense subsp. insidiosum (McCulloch) Davis et al., 1984], Verticillium wilt (caused by Verticillium albo-atrum Reinke and Berth.), Phytophthora root rot (caused by Phytophthora megasperma Drechs. f. sp. Medicaginis Kuan and Erwin), anthracnose (caused by Colletotrichum trifolii Bain), and biotypes of the spotted alfalfa aphid [Theroaphis maculata (Buckton)] found in Fresno County, CA. Germplasm sources (1) of 5364 include approximately 3% M. 6% ‘Ladak’, 19% M. varia, 6% Turkistan, 53% Flemish, 12% Chilean, and 1% Peruvian tracing back through ‘Vernal’, ‘Saranac’, ‘Saranac AR’, ‘Dawson’, ‘Culver’, ‘Iroquois’, Flemish, and Flemish × Vernal.

Fall dormancy of 5364 is similar to that of Saranac. 5364 has high resistance to spotted alfalfa aphid and pea aphid [Acrithosiphon pisum (Harris)] biotypes occurring in California and Iowa, respectively; resistance to bacterial wilt, Fusarium wilt [caused by Fusarium oxysporum Schlecht. f. sp. medicaginis (Weimer) Snyder and Hans.,] and stem nematode [Ditylenchus dipsaci (Kuhn) Filipjev]; moderate resistance to anthracnose, Verticillium wilt, and Phytophthora root rot. 5364 has been tested for forage yield throughout the northern regions of the USA. Flower color is approximately 98% purple, 2% variegated, and a trace of yellow, cream, and white.

Seed increase is limited to one, two, and one generation of breeder, foundation, and certified seed classes, respectively. Limitation of age of stand is 3 and 5 yr, respectively, for foundation and certified seed. Seed produced from the certified class is not recognized as 5364. 5364 was favorably reviewed in 1988 by the National Alfalfa Variety Review Board. Application has been made for plant variety protection.

W.T.W. Woodward,* G.E. Hoard, D.L. Jessen, D.J. Miller, L.D. Satterlee, and M.A. Smith (2)

References and Notes

2. Pioneer Hi-Bred International, Inc., P.O. Box 287, Johnston, IA 50131. Registration by CSSA. Accepted 30 June 1989. *Corresponding author.

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REGISTRATION OF ‘LLOYD’ SOYBEAN

‘LLOYD’ soybean [Glycine max (L.) Merr. (PI 533602)] was developed by the Arkansas Agricultural Experiment Station. It is a determinate cultivar in Group VI that is adapted for planting in the United States. The USDA has no seed for distribution. The cultivar has resistance to Races 3 and 4 of SCN. The D68-18 is a sister line of the D68-1182 selection from the cross ‘Centennial’ X R75-12L. The R75-12L is a selection from the cross ‘Cen- Lloyd originated from an F

References and Notes


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