REGISTRATION OF ‘5262’ ALFALFA

‘5262 alfalfa (Medicago sativa L.) (Reg. no. 161) (PI 533624) was developed by Pioneer Hi-Bred International Inc. and tested experimentally as XAF62, YAF62, JHF871, and 83SR241. The cultivar was released 24 Feb. 1989.

5262 is comprised from 155 plants originated from experimental lines selected through recurrent phenotypic selection for one or more of the following: bacterial wilt [caused by the bacterium Clavibacter michiganense subsp. insidiosum (McCulloch) Davis et al., 1984] anthracnose (caused by Colletotrichum trifolii Bain), Phytophthora root rot (caused by Phytophthora megasperma Drechs. f. sp. medicaginis Kuan and Erwin), winter survival and plant vigor. Germplasm sources (1) of 5262 include approximately 7% M. falcata, 8% ‘Ladak’, 25% M. varia, 3% Turkistan, 49% Flemish, and 8% Chilean, tracing back through ‘Saranac’, ‘Vernal’, ‘DuPuits’, ‘530’, ‘Alfa’, ‘Flemish’, ‘Titan’, ‘Valor’, MnP-B1, and ‘Weevich’. Fall dormancy of 5262 is similar to that of Vernal. 5262 has high resistance to bacterial wilt; resistance to Phytophthora root rot, pea aphid [Acyrthosiphon pisum (Harris)] biotypes occurring in Iowa, and biotypes of the spotted alfalfa aphid [Therioaphis maculata (Buckton)] found in Fresno County, CA; moderate resistance to Fusarium wilt [caused by Fusarium oxysporum Schlecht. f. sp. medicaginis (Weimer) Snyd. and Hans.], and stem nematode [Ditylenchus dipsaci (Kuhn Filipjev)]; low resistance to Verticillium wilt (caused by Verticillium albo-atrum Reinking) 5262 has been tested for forage yield through regions of the USA. Flower color is approximately 67% purple, 31% variegated, 2% yellow, and a trace of white and cream.

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 5262. 5262 was favorably reviewed in 1987 by the National Alfalfa Variety Review Board. Application has been made for protection.

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References and Notes


2. Pioneer Hi-Bred International Inc., P.O. Box 287, Storm Lake, IA. Application has been made for protection. Accepted 30 June 1989. *Correspondence

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