Registration of ‘5715’ Alfalfa

‘5715’ ALFALFA (Medicago sativa L.) (Reg. no. CV-181, PI549107) was developed by Pioneer Hi-Bred International, Inc. and tested experimentally as XAI81 and YAI81. The cultivar was released 12 Feb. 1991.

5715 is a 102 plant synthetic cultivar with parents selected through phenotypic recurrent selection originating from several experimental lines tracing to BAA17, BAA20, ‘CUF 101’, ‘Moapa 69’, ‘Lahontan’, ‘N71 Brand’ ‘UC Cargo’, UCPX, ‘UC Salton’ and others with minor contributions. Parent plants were selected for resistance to one or more of the following: anthracnose [caused by Colletotrichum trifolii Bain & Essary (Race 1)], blue alfalfa aphid (Acrithosiphon kondoi Shinji) and phytophthora root rot [caused by Phytophthora medicaginis E. M. Hans. & Maxwell]. (1) Germplasm sources of 5715 include: 1% M. varia, 10% Turkistan, 2% Flemish, 9% Chilean, 9% Indian, 33% African, and 36% unknown.

5715 is a nondormant variety with fall dormancy similar to that of Moapa 69. The cultivar has high resistance to anthracnose (Race 1), fusarium wilt [caused by Fusarium oxysporum Schlechtend.:Fr. f.sp. medicaginis (J. L. Weimer) W. E. Snyder & H. N. Hans.], blue alfalfa aphid, spotted alfalfa aphid [Theroaphis maculata (Buckton)]; resistance to phytophthora root rot and pea aphid [Acrithosiphon pisum (Harris)]; low resistance to bacterial wilt [caused by Clavibacter michiganense subsp. insidiosum (McCull.) Davis et al.], and verticillium wilt [caused by Verticillium albostratum Reinke & Berthier] 5715 has been tested for forage yield in the warmer climates of Argentina, Chile, Spain, Australia and the Southwestern parts of the USA. Flower color is approximately 93% purple and 7% variegated.

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 5715. 5715 was favorably reviewed in 1990 by the National Alfalfa Variety Review Board. An application for US Plant Variety Protection was submitted on 19 Mar. 1991 for 5715.


References and Notes


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