Registration of ‘5311’ Alfalfa

‘5311’ ALFALFA (Medicago sativa L.) (Reg. no. CV-179, PI 549105) was developed by Pioneer Hi-Bred International, Inc. and tested experimentally as XAF31 and YAF31. The cultivar was released 12 Feb. 1991.

5311 is a 24 clone synthetic cultivar with breeder seed produced on replicated clones in “cage isolation.” Parental clones were selected for seed yield or resistance to one or more of the following: bacterial wilt [caused by Clavibacter michiganensis subsp. insidiosum (McCull.) Davis et al.], spotted alfalfa aphid [Therioaphis maculata (Buckton)], and phytophthora root rot [caused by Phytophthora medicaginis E. M. Hans. & Maxwell].


Germplasm sources of 5311 include approximately 7% M. falcata, 20% Ladak, 47% M. varia, 7% Turkistan, 1% Flemish, 8% Chilean, 1% Peruvian, and 9% unknown.

5311 has a fall dormancy and winterhardiness similar to ‘Ranger’. The cultivar has high resistance to bacterial wilt, fusarium wilt [caused by Fusarium oxysporum Schlechtend.: Fr. f.sp. medicaginis (J. L. Weimer) W. E. Snyder and H. N. Hans.], and pea aphid [Acrithosiphon pisum (Harris)]; moderate resistance to stem nematode [Ditylenchus dipsaci (Kühn) Filipjev], and verticillium wilt (caused by Verticillium albo-atrum Reinke & Berthier). 5311 has been tested for forage yield throughout the northern regions of the United States.

Seed increase is limited by one, two, and one generation of breeder, foundation, and certified seed. Limitation of age of stand is 3 and 5 yr, respectively, for breeder, foundation and certified seed. Seed production class is not recognized as 5311. 5311 was submitted on 19 Mar. 1991 for US Plant Variety Protection.


References and Notes


2. Pioneer Hi-Bred International, Inc., P.O. Box 50131. Registration by CSSA. Accepted 30 June 1992 by author.

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Registration of ‘5333’ Alfalfa

‘5333’ ALFALFA (Medicago sativa L.) (Reg. no. CV-180, PI 549106) was developed by Pioneer Hi-Bred International, Inc. and tested experimentally as XAM84 and YAM84. The cultivar was released 12 Feb. 1991.


Seed increase is limited by one, two and one generation of breeder, foundation, and certified seed. Limitation of age of stand is 3 and 5 yr, respectively, for breeder, foundation and certified seed. Seed production class is not recognized as 5333. 5333 was submitted in 1990 by the National Alfalfa Variety Review Board. An application for US Plant Variety Protection was submitted on 19 Mar. 1991 for 5333.


References and Notes


2. Pioneer Hi-Bred International, Inc., P.O. Box 50131. Registration by CSSA. Accepted 30 June 1992 by author.

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