Registration of ‘ReGen’ Alfalfa

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‘ReGen’ alfalfa (Medicago sativa L.) (Reg. No. CV-204, PI 643396) was developed by the Cornell University Agricultural Experiment Station, New York State College of Agriculture and Life Sciences, Cornell University, Ithaca, NY. This cultivar was released in 2005. Experimental designation was NY 0131.

ReGen is a dormant cultivar with fall dormancy similar to the FD3 check. It has high resistance to Fusarium wilt [caused by Fusarium oxysporum Schlecht. f. sp. medicaginis (Weimer) Snyd. & Hans.], Verticillium wilt, and anthracnose (Race 1); resistance to bacterial wilt [caused by Clavibacter michiganensis subsp. insidiosum (McCull.) Davis et al.] and Phytophthora root rot; and low resistance to Aphanomycoses root rot (Race 1) (caused by Aphanomyces euteiches Drechs.). In New York, ReGen averaged 1.08 Mg ha⁻¹ (9%) per year more dry forage than Oneida VR, 1.95 Mg ha⁻¹ (19%) more than ‘Vernal’, and 0.85 Mg ha⁻¹ (7%) more than ‘5312’ in three production years (Hansen et al., 2005). Concentrations of neutral detergent fiber and acid detergent fiber are similar to those of Vernal. Flower color of the Syn. 2 generation is 93% purple and 7% variegated.

In 2001 Breeder seed (Syn. 2) was produced under cage isolation in Caldwell, ID, in sufficient quantity to last the lifetime of the cultivar. The Department of Plant Breeding and Genetics at Cornell University maintains this seed under controlled environmental conditions. Foundation seed (Syn. 3) may be produced from Breeder seed in northern USA on stands no more than three years old unless by consent of the breeder. Certified seed (Syn. 3 or 4) may be produced from Breeder or Foundation seed on stands no more than six years old. Seed shall be sold by cultivar name only as a class of Certified seed. The National Alfalfa and Miscellaneous Legumes Variety Review Board reviewed ReGen favorably in 2006.

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References
