Registration of Crop Cultivars

REGISTRATION OF NUGGET ALFALFA1
(Reg. No. 106)
J. B. Moutray and J. R. Thomas

‘NUGGET’ alfalfa (Medicago sativa L.) was developed by the Rudy-Patrick Company, now North American Plant Breeders. It was tested as RP DC-5.

Nugget is a 4-clone cultivar. Two parental clones were derived from ‘Vernal’ and one each from ‘Alfa’ and ‘Tuna’. Source materials were screened for bacterial wilt caused by Corynebacterium insidiosum (McCull) H. L. Jens and/or pea aphid Acyrthosiphon pisum (Harris) resistance and winter survival. Parental clones were evaluated in clonal, polycross and single cross tests for winter survival and resistance to bacterial wilt and pea aphid, and were tested for general and specific combining ability for forage and seed yield. Breeder seed was produced in Washington and Idaho by interpollinating the two single crosses (Vernal × Vernal) and (Alfa × Tuna) in isolation with leafcutter bees [Megachile rotundata (F.)].

Nugget is similar in fall dormancy to Vernal. Nugget combines resistance to bacterial wilt (similar to Vernal) with moderate resistance to pea aphid. Resistance to potato leafhopper yellowing caused by Empoasca fabae (Harris) is similar to Vernal. Nugget has been tested for forage yield throughout the North Central region and is intended for use in this general area for hay, greenchop and dehy production.

Seed increase is limited to one generation each of breeder, foundation and certified seed classes. Certified seed may be grown from breeder or foundation seed. Seed produced from certified is not recognized as Nugget. There is no restriction on the area of production of foundation or certified seed.

Nugget was favorably reviewed by the National Certified Alfalfa Review Board in 1974. A plant variety protection certificate was issued in July 1979.

REGISTRATION OF CITATION ALFALFA1
(Reg. No. 107)
J. B. Moutray

‘CITATION’ alfalfa (Medicago sativa L.) was developed by North American Plant Breeders at Ames, Iowa. The experimental designation was RP DC-1.

Citation is a 7-clone synthetic. Two parental clones trace to ‘DuPuits’, two to ‘Vernal’, and one each to ‘Alfa’, ‘Narragansett’, and ‘Saranac’. Source materials were subjected to screening for resistance to pea aphid Acyrthosiphon pisum (Harris) and/or bacterial wilt caused by Corynebacterium insidiosum (McCull) H. L. Jens and winter survival. Parental clones were selected based on S1 and polycross progeny tests for forage yield, seed yield, bacterial wilt and pea aphid resistance, winter survival, spring vigor and fall dormancy. Breeder seed was produced near Nampa, Idaho on cuttings of the parental clones in isolation with pollination by leafcutter bees [Megachile rotundata (F.)].

Citation is similar in fall dormancy to ‘Ranger’. Citation has resistance to bacterial wilt and pea aphid similar to Vernal and ‘Kanza’ respectively. Citation has been tested for forage yield throughout the North Central region and is intended for use in this area for hay, greenchop and dehy production.

Seed increase is limited to one generation each of breeder, foundation and certified seed classes. Certified seed may be grown from breeder or foundation seed. Seed produced from certified is not recognized as Citation. There is no restriction on the area of production of foundation or certified seed.

Citation was favorably reviewed by the National Certified Alfalfa Review Board in 1974. A plant variety protection certificate was issued in November 1980.

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