CROP REGISTRATIONS

gasperma Drechs. f. sp. medicaginis T. Kuan & D.C. Erwin), spotted alfalfa aphid [Theroaphis maculata (Buckton)], blue alfalfa aphid (Acyrthosiphon kondoi Shinji), stem nematode [Ditylenchus dipsaci (Kühn) Filipjev], and bacterial wilt [caused by Clavibacter michiganense subsp. insidiosum, (McCulloch) Davis et al., 1984]. Both experimental lines exhibited excellent persistence and yield potential in forage yield tests at Bakersfield, CA. The two populations were recombined and screened for resistance to blue alfalfa aphid, stem nematode, and anthracnose. Germplasm traces to 'WL 512' (50%), 'WL 450' (30%), 'WL 504' (12%), and 'WL 600' (8%).

The fall dormancy of WL 457 is similar to that of 'Mesilla'. WL 457 has high resistance to spotted alfalfa aphid, blue alfalfa aphid, pea aphid [Acyrthosiphon pisum (Harris)], stem nematode, and fusarum wilt [caused by Fusarium oxysporum Schlechtend.:Fr. f. sp. medicaginis (J.L. Weimer) W.C. Snyder & H.N. Hans.]; resistance to phytophthora root rot; moderate resistance to bacterial wilt; and low resistance to anthracnose. WL 457 is a nondormant cultivar adapted for forage use in the southwestern and southeastern regions of the USA. Approximately 99% of the flowers are purple to dark purple in color, and =1% blue and blue variegated.

One generation of breeder (Syn 1) and two generations each of foundation (Syn 2 or 3) and certified (Syn 3 or 4) seed classes are recognized. Breeder seed was produced under cage isolation at Bakersfield, CA. Sufficient foundation seed was produced at Corcoran, CA, for the life of the variety. Maximums of 3 and 5 yr are permitted on fields producing foundation and certified seed, respectively. In 1990, WL 457 received a favorable review from the National Alfalfa Variety Review Board. Application has been made for a plant variety protection certificate.

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References and Notes


REGISTRATION OF 'LA 887' COTTON

'LA 887' COTTON (Gossypium hirsutum L.) (Reg. no. CV-97, PI 547084) was developed by the Louisiana Agricultural Experiment Station, LSU Agricultural Center, and released as a cultivar in May 1990. It was tested experimentally as LA 830887.

LA 887 originated from an individual F<sub>5</sub> plant selected from a cross of LA 434-RKR × DES 11-9. LA 434-RKR is an experimental strain with superior fiber quality and resistance to root-knot nematode (Meloidogyne spp.), and spin =9% stronger yarn (27 tex, 15 N) than Deltapine 41. LA 887 differs from DES 119 in having a lower lint percentage and lint index, heavier bolls and larger seed per boll, longer fiber, stronger yarn, and greater resistance to root-knot nematode. LA 887 is an open-boll cotton that combines excellent fiber quality and mechanical picker harvestability, normal level of plant pubescence and a typical petiole length and nectar glands. Leaves and bracts are dark purple in color and =1% blue and blue variegated.

LA 887 is more resistant to fusarium wilt than 'WL 235', based on 2-yr data (1988 to 1989) in the Deltapine Fusarium Wilt Test at Tallulah, LA. Basis of root galling, LA 887 is as resistant to root-knot nematodes as the LA 434-RKR parent and more resistant than Deltapine 41.

In 11 Louisiana tests (1987-1989), LA 887 outyielded Deltapine 41 control by an average of 10%. LA 887 performed well in cotton strain tests conducted by R.R. Bridge (1989) and R. R. Bridge (1989) average lint yield of LA 887 was 10% greater than controls, 'Stoneville 453' and 'Deltapine 20'. LA 887 has the highest mean lint yield of all 20 entries tested in High Quality Tests conducted in nine states (South Carolina, Georgia, Alabama, Mississippi, Louisiana, Arkansas, Texas, Tennessee, and Missouri) in 1989. It outyielded cultivars Deltapine 50, Coker 139, and Amana by 12, 15, and 39%, respectively. Its high relative yield across locations suggests broad adaptation.

Exclusive seed production and marketing rights have been established with Stoneville Pedigreed Seed, Stoneville, MS. The cultivar will be marketed as LA 887. Variety protection has been applied for under the Plant Variety Protection Act, Public Law 91-557 (PVP Application No. 9100065).


References and Notes