Regarded in the presence and absence of worm pressure. Yields equal to DES 119 at worm-controlled sites in these multistate (North Carolina to Texas) tests indicate that Arkot 8110 is widely adapted. 

Resistance to the tarnished plant bug [Lygus lineolaris (Palisot de Beauvois)] is usually not associated with the glabrous plant trait (7). Using the techniques of Maredia et al. (6), Arkot 8110 was as resistant as DES 119 (a pubescent cultivar) and ‘Stoneville 825’ (a pubescent, nectariless cultivar) in two field tests conducted in 1988 and 1994. 

During its selection, Arkot 8110 was screened for resistance to Races 1, 2, 7, and 18 of Xanthomonas campestris pv. malvacearum (Smith) Dye, the causal agent of bacterial blight. Resistance to these races conveys resistance to all known U.S. races of this pathogen. In subsequent tests, Arkot 8110 has not exhibited symptoms of bacterial blight even after field inoculations with the pathogen. In the Regional Cotton Fusarium Wilt Test at Tallassee, AL, resistance of Arkot 8110 to fusarium wilt [caused by Fusarium oxysporum Schlechtend.:Fr. f. sp. vasinfectum (Atk.) W.C. Snyd. & H.N. Hans.] was essentially equal to the resistant check in each of 3 yr. 

Small quantities of seeds for breeding purposes may be obtained from the corresponding author.

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References and Notes

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