and ICRISAT Center. Seven superior full-sib families were selected at Coimbatore, using supporting data from the other two locations. Disease free plants from the seven full-sib families were selfed in a downy mildew screening nursery at ICRISAT Centre. The resulting S1 bulk was sown in the next season's downy mildew nursery, and bulk pollen was used to enforce intermating. The experimental variety produced by this intermating was tested as WC-C75. In the five subsequent generations, before the production of breeder seed, a small proportion of the plants in the cultivar, which was naturally intermated in isolation, were discarded for poor agronomic characteristics.

Breeder seed has been made available to the National Seeds Corporation and many other government and non-government Institutions in India, and will be maintained by the Pearl Millet Improvement Program, ICRISAT.

D.J. ANDREWS, S.C. GUPTA, AND PHERU SINGH(2)

References and Notes

2. Professor, Dep. of Agronomy, Univ. of Nebraska, Lincoln, NE 68583, former program leader and plant breeder, Pearl Millet Improvement Program, ICRISAT; pearl millet breeder, ICRISAT West African Cooperative Program, CNRA. Bambey, Senegal; and plant breeder, Pearl Millet Improvement Program, ICRISAT Patancheru P.O., A.P. 502 324, India respectively. Registration by the Crop Sci. Soc. of Am. Accepted 30 July 1984.

REGISTRATION OF COWLEY SWEET SORGHUM

‘COWLEY’ is a sweet sorghum, Sorghum bicolor (L.) Moench, (Reg. no. 124) cultivar developed for sucrose and biomass production in the Lower Rio Grande Valley of Texas. The cultivar was released in 1984 through the cooperative research programs of the Texas Agricultural Experiment Station and the USDA-ARS. Cowley was selected in 1971 from an F2 progeny of the cross Mer. 64-7 × Mer. 64-6 and was evaluated as Mer. 75-10.

The panicle of Cowley is erect, compact and elliptic in shape. The panicle branches from eight nodes. Pubescence on the dark brown to black glumes is semideciduous except on the edges where it is longer and more persistent. The indurate glumes have a sharp apex and cover approximately one-half of the caryopsis at maturity. The glumes do not clasp the grain at maturity and are nonpersistent in the threshed seed. The seed of Cowley is medium to large in size, colored, ovate, and displays a dimple. Cowley has a white pericarp and a brown testa. The coleoptile is green with a medium to thick corneous sheath. Cowley are juicy and sweet. The juice quality is equal to that of Wray while its yields of millable stalks and sugar per hectare are approximately 20% greater.

Breeder seed will be maintained at the Texas Agric. Exp. Stn., Weslaco, TX 78596.

S. KRESOVICH, H. E. BROWN, AND D. M. BROADHEAD (1)

References and Notes

1. Assistant professor, Texas Agric. Exp. Stn., Weslaco, and USDA Sugar Crops Field Stn., Meridian, TX 77843. This research was conducted in cooperation with the USDA-ARS, Southern Region. Registration by the Crop Sci. Soc. of Am. Accepted 30 July 1984.