germ is midsized; the crease is midwide and shallow; the cheeks are rounded; and the brush is midsized and midlong.

Nicoma has dark, hard kernels. It is similar to Triumph in maturity, plant height, test weight, and winterhardiness, but has stronger straw than Triumph. Nicoma apparently carries the "Triumph Type" resistance to loose smut. Although susceptible to leaf rust in the seedling stage, Nicoma has some degree of adult plant resistance. In field tests, it has consistently averaged 15% less leaf rust than Triumph. During 5 years (1967 to 71) of testing in Oklahoma, Nicoma exceeded Triumph in grain yield by an average of 12% and was slightly better than 'Scout 66' and 'Danne'. Nicoma is markedly superior to Triumph in milling and baking quality. It has a long mixing time and a high mixing tolerance of the dough, and hence, should be useful in blending with mellow-gluten wheats in the production of bread flour. The replacement of production acreage by Nicoma would tend to improve the overall quality of the wheat crop in Oklahoma.

Breeder seed, which initially resulted from 300 head rows, will be maintained by the Oklahoma Agr. Exp. Sta. Research geneticist, formerly at Georgia Coastal Plain Exp. Sta.

Variety protection has been applied for under the Variety Protection Act, Public Law 91-577, and it may be sold only as a class of certified seed as a protected variety.


Registration of Germplasm

REGISTRATION OF TIFT 23B tr PEARL MILLET GERMPLASM

(Reg. No. GP 4)

Jerrel B. Powell and Glenn W. Burton

Tift 23B tr (Reg. No. GP 4) pearl millet (Pennisetum typhoides (Burm.) Stapf and C. E. Hubb.) is a dwarf obtained from Chile in 1968. The initial hybrid plants were obtained from embryos excised 14 days after pollination and cultured on artificial medium. Seedling vigor was increased with colchicine to produce the amphidiploid.

UC-38 hexaploid triticale (X Triticosecale Wittmack) (Reg. No. 3081-1a made at the University of California, Davis. The rye parent, a tall line, was obtained from the collection of wild rye made in California by C. A. Suneson. UC-38 is moderately tall (about 100 cm) with stiff straw. The durum parent, used as a female in the cross, is a senti-