REGISTRATION OF TAMEX WHEAT
(Reg. No. 653)

K. B. Porter, E. C. Gilmore, and R. E. Finkner

'TAMEX,' a short-stature, hard red winter wheat (Triticum aestivum L., em Thell.), was developed cooperatively by the Texas Agric. Exp. Stn. and ARS-USDA. Tamex was tested as TX69A450-1 and has been assigned CI 17889. TX69A450 was selected at the USDA Conservation and Production Research Laboratory in 1969 from a progeny of a composite bulk made up originally of F3 seed from crosses and backcrosses of several short experimental wheats to 'Scout.' This was the same composite from which TAM 105, CI 17826, was selected.3 TX69A450-1 was selected as a single spike from TX69A450 in the F3 in 1969. The short wheat parents used to develop the composite bulk were primarily selections from crosses of a sib of 'Sturdy,' TX391-56-22, with a number of normal height experimental lines and commercial cultivars. However, some crosses involved 'Norin-16' derivatives as the short parent, a fact which was inadvertently omitted in the description of TAM 105.3

Crosses of the composite, called short wheat/Scout, were made at the USDA Production and Conservation Research Laboratory in 1966. Tamex was jointly named and released by Texas and New Mexico Agric. Exp. Stns. in 1980.

Tamex averaged about 5 cm taller than 'Vona' and 8 to 10 cm shorter than Scout 66 in irrigated trials on the High Plains of New Mexico and Texas and is about the same maturity as 'Centurk.' Spikes are awned, fusiform, midsize, and erect. Glumes are white, glabrous, midlong, and midwide. Glume shoulders are oblique and midwide. Beaks are narrow and acuminate, 3 mm in length at the base to 5 mm long at the spike apex. Awns are 6 to 9 cm long. The kernels are elliptical and have midsize germ. The crease is rounded, midwide, and shallow to middeep. The brush is midsize and midlong.

In the Southern Regional Performance Nurseries, 4 1974 and 1975, the 2-year average yield of Tamex equaled the yield of 'Sage,' TAM 106, and 'Lindon,' and was 108% of the yield of 'Scout 66.' In irrigated yield trials at the New Mexico Agric. Exp. Stn., Plains Branch Station, Clovis, its 5-year average yield equaled that of Centurk but was less than that of TAM 105.2 Tamex equaled or exceeded the yield of Centurk but was less than that of TAM 105 in irrigated trials at the USDA Conservation and Production Research Laboratory, Bushland, Texas. The test weight of Tamex has averaged about the same as that of Scout 66 but 1.3 kg/hl less than that of Centurk in irrigated trials at Clovis, New Mexico, and 1.4 kg/hl less than that of TAM 69A450 in regional trials.4

Tamex is recommended only for high soil moisture and fertility levels. It has performed poorly on dryland on the High Plains of Texas and New Mexico. Tamex is resistant to lodging, moderately resistant to leaf rust (caused by Puccinia graminis Pers. f. sp. tritici Erikis, and E. Henn.). Tamex has good milling and baking characteristics, dough-mixing tolerance, and loaf volume. It has had relatively high flour protein in nearly all tests. Results of regional milling and baking tests indicate that Tamex has promise for quality characteristics.9

Breeder seed will be maintained by New Mexico Agric. Exp. Stn. at Plains Branch Station, Clovis, NM 88101. Foundation seed will be available from the New Mexico Crop Improvement Association, New Mexico State Univ., Box 3C1, Las Cruces, NM 88004-

REGISTRATION OF AUBURN WHEAT
(Reg. No. 652)


'AUBURN' (CI 17898) soft red winter wheat (Triticum aestivum L., em Thell.), was developed at the Purdue Univ. Agric. Ext. Stn. in Indiana and ARS, USDA, was released in 1981. It was tested regionally as Purdue 69195C9-4-1-1 before it was named AUBURN.

The abbreviated parentage of Auburn is: 'Seta' x Purdue 6470 sel./'6/AFGHAN sel./Purdue 5374

Auburn was evaluated in Indiana in nursery yield trials from 1975 to 1980, in intra-state drill plot performance plots, and in disease nurseries from 1970 to 1980. It was tested regionally in the Uniform Eastern Soft Red Winter Wheat Performance Tests and milling and baking qualities were evaluated from 1976 to 1979.

Auburn is outstanding for winterhardiness in Indiana. It is moderately resistant to leaf rust and may express anthocyanin pigmentation. The young plant is semi-erect and may express anthocyanin pigmentation. The sheath of the first leaf is glabrous, medium green at booting and the flag leaf is generally twisted. The flag leaf sheath shows a light bloom. The flag leaf averages 11 mm wide and 16 cm long. Auricles are red, ovate, and average 6 mm long, 3 mm wide, and 29 mg in dry weight. The peduncle has a very light bloom. The leaf below the flag leaf averages 11 mm wide and 16 cm long. Auricles are red, ovate, and average 6 mm long, 3 mm wide, and 29 mg in dry weight. The peduncle has a very light bloom. The leaf below the flag leaf averages 11 mm wide and 16 cm long. Auricles are red, ovate, and average 6 mm long, 3 mm wide, and 29 mg in dry weight.

Spikes are lax to mid-dense, tapering, awned, brownish-white to white at maturity. Spikes average 13 mm wide. Glumes are glabrous, midlong, and midwide. Shoulders are rounded and beaks are obtuse and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize. Awns are red, ovate, and average 6 mm long, 3 mm wide, and midsize.