REGISTRATION OF GOLDEN 50 WHEAT

E. G. Heyne

Golden 50, *Triticum aestivum* L. em. Thell., is a hard red winter wheat selected by E. G. Clark of Sedgwick, Kansas, from 'Rodeo.' Rodeo is a mixture of two varieties released by the Rodney Milling Co. of Kansas City. Rodeo is a mixture of two types. The red-chaffed component is similar to 'Concho' for all traits studied. The white-chaffed component is very similar to an experimental strain CI 12406 from the cross 'Marquillo'-Oro X 'Oro-Tenmarq.'

Clark selected white-chaffed plants from Rodeo and carefully evaluated 11 lines and began increase of 1 line in the fall of 1962. He named the selection Golden 50, because 1962 was 50 years after his discovery of 'Blackhull' in a field of 'Turkey' in 1912. Golden 50 first was sold to the public in the fall of 1963.

Golden 50 has a winter growth habit; matures midseason to late; has a midtall, white, strong stem; spike is awned, fusiform, middense, inclined; the glumes are glabrous, white, midwide and midlong; the shoulders are midwide and square to rounded; the beaks vary in length 5 to 15 mm; the awns are white, 5 to 7 cm long; the kernels are red, hard, short, oval with a small germ; the crease is middeep; the cheeks more angular than round; the brush midsize and midlong.

The important characteristics of Golden 50 are resistance to Hessian fly, bunt, and leaf rust and long dough mixing time. Yield performance is average, test weight below average, and maturity is later than desired by most Kansas growers.

Clark worked with Elden Smurr, chemist, American Flours Co. of Newton, Kansas, in quality evaluation of the white-chaffed selections and retained lines with long mixing time. The long dough mixing time of Golden 50 is one of its important characteristics. The mixing tolerance is also good. The loaf volume makes this variety useful for blending with weaker wheats for bread flour production.

A number of comparisons of Golden 50 have been made with CI 12406 which is a selection of the cross Marquillo X Oro X Oro-Tenmarq. They are the same for response to stubble, loose smut, Hessian fly, maturity, height, and grain appearance and they produce the same type mixogram curve. However, Golden 50 is more uniform in height and heading, sometimes appearing to be a day earlier in heading than CI 12406.

Mr. Clark maintains seed of Golden 50 on his farm near Sedgwick, Kansas.

REGISTRATION OF MARICOPA WHEAT

A. D. Day, R. K. Thompson, and F. M. Carasso

Maricopa, *Triticum aestivum* L. em. Thell. was released in 1966 by the Arizona Agricultural Experiment Station and the Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture. It is a semidwarf, white, spring wheat with the following parentage: 'Ramona 50' X 'Ramona 44' X 'Norin 10' X 'Brevor-14.' The first cross (Norin X Brevor) was made at Pullman, Wash. in 1949. Norin 10 is a semidwarf wheat from Japan, and Brevor is a white, winter wheat from the Pacific Northwest. Selection 14 was obtained from O. A. Vogel, Pullman, Wash., in 1954.

REGISTRATION OF ANDNOX WHEAT

W. P. Byrd, Joyce Graham, Jr., E. B. Eskew, and Graydon Kingsland

Andnox, *Triticum aestivum* L. em. Thell., was selected from an 'Anderson' X 'Knox' cross. The variety is an increase of a single F1 plant selection made in 1960 by the senior author at Clemson University. It was named and released in the fall, 1966 and distributed by the South Carolina Foundation Seed Association.

Andnox has resistance to mildew and leaf rust equal to Anderson. Its resistance to soil-borne mosaic is excellent being superior to any presently grown variety tested in South Carolina. Andnox is an early, short to midtall variety with strong white stems. It is awnless with small tip awns in certain environments. Spike is fusiform, middense, inclined. Glume is white, glabrous, midsize with shoulder midwide and rounded to oblique. Beak is midwide and obtuse. Kernel is red, midlong, ovate; germ is midsized; crease is midwide, middeep with rounded cheek; brush is midsized and midlong.

Andnox is adapted to the Southeast; milling and baking qualities are excellent and test weight is good. Breeder seed will be maintained by the Department of Agronomy and Soils, Clemson University.

REGISTRATION OF SHERIDAN WHEAT

F. H. McNeal

Sheridan, *Triticum aestivum* L. em. Thell., was selected from the cross of 'Frontant' X 'Kenya 58-' 'New-thatch,' C.I. 13154 X 'Pilot.' The cross was made at the Montana Experiment Station.

REGISTRATION OF CROP VARIETIES

Published July, 1967