REGISTRATION OF GUIDE WHEAT1
(Reg. No. 486)
V. A. Johnson, J. W. Schmidt, P. J. Mattern, and A. F. Dreier

'GUIDE' wheat, *Triticum aestivum* L., Nebraska Selection 61608, C.I. 18856, is a hard red winter wheat cultivar selected from the cross 'Cheyenne'*/Kenyay/Mentana' made at Lincoln, Nebraska, in 1957. The Kenya/Mentana parent was Selection 56-8c-17c-7c-13c from the Rockefeller-Mexican wheat improvement program. Guide was developed cooperatively by the Nebraska Agricultural Experiment Station and Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture. It was released to Nebraska certified wheat producers in 1967.

Guide is an awned, white-glumed winter cultivar with seed that is moderately hard and red in color. An F₅ plant, selected for hard seed and stem rust resistance, was propagated without further selection as Nebraska Selection 61608. Yield testing of NB61608 in Nebraska was initiated in 1962. NB61608 was advanced to the Southern Regional Performance Nursery in 1963. Guide is an early maturing cultivar with moderately short stiff straw. It exhibits adult plant resistance to the stem rust races prevalent in the hard red winter wheat region during its testing period. It is susceptible to leaf rust, loose smut, bunt, streak and soil-borne mosaic, and hessian fly. Guide has only fair winterhardiness, and its production in Nebraska has been encouraged only in the south central and southwest cropping districts. The quality of Guide is excellent. It mills satisfactorily and produces flour with moderately long mixing dough requirement and good mixing tolerance.

It received high quality ratings from commercial millers and bakery collaborators prior to release.

Guide is somewhat less productive than the popular 'Scout' variety. Its use by growers as a second variety on a portion of their acreage provides a broader base of stem rust resistance and spreads their production and harvest risks.

Breeder seed of Guide will be maintained by the Department of Agronomy, Nebraska Agricultural Experiment Station.

REGISTRATION OF SCOUT 66 WHEAT1
(Reg. No. 487)
J. W. Schmidt, V. A. Johnson, A. F. Dreier, and P. J. Mattern

'Scout 66' wheat, *Triticum aestivum* L. C.I. 13996, is a composite of 85 selections from the hard winter variety 'Scout,' C.I. 13546. The Nebraska Agricultural Experiment Station and the Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture, cooperatively developed and released Scoutland to Nebraska certificated wheat producers in 1970.

Scoutland differs significantly from Scout in having distinctly differentiating traits. The difference in beak length offers an excellent means of differentiating Scoutland from Scout and Scout 66 in the field. Glumes with long beaks. Scout and 'Scout 66' have short beaks. Scoutland tallies to 1 day earlier in maturity and 2.5 to 5 cm (1 to 2 in.) shorter in plant height. The spikes of Scoutland possesses awned and white glumed with short beaks. Its seed is hard, large, and red in color. An F₅ plant, selected from the 'Scout' cultivar, C.I. 13546, made at Lincoln, Nebraska was released to Nebraska certificated wheat producers in 1967. Foundation seed from a 24-ha field at Mead, Nebraska was released to Nebraska certificated wheat producers in 1970.

Scoutland is similar to Scout in yield, economic traits. It exhibits the same level of stem rust resistance currently prevalent in Nebraska. Breeder seed of Scoutland will be maintained by the Department of Agronomy, Nebraska Agricultural Experiment Station.