REGISTRATION OF GERMLASM

607

REGISTRATION OF L8 VETCH GERMLASM

(Reg. No. GP 1)

E. D. Donnelly

'L8' vetch is a Vicia sativa type line derived from an interspecific cross, V. sativa L. ('Ala. 1894') × V. angustifolia L. (P.I. 121275). The V. angustifolia parent was later reclassified V. cordata Wulff. Pure line breeding was used following the cross through F2. The line has been maintained by growing bulked seed. L8 was developed as elite germplasm at the Auburn University Agricultural Experiment Station. It combines hard seedcoat from the male parent with high herbage and seed yields of the soft seeded Ala. 1894 female parent. L8 is true breeding for the desired traits. L8 is early; has purple flowers; is approximately equal to 'Willamette' and 'Warrior' varieties of common vetch; is resistant to the vetch bruchid, Bruchus brachialis Fahr.; and is resistant to the root knot nematode species, Meloidogyne incognita, M. incognita acrita, and M. javanica. Ala. 1894 has a white flower which is important as a recessive genetic marker when making cross-pollinations with highly self-pollinated vetch species.

Small samples of Ala. 1894 seed are available upon request from Auburn University Agricultural Experiment Station, Auburn, Ala. 36830.

1 Registered by the Crop Science Society of America. Received Jan. 21, 1971.

2 Professor, Department of Agronomy and Soils, Auburn University Agricultural Experiment Station, Auburn, Ala. 36880.


REGISTRATION OF BOLAL WINTER WHEAT GERMLASM

(Reg. No. GP 28)

V. A. Johnson and J. W. Schmidt

'Bolal' winter wheat, C.I. 13501 (Triticum aestivum L.), was developed cooperatively by the Nebraska Agricultural Experiment Station and the Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture. Bolal was selected from the cross 'Cheyenne'/2/'Kenya'/Mentana' made at Lincoln, Nebraska in 1951. It was utilized as one parent of 'Guide' hard red winter wheat released by the Nebraska Agricultural Experiment Station in 1967. The Government of Turkey registered and released Bolal for commercial production in 1970.

Bolal is a productive, early-maturing variety with moderately short straw. Its glumes are white and awned. It possesses field resistance to stem rust races prevalent during its testing period in Nebraska. It is susceptible to other diseases and lacks the level of winterhardness necessary for safe production in Nebraska. It produces grain with semi-hard texture but with excellent bread-baking quality.

Bolal germplasm is available on request from the Agronomy Department, University of Nebraska, or the Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture, Beltsville, Maryland 20705.

1 Registered by the Crop Science Society of America. Received Dec. 5, 1970. Cooperative investigations of the Nebraska Agricultural Experiment Station and the Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture, approved for publication by the Director of the Nebraska Agricultural Experiment Station as Journal Series Article No. 2954.

2 Research Agronomist, Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture, and Professor, Nebraska Agricultural Experiment Station, Lincoln, Nebraska 68503.