REGISTRATION OF BOUNTY 309 WHEAT

David R. Johnston, Byrd C. Curtis, and Bill J. Roberts

Bounty 309 is a hard, red, spring wheat, was selected by Cargill breeders from germplasm received from the International Maize and Wheat Improvement Center (CIMMYT), Mexico D.F., Mexico. The experimental designation during development was Cargill 309.

Bounty 309 is described as follows: Plant spring habit, medium maturing, relatively daylength insensitive (similar to 'Tina 66'), semidwarf stature; stem white, strong, spike awned, tapering, midwide, multiflorous; glumes glabrous, long, midwide, white, shoulders wanting at base and apiculate at apex, medium length, acuminated, 5 to 10-mm long; awns white, 3 to 8-cm long; kernels red, midlong, hard, elliptical, germ midsize, crease midwide, middeep; checks rounded; brush midized, short.

Bounty 309 has stem rust resistance equal to that of 'Chris,' 'Manitou,' and 'Neepawa.' It is susceptible to certain stem rust races of the group 11-82-113. It has moderate resistance to leaf rust and is not normally infected by ergot.

The development of Bounty 309 by Cargill began in 1968 from a composite of head selections made from the CIMMYT cross II-275/5 grown as an F2 at Obregon, Mex. Individual plant selections from the F2 population grown at Ft. Collins in 1968 were grown as F3s, progeny in California, in the winter of 1968 to 69. Plant selections were grown as F4s at Glyndon, Minn., in 1969 where a single F4 plant progeny was harvested in bulk for subsequent yield testing. Yield trials, which included Bounty 309, have been conducted in California, Arizona, Idaho, Minnesota, North Dakota, South Dakota, and Colorado during the period 1970 to 1973. Observation trials have been grown in Washington and Oregon.

Bounty 309 is best adapted to the hard, red, spring wheat areas of Colorado, North Dakota, South Dakota, and Minnesota and also performs well in Arizona, Oregon, and California.

In quality characteristics Bounty 309 has good absorption (similar to that of Chris and 'Waldron'), medium dough mixing properties, and good loaf volume. It is slightly lower in protein content but has other milling and baking properties similar to Chris.

Breeder seed of Bounty 309 will be maintained by Cargill, Inc. at the Cargill Wheat Research Station, Fort Collins, Colo. Application has been made to the USDA for a Plant Variety Protection Certificate.

REGISTRATION OF FOUR WHEAT CULTIVARS

D. W. Sunderman and Bernard Bruinsma

BOURAH

Bourah (CI 17206) is a hard red spring wheat (Triticum aestivum L.) em. Thell.), which was released jointly by the ARS and the Idaho and Oreg. Exp. Stns. in 1974.

HEGLAR

Heglar (CI 17268) is a soft white spring wheat, which was released jointly by the ARS and the Idaho, Oregon, and Wash. Agr. Exp. Stns. in 1974.

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