

Application for Variety Certification

A. Variety Name:

BR3677

B. Origin and Breeding History:

BR3677 is a hard red spring wheat derived from a 1993 F₂ hard selection from a World Wide Wheat, L.L.C. (W³) male sterile facilitated recurrent selection (MSFRS) quality hard red spring wheat population grown at Maricopa Arizona. Generation advancement was by "best plant" selection that continued through the F₂. The F₃ generation was grown at Moscow, Idaho with severe Hessian Fly pressure. A breeder strip was grown in Ronan, Montana in 1997, out of the Karnal bunt quarantine area. Head rows were grown for purity in 1998 at Maricopa and subsequent Foundation seed fields were grown at Floy, Arizona and Kings county California in the production year 2000.

BR3677 fields were rogued for offtypes, tall and recessive male sterile plants. There are no known variants. Because of the possible presence of unrecognized male sterile and outcrossed plants, it is expected that up to 1 in 1000 male sterile and/or offtype plants may occur in the next generation. Head rows are being grown in North Dakota 2000 to eliminate or reduce continued occurrence.

C. Detailed Description:

Juvenile growth of BR3677 is erect and with slight pigmentation at this time. Spikes are long mid-dense to lax, tapered, awned and white at maturity. The large glumes are glabrous and have square shoulders. Beaks are acuminate and 7 mm long. The seeds are of moderate size, red and elliptical with a large germ, a long brush and a distinct collar. The crease is shallow with rounded shoulders. The seed head at maturity curves into an incline of 30° and stands on a large long pedicel which may vary from 20 to 40cm long depending on production inputs. At flag leaf stage the leaves are dark green and not recurved plant height range was 31 inches at Tammany, Idaho to 47 inches at Maricopa Arizona in 1998. BR3677 has a relatively strong gluten. The data would indicate that flour quality and protein are competitive if not superior to other varieties. However BR3677 is known to have tolerance to leaf rust and Hessian Fly.