Registration of ‘Jagger’ Wheat

‘Jagger’ hard red winter wheat (Triticum aestivum L.) (Reg. no. CV-836, PI 593688) was developed cooperatively by the Kansas Agricultural Experiment Station and the USDA-ARS. It was released to seed producers in 1994. Jagger is an increase from an F_2 head row, reselected again as an F_3 head row from the cross CKS82W418’/‘Stephens’, made in 1984. Jagger was released because of its high grain yield, strong general disease resistance, and excellent bread-baking quality.

Jagger is awned, brown-chaffed, and semidwarf. It is similar in height to ‘Karl 92’ and 1 d earlier in heading. Its winterhardiness is similar to that of ‘Newton’ and less than that of ‘Scout 66’. Stems of Jagger are white, strong, and hollow; the flag leaf is erect, not twisted, and glabrous. Spikes of Jagger are midlong, oblong, and lax. At maturity, the spikes are inclined. Glumes are tan, with a brown line on the outside edge of the glume and lemma; they are long, wide, and rounded at the shoulder. The beak is narrow, midlong, and acuminate. The kernel is red, hard, and ovate; the germ is midsized; the crease is midwide and shallow, the cheeks midlong, and acuminate. The kernel is red, hard, and ovate; the germ is midsized; the crease is midwide and shallow, the cheeks midlong, and acuminate. The kernel is red, hard, and ovate; the germ is midsized; the crease is midwide and shallow, the cheeks midlong, and acuminate.

Jagger has been evaluated as KS84063-9-39-3 in the Kansas Intrasite Nursery since 1992. It was evaluated in the USDA Southern Regional Performance Nursery in 1993 and has been evaluated in the Kansas Variety Performance Tests since 1993. In Kansas tests (40 location-years), Jagger has been 14 and 8% higher in grain yield than Karl 92 and ‘2163’, respectively. It is recommended for all growing areas in Kansas south of Interstate Hwy. 70.

Jagger is resistant to stem rust (caused by Puccinia graminis Pers.:Pers.), leaf rust (caused by Puccinia recondita Roberge ex Desmaz.), tan spot [caused by Pyrenophora tritici (Fr.) Fckl.], speckled leaf blotch (caused by Septoria tritici Roberge in Desmaz.), wheat soiborne mosaic virus (SBWMV), and wheat spindle streak mosaic virus (WSSMV). It is moderately resistant to glume blotch [caused by Phaeosphaeria nodorum (E. Müller) Hedjaroude], bacterial streak (caused by Xanthomonas campestris pv. translucens) and cephalosporium stripe (caused by Cephalosporium gramineum pv. translucens) and cephalosporium stripe (caused by Cephalosporium gramineum pv. translucens). Jagger is tolerant to AI toxicity caused by low soil pH, being equal to 2163 in this regard.

Hard wheat milling and bread-making qualities of Jagger are excellent and similar to Karl 92, except that Jagger has slightly lower grain volume weight and requires a shorter dough-mixing time.

Cultivar protection of Jagger under the U.S. Plant Variety Protection Act, Public Law 91-577, has been granted (PVP no. 9500324). Breeder seed will be maintained by the Kansas Agric. Exp. Stn., Manhattan, KS 66506.


References and Notes


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