

BG 46e

(Exp.# BZ493-46e)

Two-rowed, Hulless, Spring Barley

September 2008

Description for Crop Improvement

BG 46e was developed by WestBred, LLC by crossing WestBred's short, two-rowed, hulless, Male Sterile Facilitated Recurrent Selection Population, with Prowashonupana. BG 46e is a short awned, two-rowed spring barley. BG 46e is hulless (naked) and has a waxy (high amylopectin starch), shrunken endosperm. It is medium height. It is mid-season in maturity and adapted to the intermountain areas of the Pacific Northwest. The stem has a waxy coating, a closed collar and the neck is straight. The leaves are slightly waxy in appearance and there is no anthocyanin in the leaf sheath or stem. The head is erect (not dense), strap shaped, with a waxy coating and nodding at maturity. The glume length is $\frac{1}{2}$ the length of the lemma and the glume has a band of short hairs. The glume awns are equal to the length of the glumes and the surface is rough. The lemma has a short awn, and the awns are semi-smooth. Both lemma teeth and lemma hairs are absent, and the rachilla hairs are few, but long. The seed is naked, midlong, and has a white (or colorless) aleurone.

A covered variant may occur at a frequency of up to 0.18% (18 per 10,000 seed). A long awned plant (either two-rowed or six-rowed) may occur at a frequency of up to 0.18% (18 per 10,000 plants). Otherwise, no other variants are known to occur and BG 46e is a stable and uniform variety in appearance and performance. BG 46e is patent pending, (a Utility Patent application has been accepted by the US Patent and Trademark Office, Serial No. 12/393,843).

