

Exhibit C. Objective Description of the Variety

WB-Grainfield is a common winter wheat with a white coleoptile and semi-erect juvenile plant growth. The plant color at boot stage is blue-green. The flag leaf at boot stage is erect, not twisted, and has wax present. The anther color is yellow. The stem lacks anthocyanin, lacks waxy bloom, is not hairy, has hollow internode, and has a semi-erect peduncle. The head is middense, tapering, inclined, and is awned. The glumes are white, with square shoulders that are narrow, with acuminate beaks that are medium width. The glumes are short and narrow, with no pubescence. The seed shape is elliptical, with rounded cheeks, a long brush, and narrow, shallow creases. The seed color is red, and the seed texture is hard. The germ size is large. WB-Grainfield is medium-late maturity, averaging a day earlier than the variety Hitch, and four days later than the variety Armour. Plant height is medium, averaging 10 cm taller than the variety Hitch, and 5 cm shorter than the variety Billings. Variants that may occur include .02% awnless types, 0.5% talls (> 10cm), and 0.4% red chaffed types.

WB-Grainfield is adapted to the southern Great Plains. It is resistant to current races of leaf rust and moderately resistant to stripe rust. It is resistant to soil borne mosaic virus and spindle streak mosaic virus. It is moderately resistant to prevalent races of stem rust. It has intermediate resistance to tan spot and speckled leaf blotch. It is susceptible to fusarium head scab and powdery mildew. It is moderately susceptible to wheat streak mosaic virus.

Remnant breeder seed will be utilized to reproduce the variety as needed. If necessary, 300 heads will be selected from the breeder seed increase and grown under irrigation in Arizona, Colorado, or Washington to renew the breeder seed and maintain purity. Seed classes to be recognized include Foundation, Registered, and Certified. We anticipate certified seed sales in fall 2012. Plant Variety Protection will be applied for. The certification option will not be elected. AOSCA and seed certifying agencies may not publish acreages.

