

Barley

Claymore

1. Claymore (TR12733), two-rowed spring barley, was developed by WestBred/a Unit of Monsanto, from the cross CDC Copeland/Xena. (Ownership of all barley germplasm has been transferred from WestBred/Monsanto to Highland Specialty Grain).
2. Agronomically desired rows were selected, harvested, and given permanent numbers. One such selected row was given the experimental designation, BZ509-216, and later TR12733.
3. Seed from Bozeman plot was harvested in September 2010 and used to plant replicated (F6) yield trial plots near Bozeman and 5 location in Alberta, Saskatchewan and Manitoba in May, 2011. Continued yield testing of F7-F9 seed was performed in 2012-2013 in the provinces of Alberta, Saskatchewan, and Manitoba. Claymore has shown good adaptation to these areas.
4. Claymore is moderately resistant to moderately susceptible to common root rot. Claymore has the RPG1 gene for Stem Rust resistance. It also has an intermediate reaction to the surface borne smuts.
5. Identifying characteristics – insert the descriptive term from the Objective Description (pages 3-5) except where indicated:

1. Growth Habit:	Spring	16. Plant Height (see below):	
2. Spike:	2 Row	17. Spike Shape:	Oblong
3. Coleoptile Color:	Green	18. Spike Density:	Mid-Dense
4. Juvenile Growth Habit:	Semi-Erect	19. Spike Position at Maturity:	Inclined
5. Plant Tillering:	High	20. Hairiness of Rachis Edge:	Lacking
6. Leaf Color at Boot:	Green	21. Rachilla Hair Length:	Long
7. Flag Leaf at Boot:	Erect, No Twist, Not Waxy	22. Lemma Awns:	Straight
8. Pubescence on Leaf Blade:	None	23. Length of Lemma Awns:	Long
9. Pubescence on Leaf Sheath:	None	24. Lemma Awn Surface:	Rough
10.:Auricle Color:	White	25. Glume Hairiness:	Covered
11.Heading Date (see below):		26. Glume Awn Surface:	Rough
12. Stem Color:	White	27. Glume/Lemma Adherence:	Covered
13. Neck Shape:	Straight	28. Texture (if covered):	Slightly Wrinkled
14. Collar Shape:	V-Shape	29. Aleurone Color:	Colorless
15. Spike Exertion:	Full	30. Avg 1,000 Kernel Wt (g):	46.1

Heading date: July, 1 which is: 2 days (LATER) than: Xena

Plant height: 83 cm, cm, which is 0 cm (SAME AS) Xena

Physiological or biochemical traits:

Variants and their frequency: "TR12733", 2 row barley is a stable and uniform variety in appearance and performance which has been observed over F6 to F10 generations. Claymore may contain tall variants (4-8 inches taller) at a frequency of up to 4/10000 seed. (0.04%). No other variants are known to occur.

6. Highland Specialty Grain and Crop Production Services (CPS) of Canada will maintain Breeder seed by planting head rows when necessary. The certified classes of seed shall be: Select, Foundation, Registered and Certified.
7. Certified Seed will possible be sold in the Spring of 2016.
8. Application will be made for protection in the United States of America under the Plant Variety Protection Act and in Canada under the Plant Breeder Rights Act.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Feb 11, 2015

Date recommended by the VRB: Apr 15, 2015

