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Plant Research

To: Washington Crop Improvement Association

From: Kurt Braunwart
Breeder/ProGene Plant Research L.L.C.

Date: May 15, 2009

Statement of origin and breeding history for 114 Oat

114 Oat (Sold under brand name as EverLeaf 114 oat but originally with research number of CROA 114 oat) was bred by Crop & Food Research of Christchurch, New Zealand by Kieth Armstrong in 1994. Parents were FINLAY X L84-1137,G1.

Areas of adaptation are: San Joaquin Valley of Central California as a boot stage forage oat and in the Pacific Northwest as a spring nurse crop. Product is unique in California in that heading is greatly delayed while in the Pacific Northwest seed growing areas the heading is near normal.

Information of value to field inspectors:

- 114 oat has a compact panicle that rises only about 5 inches +/- above the leaf canopy.
- Seed head maintains green color until plant starts to mature and dry down. Most other oats have a silver green look to the seeds in the green panicle.
- 114 oat has similar plant growth and appearance characteristics as 126 oat except that 114 oat is 7-9 days earlier to head out and mature in the Pacific Northwest and 114 oat is roughly 15% shorter than 126 oat.
- There is a variant of less than 1/2 of 1 percent in the variety of taller plants with a more open, traditional panicle.

Information of value to the seed analyst:

- Seed size from 2002 production was 40.0 grams per 1,000 seeds. (11,350 seeds/lb.)
- Traditional oat seed shape
- Seed color is variable but generally of the reddish brown color.

Statement relative to disease resistance:

- 114 oat has not been seen to be susceptible to any races of crown or stripe rust. However with so many races and mutations this cannot be a complete certainty.

Procedures for maintaining seed stock and seed classes to be recognized:

- ProGene will receive from Crop & Food Research Pre Breeders seed. ProGene will produce and maintain Breeders and Foundation seed through plot refinement method. Plantings of Breeders seed will be made and a portion will be carefully inspected and kept separate at harvest to maintain prime seed. Starting with Foundation seed the program will follow the Crop Improvement method of the state that the seed is being produced in.
- Classes of seed to be recognized are "Breeders" as designated by the breeder and their representative in North America (ProGene Plant Research L.L.C.), Foundation, Registered and Certified as designated by the Crop Improvement Association for the state where the seed was produced.
- 114 oats are P.V.P. applied for as of this date. The application is NOT as title V.