PROGENE | PLANT RESEARCH

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To: Washington State Crop Improvement Association

From: Kurt Braunwart June 24, 2009

Statement of origin and information of value to field inspectors for 223,19 Oat:

223,19 Oat was bred by Keith Armstrong of Plant and Food Research, Christchurch, New Zealand.

Areas of probably adaptability: Where ever spring oats are grown in the US with high moisture inputs or irrigation .

Information of value to field inspectors:

- 223,19 oat has a traditional type panicle. However, this panicle is set down in the leaf canopy more than Monida or other traditional oats. The result is that the upright leaves of 223,19 show with the seed head when fully headed out.
- Seed husk in the panicle has a striped light green color when it starts to enter the soft dough stage.
- Plant growth characteristics are uniquely different than any other commercial oat that we are aware of. Leaves have an erect growth habit giving the appearance of the leaf spikes of a pineapple. Plants are shorter than most varieties and get a denser leaf growth. Average plant height when fully headed out is about 12 inches or 24% shorter than Monida oat.
- 223,19 oat will average 3 days later to head out and to reach the soft dough stage of maturity than Monida oat.

Information of value to seed analysts:

- Seed of 223,19 oat are off white in color.
- Seed of 223,19 oat have traditional oat shape.

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

- ProGene Plant Research L.L.C. has received from Plant & Food Research pre-Breeders seed. ProGene has increased and will maintain Breeders 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.