

green, erect juvenile growth habit, and green foliage without waxy bloom. Heads mid-dense, erect, and awned. Heading date similar to Centennial. At maturity, chaff white and soft white seed. Resistance to Russian wheat aphid (*Diuraphis noxia*). Similar to Centennial for yield and test weight. Resistance to stripe rust (*Puccinia striiformis*). Milling and baking qualities similar to Centennial.

The following were developed by Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States. Received 04/02/1996.

PI 592986. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. IDO488; NSGC 6129. Pedigree - PI 294994/4*Centennial.

The following were developed by Suzi Halbert, University of Idaho, University Research & Education Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; C.M. Smith, University of Idaho, Dept of Plant, Soil & Entomological Sci., Moscow, Idaho 83843, United States; Robert S. Zemetra, University of Idaho, Department of Plant, Soil and Entomology, Moscow, Idaho 83843, United States; J.M. Windes, Idaho Agr. Exp. Sta., Univ. of Idaho, Plant, Soils, and Entomological Sci., Aberdeen Research and Extension Ctr., Aberdeen, Idaho 83210, United States; S.S. Quisenberry, University of Nebraska, Dept. of Entomol., Lincoln, Nebraska 68583-0816, United States; D.J. Shotzko, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States; P.F. Lamb, University of Idaho, Dept. of Plant, Soils, Entomol. Sci., Moscow, Idaho 83844, United States. Received 04/02/1996.

PI 592987. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. IDO472; Idaho 472; NSGC 6130. GP-520. Pedigree - PI 137739/3*Penawawa. Similar to Penawawa in appearance. Coleoptile green, erect juvenile growth habit, and green foliage with absent waxy bloom. Heads mid-dense, erect, and awned. Flowers approx. 2 d later than Penawawa and 5cm taller than Penawawa. Chaff white at maturity. Seed soft white and elliptical in shape with angular cheeks. Seed crease mid-wide but deeper than Penawawa. Resistance to Russian wheat aphid (*Diuraphis noxia*). Significantly reduced *D. noxia* induced leaf rolling and leaf folding than Penawawa. Grain yield similar to Penawawa. Grain volume weight significantly lower than Penawawa. Resistance to stripe rust (*Puccinia striiformis*) similar to Penawawa. Milling and baking qualities similar to Penawawa.

The following were developed by Richard Pickering, Crop & Food Research, Private Bag 4704, Christchurch, New Zealand. Received 04/02/1996.

PI 592988. *Hordeum vulgare* L. ssp. *vulgare*

Breeding. 53A8; NSGC 6131. Pedigree - Doubled haploid derived from a heterozygous recombinant, 30X2, selection from the cross Golden Promise//Golden Promise/*Hordeum bulbosum* Ch2920/4/Colch. Homozygous doubled haploid barley. Carries a pubescent leaf sheath, derived from *H. bulbosum*. Shows some characteristics of a winter type barley under long