

Sciences, Bozeman, Montana 59717, United States. Received 12/15/1994.

PI 584526. *Triticum aestivum* L., nom. cons.

Cultivar. Pureline. "JUDITH"; MT8039. CV-810. Pedigree - Lancota/Froid//NE69559/Winoka. Hard red winter with high yield potential combined with acceptable winterhardiness, early-medium maturity, and exceptional baking qualities. White-glumed with intermediate height, stiff straw, and good lodging and shatter resistance. First HRW adapted to Montana that combines acceptable winterhardiness with a low vernalization requirement. Resistant to prevalent races of *Puccinia graminis*. Susceptible to *P. recondita*, *P. striiformis*, wheat streak mosaic virus, *Cochliobolus sativus*, *Tilletia controversa*, *Cephalosporium gramineum*, *Diuraphis noxia*, and *Cephus cinctus*.

The following were developed by J.H. Orf, Minnesota Agr. Exp. Sta., Univ. of Minnesota, Dept. of Agronomy & Plant Genetics, St. Paul, Minnesota 55108, United States; D.H. MacDonald, University of Minnesota, Dept. of Plant Pathology, St. Paul, Minnesota 55108, United States; M.K. Wallace, University of Minnesota, Department of Plant Pathology, St. Paul, Minnesota 55108, United States. Received 12/19/1994.

PI 584527. *Glycine max* (L.) Merr.

Cultivar. Pureline. "M87-1569". GP-175. Pedigree - M70-187 x L77-808. Group O maturity (relative maturity 0.9). Indeterminate averaging 81cm tall. Flowers purple. Pubescence tawny. Pods tan at maturity. Seeds yellow with black hila and dull seed coat luster. Seeds average 139mg with 40.5% protein and 17.7% oil. Lodging score of 1.5 on scale of 1 to 5. Intermediate iron chlorosis score. Resistant to races 1 and 3 of soybean cyst nematode (*Heterodera glycines*) and carries the *Rps1* gene for resistance to phytophthora (*Phytophthora sojae*).

The following were developed by W. A. Russell, Iowa State University, Iowa Agric. and Home Econ. Exp. Station, Department of Agronomy, Ames, Iowa 50011, United States; Arnel Hallauer, Iowa State University, Department of Agronomy, Ames, Iowa 50011, United States; K.R. Lamkey, USDA, ARS, Field Crops Res. Unit, Ames, Iowa 50011, United States; P.R. White, Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States. Received 12/19/1994.

PI 584528. *Zea mays* L. ssp. *mays*

Cultivar. "B99". PL-174. Pedigree - Iowa Corn Borer Synthetic No. 1 [BSCB1(R)C10-7233]. Developed from a population of Iowa Corn Borer Synthetic No. 1 (BSCB1) after ten cycles of reciprocal recurrent selections [BSCB1(R)C10-7233]. Similar to B73 for date of flower and plant and ear height. Above average resistance to first-generation European corn borer (*Ostrinia nubilalis*). Ears have 12 to 14 rows of yellow semi-dent kernels on red cobs. Pollen production good and silk emergence coincident with pollen shed. Maturity classification is AES700.

PI 584529. *Zea mays* L. ssp. *mays*

Cultivar. "B100". PL-175. Pedigree - (B85 x H99)H99-361. Flowering time similar to A632. Plant and ear heights 20-30cm less than A632. Ears 14 rows, yellow, semi-flint kernels on white cobs. Good plant health, clean appearance, and easy to maintain.

The following were developed by John R. Gannaway, Texas Agr. Exp. Sta., Route 3, Box 219, Lubbock, Texas 79401, United States; D.F. Owen, Texas Agr. Exp. Sta., HCR 1, Box 117, Plainview, Texas 79072-9362, United States. Received 12/19/1994.

PI 584530. *Gossypium hirsutum* L.