

'Monida' type with better lodging resistance, good yield and test weight.

PI 586953. *Avena sativa* L.

Breeding. 90Ab163; NSGC 5596. Pedigree - Cayuse/82Ab1142. Excellent yield performance under irrigation at Aberdeen, Idaho (305.6 bu/A in 1993), with reduced height and good lodging resistance.

The following were developed by Joe Martin, Kansas State University, Agric. Experiment Station, Hays, Kansas 67601, United States. Received 03/08/1995.

PI 586954. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. KS94WGRC29; KS94HW319. Pedigree - PI 220127/P5//TAM200/KS87H66. Hard white winter wheat resistant to Russian wheat aphid (*Diuraphis noxia*). Awne, white glumed, semidwarf. Head about 1 day earlier and has coleoptile length 18mm longer than Rio Blanco. Mixing strength about 1 minute longer than Larned. Resistant to leaf rust (*Puccinia recondita*) and stem rust (*P. graminis*). Susceptible to Hessian fly (*Mayetiola destructor*) and wheat streak mosaic virus.

PI 586955. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. KS94WGRC30; KS94H830. Pedigree - PI 200127/P5//TAM 200/KS87H66. Hard red winter resistant to Russian wheat aphid (*Diuraphis noxia*). Awne, white glumed, semidwarf. Heads about 5 days later and has coleoptile length 5mm shorter than TAM 107. Mixing strength equal to Karl. Resistant to leaf rust (*Puccinia recondita*), stem rust (*P. graminis*), and is heterogeneous for the H3 gene for Hessian fly (*Mayetiola destructor*) resistance. Susceptible to wheat streak mosaic virus.

PI 586956. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. KS94WGRC31; KS94H891. Pedigree - PI 220127/P5//TAM 200/KS87H66/3/KS87H325. Hard red winter resistant to Russian wheat aphid (*Diuraphis noxia*). Awne, white glumed, semidwarf. Heads about 5 days later and has coleoptile length equal to TAM 107. Mixing strength about 1 minute less than Karl. Resistant to leaf rust (*Puccinia recondita*), stem rust (*P. graminis*), and Hessian fly (*Mayetiola destructor*). Moderately susceptible to wheat streak mosaic virus.

The following were developed by T.W. Cox, USDA-ARS, Kansas State University, Dept. of Agronomy, Manhattan, Kansas 66506, United States. Received 03/14/1995.

PI 586957. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. KS94WGRC32. Pedigree - TAM 107*2/KS8010-1-4-1/TA 359. Seedlings resistant to culture PRTUS25 and other isolates of *Puccinia recondita*. Adult plants resistant under moderate to severe leaf rust epidemics at Manhattan and Hutchinson, Kansas in 1992, 1993, and 1994. The leaf rust-resistant donor parent, TA 359, is an accession of *T. boeoticum*, a wild, diploid wheat species. The infection type was mesothetic (23X) under heavy field infection in 1992-93, low (01C) under moderate field infection in 1994, and consistently low (01C) under seedling inoculation with PRTUS25. Resistance governed by a single, dominant gene that segregates independently of genes transferred previously.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 04/07/1995.

PI 586958. *Zea mays* L. ssp. *mays*