

PI 564811 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agric. Exp. Station, Columbia Basin AREC, Pendleton, Oregon United States. **origin institute id:** FW84526-F7005-M. **pedigree:** Warrior/2/Burt/PI 178383. **remarks:** Mid-tall, mid-late, winter. Spike awned, oblong, lax. Glumes bronze, glabrous, mid-long, mid-wide. Shoulder narrow, wanting. Beak narrow, acuminate. Kernel white to amber, mid-short, elliptical. Germ large. Crease wide, deep. Cheek angular. Brush large, long. Resistant to *Tilletia controversa* race 23 tested as R90-915, to endemic races near Flora, OR, and possibly to *Cephalosporium Stripe*. Winter Annual. Breeding Material. Seed.

PI 564812 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agric. Exp. Station, Columbia Basin AREC, Pendleton, Oregon United States. **origin institute id:** FW85155-T9027. **pedigree:** Pillan/red-selection//WA6912. **remarks:** Mid-tall, mid-late, winter. Spike awned, lax, fusiform. Glumes white, wide, short, glabrous. Shoulder mid-wide, rounded. Beak mid-wide, acuminate. Awns white. Kernel brown/red, hard, mid-short, elliptical. Germ small. Crease wide, mid-deep. Cheeks angular. Brush mid-size, mid-long. Very good cold hardiness. Promising bake and mill quality. Adapted dryland. Tolerance to BYDV, possibly to *Diuraphis noxia*. Resistant to endemic races of *Tilletia controversa* near Flora, OR. Winter Annual. Breeding Material. Seed.

PI 564813 **origin:** United States. **developed:** M.F. Kolding. **origin institute:** Oregon Agric. Exp. Station, Columbia Basin AREC, Pendleton, Oregon United States. **origin institute id:** FW85155-T9066. **pedigree:** Pillan/red-selection//WA6912. **remarks:** Mid-tall, mid-late, winter. Spike lax, fusiform, awned. Glume white, glabrous, mid-long, mid-wide. Shoulder narrow, rounded. Beak narrow, acuminate. Kernel brown/red, mid-long, elliptical. Germ mid-size. Crease mid-wide, mid-deep. Cheeks rounded. Brush mid-size, mid-long. Tolerance to BYDV, possibly to *Diuraphis noxia*. Good winter survival. Resistant to endemic races of *Tilletia controversa* near Flora, OR. Good baking quality. Winter Annual. Breeding Material. Seed.