

## New Varieties and Germplasms

The following is only a partial list of new wheat varieties and germplasms available in the region. Included are those for which we have current information.

### VARIETIES

South Dakota Agricultural Experiment Station announced the release of two hard red winter wheats in 1997: 'Tandem' (PI601817) and 'Crimson' (PI601818).

Tandem is an F<sub>2</sub> derived line from the cross 'Brule/Agate' and was tested in the NRPN from 1993 through 1995 as SD89119. Tandem is a standard height wheat with a long coleoptile and medium straw strength. It has excellent end-use quality characteristics with large kernels, high kernel weight, and high flour extraction. Baking tests indicate high water absorption with average mixing time and good tolerance ratings. Tandem is of medium maturity, 2 days earlier than Roughrider and similar to Arapahoe. It is moderately resistant to prevalent races of stem rust and susceptible to leaf rust, tan spot, septoria tritici, and WSMV. Tandem is heterogeneous for resistance to the Great Plains biotype of Hessian fly.

Crimson is an F<sub>5</sub> derived line from the cross 'TAM-105/Winoka' and was tested in the NRPN from 1994 through 1996 as SD89153. Crimson is a standard height wheat with a long coleoptile. It has exhibited very high and stable test weight characteristics over test locations. It has good end-use quality characteristics with average kernel weight and flour extraction. Baking tests indicate high water absorption with average mixing time and tolerance ratings. Crimson is of medium-late maturity, 1 day earlier than Roughrider and 1 day later than Arapahoe. Crimson is moderately resistant to prevalent races of stem rust and susceptible to leaf rust and Hessian fly. It is resistant to South Dakota isolates of septoria tritici. Greenhouse seedling tests suggest it has a moderate level of resistance to WSMV.

Agripro Seeds, Inc., recently announced the release of 'Hondo' hard red winter wheat. Hondo was derived from the cross 'W84-179/W81-171/3/Sturdy/Hawk//W81-133-3' and was tested in the 1997 WPRPN as W95-210. It is also entered in the 1998 SRPN. Hondo is resistant to WSBMV and WSSVM and has very good tolerance to WSMV. It has shown good resistance to prevalent races of leaf rust and good tolerance to tan spot and Septoria tritici. Hondo is a medium- height semidwarf of medium maturity with a medium-long coleoptile and good tolerance to acid soils. It has shown good field tolerance to head scab. Hondo is best adapted to production areas of Kansas, Nebraska, and north-east Colorado.

The Colorado Agricultural Experiment Station announced the release of two hard red winter wheats in 1997: 'Prowers' and 'Yumar'.

Prowers was derived from the cross 'CO850060/PI372129 //5\*Lamar' and was tested in the 1997 Western Plains Regional Performance Nursery as CO940750. It also was tested under the designation Lamar-R32. Prowers is a medium-tall wheat, similar to Lamar in all aspects except that it is resistant to the Russian wheat aphid. Prowers currently contains about 80% RWA-resistant plants. Further purification for RWA-resistance is underway.

Yumar was derived from the cross 'Yuma/PI372129,F1//CO850034/3/4\*Yuma' and was tested in the 1997 SRPN as CO940700. Is also was tested under the designation Yuma-R21. Yumar is a semidwarf wheat, similar to Yuma in all aspects except that it is resistant to the Russian wheat aphid and slightly taller. Yumar contains essentially 100% RWA resistant plants.