REGISTRATION OF CROP CULTIVARS

REGISTRATION OF 'COPPER' WHEAT

'COPPER' (Reg. no. 732) (PI 502644) hard red spring wheat (*Triticum aestivum* L.) was selected as an F₄ line from the cross 'Borah'/3/'Moran'/'Penjamo' sib/'Gabo 55', made in 1972. It was developed cooperatively by the Idaho Agricultural Experiment Station and USDA-ARS. Copper was tested in the Idaho yield nurseries as ID0238 for 10 yr (1976-1985), in the Tri-State Nursery in 1981, and in the Western Regional Spring Wheat Nursery for 3 yr (1982-1984). It was released jointly by the Idaho and Oregon Agricultural Experiment Stations and USDA-ARS in 1986. Copper is a semidwarf cultivar that has erect to inclined, oblong, mid-density, awned spikes. Glumes are brown, long, and wide, with midwide to wide, square shoulders. Beaks are midwide, acuminate, and 2 to 10 mm long. The kernels are hard, red, midlong, and ovate, with rounded cheeks and a middeep crease. Copper has average 1-d later than Borah and equal to ‘Pondera’ in maturity. It has had an average height of 81 cm, equal to Borah, and 5 cm shorter than Pondera. The straw strength of Copper is similar to that of Borah but weaker than that of Pondera.

Copper is resistant to Pacific Northwest races of stripe rust (caused by *Puccinia striiformis* West.), moderately resistant to leaf rust (caused by *P. recondita* Rob. ex Desm. f. sp. *tritici*), powdery mildew (caused by *Erysiphe graminis* DC. f. sp. *tritici* E. Marchal), and black chaff (caused by *Xanthomonas translucens* f. sp. *undulosa*).

The average yields of Copper, Pondera, and Borah during 6 yr of testing in two southern Idaho irrigated nurseries were 5924, 5623, and 4944 kg ha⁻¹, respectively. Grain weights of the respective cultivars were 773, 761.9, and 782.5 kg m⁻³.

The 3-yr average protein content of grain on a moisture basis obtained from Copper, Pondera, and Borah has been very satisfactory.

Breeder and foundation seed of Copper will be maintained by the University of Idaho, Aberdeen Research and Extension Center, P.O. Box AA, Aberdeen, ID 83210.

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References and Notes


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REGISTRATION OF 'BLANCA' WHEAT

'BLANCA' (Reg. no. 733) (PI 501533) soft white spring wheat (*Triticum aestivum* L.) was selected as an F₄ line from the cross of ID0045/5/2*A6514S-A-102-1/4/A6535S443-101/3/'Springfield'/PI 227196/A63166S-A-2-8 made at the University of Idaho Research and Extension Center at Aberdeen in 1972. ID0045 was a selection from the cross ‘Yaktana 54 A’/4//'Norin 10'/Brevor'/3/2//Yaqui 50'/4/Norin 10/Brevor'/Baart'/Onas'. A6514S-A-102-1 was from the cross ‘Yaktana 54 A’/4//'Norin 10'/Brevor'/Norin 10/Brevor//3/2//'Lee'/5/Lemhi 53'/3/'Lemhi 62'/4/5/Lemhi 53'/7/2//'Transfer'. A6535S-443-101 is a sister selection of 'Fielder' and 'Fieldwin', and A63166S-A-2-8 is a sister selection of 'Twin'. It was developed cooperatively by USDA-ARS and the Idaho Agricultural Experimental Station. Blanca was tested in the Idaho yield trials for 5 yr (1979-1983), in the Western Regional Spring Wheat Nursery in 1983, and in the San Luis Valley of Colorado for 3 yr (1983-1985). It was released

Blanca is susceptible to stripe rust (caused by *Puccinia striiformis* West.), moderately resistant to the prevalent Colorado races of leaf rust (caused by *P. recondita* Rob. ex Desm. f. sp. *E. Marchal*), and black chaff (caused by *Xanthomonas translucens* f. sp. *undulosa*). It has averaged 1 d later than Owens and 3 d earlier than Twin. Blanca has averaged 7 cm taller than Owens and Twin and has had significantly stiffer straw than either of the second ranked cultivar, Owens, but it was more resistant to lodging. In the 3-yr average of cultivars grown under irrigation in the San Luis Valley of Colorado, Blanca has produced a 10% higher grain yield than the second ranked cultivar, Owens, but it had significantly lower in grain volume weight. Blanca has excellent cookie-making quality and it has more tolerance to mixing than Owens and Twin. Flour extraction is satisfactory.

Breeder and Foundation seed classes of Blanca will be maintained by Colorado State University, Seal, for Wisconsin variety registration by writing to the Foundation Seed Project, Agronomy Department, Colorado State University, Fort Collins, CO 80523.