REGISTRATION OF CROP CULTIVARS

Owens was derived from the cross ID0045/6/2*A6514S-A-102-1/5/2*A6535S-443-101/3/A63166S-A-4-27-1-2/PI 227196/A63166S-A-2-8/4/’Gaines’/’Lemhi 53’ A6514S-A-102-1 is a selection from Yt 54A*4/’Norin 10’/’Brevor’/’Twin’. ID0045 and A63166S-443-101 are sister selections of ‘Fielder’ and ‘Fieldwin’ and A63166S-A-2-8 is a sister selection of Twin. The final cross was made in 1972 and Owens was obtained from a bulked F₄ head harvest in 1975. Owens, tested in Idaho trials for 5 years (1976 to 1980) and in the Western Regional Spring Wheat Nursery as ID0185 for 2 years (1979 to 1980), was released by USDA-ARS and the Idaho and Oregon Agricultural Experiment Stations in 1981.

Owens is similar to Twin and Fieldwin in maturity and has an average height of 84 cm; however, the height of individual plants of Owens have deviated from the average by as much as 5 cm. The straw strength of Owens is similar to Twin and ‘Dirkwin’ and slightly weaker than Fieldwin. Spikes of Owens are erect to inclined, awned, oblong, and middense. The glumes are white, midlong, and midwide with midwide square to elevated shoulders. Beaks are narrow, acuminate, and 2 to 6 mm long. The kernels are soft, white, midlong, and ovate with a midsized germ, rounded cheeks, and a narrow middeep crease.

Owens has been resistant to the prevalent races of stripe rust (caused by *Puccinia striiformis* West.) found in the Pacific Northwest, but was moderately susceptible to race CDL-17 found at Mt. Vernon, Wash. in 1979. It is moderately susceptible to Pacific Northwest races of powdery mildew (caused by *Erysiphe graminis* DC. f. sp. *tritici* E. Marchal) and leaf rust (caused by *Puccinia recondita* Rob. ex. Desm. f. sp. *tritici*). Black point (caused by *Alternaria* species) has caused somewhat more kernel discoloration in Owens than in the other recommended cultivars.

The yield of Owens averaged 282 kg/ha (5%) more than the other three recommended cultivars in 5 years of testing at two irrigated locations in southern Idaho. The test weight of Owens is similar to Fieldwin and 4 and 3 kg hL⁻¹ heavier than Twin and Dirkwin, respectively. The grain flour yield of Owens has been slightly lower than that of Fieldwin. Pastry quality has been satisfactory.

Breeder seed of Owens will be maintained by the Univ. of Idaho, Aberdeen Res. and Ext. Ctr., P.O. Box AA, Aberdeen, ID 83210.

D. W. SUNDERMAN AND BRENDAN O'CONNELL (1)

References and Notes


McKay was selected as an F₄ line from the cross ‘Norin 10’/’Brevor 4’/’Centane’/’Conley’/’Tobari 66’/’Tezanos Pintos Precoz’/’Ab. Sel. 1. B61-136 is a Montana selection derived from the cross ‘Moran’/’Brevor’/’Centane’. McKay was tested in Idaho trials for 6 years (1975 to 1980), was released jointly in 1981 by the Idaho, Oregon, and Western Regional Nursery for 2 years (1979 to 1980), was released jointly in 1981 by the Idaho, Oregon, and Western Regional Nursery for 2 years (1979 to 1980), was released jointly in 1981 by the Idaho and Oregon Agricultural Experiment Stations in 1981.

McKay is a white-glumed, awned, semi-waxy line with moderately stiff straw. It is intermediate in maturity and heads 2 days later than ‘Borah’. In irrigated trials, McKay has had an average height of 84 cm to 79 cm for Borah. Spikes of McKay are erect to inclined, oblong, and middense. The glumes are white, midlong, and midwide with midwide square to elevated shoulders. Beaks are narrow, acuminate, and 2 to 7 mm long. The kernels are soft, white, midlong, and ovate with a midsized germ, rounded cheeks, and a narrow middeep crease.

McKay has been moderately resistant to races of powdery mildew (caused by *Erysiphe graminis* DC. f. sp. *tritici* E. Marchal) and leaf rust (caused by *Puccinia recondita* Rob. ex. Desm. f. sp. *tritici*). Black point (caused by *Alternaria* species) has caused somewhat more kernel discoloration in Owens than in the other recommended cultivars.

The yield of Owens averaged 282 kg/ha (5%) more than the other three recommended cultivars in 5 years of testing at two irrigated locations in southern Idaho. The test weight of Owens is similar to Fieldwin and 4 and 3 kg hL⁻¹ heavier than Twin and Dirkwin, respectively. The grain flour yield of Owens has been slightly lower than that of Fieldwin. Pastry quality has been satisfactory.

Breeder seed of Owens will be maintained by the Univ. of Idaho, Aberdeen Res. and Ext. Ctr., P.O. Box AA, Aberdeen, ID 83210.

D. W. SUNDERMAN AND BRENDAN O'CONNELL (1)