References and Notes

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Registration of ‘Ernie’ Wheat

‘Ernie’ soft red winter wheat (Triticum aestivum L.) (Reg. no.
CV-811, PI 584525) was developed by the Missouri Agricultural
Experiment Station and released in 1994. Ernie originated from
the cross ‘Pike’/MO9965 made in 1980. MO9965 is from the cross
‘Stoddard’/‘Blueboy’//Stoddard/D1707. D1707 is a two-gene
semidwarf line from India derived from CIMMYT germplasm.
Ernie was selected in 1988 as an F6-derived F7 line. The name
Ernie was chosen to recognize the contributions of Ernest R. Sears
to wheat research.

Ernie is a white-chaffed, apically awnletted soft red winter
wheat with midlong tapering spikes. The coleoptiles are white
and the anthers are yellow. Glumes are white, long and narrow. Kernels
of Ernie are red, soft, large, midlong, and ovate with a shallow crease,
rounded cheeks and a small to midsized brush. Ernie has very good to excellent threshability but does not shatter as much as some
other early maturing soft red winter wheats.

Ernie was tested as MO12256 in Missouri breeding trials from
1989 to 1993. It has been evaluated in Missouri Winter Wheat
Registration of ‘AC Michael’)

‘AC Michael’ hard red spring wheat (Triticum aestivum L.) (Reg. no.
CV-809, PI 583978) was developed by Agriculture and Agri-
Food Canada, Lacombe Research Centre, Lacombe, AB, in 1993. It was derived from the ‘Park’/‘Neepawa’ cross made at the University of Alberta, Edmon-
ton, AB, in 1982. Park is an early-maturing hard red spring (HRS)
cultivar developed by Agriculture and Agri-Food Canada, Winnipeg Research Centre and selected for maturity, lodging resistance, and
winterhardiness. Neepawa is a moderate-maturity hard red spring (HRS)
cultivar developed by Agriculture and Agri-Food Canada, Winnipeg Research Centre, Winnipeg, MB, and released in 1963 (1). Neepawa
was crossed with ‘Bandit’ to increase its tolerance to powdery mildew,
and with ‘Winnipeg’ to increase its resistance to leaf rust and
smut (Pseudocercosporella herpotrichoides). ‘AC Michael’ has
mildew resistance equivalent to ‘Clark’, and is 3, 4, and 5 d earlier
than ‘Pioneer 2548’, Wakefield, and Cardinal, respectively.

Winterhardiness is similar to Cardinal and Wakefield and more
than Pioneer 2548. The lodging resistance of ‘AC Michael’ is
equivalent to ‘Caldwell’; it may lodge under high-N conditions.
In the Cooperative Bread Wheat Test, where it performed better than the
cocheck cultivars. The performance of ‘AC Michael’ was similar to that of
Pioneer 2548, Wakefield, and Cardinal, respectively. Authorized seed classes will be Breeder and Foundation. Application for U.S. plant variety protection will be
made under the Title V option. Breeder and foundation seed will
be maintained by the Missouri Agricultural Experiment Station,
Columbia, MO.

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References and Notes

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