Registration of 'Fleming' Wheat

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References and Notes


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‘Fleming’ soft red winter wheat (Triticum aestivum L.) (Reg. no. CV-878, PI 599615) was cooperatively developed and released by the Georgia and Florida Agricultural Experiment Stations in 1997. Fleming has a combination of high yield, high test weight and early maturity. Fleming was named to honor Dr. A.A. Fleming, the former corn breeder at the University of Georgia.

Fleming was derived from the cross GA821264-2*/3*/ GA79102 made in 1990. GA821264-2 is a Georgia breeding line selected from the cross, ‘McNair 3271’/Florida 301’/‘McNair 1003’/Coker 916 (1, 2). GA79102 is a Georgia breeding line from the cross ‘Blueboy’/Amigo’ (3). Amigo was released to provide greenbug (Schizaphis graminum Rondani) resistance from the translocation (1AL.1RS) and reported later to possess resistance to powdery mildew (Pm17) (caused by Erysiphe graminis DC. f. sp. tritici Em. Marchal) and leaf rust (Lr24) (caused by Puccinia recondita Roberge ex Desmaz.) (4). Fleming was developed using a backcross method of breeding. The BC1F1 and BC2F2 were grown in the greenhouse during the spring and summer of 1990, respectively. Progeny from plants resistant to powdery mildew were advanced to the BC3F2 and BC4F3 in the greenhouse from 1990 to 1991. The BC4F14 seed from a single plant was increased at the USDA-ARS National Small Grains Germplasm Research Facility in Aberdeen, ID during the summer of 1991. Fleming was evaluated for agronomic performance as GA 90078 in nursery plots in 1992, GA-FL state trials at six locations from 1993 to 1997, and in the Uniform Southern Soft Red Winter Wheat Nursery (USSRWWN) at 24 locations in 1996 and 25 locations 1997.

In Georgia, Fleming is early maturing (92 d to heading), short (88 cm), white-chaffed, awned, and characterized by good straw strength with high yield potential. During 4 yr (3 locations yr-1) in Georgia, Fleming, ‘Morey’, ‘Andy’, and ‘GA-Stuckey’ yielded an average of 3551, 3495, 3493 and 3366 kg ha-1, respectively (5). In comparison to Morey, Fleming is...

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Registration of ‘Coda’ Club Wheat

‘Coda’ (Reg. no. CV-874, PI 594372) is a soft white winter wheat (Triticum aestivum L.) accession received from USDA-ARS, Pullman, WA in cooperation with the Oregon Agricultural Research Center, Pullman, WA, and the Idaho Agricultural Experiment Station, Moscow, ID. Fleming will be maintained by the Georgia Agricultural Experiment Station, Griffin, GA 30223-1797. A small sample of seed for research purposes can be obtained from the corresponding author for at least five years.


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