Breeder seed of BacUp will be maintained by the Minnesota Agric. Exp. Stn. Foundation seed will be produced and maintained by the Minnesota Crop Improvement Association. Small quantities of seed for research purposes may be obtained from the corresponding author.


References and Notes

2. R. Busch and D. McVey, USDA-ARS and Dep. of Agronomy & Plant Genetics, and G. Linkert, R. Wilcoxson (retired), and R. Dill-Macky, Dep. of Agronomy & Plant Genetics, Univ. of Minnesota, St. Paul, MN 55108; J. Wiersma, Univ. of Minnesota, Crookston, MN 56716; D. Wares, Univ. of Minnesota, Morris MN 56270; G. Hareland, USDA-ARS, Fargo, ND 58105; I. Edwards, Pioneer Hi-Bred International, Johnston, IA 50131; H. Schmidt, Pioneer Hi-Bred International, Moorhead, MN 56560. Cooperative investigations of the Minnesota Agric. Exp. Stn. and USDA-ARS, and supported in part by a grant from the Minnesota Wheat Research and Promotion Council. Published as Journal Series no. 971130003 of the Minn. Agric. Exp. Stn. Registration by CSSA. Accepted 30 June 1997. *Corresponding author (busch005@maroon.tc.umn.edu).


Registration of 'NYBatavia' Wheat

'NYBatavia' soft white winter wheat (Triticum aestivum L.) (Reg. no. CV-852, PI 595085) was developed and released in 1991 by the Cornell Agricultural Experiment Station for production in the northeastern United States. It was developed using the bulk method of breeding with mass selection in the F3 and F4 generations for short stature and plump kernels. NYBatavia was selected from an F3 bulk population derived from the cross NY6298-14/'Frederick' made in 1973 and designated NY73116-4. A reselection for white chaff color in the F7 generation was designated as NY73116-4W. NY6298-14 was a selection from the three-way cross NY5670aB-3B-12//NY5207aB-2B-85/NY5513aB-4B-20 made at the Cornell Agricultural Experiment Station in 1962. NY5670aB-3B-12 was selected from 'Domiano'/Genesee'; NY5207aB-2B-85 was selected from 'Burt' 2x/Genesee/Citr 12658; and NY5513aB-4B-20 was selected from Genesee/4/'Kenya338AC2.2E2'/3/Burt/'Vogel 53' (Burt sib)/Genesee.

NYBatavia was tested in state and regional trials as NY73116-4W. It has been tested in New York since 1989 and first entered the Uniform Eastern Soft White Winter Wheat Nursery in 1991. In 8 yr of regional testing in New York State, the grain yield of NYBatavia has been similar to the mean of the current cultivars, Harus and Geneva. Winterhardiness is similar to these cultivars under New York State growing conditions. Grain volume weight averages 73 kg hL-1, 1 to 2 kg hL-1 below the mean of Harus and Geneva. Plant height is similar to Geneva and Harus and waxy bloom. Spikes are middense, fusiform, and average 8 to 9 cm in length. Glumes are white, long, and have an oblique shoulder and an acute beak. The soft white kernels are ovate, have rounded cheeks and a medium brush, and a narrow, middeep crease. Seeds average 6.8 mm in length and width and the mass of 1000 kernels averages 36 g.

NYBatavia is moderately resistant to prevalent races of loose smut [caused by Ustilago tritici (Pers.) Rostr.], leaf rust (caused by Puccinia recondita Roberge ex. Desmaz.), and powdery mildew (caused by Erysiphe graminis DC. f. sp. tritici Em. Marchal). NYBatavia is susceptible to stem rust (caused by Puccinia graminis Pers.:Pers.), and partially resistant to wheat spindle mosaic virus (WSSMV).

The generation sequence of seed production was breeder, foundation, and certified. Cultivar protection has been approved under the U.S. Plant Variety Protection Act (PVPA 9500249). NYBatavia was approved for release in 1995. Breeder seed was planted for increase that year. Certified seed was made available to farmers in the fall of 1995. Breeder seed will be maintained by the New York Seed Improvement Cooperative, 249 Emerson Hall, Cornell University, Ithaca, NY 14853.

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References and Notes

1. M.E. Sorrells, Dep. of Plant Breeding and Biometry, 249 Emerson Hall, Cornell Univ., Ithaca, NY 14853; G.C. Bergstrom, Department of Plant Science, 334 Plant Science Bldg., Cornell Univ., Ithaca, NY. Registration from the Cornell Agric. Exp. Stn., Ithaca, as Paper 97-7070. Certified seed supported by Hatch 149419 and 149418. Registration by CSSA. Accepted 30 June 1997. *Corresponding author (mesk@cornell.edu).

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Registration of 'Cayuga' Wheat

'Cayuga' soft white winter wheat (Triticum aestivum L.) (Reg. no. CV-853, PI 595848) was developed and released in 1993 by the Cornell Agricultural Experiment Station for production in the northeastern United States. It was developed using a combination of breeding methods with mass selection in F3 and F4 generations for preharvest sprouting resistance. Cayuga was made available to farmers in the fall of 1995. Breeder and foundation seed will be maintained by the New York Seed Improvement Cooperative, 249 Emerson Hall, Cornell University, Ithaca, NY 14853.

NY262-37-10 is the BC1S4 bulk population derived from the cross 'Geneva'/Cream//Genesee made in 1985 and designated NY262-37-422. In 7 yr of regional testing in New York from 1990 to 1994, and NY262-37-422 was tested in New York from 1990 to 1994. Cayuga first entered the Uniform Eastern Soft White Winter Wheat Nursery in 1992. In 7 yr of testing in New York State, grain yield of Cayuga was...