The milling and baking characteristics of TAM 301 indicate that it has good, hard red winter wheat quality, similar to ‘TAM W-101’. The flour protein of TAM 301 has been about 0.5% higher than TAM 107, TAM 200, and TAM 202. The kernel weight of TAM 301 has averaged 35.4 mg, compared with TAM W-101 at 37.7 mg and TAM 107 at 31.8 mg. Kernel hardness value of TAM 301 has averaged 79, TAM W-101 at 80, TAM 107 at 82, and TAM 200 at 68. The bread-making characteristics of TAM 301 are good, having a satisfactory crumb grain and loaf volume, similar to TAM W-101.

U.S. plant variety protection for TAM 301 is pending (PVP Certificate no. 9700242). The Foundation Seed Service of TAES will produce the foundation, registered, and certified seed classes of TAM 301. Seed of TAM 301 can be sold by cultivar name only as a class of certified seed. Small quantities of seed for research purposes may be obtained from the corresponding author. Recipients of seed are asked to make appropriate recognition of the source if TAM 301 is used in the development of a new cultivar, germplasm, parental line, or genetic stock.

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Registration of ‘Patterson’ Wheat

‘Patterson’ soft red winter wheat (Triticum aestivum L.) (Reg. no. CV-856, PI 583825) was developed by the Purdue University Agricultural Research Programs in cooperation with the USDA-ARS. It was released in 1995 because of its unique combination of high productivity, cold tolerance, early maturity, excellent milling and baking qualities, and resistance to several important fungal and virus pathogens in Indiana and the eastern USA.

Patterson was selected from a cross of P69184B8-21-1-1-2-4*2/‘Caldwell’ and was tested as P80311A1-20-3-31. Parentage of the inbred parent line P69184B8-21-1-1-2-4 (P69184) is ‘Knox 62’/'Cklr13110/‘Knox’/3/Norin 10/‘Knox/Cklr13110/13/‘Siete Cerros’/11/‘Arthur’/10/Norin 33/5/‘Fairfield’/4/Pl 94587/Clgr 11512/Clgr 4830/3/‘Knox’/11512/‘Fairfield’/4/Pl 94587/Clgr 4830/3/‘Knox’ (2).

The flag leaf is erect, not twisted, and has a waxy bloom; hairs are absent. Auricles do not have anthocyanin, and hairs are absent. Spikes are lax, tapering, apically awned, and yellow at maturity. Glumes at maturity are medium in length and width; the brush is medium long and not collared. The coleoptile is white, and seedling anthocyanin is absent. Juvenile plant growth is semierect. Patterson may contain up to 0.3% variants that have awned and/or brown glumes. Patterson is protected under the U.S. Plant Variety Protection Act, Public Law 91-577 as amended (PVP Certificate no. 95-00281). Breeder seed is maintained by the Purdue University Agricultural Research Programs, West Lafayette, IN 47907. Limited quantities of seed for research are available upon request from the corresponding author. Recipients of seed are asked to make appropriate recognition of the source if Patterson is used in the development of a new cultivar, germplasm, parental line, or genetic stock.

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References and Notes