Registration of 'Hatton' Pinto Bean

'Hatton' pinto bean (*Phaseolus vulgaris* L.) (Reg. no. CV-133, PI 592839) was developed by the North Dakota Agric. Exp. Stn. and released in 1995. Hatton, tested as 88-025-02, was derived from the cross PX-057/87-071-01. PX-057 is an F₄ line from the cross 83-003A/4-842/83B229/3/5-383/83-003.83-003A was an F₄ selection (black-seeded, upright Type II architecture) from the cross 'Fiesta'/ 'Black Magic'; 83-003 was an F₄ line from the same cross selected for pinto seed type. 83B229 is a germplasm line released by the University of Idaho (1). Lines 4-842 and 5-383 are rust-resistant materials developed cooperatively by the USDA-ARS at Beltsville, MD, and North Dakota State University. Breeding line 87-071-01 was obtained from the cross T295/'Topaz'. T295 is an erect, late-maturing pinto bean breeding line developed at Michigan State University. Line 88-025-02 was selected in 1989 from the F₂ at Hatton, ND, with the F₃ and F₄ grown in off-season nurseries in Puerto Rico in 1989–1990. Seventy-five F₅₉ lines from single-plant selections were grown in Puerto Rico in 1992, with final evaluations conducted in 1993 at Hatton, ND. Seed from 35 of these lines were selected for similar phenotype and bulked.

Hatton was tested for 5 yr (1990–1994) in 31 environments in North Dakota and in other bean growing regions of the USA as an entry in the Midwest Regional Performance Nursery (2). In those tests, seed yield of Hatton was 4% higher than the popular commercial pinto cultivar Othello. When evaluated in 19 North Dakota environments with commercial pinto cultivars of similar maturity, seed yield of Hatton was similar to that of Topaz, but exceeded yields of Othello by 8% and Fiesta by 14%.

In North Dakota, Hatton is classified as medium-early maturity. It has the same maturity as Othello (94 d), is 2 d later than Topaz, and 3 d later than Fiesta. Hatton was tested for 5 yr (1990–1994) in 31 environments in North Dakota and in other bean growing regions of the USA as an entry in the Midwest Regional Performance Nursery (2). In those tests, seed yield of Hatton was 4% higher than the popular commercial pinto cultivar Othello. When evaluated in 19 North Dakota environments with commercial pinto cultivars of similar maturity, seed yield of Hatton was similar to that of Topaz, but exceeded yields of Othello by 8% and Fiesta by 14%.

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