REGISTRATION OF 'HP202' SOYBEAN

'HP202' SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 258, PI 539863) was developed cooperatively by the Iowa Agriculture and Home Economics Experiment Station and the Puerto Rico Agricultural Experiment Station. It was released in 1988 as a special-purpose cultivar for use in the production of tofu and other food products. HP202 was derived from a BC,F, plant selected from the cross ('Vinton 81' × 'B216') × Vinton 81. Vinton 81 (2) is a high-protein cultivar of Maturity Group I. B216 is a high-yielding cultivar of Maturity Group II developed by the Northrup King Co. from the cross 'Corsoy' (3) × 'Wayne' (1). The backcross population was advanced to the BC,F, generation at Ames, IA, and Isabela, PR, by harvesting in bulk three seeds from each plant and planting a random sample of the seed to obtain the next generation. HP202 was tested in Iowa during 1983 to 1987 under the designation A85-182013.

HP202 is of Maturity Group I, averaging 1 d earlier than Vinton 81. It has purple flowers, gray pubescence, tan pods at maturity, and dull yellow seeds with yellow hila. HP202 has an average of 420 g kg⁻¹ seed protein and 210 g kg⁻¹ seed oil on a moisture-free basis and a seed weight of 200 mg seed⁻¹. Compared with Vinton 81, HP202 has 13% higher seed yield and similar plant height and lodging resistance. HP202 is moderately susceptible to Fe-deficiency chlorosis when grown on calcareous soil. It is susceptible to phytophthora rot (caused by Phytophthora megasperma Drechs. f. sp. glycinea T. Kuan & D.C. Erwin).

Breeder seed of HP202 will be maintained by the Iowa Agriculture and Home Economics Experiment Station, Ames.

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References and Notes


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