REGISTRATION OF 'HP201' SOYBEAN

'HP201' soybean [Glycine max (L.) Merr.] (Reg. no. 257, PI 539862) 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.

HP201 was derived from an F2 plant selected from the cross 'Vinton 81' × 'Hardin'. Vinton 81 (2) is a high-protein cultivar of Maturity Group I, and Hardin (1) is a high-yielding cultivar of Maturity Group I. The single-cross population was advanced to the F2 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. HP201 was tested in Iowa during 1983 to 1987 under the designation A85-182007.

HP201 is of Maturity Group I, averaging 3 d earlier than Vinton 81. It has purple flowers, gray pubescence, brown pods at maturity, and dull yellow seeds with yellow hilum. HP201 has an average of 410 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, HP201 has 15% higher seed yield and similar plant height and lodging resistance. HP201 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 HP201 will be maintained by the Iowa Agriculture and Home Economics Experiment Station, Ames.

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References and Notes
