REGISTRATION OF ‘HP204’ SOYBEAN

‘HP204’ SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 260, PI 539865) 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 vegetable soyan or the Japanese fermented product, miso.

HP204 was derived from a BC1F3 plant selected from the cross (’Vinton 81’ × ‘Hardin’) × Vinton 81. 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 backcross population was advanced to the BC1F3 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. HP204 was tested in Iowa during 1983 to 1987 under the designation A85-182004.

HP204 is of Maturity Group I, averaging 2 d later than Vinton 81 (1). It has purple flowers, gray pubescence, tan pods at maturity, and dull yellow seeds with yellow hila. HP204 has an average seed size of 230 mg seed-1, seed protein of 407 g kg-1, and seed oil of 214 g kg-1 on a moisture-free basis. It is similar to LS301 in plant height, lodging resistance, and seed yield. HP204 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 HP204 will be maintained by the Iowa Agriculture and Home Economics Experiment Station, Ames.

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References and Notes
