REGISTRATION OF ‘SS202’ SOYBEAN

‘SS202’ SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 256, PI 539861) was developed cooperatively by the Iowa Agriculture and Home Economics Experiment Station and the Puerto Rico Agricultural Experiment Station. It was released in 1989 as a special-purpose cultivar for use in the production of soy sprouts and the Japanese fermented product natto.

SS202 was derived from a BC$_2$F$_2$ plant selected from the cross ‘HP 20-20’$^3$ × PI 135624. HP 20-20 is a high-yielding cultivar of Maturity Group II developed by Agripro BioSciences, Inc., from the cross ‘Rampage’ (4) × ‘Hark’ (3). PI 135624 is a Maturity Group II accession of the wild species Glycine soja Sieb. & Zucc., with a seed size of ≈ 14 mg seed$^{-1}$. The F$_2$ plants from the single-cross population were selected for small seed size and yellow seed coat color. BC$_3$F$_2$ seeds were obtained by crossing the F$_3$ progeny of selected F$_2$ plants to HP 20-20. Similar selection was practiced among BC$_2$F$_2$ plants to obtain BC$_3$F$_3$ progeny which were crossed to HP 20-20 to obtain BC$_3$F$_3$ seeds. The progeny of BC$_3$F$_2$ plants with small yellow seeds were evaluated for yield in Iowa during 1987 and 1988. SS202 was tested under the designation A87-102105.

SS202 is of Maturity Group II, averaging 2 d earlier than ‘Elgin 87’ (2). It has purple flowers, gray pubescence, tan pods at maturity, and dull yellow seeds with yellow hila. SS202 is similar to ‘Corsoy 79’ (1) in lodging susceptibility and is moderately susceptible to pod shatter. It has a plant height of 91 cm, an average seed size of 90 mg seed$^{-1}$, 400 g kg$^{-1}$ seed protein, and 217 g kg$^{-1}$ seed oil on a moisture-free basis, and a seed yield of ≈ 3078 kg ha$^{-1}$. SS202 is 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 SS202 will be maintained by the Iowa Agriculture and Home Economics Experiment Station, Ames.

W. R. FEHR,* S. R. CIANZIO, and G. A. WELKE (5)

References and Notes
4. W.R. Fehr, G.A. Welke, and A.R. LeRoy III, Dep. of Agronomy, Iowa State Univ., Ames, IA 50011; and S.R. Cianzio, Dep. of Agronomy, Univ. of Arkansas, Fayetteville, AR 72701; the Puerto Rico Agric. Exp. Stn., Mayaguez, PR 00708. Joint contribution from the Iowa Agriculture and Home Economics Experiment Station, Iowa State Univ., Ames, IA, and the Puerto Rico Agricultural Experiment Station, Mayaguez, PR 00708. Published with the approval of the Director of Iowa Agriculture and Home Economics Experiment Station, Iowa State Univ., Ames, IA. Supported by a grant from the Iowa Soybean Promotion Board.