Registration of 'Haskell' Soybean

'Haskell' soybean [Glycine max (L.) Merr.] (Reg. no. CV-318, PI 572238) was developed by the Georgia Agricultural Experiment Stations and released in May of 1993 because of its disease and nematode resistances and high productivity. It was tested under the experimental designation G84-3185.

'Haskell' soybean was derived from an F3 plant from the cross 'Johnston'/Braxton' (1,2). The generations were advanced by the single-pod bulk method to the F5 generation in Georgia and Puerto Rico. The line was tested in Georgia for disease resistance, agronomic performance, and seed yield from 1985 to 1992 (4,5). It was evaluated in the Uniform Soybean Tests, Southern Region (Uniform Group VII) from 1988 to 1992 (3). It is adapted to the southeastern USA, where Maturity Group VII soybean cultivars are commonly grown.

'Haskell' has a determinate growth habit, purple flowers, tawny pubescence, and tan pod walls. Seeds are yellow with shiny seed coats and black hila. Haskell is of Maturity Group VII and matures 1 d later than 'Stonewall' and 2 d earlier than 'Hagood' (6,7). It is similar in plant height to Stonewall and plant lodging to Hagood. Seed quality and seed size of Haskell are similar to Stonewall. Seed of Haskell averages 20 g kg⁻¹ more oil and 180 g kg⁻¹ less protein than Stonewall. Haskell averaged 6 and 8% higher in seed yield across 77 southeastern U.S. environments than Stonewall and Hagood, respectively (3,4,5).

'Haskell' is resistant to the southern biotype of stem canker [caused by Diaporthe phaseolorum (Cooke & Ellis) Sacc. var. caulivora K.L. Athow & R.M. Caldwell] and bacterial pustule [caused by Xanthomonas campestris pv. glycines (Nakano) Dye] (3). It has resistance to the southern [Meloidogyne incognita (Kofoid & White) Chitwood], peanut [M. arenaria (Neal) Chitwood], and javanese [M. javanica (Treub) Chitwood] root-knot nematodes (3,5). It is moderately resistant to the prevalent races of frogeye leaf spot (caused by Cercospora sojina K. Harra) and is susceptible to soybean cyst nematode (Heterodera glycines Ichinohe) (3,5).

Breeder seed of Haskell was provided to the Georgia Seed Development Commission in 1992. The Georgia Agricultural Experiment Stations will be responsible for the maintenance of breeder seed. The Georgia Seed Development Commission has licensed the marketing rights of Haskell to Southern Elite Genetics Association, Inc. Small quantities of seed for research purposes can be obtained from the corresponding author.

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References and Notes

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