

The following were donated by Walter R. Fehr, Iowa State University, Office of Biotechnology, 1210 Molecular Biology Building, Ames, Iowa 50011, United States; J.B. Bahrenfus; H. Tachibana, AR-SEA-USDA, Iowa State University, Ames, Iowa 50011, United States. Received 1983.

PI 596524. *Glycine max* (L.) Merr.

Breeding. A4. GP-43. Pedigree - L15 x AP68-1016. Moderate resistance brown stem rot. Desirable agronomic characteristics. Flowers white. Brown pubescence. Brown pods at maturity. Seeds with shiny yellow seed coats. Brown hila. Group III maturity. Resistant race 1 phytophthora rot. Moderately resistant pod and stem blight. Moderately susceptible downy mildew and purple stain. Susceptible bacterial blight and soybean mosaic virus.

The following were donated by Earl Hammond, Iowa State University, Department of Food Science and Human Nutrition, 2312 Food Sciences Building, Ames, Iowa 50011-1060, United States; Walter R. Fehr, Iowa State University, Office of Biotechnology, 1210 Molecular Biology Building, Ames, Iowa 50011, United States. Received 1983.

PI 596525. *Glycine max* (L.) Merr.

Breeding. A6. GP-45. Pedigree - Derived from crosses involving PI 68423, PI 80476, and PI 85671. Mutant with fatty acid composition unique to species. Approx. sixfold higher percentage stearic acid than other soybean genotypes evaluated. Flowers purple. Brown pubescence. Brown pods at maturity. Shiny yellow seeds with black hila. Inferior agronomic characteristics.

The following were donated by Walter R. Fehr, Iowa State University, Office of Biotechnology, 1210 Molecular Biology Building, Ames, Iowa 50011, United States; B.K. Voss; S. Rodriguez de Ciano, University of Puerto Rico, Dept. of Agronomy, Mayaguez, Puerto Rico. Received 1983.

PI 596526. *Glycine max* (L.) Merr.

Breeding. A7. GP-50. Pedigree - Selection from breeding population AP9. Outstanding resistance to iron-deficiency chlorosis on calcareous soil (average calcareous rating 1.1). Flowers purple. Gray pubescence. Tan pods at maturity. Dull yellow seeds with yellow hila.

The following were donated by Hans-Henning Mundel, Agriculture Canada, Lethbridge Research Station, Crop Sciences Section, Research Station, Lethbridge, Alberta T1J 4B1, Canada; Harvey D. Voldeng, Agriculture Canada, Ottawa Research Station, Plant Research Center, CEF, Ottawa, Ontario K1A 0C6, Canada; J. F. Seitzer, Kleinwanzlebener Saatzucht, Einbeck-Hannover, Germany. Received 1986.

PI 596527. *Glycine max* (L.) Merr.

Breeding. Lesoy 273. GP-92. Pedigree - Williams/3/Wayne/0-52-903//Portage/4/840-7-3. Averages 41.9% seed protein and 18.9% oil level. Group 00 maturity. Seed yield average 97.7%. Mature plant height average 69 cm. Moderate lodging. Indeterminate plant type. Tawny pubescence. Pods brown. Flowers white. Seeds yellow with dark brown hila. Ave.