incorporate sclerotinia blight resistance into acceptable Virginia and runner market types of peanut.

Seed of VGP 9 will be maintained by Virginia Polytechnic Institute and State University, Tidewater Agricultural Experiment Station. Small quantities of seed are available upon written request to the corresponding author. Appropriate recognition should be given when this germplasm contributes to research or development of new cultivars.

Published July, 1994

References and Notes

Published in Crop Sci. 34:1132–1133 (1994).

Registration of Soybean Germplasm Line LN89-5717, Resistant to Soybean Cyst Nematode

LN89-5717 soybean [Glycine max (L.) Merr.] (Reg. no. GP-164, PI 574542) was developed cooperatively by the Illinois Agricultural Experiment Station and the USDA-ARS and released in 1993. It was released because it has resistance to soybean cyst nematode (SCN) (Races 2, 3, 5, and 14) (Heterodera glycines) derived from PI 89772 (3,4,5). PI 89772 was collected in northeast China in 1930 by the USDA's Dorsett and Morse expedition and provides an alternative source of resistance to SCN.

LN89-5717 originated as an F3 plant selection from the cross 'Williams' X P1 209332 (2). In 1987, remnant seeds of resistant F2 plants, selected from the cross 'Williams' X P1 209332, were planted at the Illinois Agricultural Experiment Station (1). Fifty-six F3 plants were selected from field vigor. In 1989, progeny rows from these selections were grown in SCN-infested soil at Mt. Vernon, IL, in 1987 and at Sandridge, IL, in 1988. The most vigorous plants were selected in each generation. In 1988, the most vigorous 134 plants were selected from 47 F3 rows. In 1989, based on plant type, LN89-5717 was identified at a noninfested location near Urbana, IL. It was evaluated in Illinois for resistance to SCN (Races 3 and 4) in the greenhouse in 1989 and 1992 (4), and for agronomic performance during 1990 to 1992.

LN89-5717 is classified as Group IV maturity (relative maturity 4.4), averaging 3 d later than 'Spencer' and 5 d later than 'Linford'. In the greenhouse evaluation, LN89-5717 was moderately susceptible to Race 1, resistant to Races 3 and 4. In 1988, remnant seeds of resistant F2 plants, selected from the field vigorous plants, were planted at the Illinois Agricultural Experiment Station. Fifty-six F3 plants were selected from the field vigor. In 1989, progeny rows from these selections were grown in noninfested soil at Urbana, IL, and LN89-5717 was identified as one of these rows. LN89-5699 was evaluated for resistance to SCN (Races 3 and 4) in the greenhouse in 1992, and for agronomic performance during 1990 to 1992.

LN89-5699 is classified as Group III maturity (relative maturity 4.0), averaging 3 d later than 'Spencer'. In the greenhouse evaluation, LN89-5699 was moderately susceptible to Race 1, resistant to Races 3 and 4, and 14, and moderately resistant to Races 2, 4, and 5 (4,5). LN89-5699 was classified as Group IV maturity (relative maturity 4.4), averaging 3 d later than 'Spencer' and 5 d later than 'Linford'. LN89-5699 was evaluated for resistance to SCN (Races 2, 3, 4, and 14) in the greenhouse in 1989 and 1992 (6), and for agronomic performance during 1990 to 1992.

References and Notes

Published in Crop Sci. 34:1133 (1994).