REGISTRATION OF 'A6381' SOYBEAN

'A6381' Soybean [Glycine max (L.) Merr.] (Reg. no. CV-236) (PI 527703) was developed by Asgrow Seed Co., subsidiary of the Upjohn Co., Kalamazoo, MI. It is classified as early Maturity Group VI, maturing 2 d earlier than Tracy M (2). A6381 was released because of its productivity in environments, where lodging is often severe such as Argentina. Prior to its release in 1984, it was identified as XP6381. It was evaluated in various state experimental station trials in 1984 and 1985 in the Southern USA. It was also widely evaluated in public soybean cultivar trials in Argentina during 1987 and 1988.

A6381 is an F₅ line from the cross N72-3038 × 'Essex' (3) made in 1976 at Caruthersville, MO. N72-3038 is from the cross of D67-B5 × N64-2451 and was grown in Uniform Preliminary Group VI in 1974. D67-B5 is a phytophthora rot resistant narrow leaf type similar to 'Lee'. N64-2451 has the same parentage as 'Ransom' (1). Generations were advanced to the F₅ by single seed descent in Florida and Missouri.

A6381 has purple flowers, grey pubescence, and tan pods. Foliage is dark green. Seeds are shiny yellow with imperfect black hilum. A6381 averages shorter, 3 g/100 smaller in seed size and has better lodging resistance than Tracy M. It is resistant to bacterial pustule [caused by Xanthomonas campestris pv phaseoli (Smith) Dye]. A6381 has shown resistance to root knot nematode [Meloidogyne incognita (Kofoid & White) Chitwood] in field screenings in both Florida and Argentina. It has also shown field resistance to sclerotinia stem blight [caused by Sclerotinia sclerotiorum (Lib.) de Bary] in Argentina as compared with 'Hood'. A6381 is susceptible to soybean cyst nematode (Heterodera glycines Ichinohe); phytophthora rot [caused by Phytophthora megasperma f. sp. (Drechs.) glycines Kuan and Erwin].

Asgrow Seed Co. will be responsible for maintaining breeder seed.

References and Notes


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REGISTRATION OF 'A6785' SOYBEAN

'A6785' Soybean [Glycine max (L.) Merr.] (Reg. no. CV-237) (PI 527704) was developed by Asgrow Seed Company, subsidiary of the Upjohn Company, Kalamazoo, MI. It is classified as late Maturity Group VI maturity. A6785 was released in 1985 because of its excellent yield potential over a wide range of environments. Prior to release, it was designated XP6681. It has been tested in agricultural experiment station trials in several Southern states from 1984 through 1987 (1,5,6,7).

A6785 was derived from an F₄ plant ('Young' (2) × D74-7741 made at Caruthersville, MO in 1978. D74-7741 is a selection from 'Forrest' (3) × D70-3001 tested in Uniform Group VI in 1977 and 1978. D70-3001 is from the same parentage as 'Centennial' (4). Generations were advanced to F₄ by single seed descent in Missouri and Belize.

A6785 has white flowers, grey pubescence, and tan pods. Foliage is dark green. Seeds are dull yellow with buff hilum. It resembles 'Young' in growth characteristics in averages 3 d later, 5 cm shorter, and 3 g/100 smaller seed.

A6785 has the RPS,c gene for resistance to phytophthora rot [caused by Phytophthora megasperma f. sp. glycines Kuan and Erwin]. It is resistant to root knot nematode [Meloidogyne incognita (Kofoid & White) Chitwood]. A6785 has moderate resistance to stem canker of Diaporthe phaseolorum (Cke. & Ell.) Sacc. Athow & Caldwell] and is resistant to bacterial pustule [caused by Xanthomonas phaseoli (Smith) Dye] and frogeye leaf spot (Cercospora sojina Hara). It has shown good performance in the presence of Columbia lance nematode (Hoplolaimus columbus Sher) (6). A6785 is susceptible to soybean cyst nematode [Heterodera glycines Ichinohe].

Asgrow Seed Co. will be responsible for maintaining breeder seed.

References and Notes