CROP REGISTRATIONS 231

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References and Notes

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REGISTRATION OF 'HOBBIT' SOYBEAN

'HOBBIT' SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 266, PI 540551) was jointly developed by the USDA-ARS and the Ohio Agricultural Research and Development Center. It was released in 1981 as a high-yielding, lodging-resistant, determinate cultivar with specific adaptation to highly productive Midwest environments where lodging is frequently a problem with tall indeterminate cultivars.

Hobbit was derived from an F_4 plant selected from the cross of 'Williams' X 'Ransom' (5,6). The cross was made in 1970. An early-generation testing procedure was used in which F_4-derived lines were yield tested in the F_3 in 1972 and F_4 in 1973. Single plants were harvested from the border rows of a high-yielding F_4 line and were evaluated for yield in Illinois (1974-1976) and Ohio (1977-1980). Hobbit was tested in Uniform Test III of the Uniform Soybean Tests-Northern States from 1977 to 1980 under the designation HW77-3385.

Hobbit is a determinate (dt), Maturity Group III cultivar (4). It has white flowers, tawny pubescence, tan pods at maturity, and shiny yellow seeds with black hila. Hobbit has small seed size (15-16 gm/100 seed), is high in oil (22%) and medium in protein (40%). Plant height averages 60 cm, compared with 100 cm for Williams 82, resulting in greater lodging resistance for Hobbit than Williams 82 (1,2,3). Hobbit is recommended specifically for high yield environments (>3300 kg ha^{-1}). It is moderately resistant to phytophthora root rot (caused by Phytophthora megaspora (Drechs.) f. sp. glycinea T. Kuan & D.C. Erwin) and has moderate field resistance to other races.

Breeder seed of Hobbit was distributed to foundation seed organizations in Illinois, Indiana, Nebraska, and Ohio for planting in 1981. Breeder seed of Hobbit will be maintained by the Ohio Agricultural Research and Development Center, Wooster, OH 44691. Hobbit has been protected under Title V of the Plant Variety Protection Act (No. 8200174).


References and Notes


REGISTRATION OF 'HOYT' SOYBEAN

'HOYT' SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 267, PI 540552) was jointly developed by the USDA-ARS and the Ohio Agricultural Research and Development Center. It was released in 1986 as an early-maturing (mid-Maturity Group II), high-yielding, lodging-resistant, determinate cultivar with specific adaptation to highly productive environments where lodging is frequently a problem with taller indeterminate cultivars.

Hoyt was derived from an F_3 plant selected from the cross of 'Harcor' X 'Elf' (1,2). The cross was made in 1975. Hoyt is an F_4-derived F_5 line evaluated for yield in Ohio from 1979 to 1981. Hoyt was tested in Uniform Test II of the Uniform Soybean Tests--Northern States from 1982 to 1985 under the designation HC78-523.

Hoyt is a determinate (dt), Maturity Group II cultivar that is 3 days earlier than 'Gnome' (3). Hoyt has purple flowers, tawny pubescence, tan pods at maturity, and shiny yellow seeds with black hila. Hoyt has small seed size (13-14 gm/100 seed), average in oil (21%) and protein (41%) content. Plant height averages 60 cm, compared with 90 cm for Corsoy (6), resulting in greater lodging resistance (3,4,5). Hoyt is recommended specifically for high-yield environments (>3300 kg ha^{-1}). It carries the Rps_1 gene for resistance to phytophthora rot (caused by Phytophthora megaspora (Drechs.) f. sp. glycinea T. Kuan & D.C. Erwin) and has moderate field resistance to other races.

Breeder seed of Hoyt was provided to Ohio Foundation Seeds for planting in 1986. Breeder seed of Hoyt will be maintained by the Ohio Agricultural Research and Development Center, Wooster, OH 44691.


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References and Notes


