REGISTRATION OF 'RIPLEY' SOYBEAN

'RIPLEY' SOYBEAN [Glycine max (L.) Merr.] (Reg. no. 251; PI 536636) was jointly developed by the USDA-ARS and the Ohio Agricultural Research and Development Center. It was released in 1985 as a high-yielding, lodging-resistant, determinate cultivar with specific adaptation to highly productive environments, where lodging is a frequent problem with taller, indeterminate cultivars of similar maturity.

Ripley was derived from an F₄ plant selected from the cross of 'Hodgson' × V68-1034 (3). The V68-1034 is a selection from the cross 'York' × PI 71506 (4); the cross was made in 1973. Ripley is an F₄-derived F₃ line that was evaluated for yield in Ohio from 1977 to 1980. It was tested in the Uniform Soybean Tests, Northern States, from 1981 to 1984 under the designation HC77-2204.

Ripley is a determinate, Maturity Group IV cultivar that matures ~4 d later than 'Williams 82'. It differs from other northern determinate cultivars that carry the dtₑₑ gene by carrying the Eₑ gene, which delays flowering. Ripley has purple flowers, gray pubescence, tan pods at maturity, and shiny yellow seeds with buff hila. Plant height averages 75 cm, as compared with 100 cm for Williams 82. Ripley is recommended primarily for higher-yielding environments (>3300 kg ha⁻¹), where lodging is a frequent problem with taller cultivars. Because the Eₑ gene delays flowering, Ripley produces greater plant height than dtₑₑ genotypes of similar maturity. Ripley has good field resistance to phytophthora rot [caused by Phytophthora megasperma (Drechs.) f. sp. glycinea Kuan & Erwin].

Breeder seed of Ripley was distributed to foundation seed organizations in Illinois, Indiana, Kentucky, Missouri, and Ohio for planting in 1985. Breeder seed of Ripley will be maintained by the Ohio Agricultural Research and Development Center, Wooster, OH 44691. Ripley has been protected under Title V of the Plant Variety Protection Act no. 870098.


References and Notes