(relative maturity 4.7) that matures 4 to 5 d later than ‘Douglas’ (2), 7 d earlier than Essex and is a full-season cultivar from 36° to 38° N lat. Mature plants of Pennyrile are about 10 cm taller than those of Douglas; lodging resistance is similar for the two cultivars. Plants of Pennyrile have white flowers, tawny pubescence and tan pod walls. Seeds are dull yellow with black hila and a positive seed peroxidase activity. Seed size is 6% smaller than that of Douglas. Pennyrile has a seed quality score of 2.4 compared with 3.2 for Douglas. Seeds of Pennyrile have protein and oil concentrations similar to those of Douglas. In comparison with Douglas, Pennyrile averages about 2.5% higher seed yield in full season production and 10% higher seed yield in double crop production.

Pennyrile is susceptible to phytophthora rot [caused by *Phytophthora megasperma* (Drechs.) f. sp. *glycinea* Kuan and Erwin] and to the *soybean cyst nematode* (*Heterodera glycinea* Ichinohe).

The Illinois Agricultural Experiment Station, Urbana, participated in the release of Pennyrile. Title 5 Plant Variety Protection has been applied for and breeder seed was distributed to the foundation seed organizations in the participating states for planting in 1987. Breeder seed will be maintained by the Kentucky Foundation Seed Project, Kentucky Agricultural Experiment Station, Lexington, KY 40546-0091.

T. W. Pfeiffer* and J. H. Orf(4).

REFERENCES AND NOTES

4. T.W. Pfeiffer, Dep. of Agronomy, Univ. of Kentucky, Lexington, 40546, and J.H. Orf, Dep. of Agronomy and Plant Genetics, Univ. of Minnesota, St. Paul, 55101 (formerly Dep. of Agronomy, Univ. of Kentucky). This research was supported in part by a grant from the Kentucky Soybean Fund Utilization Committee. This paper (87-3-230) is published with the approval of the director of the Kentucky Agric. Exp. Stn. Registration by the CSSA. Accepted 29 Feb. 1988. *Corresponding author.

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REGISTRATION OF ‘SHARKEY’ SOYBEAN

‘Sharkey’ soybean [*Glycine max* (L.) Merr.] (Reg. no. 213) (PI 515960) was developed by the USDA, ARS, in cooperation with the Delta Branch, Mississippi Agricultural and Forestry Experiment Station. It was released in 1987 to provide a highly productive, multiple pest resistant cultivar of Group 6 maturity. Prior to release the breeding line designation was D79-6162.

Sharkey is the increase of an F₃ line from the cross ‘Tracy’ (1977) × ‘Centennial’ (1974), involving addition of resistance to major diseases of the soybean. Sharkey has been evaluated in replicated trials at Stoneville, Whiteville, and Brookings, and at the Northeast Branch of the Mississippi Agricultural and Forestry Experiment Station, Verona, with stem canker [caused by *Diaporthe phaseolorum* Kuhn] and at Manhattan, KS and resistant selections were transplanted to the herbicide metribuzin (4-Amino-6-(1,1-di(methylthio)-3-(methylthio)-1,2,4-triazin-5(4H)-one). Sharkey has been evaluated in replicated tests, Southern Regional Preliminary Group 6 in 1982 and 1983, and in Uniform Group 6 in 1983–1987. It is resistant along with ‘Tracy-M’ and ‘Centennial’ to irrigation management studies on Sharkey.

Sharkey is resistant to bacterial pustule [*Xanthomonas phaseoli* (E. F. Sm.) Dows, von Starr & Burkholders] and to the root knot nematode [*Meloidogyne incognita* (Kofoid and White, 1919)] containing genes *Rps₁* and *Rps₂* conditioning resistance to phytophthora rot and the genes *Rdp₁* and *Rdp₂* conditioning resistance to stem canker. Sharkey is similar in maturity to ‘Pennyrile’ and ‘Centennial’. It is best adapted for production on soils where lodging resistance is not a problem. Sharkey has been evaluated in replicated trials at Stoneville,Mississippi, in 1987. In 1983 Sharkey averaged about 12.5 g/100 seeds, whereas ‘Pennyrile’ averaged about 14.7 g/100 seeds. Sharkey has been released to production in Mississippi. The Miss. Agric. and For. Exp. Stn. Registration by the CSSA. Published in Crop Sci. 28:719-720 (1988).


References and Notes

1. E.E. Hartwig, T.C. Kilen, and C.J. Edwards, Jr., MS 38776. Joint contribution from USDA-ARS and Delta Branch, Ms. 38776. Joint contribution from USDA-ARS and Delta Branch, Miss. Agriculture and Forestry Experiment Station. Registration by CSSA. "Corresponding author.

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