III soybean, and is generally adapted from 39 to 41° N. Lat. In comparison with A3127, it is the same maturity and 5% higher yielding in Ohio tests. In comparison with ‘Harper’, Resnik has 6% higher yield, 15% better seed quality score, 0.4 percentage units higher seed protein, and better emergence at 25°C. Harper and Resnik are very similar in height (84 cm), lodging score (1.5), maturity, Fe chlorosis tolerance scores (3.5 and 3.6, respectively), and shattering score (1.0). Resnik is comparable in performance to its sister line ‘GR8836’, except that it is one or two days earlier in maturity.

Resnik is resistant to at least 19 of the 24 described races of Pmg (susceptible to races 12, 16, 19, 20, and 25). It is also moderately resistant to purple seed stain (caused by Cer-cospora kikuchii T. Mat. & Tomoy.), soybean mosaic virus seed mottling, downy mildew [caused by Peronospora man-shurica (Naoum.) Syd. ex Gaum.], bacterial tan spot [caused by Corynebacterium flaccumfaciens (Hedges) Dawson], pod and stem blight [caused by Diaporthe phaseolorum (Cke. & Ell.) Sak. var. sojae (Lehman) Wehm.], and powdery mildew (caused by Microsphaera diffusa Cke. & Pk.). Resnik is susceptible to brown stem rot [caused by Phialophora gregata (Allington & Chamberlain) W. Gams], whereas its sister-line GR8836 is moderately resistant.

Breeder seed of Resnik was distributed to foundation seed organizations in Illinois, Indiana, Kansas, Maryland, Missouri, and Ohio for increase in 1987. Breeder seed will be maintained by the Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, Ohio 44691. Resnik is protected under Title V of the Plant Variety Protection Act.


References and Notes

4. Dep. of Agronomy and Dep. of Plant Pathology, Ohio Agric. Res. and Development Ctr., R.L. Cooper, USDA-ARS, The Ohio State University, Wooster, Ohio 44691. Research supported in part by gifts from the Ohio Seed Improvement Association. Salaries and research support provided by state and federal funds appropriated to the Ohio Agricultural Research and Development Center, The Ohio State University. Manuscript No. 73-89. Registered by CSSA. Accepted 31 July 1989. *Corresponding author.


REGISTRATION OF CROP CULTIVARS

A3127 BC,F,-10 was tested at two locations in the Ohio tests from 1985 to 1987. Flyer was 1 to 2 d later and more lodging resistant than Williams 82 in regional tests. Flyer was 6% higher yielding than Williams 82 in regional and Ohio tests, respectively.

Flyer is resistant to at least 19 of the 24 described races of Pmg (susceptible to races 12, 16, 19, 20, and 25). It is also moderately resistant to purple seed stain [caused by Cer-cospora kikuchii (T. Mat. & Tomoy.),] pod and stem blight [caused by Diaporthe phaseolorum (Cke. & Ell.) Sak. var. sojae (Lehman) Wehm.], and powdery mildew (caused by Microsphaera diffusa Cke. & Pk.).

Breeder seed of Flyer was distributed to foundation seed organizations in Illinois, Indiana, Kansas, Ohio for increase in 1988. Breeder seed will be maintained by the Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, Ohio 44691. Flyer is protected under Title V of the Plant Variety Protection Act.


References and Notes
