REGISTRATION OF NATHAN SOYBEANS
(Reg. No. 161)

E. E. Hartwig and J. M. Epps

‘Nathan’ soybeans [Glycine max (L.) Merr.] originated as an F₁ line developed from a modified backcrossing program Forrest(2) × (D68-18 × PI 88788), the same program from which Bedford(1) and another F₂ line, called Forrest 2, was developed. Nathan is approximately 10 days earlier in maturity than Bedford and similar in maturity to the variety ‘Essex.’ Prior to release it was identified as J74-51. It was developed in a cooperative program of the USDA-ARS with the Tennessee and Mississippi Agricultural Experiment Stations. It is classified Maturity Group V.

Nathan has a determinate plant type, white flowers, tawny pubescence, tan pod walls, yellow seed coats, and black hilum. It is adapted for production under a modified backcrossing program, flowering, time of maturity, and plant height was observed than is desired in a variety.

Two hundred plants were selected at Gainesville, Florida, and F₃ lines grown. Lines representing the major type of the parent variety were harvested. Approximately 150 lines were planted in early August at Rio Farms in the Rio Grande Valley of Texas the following year. Seven lines with similar characteristics were selected and designated as Nathan.

Jupiter-R, has a determinate plant type, purple flowers, tawny pubescence, tan pod walls, yellow seed, and black hila. It differs from the parent variety by greater uniformity. It is well adapted for planting in the lower Rio Grande Valley in late July or early August as a second crop after a crop such as sorghum. It will mature about 10 December. It has excellent seed-holding qualities.

Seed was increased in 1981 for further increase in the Rio Grande Valley, by Rio Farms, Inc., Edcouch, TX 78538. Rio Farms, Inc., will maintain breeder seed.

REGISTRATION OF SIMPSON SOYBEAN
(Reg. No. 162)

J.W. Lambert, B.S. Kennedy, and J.H. Orf

‘Simpson’ soybean [Glycine max (L.) Merr.], developed by the Minnesota Agricultural Experiment Station, originated as an F₁ line from the cross ‘Steele’ × ‘Hodgson’. Before its release, Simpson was tested for 3 years in the Uniform Regional Group 0 Test under the experimental designation M70-153. It is about 3 days later than ‘Evans’ and 5 days earlier than ‘Hodgson 78’. It will be most useful in central Minnesota (44° to 46° N Lat) and in areas of comparable climate in other states.

Distinguishing characteristics of Simpson are purple flowers, gray pubescence, yellow cotyledons, dull yellow seed coats, and buff hila. The canopy has medium width, and the leaves are medium green. Stems and pods are brown at maturity. Simpson has medium plant height and good resistance to lodging. Seeds of Simpson are similar to Evans in size, visual quality score, and percentages of protein and oil. Simpson has outyielded Evans by 3 to 5%. Simpson is resistant to Races 1 and 2 of phytophthora root [caused by Phytophthora megasperma (Drechs) var. sojae A.A. Hildebrand] but is moderately susceptible to chlorosis on high pH soils.

Seed of Simpson was released to certified growers in Minnesota, North Dakota, South Dakota, and Wisconsin in 1982. The Minnesota Agricultural Experiment Station will be responsible for maintenance of breeder seed. Other information on Simpson is published in Varietal Trials of Farm Crops (Miscellaneous Report 24, Agric. Exp. Stn., St. Paul, MN 55108).

REGISTRATION OF SEVERN WHEAT
(Reg. No. 661)

D. J. Sammons and J. W. Johnson

‘Severn’ wheat (Triticum aestivum L.), CI 17939, is a soft red winter wheat cultivar developed by the Maryland Agricultural Experiment Station, and released in 1981. Seveen originated from the cross ‘Coker 65-20’/Arthur by T. M. Starling of the Virginia Agricultural Experiment Station in 1969. An F₁ bulked population derived from the cross was received by the Maryland Agricultural Experiment Station in 1971, and an F₂, head row designated MD 55-114-03 was selected in 1973. Following 2 years of preliminary testing, the line entered statewide testing in 1975. Severn was also tested for 3 years (1979–1981) as MD 55-114-03 in the Uniform Southern Soft Red Winter Wheat Nursery at locations throughout the southeastern United States.

‘Severn’ is resistant to SCN race 4 resistant variety earlier in maturity than Bedford.

Severn was also released as MD 55-114-03 in the Uniform Southern Soft Red Winter Wheat Nursery at locations throughout the southeastern United States.


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