Registration of ‘TN 6–90’ Soybean

‘TN 6–90’ soybean [Glycine max (L.) Merr.] (Reg. no. CV-308, PI 564999) was developed by the Tennessee Agricultural Experiment Station. TN 6–90 was released in 1990 because of its high yield potential and good disease resistance.

TN 6–90 was derived from a F1 plant selected from the cross ‘Asgrow 5474’/TN82–94. Asgrow 5474 is a proprietary cultivar of Asgrow Seed Company. The line TN82–94 was selected from the cross ‘Essex’ (5)//‘Bay’ (2)/N73–520. The pedigree of the line N73–520 is ‘Tracy’ (3) // ‘Ransom’ (1). TN 6–90 was tested in Tennessee and other Southern states for seed yield, agronomic performance, and disease and nematode reaction from 1987 through 1990 under the experimental designation TN87–198. It was evaluated in the Uniform Soybean Tests, Southern Region, Preliminary Group VI in 1989 and Uniform Group VI in 1990.

TN 6–90 is a Maturity Group VI cultivar that has determinate growth habit, tawny pubescence, white flowers, and tan pod walls. Seeds are yellow with dull seed coat lustre and imperfect black hila and average 13.9 g 100–1 seed. The seed quality, plant height, and maturity are similar to ‘Leflore’ (4). The protein content is similar to that of Leflore (41.7%); whereas the oil content (20.2%) is approximately 1% higher than Leflore. Yield of TN 6–90 was approximately 10% higher than Leflore in Uniform Soybean Tests, Southern Region, during 1989–1990 and 12% higher in tests conducted in Tennessee.

TN 6–90 has resistance to stem canker [caused by Diaporthe phaseolorum (Cooke & Ellis) var. caulivora Athew & Cald-