NOTICE OF RELEASE OF ‘CL0J095-4’ SOYBEAN CULTIVAR

The Purdue University Agriculture Research Programs is pleased to announce the release of a new soybean cultivar, CL0J095-4, for nonexclusive licensing for commercialization. The use of the code letters “CL” in the name of this cultivar was taken from the breeding strain designation system used by the USDA Uniform Soybean Testing System of the Northern Midwest Region. Seed of CL0J095-4 is being increased and will be available from the Agricultural Alumni Seed Improvement Association, 702 State Road 28 East, P.O. Box 158, Romney, IN 47981; Ph 800-822-7134; email: agalumni@agalumniseed.com. Small amounts of seed will be available for performance testing in 2007 from the Agricultural Alumni Seed Improvement Association.

CL0J095-4 was developed for the Non-GMO soybean market by the Purdue University Agriculture Research Programs with support from the Indiana Soybean Board and the USDA-ARS. This cultivar is an F3 plant selection from the cross CX1705R-108*Dwight. CX1705R-108 is an experimental line with 49% protein developed by Jim Wilcox at Purdue University. It came from the cross CRS7C1-13-1*Savoy. CX1705R-108 has the Phytophthora resistance genes Rps1b and Rps3a. Dwight, which was developed by the Illinois Agricultural Experiment Station at the University of Illinois, was released because of its resistance to soybean cyst nematode (SCN) (Heterodera glycines), derived from PI88788, and higher yield compared with SCN-resistant varieties of similar maturity.

CL0J095-4 is an indeterminate line classified as early Group III maturity (relative maturity 3.1) with purple flowers, tawny pubescence, tan pods at maturity, seeds with grey hila and dull seed coat. This line is segregating for the Rps1b gene for Phytophthora root rot resistance. CL0J095-4 is moderately resistant to sudden death syndrome caused by Fusarium solani. CL0J095-4 displayed DX scores that indicated moderate resistance to SDS in its performance in the 2005 Regional SDS Variety Trial. CL0J095-4 is also moderately resistant to SCN phenotypic Race 3.

In 2004 and 2005, CL0J095-4 was tested versus high yielding commercial varieties recommended for production in Northern and Central Indiana (AG3201 and AG2801) and 2 varieties released by Purdue Agriculture Research Programs in 2005 (CL0J173-6-8 and CL0J173-6-2) (Tables 1 and 2). Averaged over six environments, CL0J095-4 had similar maturity to AG3201 and matured 1 day later than CL0J173-6-8. CL0J095-4 yielded 60.4 bushels/acre, compared with 58.8 bushels/acre for AG3201 and 59.5 bushels/acre for CL0J173-6-8. CL0J095-4 had greater seed protein content and less seed oil content than AG3201 and CL0J173-6-8 (Table 3).

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