REGISTRATION OF PARENTAL LINES

Registration of Mp339 and Mp412 Parental Lines of Maize

Mp339 and Mp412 (Reg. no. PL-167, PI543916; and Reg. no. PL-168, PI543917), respectively, are dent inbreds released in 1971 which were developed cooperatively by the Mississippi Agricultural and Forestry Experiment Station and the USDA-ARS.

Mp339 was derived by selfing for eight generations by the ear-to-row system from the cross T61 x ‘Hill Yellow Dent’. Based on rather extensive testing, Mp339 combines well with many other genotypes and contributes good yields to hybrids. This inbred appears to contribute prolificness and a tendency for weak stalks to most of its hybrids.Mp339 has white kernels and cobs. The maturity rating of Mp339 is AES1100. This inbred has good resistance to maize dwarf mosaic virus and maize chlorotic dwarf virus (1,2).

Mp412 was derived from ‘Hill Yellow Dent’ by selfing for 10 generations by the ear-to-row selection system. This inbred contributes single-earedness to its crosses and has medium yield factors. Mp412 has a high potency for lodging resistance with good root and stalk strength. This inbred has yellow kernels and white cobs, but the kernel quality of the inbred is poor. Mp412 has excellent resistance to both maize dwarf mosaic virus and maize chlorotic dwarf virus (1,2). It is susceptible to the corn leaf aphid, Rhopalosiphum maidis (Fitch). Mp412 has a maturity rating of AES1100.

Breeder seed is available in 50-kernel lots from the Agronomy Department, P.O. Box 5248, Mississippi State, MS 39762.

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References and Notes

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ERRATUM

A. FORREST TROYER: NCCPB Genetics and Plant Breeding Award for Industry.

Crop Science 33:393–394 (March–April). During the editing process, a few sentences were removed from the original manuscript. Dr. Troyer asked that the following information be reinstated: Dr. Rosenbrook was his most frequent co-developer of hybrids at Pioneer. Francis Garing is his most frequent co-developer at Dekalb.