

Modification of the Deltasoy Database and Potential Applications in Research and Extension Education. (C04-zhang174324-Poster)

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Abstract:

An Internet-based soybean database for state variety trials, Deltasoy, was first published on the web (<http://www.deltasoy.msstate.edu>) in 1999. Many updates have been implemented to cope with the interests of soybean growers and researchers. Currently, the Deltasoy database includes 950 varieties representing 81 seed companies from 1996 to 2001. Attributes that can be queried include annual yield, average yield, plant height, maturity date, lodging score, shattering score, and disease information. Average yield can be searched according to year, maturity group, variety, location, planting date, conventional or roundup-ready, irrigation, and soil type. Authorized users can add and update their data easily. Source data can be uploaded in various data formats such as EXCEL or RTF. Artificial intelligence technology has been used to predict soybean growth pattern allowing prediction of vegetative and re-productive growth stages based on the planting date and maturity group.

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