

Fairway Renovation with Roundup Resistant Creeping Bentgrass. (C05-gannon171318-Oral)

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Abstract:

Glyphosate resistant creeping bentgrass (Roundup Ready Creeping Bentgrass) may soon be available for commercial use on golf courses. In traditional row-crop agriculture, transgenic crops resistant to herbicides have provided the opportunity for a comprehensive weed management program. Research trials were initiated in the summer and fall of 2001 to investigate means and time required to convert an existing Penncross bentgrass fairway into a Roundup Ready bentgrass fairway. Research trials evaluated seedbed preparation techniques and Roundup Pro application timings and rates. Seedbed preparation variables included vertical mowing in two directions, vertical mowing in two directions with core aerification, and no seedbed preparation. Roundup Pro rates ranged from 1.5 to 6 fl oz/a beginning at planting. In the fall seeded trial, a complete transition from an existing Penncross bentgrass to a Roundup Ready bentgrass was achieved. The best conversion involved applications of Roundup Pro at or around seeding. Repeat applications are needed at four week intervals for ninety days to ensure that all non-transgenic plants are eliminated.

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