Bentgrass Quality Established on Sand Mixes Amended with Various Organic Materials. (C05-clark112836-Poster)

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Abstract:

Various organic amendments and bentgrass varieties have been commonly used in golf course green construction. This study was conducted to evaluate the response of various organic amendments used in sand mixes to grow four varieties of bentgrass. The organic amendments were Canadian sphagnum peat moss (CSP), steer manure, biosolids and a mixture of steer and CSP. The bentgrass varieties selected for this study were Penncross, A-4, Crenshaw, and L93. The parameters evaluated included turf quality, root mass, root length and water infiltration. Preliminary results indicated that sand mix added with steer manure had the best turf quality, followed by sand mix amended with steer manure and peat moss. However, no significant difference was found between the two. Results also revealed that CSP had the lowest turf quality score and the rating was significantly different from the other sand mixes. In the variety test, turf quality results showed no significant difference among A-4, L93, and Crenshaw. Nevertheless, Penncross had the lowest rating and was significantly different from the other three varieties. Overall, L93 bentgrass had the highest quality rating on both sand mixes amended with steer manure alone and steer manure with peat.

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