Frequency and Mowing Height Influence on Root Density Distribution along Texas Highways. (S06-basinger135056-Poster)

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Abstract:

The influences of frequency and mowing height on root density distribution were investigated along four Texas highway right-of-ways. Plots, 15 m by 3 m, were established and replicated four times near Andrews, Brady, Lufkin and Tahoka, Texas. Mowing frequencies were zero, one, two, and three times annually and mowing heights were 5, 10, and 20 cm. The soil core samples were collected to determine root density numbers using the Core Break method. Root density numbers at the Andrew's location have decreased in time with the treatment combination frequency of three times annually and mowing height at 5 cm. Data showed a correlation between root density numbers and short, frequently mowed treatments. At the Brady, Lufkin, and Tahoka sites little relationship exists between the root density numbers and the mowing treatments.

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