Microbial Properties in Turfgrass Soils under Short-term Natural Organic Fertilizer Application. (C05-li114503-Oral)

Authors:

- K.Li* - *University of Massachusetts at Amherst.*
- W.Torello - *University of Massachusetts, Amherst, MA*

Abstract:

Natural organic fertilizers used as nitrogen source and IPM practices for turfgrass management is increasing interest due to their beneficial effects on turf ecosystem. The objectives of this study were to evaluate three organic N-sources (Milorganite, NatureSafe, and BioSOF Plus) for their effect on soil microbial activity on two different soil type golf fairway conditions (silty loam and sand soil). The organic fertilizers and inorganic fertilizer were applied at 24.5 kg N/ha/month. Soil samples were taken at 2nd, 7th, and 14th day after fertilizer application and microbial biomass C and respiration were determined. There was no significant correlation between different organic fertilizer application and soil microbial biomass C and respiration.

Corresponding Author Information:

Kun Li
University of Massachusetts
Stockbridge Hall, Umass
Amherst, MA 01003

phone: 413-577-0101
e-mail: kli@pssci.umass.edu

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