# The Evaluation of the Effects of Land Applied Swine Effluent on Tall fescue(Festuca arundinacea schreb.) (C06williams120122-Poster)

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## Abstract:

Land application of swine waste generated by swine feeding operations has become a major concern for state and federal agencies due to the height environmental concerns. This study was conducted at the Sand Mountain Research and Extension Center in Crossville, A1. The soil type was Hartselle fine sandy loam (Thermic typic hapludult). The objectives of this study were to determine the effects of swine (Sus scrofa domesticus) lagoon effluent and fertilizer once applied to tall fescue (Festuca arundinaceous Schreb.) by determing dry matter yield, N and P uptake. This experiment was conducted over three cropping seasons 1998, 1999, 2000 and residual harvest in 2001. The rate N applied from swine effluent and fertilizer was 67 kg N ha-1. Tall fescue was harvested three times a year. The dry matter yields for swine lagoon effluent lagged to the fertilizer plots in the first year (1998), but in consecutive harvests swine lagoon effluent yields were higher. As for the residual harvest (2001) the swine lagoon effluent plot yields were higher than the fertilizer in all three harvests.

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