## **On-farm Production of AM Fungus Inoculum.** (S03-douds095943-Poster)

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## Abstract:

Arbuscular mycorrhizal (AM) fungi are mutualistic symbiotic soil fungi with great potential utility in plant production. Large-scale inoculation of soils with AM fungi currently is inhibited by costs of production and shipping large quantities of inocula. Experiments were conducted to develop 'on-farm' production of AM fungus inocula. Paspalum notatum seedlings, precolonized by a variety of isolates of AM fungi, were transplanted into enclosures containing compost or field soil, each diluted with various amounts of vermiculite. Most probable number assays conducted at the end of the growing season indicated up to 100 million propagules per 0.084 cubic meter enclosure, an approximate 10,000 fold increase over that in the rhizospheres of the original precolonized plants. These results demonstrated the feasibility of farmers increasing inocula on-site. **Corresponding Author Information:** 

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## **Presentation Information:**

Presentation Date: Wednesday, November 13, 2002 Presentation Time: 2:00-4:00 pm Poster Board Number: 1728

## **Keywords:**

arbuscular mycorrhizal fungi, inoculum, symbiosis, sustainable agriculture