



**School of Plant,  
Environmental  
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## Efficient Nursery Irrigation System

**Inventors:** Edward Bush, Jeffrey Beasley, Maureen Theissen

### **Description:**

This technology is an automatic irrigation management controller for potted nursery plants. The system includes simple sensors and logic units that deliver an appropriate amount of water based on soil water holding capacity. When plants are overwatered, excess fertilizers that are not absorbed as nutrients can collect inside of the soil and eventually damage plant roots or can accumulate to dangerous levels in soil. The system automatically shuts off irrigation after the soil becomes moistened to its capacity. Proper irrigation improves plant root and shoot growth and helps reduce the prevalence of diseases. Additionally, maximizing fertilizer efficiency reduces the loss of beneficial nutrients into the environment. This optimizes the longevity of fertilizers, while reducing the production cost of nursery crops.

### **Advantages:**

- Superior plant growth
- Lowers water usage
- Less negative environmental impact
- Less environmental impact
- Increases profit

### **Commercial Uses:**

- Irrigation system for nurseries

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