



**Sweet Potato
Research Station**

Disclosure Number: Ag- 1006

Sweet Potato Irrigation Decision Support System

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Description:

AgCenter scientists and engineers have invented a new decision support system to improve irrigation scheduling and the quality of harvested sweet potatoes. The system focuses on maximizing the number of sweet potato storage roots through the use of a small group of solar powered sensors. It can also determine proper irrigation rates and schedules and forecast potential yield to profitability. The system's data is accessible through mobile phones, web-based applications, and text messages to maximize convenience for farmers.

Advantages:

- More accurate yield forecasting
- Higher efficiency harvests
- Easy and convenient access to data

Commercial Uses:

- Support system for irrigating sweet potatoes
- Support system for crop production

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