



SOIL MOISTURE SENSOR

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The Invention

UW-Madison researchers have developed a battery-less tag that can harvest energy from radio signals above ground and send an active response, which is used to estimate the soil moisture. There are two parts, a battery-less tag design, and a sensing mechanism using energy harvesting and time to communicate soil moisture. The solution is low-cost using active radios and an RF source to estimate soil moisture at varying depths for in-situ measurement.

Additional Information

For More Information About the Inventors

- [Bhuvana Krishnaswamy](#)

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Sensors](#)
- [Animals, Agriculture & Food : Precision agriculture](#)

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842