CropMonitor: A Decision support system for citrus irrigation management

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The process of irrigation scheduling

- Irrigation decision
- Soil-plant-environment
- Information (sensors)
- Data processing (computer)
- Data transfer
Soil moisture sensors

Weather stations

Irrigation decision

Data processing (computer)

Data transfer

Information (sensors)

Soil

Plant

Environment

Information

Data

Transfer

Soil-plant
environment

RH

Rain

Groundwater
What else a SMS system read?

Soil temperature
Electrical conductivity
Water table rise
Automation in Irrigation

Semi-Manual

SMS reading and logging → Data collection → Data analysis, graphing, and visualization

Telemetry

SMS reading and logging → Data analysis, graphing, and transfer → Data visualization
No telemetry? CropMonitor

• In our lab we developed *CropMonitor* a software that gathers data coming from soil moisture and other sensors in the field including weather. CropMonitor was developed to provide sensor data visualization in the cellphone and PC when telemetry is not available.

• With *CropMonitor* the user can manage and personalize their weekly irrigation schedules. Crop Monitor allows to incorporate many sensors from multiple brands and visualize rain forecast or other water information required for irrigation.
Our software makes easy for you to visualize data in your PC or cellphone.
We are looking for growers that want to test CropMonitor!

If you are interested send us an email: sandra.guzmangut@ufl.edu
Research sponsor

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https://youtu.be/qOhfxNQ9BkQ
Thank you
Questions?

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