

Sensor-Based Monitoring for Water and Nutrient Management

AgNetLive

Wireless Crop Monitoring Solutions

Produce more spend less

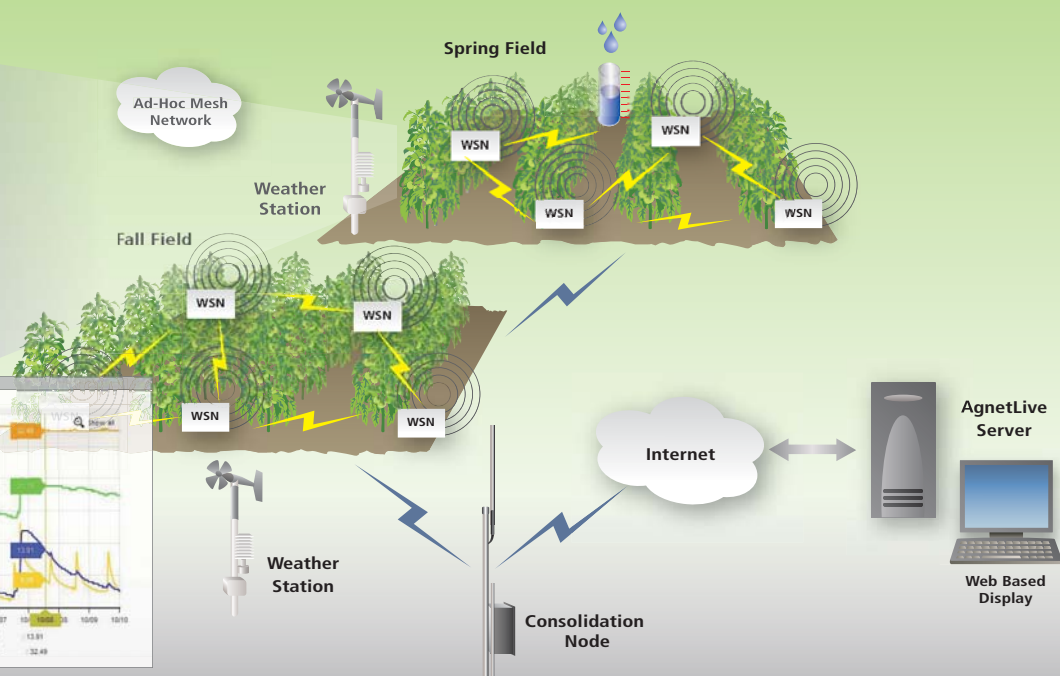
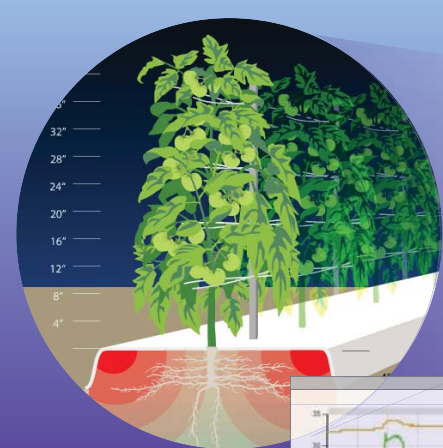
Variations in weather, frequency of irrigation and nutrient content in specific soils make every crop and growing cycle unique. Being able to monitor soil moisture, fertilizer concentrations and meteorological parameters in real time provides farm owners and operators with a real competitive edge. Imagine being able to improve the yield and quality of your crops while having the ability to optimize nutrient uptake by keeping the most beneficial levels of water and fertilizer in the root zone. The results would change your **bottom line**.

PraxSoft's AgNetLive provides a Web-based decision support system that collects real-time data from wireless sensor nodes (WSN) distributed throughout commercial fields and farms. AgNetLive uses the PraxSoft Active™ Series which combines unique hardware, software and communications to support accurate data collection

and improve decision-making. Wireless sensor nodes form the basis of the system and have built-in intelligence to collect, communicate and analyze data about their surroundings and the environment. Each sensor node monitors specific parameters related to field conditions, soil water content, evapotranspiration (ET) and other environmental characteristics. PraxSoft's technology then converts this data into meaningful information accessible to users from any Internet connection. The real-time information can be used to better schedule irrigation, fertilizer and pest control. This keeps cost and waste to a minimum while promoting improved crop yield and quality.



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How it Works

Autonomous sets of wireless sensor nodes are known as Wireless Sensor Networks. These wireless sensor nodes are distributed throughout fields, across farms or other landscapes to gather real-time and long-term data such as soil moisture, fertilizer concentration, temperature and wind direction. The nodes then communicate this data through other nearby nodes in an ad hoc fashion. This unique communications scheme allows the scattering of low-power nodes for optimal coverage, eliminating expensive communications costs. The nodes find the best path back to the base station through one or more collection points. Several long-range legacy communication methods, including satellite, radio telemetry and cellular links, provide reach-back from the collection point

The Results

- Improved on-site monitoring of field and crop conditions
- Optimal scheduling of irrigation, fertilizer and pest control
- Improved crop yield and consistency
- Decreased water and fertilizer usage

Complete Field Management

AgNetLive also includes a "model" to provide the perfect tool for total farm management. Real-time data from each farm location is compared against the "model" which represents ideal field conditions. The farm owner or operator uses the model, along with data from weather and sensor nodes, to compare and forecast irrigation demands. When field conditions change, the irrigation process can be automatically triggered or remotely activated to release water or fertilizer, restoring the field to optimal levels for maximum production. Farmers can also look at daily and seasonal yield forecasts and compare them to actual field results.

Contact us to learn more about AgNetLive and implement the system that produces real results from real-time data. AgNetLive provides an immediate ROI by improving crop yield and consistency while decreasing water and fertilizer usage. Let PraxSoft increase your productivity and profit margin this growing season with **AgNetLive**.

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