

WEATHER MONITORING FOR SPORTS TURF MANAGERS

An increasing number of sports turf managers are using weather stations to correlate weather conditions and events with turf disease, says Paul Gannett, Onset product marketing manager. For example, many turf managers are concerned about pythium, which can occur during periods of sustained high temperature and humidity. Weather stations are used to identify high-risk periods for this and other diseases, so that chemicals are applied when they will be most effective and without risking the health of the athletes. Turf managers are also using weather stations to record the various weather parameters necessary for calculating growing degree-days or evapotranspiration, as well as for monitoring soil temperature and moisture.

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"I'd say that the most significant advance from Onset contributing to greater ease-of-use is smart sensor technology, which our HOBO Weather

Stations and Micro Stations are based on," Gannett says. "Smart sensor technology allows turf managers to plug in any combination of research-grade sensors, which are automatically recognized by the station without complex wiring, programming, or calibration requirements. The user has total flexibility in terms of mixing and matching smart sensors in order to monitor critical site-specific conditions. For example, it might be important to monitor soil moisture at various depths, and soil temperature just below the surface. The weather station would allow the user to plug in these sensors and the logger will recognize them and record and report the data in the correct units.

"We have also simplified power requirements. Our stations are battery-powered which enables turf managers to deploy them anywhere without having to use large battery packs, solar panels, or run wires for AC power."

Regarding data retrieval, Gannett says, "Today, turf managers have a range of options. Many are attracted to our new wireless radio modem, which enables users to automatically retrieve climate data on their desktop from multiple HOBO weather stations deployed up to 5 miles away. The modem uses 900MHz spread-spectrum technology so no license is required, and has the added advantage of being battery powered so no solar panels are required.

"Of course, turf managers who don't opt for wireless communications are free to take a laptop or handheld out to the monitoring sites in the field and offload data there, or bring the logger back to an office PC for offload. Onset Computer Corp./508-759-9500 For information, circle 098 or see http://www.oners.ims.ca/5061-098

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> leatherBug, owner and operator of the largest weather network in the world, is proud offer the most comprehensive weather and turf management solution available.

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