

MEMORANDUM

FROM: James Dowd
Dallas Irrigation Association, President

SUBJECT: Dallas Arboretum WaterWise irrigation system

DATE: October 12, 2007

Irrigation System Details

The new irrigation system for the Dallas Arboretum's WaterWise bed display consists of the following major components:

A Rain Bird® ET Manager control unit that piggybacks onto the existing irrigation controller. The ET Manager receives a programming signal based on local weather data that includes temperature, humidity, solar radiation, and wind. The continually updated programming signal is sent hourly via a wireless frequency provided by WaterLogic™. An on-site rain gauge also measures rainfall in hundredths of an inch. The ET Manager, weather data information, and rain gauge combine to produce a formula based on evapotranspiration. The ET Manager then decides exactly when the plant material needs water and allows the existing irrigation controller to deliver a precise amount of water not to exceed the soil holding capacity, thus preventing over-watering.

Hunter® Pro-series pressure-regulated sprayheads with check valves. The pressure regulation feature delivers the proper amount of water pressure to the nozzle, thus preventing misting and over-spray. The check valves prevent gravity and/or low head drainage of the system when it is inactive, thus reducing water waste.

The sprayheads are equipped with MP Rotator® nozzles. These are low-flow, matched precipitation nozzles that deliver a precise water application that produces high uniformity evenly across the WaterWise bed display. The results are reduced water usage with minimized runoff.

Should you have any questions, please do not hesitate to contact James Dowd @ 972.618.0535.