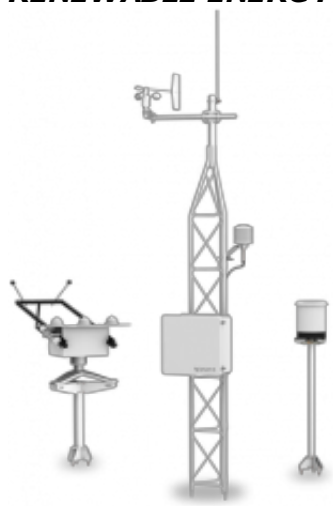




JUNE 2012

Product Solutions

RENEWABLE ENERGY MARKETS



Western Weather Group is expanding their expertise to support the Renewable Energy Markets. As green energy becomes a larger percentage of our national energy production, Western Weather Group and Campbell Scientific are growing to meet the needs of the energy industry. Automated weather stations are being provided to survey, monitor and support renewable energy production. Continued maintenance and support of these field stations are

also part of our services. Western Weather Group will help you design, procure and deploy field data acquisition systems such as the CSP100 Concentrated Solar Technology Monitoring Package.

The CSP100 is a turn-key automated data acquisition system specifically designed to meet CAISO meteorological station requirements of concentrated solar power generating facilities. It is recommended for assessing power plant performance, which requires the best possible solar resource measurements.

The CSP100 is field ready with features to minimize installation time and field wiring errors. Though offered as a turn-key package, nearly every aspect of the system is customizable, including sensors, communications, mounting, and power supply.

As California's Campbell Scientific Representative we are ready to help you with all your renewable energy instrumentation needs. For more information give us a call

In this issue:

- [Product Solutions](#)
- [Knowledge Base](#)
- [Forecast Corner](#)
- [Vocabulary & Acronyms](#)
- [Action Item](#)
- [Coming Soon...](#)

and ask for a quote today.

Knowledge Base

IMPORTANCE OF WATER TRACKING

Outdoor watering accounts for 40 to 70 percent of water used in Orange County. The Irvine Ranch Water District (IRWD) uses an allocation-based conservation rate structure to provide its customers the water they need and promote water conservation. IRWD's billing system relies on accurate weather stations (Campbell Scientific dataloggers) to provide landscape and commercial customers site-specific allocations. The weather stations are located in specific climate zones within the District and calculate Reference

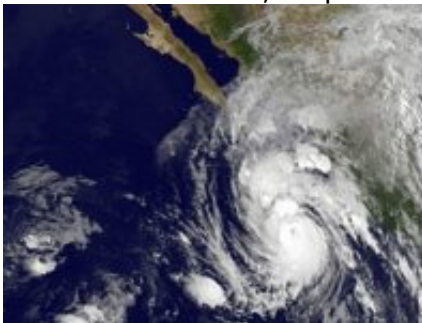
Evapotranspiration (ET_o), the amount of water needed by turf grass to remain healthy. The ET_o values are used in the billing equation. Over 800,000 gallons of water per acre were saved in 2011 compared to water consumption in 1991. Western Weather Group works with the IRWD to ensure the weather station's data are accurate and reliable.



Forecast Corner

2012 HURRICANE SEASON

The 2012 Hurricane Season (May 15 through November 30) is underway. Along the West Coast of the U. S., tropical



storms and hurricanes attract little public attention as the prevailing easterly winds usually push most eastern Pacific storm systems away from North America. Upwelling of cool water along the coast protects California as tropical storms near the Golden State; however, not always. Weather records show a

Vocabulary & Acronyms

WHAT IS THE MEANING OF ...???



CIMIS – You may have heard the term but what does it stand for? **C**alifornia **I**rrigation **M**anagement **I**nformation **S**ystem (CIMIS) is an integrated network of automated weather stations located throughout California. The system is operated by the Calif. Dept. of Water Resources.

CIMIS helps farmers, turf grass managers, municipalities and others develop water budgets for determining when to irrigate and how much water to apply. The CIMIS weather stations are built around the Campbell Scientific dataloggers, the same dataloggers that Western Weather Group installs with all of their automated weather stations. Campbell Scientific dataloggers are rugged reliable and fully programmable making them ideal for long term deployment.



hurricane hitting San Diego with winds up to 95 mph in October 1858. A tropical storm came ashore between San Diego and Long Beach in September 1939 flooding large areas of southern California. The strongest eastern Pacific hurricane ever observed, Linda, was centered 800 miles south of San Diego in September 1997. Some hurricane forecasting models had Linda reaching the California coast. Fortunately it turned eastward. Under the right conditions a hurricane will again hit the State. Thanks to the cold water offshore (which weakens the storms energy) and the easterly trade winds, the risk is rare for the State.

Action Item

ONLINE WEATHER DATABASE

If you have access to one of Western Weather Group's Web Pages then you have access to an online weather database. Check out the weather database the next time you are on the web site. There is a wealth of historical weather information that you can access. A tutorial is also on the web page to learn how to use the database. Historical data from automated weather stations can be downloaded to your local PC in an Excel, PDF or CSV file format using the weather database. The data are viewable in a tabular or graphical format. Extensive improvements for graphing the data are coming shortly.

Coming Soon...



Coming soon will be the Western Weather Group Weather App that will allow users of the Western Weather Group services to view near real-time observations from local automated weather stations in their area on a Smart Phone. Western Weather Group is continually working towards making local weather data easily accessible. This App will provide access of the data from your WWG weather station on a Smart Phone.



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