



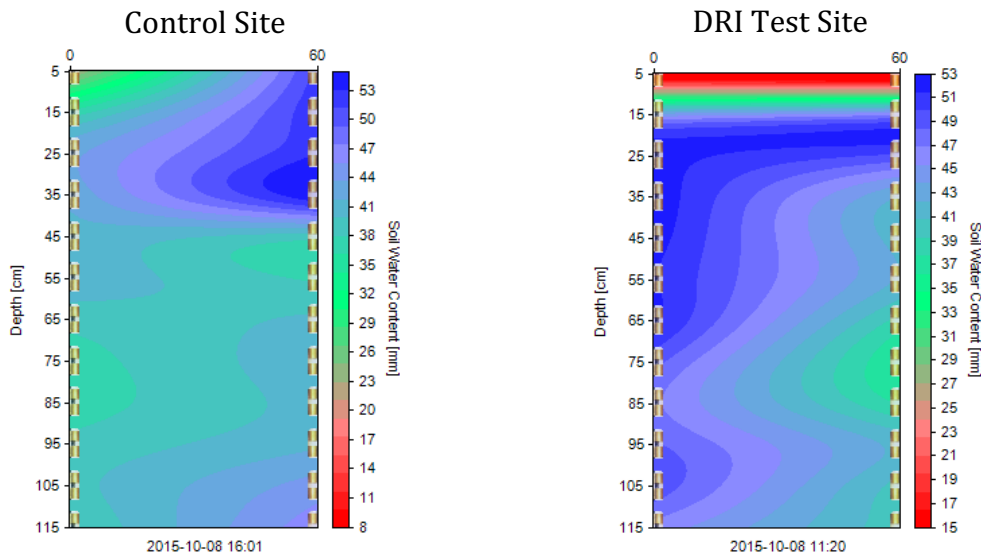
Deep Root Irrigation Trial

Circle K Ranch

Professional Grower Services, LLC installed a test site at Circle K ranch in Elk Grove California.

The trial site monitors soil moisture (soil water content) at a Deep Root Irrigation equipment site and the current irrigation system site in the same vineyard location. PGS installed two test sites. Each site has Sentek Drill and Drop soil moisture probes approximately 30cm apart down to 120cm with a soil moisture sensor at every 10cm for a total of 12 soil moisture sensors. The data is viewed with Sentek's IrriMAX Live web-based software and provides a two dimensional view of both lateral water movement through the soil as well as the vertical movement through the soil.

The trial demonstrated that the DRI test site reached a soil saturation of over 50% soil water content in 4.5 hours versus the Control Test site in 9.0 hours.



Using onsite flow meters, the DRI site demonstrated a savings of 4.54 gallons of applied water to reach a similar saturation point as in the drip control site per vine. The applied water at the DRI site was 2.84 gallons per vine, compared to 7.38 gallons per vine in the drip control site.

Test results will vary depending on site soil type and current irrigation methods.

Jack Coots
President
Professional Grower Services, LLC
www.progrowservices.com
jack@progrowservices.com