ConserWater Vs. Third Party Sensors

In the spring of 2019, an independent trial of ConserWater’s AI soil moisture predictions was conducted in tandem with high quality time domain reflectometry (TDR) soil moisture sensors at a mango farm in the Golan Heights, Israel.

Using ConserWater and TDR sensors side by side provides an effective comparison as both systems utilize volumetric soil moisture (the fraction of water in the soil). Hence no additional unit conversions are required for comparison.

The soil moistures measured by both ConserWater and the sensors are graphed below over a typical soil moisture range (from wilting point to saturation point):

The soil moistures predicted by ConserWater and measured by the third-party sensor are very close, within a 3-4% deviation, well within the accuracy of most irrigation systems. These TDR sensors typically cost $1000+ for each unit. This suggests that ConserWater is a cost-effective and reliable replacement for a high-end hardware soil sensor!