

Tortosa H.O.A.
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Product Monitoring and Application Update

First Application

March 6, after initial product application was complete, sensor moisture measurements and irrigation events were monitored on both the treated and control areas. Due to abnormalities observed in the data, the Acclima irrigation system was programmed to irrigate both sides for ten minutes every 48 hours to maintain the integrity of the turf until the sensor system's credibility could be validated.

On May 16, the system was set to irrigate both sides 'on-demand' via the sensors. Upper and lower thresholds were set at 28% and 22% respectively for both sides. This means when soil moisture depletes to 22%, the system will irrigate for ten minutes. After two hours if moisture is still below 22%, the system irrigates again for ten minutes.

Trial Data

Data collected from May 16 through May 29 shows the following in terms of reduced water usage:

- The Control side irrigated 100 minutes.
- The Treated side irrigated 50 minutes.

Product is also reducing water evaporation from the soil. Measuring percent soil moisture loss from May 22 through May 26:

- The Control side lost .064%/ hr.
- The Treated side lost .031%/ hr.

Product increases the soils' water holding capacity.

- Over the 9 week period directly after the first application (March 9th through May 10th) the Treated side consistently held *at least* 29.5%, routinely varying between 30-33%.
- Over the same time frame, the Control side gyrated between 15.5% and 26% moisture.

Soil salinity, EC, measured in the Treated and Control areas exhibits insignificant change over the course of the study thus far.

Second Application

The treatment side, 1078 sq.ft (.025A), will receive a second application slated for the first week of June. The rate will be the same as the first with delivery time set according to distributor's discretion of 20% product every 24 hours for five consecutive days. Monitoring will continue on a monthly basis.

Layperson Summary

GC50 increased the soil's ability to retain water. When solution was applied at the recommended rate, irrigation time needed to adequately water turf was reduced by 50%.



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