

REPRIEVE



SHUTTLE 14

ULTRA-PERFORMANCE WETTING AGENT



- ✓ NON-IONIC
- ✓ TREATS SOIL HYDROPHOBICITY
- ✓ LOWERS SURFACE MOISTURE VALUES
- ✓ INCREASES WATER PENETRATION
- ✓ NON-PHYTOTOXIC

Reprieve is a performance soil surfactant formulated specifically to increase plant health by treating soil hydrophobicity and promoting uniform moisture access on a rootzone-level. Reprieve excels at treating localized dry spots (LDS) and relieving stress in drought-stricken turf.

Reprieve is best applied as part of a managed application program. Consult with your Shuttle14 specialist to determine your best application approach.

CEC VALUE	APPLICATION RATE
CEC <8	30Z/1000FT2 90ML/100M2
CEC >8	20Z/1000FT2 60ML/100M2

Quench should be watered in within 18 hours of application to ensure the product is properly placed in the soil profile. There is no need to immediately water behind the application of Quench as Quench is non-phytotoxic.

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WARRANTY: SELLER WARRANTS THAT THIS PRODUCT CONFORMS TO ITS CHEMICAL DESCRIPTION AND IS REASONABLY FIT FOR THE PURPOSE STATED ON THE LABEL WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL CONDITIONS OF USE; BUT NEITHER THIS PRODUCT NOR ANY OTHER WARRANTY OF MERCHANTABILITY OR FITNESS OF A PARTICULAR PRODUCT EXPRESSED OR IMPLIED, EXTENDS TO THE USE OF THIS PRODUCT CONTRARY TO LABEL CONDITIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE TO THE SELLER AND THE BUYER ASSUMES THE RISK OF ANY SUCH RISK.

FINAL REPORT –

DOUG KARCHER PH.D, UNIVERSITY OF ARKANSAS

WETTING AGENT PERFORMANCE ON A SAND-BASED PUTTING GREEN

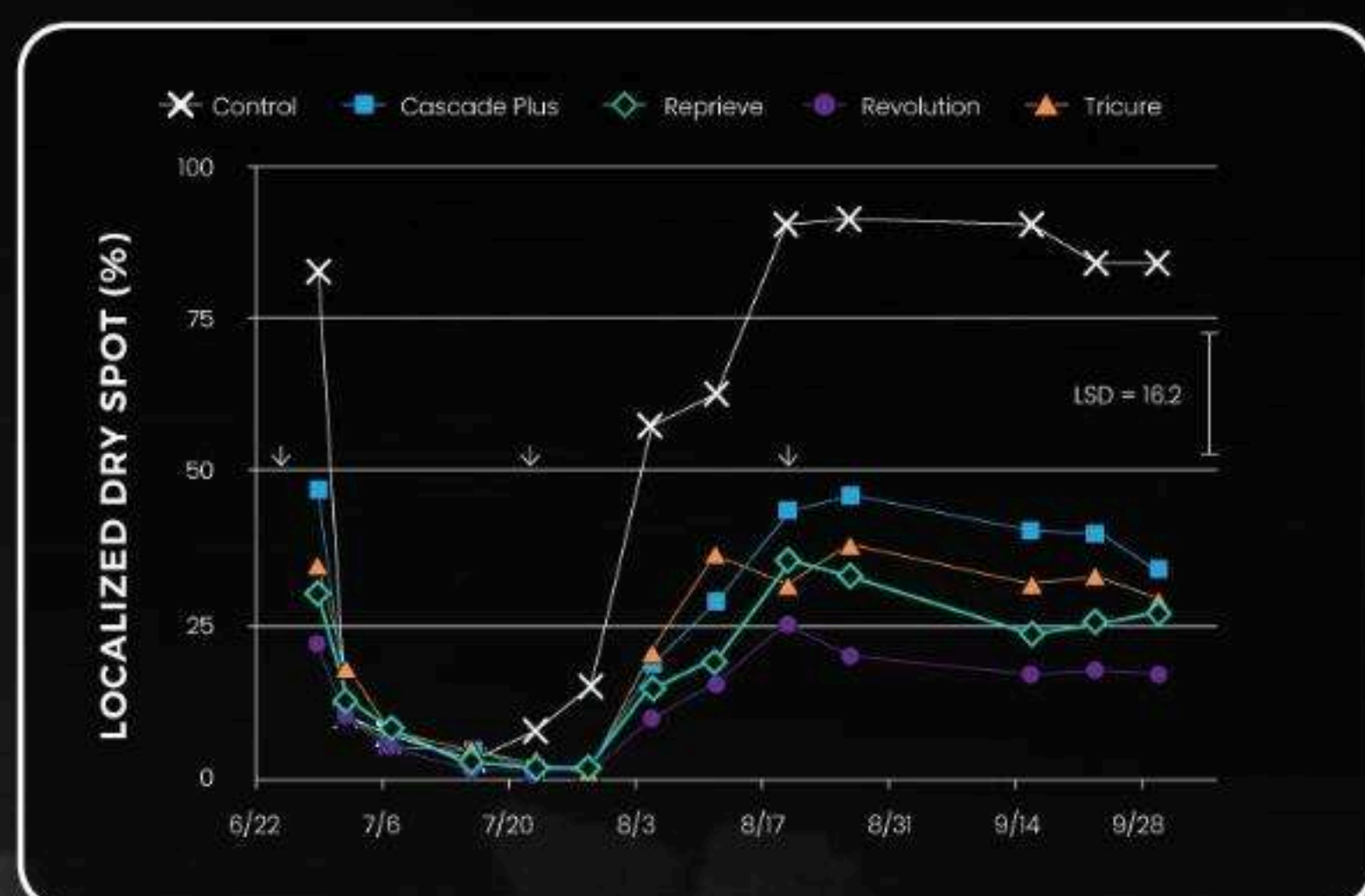
Objective: Assess the effects of various wetting agents on localized dry spot, turf quality, and moisture distribution in a sand-based putting green.

Treatments: The experimental area was sectioned into 6 square foot plots. Each wetting agent treatment was applied to four, randomly selected replicate plots. Treatments occurred on a monthly basis from June 25 through August 25 and were applied with a CO2 powered boom sprayer. After application, treatments were irrigated into the root zone with 0.15" of water.

KEY EVALUATION HIGHLIGHTS

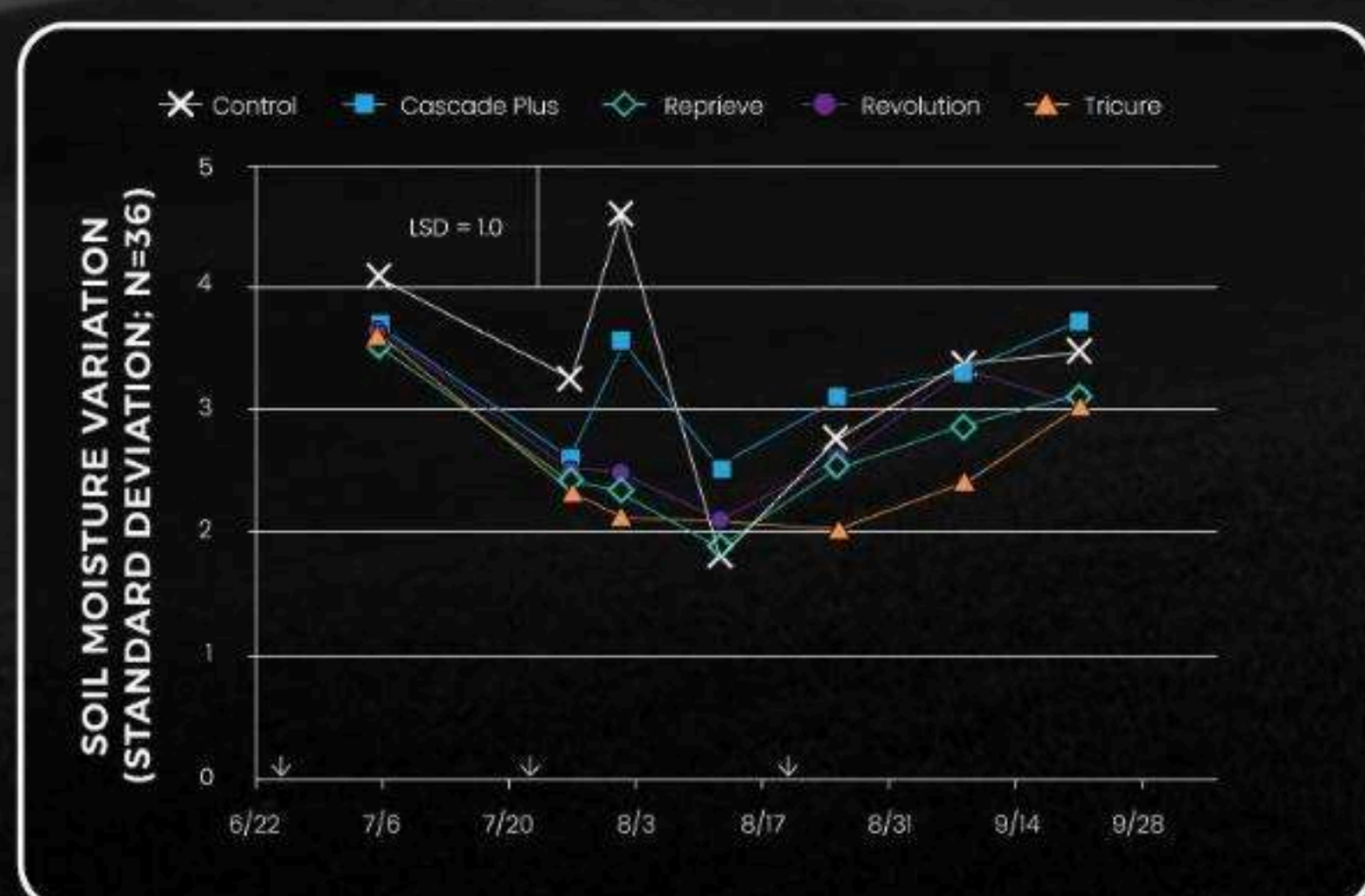
LOCALIZED DRY SPOT FORMATION:

"Statistically, Reprieve and Revolution has the least amount of LDS on every evaluation date."



SOIL MOISTURE:

"When averaged across the entire study, Tricure, Reprieve, and Revolution had the most uniform soil moisture conditions at the 3-inch sampling depth."



Evaluations: Wetting agent evaluations were made according to the following: Localized dry spot formation, turf quality, turf color, average soil moisture, and soil moisture uniformity.

Methods: Conducted on an 8-year-old 'L-93' creeping bentgrass, sand-based putting green. Green was constructed according to USGA recommendations. The study was conducted from June through September 2010.

Wetting Agent Treatments: There were five wetting agent treatments: control, Lesco Wet Elite (applied at 6oz/1000ft²), Revolution (6oz/1000ft²), Tricure 6oz/1000ft² and Cascade Plus (8oz/1000ft²).



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