Product: SmartSoil Hydrogel

Research and Development

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TEST LOCATION: Golf Course					
⊠ Tee Box	☐ Fairway	\square Putting Green	☐ Nursery	\square Rough	□ НОА
21150 Dumetz Rd,					
Woodland Hills, CA 91364					
(909) 568-5643					
Curated by: Roy Crow, Golf Course Superintendent					
roy@woodlandhillscc.org					



TEST LOT: 1,800 sq ft (Long Rectangle Tee Box) & 800 sq ft (Small Half Circle Tee Box)

GRASS/TURF: 419 Bermuda / Bent

mix

Irrigation Source: Recycled Water

Install Date: 06/07/2024

Smart Soil Hydrogel: 8.345 lb

(1 sq ft x 0.30 oz hydrogel)

Soil to hydrogel ratio = 100: 0.19

Post-rinse: Yes

Equipment Used:

Application: Backpack SprayerPhotograph: DJI Fly Drone

TEST PARAMETERS:

- **IX** SURFACE RUNOFF CONTROL
- **⋈** IRRIGATION REDUCTION
- **INCREASE SOIL MOISTURE RETENTION**
- **☒** RETENTION OF GREEN MASS
- **☒** GREEN MASS RECOVERY
- **☒** AID GERMINATION
- NUTRITION PROTOCOL
- **SOIL STABILIZATION**





June 26, 2024

high/low: 81/62 Rain: 0 days

Irrigation: 100%

Comments:

SmartSoil Hydrogel has been integrated with the 1,800 sq ft tee box and the 800 sq ft tee box, outlined in purple.

The grass was shaved down to maximize the soil exposure. A post-application rinse was performed.

Beginning on July 3rd, irrigation is expected to be reduced by 50% on the small tee box.

The larger tee box irrigation will remain the same since we are rehabilitating the divots since the area has been having trouble for the past 10 years and the past 3 superintendents could never get grass to grow there.





July 8, 2024

Weather average: high/low: 92/63 Rain: 0 days

Irrigation: -50% effective July 3, 2024.

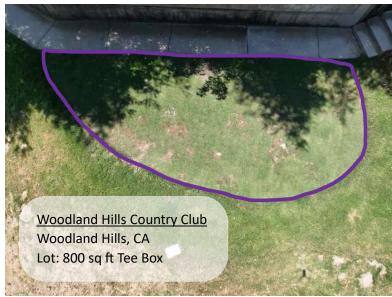
No supplemental irrigation.

Comments:

Irrigation has been reduced by 50% and is expected to remain at this rate for the next 5 years in the 800 sq ft tee box.

The larger tee box can already be seen progressing and filling out the patches. Once it is repaired, its irrigation can also be turned down by 50%.





July 16, 2024

Weather average: high/low: 90/65 Rain: 0 days

Irrigation: -50% effective July 3, 2024.

No supplemental irrigation.

Comments:

The larger tee box's patches have been filling out and the left portion that has a thinner green mass has started to increase its production of new grass. The super cut the irrigation on the big tee from 28 minutes down to 15 minutes since the tee was recovering quickly.

The smaller tee box is maintaining its green mass at a 50% irrigation reduction rate.





July 22, 2024

Weather average: high/low: 93/66 Rain: 0 days

Irrigation: -50% effective July 3, 2024.

No supplemental irrigation.

Comments:

Due to the long tee box's recovery more and more players have started to use it and it has resulted in more divots. Players will line up in the same spot on the tee due to trees blocking the direct pathway to the hole which creates this line down the middle of the long tee box.

The small tee box is at a 50% irrigation reduction rate even during the hottest months here in California.





July 29, 2024

Weather average: high/low: 91/62 Rain: 0 days

Irrigation: -64% effective July 3, 2024.

No supplemental irrigation.

Comments:

The larger tee box is nearly fully recovered. On July 26th the irrigation on the big tee was reduced from 15 minutes down to 10 minutes. So it went from 28 minutes of watering down to 10 minutes which means we had a 64% decrease in their irrigation schedule for this specific tee.

The smaller tee has been at a 50% irrigation reduction rate since July 3rd and is being maintained at those rates without the need for supplemental irrigation.

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