



Trial Background:

This independent trial was performed by Turfgrass Disease Solutions, LLC. <http://turfgrassdiseasesolutions.com>

The purpose of the trial was to evaluate color and quality response to treatments of ReeCourse. In addition to the “untreated control ” area there were three other treatments:

- **ReeCourse Only** - (2 gallon per acre initial treatment with 1 gallon per acre monthly thereafter).
- **ReeCourse** (2 gallon per acre initial treatment with 1 gallon per acre monthly thereafter) **plus a chemical fertilizer application** at 0.05 pound nitrogen per 1,000 square feet (this is an 80% reduction in chemical fertilizer to the full treatment below).
- **Chemical Fertilizer Only** at 0.25 pound nitrogen per 1,000 square feet alone (standard fertilizer was 28-8-18 as was used in the above treatment)

The trial period was five months running from June – November 2012. Treatments were applied in June, July, August, and September 2012 with additional data gathered in October and November 2012. Treatments were replicated five times in a randomized block design.

Results:

The overall result was a clear increase in quality and color when ReeCourse was applied and compared to the untreated control.

When **ReeCourse only** was applied and when **ReeCourse plus the chemical fertilizer** was applied, the results were similar quality and color levels (i.e. there was no statistical difference) as the full treatment of the chemical fertilizer alone on random rating dates. ReeCourse with the fertilizer at 0.05 pound nitrogen per 1,000 square feet (80% reduction in chemical fertilizer) improved the color on all of the rating dates during the scheduled application program.

ReeCourse Golf Conclusions:

ReeCourse only or **ReeCourse plus a chemical fertilizer** (at an 80% reduced amount) generated similar results to that of the full chemical fertilizer alone treatment. Why is this significant? This means that use of ReeCourse can “ReePlace” or significantly reduce the need for chemical-based fertilizer, thus reducing both treatment costs and chemical use.

The turf saw no injury or stress from the application of ReeCourse during the trial period. Therefore, the product is not an agronomic risk to the turf.

ReeCourse plays an important role in reducing a golf course’s dependence on chemical-based fertilizer while maintaining the course’s color and quality expectations. Golf course superintendents and management companies understand the need to implement “green” initiatives and “sustainability” practices in order to reduce the chemical footprint on the property and what runs off into waterways. ReeCourse Formulas are all-natural soil microbial products that help address and support these efforts.

Please contact SumaGreen to discuss the trial results.

Table 1. Turfgrass Quality as impacted by various biostimulant treatment, 2012.

Rating Date					6/18/2012	7/16/2012	8/20/2012	9/13/2012	10/15/2012	11/9/2012
Rating Type										
Days After First/Last Applic.					0 0	28 28	63 35	87 1	119 33	144 58
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
2	ReeCourse	2 gal/a		A	7.0	6.8	7.20	7.10	7.0	6.96
	ReeCourse	1.0 gal/a		BCD						
3	ReeCourse	2.0 gal/a		A	7.0	7.6	7.80	7.96	7.0	6.70
	28-8-18	0.05 lb N/1000 ft ²		ABCD						
	ReeCourse	1.0 gal/a		BCD						
4	28-8-18	0.25 lb N/1000 ft ²		ABCD	7.0	7.2	8.30	8.16	7.0	6.76

* Treatments were applied on 18 June (A), 16 July (B), 20 August (C) and 12 September (D) 2012.

** Turfgrass quality was rated on a 0 to 10 scale where 7= acceptable quality and 10= superior quality.

Table 2. Turfgrass color as impacted by various biostimulant treatment, 2012.

Rating Date					6/18/2012	7/16/2012	8/20/2012	9/13/2012	10/15/2012	11/9/2012
Rating Type										
Days After First/Last Applic.					0 0	28 28	63 35	87 1	119 33	144 58
Trt No.	Treatment* Name	Rate	Rate Unit	Appl Code						
2	ReeCourse	2 gal/a		A	5.0	5.6	4.2	5.00	5.0	5.0
	ReeCourse	1.0 gal/a		BCD						
3	ReeCourse	2.0 gal/a		A	5.0	6.2	5.8	5.90	5.0	5.0
	28-8-18	0.05 lb N/1000 ft ²		ABCD						
	ReeCourse	1.0 gal/a		BCD						
4	28-8-18	0.25 lb N/1000 ft ²		ABCD	5.0	6.2	6.4	6.64	5.0	5.0

* Treatments were applied on 18 June (A), 16 July (B), 20 August (C) and 12 September (D) 2012.

** Plots were rated for turfgrass color on a 0 to 10 scale where 5= color of untreated surrounding turfgrass.

Contact SumaGreen for a Free Demonstration on your course to see the results first hand.

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