



# When Managing Turf Recovery . . . . . . Think Soil Nutrition!

The Sanctuary Organic Products provide carbon rich organic fertilizers from protein meals and carbohydrates that stimulate the natural soil microbes. This active microbial system provides the catalyst for delivering these nutrients to the turf. This nutrient delivery system translates into a sustainable system that promotes turf recovery, rooting, stress tolerance and overall improved turf resilience. The use of Sanctuary products provides the catalyst for this sustainable nutrient delivery system.

## Research Protocol:

This research project illustrates the many agronomic benefits of the Sanctuary Organic Products to shorten the turf recovery time after aeration.



## In Conclusion:

The Sanctuary 12-2-12 organic based product reduced the aeration recovery time by 10 days when compared to a traditional chemical turf fertilizer. The average recovery time for Sanctuary 12-2-12 was 16 days as compared to 26 days for the traditional product. By reducing this recovery time, this provides the opportunity to increase round revenues.

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## Objective:

To compare the aeration recovery time of a standard traditional chemical fertilizer verses several Sanctuary organic products. The Sanctuary products include an all-natural, an organic-based and a natural-based product. Plus, the project examined the agronomic benefits of adding Sanctuary bio-stimulant products to the plots to determine any advantages to improving turf recovery time.

## Aeration Recovery Protocol:

**University Research:** Colorado State University

**Site:** Harmony Club in Timnath, Colorado

**Evaluation Criteria:** Turf Recovery Time  
After Aeration

**Turf Type:** 007 Creeping Bentgrass

**Soil:** USGA Green

**Application Method:** Liquid Bio Stimulant  
Broadcast Spray + Granular Fertilizer Product

**Application:** All products were applied on  
September 22, 2008 after aeration

**Experimental Design:** Randomized Complete Block  
with a minimum of 3 replications

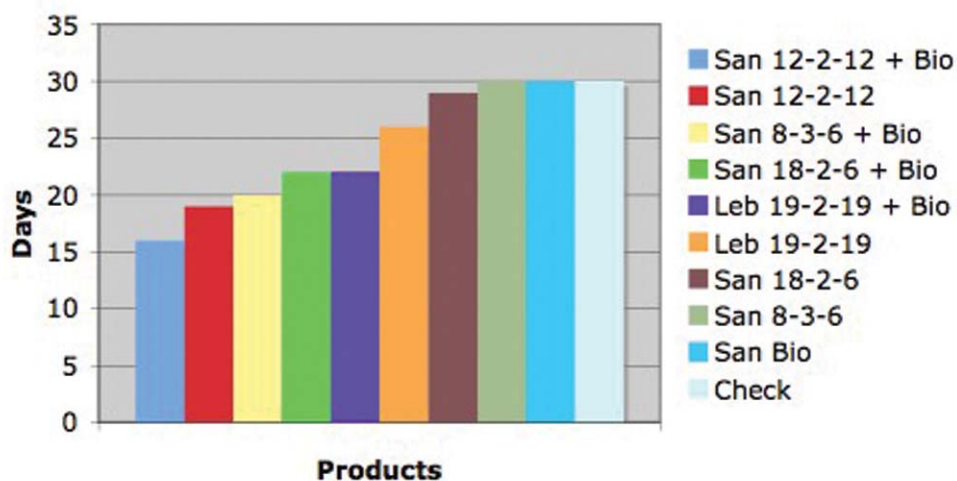
**Treatments:** After Aeration 0.8 lbs of nitrogen was  
applied. This included three organic products: Sanctuary  
8-3-6, Sanctuary 12-2-12, and Sanctuary 18-2-6. And,  
a traditional chemical fertilizer was selected -- Lebanon  
19-2-19. In addition, a combination of Sanctuary  
Resilience and Tea bio-stimulant products were sprayed  
post aeration to half of each plots. The recovery was  
based on measuring the aeration holes daily for 1 month.  
This data was compiled for all the products in the plots.

## Results:

This trial illustrates the benefits of combining Sanctuary granular and bio liquid products to reduce the aeration recovery time when compared to a traditional fertilizer standard. The Sanctuary 12-2-12 alone or with the bio stimulant combination provided the best recovery time of 19 days and 16 days respectively. This organic method surpassed the traditional standard by 10 days. The traditional chemical fertilizer standard required 26 days to recover. This recovery time was

reduced to 22 days when in combination with the Sanctuary bio stimulant products of Tea and Resilience. The chart provides an overview of all the products in the plots.

**Fall Aeration Results**



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