



# BioFlora®

# Case Study

*Nature Knows Best*

## Yellow Field Corn

### Overview

**Crop Tested:** Yellow Field Corn

**Date of Trial:** May - November, 2011

**Planting Date:** 5/9/2011

**Planting Population:** 34,000

**Harvest Date:** 11/30/11

**Purpose of Trial:** To determine which of several applications of GOgreen® would increase weight and yield while lowering moisture levels in corn on both pH challenged and area-typical pH soils.

**Location:** Yuma, Colorado

**Conductors:** Irrigation Research Foundation (IRF) and BioFlora®

**Methodology:** The Control Field and BioFlora® Field received the same fertilizer and herbicide applications throughout the trial (see 'Methodology' section).

There were four separate GOgreen® applications applied to the BioFlora® Field, each with different product rates and application times (see 'Results' section).

**Results:** The scientific testing conducted using GOgreen® demonstrated improved crop production on corn in both soil types, improvement of lowered moisture and weight data as well as improved yield (see 'Results' section for further information).

### Methodology

Both the Control and BioFlora® Fields received the following fertilizer treatment:

Fertilizer	Date	Amount
<b>Starter Fertilizer:</b> 15-20-0 - 2.0s - 0.27 Zn	5/9/11	18 gal/acre
<b>Strip Till: Sidedress</b> 9-15-0	4/5/11	8 gal/acre @ 4" 13 gal/acre @ 10"
<b>Through Pivot:</b> 32-0-0	6/19/11	10 gal/acre
	6/29/11	4 gal/acre
	7/2/11	4 gal/acre
	7/15/11	10 gal/acre
	7/19/11	10 gal/acre

Both the Control and BioFlora® Fields received the following herbicide treatment:

Herbicide/Surfactant	Date	Amount
<b>Degree Xtra</b>	5/1/11	2.9 qts/acre
<b>Round-Up</b>	5/1/11	32 oz/acre
<b>Synurgize</b>	5/1/11	1 qt/100 gal H <sub>2</sub> O
<b>Round-Up Weathermax</b>	6/16/11	32 oz/acre
<b>AMS</b>	6/16/11	17 lbs/100 gal/acre
<b>NIS</b>	6/16/11	32 oz/100 gal/acre

## Results

Application Dates	Treatment Protocol	Moisture/ Test Weight	Yield
6/22/11 - 6/29/11	GOgreen® @ 10 oz./acre	15.6/59	182.19
6/22/11 - 6/29/11	GOgreen® @ 8 oz./acre	14.5/58	189.68
6/22/11 - 6/29/11 -	GOgreen® @ 10 oz./acre	13.9/58	179.12
6/22/11 - 6/29/11 -	GOgreen® @ 20 oz./acre	14.3/59	173.78
	Control	18/57	170.03

**Above:** Results on pH challenged soils (8.3 pH)

**Below:** Results on area-typical pH soils (6.9 pH)

Application Dates	Treatment Protocol	Moisture/ Test Weight	Yield
6/22/11 - 6/29/11	GOgreen® @ 10 oz./acre	16/59	193.93
6/22/11 - 6/29/11	GOgreen® @ 8 oz./acre	14.8/59	222.59
6/22/11 - 6/29/11 -	GOgreen® @ 10 oz./acre	14.3/59	228.05
6/22/11 - 6/29/11 -	GOgreen® @ 20 oz./acre	15.6/59	218.93
	Control	17/57	200.90

## Pictures



**Above:** Control (on left) and BioFlora® treated (on right) demonstrates substantial improvement in root zone development. Both the taproot and supporting root hairs are significantly different between the Control and BioFlora® treated plants.



**Above:** Control (on left) and BioFlora® treated (on right) shows improved moisture / weight over the control in high pH soils with GOgreen® applications.

BioFlora®

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