



The GreenSeeker® crop sensing system is a variable rate application and crop vigor mapping system that offers a more efficient and precise way to manage crop inputs such as nitrogen. The system verifies in real-time the amount of nitrogen the soil has made available using complex agronomic calculations called NDVI. The GreenSeeker system then determines a fertilizer prescription for instant application so that you are applying the right amount of nutrients needed by the plant.

Benefits of Using the GreenSeeker System:

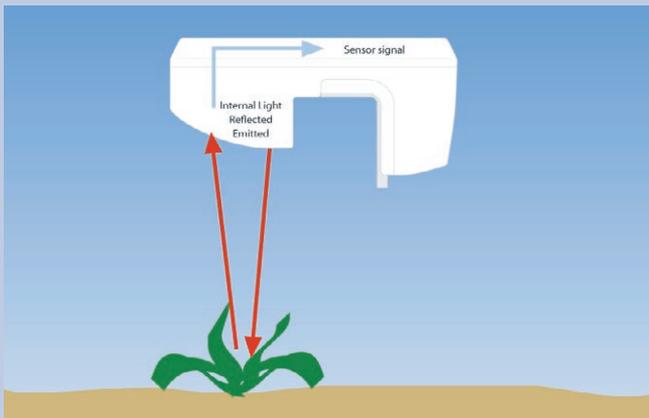
- Improves yields and can increase profits by more than \$15 per acre
- Addresses field variability
- Current crop conditions are used to determine fertilizer rates
- Application rates automatically adjust based on readings taken by the sensors as the sprayer travels through the field
- Can often be used with existing rate control systems
- Works in any weather condition—day or night
- Easy to install, easy to calibrate, easy to use

GreenSeeker[®]
Variable Rate Application and Mapping Systems



Conventional Farm Practices

Farming practices traditionally dictate a consistent amount of fertilizer be applied at a constant rate across the entire field. The rate at which fertilizer is applied is usually based on grid soil sampling or last year's yield maps. Factors such as moisture and temperature, which can cause leaching or denitrification, are often not taken into account when calculating this year's fertilizer application rate.



GreenSeeker System Advantages

A sophisticated sensor located on the underside of the GreenSeeker system emits brief bursts of red and infrared light, and then measures the amount of each type of light that is reflected back at the sensor. These measurements are used by the GreenSeeker system to make real-time decisions about the amount of fertilizer to be applied on a crop as the sprayer travels throughout the field. Soil variability, and differences in plant vigor are consistently measured by the GreenSeeker system so that the plants receive the exact amount of fertilizer they need to thrive.

FmX Display Compatibility

The Trimble® FmX® integrated display functions as the cab interface for the GreenSeeker system. The same display that steers your vehicle can control the rate of fertilizer application, eliminating the need for a second display and helping to reduce cab clutter.



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