Helpful hints for the GreenSeeker Data Logger

The GreenSeeker Data Logger app will draw power from your mobile device.

Special Cables are needed for this function.

To use the app, you will need to purchase a microUSB OTG adapter. The microUSB provided by Trimble is not capable of transferring data; a new micro USB is suggested. The purpose of this cable is to change the function of your phone or tablet from "device" to "host".   The OTG cable can be purchased at in-store Best Buy or can also be ordered online via Amazon, Best Buy or other retail sites. Below are examples:

http://www.newegg.com/Product/Product.aspx?Item=9SIA1HE0NX4646&cm_re=90_degree_micro_usb_adapter-_-9SIA1HE0NX4646-_-Product

http://www.newegg.com/Product/Product.aspx?Item=9SIA24G4NE4325&cm_re=micro_usb_adapter-_-12-329-445-_-Product

DigiKey.com is also a good source of OTG Cables. Here are the Digi-Key part numbers for three USB OTG adapter cables. They are:

1528-1585-ND
TL1067-ND
TL1068-ND

The OTG cable must be plugged into the smartphone, not in the GS HH sensor device.

*Secure the cables.

It is important to secure the cable using zip ties or rubber bands. This is important as the connection point in the sensor can be broken. Please make sure sensor window is not obstructed as shown in the below picture:

*Reading the output.

This app produces three tiers of output.

Last Reading

Plot # - This is a sequential count of trigger pulls.
NDVI – This is the average NDVI of the last trigger pull.
Samples Collected – The number of reading used in the average value produced.

Location Information

Drawn from the mobile devices GPS, if enabled.

Collected Data

Provides the most recent values collected for Plot, NDVI, and CV.

CV is the Coefficient of Variation. A statistical measure of how variable the measurements are. The lower the value the more homogenous the sensed area is. Values above 20 would be considered highly heterogeneous or variable.