

# FAQs

## GreenSeeker Definitions for the Connected Farm™ App

### NDVI

The Normalized Difference Vegetation Index (NDVI) is a standardized index allowing you to generate an image displaying greenness (relative biomass) and measure a crop's overall health. This index takes advantage of the contrast of the characteristics of two bands from a multispectral raster dataset—the chlorophyll pigment absorptions in the red band and the high reflectivity of plant materials in the near-infrared (NIR) band.

### NDVI\_ref

NDVI\_ref, NDVI\_reference also known as Nitrogen (N) Rich Strip, is the maximum amount of N that could be applied to the field. This represents the gauge against whether to apply more or less N.

### NDVI\_fp

FP stands for field or farmer practice. NDVI\_fp measures the current health of a plant or crop. This measure can be taken by the Greenseeker Handheld Crop Sensor or by other means.

### Crop and %N

The %N is an average representation of the amount of N for that crop. The crop name does not represent a specific seed or variety. This number may be changed if an actual %N is known.

### NDVI\_soil

NDVI\_soil represents the amount of nitrogen in the bare soil. The default is set to 0.15.

### NUE

Nitrogen Use Efficiency (NUE) measures the crop's effectiveness of using and absorption of N. The default is set to 55%.

### Max Yield

This represents the maximum amount yield potential of a crop per unit area of land and the seed generation of the plant itself.

### N Rate

N Rate is the estimated fertilizer application rate generated based on the inputs provided.

### Response Index

Response Index is an output that measures the expected response of applying N based on the inputs provided.

### Fertilizer Estimation Chart

This graph is a visual representation of the calculator inputs and how they relate to the N Rate.

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