

IMAGERY AND ANALYTICS

NDVI

Our attention to detail makes our delivery of the Normalized Difference Vegetation Index (NDVI) best in class. Used in isolation or alongside Ceres Imaging's proprietary Chlorophyll Index, NDVI is a long-trusted resource for growers assessing crop canopy vigor.

Rigorous quality control makes our NDVI imagery best in class.

Common uses

- Assessing crop canopy in row crops and individual plant vigor in vineyards and orchards
- Determining plant stand populations and weed density
- Providing year-to-year comparisons to evaluate management decisions
- In vineyards, harvest planning for uniform maturity and preferred quality
- Evaluating long-term effects of stress on perennials and annuals



How it works

Vegetation in a vigorous canopy will absorb visible light and reflect most near-infrared (NIR) light—whereas a sparse canopy will reflect more visible light and less NIR light. The imagery represents these differences in light reflectance using a color classification ranging from red to green, with red indicating the least vigorous crop canopy.

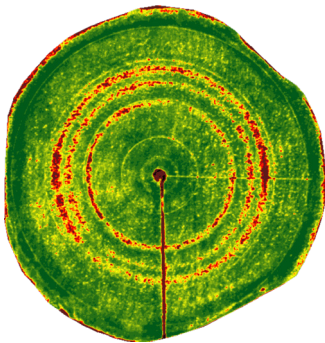
NDVI imagery is most powerful and cost-effective when used in conjunction with Ceres Imaging's Chlorophyll Index, which provides a complementary view of the quality—rather than the density—of the crop canopy. Together, the two types of imagery tell a holistic story of plant health and nutrient availability.



FROM IMAGERY TO ACTION

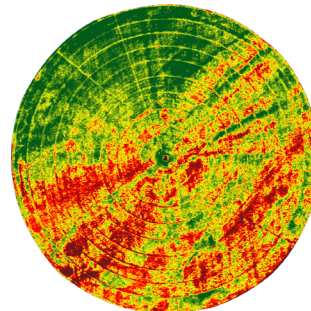
High-resolution multispectral imagery is only the beginning. Our analytics tools help you interpret your data—translating what you can see in your imagery into what you can do about it.

NDVI imagery is included standard in all Ceres Imaging service packages.



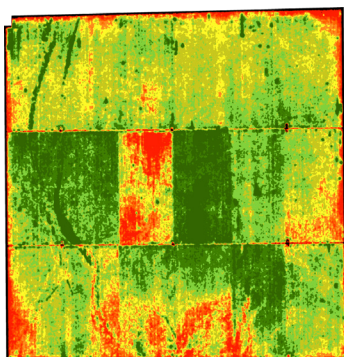
Clogs

The red rings show where a clogged nozzle has resulted in underwatering.



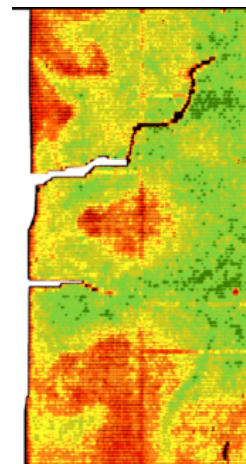
Nutrient deficiency

In this field, stressed areas were found to correspond to areas with an inferior soil type.



Regulator error

The stressed area in the center of this field was caused by improperly set irrigation regulators.



Damaged drip lines

Damage to drip lines in this field resulted in large areas of decreased canopy vigor.

