

2015 IMAGING PACKAGES

SOIL

Bare Soil CIR Image Collection
Soil Differential Index (SDI)
Creation of management zones
for use in soil testing, variable
rate fertility, lime, and seeding

A-La-Carte Options

Individual Scouting

Intensive Scouting
Program

End of Season
helicopter farm tour

2-PASS

V4-V6 CIR Image Collection
V8-VT CIR Image Collection
NDVI created for each
Most effective when used in
coordination with a scouting
program to make management
decisions in the growing
season.

3-PASS

Set yourself up for success. Get
the value of soil management
zones as well as important
plant information throughout
the growing season.

Includes both the soil and the
2-pass vegetative CIR Image
collection and maps



BE IN THE
ZONE

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REMOTE SENSING GUIDE



EARLYBIRD AERIAL SERVICES
AERIAL APPLICATION & REMOTE SENSING



YOUR BEST VALUE

Soil Imaging

We will image your field in the spring, when the ground has thawed, and conditions are closest to planting. Deep tillage may need to be leveled before imaging to reduce shadows from high ridges. With the data acquired in our bare soil images, we create accurate soil zones for your field. Soil testing using these zones overcomes the variability of USDA lines or grid soil sampling. Results can then be used to make decisions on creating management zones for variable rate fertility, lime, or seeding rate. Our infrared imaging and patented algorithm can define these zones more accurately than ever before and give you the confidence to manage every acre precisely.

NDVI's and Scouting

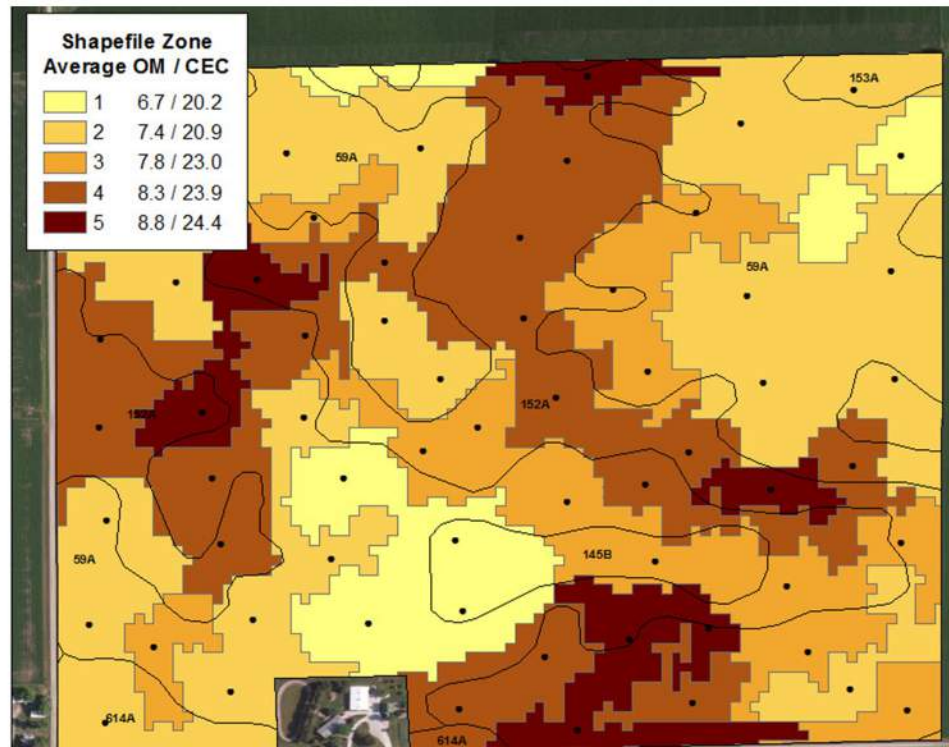
Infrared imaging has the power to show information that cannot be seen with the naked eye. Healthy plants reflect infrared light, while stressed plants begin to absorb it. Using this information, an NDVI is created to show healthy or stressed areas of your field. A color scale is applied to help visualize this: green for high reflectance and red for low.

Scouting is an integral part of our imaging program and an NDVI can help guide you through the field. This is why we've added a scouting option to our NDVI package.

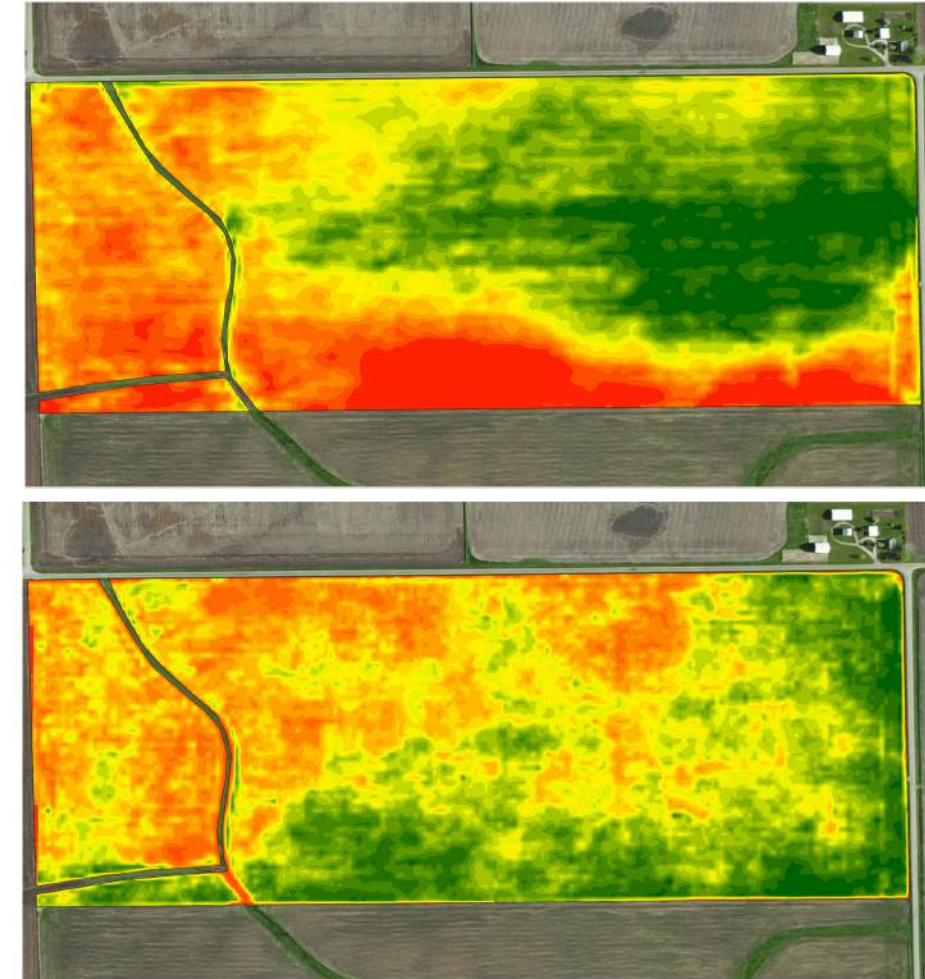
SOIL TESTING

USDA soil lines were generated in the 1970's using computer modeling-based on soil tests. While we are confident in the soil types indicated on the maps, the boundaries reflect the limitations of the technology at the time. In today's world of precision agriculture, there is a need for accuracy that 45 year old data does not fulfill. Likewise, grid sampling does not overcome variability either.

Our research has shown strong correlation between organic matter & cation exchange capacity when soil testing using our zones.



IMAGING VEGETATION



Ideally, the first vegetative image will be taken between V4 and V6. The second vegetative pass will be taken after V8 and before VT. An NDVI will be created from each pass that can be used as a scouting tool. However, high or low reflectance can mean healthy or stressed plants OR higher populations versus lower, so, it is important to ground truth.