

## Aerial Imagery

### Manage your crop production more efficiently with aerial imagery technology

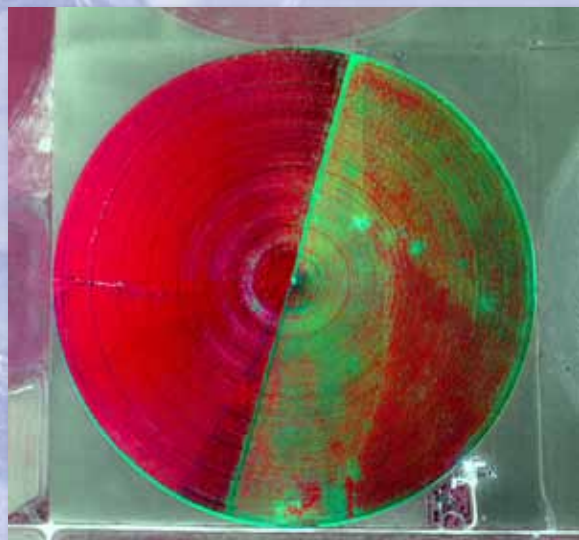
Aerial imagery can expose a great deal about soil and crop conditions. The "bird's eye" view an aerial image provides, combined with field knowledge, allows growers to observe issues that affect yield. Our imagery technology enhances the ability to be proactive and recognize a problematic area, thus minimizing yield loss and limiting exposure to other areas of your field.

Hemisphere GPS Imagery uses infrared technology to help you see the big picture to identify these everyday issues.

Digital infrared sensors are very sensitive to subtle differences in plant health and growth rate. Anything that changes the appearance of leaves (such as discoloration, curling, wilting, and defoliation) has an effect on the image. Computer enhancement makes these variations within the canopy stand out, often indicating disease, water, weed, or fertility problems.

Because of Hemisphere GPS technology, aerial imagery is over 30 times more detailed than any

commercially available satellite imagery and is available in selected areas for the 2010 growing season. Images can be taken on a scheduled or as needed basis.



*A picture with this exact resolution is available in your area for as little as \$1.00 an acre. (Better than 3 ft resolution).*

### Benefits:

- Quick turnaround and the ability to cover large acreage at a low cost
- Quickly address fertility problems
- Improved irrigation and fertilizer management for better yield and lower input costs
- Better disease identification and treatment limiting the exposure to other areas in the field
- Automatic zone map creation for variable rate applications

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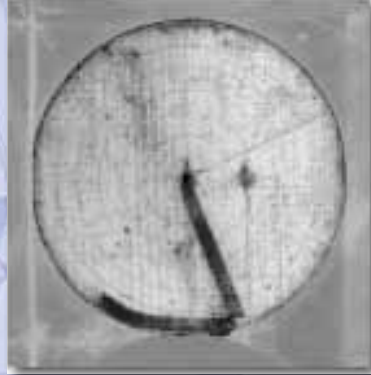
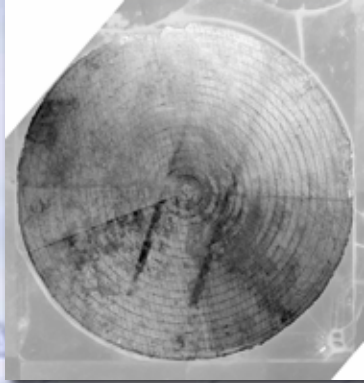
### Authorized Representatives

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# Advanced Aerial Imagery

Hemisphere GPS' advanced aerial imagery provides a snapshot of various crop conditions such as crop stress and herbicide damage, along with providing variable rate images for \$1.00 - \$2.50 an acre with 24-hour turnaround.

## Herbicide Damage

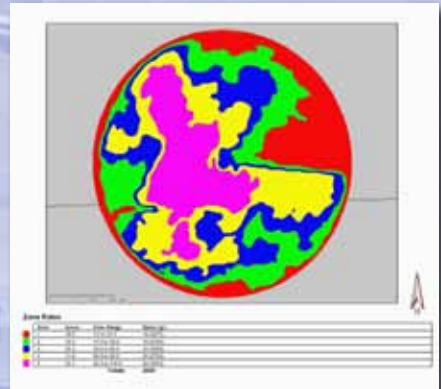
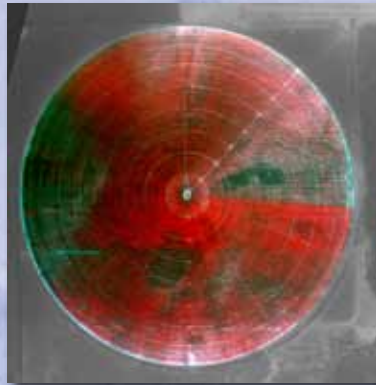


Crop damage acreage can be accurately calculated using imagery.

The example to the left displays poor plant health in black and good plant health in white.

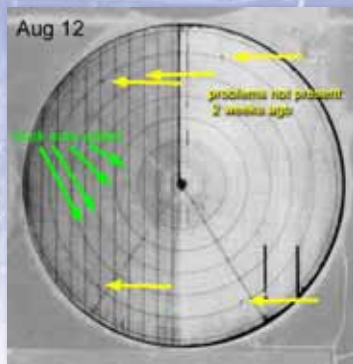
Aerial images provide a snapshot of the crop condition.

The example on the right shows healthy crop conditions in red and less than healthy conditions in green. These snapshots of crop variations can then be turned into variable rate prescription maps (PMaps), which is shown on the right.



## Variable Rate

## Crop Stress



Imagery can be used to identify crop stress over a period of time. In the images to the left, the problem areas identified with yellow arrows show potential plant damage (e.g. disease, insects, etc.). The solid black lines at the 4:00 position show areas of no plant growth.