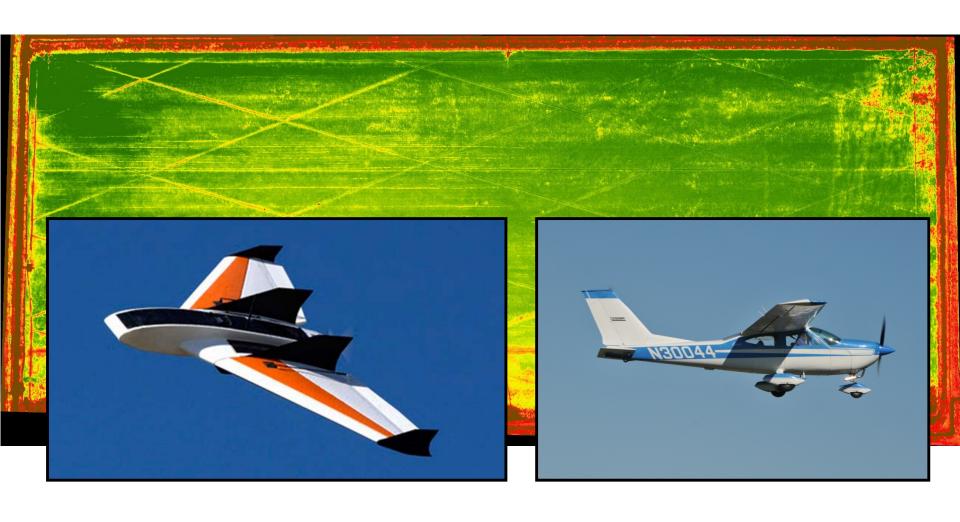




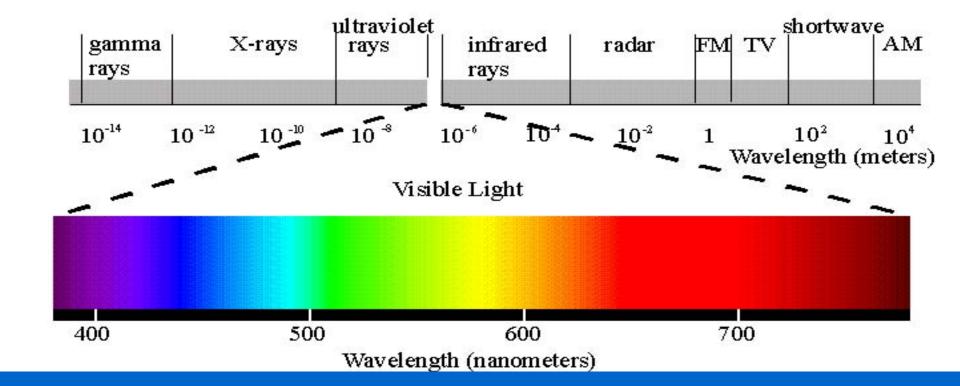
# Air Data Solutions Crop Stress (NDVI) Mapping

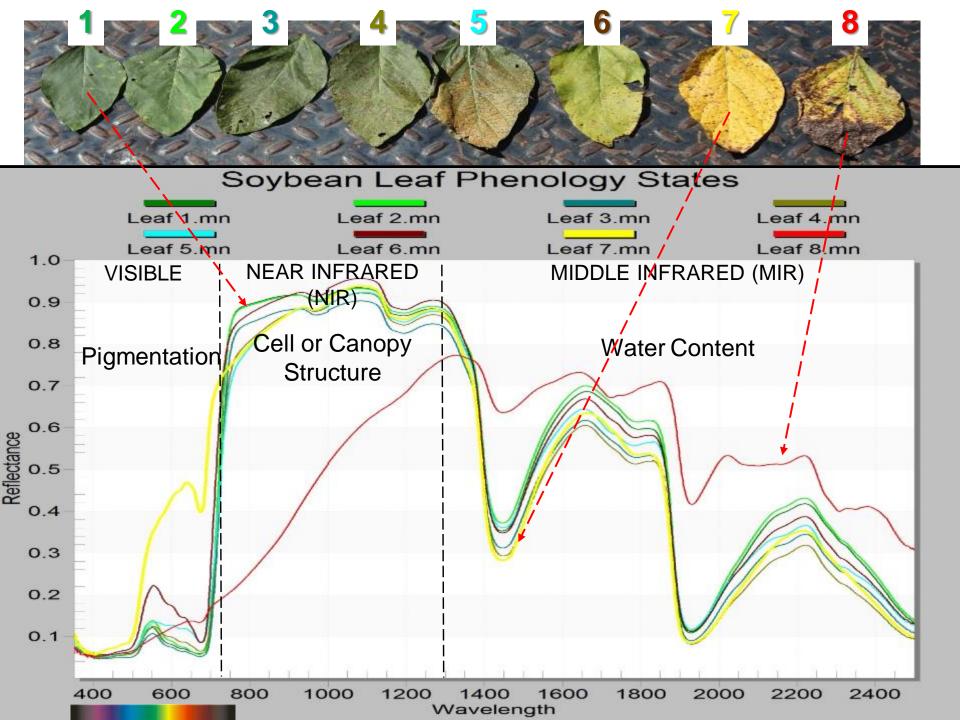




### What is NDVI Mapping?

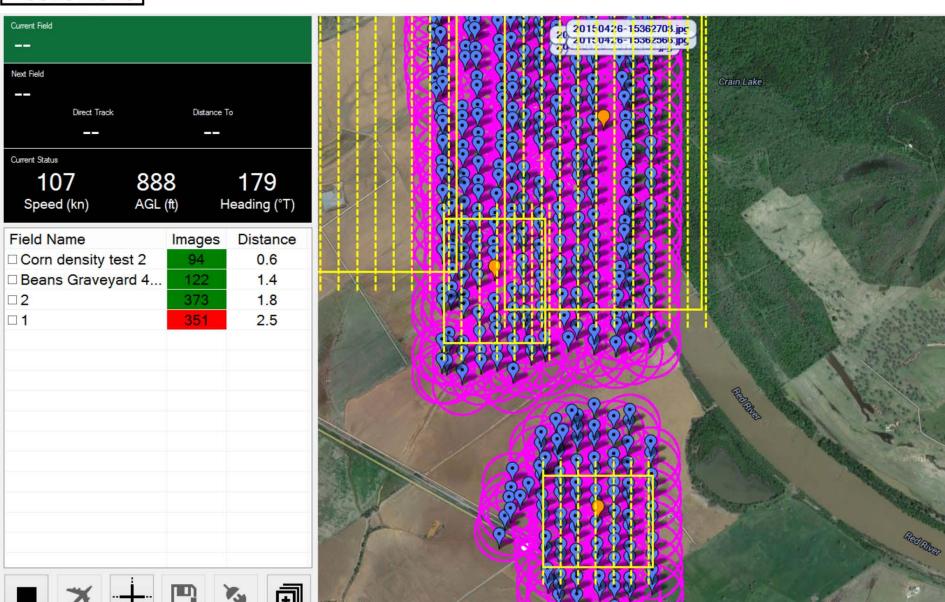
The Human Eye only senses energy in what we call the VISIBLE portion of the electromagnetic spectrum





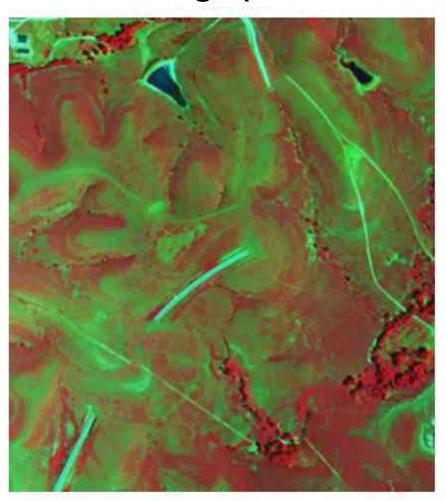


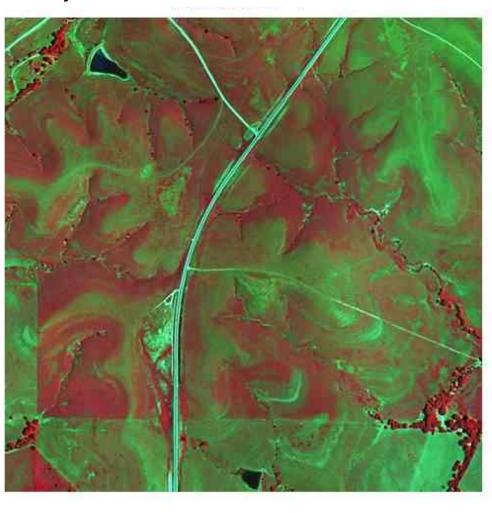
## **Air Data Solutions**



## STITCHING (LEFT) VS. ORTHOMOSAIC (RIGHT) OF 388 IMAGES

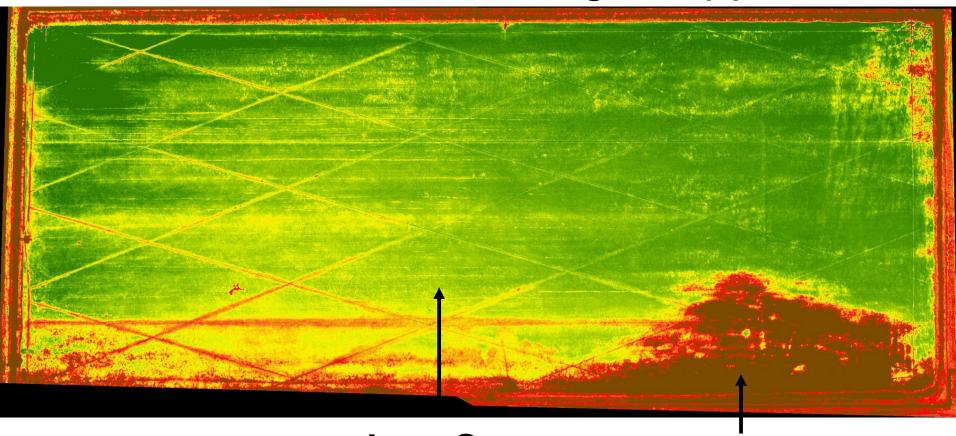
Stitched Image (Not Orthomosaic) Orthomosaic





## AR DATA SOLUTIONS

## Late Rice – August Aerial Variable Rate Nitrogen Application



Late Season Yellowing (Low Fertility)

**Pump Water** 

# Late Rice – August Aerial Variable Rate Nitrogen Application



Low Soil pH releases aluminum that ties up (chelates) phosphorus And creates a nutrient deficiency resulting in underdeveloped roots.



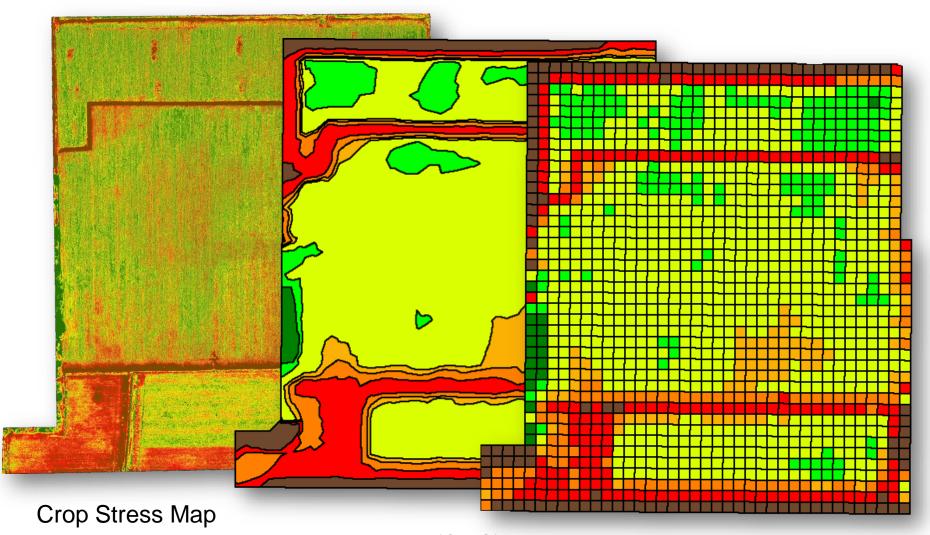
### **Air Data Solutions**

#### **Variable Rate Aerial Applications**





## Variable Rate



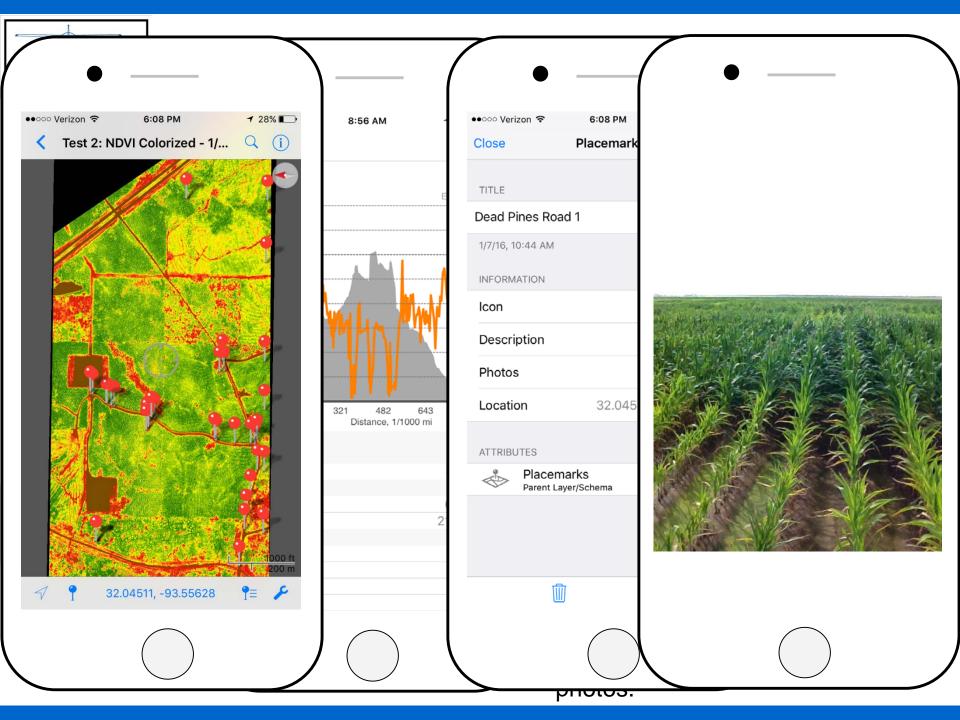
Zone Map (SMS)

Prescription Map (SMS)



## **Air Data Solutions**







## Benefits:

- 1. Feed the crop when it needs it.
- 2. Push the potential
- 3. Reduce inputs in low production areas
- 4. Spot disease, pests, and stress early
- 5. Locate source of problem
- 6. Forecast yield potential

## Recommendations



#### Flight I

- Early after emergence (Mar-Apr)
  - A. Plant density and replants
  - B. Use as scouting map for tissue and soil sampling
  - C. Determine 2<sup>nd</sup> application of variable rate nitrogen

#### Flight 2

- 2. Mid-Season (May-July)
  - A. Determine effectiveness of applications
  - B. Use as scouting map for pest and weed infestations
  - C. Variable rate PGR for cotton, or pesticide and herbicide applications
  - D. Forecast yield potential

- 3. Late Season (July-Aug)
  - A. Monitor irrigation effectiveness
  - B. Use as scouting map for pest and weed infestations

Flight 3

- C. Burn down variable rate applications
- D. Forecast yield potential
- E. Insurance Claims, accurate zoning of affected acres



## Air Data Solutions 318-471-2456

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