

Brent Johnson-Labre Crop Consulting



www.fieldimagery.com www.gpssoilsampling.com

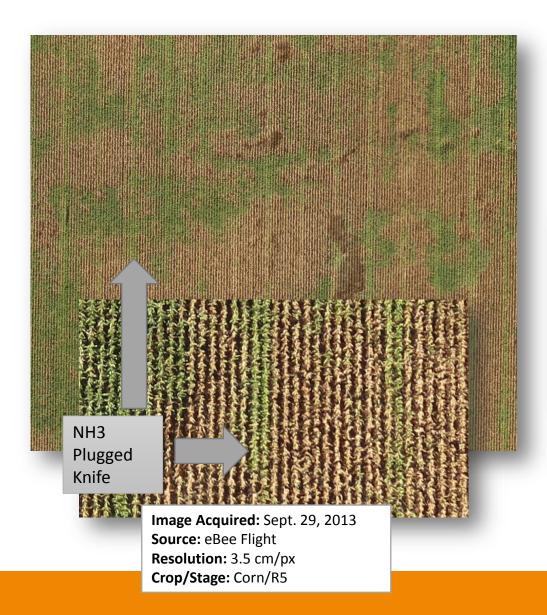
Image Differences

Video

Pictures







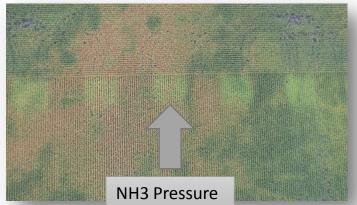
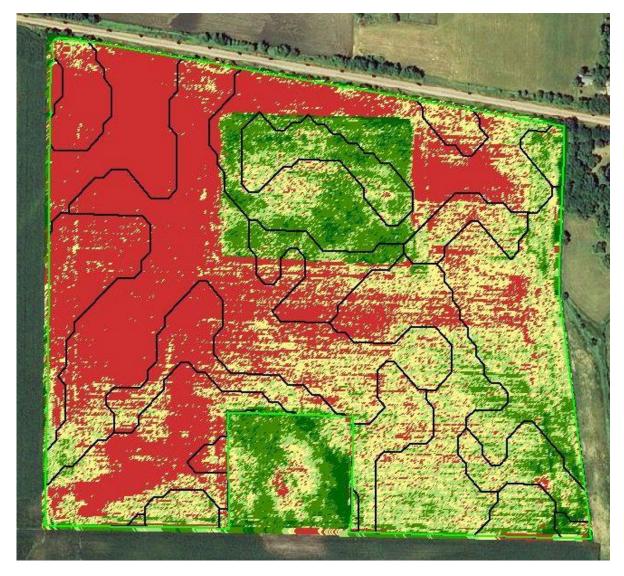


Image Acquired: Sept. 7, 2013

Source: eBee Flight **Resolution:** 3.5 cm/px **Crop/Stage:** Corn/R4







- Aerial Pictures
- Farmsteads
- Equipment



Crop Scouting





How can I use this tool?

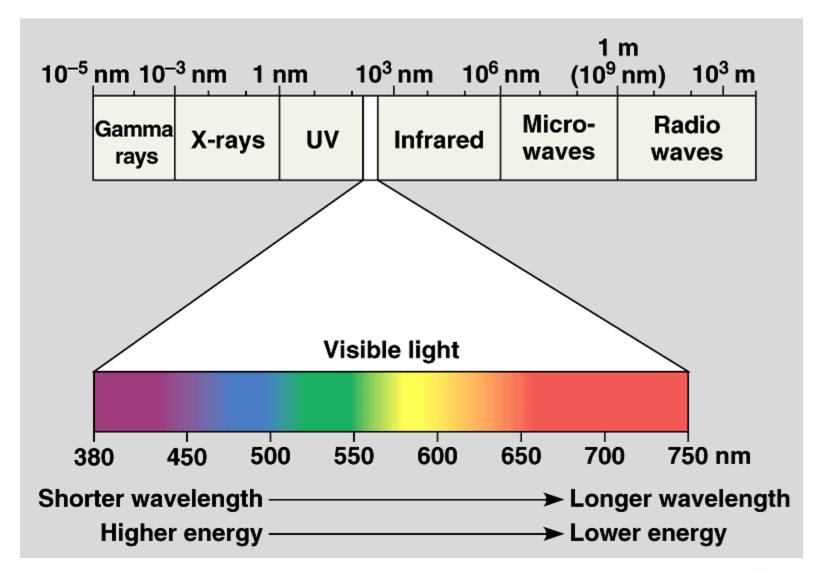
How do I make \$?

• So what's so hard?

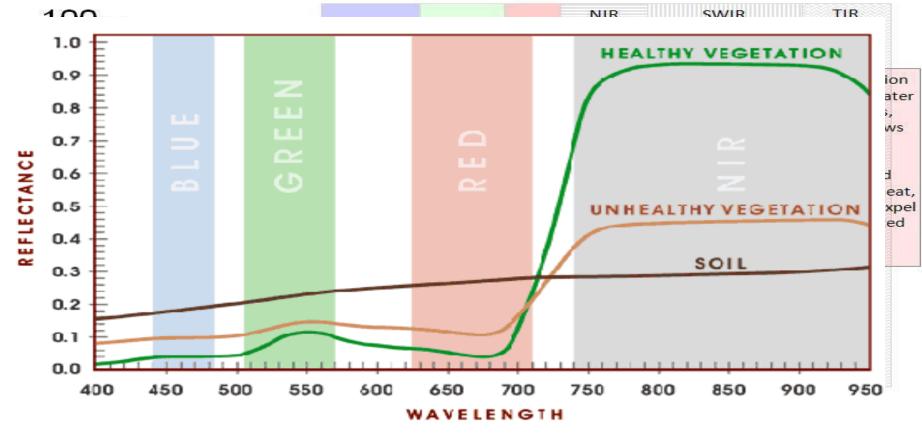












vvaveiengin (µm)



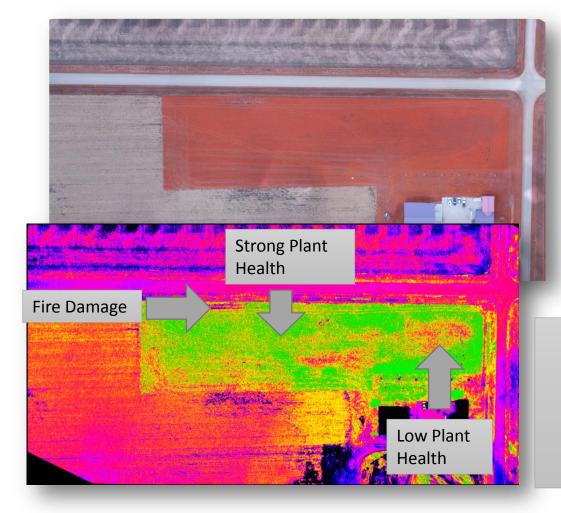


Image Acquired: Oct. 8, 2013

Source: eBee Flight Resolution: 3.5 cm/px Crop/Stage: Alfalfa

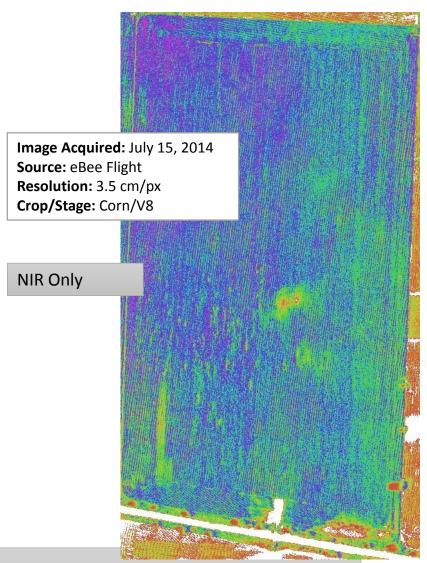
$$NDVI = \frac{(NIR - VIS)}{(NIR + VIS)}$$

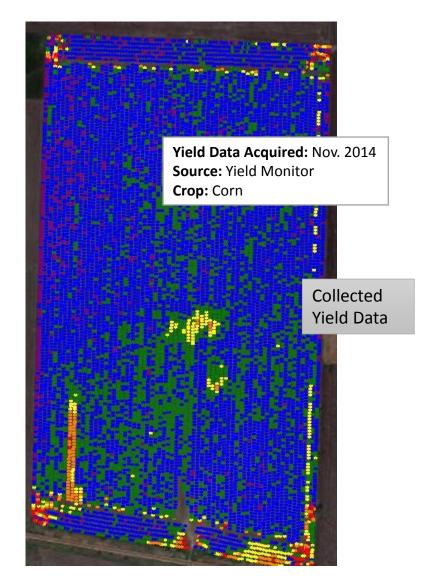
Benefits:

- Size and Location of Stressed Area
- Identify Zones
- Create Custom Treatments
- Track Progress of Health

VIS = spectral reflectance measurements acquired in the visible NIR = spectral reflectance measurements acquired in the near-infrared regions







Benefits:

- High Resolution Yield Map
- Make Marketing Decisions
- Plan Harvest Logistics
- Anticipate Insurance Claims



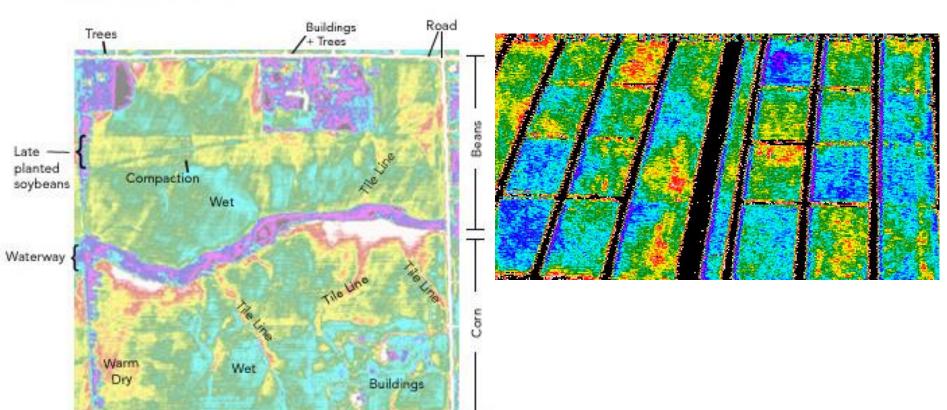
- Plant Identification
- Population
- Vegetation Health
- Beyond the Visible
 - Near-Infrared
 - Thermal-Infrared
- Single Band Analysis
- Multiple Band Analysis
- Per Plant measurements
- Real Follow-thru on data observations





May 24th - Bare Soil

Thermal Imagery



http://airscout.com/demo/maps/

Brian Sutton/Air Scout





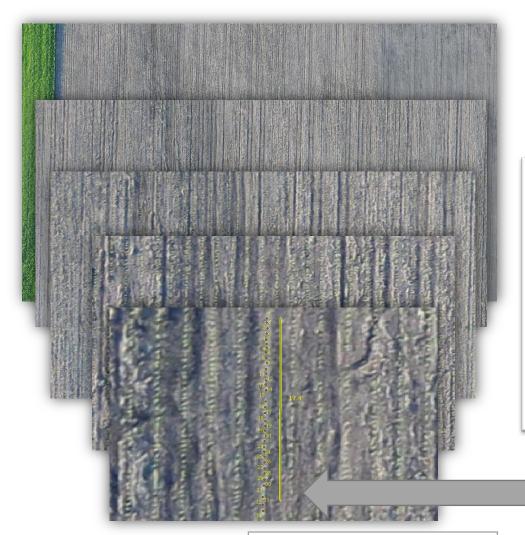


Image Acquired: June 10, 2013

Source: Scout Camera **Crop/Stage:** Corn/V3



Image Acquired: June 6, 2013

Source: eBee Flight Resolution: 3.0 cm/px Crop/Stage: Corn/V2-V3

Method of Calculation:

- Corn spaced in 30" rows
- 17.4' represents 1/1000 acre
- 32 plants counted in 17.4'
- Population in area is 32,000 seeds/acre

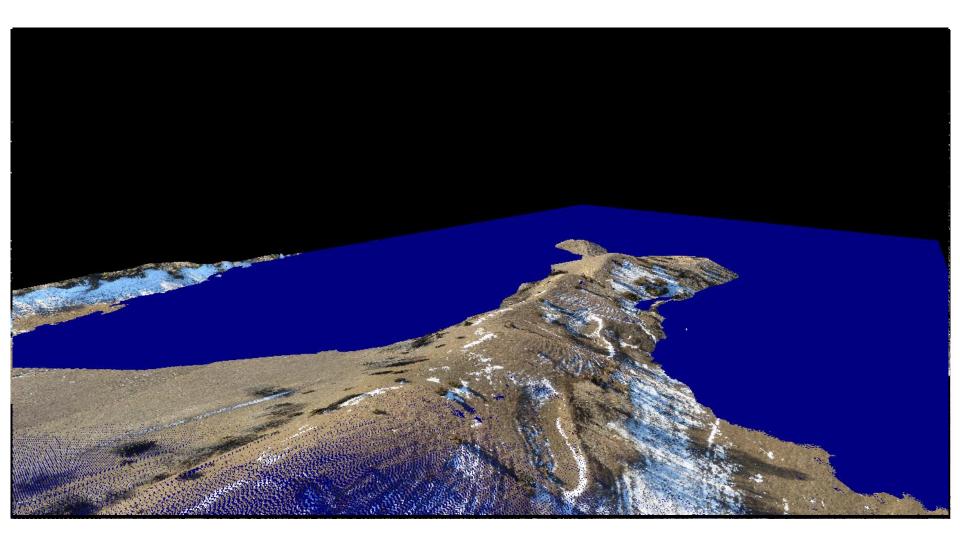
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Previous Points in 3D

Measurements

Planning







Final Thoughts

- Very fun and interesting
- Toy vs Tool
- •K.I.S.S.
- Will increase field scouting
- Regulations
- HUGE future potential







LABRE Crop Consulting

Sampling

Data

Equipment

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