# Pests and the foundation of integrated pest management

Christopher A. Greer Integrated Pest Management Advisor

November 18, 2024



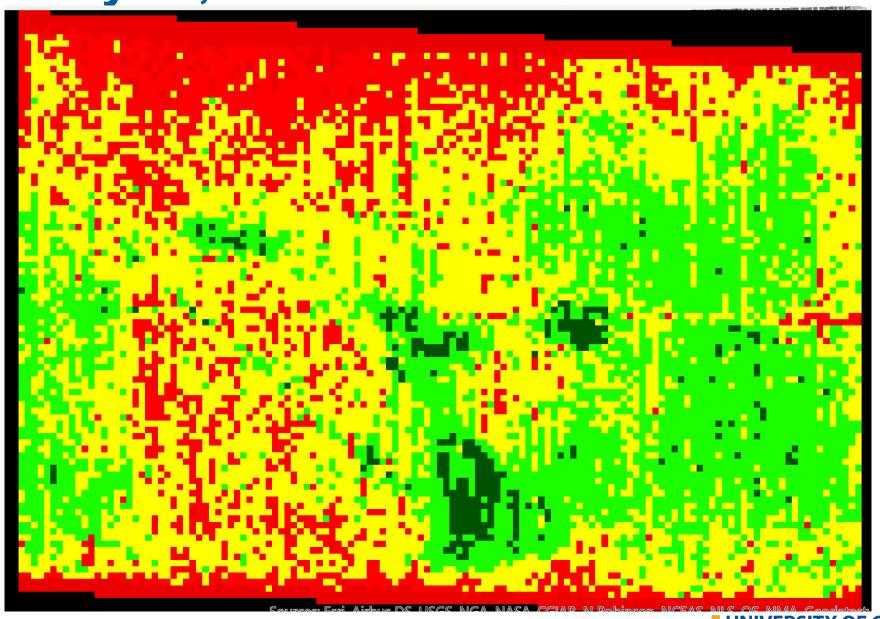


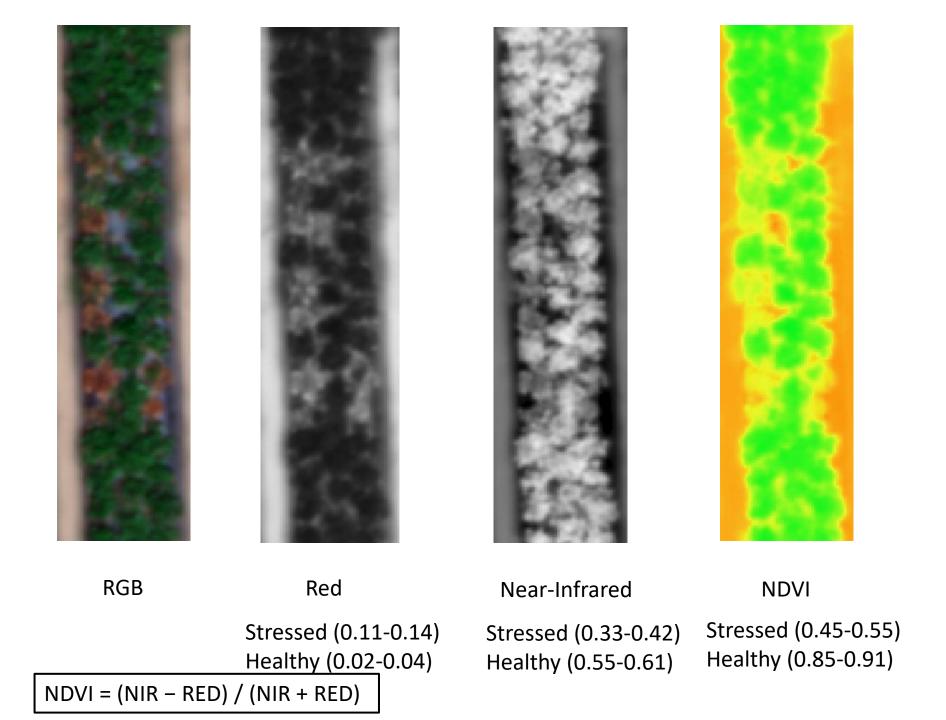
#### DJI Matrice 200v2 sUAS/drone



- MicaSense Altum multispectral/thermal camera
  - Captures 6 spectral bands
    - Visible light Blue, Green and Red bands
    - Non-visible light in the red edge, near infrared and thermal bands

**July 23, 2020** 

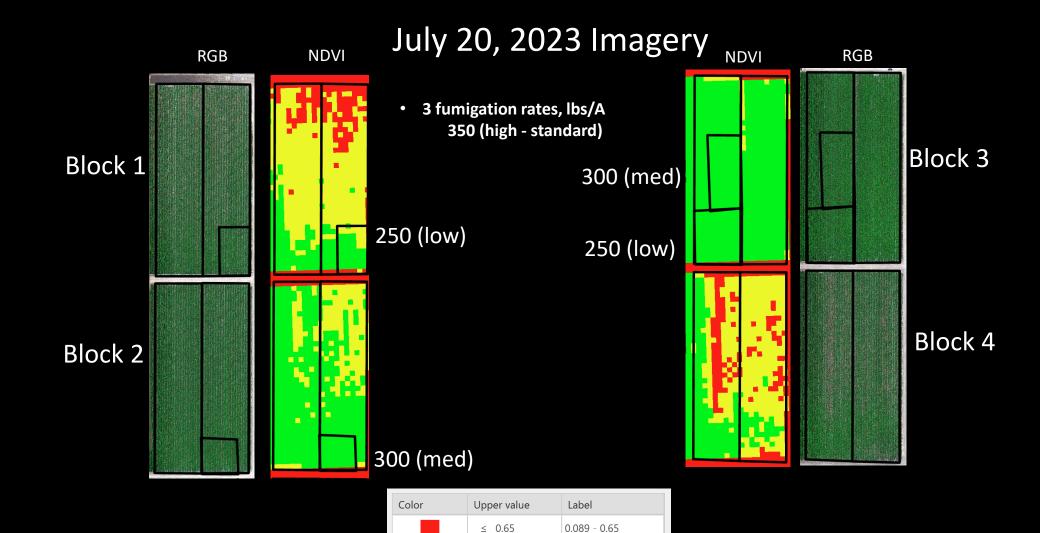










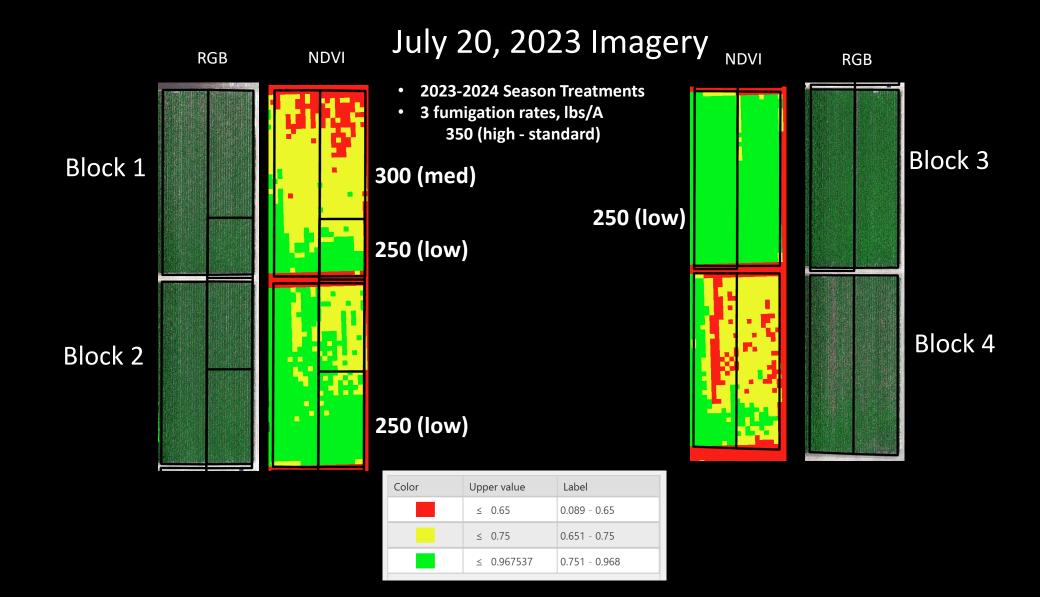


≤ 0.75

≤ 0.967537

0.651 - 0.75

0.751 - 0.968



## Remote Sensing in Practice

- Improved scouting efficiency for diseases and other pest issues – still need ground validation
- Disease/pest progression in annual or perennial crops with repeated sampling
- Earlier and more
  accurate disease and
  pest detection, perhaps
  even prior to being visible
  with the naked eye



### **Fusarium Wilt (Yellows) of Celery**



Stunting often seen w/Foa race 2



Stunting and death often seen within weeks of planting w/Foa race 4

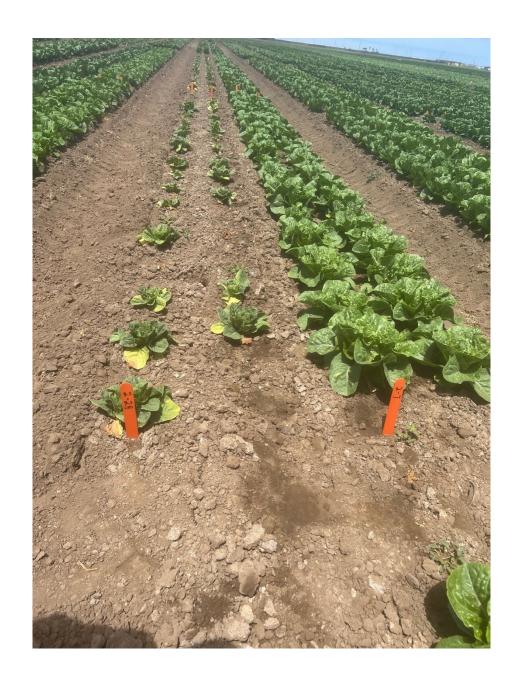
# Disease Symptomology

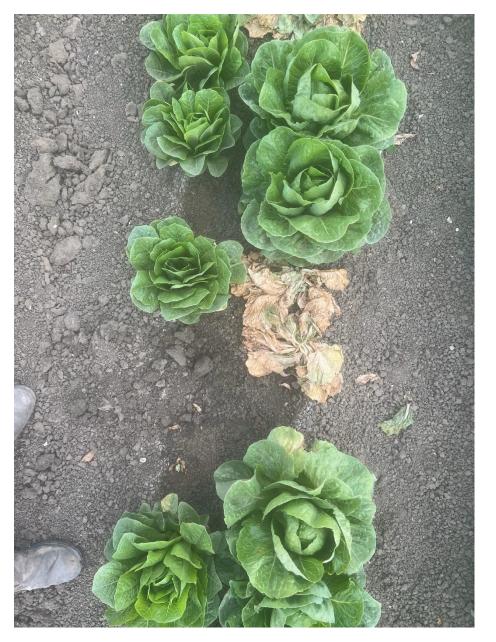


# **Disease Symptomology**









UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources

