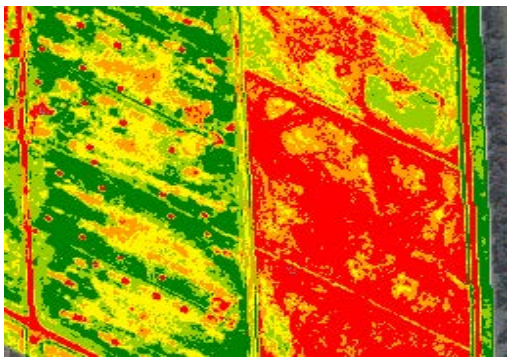
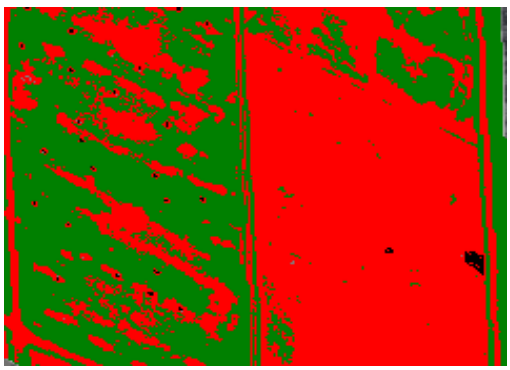
CASE STUDY
Coverage Area

DroneMate™
EVERYTHING AERIAL

Problem
Animal welfare guidelines require pig farmers to have a specific percentage of grass cover in paddocks. Previously this has been done by looking at the field, estimating it and writing it down. The worry is that this may not be sufficient evidence to show compliance.

Approach
1. DroneMate conducted an aerial survey of the paddocks, recording both RGB (above) and Near InfraRed (NIR) data.
2. The data images were uploaded to FieldAgent and processed to create a single RGB map (above) and NDVI [plant health] map (right)
3. These maps were shared with the client and "grass" and "non-grass" identified at a couple of locations on the maps.
4. The NDVI map was modified within FieldAgent to have just three categories:
    - "grass" areas in green
    - "not grass" areas in red, and
    - "other" [sheds, water etc] in black





Solution
The adjusted map showed grass/non-grass areas for each paddock, allowing a percentage cover for each paddock to be calculated.

The map and original images were stored in FieldAgent as evidence of process and compliance (see left).

Drones can calculate areas and percentage ground cover really easily. A Sentera NDVI sensor enhances plant and plant health identification. FieldAgent can store that information in easy to read and share formats.

Talk to us about how we can help you enhance your farm decision making.

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