



SOUTHERN MAPPING AGRI FARM DESIGN

BETTER DECISIONS FROM PRECISION FARM MANAGEMENT

Farm Design and Management is made easier by access to all your data in one place:

- GPS field maps: sub-meter accuracy and area per field.
- Soil analysis data.
- Harvest data from the combine harvester.
- Management of all your inputs on a per field basis accurately.
- Calculation of which crop will return the best profits; values are based on accurate information from well-known agronomists and economists.
- Satellite data (NDVI) and aerial photography (drainage planning).

Drainage and Irrigation Planning

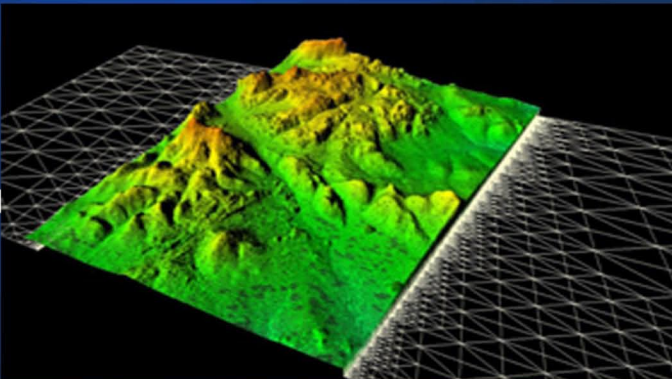
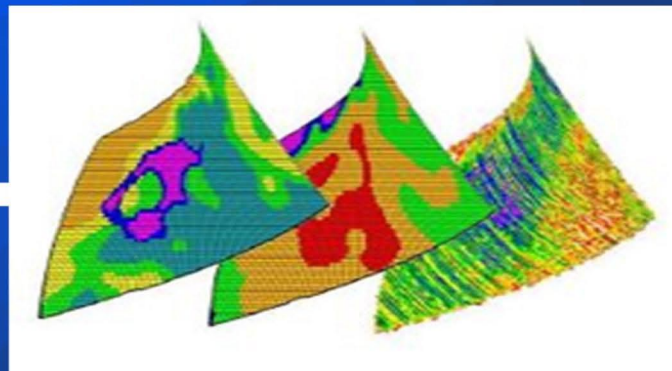
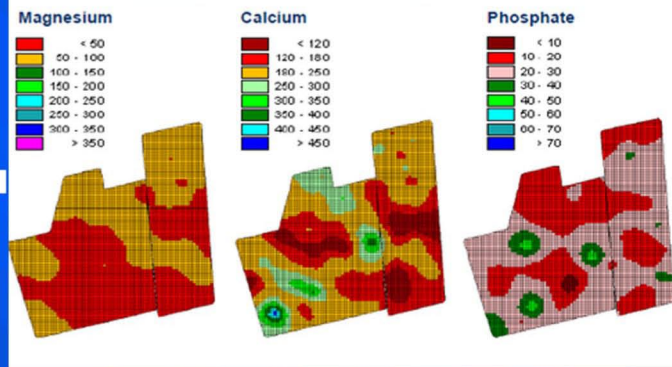
Detailed aerial imagery coupled with a LiDAR survey can be used to make drainage and irrigation plans more accurate. The LIDAR survey provides elevation information at accuracies in the order of 8-10cm in clear areas and approximately 20cm in areas with mature trees without the need to clear vegetation in advance.

Soil Management - Unsupervised Soil classification

Satellite imagery is used to guide in the planning of semi-detailed soil surveys. This saves unnecessary duplication of sampling within areas of similar soils.

Soil Survey/ Field Sampling

The output of the unsupervised classification is a quick surface response map showing variations in the area. This allows for field observation grids to be planned along and within suspected soil boundaries during field sampling. As an alternative to the ground-based field sampling, an aerial hyperspectral soil survey can be conducted over your farm to determine the different soil types present.



Land	Longitude	Latitude	Hectares
M01	25.29709098	-27.06164025	78.7586
M02	25.30540417	-27.06079888	14.2340
M03	25.30603858	-27.06921837	61.6022
M04	25.29934575	-27.07177950	98.3962

