



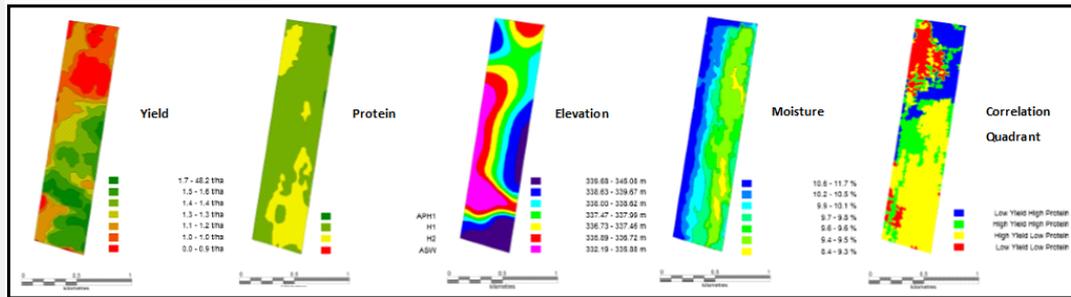
**OPTIMISE YIELD IN THE FIELD**

## Agronomic Solutions

The Protein and Yield data collected and stored in your combine are very valuable if you can use them to better understand the variability in Nitrogen availability and uptake across your fields. CropScanAg Solutions can help farmers to maximise investments in Precision Agriculture by capturing the data, presenting it in meaningful maps and providing Variable Rate Fertilization prescriptions and soil treatment recommendations. CropScanAg Solutions recognises that getting good Protein and Yield data starts before harvest begins. By setting up your combine monitors correctly, your data will be more accurate and more beneficial to you after harvest. CropScanAg Solutions will guide you through the setup file process correctly in order to collect the best data possible. Based on the data collected, a Report Card will be prepared by CropScanAg Solutions on the performance of your crops, i.e., Yield Increases and Levelling, Protein Increases and Levelling and Gross Margin Performance.



## Data Processing

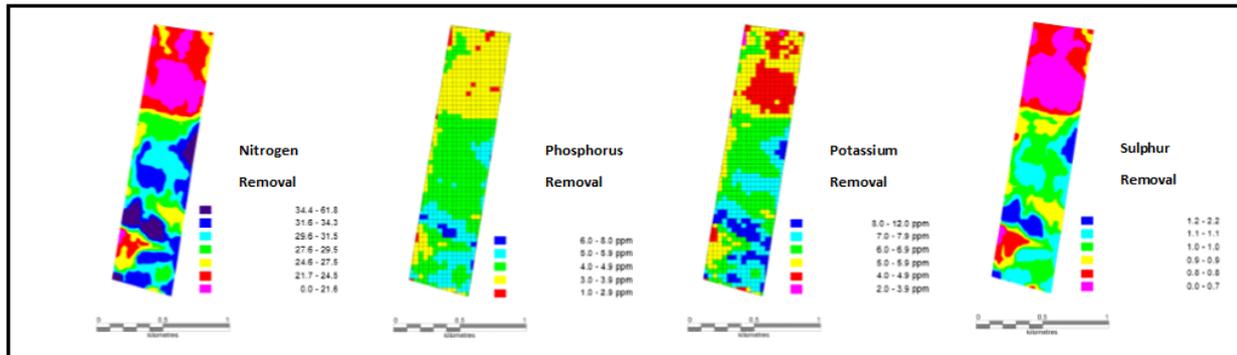


Our CropNet Mapping specialist will collate the data for each field or paddock and then generate Yield, Protein, Elevation, Moisture and Correlation Quadrant Maps across your farm. A complete Nutrient Removal analysis will be applied for N, P, K and S to give better insight into the amount of nutrients being removed by the crop. Our specialist will then generate a Harvest Mapping Booklet along with PDF and Farm Works Backup files to be upload to your dropbox account where you can download them and share them with your agronomist. The data files will be suitable for opening in Farmworks, CASE AFS, New Holland PLM and AgLeader SMS software packages. Formating and organising these data layers is critical in diagnosing and applying actionable field trials and appliactions. CropScanAg Solutions Yield/Protein Correlation Quadrant Maps showing Soil Performance zones across your farm. These maps show four coloured zones that relate to the performance of the crop across the fields. The maps show zones for:

Low Protein/High Yield....  HighProtein/Low Yield....  High Protein/High Yield....  Low Protein/Low Yield....

## Annual Report Card

Protein, Yield, Moisture, Elevation and Nutrient Removal Maps are an annual assessment of the harvest. The Protein and Yield responses tell how the crops perform. CropScanAg Solutions' Soil Scientist will assess the data and then meet with the farmer and their agronomist to develop VRF applications and Soil Nutrient strategies.



### Variable Rate Prescriptions

The final step is to turn the sensor layers into actionable applications or trials. The farmer can then use these applications to improve the quantity (Yield) and quality (Protein) of their crops. CropScanAg Solutions will convert the farmer's data into field trials or full farm based Variable Rate Applications for N, P, K and S, which can then be reviewed with farmer and agronomist. Our data specialist will create the shape files to be downloaded into the Seeder or Spreader.

## Other Services

### SOIL STATION

Complete Soil Performance and Weather Data Management Unit. This solar powered station provides growers the valuable and well defined data link between soil moisture, soil management and crop productivity. Using the advanced technology provided by Pessl Instruments, the Soil Station provides soil moisture monitoring, Delta T (critical for spraying), Rainfall Monitoring, Relative Humidity, Advanced Crop Disease Modelling and Soil Conductivity (EC) Monitoring. This data is critical for monitoring and addressing potential crop moisture stress, disease pressure, adverse weather and soil conditions that can impact crop performance.



### Soil Performance Zoning

Field Systems offers a soil performance zoning service using a 4 Band EM38 Topsoil Mapper. The TSM maps and other critical soil physical and soil mechanical measurements are used by Field Systems to define outcomes and solutions for growers to assess and act on where possible. The sensor is capable of accurately recording the depth to compaction (D2I-Depth to Interface), relative water content and soil zoning to 4 soil layers as the sensor travels across the field behind a vehicle. These zones are used as a soil layer management platform to add to the yield and protein data as necessary.



### Soil Productivity Assessment

Soil assessment and analysis can be conducted by Field Systems. Soil Data can then be linked back to field zones and be utilised to refine and define VRF prescriptions. Soil Productivity Assessment is not restricted to basic chemical analysis. Soil physical, biological, hydrological and soil mechanical analysis can be provided, depending on soil and crop requirements.



### Field Core - Soil Core Profiling

Intact soil core extraction, preparation and assessment can be undertaken as required for either field review or precision laboratory sampling. Small cores can be used to install moisture probes and the intact core sizing then can be as wide as 90mm if required for increased sample volume and more defined soil horizon modeling and management across a farm. Field Core technology is generally required to accurately ground truth soil zones for paddock management purposes.



## OUR TEAM



### **MAT CLANCY**

Mat Clancy General Manager Next Instruments. Part of the development team for the CropScan 3000H. Mat has a good understanding of customer needs and turning them into working products.

### **MICHAEL EYRES**

Michael Eyres is a soil systems engineer with Field Systems, a strategic soil management research and advisory company based in South Australia. Michael works with Australian broadacre farmers specifically in strategic soil management.



### **IAN BEECHER-JONES**

Ian Beecher-Jones has been a precision farming adviser for several years. While based in the UK, he spends significant time across the world, including Australia, advising farmers on their precision farming operations.

### **EDWARD SCOTT**

Ed is a soil systems scientist involved in the Australian agricultural industry and General Manager of Field Systems, the South Australian soil technology, land management and field advisory consultancy.



A faded background image showing a combine harvester on the left and a grain elevator on the right, both in a field. The harvester is moving towards the elevator, with a long conveyor arm connecting them.

# CROPSCANAG SOLUTIONS

## CONTACT US

Phone: 0297715444

Email: [sales@cropscanag.com](mailto:sales@cropscanag.com)

Web: [www.cropscanag.com](http://www.cropscanag.com)