



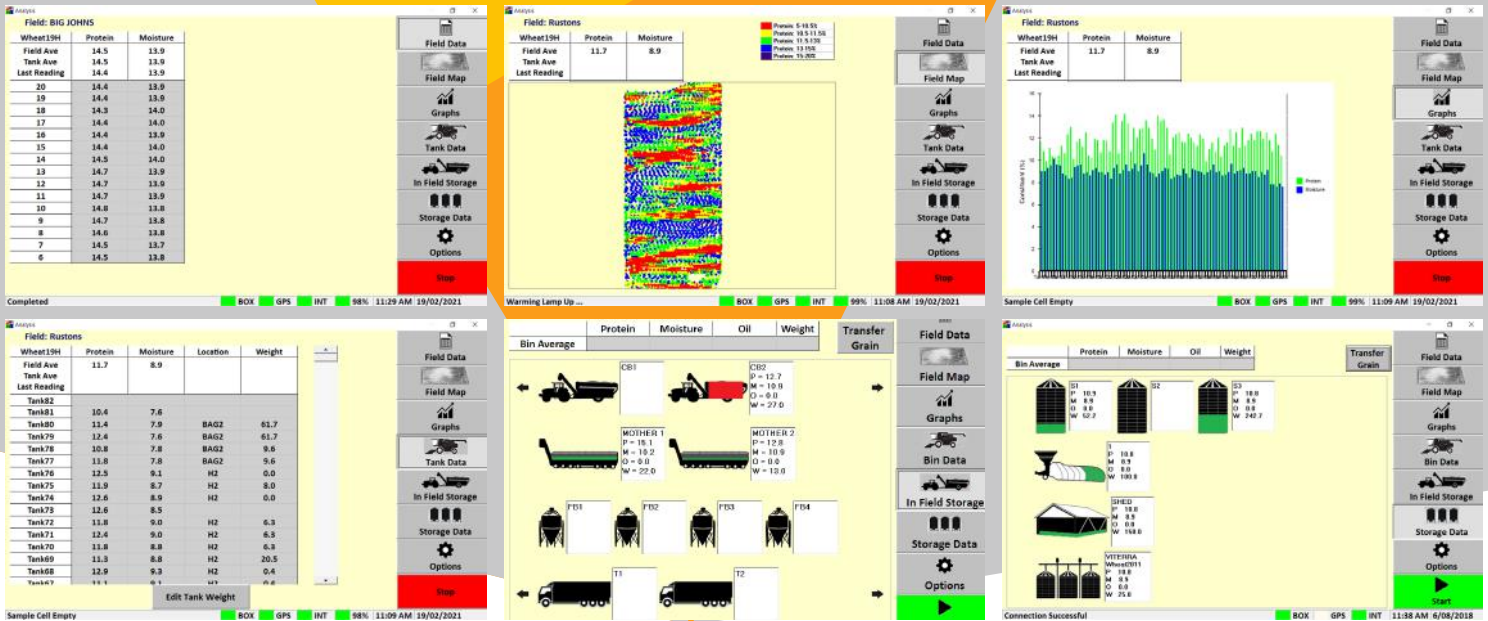
CropScan 3300H

On Combine
Grain Analyzer

Optimize Yield In The Field

Real Time Grain Quality

The CropScan 3300H On Combine Analyzer measures Protein, Oil, Starch and Moisture in grains and oil seeds every 5 to 12 seconds as they are harvested in the field. The CropScan 3300H comprises of a Sampling Head, a Fiber Optic cable, a NIR Spectrometer and a In Cab Display. As grain passes up the clean grain elevator, grain fills the remote sample head and the NIR scan is taken. The results for Protein, Oil, Moisture, Starch and Fiber will be displayed on the In Cab Display in the form of a Field Data, Field Map, Graphs, Tank Data, In Field Storage and Storage Data giving the user real-time quality data. The data enables farmers to make better informed decisions regarding when to start harvest, blending grain and improving Nitrogen Management practices across the farm.



The Benefits



NITROGEN MANAGEMENT

The CropScan 3300H can assist farmers to achieve higher Nitrogen Use Efficiency (NUE) across their farm. Combining Protein and Yield data provides a more complete picture of Nitrogen Availability and Uptake across the field.



ACCURATE MOISTURE

Accurate moisture measurements mean farmers can harvest for more hours each day and have confidence in every load of grain delivered.



GRAIN LOGISTICS

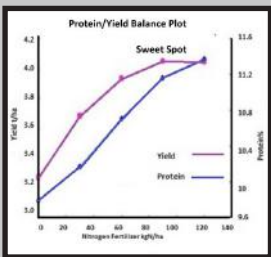
Optimise crop payments based on accurate Protein blending. The CropScan Grain Logistics software enables farmers to manage the quality and quantity of their grain in the field.

Optimize Yield in the field

Protein and Yield mapping provides a more complete picture of the Nitrogen Availability and Uptake in the field. Research shows that cereal crops with Protein content less than 11.5% have not reached their full Yield potential. Combining Protein and Yield maps identifies the zones across the farm where the Yield has been limited by Nitrogen. By using both Protein and Yield data, farmers can develop simple and accurate Variable Rate Nitrogen Applications to increase Protein and Yield to the Sweet Spot. The "Sweet Spot" is when the Protein and Yield are optimized.

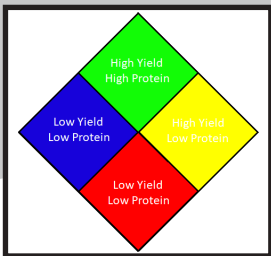
Nitrogen Fertilizer Management

Nitrogen is the most expensive chemical input across most farms. Getting the application of Nitrogen right increases Yield and Protein. Getting the application wrong and you waste money. The CropScan 3300H provides the "Missing Piece of the PA Puzzle". By combining Protein and Yield, VRF prescriptions can be developed that produce a 20-30% Positive Yield Response.



Farm Data Manager

The CropScan 3300H provides the ability to generate a set of field maps including Protein, Yield, Moisture, Oil and Starch, Nitrogen Removal, Sulphur Removal, Phosphorus Removal, Potassium Removal, Protein/Yield Correlation Quadrant, NUE and WUE maps.



Soil Productivity Testing

Using the Protein/Yield Correlation Quadrant maps to generate four Performance Zones across each field, farmers can strategically identify Soil Productivity Testing zones.

VRF Trials

Measuring the Protein and Yield across the field validates any VRF, Seeding and other farm trials or practices. The crop performance is quantified by the Protein and Yield response.

What our growers are saying



Steve Arnold
Kansas, USA

"Hauled 8 semi loads of wheat today. We thought we would average 11.8% protein off the truck. Our confidence in this equipment is high."



Steve Larocque
Alberta, Canada

"The ability to map protein and combine it with yield mapping is where the magic happens. This technology would make it that much easier to blend grain when you know what you have."



Jess Woods
Montana, USA

"The CropScan did its thing. I didn't have to baby it or monitor it. This is the next layer to manage our fields."



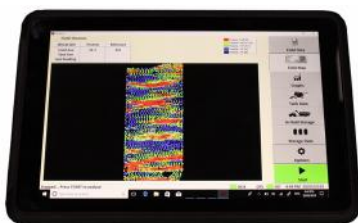
Adam Gurr
Manitoba, Canada

We plan to run some more complex trials this year on the farm, which we could not do or would not attempt to do without the CropScan."

Technical Specifications

Crop Types	Wheat, Barley, Canola, Corn, Soybeans, Sorghum, Chick Peas and Lentils. Other grain types available on request.
Parameters	Moisture, Protein, Oil, Starch and Fibre
Cycle time @ 30bu/ac	5-8 Seconds per Sub Sample
Sample size	400ml
Power requirements	12VDC
Analysis principle	Near Infrared Transmission, Diode Array Optical System
Wavelength range	720-1100 nm
Calibration	PLS (Partial Least Squares)
Shipping Size (WxDxH)	20 x 14 x 24 in (500 X 350 X 600mm)
Weight	22kg or 48.5lbs
Display	10.4" Touch Screen, WOS, USB, WIFI and Bluetooth
Combine Harvester	John Deere, CaseIH, New Holland, Claas and AGCO
GPS Receiver	Not Supplied - cable harness supports manufacture's receiver
Cloud Service	API to CropScanAg Cloud
Installation Time	6-8 hrs

The CropScan 3300H includes a Touch Screen Tablet, Remote Sampling Head, Spectrometer, Auger Sensor, combine specific Wiring Harness, RAM Mounts and Accessories Kit.



Touch Screen Tablet



Sampling Head



Spectrometer



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