



CROP QUEST

# PRECISION AGRONOMY

less worry, less risk and  
more growth potential

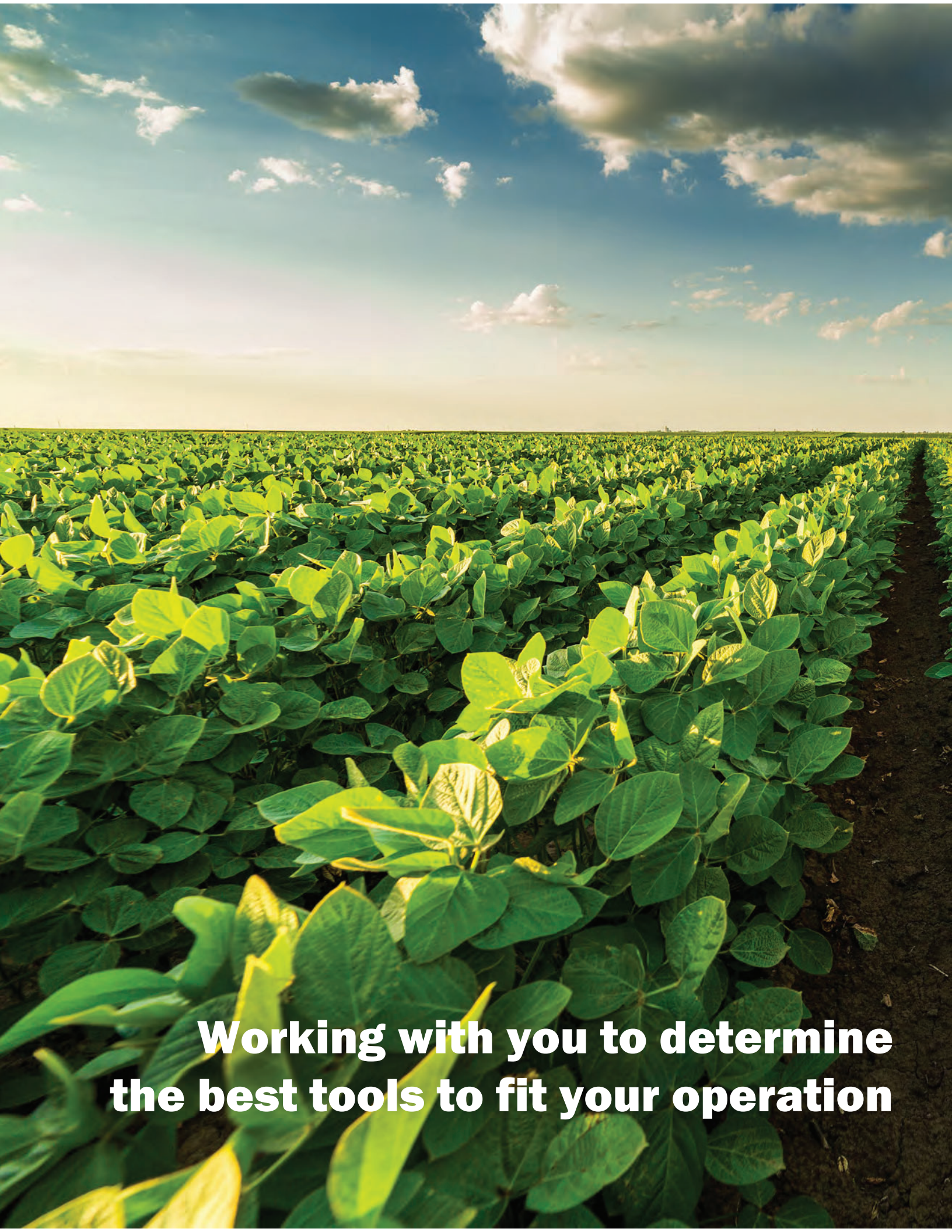


# PRECISION AGRONOMY SERVICES



***Employee-Owned & Customer Driven***

**Crop Quest is an employee-owned company dedicated to providing the highest quality agricultural services for each customer. The quest of our network of professionals is to practice integrity and innovation to ensure our services are economically and environmentally sound.**



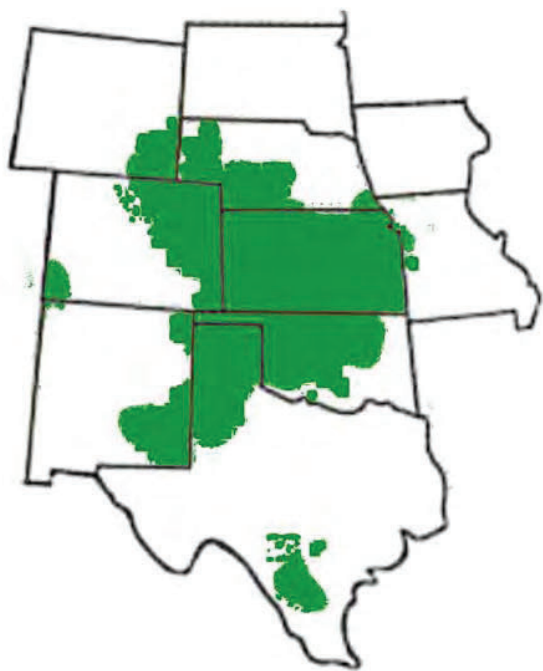
**Working with you to determine  
the best tools to fit your operation**





# OUR NETWORK

Our network of Agronomists and Precision Ag Specialists offer unbiased crop production recommendations to producers in multiple states across the High Plains, and imagery services world-wide.



**100%** Independent and Employee Owned

Consulting on more than  
**1.7 MILLION ACRES**  
across the High Plains

Producers in **7 STATES**

**We sell no products, only professional recommendations.**



# CROP CONSULTING

**Our network of agronomists can customize consulting packages to fit any size of operation.**

## **Foundation Data**

- Soil Texture, pH, OM, Elevation
- Grid Sampling
- Zone Sampling

## **Management Zones**

- Variable Rate Recommendations
- Seeding, Fertility, Growth Regulator

## **Crop Monitoring**

- Field Checks
- Imagery
- Irrigation Scheduling

## **Crop Planning**

- Crop Rotation
- Crop Budget
- Fertility Management
- Seed Selection
- Yield Analysis

## **Water Management Services**

- Irrigation Management
- Water Drainage
- Tile Drainage
- Topo Services
- Water Meter Log App
- Smart Pivot Monitoring







# FOUNDATION DATA

**Know your field below the surface.**

## Why start with soil properties?

Mapping your soil will give you the basis for building management zones. We can build many recommendations and prescriptions once management zones are created.

## What data do we collect?

Data can be collected simultaneously!



Soil Texture



Elevation



pH



Organic Matter

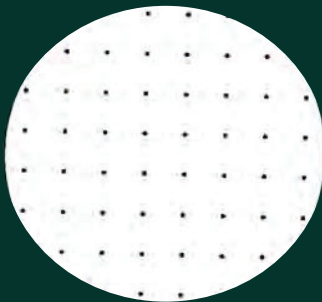
**Soil property data makes a great foundation  
for creating management zones.**



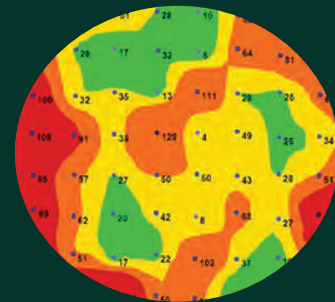
# SOIL SAMPLING OPTIONS

## GRID SAMPLING

Fine-tune where nutrients or amendments may be necessary.  
Best for pin-pointing specific nutrient levels throughout the field.

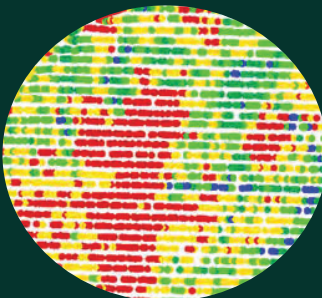


Grid Points

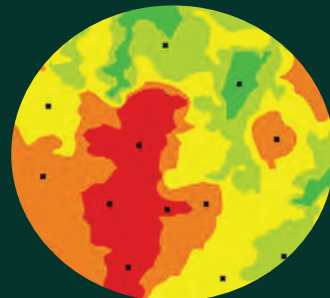


## ZONE SAMPLING

Identify productivity zones.  
Collect samples from zones that have similar underlying soil types or properties.



EC/EM Data



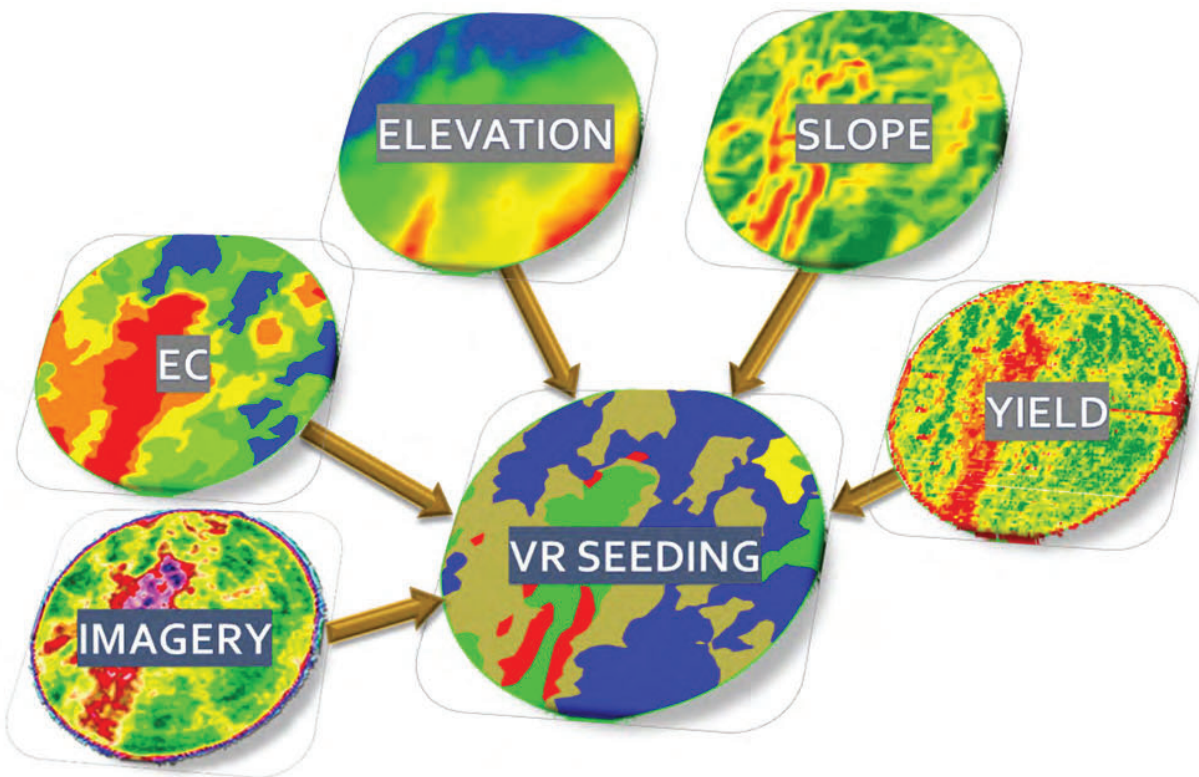




Example of  
Multi-Hybrid Prescription

# WHY CREATE MANAGEMENT ZONES?

Group areas within a field that have similar characteristics into management zones. Higher efficiency is attained with variable rate applications.



Work with your Crop Quest Agronomist to  
determine the best layers to use



# VARIABLE RATE FERTILITY



GYPSUM

PHOSPHATE

POTASH

NITROGEN

MANURE

LIME

ZINC

CHELATED IRON

Utilizing grid samples, soil EC/EM data, pH, and organic matter to put the right **product**, at the right **rate**, on the right **zone**, at the right **time**.





# CROP **MONITORING**

**Much more than** *just a scout*



Practicing **integrated pest management**, we monitor the overall health and progress of the crop.

**Regular quality checks** help minimize risk and control issues before they become a problem.

**In an ever-changing industry,  
trust an independent voice**





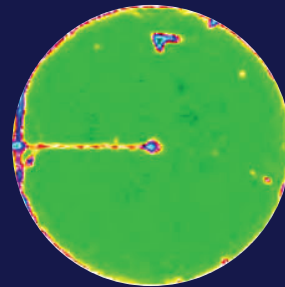
# IMAGERY

Get a **Bird's Eye View** of:

- Crop Damage
- Pest Damage
- Irrigation Patterns

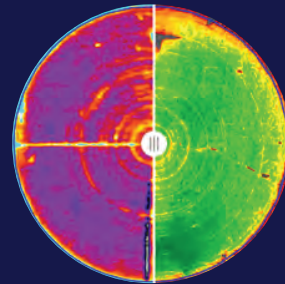
## SATELLITE IMAGERY

- Cost Effective
- Multiple images per month
- Monitor field progress throughout the season



## AERIAL IMAGERY

- Higher resolution images
- Smart pivot monitoring
- Anomaly detection
- Crop performance



## UAV IMAGERY

- Captures high definition pictures or videos



Turning Images into **Useable Information**





# CROP **PLANNING**

## PRE-SEASON & IN-SEASON PLANNING

### Services that fit **your operation**

Our Crop Quest Agronomists focus year round on the services that best fit your operation. Crop Quest assists clients in planning crop rotation, taking into account herbicide use, crop prices, weed problems and other variables. As a part of our full service program, our Agronomists can generate computerized crop budgets for each field.



Crop  
Rotation



Crop  
Budget



Fertility  
Management



Seed  
Selection



Irrigation  
Scheduling

**A little bit of planning can help  
ease you through the unexpected.**



# ON DEMAND VARIABLE RATE PRESCRIPTIONS

Stop throwing dollars away on the blanket approach

VR Seeding

VR Multi-Hybrid Seeding

VR Fertility

VR Irrigation



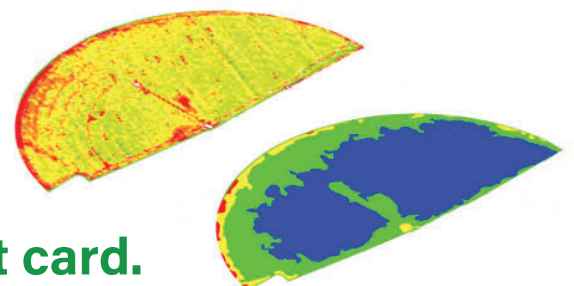
## YIELD ANALYSIS

Discover geospatial trends and establish yield goals through multiple years of data.

Refine management zones and develop an action plan to improve VR nutrient applications.

### Yield Goals

- High - 240 bu/ac
- Mid-High - 210 bu/ac
- Mid-Low - 180 bu/ac
- Low - 150 bu/ac



Yield maps are a report card.



# PARAMOUNT REPORTS

## GET YOUR DATA ANYTIME, ANYWHERE

Get the best reporting tool for agX data on the market. Created by Crop Quest, Paramount Reports is designed to work for you, whether you're in the field or at home, and on any device.

**Crop Quest**  
*Agronomic Services*

**Field Report**  
Crop Quest, Inc.  
1204 W. Frontview St. Dodge City KS 67801  
<https://www.cropquest.com>

**Crop: Corn - 2020**

**Crop Scouting**  
Growth Stage: Blister      Condition: 5 - Average  
Soil Moisture Status:      Crop Available Water: 0.99 in / 4.0 ft      Water Depleted: 22  
Forecast Water Use:      Day  
7 Day PET: 2.29 in / week  

	Mon	Tue	Wed	Thu	Fri
Crop Available Soil Water	0.99 in	0.72 in	0.33 in	0.00 in	0.00 in
Crop Water Use	0.27 in	0.39 in	0.45 in	0.45 in	0.38 in

**Run continuous**

Pest	Severity	Infestation Level	Stage	Location
☛ Rootworm Beetle, Western Corn	Light		Adults	
☛ Mite, Banks Grass	Trace		Adults	
☛ Leaf Spot, Gray	Light		Lesions	Lower

**Comments:**  
Mites and GLS still low on the plant. Ears look like they pollinated decent. No major problems.

**Crop: Soybean**

**Crop Scouting**  
Growth Stage: 1st Bloom      Condition: 5 - Average  
Soil Moisture Status:      Crop Available Water: 0.99 in / 4.0 ft      Water Depleted: 22  
Forecast Water Use:      Day  
7 Day PET: 1.37 in / week  

	Mon	Tue	Wed	Thu
Crop Available Soil Water	0.99 in	0.83 in	0.60 in	0.33 in
Crop Water Use	0.16 in	0.23 in	0.27 in	0.27 in

**Run 3-4 days, then go to corn**

Verizon 12:10 PM JM Joe >

Today 9:23 AM

This week's field report. Field Report McDonald Farms

Paramount Reports app.paramountreports.com

We need to treat weeds on Smith Circle. Recommendation Summary McDonald Farms

Paramount Reports app.paramountreports.com

Do the beans need sprayed today?

Wednesday at the latest.

👍





# DETAILED FIELD REPORTS

Each report contains weed, insect and disease scouting results, maps highlighting field conditions, irrigation scheduling information and ag-chemical recommendations.

## Understand Your Farm; From Soil to Software

- Growth Stage by Date
- Soil Test Summary
- Crop Population
- Recommendation Summary
- Management Zone Soil Tests
- Management Zone Prescriptions
- Soil Moisture Chart
- Pre-Season Field Plan
- Sprayer Load Sheet
- Supply List
- Soil Test Charts
- Irrigation Recommendation





# WATER MANAGEMENT

Understanding soil structure and water holding capacities in your field can lead to better irrigation management and crop health.

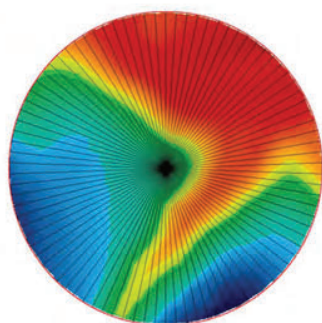
## IRRIGATION MANAGEMENT

Soil Moisture  
Monitoring

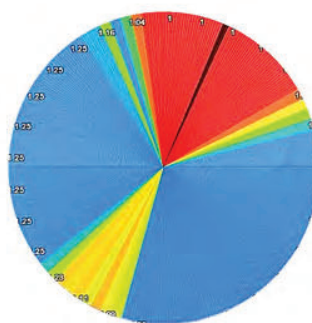
Irrigation  
Scheduling

VR Irrigation  
Recommendations

### Variable Rate Irrigation



Slope, Elevation, Soil Texture  
and/or Yield Data



VRI Recommendation

**Compatible on almost all pivot brands, makes & models.  
Must have telematics devices installed on pivot.**



# WATER DRAINAGE SOLUTIONS

Eliminate **water holes**.

Direct **runoff** efficiently off your field.

**Integrated mapping** allows for the least amount of soil movement to reduce drainage costs.



Topography  
Survey



Field  
Leveling



Build  
Terraces



Drainage  
Ditching



Tile Drainage  
Design

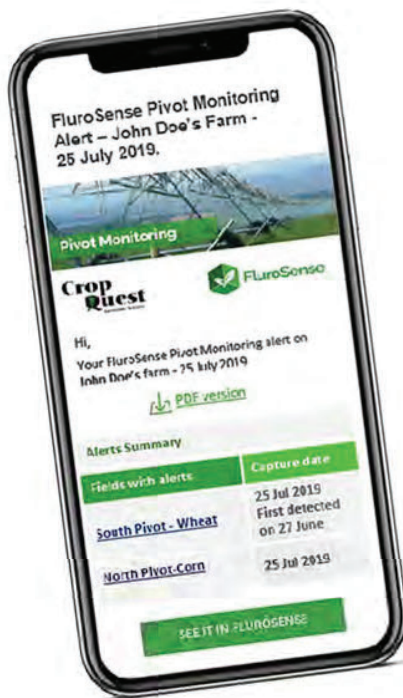
***Have Drainage Issues?***

**With our innovative drainage program,  
the results can be significant and immediate!**



# SMART PIVOT MONITORING

## Automated Alerts on Fields with Nozzle Issues



### SAVE YIELD

Each alert is an opportunity to catch nozzle issues before they cause a decrease in yield.



### Detect

Detect irrigation issues sooner using thermal imagery



### Analyze

Images analyzed by cloud based pattern recognition software



### Report

Notification of nozzle issue sent to email



# DIGITAL FARM CONSULTING

## **Remote Advising** with an Enhanced Precision Ag Toolbox

Solutions to integrate the latest technology and a network of farm consultants to help improve the productivity and sustainability on your farming operation.

Fits growers who want precision services, but may not require a full-time crop consultant.

Suggesting the right technology for your operation.





# SERVICES TO FIT YOUR OPERATION

We have all types of tools at our disposal **to make the best decisions on your operation.**



## Contact Us

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[cropquest.com](http://cropquest.com)