Ogallala Aquifer SUMMIT

APRIL 9 - 10, 2018 | GARDEN CITY, KANSAS

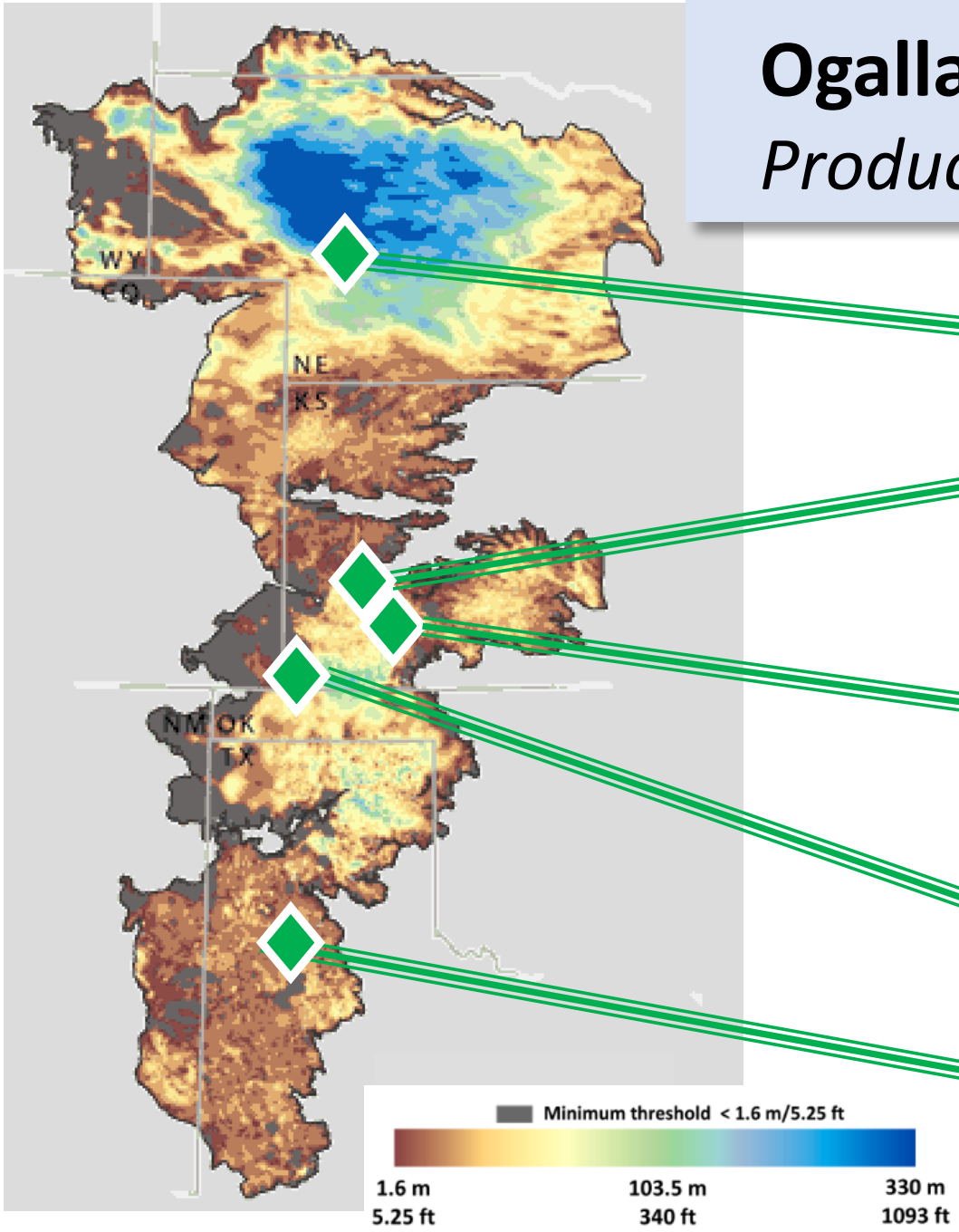
Producer Panel:
Water-wise strategies for sustainable production

Moderator: Tracy Streeter

Director, Kansas Water Office

Ogallala Summit

Producer Panelists



Roric Paulman (Crops)
Sutherland, NE

Kyle Averhoff (Dairy)
Garden City, KS

Tom Jones (Cattle)
Montezuma, KS

Darren Buck (Crops)
Kansas & Oklahoma

Ronnie Hopper &
R.N. Hopper (Crops)
Petersburg, TX

Data/imagery for saturated thickness map (2015 estimates):
Erin Haacker/Lacey Moore

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Tom Jones

Managing Member of Hy-Plains Feedyard, LLC

Hy-Plains Education and Research Center

Montezuma, KS

The Hy-Plains Family

VETERINARY VRCS RESEARCH & CONSULTING SERVICES, LLC

GrowSafe

Rabo AgriFinance

ABS

Since 1885 JL The Brand of Quality in Quantity

Ashland Veterinary Center Inc.

CLC Circle Land & Cattle

Performance Cattle Company, LLC
Cattle Marketing

MEAT LINK
Livestock and Meat Business Consulting

COGENT ideas inc

K·COE ISOM

RFI – Residual Feed Intake:

Represents the amount of feed consumed, net of the animals requirements of body weight and production. Efficient animals eat less than expected and have a negative or low RFI, while inefficient animals eat more than expected and have a positive or high RFI.

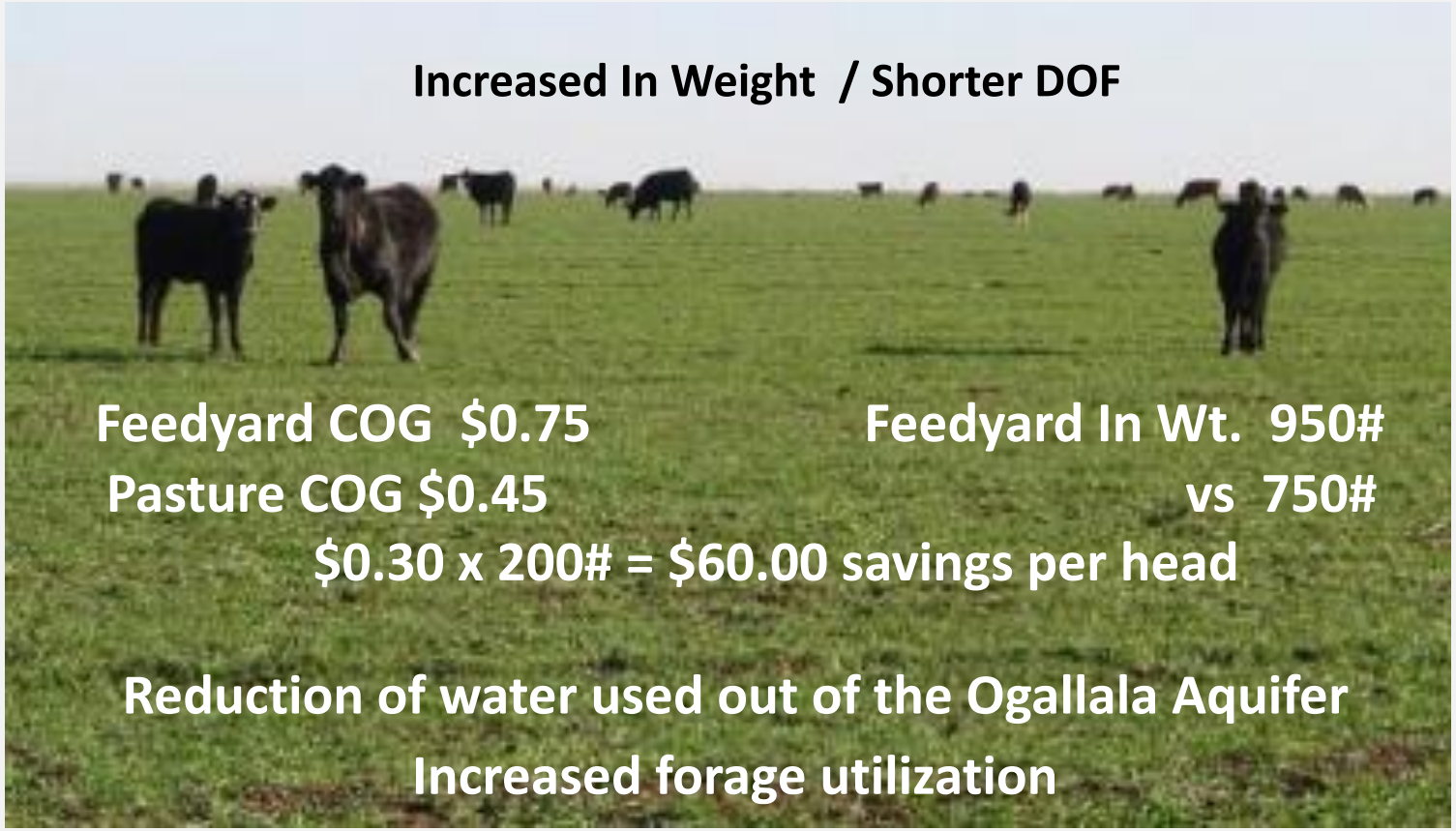
HPFY

Benefits of selection for lower RFI in beef cattle:

- Reduction in feed intake by 10-12%
- Reduction in liver, stomach and intestinal weights
- 25-30% reduction in methane production
- 15-17% reduction in manure N, P and K production
- Efficient calves become efficient adults
- Progeny of low RFI cattle are more efficient (Agri-facts)

HPFY

Future…


Increased In Weight / Shorter DOF
Feedyard COG $0.75
Pasture COG $0.45
Feedyard In Wt. 950#
vs 750#
$0.30 x 200# = $60.00 savings per head
Reduction of water used out of the Ogallala Aquifer
Increased forage utilization

HPFY

Tying it all together…..

Sustainability

- Predictability: Produce wholesome consistent product beginning at conception
- Traceability
- Management / Marketing Strategies
- Increased efficiency and performance reduces environmental footprint

HPFY

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Roric Paulman, Paulman Farms
8,500 acre farm near Sutherland, Nebraska
Chair, the Nebraska Water Balance Alliance

Producer Driven Solutions

- 8000 acres
- 11 land use treatments (native range, irrigated, rain-fed crops, CRP)
- Testing advanced agronomic equipment and processes to conserve water

PRODUCTION

Weather Stations | Field Sensors | Equipment Tools | Scouting Devices

ON-SITE MONITORING

PRODUCTION

Weather Stations | Field Sensors | Equipment Tools | Scouting Devices

ON-SITE MONITORING

OFF-SITE MONITORING

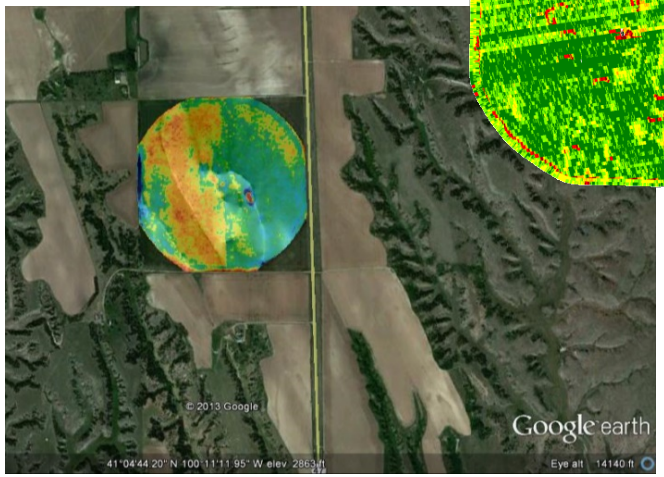
Weather
Soil
Imagery

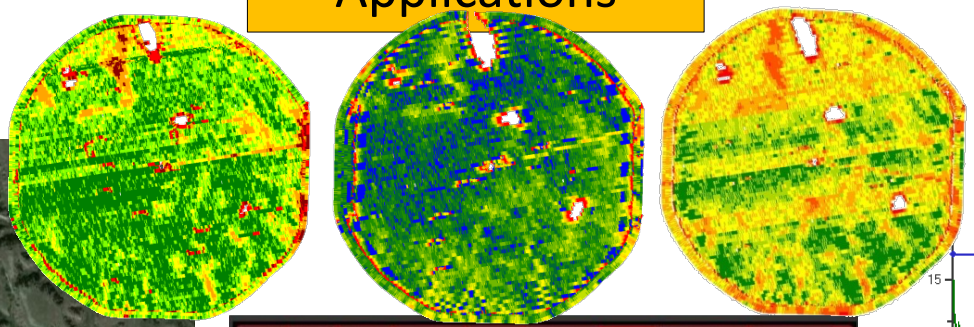
Field Data/Alerts

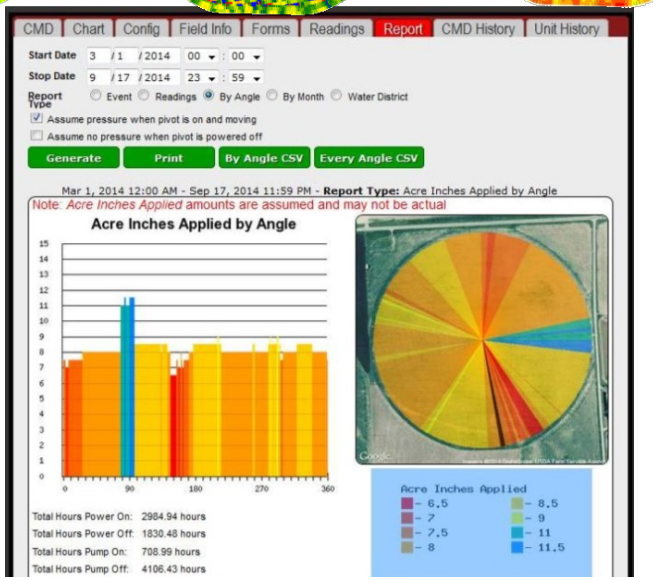
Precision Ag Applications

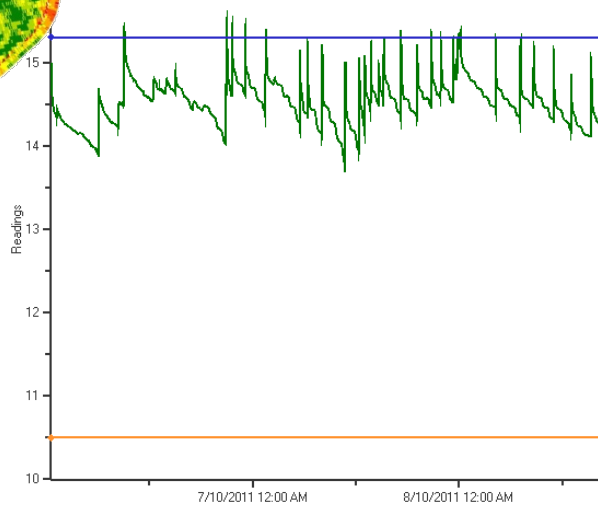
Crop
Pest
Water

OFF-SITE MODELING









PRODUCTION

Weather Stations

Field Sensors

Equipment Tools

Scouting Devices

ON-SITE MONITORING

OFF-SITE MONITORING

Weather

Soil

Imagery

Field Data/Alerts

Precision Ag Applications

Crop

Pest

Water

OFF-SITE MODELING

Sales

Inventory

Back Office

Management Decisions

Consultant

Grower

Regulatory Reporting

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Traceability

MARKETING

Processor/Shipping

Buyer

A Strategy for the Future

Forging

a comprehensive strategy

for long-term sustainability

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Kyle Averhoff

General Manager and Managing Partner,
Royal Farms Dairy
Garden City, KS


Royal
FARMS DAIRY

About Royal Farms Dairy

- Established in November of 2000
- Located in the Western Kansas
- Ownership Consists of 6 Partners
- Expanded the Operation to 2 Sites in 2014
- Milking 9300 Cows
- 10000 Self-Raised Heifers
- Involved in Crop Production & Milk Processing

Water Story

- Saturated Thickness at Royal is 75-120’ with Annual Depletion of 1.5-3’ per Year
- Saturated Thickness at Noble is 200-300’ with Annual Depletion of 3-5’ per Year
- Annual Water Pumping for 2 Dairies around 900 AF
- Annual Lagoon Pumping for 2 Dairies around 650 AF
- De-Watering Across 3600 Acres (2.2 Acre Inches/Acre)
- Net Water Consumption for Milk Production Equivalent to 1.5 Circles of Corn

Water Strategy


Noble
DAIRY
Royal
FARMS DAIRY

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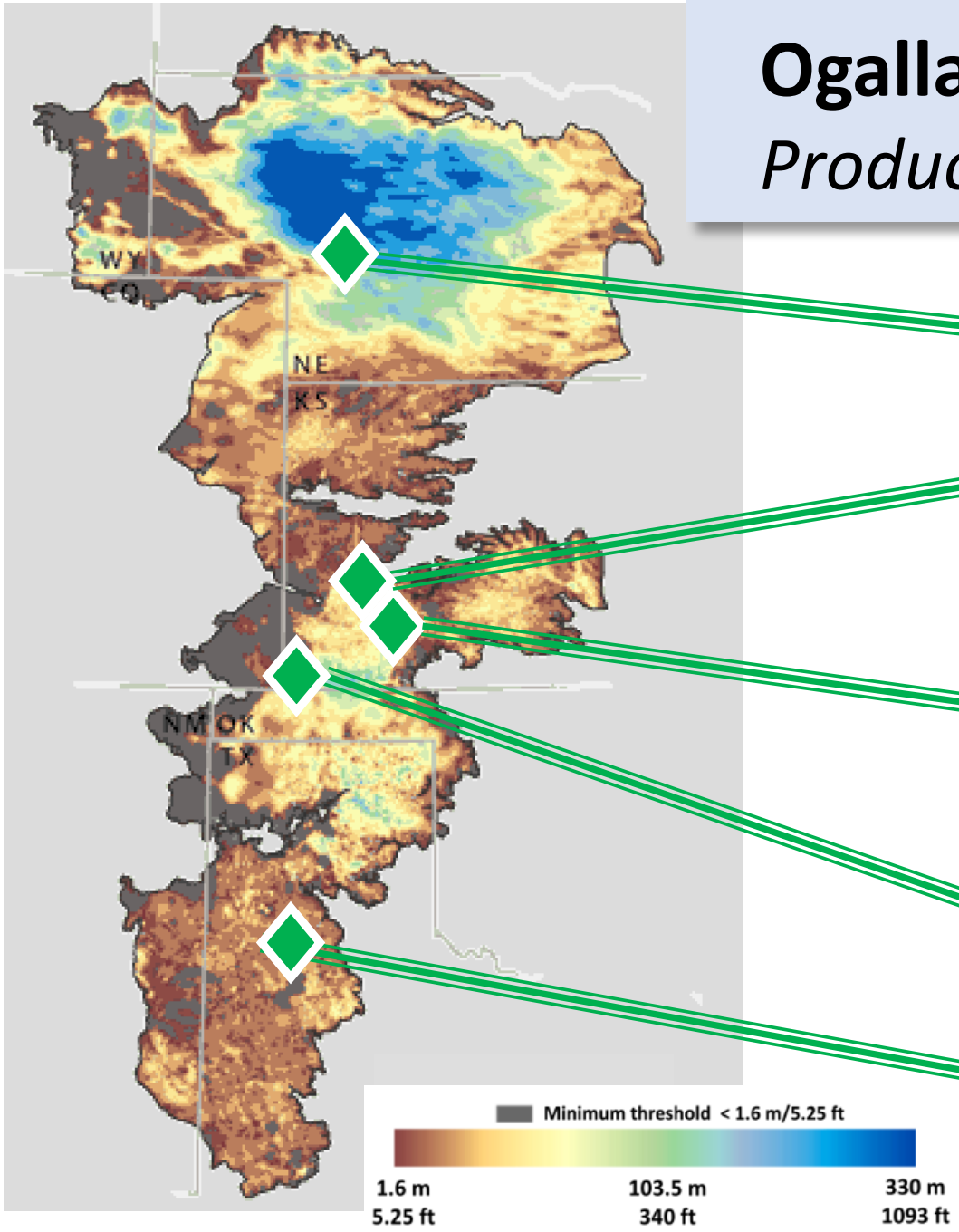

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