

# **2014 Crop Management Diagnostic Clinics – Precision Ag**

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## Sensing OM with Veris MSP3 Technology



Two-band optical sensor:

- Red at 660 nm
- NIR at 940 nm

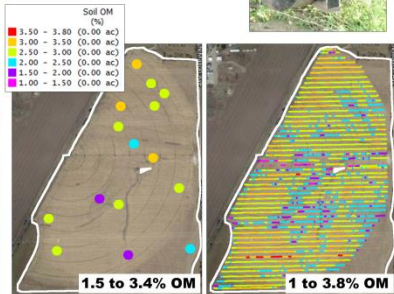
Field data collected (along with EC and pH) with GPS data

Soil samples must be collected to calibrate OM sensor readings

Additional costs to consider

Opportunities for data usage from OM sensor:

- Variable-rate herbicide
- N prescription adjustment

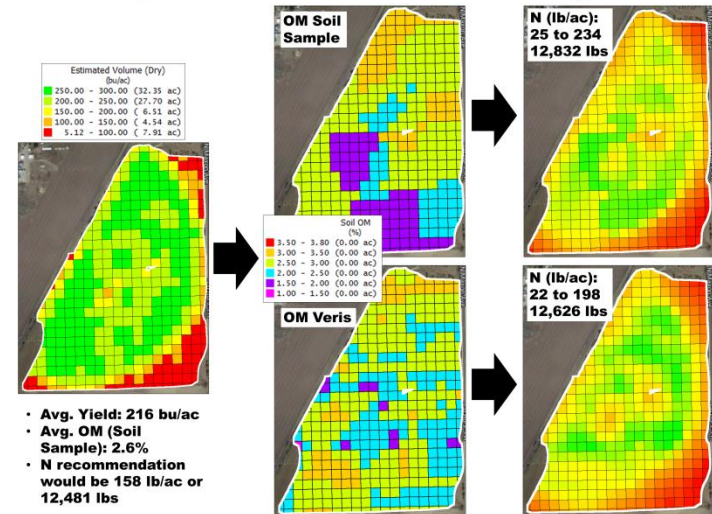


Soil sample data collection points (left) with Veris MSP3 OM data points (right).

$$N \text{ need (lb/ac)} = [35 + (1.2 \times EY) - (8 \times NO_3\text{-N ppm}) - (0.14 \times EY \times OM) - \text{other N credits}] \times Price_{adj} \times Timing_{adj}$$

2014CMDCPrecisionAg-LUCK (1)

## Example N Recommendation Adjustment



2014CMDCPrecisionAg-LUCK (2)