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

Example N Recommendation Adjustment

- Avg. Yield: 216 bu/acre
- Avg. OM (Soil Sample): 2.6%
- N recommendation would be 158 lb/acre or 12,481 lbs

N need (lb/acre) = }\left[25 + \left(1.2 \times \text{EF} - 8 \times \text{NO}_3 - 1.14 \times \text{EF} \times \text{OM}\right) - \text{other N credits}\right] \times \text{Price}_{\text{N}} \times \text{Timing}_{\text{N}}