



FARM Environmental Stewardship

Version 3 Evolution



FARM Environmental Stewardship

Quantifies a dairy farm's GHG + energy use footprints and asks about the use of nutrient management plans

Status and Updates

- **2,600+** FARM ES assessments completed through Q1 2022
- **41** participating co-ops and proprietary processors representing **80%** of milk supply
- Implemented by trained, second-party evaluators
- Free resources online to support continuous improvement



FARM ES Version 3.0

Farmer-focused evolution with more insight and benefit at the farm level



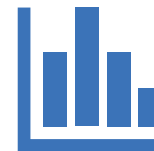
RuFaS, a process-based model, as new “engine” in Version 3 (2024)



Account for physical, chemical, and biologic cycles



Provide ability to extrapolate beyond known conditions (“what-if” scenario analysis)

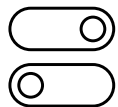


Generate environmental and economic analysis of multiple management scenarios

FARM ES, as it’s built today, cannot complete these more complicated calculations



Farmer Benefits



Toggle on/off

- Based on their available information and time, producers will be able to toggle on/off inputs (choosing to use default values or input their own data)



3 Levels

1. **Basic GHG accounting** – inputs similar to FARM ES today, but with updated calculations + carbon sequestration included
2. **Advanced GHG accounting & scenario planning** – enter additional data for more accurate results and perform scenario analyses
3. **Environmental financing access (pending market development)** – collect/document data allowing for increased/new market opportunities



Addressing Supply Chain Interests

Key needs for addressing supply chain interests	Current FARM ES	Evolved FARM ES
Aggregate data for GHG / Scope 3 reporting to customers	X	X
Plan out potential GHG reduction strategies to contribute to customer GHG reduction goals		X
Assess GHG emissions and sequestration opportunities in feed / forage production		X

Additionally, a tool that offers more producer-level insights will encourage greater adoption; and with it, more customer buy-in.



Stakeholder Engagement

We will solicit feedback and engagement throughout the process

Development Phase

Version 3 Working Group of farmers, evaluators, co-op / processor staff

Model Validation with diverse set of farmers

Feedback Sessions with farmers, evaluators, and co-op / processor staff

Beta Pilot

Feedback Survey from farmers

Debrief Meeting with evaluators and co-op / processor staff



Thank You

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