

# FARM Environmental Stewardship today



Quantifies a dairy farm's GHG + energy use footprints and asks about the use of nutrient management plans to enable supply chain transparency and support continuous improvement

#### **Status**

- 2,300+ FARM ES assessments completed
- 37 FARM ES Participants (co-ops and proprietary processors) representing 80% of milk supply
- Implemented by trained, 2<sup>nd</sup> party evaluators
- Resources to assist with implementation and continuous improvement



## Next version of FARM ES improves on strong foundation

### **FARM ES Today**

- Over 2,300 evaluations conducted; not too time-consuming
- Establishes baseline GHG footprint
- Built on cutting-edge research led by U.S. dairy, published in 2013
- 4 Enables co-ops and processors to report farmgate Scope 3 emissions to customers

### **Going Forward**

- Remain easy to use; connect w/on-farm software to streamline data collection
- Offer environmental and economic insights to assist in decision making
- Incorporate new research + enable simpler future updates
- Facilitate goal-setting at the co-op / processor level to meet growing customer interests

# RuFaS, a process-based model, will be the new "engine" of FARM ES Version 3 (July 2024) to provide a more robust tool



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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

# FARM ES v3 will meet producers where they are



### 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
- 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



# FARM ES v3 enables processors and co-ops to better meet customer requests

Key needs for addressing customer requests	Current FARM ES	Evolved FARM ES
Aggregate data for 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; making roll-out and customer GHG reporting easier.

## Stakeholder awareness and engagement is key

# Promote awareness through regular updates

- FARM ES Governance Channels
  - FARM ES Task Force
  - NMPF Environmental Issues Committee
  - NMPF Board of Directors
- Innovation Center for US Dairy Channels
  - IC Environmental Stewardship Committee
  - IC Stewardship Commitment Committee
  - Dairy Sustainability Alliance's Restaurant and Food Retail Working Group
  - Dairy Sustainability Alliance Webinar(s)
  - IC Board of Directors

# Solicit feedback and engagement throughout the process

- Development Phase
  - Feedback Sessions with farmers, evaluators, and co-op / processor staff
  - **Bi-Monthly Working Group** of farmers, evaluators, co-op / processor staff
- Pilot Phase
  - Feedback Survey from farmers
  - Debrief Meeting with evaluators and co-op / processor staff

# Additional resources available or in development today

### Environmental Stewardship Consideration and Resources Guide (available today)

- A customizable checklist of opportunities to reduce the environmental footprint in the areas of manure, animal, feed, and energy management
- Organizations using the resource guide can add in information about local contacts available to support farmers in each of those management areas

### Conservation Practice Questionnaire (Target: mid 2022)

 Optional add-on questionnaire to FARM ES evaluation that addresses topics beyond GHGs that are of growing customer interest

### Practices and Technologies for GHG Mitigation (Target: late 2022)

- Select list of practices / technologies with an expected range of GHG reduction potential
- Resource useful for strategizing around GHG reduction goals; for example, helping to answer customer
  questions about how the supplier plans to contribute to GHG reduction targets

# Timeline to FARM ES v3 launch in July 2024



