



# Welcome!

Thank you for participating in the Leading Harvest Farmland Management Standard Metrics Pilot. Your involvement in this project is a direct extension of the work you have already contributed, through focus groups, surveys, and convenings, to help shape what a meaningful, practical metrics standard looks like for farmland managers and asset managers. This pilot is the next step in that process. It moves from asking what metrics matter to actually testing whether those metrics can be collected, what the data looks like in practice, and where the gaps are. The findings will directly inform whether and how Leading Harvest incorporates a metrics module into the Farmland Management Standard.

## Saving Your Work

You can save and come back to this pilot at any point. Scroll to the bottom of the page and click "save". You will receive an email with a link to return.

## Privacy Statement

Data privacy is important to us: Participation in this pilot asks participants to report metric data to Leading Harvest and its consultancy partner. All data will be 1) held confidentially and 2) only be reported out in the aggregate, 3) without the disclosure or identification of participating entities. Important to note: If metrics are subsequently incorporated into the Leading Harvest Farmland Management Standard, Program Users would not be required to report data directly to Leading Harvest. Rather, third-party auditors would be seeking conformance evidence that management systems are in place to collect and manage this data, consistent with how the Farmland Management Standard operates today.

## Background & Pilot Scope

**Organization Name \***

**Primary Contact Name \***

**Title / Role \***

**Contact Email \***

example@example.com

**Country or Countries of Primary Operation \***

**Are you currently participating in any external sustainability frameworks or certification programs?**

**Frameworks / Programs That Apply**

- Fair Trade
- Organic
- Regenerative Agriculture
- B Corp
- Sustainable Agriculture Initiative (SAI)
- Roundtable on Sustainable Palm Oil (RSPO)
- Rainforest Alliance
- Global G.A.P.
- Other

**Do any of your buyers, investors, or lenders currently require sustainability metric reporting from you?**

**Briefly describe what is being requested for reporting.**

**Are you currently subject to any regulatory reporting requirements related to water, GHG emissions, or land use?**

**Name of the Program or Requirement**

**What platforms or systems do you currently use to track farm management data?**

- Spreadsheet
- Enterprise Resource Planning (ERP) System
- Farm Management Information System (FMIS)
- Accounting System
- Geographic Information System (GIS)
- Satellite or Remote Sensing Platform
- Data Warehouse or Business Intelligence Tool
- Manual Paper Records
- Other

**Please name the farm management software used.**

**Is farm-level data centrally managed by your organization or distributed across operators or tenants?**

**How is your Pilot Subset defined? \***

**Brief Description of the Subset \***

**Why This Subset Was Chosen \***

**Total Acres in This Pilot Subset \***

**Primary Crop(s) or Commodity Type(s) in This Subset \***

- Soybeans
- Wheat
- Cotton
- Rice
- Almonds
- Tree Nuts, other than almonds
- Perennial Fruit
- Alfalfa
- Vegetables (not including potatoes)
- Potatoes
- Range/Pasture
- Other

**Operation Type for This Subset \***

**Proportion of This Subset Tenant-Operated vs. Directly Operated \***

**Geography / State(s) / Region(s) Included in the Subset \***

**Are you aware of any significant data limitations or gaps for this subset before beginning? \***

**Description of Known Limitations or Gaps**

**Metrics Data Collection: Soil Health**

## Soil Organic Matter (SOM)

**Do you have soil organic matter data available for your pilot subset for 2024 or 2025? \***

**Soil organic matter value- average for pilot subset (%)**

**What is the sample depth for this value? (ex. 0-6 in, 0-30 cm)**

**What is the sampling method for SOM samples?**

- Grid sampling
- Management zone sampling
- Random composite
- Other

**What lab analysis method was used for calculating SOM?**

- Loss on ignition (LOI)
- Dry combustion
- Walkley-Black
- Other

**Was the same lab analysis method used consistently across all reported acreage?**

- Yes
- No
- Unsure

**Is this value a lab-measured value or modeled value (ex. using remote sensing)?**

**If the value was provided using modeling, what platform was used?**

**What was the date of the most recent sample?**

Month Day Year

**What is the reporting cadence for SOM across pilot acreage?**

**Do you have historical data for SOM prior to 2024?**

Yes

No

**If you have access to historical SOM data, what is the direction of change historically?**

**Is SOM currently sampled as part of an existing agronomic or soil health program?**

Yes

No

**What is your primary barrier to more consistent SOM sampling, if any?**

Cost

Tenant access

No existing program in place

No barriers exist

Other

## **Aggregate Stability**

**Do you have aggregate stability data available for your pilot subset for 2024 or 2025? \***

**Aggregate stability value or score- average for pilot subset**

**What method was used to assess aggregate stability?**

**What is the sample depth for this value? (ex. 0-6 in, 0-30 cm, N/A)**

**What is the sampling method for aggregate stability samples?**

- Grid sampling
- Management zone sampling
- Random composite
- Other

**Was the same lab analysis method used consistently across all reported acreage?**

- Yes
- No
- Unsure

**What was the date of the most recent sample?**

Month Day Year

**What is the reporting cadence for aggregate stability across pilot acreage?**

**Do you have historical data for aggregate stability prior to 2024?**

- Yes
- No

**Is aggregate stability currently sampled as part of an existing agronomic or soil health program?**

- Yes
- No

**What is your primary barrier to more consistent aggregate stability sampling, if any?**

- Cost
- Tenant access
- No existing program in place
- Other

**Nutrient Use Efficiency- Nitrogen**

Total nitrogen removed in crop harvest ÷ Total nitrogen applied as inputs. A ratio below 1.0 indicates more N was applied than removed. A ratio above 1.0 indicates more N was removed than applied.

**Are you able to calculate NUE for your pilot subset for 2024 or 2025? \***

For cropping systems that include more than one crop type, calculate the NUE for the crop type that makes up the most significant portion of the pilot acreage.

**NUE Ratio (N removed ÷ N applied) calculated for pilot subset**

**What nitrogen input sources were included in that calculation? (select all that apply)**

- Synthetic fertilizer
- Compost
- Manure
- Legume cover crops
- Legume rotational crop credit
- Other

**If organic inputs (like manure or legumes) were used in the calculation, how was N contribution estimated?**

- Manure nutrient analysis
- Standard book values
- Agronomist estimate
- University reference/resource
- Other

**What was the source used for yield in the calculation?**

- Farm yield records- manual (ex. scale or box weights)
- On-farm yield monitor
- Elevator receipts
- Estimated
- Other

**What was the source for estimating crop removal coefficient for the calculation?**

- Crop testing (ex. tissue or sap samples)
- University or extension reference/resource
- Agronomist recommendation
- Other industry reference
- Other

**What percent of acres in the pilot are represented by this calculation? (%)**

**Is NUE already calculated as part of existing operations, or was it calculated new for the pilot?**

Already calculating

Calculated new for pilot

**For systems with multiple crops included in the pilot acreage, is the breakdown of NUE available by crop type?**

Yes

No

**Do you have nitrogen application records?**

Yes

No

Partial

Other

**Do you have yield records?**

Yes

No

Partial

Other

**Are there data gaps that exist for getting data needed to calculate NUE?**

Yes- infrastructure gap (data exists, but not organized)

Yes- data access gap (data exists, but is not available)

No significant data gaps exist

Other

**If NUE data currently used to inform nitrogen application decisions?**

Yes

Not Yet

No

## **Metrics Data Collection: Biodiversity**

## Crop & Rotation Diversity Index

Report on the 3-year rotation window: 2023, 2024, and 2025. An intentionally planted species includes any cash crop, cover crop (each species in a mixture counted individually), companion crop, or nurse crop. Variety-level distinctions within a single species do not count as separate species.

**Do you have rotation or species planting records available for your pilot subset covering 2023–2025? \***

Yes

Partial (some years available)

No- data not available

**List all intentionally planted species across the 3-year window and approximate acreage or % across the pilot subset.**

**Simple species count: What is the total number of distinct intentionally planted species?**

**Are cover crops included in the species list?**

Yes

No

**Are nurse or companion crops included in the species list?**

Yes

No

**Shannon Diversity Index value (H'): State index value if calculated for the pilot acreage.**

Full Shannon Diversity Index definition and calculation can be found in the Data Collection Protocol document provided.

**Please note whether any significant changes in rotational diversity have been made over the 3-year window.**

**Is a species list or rotational record currently maintained as part of existing farm management records?**

- Yes
- Informally
- No- this was compiled new for the pilot
- Other

**Habitat Extent and Quality**

**Do you have habitat and edge of field data available for your pilot subset? \***

- Yes
- Partial
- No- data not available

**What habitat categories are present in the pilot subset acreage? (Select all that apply)**

- Vegetative or riparian buffers
- Pollinator habitat or insect refuge strips
- Wetlands (natural, restored or constructed)
- Intentionally fallow or idled land
- Managed forest or timberland
- Hedgerows or shelterbelts
- Native vegetation remnants or semi-natural areas
- Other

**For each of the habitats selected above, list the acreage or % area covered in the pilot subset. If data not available or unable to estimate, please note that.**

**Total habitat acreage (sum of above)**

## **Total pilot acreage**

### **How was acreage determined? (select all that apply)**

- GIS mapping
- Government records (ex. FSA)
- Aerial imagery
- Visual estimate
- Conservation program enrollment records
- Other

### **Are these habitat areas actively managed or passively present?**

- Actively managed
- Passively present
- Combination of both

### **If actively managed, briefly describe management approach (ex. annual mowing, prescribed burn, pollinator seeding).**

### **Is any habitat acreage enrolled in a formal conservation program?**

- Yes
- No
- Unsure

### **Is habitat acreage tracked in current reporting or management systems, or compiled new for pilot?**

- Currently tracked
- Compiled new for pilot

### **Do you currently use GIS or mapping tools to track habitat features?**

- Yes- in house
- Yes- through third party
- No
- Not yet- in development

## **IPM and Beneficial Insect Management**

**Are IPM being utilized or beneficial pest populations being actively managed on the pilot subset?**

\*

Yes

No- not applicable to this pilot subset

**Total pilot acreage managed under IPM practices during the reporting year (2024 or 2025).**

**How do you define IPM in your operation? (e.g. scouting-based spray decisions, biological control releases, economic threshold-based management, certified IPM program enrollment)**

**Do you have beneficial or pest insect monitoring data?**

Yes

No

**If yes, what is the monitoring method? (select all that apply)**

Field scouting

Sticky traps

Sweep net sampling

Drone-based monitoring

Third-party IPM consultant reports

Other

**During the growing season, what is the monitoring frequency?**

Weekly

At key phenological stages

Event based/issue based (as needed)

Other

**Are monitoring results quantitative or qualitative?**

Quantitative (counts, ratios)

Qualitative (presence/absence, relative abundance)

**What are the key beneficial or pest species monitored in your system?**

**Do you currently monitor beneficial insects separately from pest monitoring?**

- Yes- formally
- No- informally
- No

**Are biological control inputs used?**

- Yes
- No

**If biological control inputs are used, what are the type and acreage of each?**

**Is IPM acreage currently tracked for pilot subset, or was it estimated for the pilot?**

- Currently tracked
- Estimated for pilot
- A combination of both

**What do you consider barriers to more formal beneficial/pest monitoring?**

- Cost
- Time
- Lack of trained staff
- Other

## **Metrics Data Collection: Water**

**Irrigation Efficiency**

**Does the pilot subset include any irrigated acres? \***

Yes

No- entirely dryland or rainfed

**Reported irrigation efficiency for pilot subset acreage**

**Irrigation efficiency calculation used:**

Option 1: Applied water per acre (acre-inches or mm per acre)

Option 2: Applied water per unit of yield

Option 3: Irrigation water use efficiency (IWUE, yield per acre-inch or m3)

Other

**Crop type included in irrigation efficiency calculation**

**Data source for water application records**

Flow meter

Water district delivery methods

Irrigation management software

Regulatory compliance

Estimated from pump runtime

Other

**Total applied water for the reporting period (specify units)**

**Irrigated acreage in the pilot subset**

**What is the primary irrigation system type?**

Drip

Center pivot

Flood or furrow

Sprinkler

Subsurface drip

Other

**What was the source used for yield in the calculation? (if yield-normalized calculation used)**

- On-farm yield monitor
- Elevator receipts
- Estimated
- Other

**If pilot acreage falls under regulatory compliance program, which program does it fall under?**

- Sustainable Groundwater Management Act (SGMA) / Groundwater Sustainability Agency (GSA) compliance
- State Water Board or Regional Water Quality Control Board permit or reporting requirements
- Irrigated Lands Regulatory Program (ILRP) participation
- Voluntary water stewardship program (e.g., AWS, VWBA/WQBA)
- Murray-Darling Basin Plan
- Other

**How is irrigation scheduling informed?**

- ET- based
- Soil moisture sensors
- Calendar or crop stage based
- Experience based
- Combination approach
- Other

**Is irrigation efficiency currently tracked for pilot subset in existing management, or was it estimated for the pilot?**

- Currently tracked
- Calculated new for pilot
- A combination of both

**What are the primary barriers to more precise irrigation efficiency tracking?**

- Lack of flow metering
- Cost of monitoring equipment
- Data not accessible from tenants
- Other

**Groundwater Levels**

**What is the primary water source for your pilot subset acreage? \***

- Groundwater only
- Surface water only
- Mixed groundwater and surface water

Other

**Total groundwater withdrawal for the reporting period, specify units (acre-feet, gallons, m3, ML)**

**Total surface water withdrawal for the reporting period, specify units (acre-feet, gallons, m3, ML)**

**Total municipal, recycled or reclaimed water usage for the reporting period, specify units (acre-feet, gallons, m3, ML)**

**Data source for water application records**

- Pump/Flow meter
- Water district delivery methods
- Irrigation management software
- Regulatory compliance records
- Estimated from pump runtime
- Utility records
- Other

**Is withdrawal volume metered directly or estimated?**

- Metered directly
- Estimated

**Do you have water table depth data for your managed land?**

- Yes
- No

**Current water table depth, most recent measurement (specify feet or meters below surface)**

**Date of most recent water table depth measurement**

Month   Day   Year

**Does a historical baseline exist for water table depth?**

- Yes

No  
Unsure

**Do you currently monitor water table depth?**

Yes- formal monitoring  
Yes- informal monitoring  
No  
Not applicable

**Has water table depth changed noticeably over the past 3-5 years?**

Declining  
Stable  
Rising  
Unknown  
Not applicable

**What is the primary reason groundwater is not monitored, if applicable**

No groundwater use  
No monitoring infrastructure  
Data held by water district  
Not aware of how to monitor  
Not required or regulated  
Other

**Are you currently in or adjacent to a regulated groundwater basin or equivalent?**

Yes  
No  
Unsure

**Is groundwater withdrawal currently tracked for pilot subset in existing management, or was it estimated for the pilot?**

Currently tracked  
Compiled new for pilot  
Not applicable

**Nutrient or Sediment Load**

**Do you have nutrient or sediment load data (measured or modeled) for your pilot subset? \***

Yes- measured data  
Yes- modeled or estimated data  
Yes- both measured and modeled/estimated data

**Parameters reported & whether those parameters are measured or modeled (select all that apply)**

Measured                      Modeled                      No data available

Nitrate-Nitrogen

Total nitrogen

Phosphorus

Total suspended solids

Sediment

Other

**Reported values for each parameter:**

Value (specify units)

Nitrate-Nitrogen

Total nitrogen

Phosphorus

Total suspended solids

Sediment

Other (specify)

**For values provided via modeling, what was the model or tool used? (Ex. RUSLE/RUSLE2, University nutrient loss calculator, HowLeaky, SedNet)**

**What was the sampling location of water samples?**

Tile drain outlet

Field edge

Adjacent waterway

Ditch

Other

**What is the sampling method?**

Grab samples

Automated sampler

Continuous sensor

Third-party monitoring program

**What is the lab analysis method or monitoring program name?**

**What is the sampling frequency?**

- Annually
- Event-based
- Seasonal
- Continuous
- As needed
- Other

**Is sampling part of a formal compliance or conservation program?**

**If part of a formal compliance or conservation program, what is the name of that program?**

**Do you implement any edge-of-field or other conservation practices specifically for water quality?**

- Vegetative or riparian buffers
- Constructed wetlands or detention basins
- Filter strips
- Tile drain management
- Reduced or no-tillage practices
- Nutrient management planning
- Other

**What is the primary barrier for collecting water quality data from this pilot subset?**

- No sampling infrastructure
- Data held by tenant
- Cost of lab analysis
- Not aware of available tools
- Other

## **Metrics Data Collection: Climate**

## GHG Emissions – Carbon Intensity

**Do you have GHG emissions data (calculated or estimated) for your pilot subset for 2024 or 2025?**

\*

**Carbon intensity value**

**Units used for carbon intensity (kg CO<sub>2</sub>e per kg of product / kg CO<sub>2</sub>e per tonne of product / kg CO<sub>2</sub>e per acre)**

**Crop or commodity type**

**MRV Tool, Platform or Calculation Method Used**

Cool Farm Tool

Comet-FARM

Third Party Calculated

Industry Specific Tool (ex. FarmES)

Other

**Is the same MRV tool or calculation method used consistently across all reported acreage?**

Yes

No

**Acreage or proportion of pilot subset represented by calculation (include units)**

**Proportion of inputs used in MRV or calculation that were primary data vs. tool default values**

Primary data (most inputs from actual farm records)

Mixed (some primary, some default values)

Primarily defaults (most inputs from tool default values)

**Are you currently calculating carbon intensity as part of existing reporting obligations or voluntary programs?**

Yes- reporting obligations

Yes- voluntary  
programs

Yes- both obligations and voluntary programs

No- calculated new for pilot

**What do you consider your primary barrier to GHG reporting?**

No MRV tool in use

Lack of primary data

Unsure which tool to use

Not a current reporting requirement

Cost

Other

**Has carbon intensity data informed any on-farm or portfolio-level management decisions?**

Yes

Not yet- but we anticipate it will

No- primarily a reporting exercise

**Soil Carbon / Carbon Sequestration**

**Do you have soil carbon data available for your pilot subset? \***

Yes

No- data not available

**Soil carbon reporting format**

Concentration (% SOC or g C per kg soil)

Stock (tonnes C per acre or ha)

Both

**Soil Carbon Value**

(enter value & units matching above question)

**Was this value derived from a direct SOC measurement, or conversion from SOM?**

Direct SOC measurement

Conversion from SOM

**What is the sample depth for this value? (ex. 0-6 in, 0-30 cm)**

**Lab analysis method or modeled source**

Loss on ignition  
Calculated using SOM conversion  
Modeled

**If the value was provided using modeling, what platform was used?**

**What was the date of the most recent sample?**

Month Day Year

**What is the reporting cadence for SOC across pilot acreage?**

**Do you have historical data for SOC prior to 2024?**

Yes  
No

**If you have access to historical SOC data, what is the direction of change historically?**

**Is soil carbon currently tracked as part of existing reporting obligations or voluntary programs?**

Yes- reporting obligations  
Yes- voluntary programs  
No- reported new for pilot

**What is your primary barrier to more consistent SOC sampling, if any?**

Cost  
Tenant access  
No existing program in place  
Other

## **Land Use Change**

**Do you have information regarding land use change for pilot acreage? \***

**Did any permanent land use conversion occur on pilot acreage between 2020 and 2025?**

**If yes, what type of conversion occurred?**

- Natural or semi-natural to agricultural (forest clearing, native vegetation clearing, wetland drainage)
- Agricultural to natural or semi-natural (reforestation, wetland restoration, native vegetation restoration)
- Forest to non-forest agricultural
- Other

**Acreage involved in conversion**

**Approximate year of conversion**

**Are you currently subject to a deforestation-free supply chain requirement from a buyer or investor?**

**If yes, how is deforestation-free compliance currently documented and verified?**

**Is land use change currently tracked in existing reporting systems for pilot acreage?**

- Yes
- No - documented new for pilot

**Do you currently have GIS capacity to detect land use change from satellite or aerial imagery?**

- Yes- in house
- Yes- through third party
- No
- In development

**Metrics Data Collection: Social**

## **Safety Training Completion and Recordable Incident Tracking**

Farm-level labor data is important for this standard. Report what you have access to and document the scope clearly.

### **Reporting scope for this metric:**

- Direct employees of the managing entity
- Farm-level employees on directly operated acres
- Farm-level employees on tenant-operated acres
- Not able to report

### **If unable to report, please describe the limitation.**

### **Which safety training options are you able to complete?**

- % of employees completing annual training
- Hours of training per employee per year
- % of operations with a documented safety training program

### **Total employees in scope for pilot acreage/operation.**

### **Number of employees completing safety training in the reporting year.**

### **Is training conducted in-house or by a third party?**

- In-house
- Third party
- Both

### **Average hours of safety training per employee in the reporting year (either 2024 or 2025)**

**Percent of operations within the pilot scope/acreage with a documented safety training program.**

**Total recordable incidents in the reporting year (2024 or 2025)**

**What types of incidents are tracked?**

- Injuries
- Illnesses
- Near misses
- Other

**Is safety training completion tracked in existing HR or compliance systems?**

- Yes- all employees
- Yes- direct employees only
- Informally tracked
- No

**For tenant-operated systems, do you have visibility into safety training and incident data?**

- Yes
- Partial
- No- tenant does not share
- No- no system in place

**What is the primary barrier to more comprehensive safety tracking across pilot acreage/operations?**

- Tenant access
- No standardized system
- Cost
- Not a reporting requirement
- Other

**Agricultural Management Retention Rate**

In scope: permanent full-time farm managers, agronomists, field supervisors, operations managers, and sustainability managers with direct farm management responsibilities. Excluded: seasonal workers, H-2A or PALM scheme workers, independent contractors, corporate/financial/administrative staff

**Are you able to report either of the following metrics related to agricultural management retention rate:**

Option 1: Average Tenure

Option 2: Annual  
Retention Rate

Neither- data not available

**Option 1: Total number of permanent full-time agricultural management and supervisory staff are currently employed to manage pilot acreage.**

**Option 1: Average years of service for that population.**

**Option 1: Data source for that tenure information:**

HR records

Payroll records

Management estimate

Other

**Option 2: Total staff employed at start of reporting period (either 2024 or 2025)**

**Option 2: Total staff retained at end of reporting period (end of 2024 or 2025)**

**Option 2: Number who departed during that period.**

**Option 2: Data source for that tenure information:**

HR records

Payroll records

Management estimate

Other

**For tenant operated acreage, do you track farm management tenure?**

Yes

Informally

No

**For tenant operated acreage, what is the approximate average length of current management relationship on those acres?**

Less than 3 years

3-5 years

More than 10 years  
Mixed across portfolio  
I don't know

**Is management tenure or retention currently tracked in existing HR or portfolio management systems?**

Yes- formally  
Yes- informally  
No- compiled new for pilot

**What is the primary barrier to more formal retention tracking for the pilot acreage?**

No formal HR system  
Tenant access  
Not previously considered a metric  
Not a barrier  
Other

**Community Engagement Activities Annually**

This reporting metric can be a combination of overall company activities, along with specific involvement in the communities most relevant to pilot acreage. Active participation is the threshold across all four categories. Passive association (receiving newsletters, informal affiliations, or attending a conference without an active role) does not qualify. Report on calendar year 2024 and/or 2025.

**Are you able to report any of the following metrics related to annual community engagement activities:**

Category 1: Total number of active organizational memberships meeting the threshold (paying dues AND active involvement)  
Category 2: Total number of community events hosted, co-hosted, or actively participated in during the reporting year  
Category 3: Total organizational volunteering hours for the reporting year  
Category 4: Total number of qualifying supply chain or industry engagement activities during the reporting year  
Neither- data not available

**Category 1: Total number of active organizational memberships meeting the threshold (paying dues AND active involvement).**

**Category 1: List those organizations & organizational type**

**Category 2: Total number of community events hosted, co-hosted, or actively participated in during the reporting year.**

**Category 2: For each event, give a brief description, date, and approximate reach/attendance.**  
Cardinal Health. For the purpose of this report, only those events where the organization was in a leadership role.

**Category 2: Did any events involve engagement with indigenous communities?**

- Yes
- No

**Category 3: Total organizational volunteering hours for the reporting year.**

**Category 3: How were volunteer hours captured?**

- Formal tracking system
- Manager estimates
- Employee self-reporting
- Estimated from known activities
- Other

**Category 3: Is volunteering part of a formal organizational program or informally practiced?**

- Formal program
- Informally practiced
- Both

**Category 4: Total number of qualifying supply chain or industry engagement activities during the year.**

**Category 4: For each activity: Name the event/organization/initiative, nature of participation and approximate date.**

**Is community engagement tracked in existing CSR, stakeholder or management systems?**

- Yes- formally
- Yes- informally
- No- compiled new for pilot

**What is your primary barrier to more comprehensive community engagement tracking?**

- No formal tracking system
- Decentralized across operations
- Not previously a reporting requirement
- Other

## **Section 3: Pilot Feedback**

**How long did it take to compile the data and complete Part 1 and Part 2? \***

- Less than 1 hour
- 1-2 hours
- 2-4 hours
- 4-8 hours
- 8+ hours

**What was the most time consuming part of the data collection process? \***

**We will go into each metric specifically, but overall, how feasible was the data collection process for your organization? \***

1 2 3 4 5

Not Feasible

Very Feasible

**Was the Data Collection Protocol document useful and clear? \***

1 2 3 4 5

Not clear or useful

Very clear & Useful

**What would have made the data collection process easier? \***

## Soil Metrics

**Soil Organic Matter: Was data available for SOM for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Soil Organic Matter: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Soil Organic Matter: How influential is SOM in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Aggregate Stability: Was data available for aggregate stability for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Aggregate Stability: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Aggregate Stability: How influential is aggregate stability in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Nitrogen Use Efficiency: Was data available for NUE for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Nitrogen Use Efficiency: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Nitrogen Use Efficiency: How influential is NUE in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**What are your overall feelings on the soil health metrics and requested datapoints included in the pilot? Was there anything in particular that you found challenging? Positive or negative. \***

**Are there soil health metrics that you expected to be included, that weren't? \***

## Biodiversity Metrics

**Crop and rotational diversity: Was data available for crop & rotational diversity for your pilot acreage? \***

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

**Crop and rotational diversity: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Crop and rotational diversity: How influential is crop and rotational diversity in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Habitat Extent and Quality: Was data available for habitat extent and quality for your pilot acreage? \***

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

**Habitat Extent and Quality: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Habitat Extent and Quality: How influential is habitat extent and quality in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**IPM and Beneficial Insect Management : Was data available for IPM and beneficial insect management for your pilot acreage? \***

- Complete data provided
- Partial data provided
- No data available

Did not complete for  
another reason

**IPM and Beneficial Insect Management: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**IPM and Beneficial Insect Management: How influential is IPM and beneficial insect management in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**What are your overall feelings on the biodiversity metrics and requested datapoints included in the pilot? Was there anything in particular that you found challenging? Positive or negative. \***

**Are there biodiversity metrics that you expected to be included, that weren't? \***

## **Water Metrics**

**Irrigation Efficiency: Was data available for irrigation efficiency for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

Not applicable to pilot subset acreage

**Irrigation Efficiency: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Irrigation Efficiency: How influential is irrigation efficiency in on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Groundwater levels: Was data available for groundwater levels for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

Not applicable to pilot subset acreage

**Groundwater levels: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Groundwater levels: How influential is groundwater level to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Nutrient or Sediment Load: Was data available for nutrient or sediment load for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Nutrient or Sediment Load: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Nutrient or Sediment Load: How influential is nutrient or sediment load to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**What are your overall feelings on the water metrics and requested datapoints included in the pilot? Was there anything in particular that you found challenging? Positive or negative. \***

**Are there water metrics that you expected to be included, that weren't? \***

## Climate Metrics

**GHG Emissions – Carbon Intensity: Was data available for carbon intensity for your pilot acreage? \***

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

**GHG Emissions – Carbon Intensity: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**GHG Emissions – Carbon Intensity: How influential is carbon intensity to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Soil Carbon / Carbon Sequestration: Was data available for SOC for your pilot acreage? \***

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

**Soil Carbon / Carbon Sequestration: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Soil Carbon / Carbon Sequestration: How influential is SOC to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Land Use Change: Was data available for land use change for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Land Use Change: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Land Use Change: How influential is land use change to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**What are your overall feelings on the climate metrics and requested datapoints included in the pilot? Was there anything in particular that you found challenging? Positive or negative. \***

**Are there climate metrics that you expected to be included, that weren't? \***

## Social Metrics

### Safety Training and Incident Tracking: Was data available for safety training and incident tracking for your pilot acreage? \*

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

### Safety Training and Incident Tracking: How difficult was getting the required data? \*

1 2 3 4 5

Not Difficult

Difficult

### Safety Training and Incident Tracking: How influential is safety training and incident tracking to on-farm management and decision making? \*

1 2 3 4 5

Not influential

Very influential

### Do you have preference for one of the safety training and incident tracking metric options? \*

- Option 1: % completing annual safety training
- Option 2: Hours of safety training per employee per year
- Option 3: % of operations with a documented safety training program
- No preference

### Agricultural Management Retention Rate: Was data available for agricultural management retention rate for your pilot acreage? \*

- Complete data provided
- Partial data provided
- No data available
- Did not complete for another reason

### Agricultural Management Retention Rate: How difficult was getting the required data? \*

1 2 3 4 5

Not Difficult

Difficult

**Agricultural Management Retention Rate: How influential is agricultural management retention rate to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Do you have preference for one of the agricultural management retention rate metric options? \***

Option 1: Average tenure

Option 2: Annual retention rate

No preference

**Community Engagement Activities: Was data available for community engagement activities for your pilot acreage? \***

Complete data provided

Partial data provided

No data available

Did not complete for another reason

**Community Engagement Activities: How difficult was getting the required data? \***

1 2 3 4 5

Not Difficult

Difficult

**Community Engagement Activities: How influential is community engagement to on-farm management and decision making? \***

1 2 3 4 5

Not influential

Very influential

**Do you have preference for one of the community engagement metric category options? \***

Option 1: Organizational memberships

Option 2: Events

Option 3: Employee volunteering time

Option 4: Supply chain and industry engagement

No preference

**What are your overall feelings on the social metrics and requested datapoints included in the pilot? Was there anything in particular that you found challenging? Positive or negative. \***

**Are there social metrics that you expected to be included, that weren't? \***

**Last chance for feedback: Are there any overarching thoughts or feedback you'd like to provide regarding this pilot? \***

**May we contact you for a 1 hour follow-up interview? \***