



GROW CONFIDENTLY

**Leading Harvest  
Farmland Management Standard  
– Pasture and Livestock 2023**



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# SECTION 1

LEADING HARVEST  
FARMLAND MANAGEMENT  
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## Introduction

### What the Leading Harvest Standard Does

The *Leading Harvest Farmland Management Standard – Pasture and Livestock (Leading Harvest Standard\*)* identifies sustainable farming practices based on 14 Principles, 14 Objectives, 37 Performance Measures and 90 Indicators. It addresses economic, environmental, social and governance issues and includes measures to efficiently use water, *agricultural chemicals* and energy to grow *crops* for useful *agricultural products*; minimize waste; and conserve soils, water resources and *biodiversity*. It also takes into consideration the well-being of *pasture and farmland tenants*, employees, *contract management company employees*, contract farm labor and local communities. Conformance to the *Leading Harvest Standard* requires awareness and *appropriate* use of *regional agricultural best management practices* to advance sustainable agriculture.

### What is addressed by the Leading Harvest Standard?

The *Leading Harvest Standard* applies to any organization that owns or has management authority for *pasture or farmland (Standard user)* and the *land* that it chooses to enroll. This standard applies to animal agriculture operations. Objectives 1 and 7 through 13 apply to the *Standard user* and the management system it uses to manage enrolled *farmland*, except for Indicators 7.2.3, 7.3.1 and 9.4.1. Objectives 2 through 6 and Indicators 7.2.3, 7.3.1 and 9.4.1 apply to all *land* enrolled under the *Leading Harvest Standard*. The activities of *farmland tenants* may contribute to the Performance of the *Standard user* for Objectives 2 through 6 and Indicators 7.2.3, 7.3.1 and 9.4.1, but the *Standard user* is responsible for conformance to these Objectives, Performance Measures and Indicators. Indicator 13.1.4 applies to all *farmland tenants* of leased *farmland* enrolled under the *Leading Harvest Standard*.

### Geographic Application of the Leading Harvest Standard

The *Leading Harvest Standard* can be applied to *pasture and/or farmland* owned or managed by a *Standard user* in the United States. It may be adapted for use outside of the United States.

### Leased Farmland under the Leading Harvest Standard

The *Standard user* can credibly conclude that *farmland tenant* operations are in conformance with the *Leading Harvest Standard* where inspection of leased *land* and other supporting evidence can demonstrate that lessor operations are within the scope of Objectives 2 through 6 and Indicators 7.2.3, 7.3.1 and 9.4.1 of the *Leading Harvest Standard*. Inspections, annual interviews and desk audits may be permissible for verifying whether *pasture or farmland tenant* operations are within the scope of the *Leading Harvest Standard* when used to the scope and scale of the lessor's operations. For *pasture or farmland* leased and operated by tenants, Objectives 1 and 8 through 13 (except for Indicators 7.2.3, 7.3.1 and 9.4.1) apply to the *Standard user* and the management system it uses to manage *pasture or farmland*.

### Impact of Scope, Scale, and Size under the Leading Harvest Standard

The *Leading Harvest Standard* can be applied to farm or farm management units of any size. All *Standard users* are held to the same *Leading Harvest Standard*, but the expectation of evidence of conformance may vary with the scope and scale of the *Standard user* because scope and scale influence the risk of adverse impacts to society and the environment from agricultural operations. *Standard users* managing large acreages may need a greater level of conformance evidence than those managing modest acreages in order to demonstrate risk management sufficient to meet the requirements of the *Leading Harvest Standard*.

### References

This standard incorporates, by dated or undated reference, provisions from other publications. For dated and undated references, the latest edition of the publication applies.

#### Normative References

None.

#### Informative References

i. ISO 14001:2004 Environmental Management Systems—Specification with guidance for use.

\*All terms in italics are defined in the glossary.



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LEADING HARVEST FARMLAND MANAGEMENT STANDARD  
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### Leading Harvest Farmland Management Principles

*Standard users* believe *pasture and farmland* owners and producers have a vital stewardship responsibility and commitment to society and future generations. They recognize the importance of maintaining viable commercial and family *pasture and farmland* and supporting an agricultural system that renews its ability to provide food and other *agricultural products*, and sustains rural communities and natural resources. They seek to *appropriately* apply and improve *regional agricultural best management practices* on the *pasture and farmland* that they manage and promote such practices on other land to advance sustainable agriculture. Consistent with these responsibilities, *Standard users* shall have a written *policy* (or policies) demonstrating their commitment to implement and achieve the following principles:

#### Principle 1. Sustainable Agriculture

To practice sustainable agriculture to meet the needs of the present without compromising the ability of future generations to meet their own needs. This means practicing a *pasture and farmland* stewardship ethic that integrates profitable agricultural production with efficient use of inputs; the *conservation* of natural resources, including *farmland*; attention to *climate change* and land rights; and consideration for tenants, employees, contract workers, *Indigenous Peoples* and local communities.

#### Principle 2. Soil Health and Conservation

To maintain or enhance long-term *soil health* and *soil productivity* and to protect soil from degradation.

#### Principle 3. Protection of Water Resources

To conserve and protect *groundwater* and *surface water* resources by managing impacts from water use and *runoff*.

#### Principle 4. Protection of Crops

To ensure long-term *crop productivity* by *appropriate* use of *crop protectants* while protecting the environment.

#### Principle 5. Energy Use, Air Quality and Climate Change

To increase use of *energy-efficient agricultural practices* and equipment and to *minimize* atmospheric emissions.

#### Principle 6. Waste and Material Management

To promote the efficient production of *agricultural products* and to *minimize* waste by seeking other uses of waste.

#### Principle 7. Conservation of Biodiversity

To manage *pasture and farmland* in a manner that maintains agricultural production while conserving biological diversity—including animal and plant species, *wildlife habitats* and natural or ecological community types—and avoids *habitat* conversion.

#### Principle 8. Protection of Special Sites

To manage *pasture and farmland* that is geologically or culturally important in a manner that considers its unique qualities.

#### Principle 9. Local Communities

To contribute to the economy and well-being of rural communities through jobs, local purchases, other contributions, efforts to maintain community health and safety, and by respecting land and resource rights of local communities and *Indigenous Peoples*.

#### Principle 10. Employees and Farm Labor

To provide a safe and respectful working environment, fair compensation and training for employees; *contract management company* employees; and farm labor necessary to improve the practice of sustainable agriculture.

#### Principle 11. Legal and Regulatory Compliance

To comply with applicable federal, state and local agricultural and related laws, statutes and regulations.

#### Principle 12. Management Review and Continual Improvement

To continually improve the practice of agricultural management and to monitor, measure and report performance in achieving the commitment to sustainable agriculture.

#### Principle 13. Tenant-Operated Operations

To promote the application of *regional agricultural best management practices* on tenant-operated or share farming arranged *pasture and farmland*.

#### Principle 14. Animal Well-Being

To ensure the basic *physiological* and *behavioral* needs of animals are met; with a goal of avoiding unnecessary animal stress and prioritizing animal health and continual improvement in *animal husbandry* practices.

## Leading Harvest Standard Objectives

A summary of the *Leading Harvest Standard objectives* follows:

### Objective 1. Sustainable Agriculture Management

To practice sustainable agricultural stewardship to improve production and ensure long-term agricultural sustainability.

### Objective 2. Soil Health and Conservation

To maintain or enhance *soil health* to optimize yield and protect long-term *soil productivity* on *agricultural lands*.

### Objective 3. Water Resources

To protect water resources and manage water for efficient agricultural productivity.

### Objective 4. Crop Protection

To achieve *crop*, *pasture* and *animal health* protection goals while protecting people and the environment.

### Objective 5. Energy Use, Air Quality and Climate Change

To conserve energy used by agriculture operations and *minimize* adverse impacts to the atmosphere and the global climate.

### Objective 6. Waste and Material Management

To manage food waste, *agricultural chemicals* and other materials from agricultural operations to *minimize* their adverse impacts to people and the environment.

### Objective 7. Conservation of Biodiversity

To manage *pasture* and *farmland* in a manner that maintains agricultural production while conserving *biodiversity* where *appropriate* or legally required.

### Objective 8. Protection of Special Sites

To manage *special sites* on *pasture* and *farmland* that are geologically or culturally important in a manner that recognizes and respects their unique qualities.

### Objective 9. Local Communities

To operate safely and responsibly; contribute to the economic well-being, social networks and health of local communities; and recognize and respect the rights of local communities and *Indigenous Peoples* in regions of agricultural operations.

### Objective 10. Employees and Farm Labor

To provide a safe and healthy working environment, fair compensation and training for *Standard user* personnel, *contract management company* employees and *contract farm labor* necessary to improve the practice of sustainable agriculture.

### Objective 11. Legal and Regulatory Compliance

To comply with applicable federal, state and local laws, statutes and regulations.

### Objective 12. Management Review and Continual Improvement

To promote *continual improvement* in the practice of sustainable agriculture by conducting management reviews and monitoring performance.

### Objective 13. Tenant-Operated Operations

To promote the use of *regional agricultural best management practices* on *farmland* leased by *farmland tenants* or under *share-farming* arrangements to broaden the practice of sustainable agriculture and to promote the efficient use of agricultural inputs and the management of adverse environmental impacts.

### Objective 14. Animal Well-Being

To ensure people responsible for animals have the required competencies to perform their responsibilities in such a manner that ensures the basic *physiological* and *behavioral* needs of animals are met; with a goal of avoiding unnecessary animal stress and prioritizing animal health and continual improvement in *animal husbandry* practices.



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#### Objective 1. Sustainable Agriculture Management

To practice sustainable agricultural stewardship to improve production and ensure long-term agricultural sustainability.

**Performance Measure 1.1 Sustainable Agricultural Stewardship:** *Standard users* shall demonstrate their commitment to sustainable agricultural stewardship of *farmland*.

*Indicator 1.1.1 Farmland Stewardship Commitment:* A written commitment statement and list of goals that describes the sustainable agricultural stewardship of *farmland*.

*Indicator 1.1.2 Farmland Stewardship:* Demonstration of the management of major synergies and tradeoffs between the economic, social and environmental dimensions of sustainable agricultural stewardship of *farmland* while ensuring long-term profitability and sustainability.

*Indicator 1.1.3 Farmland Conservation:* Conservation of *prime farmland* to avoid its conversion to nonagricultural uses when conversion would adversely impact regional agriculture.

**Performance Measure 1.2 Critical External Factors:**

*Standard users* shall manage for potential impacts of *critical external factors* to help ensure long-term profitability and sustainability of each farm or farm management unit by the *Standard user*.

*Indicator 1.2.1 Adapting to Critical External Factors:* A process for periodically identifying critical external factors and adapting to their impacts to ensure the long-term profitability and sustainability of agricultural production of a farm or farm management unit.

#### Objective 2. Soil Health and Conservation

To maintain or enhance *soil health* to optimize yield and pasture production and protect long-term *soil productivity* on *agricultural lands*.

**Performance Measure 2.1 Soil Health:** *Standard users* manage nutrients and apply practices to achieve *crop* yield, pasture production and maintain or enhance *soil health* of *farmland*.

*Indicator 2.1.1 Soil Quality:* Application of *regional agricultural best management practices* (e.g., tillage systems, *cover cropping*, addition of *soil amendments*, *pasture cover*, appropriate *rest periods*) to maintain or enhance *soil fertility* and physical and biological

characteristics of soil.

*Indicator 2.1.2 Soil Health Monitoring:* Monitoring of *soil health* characteristics, including nutrients from different sources necessary to maintain or enhance *appropriate* nutrient balance and *soil health*.

*Indicator 2.1.3 Nutrient Management Program:* An up-to-date *nutrient management program* that efficiently uses nutrient inputs, both synthetic and biological, and nutrients in the soil and *crops* or *pastures* to create optimum conditions for *crop* and *pasture* production and nutrient utilization and avoids nutrient loss to water and air.

*Indicator 2.1.4 Crop Residues:* Application of *regional agricultural best management practices* to use *crop residues* to maintain or improve *soil health* and long-term *soil productivity* where *appropriate*.

*Indicator 2.1.5 Effluent Application:* Manage the effect of *effluent addition* to land where *appropriate*, to minimize degradation of soil structure, salinization, waterlogging, chemical contamination or erosion, and to instead utilize the nutrient benefit of effluent application to land by following *best management practices* (e.g. *nutrient budgeting*) and soil and *effluent* testing advice.

**Performance Measure 2.2 Soil Conservation:** *Standard users* shall implement *agricultural practices* to minimize *soil erosion* and avoid degradation of *agricultural lands*.

*Indicator 2.2.1 Cropland Soil Management:* Application of *regional agricultural best management practices* to minimize *soil erosion* and physical damage (e.g., compaction) of *cropland* and restore *soil health* where *appropriate*.

*Indicator 2.2.2 Pastureland Soil Management:* Apply a process of *grazing management* that includes *regional agricultural best management practices* to maximize ground cover and minimize *soil erosion* and physical damage (e.g., compaction) of *pastureland*.

*Indicator 2.2.3 Degradation of Agricultural Lands:* A process to avoid the widespread loss of *agricultural lands* to *soil mismanagement* (e.g., failure to prevent extensive *soil erosion*, acidification, salinization, compaction, pugging, *overgrazing* and accumulation of other adverse compounds).

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#### Objective 3. Water Resources

To protect water resources and manage water for efficient agricultural productivity.

**Performance Measure 3.1 Water Use:** *Standard users shall conserve water resources and manage water use to avoid long-term depletion and maintain crop and pasture productivity.*

*Indicator 3.1.1 Agricultural Water Withdrawal: A process for avoiding the depletion of available surface water and groundwater resources beyond the recharge capacity of the watershed or catchment and by direct withdrawal where surface water or groundwater depletion is an issue as determined by a groundwater regulatory agency.*

*Indicator 3.1.2 Regional Water Conservation: Participation individually or collaboratively in regional water conservation programs where appropriate to help foster responsible use and conservation of groundwater and surface water used for agriculture.*

*Indicator 3.1.3 Water Conservation: A water management program that uses appropriate technology (including washdown and irrigation system design) and applies regional agricultural best management practices to utilize water efficiently; to provide water tailored to plant needs; and to control pests, pathogens, salinization and accumulation of other adverse compounds.*

**Performance Measure 3.2 Water Quality:** *Standard users shall apply a program to properly manage the use of fertilizers and other soil amendments, crop protectants, and other inputs, and impacts of livestock on waterways, to avoid release of sediment, nutrients or fecal contamination from agricultural lands into groundwater and surface water.*

*Indicator 3.2.1 Input Application on Agricultural Lands: Application of regional agricultural best management practices when applying fertilizers and other soil amendments, crop protectants and other agricultural inputs to avoid and control infiltration of nutrients, crop protectants and pathogens into groundwater and surface water.*

*Indicator 3.2.2 Water Quality Protection: Application of regional agricultural best management practices to manage water and effluent runoff from farmland into surface water and protect wetlands, riparian areas and water quality of groundwater and surface water.*

*Indicator 3.2.3 Water Quality Protection from Livestock: Application of regional agricultural best management practices to protect surface water, wetlands, and riparian areas from the impacts of livestock.*

#### Objective 4. Crop Protection

To achieve crop and pasture protection objectives while protecting people and the environment.

**Performance Measure 4.1 Integrated Pest and Disease Management:** *Standard users shall protect crops and pasture against pests and disease by implementing an Integrated Pest Management program that uses regional agricultural best management practices to achieve plant protection objectives.*

*Indicator 4.1.1 Pest and Disease Monitoring: Monitoring of pests to prevent excessive crop or pasture loss and economic injury to crop or pasture plants.*

*Indicator 4.1.2 Plant Protection: A process for preventing excessive crop or pasture loss from pests, crop or pasture protectant resistance and buildup and spread of pests.*

*Indicator 4.1.3 Pest Control Practices: Prioritization of the use of lowest risk, most selective treatment options to achieve plant protection goals whenever appropriate.*

**Performance Measure 4.2 Plant Protectant Management:** *Standard users shall select, use and store plant protectants in accordance with label instructions and regulatory requirements.*

*Indicator 4.2.1 Application and Storage of Plant Protectants: Application and storage of plant protectants according to label instructions and regulatory requirements and application of practices to protect employees, farm workers, public health, and the environment and avoid drift of plant protectants offsite.*



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#### Objective 5. Energy Use, Air Quality and Climate Change

To conserve energy used by agricultural operations and *minimize* adverse impacts to the atmosphere and the global climate.

##### Performance Measure 5.1 Agricultural Energy Use and

**Conservation:** *Standard users* shall conserve energy resources, especially fossil fuels, used by agricultural operations.

*Indicator 5.1.1 Energy Conservation:* Use of technologies and application of *regional agricultural best management practices* to conserve energy where *appropriate*.

*Indicator 5.1.2 Renewable Energy:* Use of *renewable energy* technologies and application of *regional agricultural best management practices* where *appropriate*.

**Performance Measure 5.2 Air Quality:** *Standard users* shall *minimize* adverse impacts to air quality from agricultural operations.

*Indicator 5.2.1 Air Emissions:* Use of *low-emission technologies* and *methane abatement practices* when compatible with *regional agricultural and animal welfare best management practices and guidance information*.

*Indicator 5.2.2 Airborne Dust Control:* Application of *regional agricultural best management practices* to *minimize* airborne dust where and when it adversely affects human health and/or the environment.

*Indicator 5.2.3 Odor Management:* Minimize off-site nuisance or interference with amenity, such as odors associated with inappropriate or poorly operated waste treatment processes.

##### Performance Measure 5.3 Climate-Smart Agriculture:

*Standard users* shall apply the principles of *climate-smart agriculture* to reduce adverse impacts to the global climate and adapt to *climate change*.

*Indicator 5.3.1 Greenhouse Gas Emissions:* Application of climate-smart regional *agricultural best management practices* that *minimize* greenhouse gas emissions from agricultural operations and farmland and/or sequester greenhouse gases that contribute to *climate change* where *appropriate*. Examples could include, but are not limited to, application of *low-emission technologies* and practices that reduce use of agricultural inputs or their volatilization, increase carbon sequestration, and reduce volatilization of *greenhouse gases*.

*Indicator 5.3.2 Climate Change Adaptation and Resilience:* Application of climate-smart regional *agricultural best management practices* to adapt to *climate change* impacts and enhance farm or management unit resilience where *appropriate*. Examples could include, but are not limited to, use of heat-resistant *crop/pasture* varieties, new *crop/fodder* species, practices that improve soil moisture retention and soil drainage, and training on management of new *crop/pasture pests* or *livestock diseases*, *provision of additional shade/shelter for livestock*, *increased security of livestock drinking water system*.

#### Objective 6. Waste and Material Management

To manage waste, *agricultural chemicals* and other materials from agricultural operations to *minimize* their adverse impacts to agriculture and the environment.

##### Performance Measure 6.1 Management of Waste and Other

**Materials:** *Standard users* shall *minimize* solid waste and hazardous waste from agricultural operations and manage waste and *agricultural chemicals* in compliance with applicable laws, statutes, and regulations.

*Indicator 6.1.1 Waste Disposal:* A process for properly handling and disposing of *universal, hazardous and solid waste*.

*Indicator 6.1.2 Resource Recovery:* A process for properly handling waste to be re-used, re-purposed or recycled, or converted to energy, where *appropriate*.

*Indicator 6.1.3 Management of Agricultural Chemicals and Other Materials:* Management, use and storage of *agricultural chemicals, animal health products* and equipment gases, fluids and fuels according to regulatory requirements and application of practices to manage spills and protect employees, farm labor and the environment.

##### Performance Measure 6.2 Food and Agricultural Waste

**Resource Recovery:** *Standard users* shall ensure efficient handling and recovery of *agricultural products* and *agricultural waste* and manage dairy effluent in line with relevant legislative and guideline requirements.

*Indicator 6.2.1 Food and Agricultural Product Waste:* Prevention of excessive loss of food *crops* and other *agricultural products* during harvest and on-farm storage.

*Indicator 6.2.2 Resource Recovery of Agricultural Waste:* Reuse, repurpose, and/or recycle product or *crop residues, effluent, manure, other agricultural wastes* and/or agricultural inputs (e.g., tailwater recovery) where *appropriate*, such as the integration of cropping and livestock systems.

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*Indicator 6.2.3 Responsible and Efficient Management of Effluent:* Manage *effluent* in line with relevant legislative and guideline requirements, to protect surface and ground waters from impacts of effluent, contain effluent within the bounds of the property and utilize the nutrient resource appropriately on farm while avoiding environmental nuisance (odor, fecal matter, water impacts) to surrounding amenities and neighboring lands.

### Objective 7. Conservation of Biodiversity

To manage *pasture* and *farmland* in a manner that maintains agricultural production while conserving *biodiversity* where *appropriate* or legally required.

**Performance Measure 7.1 Species Protection:** *Standard users* shall protect threatened and *endangered species* and *viable occurrences of at-risk species*.

*Indicator 7.1.1 Threatened and Endangered Species:* Protection of *threatened and endangered species* when they occur on *enrolled farmland* and management of agricultural operations with consideration of *threatened and endangered species* in the local watersheds and landscapes of operation.

*Indicator 7.1.2 At-Risk Species:* Program to locate and protect known *viable occurrences of at-risk species* on *enrolled farmland*. A *protection program* may be developed independently or collaboratively and may use easements, *conservation land sales*, exchanges or other *conservation strategies*.

**Performance Measure 7.2 Wildlife Habitat Conservation:** *Standard users* shall conserve *native habitats, wildlife habitat, natural communities* and *Ecologically Important Sites* on *enrolled farmland*.

*Indicator 7.2.1 Native Habitats and Natural Communities:* Maintenance or *conservation of native habitats and natural communities* in areas not used for agricultural production.

*Indicator 7.2.2 Ecologically Important Sites:* Participation individually or collaboratively in plans or *programs* that manage *Ecologically Important Sites* in a manner that takes into account their unique qualities.

*Indicator 7.2.3 Cropland for Wildlife Habitat:* Application of *regional agricultural best management practices* on *cropland* to create temporary *wildlife habitat* where *appropriate*. Examples could include, but are not limited to, no-till practices, *cover cropping*, adding *soil amendments* made up of organic matter, bird boxes,

*soil erosion control structures* (e.g., grassed waterways), delayed mowing, *intercropping*, seeding areas with native *grassland seed mixes*, tailwater recovery ponds managed as *wetlands*, and water level management of rice fields for waterbirds.

*Indicator 7.2.4 Grazing Land for Wildlife Habitat:* Application of *regional agricultural best management practices* on *grazing land* to maintain and enhance *wildlife habitat* where *appropriate*. Examples could include, but are not limited to, appropriate stocking rates, appropriate fire/grazing regimes, protection of wetlands, riparian management.

**Performance Measure 7.3 Avoided Conversion:** *Standard users* shall avoid conversion of *natural forests*, other *natural communities* and *Ecologically Important Sites*.

*Indicator 7.3.1 Habitat Conversion:* Demonstration of commitment to avoid the *land use conversion* and fragmentation of *natural communities* and *Ecologically Important Sites* on *enrolled farmland*.

*Indicator 7.3.2 Deforestation:* Demonstration of commitment to prevent *deforestation of natural forest* when farming where biome-specific or geography-specific *deforestation protocol(s)* are in place, by:

(a) A written *policy* to demonstrate the *Standard user's* commitment to a zero *deforestation policy* that identifies the regions of application, relevant *natural forest types, appropriate deforestation cut-off date(s)* in areas with biome-specific or geography-specific *deforestation protocols*, and

(b) Demonstration of due diligence to prevent the acquisition of *farmland* that was converted from *natural forest* after an *appropriate deforestation cutoff date(s)* identified by the *Standard user* in areas with biome-specific or geography-specific *deforestation protocols*.

**Performance Measure 7.4 Crop and Pasture Diversity:** Support *crop and pasture diversity* on *farmland*.

*Indicator 7.4.1 Crop and Pasture Diversity:* Use of a variety of *crop and pasture species, crop and pasture varieties, companion crops* (e.g., *cover crops, cross-pollination donors*) and/or *crop/pasture rotation* where *appropriate*.



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### Objective 8. Protection of Special Sites

To manage *Special Sites* on *pasture* and *farmland* that are geologically or culturally important in a manner that recognizes and respects their unique qualities.

#### Performance Measure 8.1 Special Site Management:

*Standard users* shall manage *Special Sites* in a manner *appropriate* for their unique qualities.

*Indicator 8.1.1 Special Site Identification:* Use of information such as existing natural heritage data or expert advice in identifying or selecting *Special Sites*.

*Indicator 8.1.2 Special Site Management:* *Appropriate* mapping, cataloging and management of identified *Special Sites* in a manner that recognizes their unique qualities.

### Objective 9. Local Communities

To operate safely and responsibly; contribute to the economic well-being, social networks and health of local communities; and to recognize and respect the rights of local communities and *Indigenous Peoples* in regions of agricultural operations.

#### Performance Measure 9.1 Economic Well-Being:

*Standard users* shall foster the economic vitality of local communities through business practices that support sustainable agriculture and the local economy.

*Indicator 9.1.1 Economic Contributions:* Payment of federal, state and local taxes and, as *appropriate*, employment of staff from local communities and local procurement of supplies and services.

#### Performance Measure 9.2 Community Relations:

*Standard users* shall engage local communities to increase community awareness and support for the practice of sustainable agriculture and maintain or enhance *standard user* reputation.

*Indicator 9.2.1 Community Engagement:* Engagement in positive relationships with neighbors and local communities thus raising the awareness of sustainable agriculture.

#### Performance Measure 9.3 Local Communities and

**Indigenous Peoples:** *Standard users* shall recognize and respect rights of local communities and *the treaty rights of Indigenous Peoples*.

*Indicator 9.3.1 Local Community and Indigenous Peoples Policy:* A written *policy* demonstrating a commitment to recognize and respect the rights of local communities and *treaty rights of Indigenous Peoples*.

*Indicator 9.3.2 Land Tenure Rights of Local Communities and Indigenous Peoples:* Demonstration of due diligence to prevent infringing on the land tenure rights of local communities and *Indigenous Peoples* when purchasing and managing land.

*Indicator 9.3.3 Local Communities' and Indigenous Peoples' Inquiries:* Demonstration of commitment to be receptive to local communities' and *Indigenous Peoples'* inquiries and concerns.

**Performance Measure 9.4 Public Health:** *Standard users* shall apply measures to protect public health from adverse impacts of *enrolled farmland*.

*Indicator 9.4.1 Public Health and Safety:* Application of health and safety *regional agricultural best management practices* that protect public health from adverse impacts of *agricultural chemicals*, excessive nutrients, equipment gases and fluids, fuels and air pollution and that train employees to operate equipment safely.

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#### Objective 10. Personnel and Farm Labor

To provide a safe and healthy working environment, fair compensation and training for *Standard user* personnel, *contract management company* employees and contract farm labor necessary to improve the practice of sustainable agriculture.

**Performance Measure 10.1 Safe and Respectful Working Environment:** *Standard users* shall foster a culture of safety and respect among *Standard user* personnel and *contract management company* employees to *minimize* injuries, help establish safe routines and enhance employee productivity.

*Indicator 10.1.1 Equal Opportunity Employment:*  
Provision for equal opportunity employee recruitment and occupations.

*Indicator 10.1.2 Respectful Work Environment:* Maintain a safe, *gender equitable* and *professional work environment*.

**Performance Measure 10.2 Occupational Training:** *Standard users* shall provide training for *Standard user* personnel and ensure adequate training for *contract management company* employees necessary to improve the knowledge and practice of sustainable agriculture and low stress animal handling.

*Indicator 10.2.1 Personnel and Contract Worker Training:*  
Health, safety and occupational education and training for *Standard user* personnel and *contract management company* employees.

**Performance Measure 10.3 Supporting Capacity for Sustainability:** *Standard users* shall require *appropriate* training of *Standard user* personnel and *contract management company* employees so that they are competent to fulfill their responsibilities under the *Leading Harvest Standard*.

*Indicator 10.3.1 Sustainability Policy Commitment:*  
*Standard users* shall provide a written *policy* demonstrating commitment to the *Leading Harvest Standard* that is communicated throughout the organization, particularly to facility and farm managers.

*Indicator 10.3.2 Employee Roles and Responsibilities for Sustainability:* Assignment and understanding of roles and responsibilities for achieving the *objectives* of the *Leading Harvest Standard*.

*Indicator 10.3.3 Employee Sustainability Training:* Staff education and training for *Standard user* personnel and *contract management company* employees sufficient to fulfill their roles and responsibilities under the *Leading Harvest Standard*. Examples could include, but are not limited to, postsecondary degrees and professional certificates, in-house training, continuing education programs for managing waste, recycling, *plant and animal protectant* safety, professional development opportunities, and participation in agriculture-related professional organizations.

**Performance Measure 10.4 Compensation:** *Standard users* shall ensure adequate livelihood for employees and *contract management company* employees to attract and retain a stable workforce.

*Indicator 10.4.1 Wages and Pay:* Compensation to ensure a *living wage* for *Standard user* personnel and *contract management company* employees.

**Performance Measure 10.5 Farm Labor:** *Standard users* shall monitor contract management companies or *farm labor contractors* to help ensure farm labor working conditions consistent with the *Principles* and *Objectives* of *Leading Harvest Standard*.

*Indicator 10.5.1 Farm Labor Monitoring Program:* A program to monitor *farm labor contractors* employed by *Standard users* or *Contract Management Companies* to ensure compliance with applicable federal, state, and local labor laws, statutes, and regulations by reviewing policies, practices, and training addressing workplace environment, equal opportunity, worker health and safety, and compensation, including *living wage* and, where *appropriate*, housing and transportation.



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#### Objective 11. Legal and Regulatory Compliance

To comply with applicable federal state and local laws, statutes, and regulations.

**Performance Measure 11.1 Legal Compliance:** *Standard users* shall comply with applicable federal, state and local agricultural and related social and environmental laws, statutes, and regulations.

*Indicator 11.1.1 Access to Compliance Information:* A process by which personnel have access to information of relevant laws, statutes, and regulations in *appropriate* locations.

*Indicator 11.1.2 Standard User Compliance Program:* A program to achieve compliance with applicable federal, state or local laws, statutes, and regulations.

*Indicator 11.1.3 Compliance Commitment:* Demonstration of commitment to legal compliance through available *regulatory action information*.

#### Performance Measure 11.2 Legal Compliance Policies:

*Standard user* shall take *appropriate* steps to comply with all applicable social laws at the federal, state and local levels in the jurisdictions where the *Standard user* operates.

*Indicator 11.2.1 Written Compliance Policy:* A written policy demonstrating commitment to comply with social laws, such as those addressing civil rights, equal employment opportunities, anti-discrimination and anti-harassment measures, workers' compensation and *living wage*, *Indigenous Peoples'* rights, workers' and communities' right to know, prevailing wages, workers' right to organize, and occupational health and safety.

*Indicator 11.2.2 Consistency with International Labor Organization (ILO) Conventions:* Demonstration of commitment to respect the principles concerning fundamental rights set out in the ILO Declaration on Fundamental Principles and Rights at Work.

*Indicator 11.2.3 Consistency with Farmland Tenant Laws:* Demonstration of commitment to respect the rights of farmland tenants of leased lands with respect to the *covenant of quiet enjoyment* as determined by national, state and/or local laws, statutes, and regulations.

#### Objective 12. Management Review and Continual Improvement

To promote continual improvement in the practice of sustainable agriculture by conducting *management reviews* and monitoring performance.

#### Performance Measure 12.1 Farm Review and Continual Improvement:

*Standard users* shall establish a *management review* system to examine findings and progress in implementing the *Leading Harvest Standard*, improve resource-use efficiency of agricultural production, make *appropriate* improvements in *programs*, and inform their employees of changes.

*Indicator 12.1.1 Performance Review:* A system to review commitments, *programs*, procedures and measures of progress; evaluate their effectiveness; and review progress toward achieving goals for employees, contractors, use of agricultural inputs, management of adverse and positive environmental impacts, and agricultural production, including greater resource-use efficiency.

*Indicator 12.1.2 Monitoring Performance:* A program for collecting, reviewing and reporting information to management regarding progress in achieving *Leading Harvest Standard objectives* and *performance measures*.

*Indicator 12.1.3 Agricultural Innovation:* A process for identifying and considering opportunities for achieving improved farming efficiency, deploying improved technologies, and using new markets for underutilized *agricultural products*, *new plant or animal genetics* and low-grade agricultural materials (e.g., bioenergy markets).

*Indicator 12.1.4 Annual Review and Improvement:* An annual review of progress by management and determination of changes and improvements necessary to continually improve agricultural efficiency and farm conformance to the *Leading Harvest Standard*.

#### Performance Measure 12.2 Support for Sustainable Agriculture:

*Standard users* shall individually and/or through cooperative efforts support science-based agricultural research *programs* or partnerships or other efforts by associations to improve *soil health*, agricultural productivity and sustainable agriculture and animal management.

*Indicator 12.2.1 Support for Agricultural Research:* Participation individually or collaboratively in agricultural research or other science-based programs that improve the knowledge and practice of sustainable agriculture including animal management. Examples could include, but are not limited to, test plots for seed, plant or animal production trials or new practices; citizen science projects; demonstration days; research or partnerships to address agricultural productivity, *water quality*, community issues, animal health and welfare or similar topics that broaden the understanding of the benefits and impacts of sustainable agriculture.

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### LEADING HARVEST FARMLAND MANAGEMENT STANDARD – PASTURE AND LIVESTOCK 2023

#### Objective 13. Tenant-Operated Operations

To promote the use of *regional agricultural best management practices* on *farmland* leased by *farmland tenants* or *share-farming* arrangements to broaden the practice of sustainable agriculture and to promote the efficient use of agricultural inputs and the management of adverse environmental impacts.

**Performance Measure 13.1 Leased-Land and Share-Farm Management:** *Standard users* shall clearly define and implement strategies to ensure that *farmland tenant* and *share-farm* activities adhere to the principles of sustainable agriculture.

*Indicator 13.1.1 Leased-Land and Share-Farm Program:* A program to help ensure that *pasture* and *farmland* management complies with the *regional agricultural best management practices* and the *Principles* and *Objectives* of the *Leading Harvest Standard* as determined by a *Standard user, farmland tenants and share-farmer*.

*Indicator 13.1.2 Farmland Tenant and Share-Farm Agreements:* Written agreements with *farmland tenants* and *share-farmers* demonstrating their commitment to applying *agricultural practices* and *animal husbandry practices* consistent with *regional agricultural best management practices*.

*Indicator 13.1.3 Communicating Leased-Land Objectives:* A written statement clearly defining sustainable agriculture goals of the *Standard user* for leased *pasture* and *farmland* that is shared with *farmland tenants* and *share-farmers* and made available to *appropriate* stakeholders upon request.

*Indicator 13.1.4 Farmland Tenant and Share-Farmer Social Responsibility Commitment:* A written statement by *farmland tenants* and *share-farmers* demonstrating their commitment to operate safely and responsibly; provide a safe working environment; and comply with applicable federal, state and local laws, statutes, and regulations.

**Performance Measure 13.2 Leased-Land and Share-Farm Monitoring:** *Standard users* shall monitor *agricultural practices* used by *farmland tenants* or *share-farmers* to ensure their consistency with *regional agricultural best management practices*.

*Indicator 13.2.1 Verifiable Monitoring System:* Use of a *verifiable monitoring system* with:

*Indicator 13.2.1a* A process for monitoring the *agricultural practices* used by *farmland tenants* and *share-farmers*; and

*Indicator 13.2.1b* A process for evaluating application of *agricultural practices* by *farmland tenants* and *share-farmers* and identifying and communicating areas where *farmland tenants* and *share-farmers* can improve their performance and achieve greater consistency with *regional agricultural best management practices* and the *Principles* and *Objectives* of the *Leading Harvest Standard*.

*Indicator 13.2.2* Improvement of the *Verifiable Monitoring System:* A process for using information from the *verifiable monitoring system* to identify areas of performance improvement for the *verifiable monitoring system*.

**Performance Measure 13.3 Agistment Management and Monitoring:** *Standard users* shall clearly define and implement strategies to ensure that agistment activities adhere to the principles of animal well-being and are able to monitor these outcomes.

*Indicator 13.3.1 Agistment Program:* A program to help ensure that *animal* management complies with *animal well-being best management practices* and the relevant *Principles* and *Objectives* of the *Leading Harvest Standard* as determined by a *Standard user* and *agistor*.

*Indicator 13.3.2 Agistment Agreements:* Written agreements with the *agistor* demonstrating their commitment to apply *animal husbandry practices* consistent with *best management practices*.

*Indicator 13.3.3 Communicating Agistment Objectives:* A written statement clearly defining animal well-being goals of the *Standard user* for animals that are *agisted* off the enrolled *pasture* or *farmland* and made available to *appropriate* stakeholders upon request.

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#### Objective 14. Animal Well-Being

To ensure people responsible for animals have the required competencies to perform their responsibilities in such a manner that ensures the basic *physiological* and *behavioral* needs of animals are met; with a goal of avoiding unnecessary animal stress and prioritizing animal health and continual improvement in *animal husbandry* practices.

##### Performance Measure 14.1 Animal Health Program:

*Standard users* shall have an up-to-date herd health program that ensures *appropriate* animal nutrition, protection, health monitoring, breeding, and health treatments and is *appropriate* to the region of the *Standard user*, including relevant guidelines and standards.

*Indicator 14.1.1 Animal Care:* A process to ensure animals have reasonable access to food and water to meet nutritional needs, health, and production goals and animals are protected from external threats such as extreme weather events, predator impact and *biosecurity* hazards.

*Indicator 14.1.2 Animal Health Management:* management of animal health including:

- a) *Preventative Health:* A process for preventing *pests* and *disease* through *appropriate biosecurity*, *preventative health care* and *animal management best management practices*.
- b) *Monitoring Animal Health:* A *program* for inspecting, collecting information, and reporting on animal health on a regular basis, in accordance with *country or regional animal welfare best practices and/or guidelines*, with a focus on continuous improvement to increase accuracy and efficiency of record keeping.
- c) *Breeding for Animal Health and Production:* A *process* for identifying and selecting *desirable traits* best suited to the local environment, which maintain or improve animal health outcomes, as well as animal productivity.
- d) *Application of Animal Health Products:* A *process* for identifying and managing animal health conditions that require treatment using *animal health products* to alleviate or eliminate symptoms of ill health and/or improve lifetime *animal welfare*, with a focus on selecting the lowest risk, most selective treatment option.

*Indicator 14.1.3 Use of Animal Health Products:*

- a) *Prohibited Use of Health Care Products:* *Prohibition of the use of animal health products and supplements* to enhance animal growth or products that are not registered or permitted to use and/or trial. Note: this does not include *products* where the primary reason for administration is for animal health benefit.
- b) *Withholding Periods:* Application of a process to ensure all withholding periods or export slaughter intervals are met following applications of inputs to pasture or animals, including animal protectants, animal health products or feed treatments as per relevant legislation and guidelines to meet animal and human health objectives.
- c) *Storage of Animal Health Products:* Storage of *animal health products* shall be in accordance with the label instructions and regulatory requirements and application of practices to protect employees, farm workers, public health and the environment.

**Performance Measure 14.2 Animal Husbandry:** *Standard users* shall ensure best management practices are followed in accordance with *country or region animal welfare best practices and/or guidelines* for the industry in which it operates; underpinned by continuous improvement to reduce and/or eliminate *animal husbandry* methods that may compromise animal welfare.

*Indicator 14.2.1 Animal Handling:* Application of animal handling methods, including design of handling facilities and use of equipment, to minimize the occurrence of pain, stress or injury to the animal, and to improve handler safety.

*Indicator 14.2.2 Animal Transport:* Application of animal transport procedures that minimize stress on the animal and follow requirements of *country or region animal welfare best practices and/or guidelines* for the industry in which the *Standard user* operates and have a system to report concerns and/or adverse outcomes.

*Indicator 14.2.3 End-of-Life Care:* Administer safe, timely and humane euthanasia to prevent animals suffering, where treatment is not an option or has failed to improve the health of an animal.

*Indicator 14.2.4 Standard Animal Husbandry Procedures:* A process for implementing standard *animal husbandry* procedures, for *castration, tail docking (sheep)*, that result in benefits to lifetime animal welfare, better animal management, and/or improved occupational and animal health and safety.



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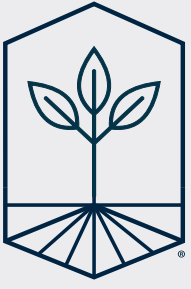
- a) *Discretionary Animal Husbandry Practices: A process for implementing discretionary animal husbandry procedures, such as mulesing, tail docking (cattle), dehorning, disbudding, calving induction, spaying, that result in benefits to lifetime animal welfare, better animal management, and/or improved occupational and animal health and safety in line with country or region animal welfare best practices and/or guidelines of the Standard user.*
- b) *Continuous Improvement of Practices: A process for continuous improvement in use of discretionary animal husbandry procedures, including adoption of pain relief and, where applicable, a program to move towards alternative practices/procedures to improve animal health and reduce pain.*

**Performance Measure 14.3 Calf-Rearing in Dairy:** *Standard users shall follow requirements of country or region animal welfare best practices and/or guidelines to ensure calves in calf rearing systems are adequately cared for.*

*Indicator 14.3.1 Monitoring and Managing Calf Feeding: Programs are to be undertaken to ensure calves receive appropriate nutrition and care to maintain or enhance calf health, including colostrum after birth.*

*Indicator 14.3.2 Calf Rearing System Management: A process for providing appropriate care to maintain and/or improve calf health in calf-rearing systems and protect them from external threats such as weather and predator impact, following requirements of country or regional animal welfare best practices and/or guidelines.*

*Indicator 14.3.3 Managing Surplus Dairy Calves: A program to demonstrate the adoption, or move towards the adoption, of practices designed to reduce the incidence of surplus dairy calves; otherwise healthy calves must not be euthanized on-farm.*



# SECTION 1

## GLOSSARY

**Agistment:** The movement of livestock from a property where there is little feed or water to another property where there are adequate supplies, generally in exchange for payment.

**Agistor:** The person who takes animals onto their land to graze in exchange for payment. Responsible for animal care when they are on their land.

**Agricultural chemicals:** Substances such as *fertilizers*, liming and acidifying agents, road dust stabilizers, *crop protectants* (including insecticides, herbicides, fungicides and nematicides) and other agricultural inputs used to enhance or support agriculture production.

**Agricultural land:** Land that is used directly or indirectly in the production of *Agricultural products* including *cropland*, grassland, rangeland, *pasture* and other land on which *Agricultural products* or livestock are produced and resource concerns may be addressed. It may include *cropped woodland*, marshes, incidental areas included in the agricultural operation, and other types of land used for production of livestock (USDA NRCS).

**Agricultural practices:** Specific methods including tillage system, planting, application practices for *fertilizers* and *crop protectants*, harvesting and other *cropping* practices that are applied to grow and harvest annual or perennial *crops* for food, animal feed, forage, fiber, oilseed and other *Agricultural products*.

**Agricultural products:** *Crops* for food, animal feed, forage, fiber, oilseed, medicine, cultural practices, fermentation products, or fuel, livestock and livestock products, including, but are not limited to, field crops, fruit, vegetables, nuts, grains, horticultural specialties, cattle, sheep, hogs, goats, horses, poultry, furbearing animals, milk, eggs, and furs (USDA).

**Agricultural waste:** Refers to *solid waste* that is generated by the rearing of animals or the production and harvest of *Agricultural products*. This may include, but is not limited to, poultry and livestock manure and residual materials in liquid or solid form generated from the production and marketing of poultry, livestock, furbearing animals, other livestock products and *crop residues* from row *crops* and permanent *crops* (US EPA).

**Animal health products:** Includes pharmaceutical, immunobiological and complementary products that can be administered to the animal, internally or externally, to manage a specific disease, condition or circumstance. The use of such products results in a direct affecting on the animal.

**Animal husbandry:** Breeding and caring for farm animals. It includes day-to-day care, selective breeding and the raising of livestock.

**Animal production:** The change in energy requirements to achieve production metrics regarding animal growth, liveweight gain, pregnancy, lactation and exercise.

**Animal welfare:** The state of an animal and how well it is coping with the conditions in which it lives.

**Appropriate:** Suitable or proper in the circumstances for a particular purpose. Considerations may include whether an activity will achieve the goal of an *indicator* or *performance measure* in a specific setting, is practical and reasonable and contributes to achieving regulatory compliance or obtaining social license.

**Appropriate deforestation cutoff date:** A date (day, month and year) specified by the most relevant biome- or geography-specific deforestation protocol(s) after which farmed land cannot have been deforested. An example of a relevant deforestation protocol could include, but is not limited to, the Canadian Boreal Forest Conservation Framework.

**At-risk species:** Species that have been highlighted by NatureServe as critically imperiled (G1) or imperiled (G2).

**Behavioral:** Reactions made in response to stimuli

**Biosecurity:** Biosecurity is the management of the risks to the economy, the environment, and the community, of *pests* and diseases entering, emerging, establishing or spreading. *Biosecurity* focuses on a hierarchy of controls, beginning with preventing the entry of *pests* into areas where they do not occur, monitoring for and eradicating those that do enter, and managing the negative impacts of those that become established (DAWE).

**Biodiversity:** The variety and abundance of life forms, *processes*, functions and structures of plants, animals and other living organisms, including the relative complexity of species, communities, gene pools and ecosystems at spatial scales that range from local to regional to global (SFI). This includes soil organisms, pollinators, beneficial organisms, agricultural and grassland plants and *wildlife*.

**Body condition score:** Assessment of the amount of fat and muscle covering the bones of animals.

**Castration:** The removal or disruption of the function of the testes by excision, or by constriction and / or crushing of the testicular blood supply (using a rubber ring, tension band or burdizzo clamp) or by dysfunction created by the cryptorchid method.

**Certification body:** An independent third party that is accredited and competent to conduct certifications to the *Leading Harvest Standard*.

† <https://www.natureserve.org>



**Climate change:** Change in the state of the climate that can be identified (e.g. by using statistical tests) by changes in the mean and/or the variability of its properties and that persists for an extended period, typically decades or longer. It may be due to natural internal *processes* or external forcings or to persistent anthropogenic changes in the composition of the atmosphere or in land use (Intergovernmental Panel on *Climate Change*).

**Climate-smart agriculture (practices):** Practices and principles that promote sustainable increases in agricultural productivity (including sustainable intensification) while adapting to *climate change* and reducing greenhouse gas emissions (Food and Agriculture Organization of the United Nations).

**Conservation:** 1. *Protection* of plant and animal *habitat*.  
2. Management of a renewable natural resource with the *objective* of sustaining its productivity in perpetuity while providing for human use compatible with sustainability of the resource.

**Construction:** Nature of facilities or equipment including the design, layout, installation, assembly of the facilities and the materials of which they are made.

**Contract management company:** A third-party company used by a *Standard user* to directly operate enrolled *farmland*.

**Covenant of quiet enjoyment:** A covenant that promises that the grantee or tenant of an estate in real property will be able to possess the premises in peace, without disturbance by hostile claimants. Quiet enjoyment is a right to the undisturbed use and enjoyment of real property by a tenant.

**Cover cropping:** Close-growing *crops* that provide soil *protection*, seeding protection and soil improvement between periods of normal crop production or between trees in orchards and vines in vineyards. This may include, but is not limited to, grasses, legumes and forbs for seasonal cover, soil improvement, and other *conservation* purposes (USDA).

**Critically imperiled:** A plant species, animal species or *natural community*, often referred to as G1, that is globally extremely rare or, because of some factor(s), especially vulnerable to extinction. Typically, five or fewer occurrences or populations remain, or very few individuals (less than 1,000), acres (less than 2,000 acres or 809 hectares) or linear miles (less than 10 miles or 16 kilometers) exist (NatureServe).

**Critical external factor:** Any off-farm attribute or factor that is materially and substantially relevant to the viability, long-term profitability, and sustainability of agricultural production of a management unit or farm. These may include economic factors (e.g., labor availability, regional market demand and opportunities, regulatory changes, *farmland tenant* availability, supplier availability and technological advancements), environmental factors (e.g., *climate change*, regional availability of water, and other inputs), and social factors (e.g., social license).

**Crop:** Plant species that are purposefully grown and/or harvested to satisfy human and livestock needs. They can include plants grown for food, feed, forage, fiber, decorative purposes, oilseed, medicine, cultural practices, fermentation products or fuel, including, but not limited to, field *crops*, hay or forage, fruits, vegetables, nuts, grains and horticultural specialties. *Cover crops* and companion *crops* may be considered *crops* if purposefully grown.

**Cropland:** Land used primarily for the direct production of *Agricultural products* for harvest, including, but not limited to, land in row *crops* or close-grown *crops*, forage *crops* that are in a rotation with row or close-grown *crops*, permanent hay land, horticultural *crops*, orchards, vineyards, *cropped* woodland, marshes, cranberry bogs and other lands used to produce *crops* (USDA NRCS).

**Crop productivity:** The inherent capacity of a particular site to produce a *crop*, often measured in volume or weight.

**Crop protectants:** Substances used to control weeds and unwanted or harmful *pests*, such as insects and mites, or pathogens on *agricultural lands*. They are divided into categories according to the target organisms they are designed to control (NRCS USDA). This includes herbicides (to control weeds and other plants), insecticides (to control insects), fungicides (to control fungi or other plant pathogens), nematicides (to control parasitic worms) and rodenticides (to control rodents). They also encompass soil fumigants, plant growth regulators, defoliant and desiccants. They can be synthetic (developed in laboratories and manufactured) or natural.

**Crop residues:** Materials from growing *crops* left on the soil surface or partially incorporated into the surface layer of *cropland* to reduce *soil erosion*, conserve soil moisture and improve soil tilth (USDA). These materials may include, but are not limited to, stalks, stubble, leaves, chipped branches and vines, woody biomass from orchard and vineyard redevelopment and seed pods.

† <https://www.natureserve.org>

**Crop genetic diversity:** Variation in genetic and phenotypic characteristics of plants used in agriculture. Its two components are the genetic diversity within each *crop* (within-*crop* diversity, including different *crop* varieties or hybrids of the same species) and the number of *crop* species commonly grown (between-*crop* diversity).

**Deforestation:** The conversion of *forest* to another land use or the long-term reduction of the tree canopy cover below the minimum 10 percent threshold. It includes areas of *forest* converted to agriculture, *pasture*, water reservoirs, residential and industrial areas, and urban areas (Food and Agriculture Organization of the United Nations).

**Dehorning:** The removal of attached horns.

**Desirable traits:** Breeding for traits that are more suitable for production systems and are conducive of reducing animal welfare issues (e.g., temperament, polledness, structural and udder soundness, disease and pest resistance, heat tolerance, doing or “fleshing” ability, mothering ability, and calving ease).

**Disbudding:** Removal of an area of skin including the horn bud in a young animal prior to solid attachment of the horn bud to the skull.

**Discretionary:** Available for use by the judgment of the user in consideration of a particular situation.

**Ecologically Important Sites:** Sites of exceptional ecological importance including areas with *critically imperiled* or *imperiled species* or *natural communities* (species or *natural communities* with NatureServe global conservation status ranks of G1 or G2), rare *natural communities* or unique ecological landscape features.

**Effluent:** Effluent from dairy sheds or other infrastructure such as yards, feedpads and calving pads predominantly consisting of manure, urine and washdown water. It may also include gravel, detergents, soil particles, cow hair, milk, string, paper and wire and is high in nutrients, particularly nitrogen, phosphorus and potassium.

**Energy-efficient agricultural practices:** Practices that deliver more services for the same energy input or the same services for less energy input (modified from the International Energy Agency definition of energy efficiency).

**Enrolled lands:** Lands managed by the *Standard user* and enrolled under the *Leading Harvest Standard* and subject to third-party audit to the *Leading Harvest Standard*.

**Equal opportunity employment:** To provide employment where an employer agrees not to discriminate against any employee or job applicant because of race, color, religion, national origin, sex, physical or mental disability, or age.

**Euthanasia:** Put to death humanely; a person conducting the euthanasia must take reasonable action to confirm the animal is dead.

**Export slaughter interval:** the minimum time that must elapse between veterinary chemical administration to livestock and their slaughter for export (APVMA, 2021).

**External threats:** Including extremes of weather conditions, drought, fires, floods, disease, injury and predation.

**Farmland:** Land that includes *cropland*, *rangeland*, *grassland*, *pasture* land, incidental *forest* land and *wetlands* that are part of an agricultural operation (USDA NRCS).

**Farmland tenant:** A lessee of *farmland* where the lease is managed by a *Standard user*.

**Farm labor contractor:** A person or business who charges a fee to recruit, transport, supply or hire seasonal farmworkers to work for or under the direction, supervision or control of *Standard user* or a *contract management company* under the oversight of a *Standard user* (US DOL).

**Fertilizer:** Any organic or inorganic material of natural or synthetic origin (other than liming materials) that is added to a soil to supply one or more nutrients essential to the growth of plants (USDA NRCS).

**Forest:** Land with tree crown cover (or equivalent stocking level) of more than 10 percent and area of more than 1.2 acres (0.5 hectares) with tree species largely of indigenous origin. The trees should be able to reach a minimum height of 16.4 feet (5 meters) at maturity in situ. It may consist either of closed *forest* formations where trees of various heights and undergrowth cover a high proportion of the ground or open forest formations with a continuous vegetation cover in which tree crown cover exceeds 10 percent. It does not include land that is predominantly under agricultural or urban land use (Food and Agriculture Organization of the United Nations).

**Gender equitable:** The fair treatment for men and women according to their respective needs. This may include equal treatment or treatment that is different, but which is considered equivalent in terms of rights, benefits, obligations and opportunities (UNESCO). Equivalency between men and women does not mean that women and men have to become the same, but that their rights, responsibilities and opportunities will not depend on whether they were born male or female.

**Grasslands:** Natural or seminatural land defined by the following characteristics: (1) a non-wetland formation; (2) vascular vegetation has at least 10 percent cover; (3) graminoids have at least 25 percent cover (but if less than 25 percent cover, graminoids exceed that of other herbaceous and shrub cover); (4) broad-leaved herbs (forbs) may have variable levels of cover and dominance; (5) shrubs have less than 25 percent canopy cover; (6) and trees: (i) in temperate zones, typically have less than 10 percent canopy cover, are less than 5 meters tall and single-layered or (ii) in tropical regions, typically have less than 40 percent canopy cover, are less than 8 meters tall and are single layered (Dixon et al. 2014).

**Greenhouse gases:** Gases in the atmosphere that can absorb infrared radiation from the sun, trapping outgoing energy in the form of heat in the atmosphere. Key *greenhouse gases* include carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>), sulfur hexafluoride (SF<sub>6</sub>), perfluorocarbons (PFCs) and hydrofluorocarbons (HFCs) (U.S. EPA).

**Groundwater:** Water that exists underground in saturated zones beneath the land surface. The upper surface of the saturated zone is called the water table (USGS).

**Groundwater depletion:** A long-term decline in levels of *groundwater* caused by sustained *groundwater* pumping within a watershed or catchment (USGS).

**Groundwater regulatory agency:** A local, regional, state or federal public authority or government agency with statutory authority to exercise regulatory or supervisory oversight in the use and/or extraction of *groundwater*.

**Habitat:** A place, natural or otherwise (including climate, food, cover and water), where an individual or population of animal species or plant species naturally or normally lives and develops.

**Hazardous waste:** Waste that is dangerous or potentially harmful to human health or the environment, which can be liquid, solid, gas or sludge. It can be discarded commercial products, like leftover cleaning fluids or *crop protectants*, or the byproducts of manufacturing *processes* (US EPA).

**Health and safety:** Regulations and procedures intended to prevent accident or injury.

**Humane killing:** Must ensure that the animal is killed at the first reasonable opportunity.

**Imperiled:** A plant species, animal species or *natural community*, often referred to as G2, that is globally rare or, because of some factor(s), is very vulnerable to extinction or elimination. Typically, six to 20 occurrences, or few remaining individuals (1,000 to 3,000), or acres (2,000 to 10,000 acres or 809 to 4,047 hectares), or linear miles (10 to 50 miles or 16 to 80.5 kilometers) exist.

**Indicator:** A specific metric that provides information about an organization's agricultural and environmental performance and that is integral to assessing conformance to the *Leading Harvest Standard*.

**Indigenous Peoples:** People defined in international or national legislation as having a set of specific rights based on their historical ties to a particular territory and their cultural or historical distinctiveness from other populations that are often politically dominant. More specifically, they are defined in the United States as members of federally recognized tribes and in Canada as those peoples that are defined by section 35(2) of the Constitution Act, 1982 (SFI).

**Integrated Pest Management:** The control of *pests*, including insects, at tolerable levels below economic thresholds, by the planned use of a variety of preventive, suppressive or regulatory tactics and strategies that are ecologically and economically efficient and socially acceptable (USDA, U.S. EPA). *Appropriate* techniques may include, but are not limited to, enhancement of natural enemies, planting pest-resistant *crops*, adaptation of cultural management and judicious use of *crop protectants*.

**Land use conversion:** A change in the extent or composition of an ecosystem or *habitat* where there is a shift from one land use to another that is considered significant or irreversible.

**Living wage:** The minimum income necessary for an employee or contract worker to meet their basic needs, which can include minimum food, child care, health insurance, housing, transportation and costs of other basic necessities (e.g., clothing, personal care items, etc.), such that public assistance is not necessary to meet basic needs. It does not address other needs such as entertainment, recreation or income for unpaid vacation (MIT).

**Low-emission technologies:** Advanced technologies used to significantly reduce greenhouse gas emissions levels, airborne pollutants and other adverse environmental impacts. This can include high-efficiency equipment and technology using *renewable energy* (e.g., hybrid vehicles, solar energy).



**Lowest risk, most selective treatment options:** A treatment used to control site-specific *pests* that minimizes impact to nontarget organisms and people and has the least overall impact while meeting management *objectives*. Considerations may include the target pest, the degree of control needed, cost, the season and timing of application, rates and methods, terrain, *crop* conditions and the presence or absence of water bodies.

**Minimize:** To do only that which is necessary and *appropriate* to accomplish the task or *objective* described.

**Mulesing:** The removal of skin from the breech and/or tail of a sheep using mulesing shears.

**Native habitats:** Areas where a native species naturally occurs and that have the living and nonliving environmental conditions necessary for survival, including areas for feeding, shelter, protection and/or reproduction.

**Natural communities:** An assemblage of interacting plant species and animal species and their common environment, recurring across the landscape, in which the effects of human intervention are minimal. The vegetation is largely indigenous origin defined by a characteristic range of species composition, diagnostic species occurrence, *habitat* conditions and physiognomy. They reflect subregional to local topo-edaphic factors of substrates, hydrology, disturbance regimes and climate (NatureServe). Three characteristics distinguish *natural communities*: 1) plant species composition, 2) vegetation structure (e.g., *forest*, shrubland or marsh) and 3) a specific combination of physical conditions (e.g., water, light, nutrient levels and climate). *Grassland* and shrub areas that have been plowed or otherwise have had extensive soil disturbance and removal of the vegetation in the past are typically not *natural communities*. *Forests* on sites that have been converted to other land uses (e.g., agriculture) in the past and subsequently allowed to regrow trees are typically not *natural communities*. Human-made *wetlands* from wetland mitigation projects on sites that have been converted in the past from other land uses (e.g., agriculture) or cleared *forest* and graminoid and/or shrub *wetlands* occupying sites once plowed or having extensive soil disturbance in the past are typically not considered to be natural *wetlands*.

**Natural forest:** *Forest* composed of indigenous trees and not classified as a planted *forest*.

**Nutrient management:** To manage the amount, source, placement, form and timing of the application of nutrients and *soil amendments* to ensure adequate *soil fertility* for plant production and to minimize the potential for environmental degradation, particularly *water quality* impairment (USDA NRCS) and unnecessary air emissions.

**Objective:** A fundamental goal.

**Occupational:** Relating to a job or profession.

**Overgrazing:** The regrazing of plants before they are allowed sufficient time for recovery and the grazing of plants for prolonged periods that exceeds the carrying capacity of the pasture.

**Pasture:** (1) Grazing lands comprised of introduced or domesticated native forage species that are used primarily for the production of livestock. They receive periodic renovation and/or cultural treatments such as tillage, fertilization, mowing, and weed control, and may be irrigated. They are not in rotation with *crops*. (2) A grazing area enclosed and separated from other areas by fencing or other barriers; the management unit for grazing land. (3) Forage plants used as food for grazing animals. (4) Any area devoted to the production of forage, native or introduced, and harvested by grazing (USDA).

**Performance measure:** A means of judging whether an *objective* has been fulfilled.

**Pests:** Organisms that interfere with the production and utilization of crops and livestock used for food, fiber and other *agricultural products*; these include insects, mites, nematodes, plant pathogens, weeds and vertebrates (USDA).

**Physiological:** Relating to the processes of the body, typically outside of conscious perception.

**Policy:** A written statement of commitment to meet an *objective* or to implement a defined *program* or plan to achieve an *objective* or outcome.

**Prime farmland:** Land that has the best combination of physical and chemical characteristics for producing *agricultural products* and is available for these uses. It could be *cropland*, *pasture*, *forest* or other land, but it is not urban or built-up land or water areas. The soil quality, growing season and moisture supply are those needed for the soil to economically produce sustained high yields of *crops* when proper management, including water management, and acceptable farming methods are applied. In general, *prime farmland* has an adequate and dependable supply of moisture from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, an acceptable salt and sodium content, and few or no rocks. The water supply is dependable and of adequate quality. *Prime farmland* is permeable to water and air. It is not excessively erodible or saturated with water for long periods, and it either is not frequently flooded during the growing season or is protected from flooding. Slope ranges mainly from 0 to 6 percent (USDA NRCS).

**Process:** A series of purposeful actions or operations that leads to a sought-after end or outcome. This can include a set or sequence of informal or formal practices, procedures or routines.

**Professional work environment:** A nondiscriminatory workplace environment free from harassment and composed of competent, respectful, mature and accountable employees working toward a common goal.

**Program:** An organized system, *process*, or set of activities to achieve an *objective*, *performance measure* or *indicator*.

**Protection:** Maintenance of the status or integrity, over the long term, of identified attributes or values including management where *appropriate*, giving consideration to past disturbance, land use, and pest risk when determining *appropriate conservation* strategies.

**Quality of life:** The standard of health, comfort, and happiness experienced.

**Rangeland:** Land on which the climax or potential plant cover is composed principally of native grasses, grasslike plants, forbs or shrubs suitable for grazing and browsing, and introduced forage species that are managed like rangeland. This would include areas where introduced hardy and persistent grasses, such as crested wheatgrass, are planted, and practices, such as deferred grazing, burning, chaining and rotational grazing are used with little or no chemicals or *fertilizer* being applied. It includes *grassland*, *savannas*, many *wetlands*, some deserts, tundra and certain low forb shrub communities, such as mesquite, chaparral, mountain shrub and pinyon-juniper. (NRCS USDA).

**Regional agricultural best management practices:** A practice or combination of practices developed by land grant agricultural universities in a region considered to be an effective means (including technological, financial, environmental, social and institutional considerations) of achieving a sustainable agriculture goal (modified from US EPA definition). A region is a homogenous area with respect to crops produced, soil type, climatic conditions, crop association and generally accepted farming practices.

**Regulatory action information:** Information related to compliance with government regulations such as permits, reports and corrective action documentation.

**Renewable energy:** Energy from sources that are naturally replenishing but flow-limited. It is virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time (US EIA), including wood, waste, geothermal, wind, photovoltaic, tidal and wave, hydropower and solar thermal energy.

**Riparian area:** A transition zone characterized by vegetation or geomorphology adjacent to rivers, streams, lakes, *wetlands* and other water bodies (USGS).

**Risk:** Uncertainty about the effects/implications of an activity.

**Runoff:** Water from precipitation or irrigation on an area that does not infiltrate, but instead is discharged from the area. The water that flows off the surface of the land without sinking into the soil is called *surface runoff*. Water that enters the soil before reaching *surface water* is called *groundwater runoff* or seepage flow from *groundwater* (USDA).

**Share-farming:** An arrangement whereby two parties (ordinarily both farmers) bring certain elements together to farm a property to generate profits which are then shared between the parties (Coulter Legal, 2023).

**Soil amendments:** Materials that typically are added to soil, plants or the plant-growth environment to enhance plant growth. These include *fertilizers*, compost, sludge, manure, microbes, additives, materials improving soil condition (i.e., adjusting the pH of the soil, improving soil structure and texture, aeration adjustment and moisture *conservation* among others), materials controlling or suppressing *crop pests*, and others or combinations thereof. Inorganic *soil amendments* are composed of synthetic chemicals and/or minerals, while organic *soil amendments* are often composed of organic matter from plant/animal sources and/or microbes, and may include materials such as manure, earthworm castings, soil, sphagnum peat, grass clippings, straw, wood chips, various composts, seaweed, guano, or naturally occurring mineral deposits (e.g. saltpeter), and living microorganisms, among others (USDA).

**Soil erosion:** A *process* by which soil and rock are removed by water and wind and then transported and deposited in other locations (USDA).

**Soil fertility:** The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tillage and other growth factors are favorable.

**Soil health:** The capacity of soil to function as a vital living ecosystem that sustains *crops*, soil organisms and humans. Its maintenance includes consideration of the physical, chemical and biological characteristics of soil (USDA).

**Soil loss:** *Soil erosion* where the removal of topsoil occurs faster than the soil-forming *processes* can replace it due to natural, animal and human activity.

**Soil mismanagement:** Agricultural operations, practices and/or treatments that result in the decline of *soil health* and *soil productivity*, including *soil loss*.

**Soil productivity:** The capability of a soil for producing a specified plant or sequence of plants under specific management (USDA NRCS).

**Solid waste:** Any solid, semisolid, liquid or contained gaseous materials discarded from agricultural operations. It includes garbage, construction debris, commercial refuse, sludge from water supply or waste treatment plants and other discarded materials (RCRA US EPA).

**Special sites:** Sites that include *unique geological features* or *unique culturally important features* that are recognized regionally or nationally or by *Indigenous Peoples*.

**Standard user:** An organization certified or committed to being certified by an accredited *certification body* to be in conformance with the *Leading Harvest Standard*.

**Suffering:** The state of severe distress, disease or injury.

**Supply chain:** The sequence of processes involved in the production and distribution of a commodity to a consumer.

**Surface water:** Water that is on the Earth's surface, such as in a stream, river, lake or reservoir (USGS).

**Tail docking:** The removal of a portion of an animal's tail, or actions that cause the loss of a section of the tail. It does not include any trimming of the switch hairs (the bush) (cattle).

**Treaty rights:** Rights specified in treaties between *Indigenous Peoples* and the U.S. government. These rights are based on the legal foundations of tribal sovereignty, treaty provisions, and the "reserved rights" doctrine, which holds that *Indigenous Peoples* retain all rights not explicitly abrogated in treaties or other legislation (U.S. DOI). Typically this is expressed in terms of reserved rights aimed at permitted hunting, fishing and gathering in areas near *Indigenous Peoples* reservations.

**Threatened and endangered species:** Species listed under the U.S. Endangered Species Act or listed under applicable state laws requiring *protection*.

**Unique geological features:** Naturally occurring physical features on Earth's surface, which are unique or locally rare, typically limited in extent (0.1 to 100 acres), often less than 10 acres. Examples could include, but are not limited to, exceptional waterfalls, stream or river gorges, canyons, arches, caves or mine entrances, *outcrops* of fossil beds or rare mineral deposits, bluffs, buttes and cliffs.

**Universal waste:** A category of waste materials designated as *hazardous waste* but containing materials that are very common. It includes batteries, *crop protectants*, mercury-containing equipment and lamps (U.S. EPA).

**Verifiable monitoring system:** A system capable of being audited by a third party that includes: 1. a means to characterize *farmland* under the authority of a *Standard user*, 2. a *process* to identify and use sources of available data regarding the use of *regional agricultural best management practices*, and 3. a method to assess *farmland* tenant performance.

**Viable occurrences:** Occurrences of species with good or excellent viability according to NatureServe, including occurrences that exhibit favorable characteristics with respect to population size and/or quality and quantity of occupied *habitat*, and, if current conditions prevail, the occurrence is likely to persist for the foreseeable future (i.e., at least 20-30 years) in its current condition or better (NatureServe).

**Water quality:** The chemical, physical and biological characteristics of water, with respect to its suitability for a particular purpose (e.g., drinking water for humans or livestock, commercial and industrial use, aquatic species *habitat* and *crop* irrigation (USGS)

**Weather conditions:** The forecast of weather (temperature, humidity, precipitation, wind, cloudiness and atmospheric pressure) and severe weather warnings (thunderstorms, tornadoes, hurricanes, winter storms, snow, droughts) to include observations, flood information, seas forecasts and climate information.

**Wetlands:** A transitional area between aquatic and terrestrial ecosystems that is inundated or saturated for periods long enough to produce hydric soils and support hydrophytic vegetation largely of native origin. Examples can include, but are not limited to, (1) seasonally or permanently water-logged areas characterized by vegetation adapted for life in saturated/flooded conditions; (2) areas that are forested, shrubby or open, including bogs, fens, swamps, marshes and shallow open water areas; and (3) stagnant systems (e.g., bogs), slow flowing (e.g., fens, swamps), or have fluctuating water levels (e.g., marshes, shallow open water; CWA U.S. EPA).

**Wildlife:** Aquatic (freshwater), marine and terrestrial fauna.





# **SECTION 2**

## **CERTIFICATION BODY PROCEDURES, COMPETENCE AND ACCREDITATION**



## Certification Body Procedures, Competence and Accreditation

### Introduction

All audits to support certification to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* shall be conducted by *certification bodies* accredited by the ANSI National Accreditation Board (ANAB).<sup>1</sup>

Accredited *certification bodies* that provide certification services for *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* are required to maintain audit *processes* and conduct audits consistent with the requirements of:

- ISO/IEC 17021-1:2015 Conformity assessment – Requirements for bodies providing audit and certification of management systems; and
- ISO/IEC TS 17021-2:2016 Conformity assessment – Requirements for certification bodies providing audit and certification of management systems (Part 2: Competence requirements for auditing and certification of environmental management systems).

### 1. Scope

This *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023 Certification Body Procedures, Competence and Accreditation* document is intended to support, but not replace the audit *process* requirements contained in ISO/IEC 17021-1:2015, ISO/IEC TS 17021-2:2016, by providing specific requirements to *Leading Harvest Certified Program Users* and *certification bodies*.

### 2. Normative Reference

*Certification bodies* and *auditors* conducting third-party audits to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* must conform to the requirements of ISO/IEC 17021-1:2015: and ISO/IEC TS 17021-2:2016. In addition, all *certification bodies* and *auditors* conducting third-party audits to *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* must conform to all applicable ANAB requirements and International Accreditation Forum (IAF) Mandatory Documents (e.g., IAF MD 1, IAF MD 2, IAF MD 4, IAF MD 5, IAF MD 11, etc.).

### 3. Terms and Definitions

Additional definitions of terms can be found in the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*.

- 3.1 *nonconformity*  
*non-fulfillment of a requirement*
- 3.2 *major nonconformity*  
*nonconformity that affects the capability of the management system to achieve the intended results*  
*Nonconformities could be classified as major in the following circumstances:*
- *if there is a significant doubt that effective process control is in place, or that products or services will meet specified requirements;*
  - *a number of minor nonconformities associated with the same requirement or issue could demonstrate a systemic failure and thus constitute a major nonconformity.*
- 3.3 *minor nonconformity*  
*nonconformity that does not affect the capability of the management system to achieve the intended results*

<sup>1</sup> Please see section 7.2 for information on interim accreditation requirements.

## 4. Procedures for Implementing the Principles for Leading Harvest Auditing

ISO 17021-1:2015 Section 4 addresses general principles associated with auditing, including impartiality, competence, responsibility, openness, confidentiality and responsiveness to complaints.

All information and documents, including working drafts and reports, shall be considered confidential. *Certification bodies* shall not release any information or documents without the prior written permission of the *Leading Harvest Certified Program User*. *Auditors* shall conduct themselves in a professional and ethical manner.

## 5. Leading Harvest Audit Activities

### 5.1 Initial Certification

For the initial certification audit to be completed, the auditee must be a *Leading Harvest Program User* or be in the process of becoming one in which case the final certification decision is conditioned on becoming a *Leading Harvest Program User*. The *Leading Harvest* certificate cannot be issued by the *certification body* until the applicant has become a *Leading Harvest Program User*. It should be noted that the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* is a publicly available document and, as such, anyone who wants to can offer their “opinion” on an organization’s conformance to it. However, because “*Leading Harvest*” is a registered service mark, an entity would infringe on this ownership in violation of federal intellectual property laws if they were to use the service marks in a public claim about the “opinion” without becoming a *Leading Harvest Program User*.

### 5.2 Certification of Multiple Sites

Multi-site organizations may be audited on a site-by-site basis (all sites visited each year) or, in some cases, on a sample basis. Multi-site certifications shall adhere to the requirements in IAF MD 1: 2018.

### 5.3 Substitution and Modification of *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023 Indicators Certified Program Users*, with consent of the *certification body*, may substitute or modify *indicators* in the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* to address the scope and scale of operations and local conditions based on a thorough analysis and adequate justification. The *certification body* is responsible for ensuring revised *indicators* are consistent with the spirit and intent of the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023 performance measures and indicators* and with the principles of *Leading Harvest Farmland Management Standard*, and that the changes are *appropriate* for specific local conditions and circumstances and the *Certified Program User’s* scope and scale of operation.

Additional *indicators* beyond those identified in the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*, if included by the *Leading Harvest Certified Program User*, shall be audited like all other *indicators*.

### 5.4 Determination of Conformity

#### 5.4.1 The *certification body* shall assess conformance to each element of *Leading Harvest’s objectives, performance measures and indicators* within the scope of the audit.

Evidence shall be compiled by examining operating procedures, materials relating to *farmland* management practices and on-the-ground field performance, and through meetings or correspondence with employees, contractors and other third parties (e.g., government agencies, community groups, affected *Indigenous Peoples*, *conservation organizations*), as *appropriate*, to determine conformance to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*.

## SECTION 2

### CERTIFICATION BODY PROCEDURES, COMPETENCE AND ACCREDITATION

5.4.2 The *certification body* shall ensure that the audit *objectives* and scope as well as the *auditor* time allocated to the audit:

- allow for accurate determination of conformance for the operating units within the scope of the audit;
- verify that the *farmland* management *program* conforms to *Leading Harvest*, *objectives*, *performance measures*, *indicators*, and any additional *indicators* that the *Certified Program User* chooses; and
- verify whether the *Certified Program User* has effectively implemented its *Leading Harvest Farmland Management Standard 2023 program* requirements on the ground.

If a *major nonconformity* is found, a certification shall not be issued until the *certification body* verifies that corrective action approved by the *lead auditor* has been implemented. A revisit may be required to verify implementation of corrective actions.

If a *minor nonconformity* is found, a certification may be issued only after the *lead auditor* approves a corrective action plan that is to be implemented within an agreed-upon period, not to exceed one year. Verification that the corrective action has been effectively implemented shall occur during the next audit.

#### 5.5 *Leading Harvest* Technical Audit Report to the *Certified Program User*

ISO/IEC 17021-1:2015, Section 9.4.8 defines the audit report contents. In addition, the *Leading Harvest* audit report to the *Certified Program User* shall cover:

- a. the audit plan;
- b. description of the audit *process* used;
- c. the number of auditor days used to conduct the audit, including both on-site and off-site audit activities;
- d. information regarding any meetings or correspondence between the audit team and government agencies, community groups, affected *Indigenous Peoples* and *conservation* organizations;
- e. documentation of the rationale for the substitution or modification of any *indicators*;
- f. a schedule for surveillance and recertification;
- g. any specific focus areas for the next audit visit.

See Communications and Reporting in Section 5 in the *Leading Harvest Farmland Management Standard Program 2023* document regarding the development of summary audit reports. *Certified Program Users* who wish to make public claims about being certified must submit summary audits within 90 days of the certificate being issued that can be made public by *Leading Harvest*.

*Certified Program Users* that only use certification for internal reporting and business to business communications related to selling product must submit an audit report (which will not be publicly available) to *Leading Harvest* for validation within 90 days of the certificate being issued, and also shall share with *Leading Harvest* information regarding acres and general geographies certified for aggregated reporting across *Program Users*.

#### 5.6 Recertification

5.6.1 To maintain current *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* certificates, *Certified Program Users* shall recertify their *Leading Harvest programs* to the *Leading Harvest Farmland Management Standard* every three years.



## 5.7 Transfer of Certification

5.7.1 When one Certified *Program User* acquires the certified *farmland* of another Certified *Program User*, the certification bodies shall work with the parties involved to review the acquisition or sale. This review will determine the significance of changes that may occur with the transfer of ownership of the *farmland* to determine the actions necessary in order to issue a new certificate to the party receiving the new assets. It is imperative that *Certified Program Users* notify their respective *certification body* as soon as possible when *farmland* is being purchased or sold to ensure that lapses in certification status can be eliminated or *minimized*.

In order to *minimize* disruptions in operations due to the transfer of certified *farmland* from one *Certified Program User* to another, *Leading Harvest* will honor current *Leading Harvest* certifications for the *farmland* involved in the transfer for a period of 90 days for *Leading Harvest* off-product mark uses provided:

- a. The parties involved request this grace period in writing prior to the transfer of the assets with documentation confirming that there will not be significant variation in the current operations, environmental management systems personnel, etc. during the transfer.
- b. The party receiving the assets must provide documentation demonstrating the timeline for obtaining their new *Leading Harvest* certification from an accredited *certification body*.
- c. The party desiring to utilize the *Leading Harvest* off-product marks must be in full conformance with all aspects of the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*.

5.7.2 Transfer of an existing certification to another *certification body* will meet the requirements of IAF MD2.

## 6. Competence and Evaluation

### 6.1 Competence of *Audit Teams*

*Audit teams* shall have the competence (knowledge and skills) to conduct an audit in accordance with the principles of auditing. The *certification body* shall select *audit team* members *appropriate* to the scope, scale and geography of the operation being audited. Additionally, at least one member of the *audit team* shall have knowledge of agricultural operations in the region undergoing the audit, at least one member shall have knowledge of applicable laws and regulations, and at least one member shall have knowledge of the socio-demographics and cultural issues in the region.

### 6.2 Qualifications of *Auditors*

ISO/IEC 17021-1:2015, sections 7.1 and 7.2 address general competence requirements for *certification bodies* providing audit and certification of management. This is supplemented by the environmental management system-specific competence requirements contained in ISO/IEC 17021-2:2016.

## 7. Accreditation of Certification Bodies

### 7.1 Accreditation Requirements

The *Leading Harvest Farmland Management Standard Program 2023* requires *certification bodies* to be accredited in order to conduct *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023 audits* and issue certificates.

*Certification body:*

an independent *third party* that is accredited by ANSI-National Accreditation Board (ANAB) as being competent to conduct certifications to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*.

## 7.2 Interim Accreditation Rules

The *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* is new. *Leading Harvest* is working with the ANSI National Accreditation Board (ANAB-ANSI) to develop an accreditation *program* for certification bodies specific for the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*. Given the desire to begin certifications to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* as soon as possible and prior to ANAB accreditation procedures being developed, *Leading Harvest* recognizes certifications conducted by certification bodies that meet the following requirements:

Accreditation by ANAB to conduct ISO 14001 Environmental Management Systems certifications or certification bodies that have been accredited for specific standards that are also based on land management. In addition, certification bodies with accreditation or credentialing from other organizations may be used if approved in advance by *Leading Harvest*. All certification bodies must be approved by *Leading Harvest* before conducting certifications to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*.

Once the accreditation *process* has been established by ANAB and provisional approval has been granted by *Leading Harvest*, certification bodies will be allotted eighteen months to complete the accreditation *process*. All audits and certifications shall be done by certification bodies accredited for the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* eighteen months after the *process* has been established by ANAB.



# SECTION 3

## USE OF OFF-PRODUCT MARK



## 1. Use of Leading Harvest Off-Product Mark

### 1.1 Off-Product Mark

*Leading Harvest* has an off-product mark to show participation in the *program* and to promote the *program* generally. *Leading Harvest* owns all right, title and interest in the off-product mark, and exercises legitimate control over its use.

The off-product mark may only be used by *Program Users* in good standing whose operations are enrolled in the *Leading Harvest Farmland Management Program 2023* (for all or a portion of their operations). Any express or implied claim that a *Program User* is in conformance with the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* must be substantiated by a current, valid certification by an accredited *certification body* recognized by *Leading Harvest*.

The *Leading Harvest* off-product mark and messages/claims cannot be used on product labels.

### 1.2 Public Claims and Mark Use<sup>1</sup>

- 1.2.1 Full Participant Claims and Mark Use. A *Program User* who wishes to make a public claim regarding their participation in *Leading Harvest* must have successfully completed certification to the *Leading Harvest Farmland Management Standard 2023* by a recognized accredited *certification body* and submit a public audit summary report which will be posted to the *Leading Harvest* website. The contents of the audit report are detailed in Section V, Communications and Reporting. The messages or claims that may be used with the *Leading Harvest* off-product mark are outlined in the *Leading Harvest Brand Guidelines* in Section IV.

A *Program User* that has enrolled all their *farmland* acres in the *Leading Harvest Farmland Management Standard* may use the *Leading Harvest* off-product mark and make the following public claim before achieving certification:

**100% of Farmland Acres Enrolled**

In addition, *Program User* may use the *Leading Harvest* off-product mark and make the following public claim as *farmland* acres are certified to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*:

**100% of Farmland Acres Enrolled and XX% of Farmland Certified**

- 1.2.2 Partial Participant Claims and Mark Use. A *Program User* who wishes to make a public claim regarding their participation in *Leading Harvest* must have successfully completed partial certification to the *Leading Harvest Farmland Management Standard 2023* by a recognized accredited *certification body* and submit a public audit summary report which will be posted to the *Leading Harvest* website. The contents of the public audit report are detailed in Section V, Communications and Reporting. The public claim that may be used with the *Leading Harvest* off-product mark is limited to the following until all the *Program User's farmland* acres are enrolled and certified:

**XX% of Farmland Acres Enrolled and XX% Farmland Acres Certified**

- 1.2.3 *Program* Supporter Claims and Mark Use. Organizations that are formally recognized by *Leading Harvest* may only use the *Leading Harvest* off-product mark and the following tagline associated with the mark:

**Proud Supporter of Leading Harvest**

<sup>1</sup> A public claim is one that is made to the general public such as in a publicly posted sustainability report, press release, blog post, company letterhead, business cards, vehicle signage, etc.



### 1.3 Private Claims and Mark Use<sup>2</sup>

*Program Users* can make private, business to business, claims regarding their participation in *Leading Harvest*.

- 1.3.1 **Full Participant Claims and Mark Use.** A *Program User* who wishes to make a private claim regarding their participation in *Leading Harvest* must have successfully completed certification to the *Leading Harvest Farmland Management Standard 2023* by a recognized accredited *certification body* and submit a private audit report to *Leading Harvest*. The contents of the audit report are detailed in Section V, *Communications and Reporting*. This report will be confidential and will not be made publicly available by *Leading Harvest*.

A *Program User* that has enrolled all their *farmland* acres in the *Leading Harvest Farmland Management Program 2023* may use the *Leading Harvest* off-product mark and make the following private claim before achieving certification:

**100% of Farmland Acres Enrolled**

In addition, a *Program User* may use the *Leading Harvest* off-product mark and make the following private claim as *farmland* acres are certified to the standard:

**100% of Farmland Acres Enrolled and XX% of Farmland Acres Certified**

### 1.4 Partial Participant Claims and Mark Use

A *Program User* who wishes to make a private claim regarding their participation in *Leading Harvest* must have successfully completed certification to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* by a recognized accredited *certification body* and submit an audit report to *Leading Harvest*. The contents of the private audit report are detailed in Section V, *Communications and Reporting*. This report will be confidential and will not be made publicly available by *Leading Harvest*.

- 1.4.1 The private claim that may be used with the *Leading Harvest off-product* mark is limited to the following until all the *Program User's farmland* acres are enrolled and certified:

**XX% of Farmland Acres Enrolled and XX% Farmland Acres Certified**

The off-product mark must be used as described in the *Leading Harvest Brand Guidelines*, subject to the limitations detailed in the preceding requirements.

<sup>2</sup> A private, business to business claim is one that is made to another business such as in an invoice, personal correspondence, sell sheet, etc. and is not made public.



# SECTION 4

BRAND GUIDELINES  
FOR USE OF OFF-PRODUCT  
MARK AND MESSAGES



## SECTION 4

### VERTICAL LOGO

The vertical logo is the primary logo and should be used whenever possible. See below for smaller and horizontal usage.

The minimum space around the logo should be at least one length of the center leaf.

To ensure the logo maintains its readability, it should not go any smaller than 0.75" in height. If it does, please use the icon with text.



### HORIZONTAL (ICON WITH TEXT)

If the logo is smaller than 0.75" please use the icon and add "Leading Harvest" positioned to the right, vertically centered, in all caps, Helvetica Neue Medium or Regular. Text can be adjusted to the size needed.



	VERTICAL	HORIZONTAL
<b>4-COLOR LOGO</b> Use the CMYK color palette when 4-Color printing is available. Navy and Teal logos are acceptable.		
<b>2-COLOR LOGO</b> Use PMS2189C (Navy) or PMS2223C (Teal) and 80% Black when PMS color is available.		
<b>1-COLOR LOGO</b> Use B&W version of the marks when printing in black and white.		
<b>WEB-SAFE LOGO</b> Use PNG, JPEG or TIFF for all website and PowerPoint presentations.		
<b>WHITE LOGO</b> Use White version of the mark when applying it to dark backgrounds or over images. (PNG, EPS, or AI)		

## SECTION 4

### BRAND GUIDELINES AND USE OF OFF-PRODUCT MARK AND MESSAGES

#### LOGO + TAG LINE

“Grow Confidently” should be one weight less than “Leading Harvest,” either Helvetica Neue Regular or Light.

When using the tag line with the main logo, it should be centered under the shape of the logo within the pink lines. If the tag line feels too small, then you may increase the size of the tag line but it should not go outside of the blue lines.



#### HORIZONTAL + TAG LINE

If the logo is smaller than 0.75” and the name and tag line are needed, use this formatting.

Position “Leading Harvest” to the right of the mark, vertically centered, in all caps, Helvetica Neue Medium or Regular. Text can be adjusted to the size needed.

“Grow Confidently” should be in a lighter weight than “Leading Harvest,” either Helvetica Neue Regular or Light.



#### TYPOGRAPHY

Our typeface, Helvetica Neue is simple, clear, and universal.

Different weights and styles are used to establish importance in messaging.

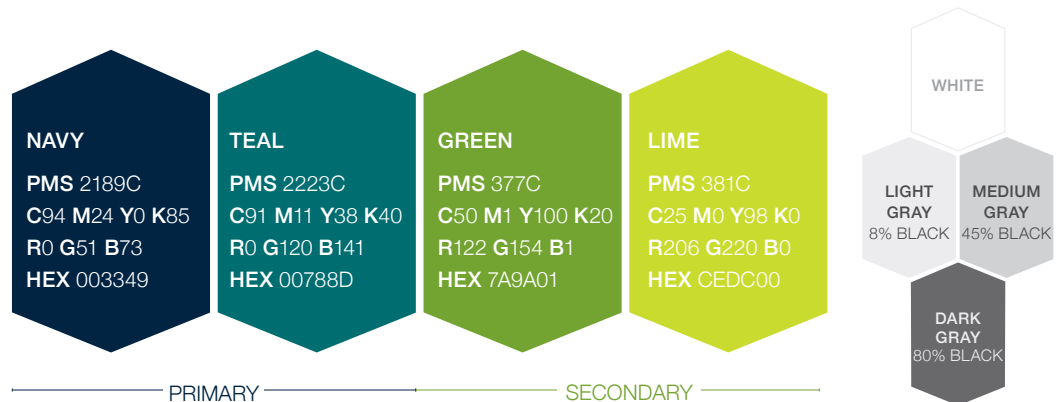
**HELVETICA NEUE 75 BOLD**  
**HELVETICA NEUE 65 MEDIUM**  
**HELVETICA NEUE 55 ROMAN**  
*HELVETICA NEUE 56 ITALIC*  
**HELVETICA NEUE 45 LIGHT**  
*HELVETICA NEUE 45 LIGHT ITALIC*  
**HELVETICA NEUE 35 THIN**

#### COLOR PALETTE

The primary colors are Navy, Teal, White, and Dark Gray.

For print, use CMYK or PMS colors. Always match print jobs to color swatches for consistency.

For website graphics, and PowerPoint presentations, use RGB or HEX colors.



#### LOGO DON'TS



Place logo on images that provide good contrast and legibility. Do not superimpose the logo on any image that obscures the logo or makes it hard to see or read.

*Igent aut aspis exerum autes tios dolor aliquae est, commo lo resPa praestibus prorsus eumenit, item enis estem. Om nim fuga. Optae poro omnimet mostis et od que ipsum doloresed earis equatio. Nam veratur modiciendaolor. Do luptatem quid et porias.*

Do not use the entire logo, or any part of it separately as a tinted background or decorative element.



Do not distort, recreate, add any elements, or alter the proportions of the logo.





# **SECTION 5**

## **COMMUNICATIONS AND REPORTING**



### 1. Preparing and Submitting an Audit Report

A *Certified Program User* who wishes to make public claims shall provide a summary audit report (one copy must be in English) to *Leading Harvest* within 90 days after the successful completion of certification, recertification, or surveillance audit to the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*. The summary audit report will be posted on the *Leading Harvest* website for public review.

*Certified Program Users* that only use certification for internal reporting and business to business communications related to selling product must submit an audit report (which will not be publicly available) to *Leading Harvest* for validation within 90 days of the certificate being issued, and also shall share with *Leading Harvest* information regarding acres and general geographies certified for aggregated reporting across *Program Users*.

1.1 The *certification body* shall prepare the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* summary audit report, which shall include, at a minimum:

- a. a description of the audit *process, objectives* and scope;

**This shall include:**

- the specific *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023 objectives* that were within the scope of the audit;
- a description of the sampling approach (consistent with IAF MD-1:2018 and, where *appropriate*, adopting a risk-based approach) outlining the strata, location and number of sites sampled and the percentage of sites sampled within each stratum;
- the sampling size, including the number of operations and managed *farmland* acres physically inspected during the audit.

- b. a description of substitute *indicators*, if any, used in the audit and a rationale for each;
- c. the name of *Certified Program User* that was audited, including its *Leading Harvest contact person*;
- d. a general description of the *Certified Program User's farmland* included in the audits;

**This shall include:**

- a general description of the management plan outlining *farmland* management policies and *objectives*;
  - an outline of the area of ownership (including the number of acres/hectares under management and provide a description of key features);
  - a general description of major *crop* types with a general characterization of management and *conservation* approaches used.
- e. a description of the audit team. This shall include the names and professional qualifications of the lead auditor, all *audit* team members and any *technical experts* who participated in the audit. This may include the names and affiliations of any audit observers and an explanation of their role;
  - f. the dates the audit was conducted and completed. This shall include the number of auditor days spent to conduct the audit, broken down by auditor time spent off and on-site. This shall include the specific *farmland* operations visited if there is more than one operation/region associated with the certificate, and
  - g. a summary of the findings, including general descriptions of evidence of conformity and any nonconformities (reported at the *performance measure* level) and corrective action plans to address them, opportunities for improvement, and exceptional practices;

**This shall include:**

- a description of the evidence examined for each *Leading Harvest Farmland Management Standard 2023 objective* within the scope of the audit.
  - an update on the status of previous non-conformities, if any.
- h. the audit team recommendation.





# SECTION 6

## DISPUTES AND APPEALS



## Introduction

A *process* that openly investigates concerns and disputes is an important component of any legitimate certification *program*. The transparency requirements of the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* and supporting documents allow individuals and organizations to bring forward questions and concerns using the *process* as outlined in this section.

An official dispute or appeal does not challenge the credibility or the content of the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* requirements; rather it challenges the audit findings and the decision of the *certification body* to grant the certification, or events occurring since the audit that question the maintenance of the certification.

### 1. Disputes and Appeals Questioning the Validity of a Certification to the Leading Harvest Farmland Management Standard – Pasture and Livestock 2023

The disputes and appeals *process* is an important component of any legitimate certification *program*, including the *Leading Harvest Farmland Management Program 2023*. The disputes and appeals *process* allows individuals or organizations to have their concerns regarding the validity of a certification openly and independently investigated. A dispute or appeal does not challenge the credibility or the content of the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*, rather it challenges the audit findings and the decision to grant the certification, or events that have happened since the last audit that questions the maintenance of the certification.

#### Disputes and Appeals Process

- 1.1 The *certification body* will conform to the requirements of ISO/IEC 17021-1:2015, sections 9.7 and 9.8, as well as the additional requirements defined in this *process*.
- 1.2 The complainant outlines their concerns in a letter to the *Certified Program User's certification body*.
- 1.3 The *certification body* may request additional specifics associated with the concerns and will investigate the issue in accordance with their official complaint procedures that were approved by their accreditation body.
- 1.4 If the *certification body* finds a sound basis for the dispute or appeal, then it would require the *Certified Program User* to take corrective action to address the complaint and advise the complainant accordingly.
- 1.5 If the *certification body* does not find a sound basis for the complaint and determines the certification was *appropriately* granted and *Certified Program User's* performance has not changed since the certification, it would inform the complainant of this.
- 1.6 In the event litigation is involved between the complainant and the *Leading Harvest Certified Program User*, the dispute and appeals *process* shall be suspended pending resolution of the litigation. It shall be restarted following resolution of the litigation if *claims* of nonconformity issues remain.





# SECTION 7

## INTERPRETATIONS



## Interpretations

From time to time, a formal *process* may be needed to interpret the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023* and supporting documents. As part of *Leading Harvest's* commitment to continual improvement of both the *Leading Harvest* certification *process* and the *Leading Harvest Farmland Management Standard – Pasture and Livestock 2023*, such concerns shall be submitted promptly to the *Leading Harvest* Interpretations Committee by contacting staff at *Leading Harvest*. The *Leading Harvest* Interpretations Committee shall respond within 45 days of receipt.

It is neither the intent nor the responsibility of the *Leading Harvest* Interpretations Committee to resolve disputes arising through certification; nevertheless, the committee will provide opinions and direction to assist parties in answering interpretive questions. Through this *process*, the *Leading Harvest* shall maintain a publicly available record of opinions and concerns available to both *Leading Harvest Certified Program Users* and certification bodies to assist with certification planning. *Leading Harvest* shall periodically review this record and, where *appropriate*, recommend changes for inclusion in the *Leading Harvest Farmland Management Program 2023*.





GROW CONFIDENTLY

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[info@LeadingHarvest.org](mailto:info@LeadingHarvest.org)