# Sustainable Forestry Initiative® Forest Management Audit Report

# **Missouri Department of Conservation**

Certificate # SCS-SFI/FM-010232

SFI 2022 Standards and Rules®, Forest Management Surveillance Audit

Client Address	2901 West Truman Blvd.; Jefferson City, MO 65109
Client Contact	Marty Calvert, marty.calvert@mdc.mo.gov
Client Website	Missouri Department of Conservation (mo.gov)

#### SCS Contact:

#### **Maggie Schwartz**

Managing Director, Forestry Natural Resources Division

mschwartz@scsglobalservices.com



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# **Public Summary Report**

# SFI® Forest Management Standard

#### **SECTION A – PUBLIC SUMMARY**

#### **Foreword**

## **Organization of the Report**

This report of the results of your audit assessment is divided into two sections. Section A provides the public summary and background information that is required by the Sustainable Forestry Initiative® (SFI) Section A is made available to the public and is intended to provide an overview of the audit process, the management programs and policies applied to the forest, and the results of the audit. Section A will be posted on the SFI® website and Section B contains more detailed results and information for required SFI record-keeping or for use by the Certified Organization.

#### **Principles of SFI Forest Management**

The SFI 2022 Standards and Rules for Forest Management promotes sustainable forestry and includes measures to protect water quality, biodiversity, wildlife habitat, species at risk and Forests with Exceptional Conservation Value.

The 13 SFI Principles for Forest Management are:

- 1. Sustainable Forestry: To practice sustainable forestry to meet the needs of the present while promoting the ability of future generations to meet their own needs by practicing a land stewardship ethic that integrates reforestation and the managing, growing, nurturing and harvesting of trees for useful products or the provision of ecosystem services such as the conservation of soil, air and water quality and quantity, climate change adaptation and mitigation, biological diversity, wildlife and aquatic habitats, recreation and aesthetics.
- 2. **Forest Productivity and Health:** To provide for regeneration after harvest, maintain the health and productive capacity of the forest land base, and to *protect* and maintain *long-term* soil health and productivity. In addition, to *protect* forests from economically, environmentally or socially undesirable impacts of wildfire, pests, diseases, *invasive species* and other damaging agents and thus maintain and improve *long-term forest health and productivity*.
- 3. **Protection of Water Resources:** To protect and maintain the water quality and quantity of water bodies and *riparian areas*, and to conform with forestry *best management practices* to *protect* water quality, to meet the needs of both human communities and ecological systems.
- 4. **Protection of Biological Diversity:** To manage forests in ways that protect and promote biological diversity, including animal and plant species, *wildlife habitats*, *ecologically* and *culturally important*

- species, threatened and endangered species (i.e., Forest with Exceptional Conservation Values) and native forest cover types at multiple scales.
- 5. **Aesthetics and Recreation:** To manage the visual impacts of forest operations, and to provide recreational opportunities for the public.
- 6. **Protection of Special Sites:** To manage lands that are geologically or *culturally important* in a manner that takes into account their unique qualities.
- 7. **Legal Compliance:** To comply with applicable federal, provincial, state, and local forestry and related environmental laws, statutes, and regulations.
- 8. **Research:** To support advances in sustainable forest management through research, science and technology.
- 9. **Training and Education:** To improve the practice of *sustainable forestry* through training and education programs.
- 10. **Community Involvement and Social Responsibility:** To broaden the practice of *sustainable forestry* on all lands through community involvement, socially responsible practices, and through recognition and respect of *Indigenous Peoples'* rights and *traditional forest-related knowledge*.
- 11. **Transparency:** To broaden the understanding of forest certification to the *Forest Management Standard* by documenting certification audits and making the findings publicly available.
- 12. **Continual Improvement:** To continually improve the practice of forest management, and to monitor, measure and report performance in achieving the commitment to *sustainable forestry*.
- 13. **Responsible Fiber Sourcing in North America:** To use and promote *sustainable forestry* across a diversity of ownership and management types in the United states and Canada that is both scientifically credible and socially, environmentally, and economically responsible and to avoid sourcing from *controversial sources* both domestically and internationally.

# 1. General Information

# 1.1 Name, Contact, and Certificate Information

Organization Name	Missouri Department of Conservation (MDC)	
Certification	Marty Calvert	
Representative, Address,	2901 West Truman Blvd.; Jefferson City, MO 65109	
Phone Number	(573) 208-3068 <u>marty.calvert@mdc.mo.gov</u>	
Audit Dates	10-13 October (Tue-Fri)	
SFI Certificate Type	☐ Single ☐ Multi-site. This Audit covered the requirements of the central organization and a subset of sites. These sites were selected based on proximity and length of time since previous audits. See Summary of Audit Itinerary for details of sampling.	

# 2. Summary Description of the Management Unit(s)

and Utilization, and Forest Systems. Each Region is under the direction of a Regional Administrator who is assigned varying number of staff depending on the Region's workload. Each Region is further divided into Districts. (Source, Agency Overview and Background - Lands to be Certified) Sites **Sites Audited 2023** Jefferson City Χ Northeast Region Southeast Region Ozark Region Χ St. Louis Region Χ **Central Region** Southwest Region Kansas City Region Northwest Region ☐ ATFS: List of all sites/FMUs under scope of the certificate, including certified acres. If a Group certificate provide a description of the group structure **Total Forest Area** For purposes of SFI certification, approximately 696,000 acres are considered within the scope of compliance with the SFI Forest Management Standard. (Acres) Provide a link to any public maps. Missouri Department of Conservation - Natural Areas Map (arcgis.com) MISSOURI DEPARTMENT OF CONSERVATION MANAGED PROPERTIES 2023 **Management Unit** Maps The Forest and Woodland Program includes: **Forest Types and Key** LANDSCAPE LEVEL **Ecological Features** Landscape Design with Priority Lands

- Natural Community Restoration on Priority Lands
- Conservation Area Planning Coordination
- Terrestrial Habitat for Public Use Management
- Ecological Health

#### **AQUATIC**

- Wetlands
- Aquatic Habitat Management for Priority Species
- Habitat Management for Streams
- Sport Fish Management
- Other Harvestable Fish Species
- Commercial Fishing
- CAP Lakes
- Aquatic Species Production

#### **OPENLAND**

- Grasslands
- Ag Crop

#### **FOREST**

- Forest and Woodland
- Forest Health Management
- Fire Detection and Suppression
- State Forest Nursery
- Forest Products Industry
- Missouri Forest Ecosystem Project MOFEP

#### **INVASIVE SPECIES**

- Feral Hogs
- Invasive Species Management

#### WILDLIFE

- Deer
- Turkey
- Furbearers
- Migratory Birds
- Small Game
- Bear
- Elk
- Bird Conservation
- Commercial / Confined Wildlife
- Wildlife Damage and Wildlife Human Interaction
- Wildlife Diversity and Endangered Species

#### **OTHER**

- Natural Resource Management Planning Training Program
- SRM Branch Information Management Program
- Statewide Resource Management Branch Public Contact & Response program
- Federal Aid Program Wildlife and Sportfish Restoration Program
- Statewide Resource Management Branch Contracts, Grants and Agreements

#### The management plan outlines forest management policies and objectives: The MDC links Strategic Priorities, Budgets, Work Plans, and Accomplishments to Deliver Priority-based Conservation. Strategic plan, https://mdc.mo.gov/sites/default/files/2023-04/CCS.pdf. The state conservation lands are organized under areas guided by Finalized Area Plans | Missouri Department of Conservation (mo.gov). Resources (compendium) for planning include: Atlas of Missouri Ecoregions (this publication can also be found here); MDC **Forest Management Planning** Conservation Opportunity Areas; MDC Continuous Forest Inventory; Conservation Commission Policy - Area Planning; MFMG - 11 - Missouri Forest Management Guidelines - Chapter 11: Generally Accepted Principles for Silviculture; MDC Vegetative Management Scheduling and Documentation. Restoration goals are prioritized by areas classified using a Tiered system, described and available here, Missouri Comprehensive Conservation Strategy - MDC Tiered Approach to Natural Community and Habitat Management (arcgis.com) Sustainable Harvest Levels are maintained through use of: 1. Inventory and Planning: Area Managers use multiple data sources like Ecological Land Classification System, Web Soil Survey, GIS data, Natural Heritage Database, and more for forest inventory. They work under the guidance of the Forestry Field Programs Supervisor and follow an inventory schedule. 2. Reentry Periods: Harvesting cycles are between 10 and 20 years depending on site quality and overall objectives. 3. No Fixed Cut: Missouri Department of Conservation (MDC) doesn't set a fixed allowable cut but focuses on natural community restoration. 4. Research and Modeling: Ongoing research using LANDIS and MOFEP data for growth and yield modeling. 5. Area Control Method: Previously used to calculate sustainable harvest levels to address **Sustainable Harvest** neighbor concerns. **Level Assessment** 6. Continuous Forest Inventory (CFI): Implemented in 2010, it involves 462 plots across 8 regions. One-fifth of these are measured annually to calculate sustainable harvest levels. **References:** CFI Summary Report - 2021.pdf Atlas of Missouri Ecoregions **MDC Conservation Opportunity Areas** MDC Continuous Forest Inventory Conservation Commission Policy - Area Planning Missouri Forest Management Guidelines - Chapter 11 MDC Vegetative Management Scheduling and Documentation FY'20 State Land Accomplishments Metrics Current Harvest Trends: Fall within long-term sustainable levels identified in the forest management plan. Inventory Systems: CFI started in 2010, used for annual or periodic harvest level determination. **Monitoring Program** Periodic Updates: Inventory and harvest plans are updated to account for Description environmental changes like drought, climate change, etc. Documentation: All practices and treatments are recorded in Forestry E-GIS and MOFITS. Social, Environmental, Economic Impacts: Management considers local and regional impacts.

Additional Tools: Various guidelines and policies provide the framework for management practices.
Technologies and Systems Used
MOFITS: Data collection system for timber sale documentation and forest inventory.
<ul> <li>Forestry E-GIS: Geographical Information System for forest management.</li> </ul>
Survey 123: New reporting system in development.
Public Lands Performance Reporting Tool: Used by field staff to report
accomplishments.
References above.

# 3. Audit Process

# **3.1** Applicable Standards and Audit Objectives

Certificate Code	SCS-SFI/FM-010232 Valid from 5 October 2023 Expiry Date 18 October 2027		
	☐ Stage 1, Preliminary Review Audit	☐ Stage 2, Certification Audit	
	☐ Re-Certification	☐ COVID-19 Additional Surveillance	
Audit Type	$\boxtimes$ 1 <sup>st</sup> , $\square$ 2 <sup>nd</sup> , $\square$ 3 <sup>rd</sup> or $\square$ 4 <sup>th</sup> Surveilland		
Addit Type	☐ Transfer ☐ Expansion of Scope		
	☐ Other (describe):	Expansion of Scope	
		ectives 1-17. Objectives 1-17: 3, 6, 11, 15, 16, and 17	
	✓ SFI: Rules for Use of SFI On-Product	•	
	☐ SFI: Audits of Multi-Sites	Labels and on Froduct Warks	
Applicable Standards	☐ ATFS: Forest Management, 2021. St	andards 1-8	
	_	pendently Managed Groups. Sections 1-4	
	☐ ATFS: ATFS 2021 Logo Use Guidelin		
Multiple Standards	<ul> <li>         ≥ N/A, this is not a multi-standard nor a multi-CB audit. List/Describe other schemes     </li> </ul>		
SFI Substitute or Modified	None, □ Yes, Substitute or Modified Indicators used and justification:		
Indicators	- 10.1.c, - 103, Judditute of Mounted indicators used and justification.		
Certificate Scope/ Statement	The scope of this audit is "land management on Department of Conservation owned land in the state of Missouri". The audit was conducted against the SFI 2022 Forest Management Standard. The 2023 Audit evaluated Objectives 1-17: 3, 6, 11, 15, 16, and 17. There was no substitution or modification of indicators. Specifically, two objectives of the SFI audit were to, 1) verify that the certified organization's SFI Program is in conformance with the SFI Objectives, Performance Measures, and Indicators, and any additional indicators that the certified organization chooses, and 2) verify whether the certified organization has effectively implemented its SFI Standard program requirements on the ground.		
Description of Sampling Approach	The lead auditor pre-selected field sites to meet sampling requirements of the Standard. For random site/forest selection, the lead auditor used a list of harvest sites done for the prior year to sample a range of conditions and common forest management activities. The preliminary list of sites was submitted to the lead auditor by the certified organization. Alternate sites were selected by the lead auditor to substitute if needed. Forestry environmental risk categories included FORI; RT&E road infrastructure such as road construction and maintenance; stream crossings; BMP or remediation work; riparian areas; planting; chemical/herbicide applications; recreation; and other unique/special sites. The lead auditor adjusted the sampling and itinerary in the following: additional sites were added during the audit within compartments with active and closed timber sales.		
<b>Deviations from the Audit</b>	Were there any significant deviations		

Plan	oximes No $oximes$ Yes. If yes, provide a description and explanation.

#### 3.2 Audit Team

Auditor name:	Beth Jacqmain	Auditor role:	Lead Auditor
Qualifications:	Beth is a qualified Forest Management/Chain of Custody Lead Auditor to SFI and audit		
	team leader for FSC. Beth is SCS Director of Quality Assurance, and Principal/Owner of		
	American Nature Solutions forest certification	n and managem	ent consultancy. Beth has
	over 18 years' experience as a forest manage	ment practition	er including private
	consulting, public land management, and private corporate forest management working		
	with landowners and harvest crews. Beth has over 13 years forestry audit experience. She		
	is a member of the Forest Stewards Guild, Society of American Foresters, Society for		
	Conservation Biology, and Ecological Society	of America. SAF	Certified Forester #1467, MS
	Forest Biology/Ecology, Auburn University, BS Michigan State University. Qualified ANSI		
	RAB accredited ISO 14001 EMS Lead, ISO 190	11, and 17021 C	lMS.

## 3.3 Total Time Spent on Audit

A.	Number of days spent on-site for the Audit	4
В.	Number of auditors participating in on-site audit	1
C.	Number of days spent by any technical experts (in addition to amount in line A)	0
D.	Additional days spent on preparation, stakeholder consultation, and follow-up	5
E.	Total number of person days used in audit	10

## 3.4 Summary of Audit Itinerary and Site Visits

Location(s) sampled	Central and Ozark Regions
Number of field sites	10
Summary of Cover Types visited	Central hardwoods. Noting that MDC managed based on eco-types and ecosystem restoration goals drives all management, not timber production. As such standard cover types are gradually being converged with ecological plant/wildlife community units over time.
Summary Description /Number of Silviculture Activities inspected	The audit reviewed the full range of standard MDC management of silviculture activities including harvests from thinnings to clearcuts, patch cuts, and active prescribed burning program, scarification projects, and others designed to restore, maintain, and enhance native plant communities and ecosystems.
Summary Description /Number of Harvest Areas inspected	The audit included 6 active and closed timber sales used to achieve restoration goals to examine BMPs, potential environmental impacts, and review documentation and process aspects.
Summary Description of Road infrastructure inspections	Roads were examined throughout the audit, were well done and in good condition. Road projects were primarily maintenance and culvert replacement work.

## 3.5 Evaluation of Management Systems

SCS deploys teams with expertise in forestry and other relevant fields to assess the certified organization's conformance to SFI standards and policies. Audit methods include reviewing documents and records, interviewing personnel and contractors, implementing sampling strategies to visit a broad number of forest cover and harvest prescription types, observing implementation of management plans and policies in the field, and collecting and analyzing relevant stakeholder input. When there is more than one team

member, each member may review parts of the standards based on their background and expertise. Applicable aspects of the Management System under evaluation, such as Management System Review and other relevant Objectives, Performance Measures, and Indicators will also inform the audit team. On the final day of an evaluation, team members convene to deliberate the findings of the audit jointly. This involves an analysis of all relevant field observations, interviews, reviewed documents and records, and relevant stakeholder input. Where consensus among team members cannot be achieved due to lack of evidence, conflicting evidence or differences of interpretation of the standards, the team is instructed to report these in the certification decision section and/or in observations.

#### 3.6. Changes to Management System

$\boxtimes$	There were no significant changes in the management and/or harvesting methods that affect the
	FME's conformance to the SFI standards, rules, and policies.
	Significant changes that affect the management system occurred since the last audit described as
	follows (describe):

#### 3.7 Confirmation of Meeting Audit Objectives

- 1. Determination of the conformity of the client's management system, or parts of it, with audit criteria (Selected Objectives, Performance Measures, and/or Indicators).
- 2. Determination of the ability of the management system to ensure the client meets applicable statutory, regulatory and contractual requirements.
- 3. Determination of the effectiveness of the management system to ensure the client can reasonably expect to achieve specified objectives.
- 4. As applicable, identification of areas for potential improvement of the management system.

The objectives for this audit included:

Audit Objectives were met.	Yes ⊠ No ☐ If no, provide an explanation:

#### 4. Results of Audit

## 4.1 Grading of Possible Findings

Once a consensus is reached by the audit team, determinations of grading are made as to the level of findings. Grading of findings may occur as follows:

- Major CARs: Major Corrective Action Requests (CARs) occur when one or more of the SFI 2022 Standard(s) performance measures or indicators has not been addressed or has not been implemented to the extent that a systematic failure of a Certified Organization's SFI system to meet an SFI objective, performance measure or indicator occurs.
- *Minor CARs:* An isolated lapse in SFI 2022 Standard(s) implementation which does not indicate a systematic failure to consistently meet an SFI objective, performance measure or indicator.

- Opportunities for Improvement: Opportunities for Improvement (OFIs) are identified by audit team members where the client is in conformance, but there is a risk to conformance in the future.
   Nonconformance with the standard requirements cannot be recorded as OFIs.
- Exceeds: Practices that exceed the basic requirements of the SFI 2022 Standards and Rules for Forest Management or Fiber Sourcing.

#### 4.2 Table of Audit Results and History of Findings for Certificate Period

This table lists Findings to the Performance Measure and/or Indicator level for each year of the certificate period and is updated annually.

SFI Objective	Cert/Re-cert Evaluation (2022)	1 <sup>st</sup> Annual Evaluation (2023)	2 <sup>nd</sup> Annual Evaluation (2024)	3 <sup>rd</sup> Annual Evaluation (2025)	4 <sup>th</sup> Annual Evaluation (2026)
No findings	$\boxtimes$	$\boxtimes$			
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
COC					
Trademark					
Group	N/A	N/A	N/A	N/A	N/A
Other					

## 4.3 General Description of Evidence of Conformity

This section summarizes the general evidence found to verify conformity that is detailed in Appendix 5.

SFI Objective	Summary of Evidence
Objective 1. Forest Management Planning. To ensure	Not evaluated in 2023.
forest management plans include long-term	
sustainable harvest levels and measures to avoid	
forest conversion or afforestation of ecologically	
important areas.	

	I
<b>Objective 2. Forest Health and Productivity.</b> To	Not evaluated in 2023.
ensure long-term forest productivity and conservation	
of forest resources through prompt reforestation,	
afforestation, deploying integrated pest management	
strategies, minimized chemical use, soil conservation,	
and protecting forests from damaging agents.	
Objective 3. Protection and Maintenance of Water	All harvest sites in the audit complied with the
Resources. To protect the water quality and water quantity of rivers, streams, lakes, wetlands, and other water bodies.	Missouri Watershed Protection Practices (BMP), exceeding guidelines in some areas such as stream management zones. While water bars are in place on roads and skid trails, they do require ongoing monitoring to ensure proper installation by loggers. Timber harvests are subject to inspections that check for BMP compliance; although there's some variability in how inspection forms are filled out, this hasn't led to any program failure. Stream crossings observed during the audit were executed exceptionally well, effectively preventing sediment from entering the water. Logging contracts have built-in clauses that mandate BMP compliance. Overall, the agency relies on the implementation of BMPs to maintain water quantity. Its forest management activities are conducive to this aim, given the minimal clear-cutting and the largely forested nature of the lands, which ensure a stable flow of water.
Objective 4. Conservation of Biological Diversity.	Not evaluated in 2023.
To maintain or advance the conservation of biological	
diversity at the stand- and landscape- level and across	
a diversity of forest and vegetation cover types and	
successional stages including the conservation of	
forest plants and animals, aquatic species, threatened	
and endangered species, Forests with Exceptional	
Conservation Value, old-growth forests and	
ecologically important sites.	
Objective 5. Management of Visual Quality and	Not evaluated in 2023.
Recreational Benefits. To manage the visual impact of	
forest operations and provide recreational	
opportunities for the public.	
Objective 6. Protection of Special Sites. To manage	MDC manages the natural heritage database, which
lands that are geologically or culturally important in a	includes information on cultural and historical
manner that takes into account their unique qualities.	resources. The potential presence of these
and the second s	resources is examined during activity planning
	processes
Objective 7. Efficient Use of Fiber Resources. To	Not evaluated in 2023.
minimize waste and ensure the efficient use of fiber	
resources.	
resources.	

Objective 8. Recognize and Respect Indigenous	Not evaluated in 2023.	
	NOT Evaluated III 2025.	
Peoples' Rights. To recognize and respect Indigenous		
Peoples' rights and traditional knowledge.	Not evaluated in 2023.	
Objective 9: Climate Smart Forestry.	Not evaluated in 2023.	
To ensure forest management activities address		
climate change adaptation and mitigation measures.	N	
Objective 10. Fire Resilience and Awareness.	Not evaluated in 2023.	
To limit susceptibility of forests to undesirable		
impacts of wildfire and to raise community awareness		
of fire benefits, risks, and minimization measures.		
Objective 11. Legal and Regulatory Compliance.	MDC employs contract terms, planning, training,	
To comply with all applicable laws and regulations	and monitoring to achieve and ensure regulatory	
including, international, federal, provincial, state, and	compliance. A written policy addressing social laws,	
local.	including gender equality and diversity, is in place.	
Objective 12. Forestry Research, Science and	Not evaluated in 2023.	
<b>Technology.</b> To invest in research, science, and		
technology, upon which sustainable forest		
management decisions are based.		
<b>Objective 13. Training and Education.</b> To improve the	Not evaluated in 2023.	
implementation of sustainable forestry through		
appropriate training and education programs.		
Objective 14. Community Involvement and	Not evaluated in 2023.	
<b>Landowner Outreach.</b> To broaden the practice of		
sustainable forestry through public outreach,		
education, and involvement, and to support the		
efforts of SFI Implementation Committees.		
Objective 15. Public Land Management	The agency is required to get input from the public	
Responsibilities. To participate and implement	and adjoining landowners as part of its area	
sustainable forest management on public lands.	planning process. This is a formal process, but also	
	includes opportunities during public outreach	
	efforts.	
Objective 16. Communications and Public Reporting.	MDC's 2022 recertification audit report as found on	
To increase transparency and to annually report	the SFI; Inc. website as required for public review.	
progress on conformance with the SFI Forest	MDC provides copies of past reports publicly	
Management Standard.	online.	
Objective 17. Management Review and Continual	MDC has instituted a structured data collection	
Improvement. To promote continual improvement in	framework aimed at assessing the agency's	
the practice of sustainable forestry by conducting a	adherence to the SFI standards. Internal audits are	
management review and monitoring performance.	routinely conducted to evaluate this conformance,	
	and the findings are then relayed to senior	
	management. Progress toward SFI objectives is	
	consistently reviewed in both monthly staff	
	meetings and quarterly managerial sessions.	

# **4.4 Existing Corrective Action Requests, OFIs, and Exceeds**

No open findings from prior year audits.

# 4.5 New Corrective Action Requests, OFIs, and Exceeds

No new findings were issued as a result of the 2023 audit.

# 5. Certification Decision

audits and the Certified Organization's response to any open CARs.  Comments: Exceptional stewardship ethic demonstrated by all staff throughout the audit, and also demonstrated a very high level of understanding of the standard and requirements with well organized evidence and materials.	The certificate holder has demonstrated continued overall conformance to the applicable Sustainable Forestry Initiative standards. The SCS annual audit team recommends that the certificate be sustained, subject to subsequent annual		