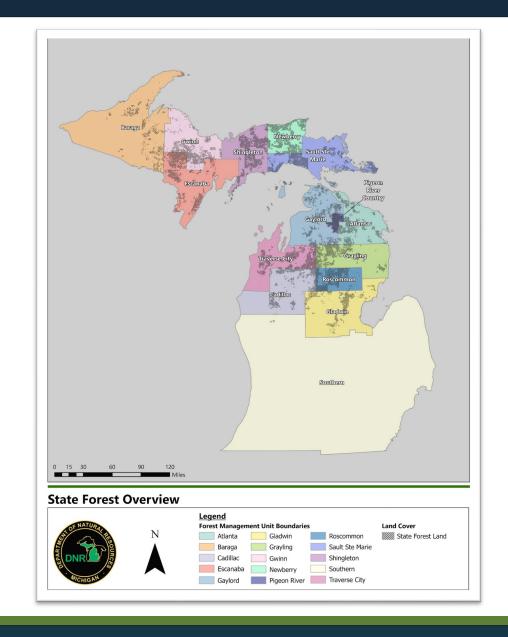
State Forest Management Plan







- Our team
- Legal authority
- Co-management
- What's new in this plan
- Lines of effort
- Plan organization and structure
- Review period
- Questions



Our Team

Forest Resources Division (FRD)

- David Price
- Dan Heckman
- Chad Fate
- Ryan Zimmerman
- Lester Livermore
- John Hamel
- Tori Irving
- Heather Shaw
- Brenda Haskill
- Kathleen Lavey
- Tim Webb
- Scott Jones

Wildlife Division (WLD)

- Amy Derosier
- Erin Victory
- Sherry MacKinnon
- Shelby Adams
- Kristie Sitar
- Mike Donovan

Parks and Recreation Division (PRD)

Deborah Jensen

Fisheries Division (FD)

Darren Kramer

Content Contributors

- Jason Hartman (FRD)
- Matt Fry (FOD)
- Josh Brinks (FRD)
- Patrick Cotant (FRD)
- Chris Hoving (WLD)
- Keith Kintigh (WLD)
- Ryan Wheeler (FRD /WLD)
- Katie Grzesiak (FRD/WLD)
- Heather Shaw (FRD/WLD)
- Stacy Tchorzynski (MHC)
- Paul Rogers (FRD)
- Simeon Wright (FRD)
- Kerry Heckman (FRD)
- Adam Bump (WLD)
- Cody Norton (WLD)
- Tyler Petroelje (WLD)
- Clay Buchanan (WLD)
- Brian Maki (FRD)
- Jack Saj (FRD)
- Rachael Coale (FRD)

- Margaret Spagnuolo (FRD)
- Casey Warner (MOD)
- Beth Fults (MOD)
- Dale Rabe (WLD)
- Brian Mastenbrook (WLD)
- Craig Albright (WLD)
- Hillary Pine (PRD)
- Mark Rasmussen (MB&G)
- Kendrick Greer (MB&G)
- Stephen Handler (NIACS)
- Gary Roloff (MSU)
- Larry Leefers (MSU)

Legal Authority

- NREPA Act 451 of 1994 Part 525
- Requires a management plan for:
 - Stable, long-term, sustainable timber supply
 - Promote and encourage outdoor recreation, tourism, and the forest products industry
 - Incorporate biodiversity conservation goals
 - Identify environmentally sensitive areas
 - Identify forest treatments to maintain and sustain healthy, vigorous forests and quality wildlife habitat



451-1994-III-2-4-MISCELLANEOUS- PART 525 SUSTAINABLE FORESTRY ON STATE FORESTLANDS TOPICS-525 - (324.52501...324.52511)

Section 324.52501 - Definitions.

Section 324.52502 - Management of state forest; manner; duties of department.

Section 324.52503 - Forestry development, conservation, and recreation management plan.

Section 324.52504 - Harvest and sale of timber; deposit of proceeds into forest development fund; report.

Section 324.52505 - Third-party certification that forestry standards satisfied; report.

Section 324.52506 - Report.

Section 324.52511 - Repealed. 2004, Act 123, Eff. Dec. 31, 2011.

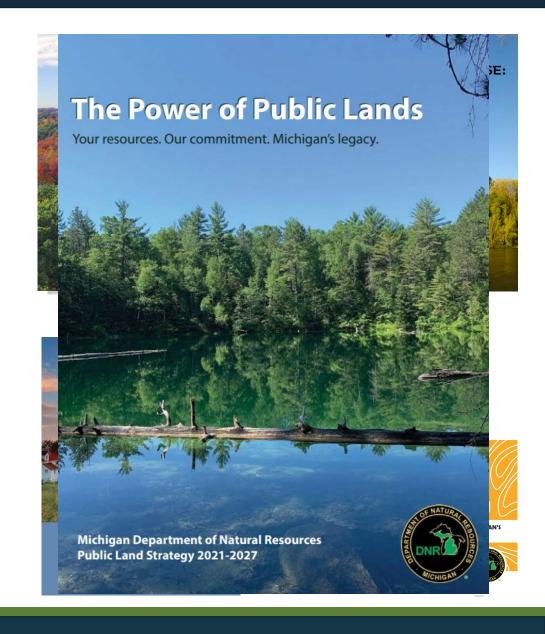
Co-management of the State Forest



- First implemented in 1946 when State Game Areas and State Forests were merged in the northern 2/3 of the State
- Forest Resources Division is the land administering division for the State Forest
- Forest Resources Division and Wildlife Division are jointly responsible for developing the management plans and providing management guidance
- Recreation management on the State Forest has transitioned to Parks and Recreation Division over the last 15 years
- Parks and Recreation Division and Fisheries
 Division provide guidance through the
 compartment review process

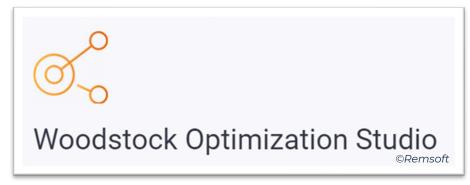
What's new in the 2024 SFMP

- Improved alignment with other plans
 - DNR Land Strategy
 - Forest Action Plan
 - Wildlife Action Plan
 - Statewide Comprehensive
 Outdoor Recreation Plan
 - Trails Plan
 - Division Strategic Plans





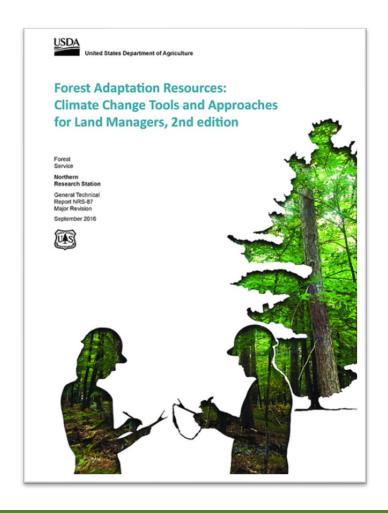
- Robust planning and optimization analytics platform
- Ensures long term sustainability of timber resources and wildlife habitat
- Integrated forest covertype and wildlife habitat management
- Projects future conditions given different management scenarios





What's new in the 2024 SFMP

- Long term sustainability objectives drive short term harvest levels
- Integrated forest covertype and wildlife habitat management
- Reduced # of management areas down to 35
- Combined 4 existing plans into 1
- Integration of climate smart management direction in each management priority



Lines of Effort

SFMP Model

Scenario Development Preferred

Management

Scenario

Planning Framework

Planning Process Desired Future Conditions

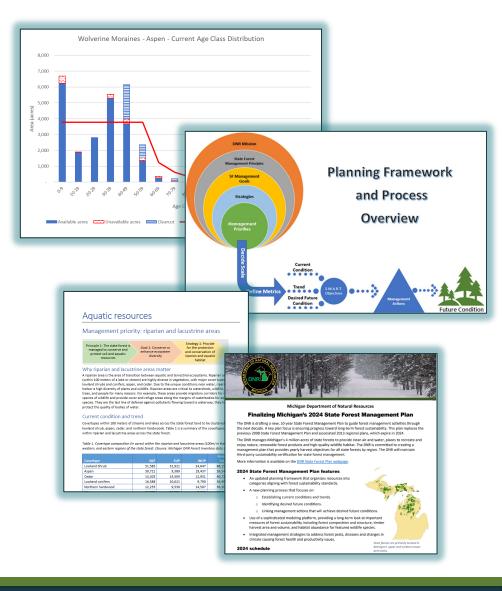
Writing the Plan

Statewide and Regional Management Priorities

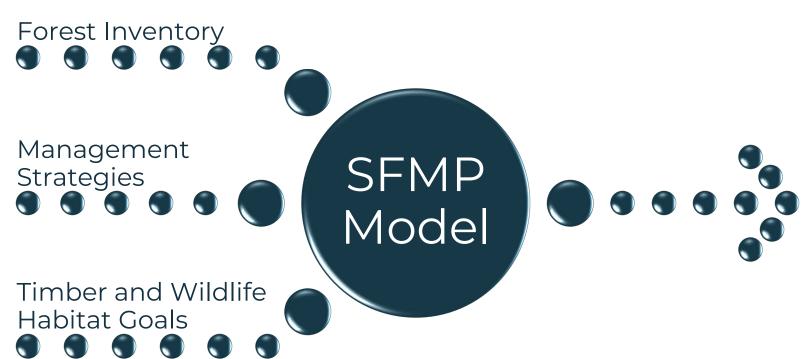
Management Areas

Engagement

Internal Collaboration External Consultation



Modeling Effort









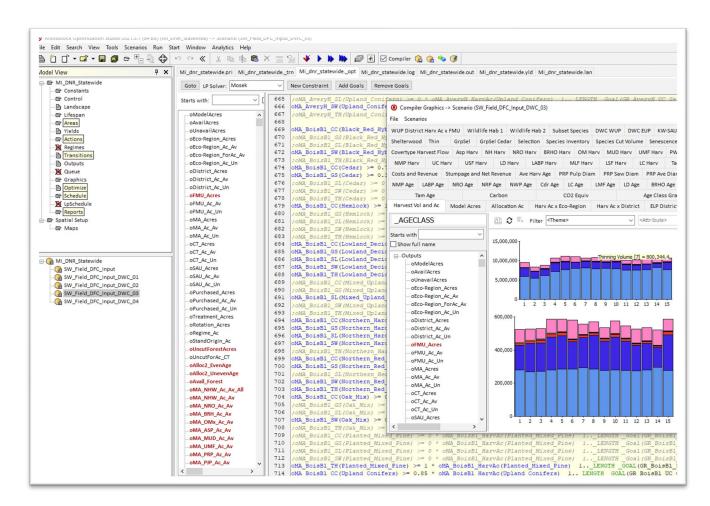






Modeling Effort - Overview

- Future forest conditions
 - Age, covertype, basal area
- Landscape habitat abundance
 - Featured species potential habitat
 - Forest diversity matrix
- 10-year projected harvest levels
 - Management areas
 - Special analysis units



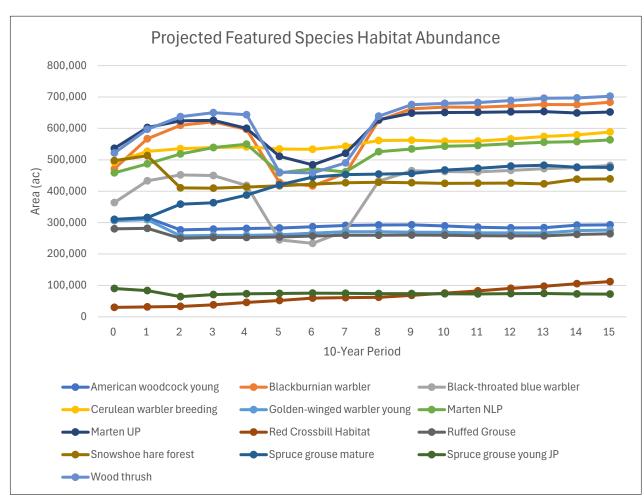
Modeling Effort – Landscape Habitat Conditions (LHC) Table 1. State forest featured species and their associated landscape habitat conditions.

- Broad habitat conditions that are aggregates of covertypes and conditions
- LHCs are of primary management importance
- May be underrepresented at a large scale through standard management
- Outputs were created to track LHCs in scenarios

Feature species (Habitat niche if specified)	Young Forest	Mature Forest	Interior Forest	Mast	Mesic Conifer	Big Trees	Natural Disturbance	Openings	Mature Forests: Dense Understory	Mature Forests: Open Understory
Kirtland's warbler	X		X							
Ruffed grouse	X	-								
Elk	X	-		X				X		
Snowshoe hare	X	-								
American marten		X	X		X	X	-			
Cerulean warbler		X	X			x			X	
Blackburnian warbler		X	X		X	X			-	X
Black-throated blue warbler		X	X			X	-		x	
Wood thrush		X					-			X
Red crossbill (conifer forest)		X				X	-	-	-	X
White-tailed deer		X		X			-			
Black-backed woodpecker		-					X		-	
Sharp-tailed grouse							-	X	-	-
Wild turkey		-		X			-	X	-	
Golden-winged warbler		-					-	X	-	
American woodcock	X	-					-	X	-	
Black bear		-		X			-			
Spruce grouse (conifer forest)	X	х					-		х	-

Modeling Effort – Featured Species Habitat

- Model outputs were created to represent the amount of habitat conditions that exist for each species (typically nesting / breeding)
- Enabled us to track habitat abundance over time for each species in each MA in every scenario
- Able to set goals or constraints for each species when necessary (Special Analysis Units)



Modeling Effort - Special Analysis Units

- Grouse Enhanced Management System
- Elk Management Plan
- Pigeon River Country Concept of Management
- Kirtland's Warbler Management Plan
- Deer Wintering Complexes



Modeling Effort - Deer wintering Complexes (DWC)

Deer Winter Range Goal:

- Sustainably manage shelter and food resources on deer winter range to reduce overwinter deer population fluctuations by:
 - Maintaining or enhancing conifer shelter thereby facilitating deer movement to obtain food and avoid predation
 - Providing high quality food adjacent to shelter

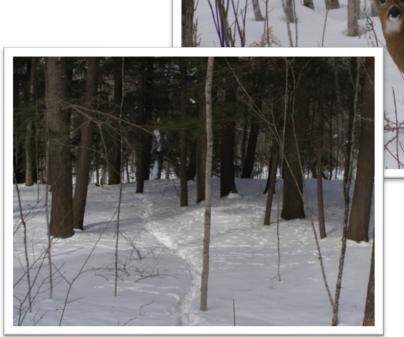


Modeling Effort - Deer wintering Complexes (DWC) Goals

Deer Wintering Complex Goals:

 Balance the area of cover types that provide food and shelter across the DWC over time

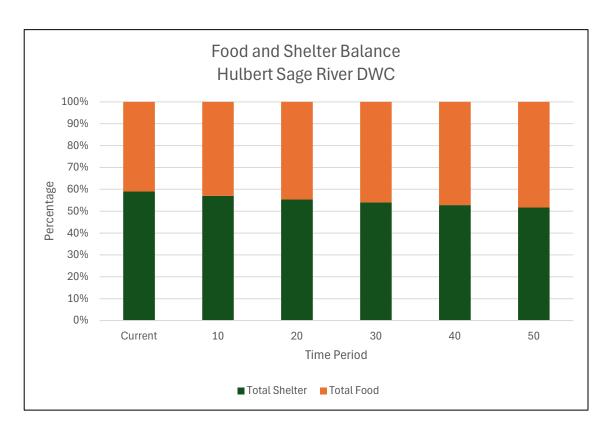
- Maintain a sustainable condition within each DWC where:
 - Functional food is always available
 - Functional shelter is always available



Modeling Effort - Deer wintering Complex (DWC)

Balancing the area of cover types that provide food and shelter across the DWC over time:

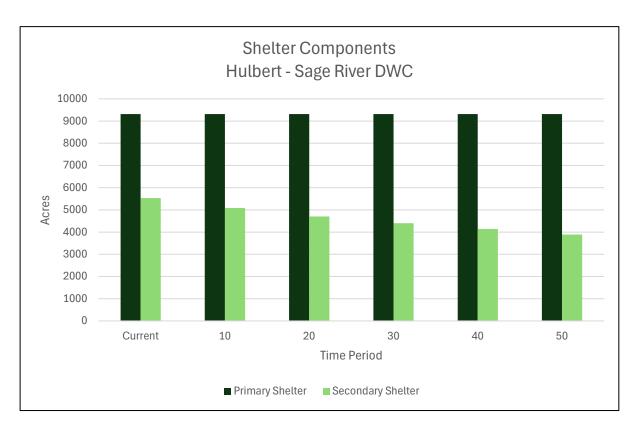
- Achieved by harvesting stands and encouraging them to transition to other cover types as they regenerate
- Natural or artificial regeneration



Modeling Effort - Deer wintering Complexes (DWC)

Maintaining cover types that provide functioning shelter:

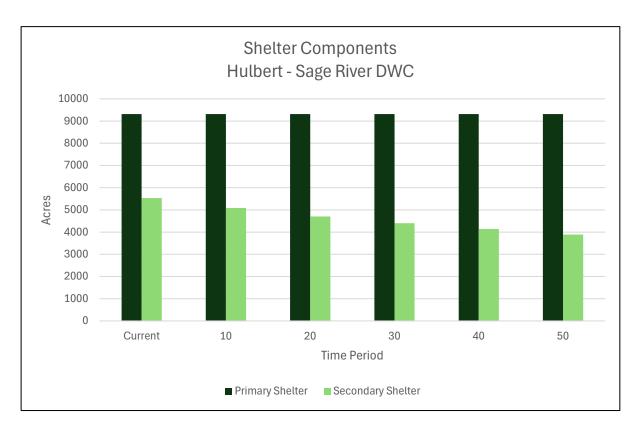
- Primary shelter cover types
 - Cedar
 - Hemlock
- Dominated by long-lived tree species
- Difficult to regenerate when managed
- No active management projected in the SFMP within DWCs



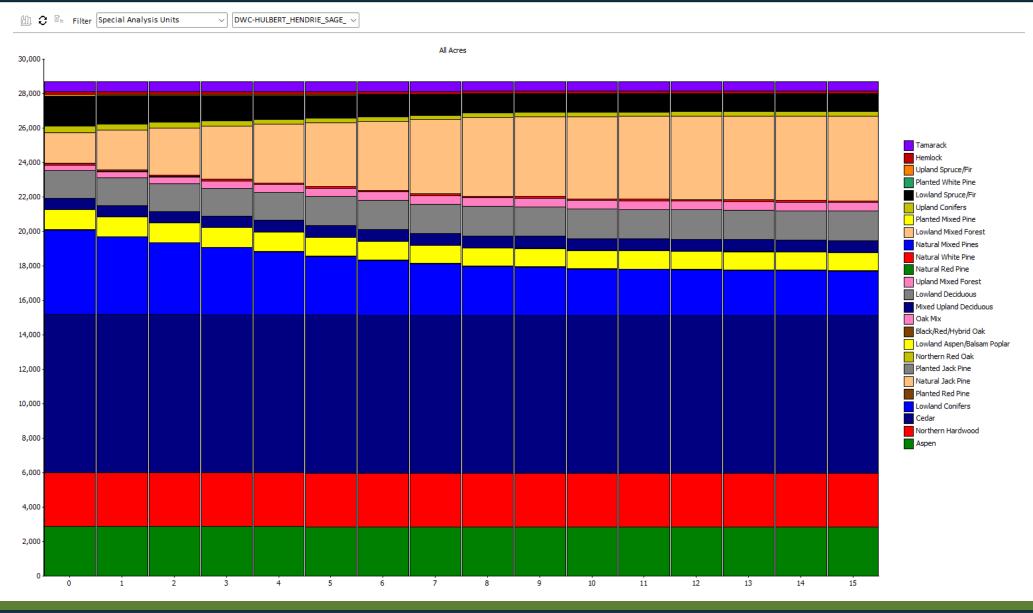
Modeling Effort - Deer wintering Complexes (DWC)

Maintaining cover types that provide functioning shelter:

- Secondary shelter
 - Lowland Spruce / Fir
 - Lowland Conifer
- Contain shorter lived tree species (80 – 150-year life span)
- Management is necessary to maintain in healthy condition
- Can be converted to food when deciduous species are mixed in

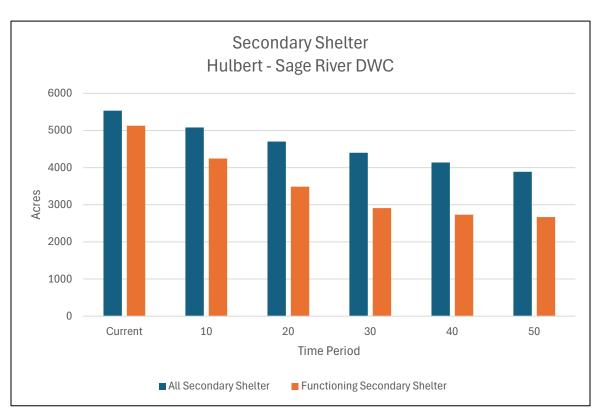


Cover type conversions



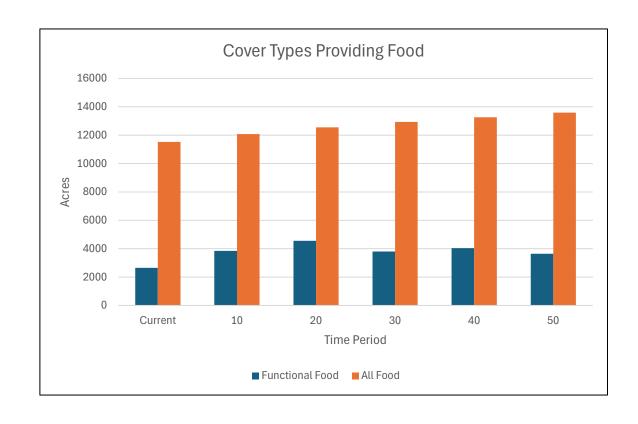
Modeling Effort - Deer wintering Complexes (DWC)

- Secondary Shelter Management
- Actively managed using area regulation principles
- 75 90% of all secondary shelter remains as functional shelter during management

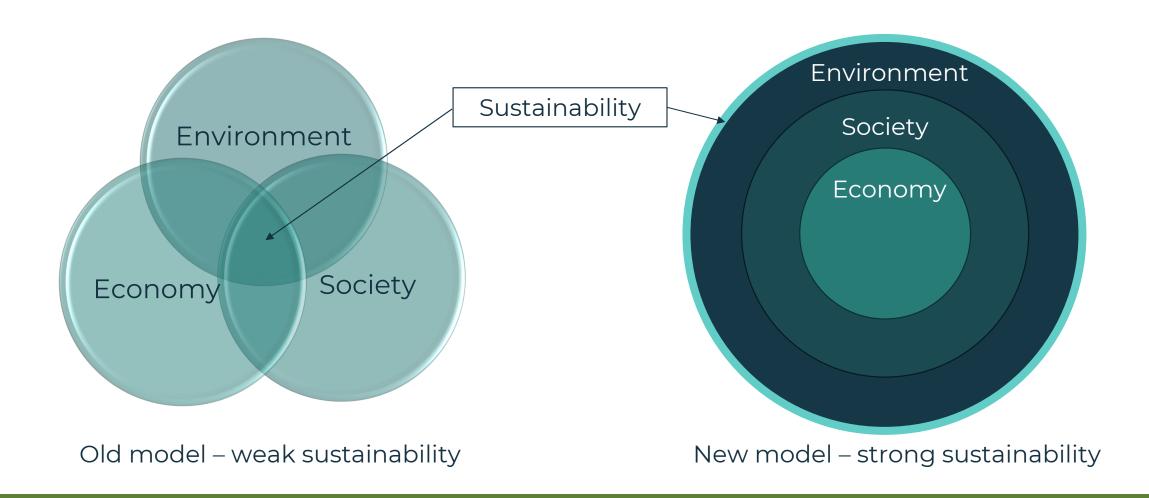


Modeling Effort - Deer wintering Complexes (DWC)

- Cover types providing food
 - Aspen
 - Northern Hardwoods
 - Lowland Mixed Forest
- Actively managed using area regulation principles
- 20-30 % is providing functional food at any time



Planning Framework Effort



Planning Framework Effort

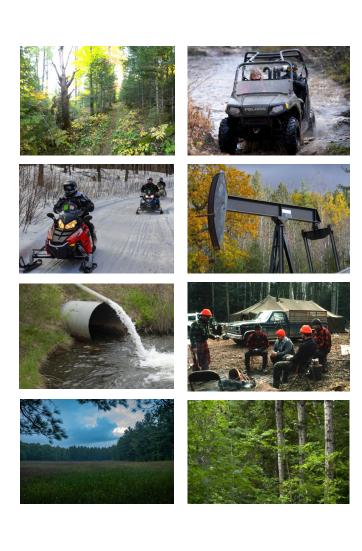
Established 7 Management Principles that are aligned with **Montreal Process Criterion & Indicator Framework** for measuring **progress toward forest sustainability**.

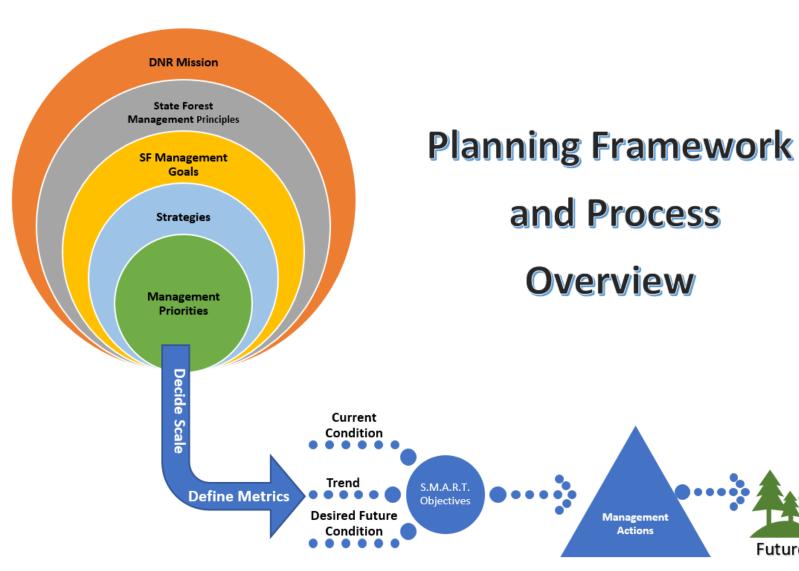
The state forest is managed to...

- 1. conserve or enhance biological diversity.
- 2. maintain productive capacity.
- 3. promote ecosystem health and vitality.
- 4. conserve and protect soil and aquatic resources.
- 5. provide opportunities for social and economic benefits.
- 6. respond to a changing climate.
- 7. protect cultural and historic resources.



Our mission: We are committed to the conservation, protection, management, use and enjoyment of the state's natural and cultural resources for current and future generations.

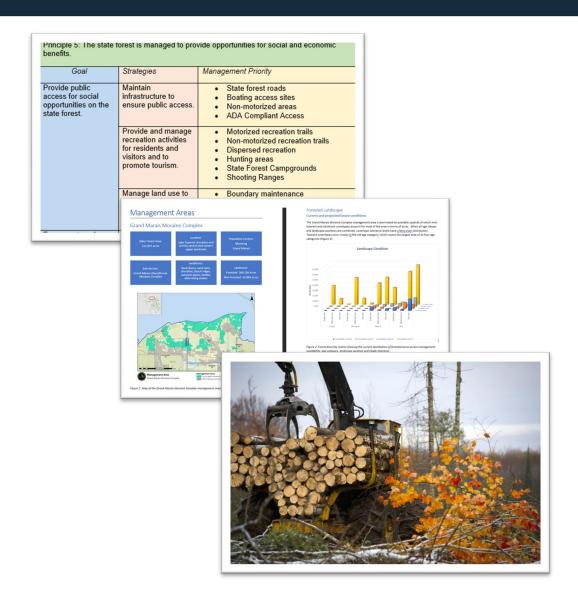




Future Condition

Writing Effort

- Transition from planning framework to topic-based plan organization
- Managing at different scales
 - Section 3: Statewide and regional management priorities
 - Section 4: Landscape level covertype and habitat management goals at the management area level and special analysis units



Plan Organization & Structure

Executive Summary

- Introduction
- 2. State Forest History
- 3. Statewide and Regional Planning
- 4. Management Area Planning
- 5. Special Analysis Units
- 6. Implementation
- 7. Monitoring and Revision
- 8. Glossary
- 9. References
- 10. Appendices



Looking Ahead





Providing Input

Email us at: ForestPlanComments@Michigan.gov

More Info at: State forest planning (michigan.gov)



