



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41101

Entry Year 2021

Acreage: 1,541

County Alger

Management Area: Grand Marais Moraine Complex

Stand Examiner: Mario Molin

Legal Description:

T50N, R13W, sec. 35, 36; T49N, R13W, sec. 1.

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management.

Soil and topography:

The north part of the compartment is within the critical dunes area, and has steep ridges. Soils include Deer Park Sand 0-60% slopes, and Rubicon Sand 0-6% slopes. The south half of section 1 is more level, and soils include Hiawatha Sand 0-10% slopes, Kalkaska Sand 0-15% slopes, and Rubicon Sand 0-6% slopes.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment is solid State ownership. To the east is State owned land in Luce County. To the west and south are private landowners, and Grand Marais School Forest land.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

HCVA - Critical Coastal Habitat (Piping Plover) along Lake Superior. HCVA - Critical Dunes Act within sec 35, 36, and the north half of sec 1.

Watershed and Fisheries Considerations:

Fisheries values: None
There is no flowing water within this compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Section 1, T49N-R13W & Sections 35 & 36, T50N-R13W, Alger County
Surface sediments consist of lacustrine (lake) sand, gravel, clay & silt. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are located five miles to the west, but there could be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Dirt two-track roads are found throughout the compartment. Illegal ORV use is prevalent.

Survey Needs:

Yes

Recreational Facilities and Opportunities:

The North Country Trail runs through the compartment along the Lake Superior shoreline. The area is often used for dispersed camping along the lakeshore, blueberry picking, and hunting.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

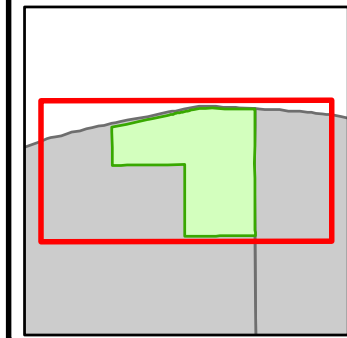
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

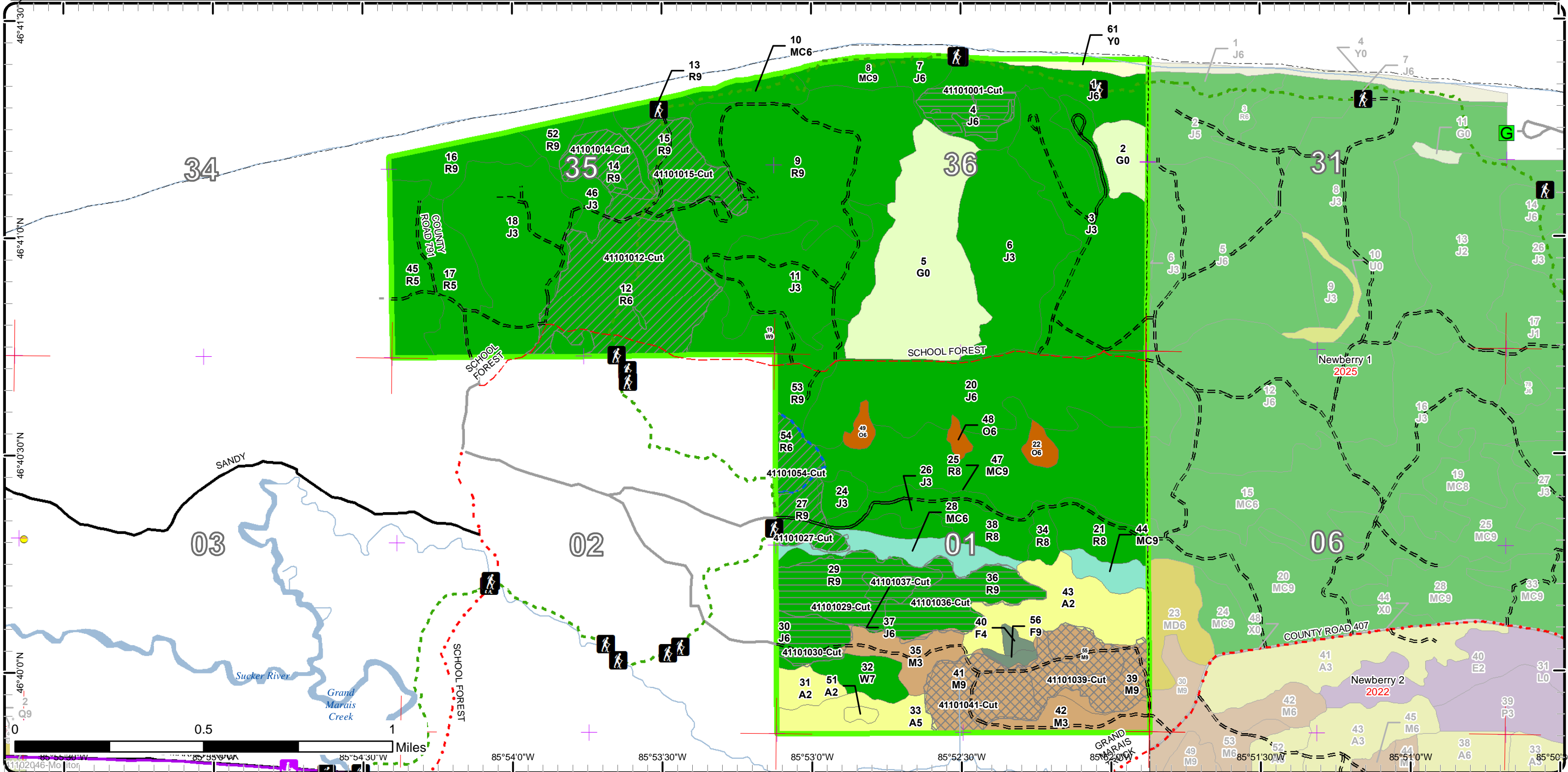
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 101
 T49N, R13W, Sec: 01
 T50N, R13W, Sec: 35, 36
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
 Acres: 1541.5 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 9/20/2023
 Map Phase: Post Review

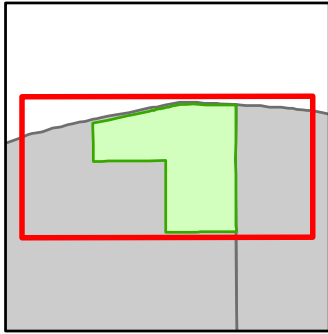


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- G Gate
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 310 - Herbaceous Openland
- 710 - Sand/Soil

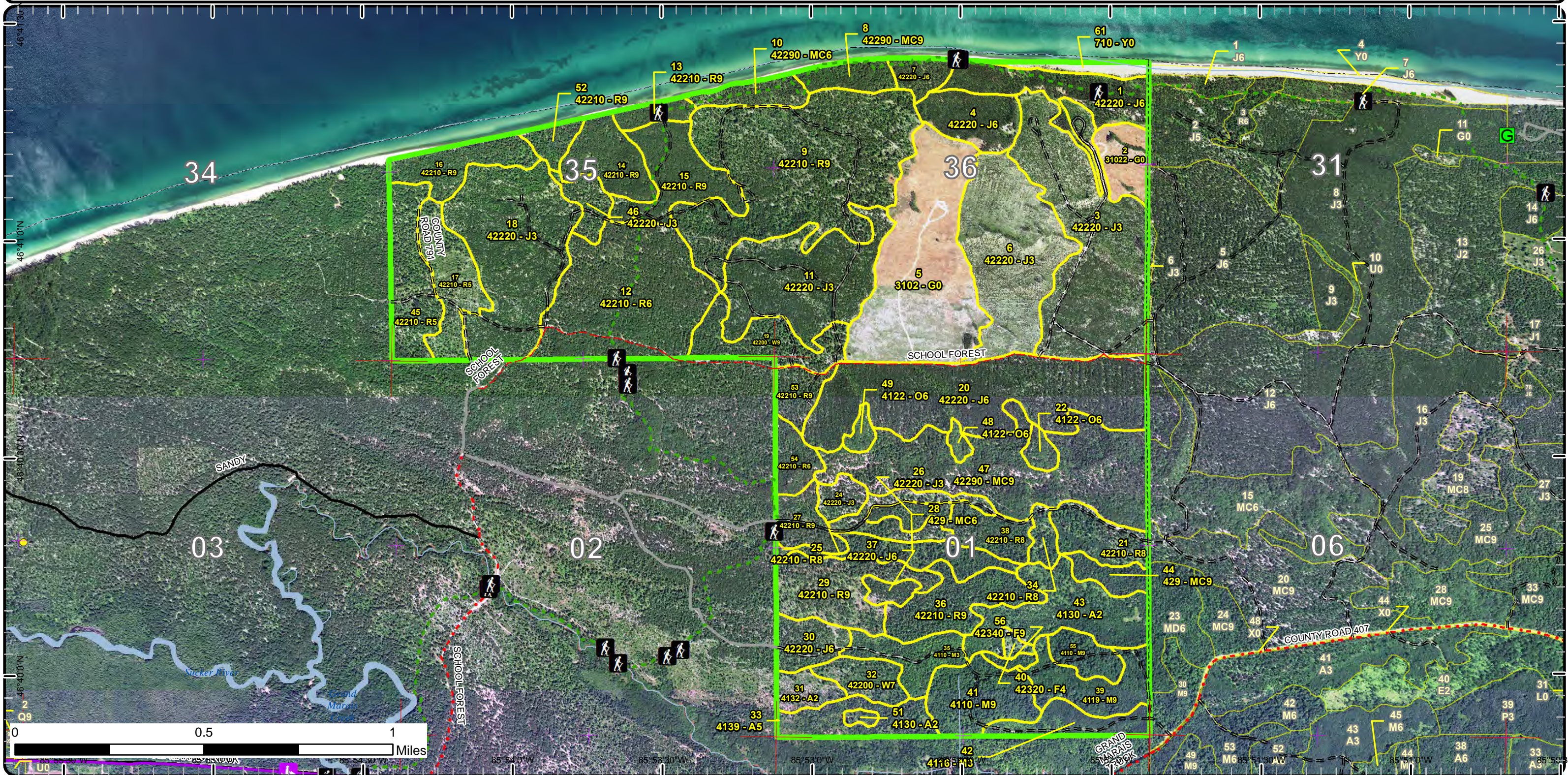


Stand Boundary Map

Compartment: 101
 T49N, R13W, Sec: 01
 T50N, R13W, Sec: 35, 36
 County: Alger
 Unit: Shingleton
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 Moraine Complex
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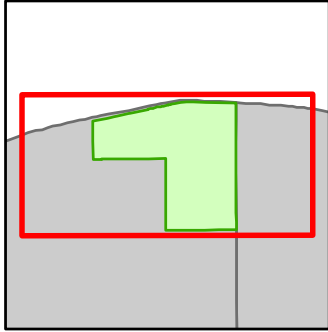


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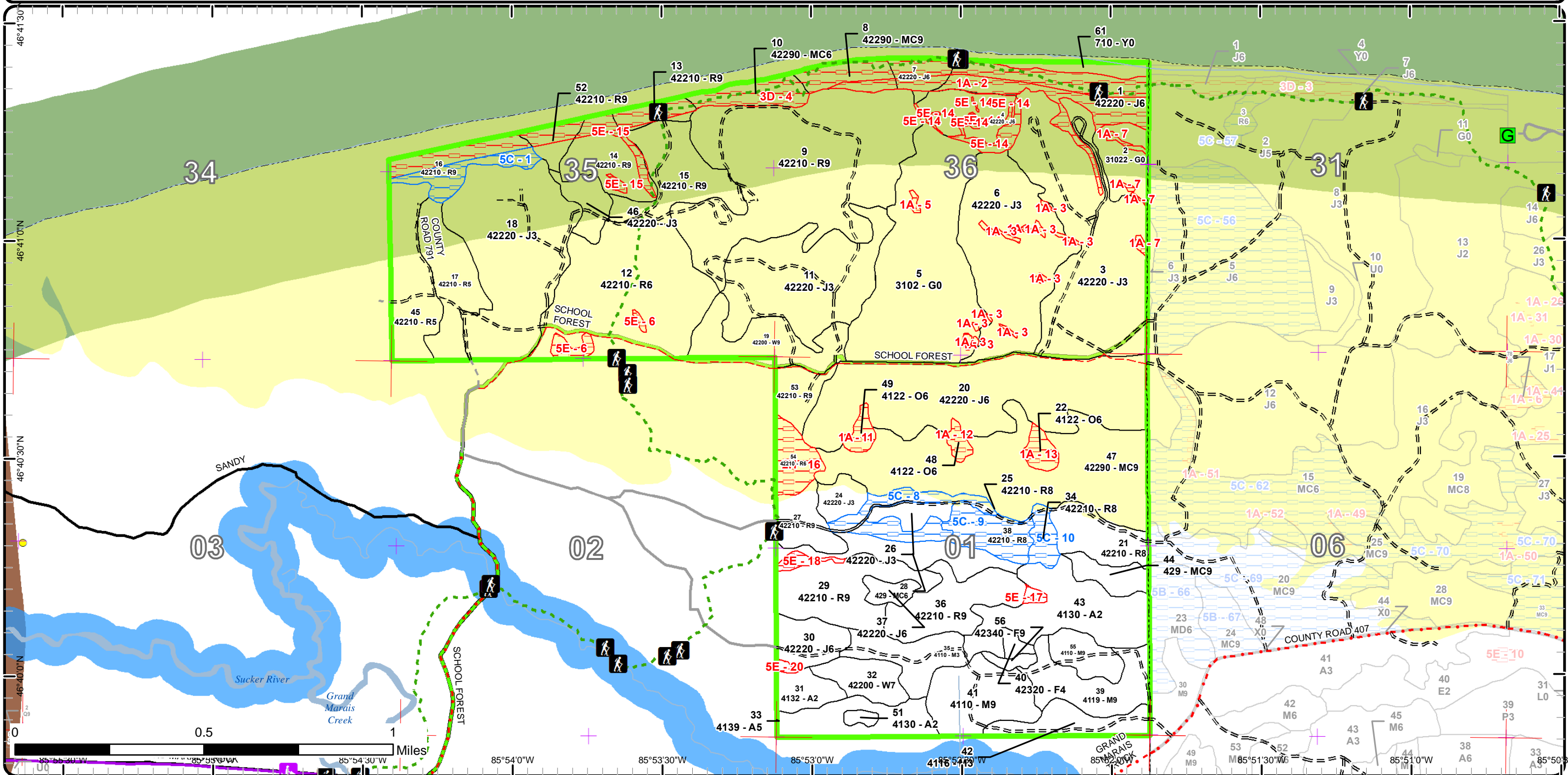


Special Conservation Areas

Compartment: 101
 T49N, R13W, Sec: 01
 T50N, R13W, Sec: 35, 36
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2021
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- 🚶 Hiking Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- 🚪 Gate
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5E: Long-Term Retention
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- Stand Boundaries
- Critical Dunes
- Critical Coastal Habitat (Piping Plover)
- Natural Beauty Roads
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	0	12	0	43	21	0	0	0	0	0	0	0	0	0	0	0	0	76
Herbaceous Openland	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Jack Pine	0	0	70	99	77	194	5	0	0	9	0	55	0	0	0	0	0	14	522
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	95	24	0	0	0	0	0	0	0	119
Northern Hardwood	0	0	0	17	19	0	0	0	25	0	0	0	0	0	0	0	0	41	102
Oak	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	0	0	0	0	0	69	237	62	22	0	0	0	0	0	130	520
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	29
Upland Spruce/Fir	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	0	26	14	0	0	0	0	0	0	0	0	40
Total	117	0	82	116	139	215	37	3	131	355	86	77	0	0	0	0	0	185	1542



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 101

Total Compartment Acres: 1,541

Commercial Harvest - 309
 Harvests with Site Condition - 11
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	35	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	66	0	0	0	0	0	0	0	66
Red Pine	63	0	0	0	0	156	0	0	0	219
Total	98	66	0	0	0	156	0	0	0	320

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	320	0	0	0	0	0	0	0	0	320
Next Step	0	113	98	0	0	165	164	0	0	540
Total	320	113	98	0	0	165	164	0	0	861



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

4	41101001-Cut	15.2	42220 - Natural Jack Pine	Poletimber Well	102	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with retention, retention will be north along lakeshore as well as any slopes meeting the critical dunes specs. Prescribed area will likely change significantly at time of prep.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Jack Pine and other species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

12	41101012-Cut	81.1	42210 - Natural Red Pine	Poletimber Well	81	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
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Prescription Mark up to 1/3 the BA not dropping below 110BA.

Specs: North country trail is in the stand as well as critical dunes. Mark accordingly, protect trail with marking and/or sale specs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

14	41101014-Cut	16.9	42210 - Natural Red Pine	Sawtimber Well	81	171-200	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
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Prescription Mark up to 1/3 the BA not dropping below 110BA.

Specs: Blow rows thru the stand, has not been thinned and BA is high.

North country trail is in the stand as well as critical dunes. Mark accordingly, protect trail with marking and/or sale specs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15	41101015-Cut	32.3	42210 - Natural Red Pine	Sawtimber Well	81	171- 200	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark up to 1/3 the BA not dropping below 110BA. <u>Specs:</u> Blow rows thru the stand, has not been thinned and BA is high. North country trail is in the stand as well as critical dunes. Mark accordingly, protect trail with marking and/or sale specs. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
27	41101027-Cut	14.4	42210 - Natural Red Pine	Sawtimber Well	91	111- 140	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand, remove up to 1/3 of the BA not falling below 110BA. Mark accordingly to protect trail with marking and/or sale specs. if trail is <u>Specs:</u> on State land. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
29	41101029-Cut	32.1	42210 - Natural Red Pine	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, replant to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
30	41101030-Cut	14.2	42220 - Natural Jack Pine	Poletimber Well	46	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, retention will likely be against stand 35 or an island in the middle of stand. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	41101036-Cut	31.2	42210 - Natural Red Pine	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release <u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
37	41101037-Cut	5.2	42220 - Natural Jack Pine	Poletimber Well	55	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut and convert to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release <u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
39	41101039-Cut	22.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	72	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark down to 80BA, do not mark elm unless needed for operations. Regen holes should be 50-75ft open canopy.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
41	41101041-Cut	31.2	4110 - Sugar Maple Association	Sawtimber Well	84	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Mark down to 80BA, do not mark elm unless needed for operations. Regen holes should be 50-75ft open canopy.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
54 41101054-Cut	11.4	42210 - Natural Red Pine	Poletimber Well	78	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark up to 1/3 the BA not dropping below 110BA. Do not cut oak unless needed for operations. <u>Specs:</u> Blow rows thru the stand, has not been thinned and BA is high. Open up around oak where possible Critical dunes mark accordingly.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Blocked by Obstacle <u>Proposed Start Date:</u> 10/1 /2030</p>										
55 41101055-Cut	12.0	4110 - Sugar Maple Association	Sawtimber Well	77	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark down to 80BA, do not mark elm unless needed for operations. Regen holes should be 50-75ft open canopy. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 320.1
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 101
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	5C	1A	2H	3D	5E
76	76	0	0	Aspen				
109	106	0	3	Herbaceous Openland		3		
517	470	0	47	Jack Pine		25	20	2
119	95	0	24	Natural Mixed Pines		3	21	
102	102	0	0	Northern Hardwood				
11	0	0	11	Oak		11		
521	425	48	47	Red Pine	48		11	25
8	8	0	0	Sand, Soil				
29	29	0	0	Upland Conifers				
5	5	0	0	Upland Spruce/Fir				
39	39	0	0	White Pine				
1,535	1,355	48	132	Total Forested Acres	48	42	11	66
	88%	3%	9%	Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	1A: Federal/State/Local Law	24	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Critical dunes retention area							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 101
Year of Entry: 2021

3	Unavailable	1A: Federal/State/Local Law	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Critical Dunes area							
4	Unavailable	3D: Recreational / Scenic values	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments: NCT trail, Lake Superior shoreline and critical dunes							
5	Unavailable	1A: Federal/State/Local Law	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Critical Dunes area							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: critical dunes							
7	Unavailable	1A: Federal/State/Local Law	2	5E: Long-Term Retention	2F: Too steep	Unspecified	Unspecified
Comments: Critical dunes retention area							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 101

Mario Molin : Examiner

Year of Entry: 2021

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	1A: Federal/State/Local Law	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Critical dunes.							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 101

Year of Entry: 2021

15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: critical dunes							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unable to access from south using stand 27, slopes are too steep and violate Critical Dunes rules. Delay treatment to go with stand to the North and see if access is possible from there.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
1	42220 - Natural Jack Pine	Poletimber Well	33.5	102	81-110	N/A	Critical Coastal Habitat (piping plovers), Critical Dunes Act, and Potential old growth along Lake Superior. The North Country trail goes through the stand. Steep ridges of Jack Pine, with a few paper birch, oak and red maple in the valleys.																												
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2	31022 - Warm Season Grass	Nonstocked	15.4	0	Unspecified	42220 - Natural Jack Pine	10/27/11 bb Stand is now on proposal 41-30-11 Grand Marais Jack Pine, Unit 1, only cutting jack pine and steep slopes were excluded, DEQ permit is being obtained to cover harvest and regen. FTP C41-1515 submitted for jack pine regen. See locked box. 12/3/12 RFT Stand is now under contract 41-030-11-01 Grand Marais Jack Pine. Scarified by Holli: 7/15/16, units 1,2,3, done together unit 4 done in 2015.																												
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3	42220 - Natural Jack Pine	Sapling Well	98.9	26	Immature	N/A	Critical Dunes Act, north part is also in the Critical Coastal Habitat (piping plover). Scarified in 1997.																												
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4	42220 - Natural Jack Pine	Poletimber Well	21.9	102	81-110	N/A	Critical Coastal Habitat (piping plovers), Critical Dunes Act, and Potential old growth along Lake Superior. The North Country trail goes through the stand. Steep ridges of Jack Pine, with a few paper birch, oak and red maple in the valleys.																												
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5	3102 - Grass	Nonstocked	93.5	0	Unspecified	4222 - Natural Jack Pine	10/27/11 bb Stand is now on proposal 41-30-11 Grand Marais Jack Pine, Unit 2-4, only cutting jack pine and steep slopes were excluded, DEQ permit is being obtained to cover harvest and regen. FTP C41-1515 submitted for jack pine regen. See locked box. 12/3/12 RFT Stand is now under contract 41-030-11-01 Grand Marais Jack Pine. Scarified by Holli: 7/15/16, units 1,2,3 done together, unit 4 in 2015.																												
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6	42220 - Natural Jack Pine	Sapling Well	69.6	19	Immature	N/A	Critical Dunes Act, north part is also in the Critical Coastal Habitat (piping plover). Scarified in 2004.																												
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7	42220 - Natural Jack Pine	Poletimber Well	8.5	89	51-80	N/A	Critical Coastal Habitat (piping plover), Critical Dunes Act, and Potential Old Growth along the Lake Superior shoreline. The North Country Trail goes through the stand. Mix of red and jack pine, with a few scattered supercanopy old growth red pine.																												
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8	42290 - Natural Mixed Pine	Sawtimber Well	11.6	95	81-110	N/A	Critical Coastal Habitat (piping plover), Critical Dunes Act, and Potential Old Growth along the Lake Superior shoreline. The North Country Trail runs through this very scenic stand.																												
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9	42210 - Natural Red Pine	Sawtimber Well	130.1	70	81-110	N/A	Critical Dunes Act, north part is also in the Critical Coastal Habitat (piping plover). BA is variable (20-90). Harvested in 1995; retention areas on steep slopes. Oak planted in openings in 2004.																																				
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12	42210 - Natural Red Pine	Poletimber Well	85.1	81	141-170	N/A	-Critical Dunes Act. The North Country Trail goes through the stand. Natural red pine stand that was thinned in 2002. Scattered super canopy old growth red and white pine.																																				
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14	42210 - Natural Red Pine	Sawtimber Well	22.7	81	171-200	N/A	Critical Dunes Act, critical coastal habitat (piping plover), and potential old growth along lakeshore. Very steep ridges.																																				
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17	42210 - Natural Red Pine	Poletimber Medium	26.8	70	1-50	N/A	Critical Dunes Act, north part is also in the Critical Coastal Habitat (piping plover). Cut in 1998; natural jack pine regeneration. White pine and oak were planted in openings in 2004. Scattered residual red pine, white pine.																																				
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18	42220 - Natural Jack Pine	Sapling Well	80.4	45	1-50	N/A	-Critical Dunes Act, north part is also in the Critical Coastal Habitat (piping plover). Scattered large red and white pine. Oak & WP handplanted in openings by inmates 5/04.																																				
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20	42220 - Natural Jack Pine	Poletimber Well	103.5	43	1-50	N/A	Critical Dunes Act. The stand is a combination of many small cuts in the 1970's, which were scarified and planted. Steep ridges within the stand.																																				
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21	42210 - Natural Red Pine	Sawtimber Medium	18.7	81	1-50	N/A	Shelterwood harvest in 2001. Residual red and white pine with a few oak. South part of stand has less residual trees, and more aspen regeneration. Hand plant red pine on ridges in openings created by logging.																																				
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22	4122 - Oak, Pine	Poletimber Well	4.8	73	51-80	N/A	Critical Dunes Act, unlikely be able to do any management on this stand do to access.																																				
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24	42220 - Natural Jack Pine	Sapling Well	7.7	36	Immature	N/A	Critical Dunes Act. A few residual scattered red and white pine, and oak.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	42210 - Natural Red Pine	Sawtimber Medium	16.1	88	81-110	N/A	Cut in 1985
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log	14	88	White Pine	
Jack Pine		2	Pole	8		Jack Pine	
White Pine		3	Log	14			
						Density	Avg. Height
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
26	42220 - Natural Jack Pine	Sapling Well	6.9	36	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	3	36		
27	42210 - Natural Red Pine	Sawtimber Well	13.7	91	111-140	N/A	Selection harvest in apx 1985.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Log	14	91	White Spruce	
						Red Maple	
						Balsam Fir	
						Red Pine	
						Density	Avg. Height
						Medium	Variable
						Low	Variable
						Medium	Variable
						Medium	Variable
							Size
							Sapling
							Sapling
							Sapling
							Sapling
28	429 - Mixed Upland Conifers	Poletimber Well	19.3	58	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole	8		White Spruce	
Black Spruce		40	Log/Pole	10	58	Pin Cherry	
Quaking Aspen		15	Pole	8		Balsam Fir	
Red Pine		30	XLog/Log	18			
						Density	Avg. Height
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						Medium	5 - 10 feet
						Medium	5 - 10 feet
							Size
							Sapling
							Sapling
							Sapling
29	42210 - Natural Red Pine	Sawtimber Well	35.3	93	81-110	N/A	Cut in 2014
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	XLog/Log	18		Balsam Fir	
Red Pine		80	XLog/Log	18	93	White Pine	
						Red Pine	
						Red Maple	
						Density	Avg. Height
						Medium	Variable
						Medium	Variable
						Low	Variable
						Medium	Variable
							Size
							Sapling
							Sapling
							Sapling
							Sapling
30	42220 - Natural Jack Pine	Poletimber Well	14.4	46	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		100	Pole/Sapling	6	46	Jack Pine	
						Density	Avg. Height
						Medium	Variable
							Size
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
31	4132 - Aspen, Jack Pine	Sapling Medium	9.9	16	Immature	N/A	OPIC - FMD: Harvested in 2004. Residual red and white pine less than 10 BA. FTP #C41-1047 (JP regeneration). [6/5/07 jb] Stand was planted with inmates. [6/3/08 jb] Replant in 2009. (4/28/09 AP) On list to plant 5,000 jack pine in U3 and southern portion of U4 (PB and J sale). [5/26/11 JB] 2011 regen check 175 total saplings at about 1.9 ft. tall. There is a lot of 4-10' aspen competition and a few openings with no jp regen. Could replant, but aspen would need to be addressed. Ftp closed aspen is part of acceptable regeneration		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		25	Sapling	1					
Quaking Aspen		75	Sapling	2	16				
32	42200 - Natural White Pine	Sawtimber Poor	13.5	83	1-50	N/A	Harvested in 2004.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		30	XLog/Log	18		Sugar Maple	Medium	10 - 20 feet	Sapling
White Pine		70	XLog/Log	18	83	Quaking Aspen	High	10 - 20 feet	Sapling
33	4139 - Aspen, Mixed Deciduous	Poletimber Medium	21.1	48	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	8		Sugar Maple	Low	< 5 feet	Sapling
Quaking Aspen		50	Pole	8	48	Balsam Fir	Medium	Variable	Sapling
Sugar Maple		30	Pole	8		Pin Cherry	Medium	Variable	Sapling
Black Cherry		6	Pole	8					
White Pine		2	XLog/Log	18					
Red Pine		2	XLog/Log	18					
34	42210 - Natural Red Pine	Sawtimber Medium	6.4	90	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	XLog/Log	18	90	Quaking Aspen	Medium	Variable	Sapling
Quaking Aspen		5	Pole	8		Red Maple	Medium	Variable	Sapling
Red Maple		5	Pole	8		Pin Cherry	Medium	Variable	Sapling
35	4110 - Sugar Maple Association	Sapling Well	18.9	36	Immature	N/A	The east part of the stand was burned in a wildfire in 2003.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		15	Sapling	3		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir		5	Pole	6		Sugar Maple	Low	< 5 feet	Sapling
Sugar Maple		80	Sapling	3	36				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
36	42210 - Natural Red Pine	Sawtimber Well	29.5	88	81-110	N/A	Stand is going to convert to mixed hardwood with current harvesting practices.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		80	XLog/Log	18	88	Sugar Maple		Low	Variable	Sapling
White Pine		20	XLog/Log	18		White Pine		Medium	Variable	Sapling
						White Spruce		Medium	Variable	Sapling
						Red Maple		Medium	Variable	Sapling
						Balsam Fir		Medium	Variable	Sapling
37	42220 - Natural Jack Pine	Poletimber Well	5.2	55	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine		5	Log/Pole	14		Red Maple	Low	Variable	Sapling	
Red Pine		5	Log/Pole	12		White Pine	Low	Variable	Sapling	
Jack Pine		90	Pole	8	55					
38	42210 - Natural Red Pine	Sawtimber Medium	15.2	88	51-80	N/A	Harvested in apx 2004,			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine		95	Log	14	88	Red Oak	Low	Variable	Sapling	
White Pine		5	Log	14		Striped Maple	Low	Variable	Sapling	
						Red Maple	Medium	Variable	Sapling	
39	4119 - Mixed Northern Hardwoods	Sawtimber Well	25.1	72	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
American Elm		25	Log/Pole	10		Sugar Maple	Medium	Variable	Sapling	
Sugar Maple		75	Log/Pole	12	72	American Elm	Low	Variable	Sapling	
40	42320 - Upland Spruce	Poletimber Poor	2.6	64	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Spruce		100	Log/Pole	12	64	White Spruce	Low	Variable	Sapling	
						Sugar Maple	Low	Variable	Sapling	
41	4110 - Sugar Maple Association	Sawtimber Well	29.4	84	111-140	N/A	The southwest portion of the stand was burned in a wildfire in 2003.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Sugar Maple		100	Log	12	84	Sugar Maple	Medium	5 - 10 feet	Sapling	
42	4116 - Mixed N. Hardwood - Aspen	Sapling Well	16.6	27	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Paper Birch		10	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling	
Sugar Maple		60	Sapling	2	27	Sugar Maple	Low	< 5 feet	Sapling	
Quaking Aspen		20	Sapling	3						
Black Cherry		10	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4130 - Aspen	Sapling Medium	43.0	33	1-50	N/A	OPIC: Scattered openings and larger trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
American Elm		17	Pole	8		Sugar Maple	
Quaking Aspen		73	Sapling/Pole	3	33	Pin Cherry	
Sugar Maple		10	Pole	6			
44	429 - Mixed Upland Conifers	Sawtimber Well	9.3	53	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole	10		White Pine	
Balsam Fir		35	Pole	8	53	Balsam Fir	
Paper Birch		10	Pole	8		Red Maple	
Red Pine		10	Log/Pole	12			
White Pine		25	Log/Pole	12			
45	42210 - Natural Red Pine	Poletimber Medium	30.7	70	51-80	N/A	Critical Dunes Act. Harvested in 1998. Scattered residual red and white pine, with retention areas on steep slopes. Variable BA. Regeneration includes white pine, red pine, jack pine, oak and aspen. White pine and oak were planted in openings in 2004.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		25	Pole	8		Jack Pine	
Red Pine		75	Pole	8	70	White Pine	
46	42220 - Natural Jack Pine	Sapling Well	9.9	45	1-50	N/A	Critical Dunes Act.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Sapling	3	45		
47	42290 - Natural Mixed Pine	Sawtimber Well	95.3	81	81-110	N/A	Critical dunes act. Steep ridges and valleys. .
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		15	Pole	8		White Pine	
Paper Birch		5	Pole	8		Jack Pine	
Red Pine		45	Log	14	81	Red Maple	
White Pine		15	Log/Pole	10		Red Oak	
Jack Pine		20	Log	10			
48	4122 - Oak, Pine	Poletimber Well	2.7	73	51-80	N/A	Critical Dunes Act, unlikely be able to do any management on this stand do to access.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		70	Pole	8	73	Jack Pine	
Red Pine		20	Log/Pole	10		Red Oak	
Jack Pine		10	Log	10		White Pine	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	4122 - Oak, Pine	Poletimber Well	3.9	73	51-80	N/A	Critical Dunes Act, unlikely be able to do any management on this stand do to access.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		70	Pole	8	73	White Pine	Low	< 5 feet	Sapling
Jack Pine		10	Pole	8		Jack Pine	Low	< 5 feet	Sapling
Red Pine		20	Log/Pole	10		Red Oak	Low	< 5 feet	Sapling
51	4130 - Aspen	Sapling Medium	2.0	16	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		100	Sapling	2	16				
52	42210 - Natural Red Pine	Sawtimber Well	7.4	91	141-170	N/A	Critical Dunes Act, Critical Coastal Habitat (piping plover), and potential old growth along the lakeshore. Dispersed camping site on cliff edge by lake. Large red and white pine with jack pine, paper birch, red maple, and oak. Steep ridges.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		80	Log	14	91	White Pine	Low	< 5 feet	Sapling
Jack Pine		10	Log/Pole	10					
White Pine		10	Log	14					
53	42210 - Natural Red Pine	Sawtimber Well	11.0	80	81-110	N/A	Critical Dunes Act. Mix of red and white pine - BA variable due to past harvesting.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Log	14		Jack Pine	Low	Variable	Sapling
Jack Pine		10	Pole	8		White Pine	Low	Variable	Sapling
Red Pine		70	Log	12	80				
54	42210 - Natural Red Pine	Poletimber Well	11.4	78	141-170	N/A	Critical Dunes Act. Very steep ridges. Red pine with white pine, jack pine, oak.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		25	Pole	8		Red Oak	Low	< 5 feet	Sapling
Red Pine		65	Pole	8	78	White Pine	Low	< 5 feet	Sapling
Jack Pine		10	Pole	8					
55	4110 - Sugar Maple Association	Sawtimber Well	11.6	77	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm		5	Pole	8		Sugar Maple	Medium	Variable	Sapling
Sugar Maple		95	Log	14	77				
56	42340 - Upland Spruce/Fir	Sawtimber Well	2.7	58	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	8		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen		10	Log/Pole	10		American Elm	Medium	Variable	Sapling
American Elm		30	Pole	8					
White Spruce		50	Log/Pole	12	58				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	710 - Sand, Soil	Nonstocked	7.6		Unspecified	No	OPIC - FMD: HCVA-Critical Coastal Habitat: piping plover. Beach along Lake Superior.