



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32249

Entry Year 2023

Acreage: 1,154

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2021-08-03

Stand Examiner: Rick Hill

Legal Description:

T46N R27W Sec. 23, Sec. 26, Sec. 35

Identified Planning Goals:

Vegetative management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen, lowland conifer, and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include increasing diversity and long-term oak sustainability through under planting white and red pine; and to maintain or increase wildlife corridors especially along riparian areas. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and oak regeneration will be priority.

Soil and topography:

The majority of soils within the compartment belong to the Rubicon-Sayner (RS) Association, with only the extreme southern portion belonging in the Rubicon-Keweenaw (RK) Associations. Both of these soil groups are very deep, well to excessively drained, sand to loamy sands, with some cobbly loamy sands. Greenwood, Deford, and Carbondale soils are minor components that reside in the depressions and drainages. Topography ranges from nearly level and gently undulating to very hilly with steep (>50%) slopes. This compartment resides on the eastern edge of a larger sandy outwash plain and the southern edge of rugged rock outcrop.

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

Ownership in this area is a mix of state to the south and private to the north and east. The majority of the land in private ownership is held by the Empire Iron Mining Partners and the Tilden Mining Company. Smaller private parcels are disbursed throughout the landscape as well. Land use on the industrial land is for iron mining operations with some timber management taking place as well. The small private parcels are utilized primarily for recreation. State land use is recreation, wildlife and timber management.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

A portion of the abandoned ELF ROW is within this compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The northern region of this compartment contains the Middle Branch of the Escanaba River. The Middle Branch of the Escanaba River is designated a Type 1 trout stream greater than 50' width and has a predicted mean July temperature of 66.4 °F (cool stream). 100' plus 5' per 1% increase in slope; buffers are recommended to protect the Middle Branch of the Escanaba River in accordance with Best Management Practices.

This compartment also contains Flopper Creek and an unnamed stream which serves as tributary to the Middle Branch of the Escanaba River. Flopper Creek is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 61.3 °F (cold stream). The unnamed stream that serves as tributary to the Middle Branch of the Escanaba River is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 57.6 °F (cold stream). 300' buffers are recommended for Flopper Creek and the unnamed tributary in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 249 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. There is not a current economic use for these rocks. Gravel pits are not located in the area, but potential appears to be good in the southern portion. Abandoned iron mines are located seven miles to the north. Sections 34 and 35 were previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Hawkins Pond and Hemmings Lake Roads provide primary access to this compartment. Woods roads provide access off of those to the interior of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no recreation facilities in this compartment. there is little potential for recreation development. This area will continue to be used for dispersed recreation.

Fire Protection:

is area is approximately two miles east of the 581 Zone Dispatch area and is within the Gwinn Field Office protection area. Good access and water sources exist throughout this compartment and surrounding landscape for wildfire response.

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**

Report 1 – Total Acres by Cover Type and Age Class

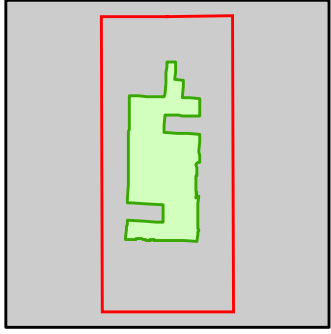


Age Class

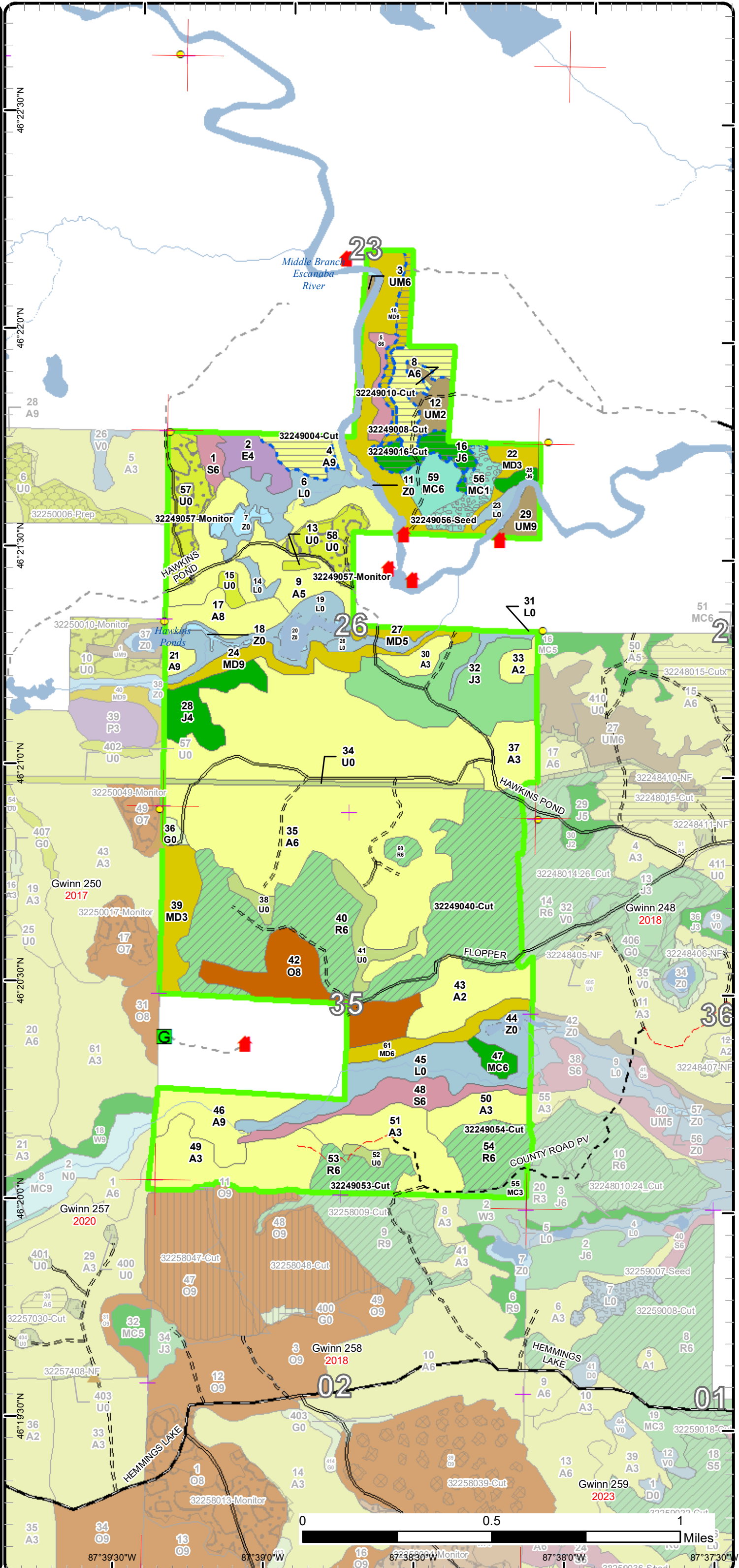
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	25	77	30	302	16	0	0	0	16	26	0	0	0	0	0	0	0	492
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	67	0	3	12	0	0	0	0	0	0	0	0	0	0	0	82
Low-Density Trees	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Deciduous	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Lowland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	18	6	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	20	0	6	0	0	0	73	0	0	0	0	0	0	0	0	98
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Oak	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	36
Planted Mixed Pines	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	180
Upland Conifers	0	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	0	8	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	15
Upland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	178	36	85	121	313	25	192	0	5	161	38	0	0	0	0	0	0	0	1152

Cover Type & Treatments Map

Compartment: 249
 T46N, R27W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
 Acres: 1153.8 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review



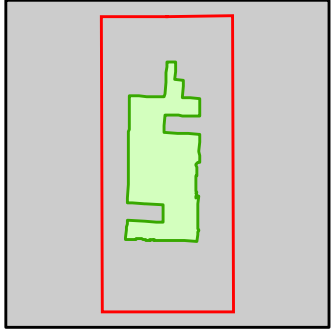
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- ▲ Berms
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seeding (tree species)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



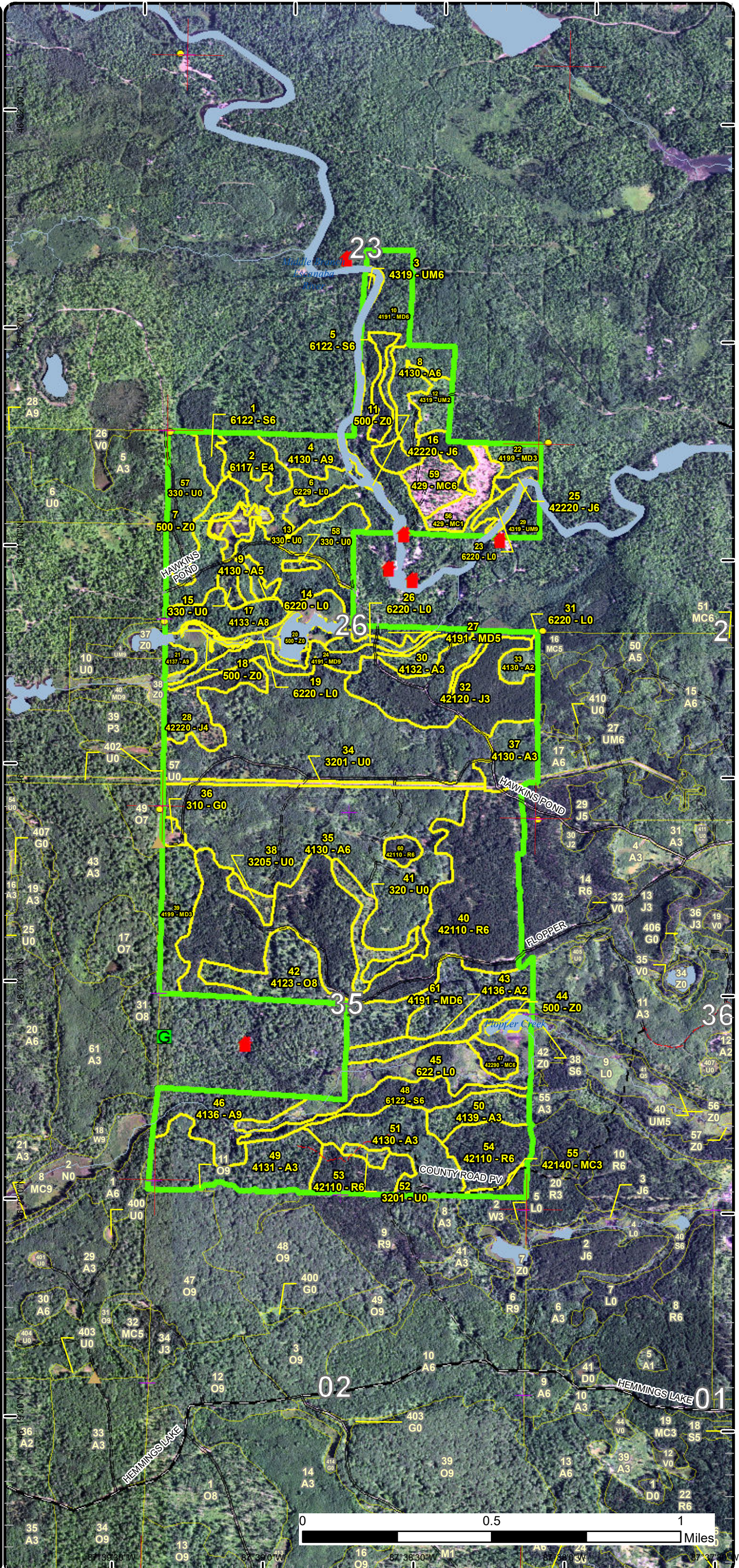
87°39'30"W 87°39'0"W 87°38'30"W 87°38'0"W 87°37'30"W

Stand Boundary Map

Compartment: 249
 T46N, R27W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
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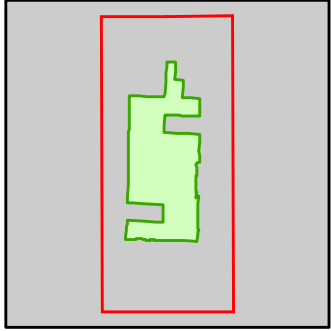


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- Federal / State - Dirt / Gravel Road
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- 📍 Berms
- 🚪 Gate
- 🟩 Compartment Boundary
- 🟨 Stand Boundaries
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- 330 - Low Density Trees
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- 622 - Lowland Shrub

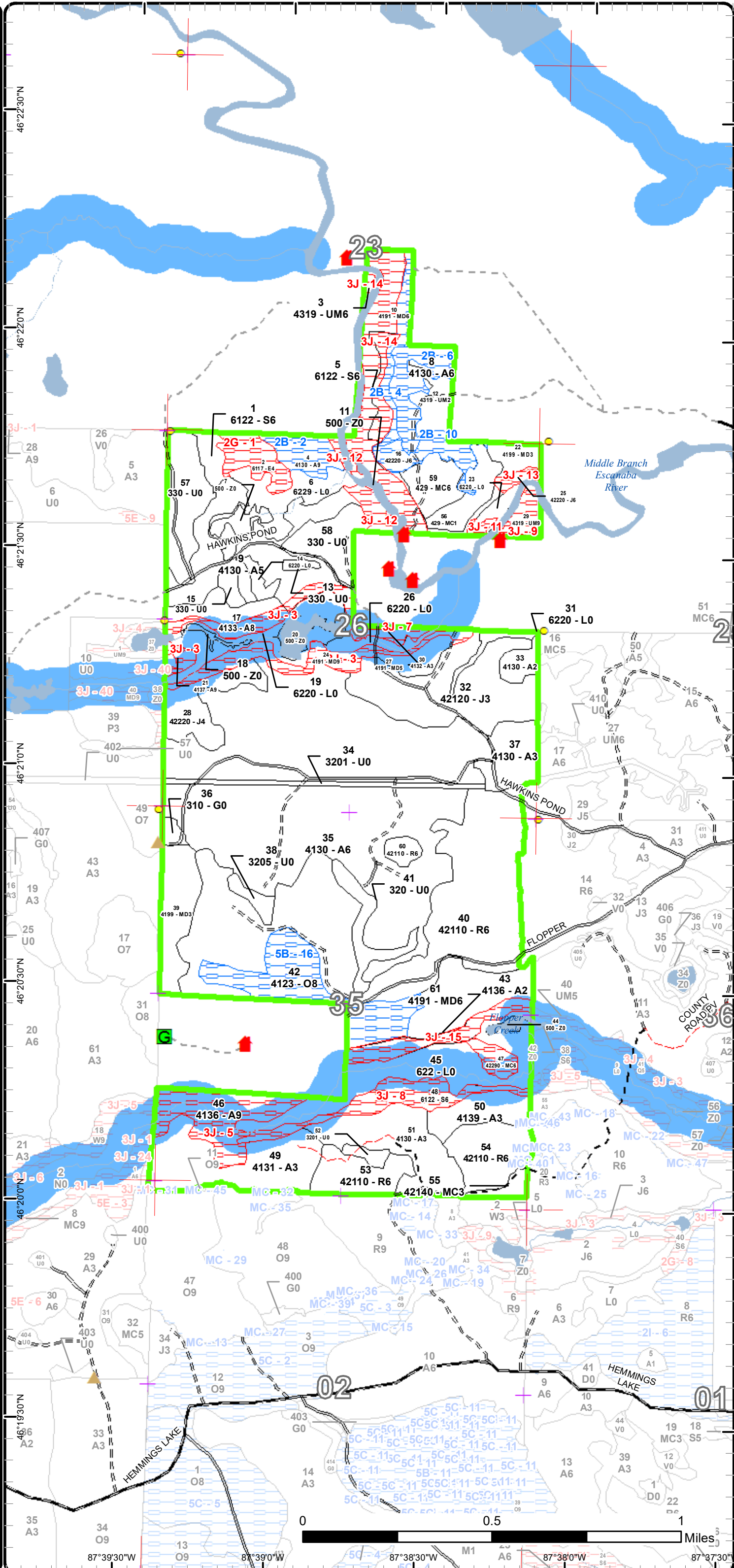


Special Conservation Areas

Compartment: 249
 T46N, R27W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
 Acres: 1153.8 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- - - Intermittent Stream
- - - Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- ▲ Berms
- G Gate
- G Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 249
Total Compartment Acres: 1,154

Commercial Harvest - 180
Harvests with Site Condition - 45
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
Aspen	25	0	0	0	0	0	0	0	0	25
Jack Pine	11	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	180	0	0	0	180
Total	45	0	0	0	0	180	0	0	0	225

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	225	0	0	11	0	0	34	0	0	270
Next Step	0	0	34	11	0	11	56	0	0	112
Total	225	0	34	23	0	11	90	0	0	382



Stand Name	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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Proposed Treatments:

4	32249004-Cut	10.2	4130 - Aspen	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut leaving only oak, white pine, and red pine. Retention will be the river buffer to the east.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, mixed hardwood, mixed conifer.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Unknown Access											
<u>Proposed Start Date:</u> 10/1 /2022											
8	32249008-Cut	15.1	4130 - Aspen	Poletimber Well	49	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees using a 2 inch spec leaving only oak, red and white pine. Leave retention along older harvest to the east.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Unknown Access											
<u>Proposed Start Date:</u> 10/1 /2022											
10	32249010-Cut	8.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<u>Prescription</u> Cut all trees leaving only red pine, white pine, and oak. Retention will be the bulk of the stand acting as a river buffer											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Maple, birch, aspen, mixed conifer, aspen.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Unknown Access											
<u>Proposed Start Date:</u> 10/1 /2022											
16	32249016-Cut	11.3	42220 - Natural Jack Pine	Poletimber Well	53	111-140	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> Clearcut stand using a 2 inch spec leaving only red pine, oak, and white pine. Leave retention along older harvest to the east.											
<u>Specs:</u>											
<u>Next Step</u> Seeding, Machine Seed; Monitoring, Direct Seeding; Pesticide, Skidder - Site Prep											
<u>Treatments:</u>											
<u>Acceptable</u> Jack Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u> Unknown Access											
<u>Proposed Start Date:</u> 10/1 /2022											

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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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40 32249040-Cut	140.2	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand to target BA of 100 SF. density varies some in lower BA areas Mark Suppressed trees, and Defective trees while trying to stay close to 100SF. in areas with better stocking use normal thinning rules and improve spacing, operability, and improve overall stand quality.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53 32249053-Cut	15.5	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand to target BA of 100 SF. Use normal thinning rules and improve spacing, operability, and improve overall stand quality.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

54 32249054-Cut	20.3	42110 - Planted Red Pine	Poletimber Well	59	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand to target BA of 100 SF. Use normal thinning rules and improve spacing, operability, and improve overall stand quality.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

56 32249056-Seed	11.2	429 - Mixed Upland Conifers	Sapling Poor	4	51-80	Seeding	Machine Seed	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Trench and seed area that failed to regenerate on its own.

Specs:
Next Step Monitoring, Direct Seeding
Treatments:

Acceptable Jack Pine
Regen:

Other Start date is attempting to line up with stand 16
Comment:

Site Condition

Proposed Start Date: 10/1 /2026

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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
60 32249060-Cut	3.7	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thin stand to about 100 SF. Focus removal on defective trees and improving spacing <u>Specs:</u> <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 /2022										

Approved Treatments:

57 32249057-Monitor	33.5	330 - Low-Density Trees	Nonstocked	2020	Unspecified	Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> 3 year regen check <u>Specs:</u> <u>Next Step</u> ; Planting, Replant <u>Treatments:</u> <u>Acceptable</u> Red Pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020										

Total Treatment 269.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 249
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2B	5B	2G	3J
492	420	25	47	Aspen	25			47
2	2	0	0	Herbaceous Openland				
81	67	11	3	Jack Pine	11			3
41	41	0	0	Low-Density Trees				0
11	0	0	11	Lowland Deciduous			11	
91	91	0	0	Lowland Shrub				0
30	5	0	24	Lowland Spruce/Fir				24
98	28	8	62	Mixed Upland Deciduous	8			62
5	0	0	5	Natural Mixed Pines				5
36	0	35	0	Oak		35		0
4	4	0	0	Planted Mixed Pines				
180	180	0	0	Red Pine				
22	22	0	0	Upland Conifers				0
16	8	0	8	Upland Mixed Forest				8
24	24	0	0	Upland Shrub				
21	21	0	0	Water				0
1,154	914	80	160	Total Forested Acres	45	35	11	148
	79%	7%	14%	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	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 249
Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 249
Year of Entry: 2023

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 249
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15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	35	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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
1	6122 - Black Spruce	Poletimber Well	5.3	70	81-110	N/A																																																																								
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2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	11.2	89	1-50	N/A	Riparian or wildlife corridor is more fitting as deer are using the upland knobs as connectors to move through this lowland area. Stand is predominantly lowland with scattered rock knobs covered with a thin layer of soil. The rock knobs are supporting upland trees, which are mature. The lowland area is primarily tag alder, tamarack with scattered pockets of balm, spruce-fir, red maple, and black ash. This stand is very wet.																																																																							
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4	4130 - Aspen	Sawtimber Well	12.2	89	81-110	N/A	The stand borders the Middle Branch Escanaba River (east) and is surrounded by lowland brush on the south and west. Private borders to the north. This is a decadent stand of aspen and birch with red and white pine. The understory is heavy to white pine seedlings, saplings, and poles.																																																																							
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5	6122 - Black Spruce	Poletimber Well	6.3	96	51-80	N/A	This stand is a mix of black spruce and jack pine. The jack pine occurs where the elevation changes slightly and where it transitions to the upland. It is located in a depression between a rock outcropping to the west and shallow soil over granite to the east. Small (1/10-1/5 acre) patches of bare rock are present within this stand. It is very wet. Operability is very limited.																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
6	6229 - Mixed lowland shrub	Nonstocked	19.5			No	Scattered black spruce, tamarack and white pine. Heavy tag alder.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace		Log	
								Tamarack	Trace		Pole	
								Black Spruce	Trace		Pole	
7	500 - Water	Nonstocked	4.1			No	Beaver ponds					
8	4130 - Aspen	Poletimber Well	15.8	49	1-50	N/A	Stand was regenerated noncommercially in 1972 by KG blading by the Wildlife Division, FTP W3-328. At the time of treatment, it was noted the stand was scrubby aspen, birch, and red maple with scattered jack pine (which were left standing).					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	96	Pole	6	49
								Balsam Fir	2	Pole	6	
								Jack Pine	2	Pole	7	
Sub-Canopy Species	Density	Avg. Height	Size									
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub									
9	4130 - Aspen	Poletimber Medium	49.6	39	1-50	N/A	Stand was harvested in 1982 by Escanaba Paper Co., permit #1-80A. Oak had been cut in the eastern part of the stand and some in the north. There is a fair amount of dead aspen in this stand. "Hawkins Swan Flopper" sale #32-114-13-01 (unit 1 and 2) Cut in the fall of 2016 by Holli FP Under FTP 32-889 for red pine regeneration.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	2	
								Red Oak	2	Pole	7	
								Quaking Aspen	49	Pole/Sapling	5	39
								Bigtooth Aspen	42	Pole/Sapling	5	
								White Pine	2	Pole/Sapling	5	
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Low	< 5 feet	Sapling									
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub									
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	39.7	89	51-80	N/A	The north half is very rugged, large boulders and rock outcroppings are present throughout this portion of the stand. Timber quality for the aspen and hardwood is poor. The pine within this stand is doing quite well. The understory is primarily white pine, with some spruce and fir. If the stand is not treated it will convert to white pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	30	Pole	7	
								Paper Birch	10	Pole/Log	8	
								Quaking Aspen	35	Pole/Log	8	89
								Balsam Fir	5	Pole	6	
								White Spruce	5	Pole	8	
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								Red Pine	5	Log/XLog	14	
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11	500 - Water	Nonstocked	8.3			No	Middle Branch Escanaba River					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
12	4319 - Mixed Upland Forest	Sapling Medium	8.4	12	Immature	N/A	Stand was harvested in Oct/Nov 2004 by Holli Forest Products, Inc., permit #117-03-01. Any oak, cherry, birch, red and white pine as well as any spruce and fir were left. All aspen, jack pine, and maple were cut. It was subsequently trenched and direct seeded to jack pine (FTP C31-467) in 2006 and again in 2009 due to a regeneration failure.																																													
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13	330 - Low-Density Trees	Nonstocked	1.5			No																																														
14	6220 - Alder/willow	Nonstocked	3.1			No																																														
15	330 - Low-Density Trees	Nonstocked	2.9			No																																														
16	42220 - Natural Jack Pine	Poletimber Well	11.6	53	111-140	N/A	Stand is a result of a harvest under permit #12-66A, completed around 1967. Jack pine are 6-8" dbh, 4-5 sticks. There are a few scattered white pine, white birch, and some scattered aspen around the southern edge of the stand as it transitions into the mixed stand to the south.																																													
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17	4133 - Aspen, Mixed Pine	Sawtimber Medium	15.7	39	1-50	N/A	The majority of this stand was harvested in 1982, permit #1-80A, all aspen was removed and the oak and pine were left. The stand is now predominantly oak and white pine. Aspen and red maple saplings and poles are present as are white pine saplings and poles.																																													
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18	500 - Water	Nonstocked	1.4			No																																														
19	6220 - Alder/willow	Nonstocked	19.4		Unspecified	No																																														
20	500 - Water	Nonstocked	5.7			No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
21	4137 - Aspen, Birch	Sawtimber Well	3.5	89		N/A	Stand is listed as SCA=>Potential Old Growth, scenic values, water quality BMP's. Stand should remain as SCA for riparian corridor and water quality protection. Stand is a decadent stand of aspen and birch that is moving toward red maple and pine. This stand is small within the compartment boundary but is naturally part of a bigger stand to the west and pre-inventory stand 15 to the north.																																																									
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22	4199 - Other Mixed Upland Deciduous	Sapling Well	6.0	49	51-80	N/A	Stand was harvested in 2004, T-Sale #117-03-01, by Holli Forest Products. All merchantable jack pine, aspen and maple were harvested. There is a heavy residual of red maple and white birch, especially on the west end of the stand. Scattered pockets of aspen, birch, and maple exist elsewhere in the stand as a result of a harvest in 1972. Stand has been trenched and seeded via FTP #31-467 in 2006 and again in 2010 as a result of a failure. No herbicide was used.																																																									
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23	6220 - Alder/willow	Nonstocked	3.4			No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Full</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Full		Tall Shrub																																																	
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24	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.8	89	51-80	N/A	Stand is a riparian corridor as it is a mature stand of jack pine, birch, aspen, red and white pine, that is along the Hawkins Pond water course.																																																									
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25	42220 - Natural Jack Pine	Poletimber Well	2.6	49	51-80	N/A	Part of this stand may have been cut with the surrounding area in 1972. It is along the Middle Branch Escanaba River and should remain as riparian corridor. The stand is providing a conifer component along the river and is also providing for bank stabilization on the bend of the river.																																																									
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26	6220 - Alder/willow	Nonstocked	5.1			No																																																										
27	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.2	89	51-80	N/A	This is a small stand of jack pine, white birch and red maple located along a tributary to the Middle Branch Escanaba River. Stand should be left as SCA=>Riparian corridor as it acts as a buffer for the stream and a wildlife corridor as well.																																																									
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28	42220 - Natural Jack Pine	Poletimber Poor	17.5	27	Immature	N/A																																																																																		
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29	4319 - Mixed Upland Forest	Sawtimber Well	6.5	89	51-80	N/A																																																																																		
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30	4132 - Aspen, Jack Pine	Sapling Well	6.7	18	Immature	N/A	Herbicide, trenched and seeded to jack pine. Seeding took place in 2006. Stand was cut in Feb/Mar 2004 by Joe LaFleur Forest Products, LLC, permit #118-03-01 (Hawkins Pond Road Sale). FTP #31-466.																																																																																	
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31	6220 - Alder/willow	Nonstocked	3.5			No	Drainage																																																																																	
32	42120 - Planted Jack Pine	Sapling Well	49.2	24		N/A	Stand had been harvested in 1994 by DeShambo Forest Products, permit #9-93 (Hawkins Pond Sale). Site was herbicide, trenched and hand planted in May 1996 under FTP C31-332. Scattered red and white pine are present within the stand, more so on the west end.																																																																																	
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33	4130 - Aspen	Sapling Medium	5.3	17	Immature	N/A	Stand was harvested in Feb/March 2004 by Joe LaFleur Forest Products, LLC, #118-03-01 (Hawkins Pond Road Sale). Stand is regenerating to primarily aspen with some red maple and jack pine as well.																																																																																	
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34	3201 - Sweet Fern	Nonstocked	7.0			No																																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
35	4130 - Aspen	Poletimber Well	236.3	34	1-50	N/A	Stand was harvested between 1983-86 by Escanaba Paper Co., permit #23-82. Stand is a mix of quaking and big tooth aspen, red maple with jack pine (pockets) scattered throughout. Some red oak log size trees are scattered throughout as well. Stand is just now moving from sapling to pole category. Majority of stems are still within the sapling size class.																																											
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36	310 - Herbaceous Openland	Nonstocked	2.4			No																																												
37	4130 - Aspen	Sapling Well	14.8	16		N/A	Stand was harvested in Feb/Mar 2004 by Joe LaFleur Forest Products, LLC., permit #118-03-01. Oak, cherry, white pine, spruce, fir and most red pine were left. Stand is regenerating well. Scattered pockets of red pine poles and logs. Some jack and white pine seedlings scattered in stand.																																											
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38	3205 - Mixed Upland Shrub	Nonstocked	3.8			No																																												
39	4199 - Other Mixed Upland Deciduous	Sapling Well	19.5	27	1-50	N/A	Stand cut in 1994 by Deshambo Forest Products, permit #9-93 (Hawkins Pond Sale). Oak scattered throughout, log size trees. Some basal area is 80 ft/ac. Stand is predominantly red maple with oak logs and poles in the overstory. Very little aspen is present in the stand. Some areas are void of any trees.																																											
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40	42110 - Planted Red Pine	Poletimber Well	140.2	59	111-140	N/A	Stand was machine planted in 1962. It was thinned in 2007, TS#119-03-01. Some areas of the stand could be treated as the basal area is at or above 140 sq. ft/ac. Areas of the stand are only at 20-40 sq. ft/ac where heavy jack pine and aspen have been removed. Oak is present within the stand in concentrated areas. Scattered white birch are present as well.																																											
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41	320 - Upland Shrub	Nonstocked	10.6			No																																												
42	4123 - Red Oak	Sawtimber Medium	35.7	82	51-80	N/A	Stand was harvested in the fall of 2006, Maino's Road Plantation, TS#120-03-01. All oak was left. Site was then scarified via anchor chains in the summer of 2010. Note: southeast part of stand was not scarified but the covertime and timber management will be the same.																																											
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43	4136 - Aspen, Mixed Conifer	Sapling Medium	25.0	4	Immature	N/A	Cut by Holli Forest Products in the fall of 2017 under 32-114-13-01 Hawkins Swan Flopper.																																																																								
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44	500 - Water	Nonstocked	1.7			No																																																																									
45	622 - Lowland Shrub	Nonstocked	36.6			No																																																																									
46	4136 - Aspen, Mixed Conifer	Sawtimber Well	25.9	91	111-140	N/A	Flopper's Creek flows through the middle of this stand. The stand is the hill sides on both sides of the creek. Operability here is quite difficult due to the slope and large rocks located throughout the stand. The bottom of the slopes are full of springs and seeps.																																																																								
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47	42290 - Natural Mixed Pine	Poletimber Well	5.0	90	51-80	N/A	The stand is a mixed pine island surrounded by Flopper Creek and tag alder.																																																																								
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48	6122 - Black Spruce	Poletimber Well	18.0	81	81-110	N/A	Very narrow stand that borders Flopper's Creek. Retain as old forest habitat and riparian corridor along Flopper's Creek.																																																																								
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49	4131 - Aspen, Oak	Sapling Well	37.0	17	1-50	N/A	Stand harvested in 2004 by K&K Logging, TS #121-03-01. Previous inventory notes state that 38 sq. ft/ac of oak were tallied from the cruise data. Points for this inventory cycle fell into heavier stocking areas. This is an aspen sapling stand with an oak log/pole overstory with some scattered red pine.																																										
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50	4139 - Aspen, Mixed Deciduous	Sapling Well	13.5	14		N/A	Stand harvested in 2006 by K&K Logging, TS#121-03-01. All oak, cherry, birch, white pine, and balsam were left as well as 1 and 2 stick spruce and those unmarked red pine. Stand is regenerating to red maple and aspen.																																										
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51	4130 - Aspen	Sapling Well	30.3	25		N/A	Stand harvested in 1994-95 by DeShambo Forest Products, permit #6-93, "Flopper Creek Block". All oak, white pine, and spruce were left as well as red pine smaller than 12 inches stump diameter. Stand is now aspen with pockets of jack pine and scattered overstory white pine and oak.																																										
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52	3201 - Sweet Fern	Nonstocked	2.7			Managed Opening	Stand is filling in with red pine.																																										
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53	42110 - Planted Red Pine	Poletimber Well	15.5	59	111-140	N/A	Stand was thinned in 2006 by K&K Logging, permit #121-03-01 (Flopper Creek South Sale). Red pine was marked, all jack pine and aspen were cut. Any birch, cherry, oak, blasam fir as well as 1-2 stick spruce were left. These are all trace species now. None were picked up on the inventory cruise.																																										
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54	42110 - Planted Red Pine	Poletimber Well	20.3	59	111-140	N/A	Stand was thinned in 2006 by K&K Logging, permit #121-03-01 (Flopper Creek South Sale). Marked red pine were cut as well as aspen, maple, and jack pine. Any oak, birch, cherry, balsam, 1-2 stick spruce and white pine were left. A portion of it (south of the road) was also cut in 1991 with compartment 248 to the south (#25-88 "Four Compartment Sale"). The stand is currently In good shape. The red maple in the understory is from both stump and seed origin.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
55	42140 - Planted Mixed Pine	Sapling Well	3.9	27	81-110	N/A	Stand was harvested in 1991 by Jim Carey Logging, permit #25-88 (Four Compartment Sale). Following the harvest it was herbicided, trenched and contract hand planted to red pine under FTP C31-254. Jack pine and white pine volunteers are present throughout, heavier on the west end of the stand. There appears to be almost as much jack pine as there is red pine from looking at crown distribution. Note: FTP date is 1991, but there is no completion date on when it was actually planted.																																																				
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56	429 - Mixed Upland Conifers	Sapling Poor	11.2	4	51-80	N/A	Most of this stand has failed to regenerate following a harvest in 2017.																																																				
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57	330 - Low-Density Trees	Nonstocked	21.7	2020	Unspecified	4211 - Planted Red Pine	Stand was harvested in 1982 by Escanaba Paper Co., permit #1-80A. Oak had been cut in the eastern part of the stand and some in the north. "Hawkins Swan Flopper" sale #32-114-13-01. Cut in the fall of 2016 by Holli FP. Under FTP 32-889 for red pine regeneration. Stand was trenched in 2017 by DNR resources, Site planted in the spring of 2018. First year regen count showed approximately 9.7% mortality. Site is only 29% FTG 9-11-20: release spray completed.																																																				
58	330 - Low-Density Trees	Nonstocked	15.1	2020	Unspecified	4211 - Planted Red Pine	Stand was harvested in 1982 by Escanaba Paper Co., permit #1-80A. Oak had been cut in the eastern part of the stand and some in the north. There is a fair amount of dead aspen in this stand. "Hawkins Swan Flopper" sale #32-114-13-01 (unit 1 and 2) Cut in the fall of 2016 by Holli FP Under FTP 32-889 for red pine regeneration. Stand was trenched in 2017 by DNR resources, Site planted in the spring of 2018. First year regen count showed approximately 12.5% mortality. Site is only 23.3% FTG will need a release spray.																																																				
59	429 - Mixed Upland Conifers	Poletimber Well	11.2	30	51-80	N/A	Stand cut by Roy Nelson and son in about 2017.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
60	42110 - Planted Red Pine	Poletimber Well	3.7	59	111-140	N/A	Stand was machine planted in 1962. It was thinned in 2007, TS#119-03-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		2	Pole/Log	9		Red Maple	Low	< 5 feet	Sapling
Red Pine		98	Pole/Log	9	59	Quaking Aspen	Low	< 5 feet	Sapling

61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.0	85	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Paper Birch		15	Pole/Log	8					
Red Maple		30	Pole/Log	8	85				
White Spruce		10	Pole/Log	8					
Quaking Aspen		10	Log/Pole	10					
White Pine		25	Log/Pole	12	85				
Red Oak		10	Log/Pole	10					