



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32250

Entry Year: 2027

Acreage: 1,156

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Kyle Gould

Legal Description:

T46N-R27W. Sections 22,27, and 34.

Identified Planning Goals:

Promote quality forested stands by matching species to site.

Soil and topography:

Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog marshlands. Upland stands consist of only higher ground which is rolling to slightly hilly. A good logging chance exists throughout the compartment.

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

State ownership within this compartment is mostly contiguous, but does have a block of private ownership within the north half. Timber harvesting along with recreational activities such as hunting, fishing, mushroom & berry picking, and trapping make up the land use component within the compartment.

Unique Natural Features:

The Voelker Lake, East Voelker Lake, Flopper Creek, and other tributaries make up the natural features within this compartment. All of these water bodies feed into the Middle Branch of the Escanaba River.

Archeological, Historical, and Cultural Features:

No features were found within this compartment during this inventory cycle.

Special Management Designations or Considerations:

No special management designations or considerations within this compartment.

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Flopper Creek and unnamed streams that serve as tributaries to the Middle Branch Escanaba River. Flopper Creek and the unnamed streams are designated Type 1 trout streams less than 50-ft wide and have predicted mean July water temperatures that range from 57.9 to 61.3°F (cold streams). 300-ft buffers are recommended for Flopper Creek and the unnamed streams in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Suomi Till and Outwash 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 underplanting 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 Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Section 3, T45N R27W and sections 21-22, 27, & 34, T46N R27W, Marquette County No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for production of sand & gravel within the compartment on the uplands, but the compartment may be too far from populated areas (commercial markets) for any aggregate resources to have significant value beyond use for local road maintenance. No past metallic mineral mining has occurred in this area, and there has been no known ground-based exploration. Potential for metallic and/or critical minerals beneath the compartment is relatively unknown but

is considered low at this time. There is no current mineral leasing activity involving State-owned mineral rights in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The Hemmings Lake Road to the west and the Hawkins Pond Road to the east are the main access roads into this compartment. Various internal two tracks are all bermed within this compartment and are for foot traffic only.

Survey Needs:

Corners are needed for stand 2 and 42.

Recreational Facilities and Opportunities:

No recreational facilities exist. Recreation opportunities consist of hunting, fishing, mushroom & berry picking, and trapping.

Fire Protection:

This compartment is included in the Ishpeming Protection area. Areas of jack & red pine cover types with the encroachment of recreational seasonal dwellings are of concern. Mutual aide agreements with local volunteer fire departments also provide critical fire suppression response, especially in the area of structural fire protection and evacuations.

Additional Compartment Information:

The following reports from the Inventory are attached:

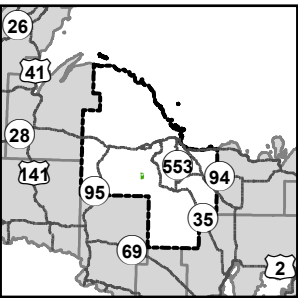
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

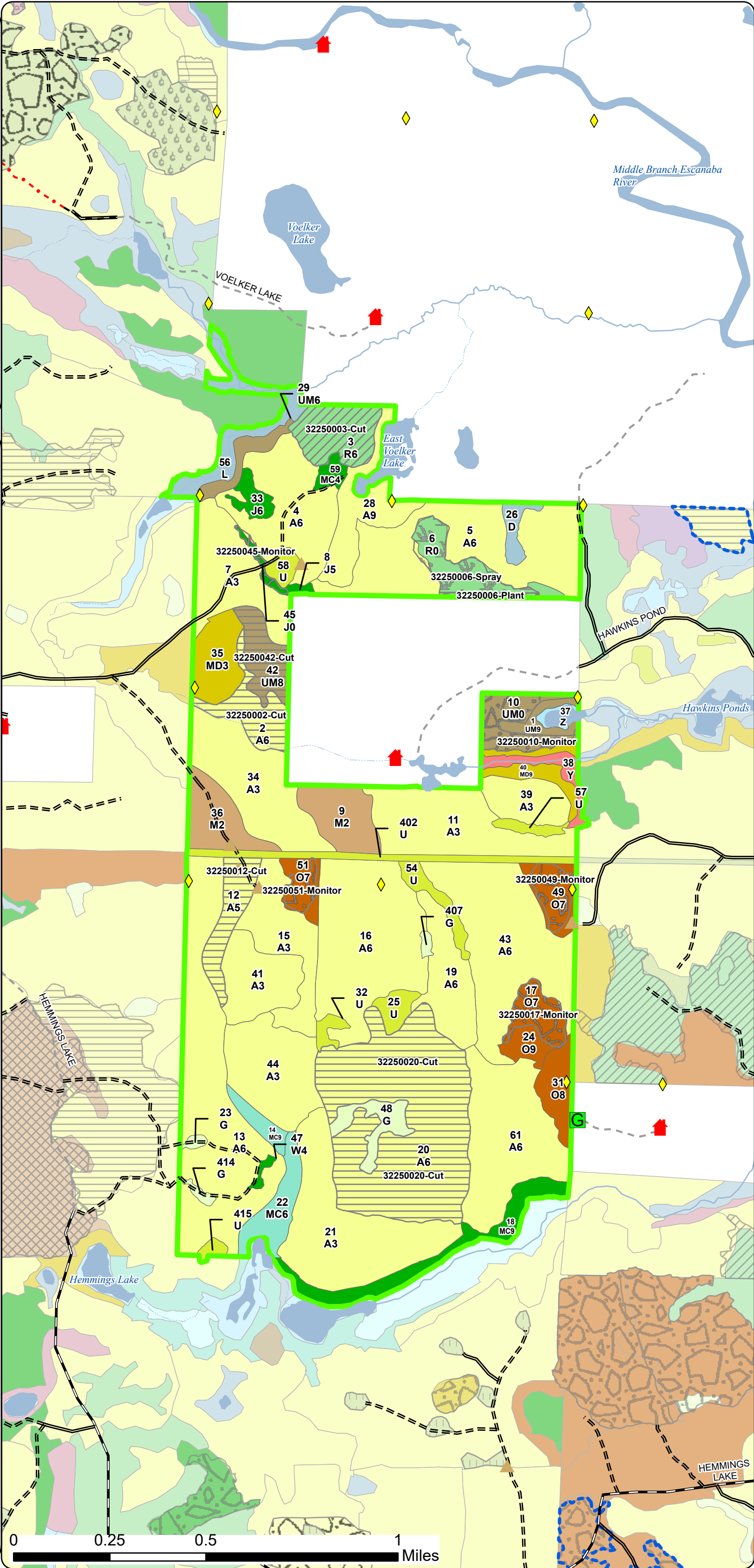
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

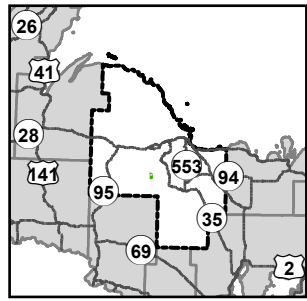
Compartment: 32250
T46N R27W Sections 22, 27 & 34
County: Marquette
Unit: Gwinn
Mgmt. Area: Suomi Till and Outwash Plain
YOE: 2027
Acres: 1,155.73 GIS Calculated
Examiner: Kyle Gould
Date Exported: 08/19/2025
Map Phase: Web Post



















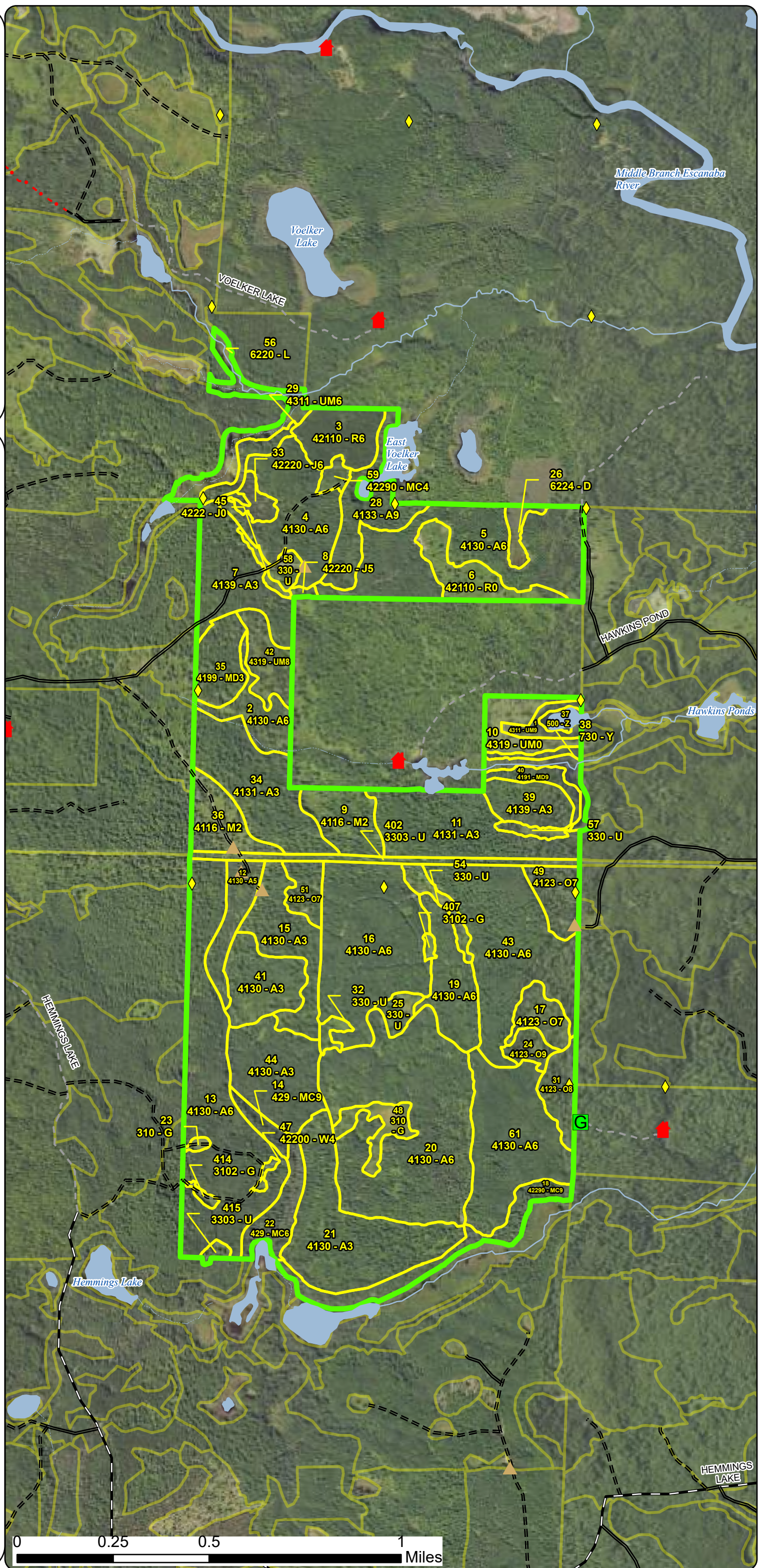
- Survey Grade Corners
- Cabin
- Berms
- Gate
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Thinning
- Planting (tree species)
- Pesticide
- Monitoring - Regeneration
- Clearcut
- Selection
- Thinning
- Seeding
- Prescribed Burn
- Openings Mgmt.
- Monitoring - Regeneration
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 730 - Mud Flats



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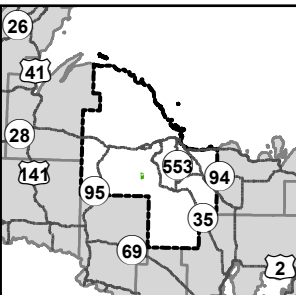


-  Survey Grade Corners
 -  Cabin
 -  Berms
 -  Gate
 -  DNR - Primary Forest Road
 -  DNR - Secondary Forest Road
 -  DNR - Forest Access Route
 -  Federal / State - Dirt / Gravel Road
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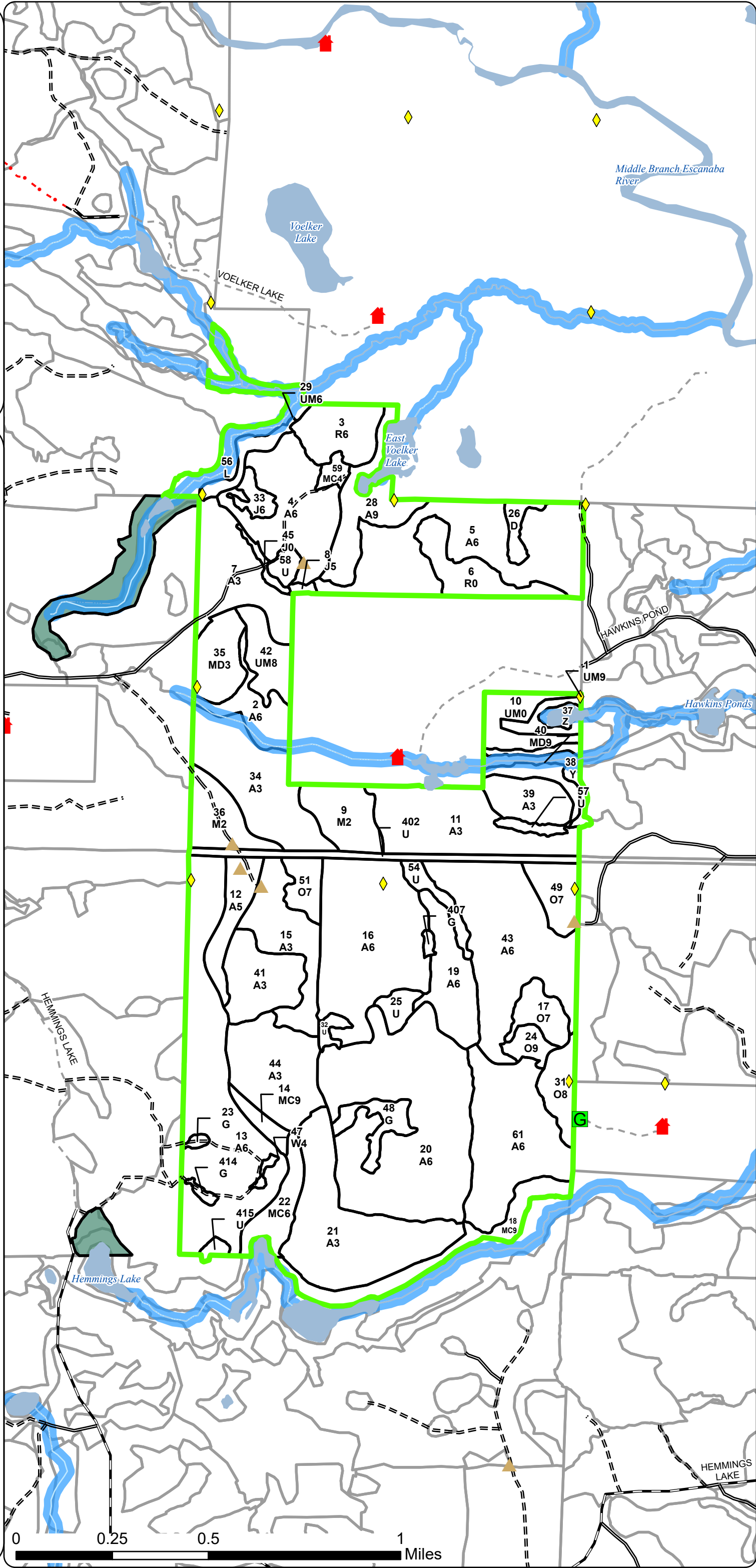


Special Conservation Areas
& Site Conditions Map

Compartment: 32250
T46N R27W Sections 22, 27 & 34
County: Marquette
Unit: Gwinn
Mgmt. Area: Suomi Till and Outwash Plain
YOE: 2027
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- Survey Grade Corners
- Cabin
- Berms
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- DNR - Primary Forest Road
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



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	0	50	291	336	0	134	0	23	0	0	0	0	0	0	0	0	0	834
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Jack Pine	2	0	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	0	8
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	16	0	0	0	9	0	0	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	3	0	0	0	0	0	0	22	0	0	0	0	0	0	25
Northern Hardwood	0	17	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Oak	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	12	48
Red Pine	18	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	0	0	0	14	0	5	0	0	0	0	0	0	19
Upland Mixed Forest	14	0	0	0	0	0	0	14	6	7	0	0	0	0	0	0	0	0	41
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	116	17	68	327	344	0	134	23	29	22	36	27	0	0	0	0	0	12	1155



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 250
Total Compartment Acres: 1,156

Commercial Harvest - 1036
Harvests with Site Condition - 0
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	134	0	0	0	0	0	0	0	0	134
Red Pine	0	0	0	0	19	0	0	0	0	19
Upland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Total	148	0	0	0	19	0	0	0	0	167

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	167	0	2	0	15	38	0	0	0	221
Next Step	0	36	297	0	336	334	0	0	0	1003
Total	167	36	299	0	351	372	0	0	0	1224



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
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Proposed Treatments:

2	32250002-Cut	14.7	4130 - Aspen	6	55	1-50	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention. Leave all red and white pine and mark some oak to leave in areas where oak is dense. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, oak, jack pine, white pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
3	32250003-Cut	19.1	42110 - Planted Red Pine	6	24	1-50	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Mark to cut every third row while making sure that the stand is operable for equipment. <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> 10/01/2026											
12	32250012-Cut	14.2	4130 - Aspen	5	52	Unspeci fied	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut to 2" spec. Retain all oak and white pine. capture in the retention pocket if possible. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> SE end has most the pine. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
20	32250020-Cut	104.8	4130 - Aspen	6	50	Unspeci fied	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut to 2" spec. Leave retention where the pine and oak concentration is heaviest. <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen <u>Treatments:</u> (3yr); Planting, Interplant <u>Acceptable</u> planted red pine <u>Regen:</u> <u>Other</u> most pine is in the eastern or southern end. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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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
42 32250042-Cut	13.8	4319 - Mixed Upland Forest	8	60	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut with retention. Leave a small retention patch on the south end along the aspen stand. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> planted red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Approved Treatments:

6 32250006-Plant	2.0	42110 - Planted Red Pine	0	1	Immature	Planting	Planting (tree species)	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Plant at 680 TPA <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen; Planting, Interplant; Monitoring, Artificial Regen (3yr) <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> 10/01/2025										
6 32250006-Spray	14.9	42110 - Planted Red Pine	0	1	Immature	Pesticide	Pesticide	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Skidder - Release; Planting, Replant; Monitoring, Artificial Regen (3yr) <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> 10/01/2026										

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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
10 32250010-Monitor	13.0	4319 - Mixed Upland Forest	0	4	Immature	Monitoring	Monitoring - Regeneration	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> check to see if it needs scarification <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; ; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Pine, oak, aspen, fir, spruce, maple and birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2020										
17 32250017-Monitor	10.0	4123 - Red Oak	7	90	1-50	Monitoring	Monitoring - Regeneration	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> check to see if it needs scarification <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> Maple, oak, aspen, pine and birch <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2020										
45 32250045-Monitor	2.1	4222 - Natural Jack Pine	0	1		Monitoring	Monitoring - Regeneration	4222 - Natural Jack Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> pine, oak, maple, aspen. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024										
49 32250049-Monitor	8.3	4123 - Red Oak	7	90	1-50	Monitoring	Monitoring - Regeneration	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> check to see if it needs scarification <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> Maple, oak, pine, aspen and birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2020										

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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
51	32250051-Monitor	4.5	4123 - Red Oak	7	90	1-50	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Cutting Record	No
<u>Prescription</u> Monitor to see if the stand has successfully regenerated. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; ; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> oak, maple, pine, aspen and birch. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2020											

Total Treatment 221.4
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 250
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

3D	3J	5E
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834	811	0	23	Aspen		23	
13	13	0	0	Herbaceous Openland			
8	7	0	1	Jack Pine			1
35	35	0	0	Low-Density Trees			
19	19	0	0	Lowland Shrub			
25	16	0	9	Mixed Upland Deciduous		9	
25	3	0	22	Natural Mixed Pines		22	
35	35	0	0	Northern Hardwood			
48	48	0	0	Oak			
20	19	0	1	Red Pine			1
1	0	0	1	Sand, Soil		1	
5	5	0	0	Treed Bog			
19	0	0	19	Upland Conifers	5	14	
40	28	0	12	Upland Mixed Forest		12	
3	3	0	0	Water			
1	1	0	0	White Pine			
1,131	1,045		86	Total Forested Acres	5	79	2
	92%		8%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand acts as a buffer along East Voelker Lake and also a small wetland that heads south of the lake.								
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand acts as a buffer along drainage.								

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 250
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3	Unavailable	3D: Recreational/scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand of white and red pine of large diameter. A great stand of biodiversity amongst a sea of young aspen.							
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along lake and drainage that heads west of lake.							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: A buffer along a nearby drainage and also a stand of large diameter red and white pine.							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Stand acts as a buffer for nearby stream and riparian area.							

Gwinn Mgt. Unit
Kyle Gould: Examiner

Report 4 – Site Conditions

Compartment: 250
Year of Entry: 2027



40	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
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Comments:

Buffer along drainage.

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
Comments				





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
13	4130 - Aspen	Poletimber Well	86.2	35	1-50	N/A	2025 - Stand is healthy and good quality aspen. There is heavier oak in the north end of the stand. Sale was cut in '90. T-sale #025-87-1. All oak were left. Stand consists of nice aspen with scattered log sized oak throughout.																																																					
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14	429 - Mixed Upland Conifers	Sawtimber Well	5.1	108	111-140	N/A	Nice stand of white pine with a few red pine mixed in. Stand is a small valley and makes for a unique area given the young aspen all around it. There is a small strip of wet soils in the middle of the stand. There is a small stream that starts in the stand to the south. Do not manage.																																																					
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15	4130 - Aspen	Sapling Well	27.4	13	1-50	N/A	2025 - stand of small, pole-sized trees. All look healthy. There is a fairly heavy overstory of oak and pine left from the last cut. Stand was harvested in 2012: TS#114-07-01. Regeneration has flushed back and looks good. Scattered mature oak, red and white pine left throughout the stand.																																																					
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16	4130 - Aspen	Poletimber Well	67.8	36	51-80	N/A	2025 - stand of nice quality, pole sized aspen. Part of the oak was cut last time. That oak has sprouted back fairly well and is competing with the aspen. This is a better quality site than most the aspen in the area. OPIC - FMD: Was commercially cut in 1988-89 by Minerick Logging, Inc, permit #24-87, "Plevna Block". Approx 4 oak per acre were left (marked with green paint). Access was from the northwest side of the sale.																																																					
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17	4123 - Red Oak	Sawtimber Poor	10.3	90	1-50	N/A	2025 - the oak has sprouted back well. The stump sprouts look very good and there is also some oak from seed. There is moderate red maple regen as well as a little white pine. monitor the stand and consider releasing if the oak grows well. Stand was harvested in the summer of 2020. Dandy DHK: 108-17. 30-40 Square feet of residual oak was left within the stand to promote more oak regeneration via. stump sprouts and seed origin oak. A tracked processor was used to harvest the sale which provided additional scarification. 2020 was a great year for acorns as well so hopefully we will see more oak regeneration in this stand.																																																					
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18	42290 - Natural Mixed Pine	Sawtimber Well	21.6	108	81-110	N/A	Nice stand of mature white pine and red pine with scattered deciduous. Stand acts as a buffer along the stream edge. White pine and red pine are very good quality and large diameter.																																																							
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19	4130 - Aspen	Poletimber Well	23.0	37	1-50	N/A	Stand was cut in 1989. TS #24-87. Stand contains poor quality aspen due to poor soil quality. Stand is currently too young to manage. A couple of the small openings that exist within the stand are filling in with red pine.																																																							
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20	4130 - Aspen	Poletimber Well	104.8	50	Unspecified	N/A	2025 - Poor to medium quality aspen stand. A good portion of the trees are showing some sign of decline. The aspen looks to be a bit off site. This may be a good stand to convert to a pine cover type with the abundance of aspen in the area. 2015 - This stand was treated noncommercially in 1975 by Wildlife Division with KG treecutter - roller chopper, FTP #W3-517. Some areas of the stand show signs of decline while other areas look good. Due to small diameter and 40 year old trees, hold the stand for 10 years. Check in the next YOЕ for possible harvest.																																																							
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21	4130 - Aspen	Sapling Well	58.2	28	Immature	N/A	2025 - stand of sapling sized aspen with a light to moderate stocking of red and white pine, heavier in the east end of the stand. Harvested in 1999. TS# 7-97-01. A nice stand of aspen regeneration exists. Scattered mature red oak was left in the stand.																																																							
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22	429 - Mixed Upland Conifers	Poletimber Well	13.5	87	51-80	N/A	Stand consists of a steep valley that slopes down to tag alder and a small stream in the middle. The ridge contains upland species such as aspen and pine. Do not manage, keep as a riparian area. This stand is essentially the headwaters of a small stream.																																																							
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
23	310 - Herbaceous Openland	None	1.1		Unspecified	No	Small opening mostly free of trees.				
24	4123 - Red Oak	Sawtimber Well	5.8	90	1-50	N/A	This was part of stand 17 but was not treated in 2020 with the rest. This is essentially a bowl with fairly steep slopes down to a small wetland. It is not too steep to harvest but likely best left to protect the slopes and wetland.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10		9		Bigtooth Aspen		Low	Variable	Variable	
Red Oak		90		14	90	White Pine		Low	Variable	Variable	
						Red Maple		Medium	Variable	Variable	
						Red Oak		Low	Variable	Variable	
25	330 - Low-Density Trees	None	5.2			No	Opening is about half filled in with aspen. There are some large overstory oak and pine as well.				
26	6224 - Treed Bog	None	4.9			No	Treed bog. South end has seen lots of beaver activity in the past. Most trees in the bog are dead from high water.				
28	4133 - Aspen, Mixed Pine	Sawtimber Well	23.4	76	51-80	N/A	2025 - aspen in the stand is large and falling apart. The pine is doing well. The eastern part of the stand is heavier to pine and smaller diameter than the rest. OI comments state: This stand was left in 1988 to act as a visual buffer when both stands 4 & 5 were cut, but also because it protects a drainage or seepage of water flowing northward into East Voelker Lake. The central core of this stand is lowland brush. The north part of this stand consists of some large diameter red pine and white pine. Do not manage, maintain as a wildlife corridor.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Seedling	9		Red Maple		Medium	Variable	Variable	
Jack Pine		11		12		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Red Pine		7		18		Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet	
White Pine		7		18		White Pine		Medium	Variable	Variable	
Paper Birch		10		10							
Bigtooth Aspen		20		14							
Quaking Aspen		25		14	76						
29	4311 - Pine, Aspen Mix	Poletimber Well	6.7	87	51-80	N/A	2025 - agree with previous comments. The stand is old but with the steep ridge and wetland it should not be managed. Buffer strip along a flowage. Stand consists of a steep ridge down to the wetland edge. Jack pine and paper birch are in very poor condition. Paper birch contains dead and dying tops and is falling out of the stand. I notice a few oak seedlings but they are browsed quite heavily. Do not manage.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Seedling	9		Hazelnut (Spp.)		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		30		9		Red Oak		Low	Variable	Variable	
Red Maple		10	Seedling	8		Black Spruce		Low	Variable	Variable	
Jack Pine		50		11	87	Red Maple		Medium	>20 feet	>20 feet	
						White Pine		Low	Variable	Variable	
31	4123 - Red Oak	Sawtimber Medium	11.4	93	51-80	N/A	2025 - The overstory trees are mature and ready to harvest. The advanced regeneration is about half oak and would make a good oak mix stand if the overstory was removed and some more sprouting would likely take off. Stark contrast in looking at this stand in which previous management has cut some oak versus the other stands within this compartment in which no oak was cut. This stand has a decent amount of oak regeneration, mostly in the form of stump sprouts. A more open canopy has also led to better regeneration of other species such as pine and red maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		90		15	93	White Pine		Low	10 - 20 feet	10 - 20 feet	
White Pine		10		10		Bigtooth Aspen		Low	10 - 20 feet	10 - 20 feet	
						Red Pine		Low	10 - 20 feet	10 - 20 feet	
						Red Maple		Medium	Variable	Variable	
						Hazelnut (Spp.)		Low	5 - 10 feet	5 - 10 feet	
						Red Oak		Medium	Variable	Variable	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
32	330 - Low-Density Trees	None	2.8			No	Q few open grown pine but otherwise clear opening.																																																	
33	42220 - Natural Jack Pine	Poletimber Well	5.1	37	1-50	N/A	2025 - Good quality stand of jack pine. The stand did take some snow and ice damage in the last few years. Overall the stand looks healthy. There is some aspen mixed in and a few large oak.Stand was cut in 1988. Permit #22-87.																																																	
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34	4131 - Aspen, Oak	Sapling Well	41.5	27	Immature	N/A	2025 - stand of moderate density aspen with red maple. The overstory was left a bit dense with oak and that is hindering the aspen in areas. Those places have filled in with red maple. Stand was cut in 1998. TS #14-98. Stand of young aspen with scattered mature oak throughout. Some of the oak is showing signs of decline.																																																	
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35	4199 - Other Mixed Upland Deciduous	Sapling Well	16.4	26	Immature	N/A	Former cut. Scattered oak left throughout the stand. Regen looks healthy and is heavy to red maple probably due to the heavier overstory left on the stand.																																																	
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36	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	17.2	4	Immature	N/A	2025 - stand is regenerating to moderately dense red maple and aspen. The conifers should continue to fill in. There is a significant amount of overstory pine in areas and the regeneration is less in those areas. Stand was harvested in the summer of 2020. Dandy DHK 108-17. Stand contains scattered mature pine and oak. Stand should regenerate back to a mix of both conifer and deciduous species.																																																	
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37	500 - Water	None	3.2		Unspecified	No	2025 - springs flow in from the west end of the lake out of stand 1. There was a little open water even during the very cold conditions at the time of the site visit. OPIC - FMD: Locally known as "Kirkasjarvi" in the Finnish language which translates as "Clear Lake". Pond is spring fed and very clear water. Brook trout were present at one time.																																																	
38	730 - Mud Flats	None	7.2			No	2025 - beaver dam is still mostly intact. The water is flowing through and the flooding is drained down currently. OI Notes: Alder creek bottom which is periodically flooded by beaver. Currently it is mostly flooded and thus typed "Z".																																																	



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
57	330 - Low-Density Trees	None	3.1			No	Former landing that was previously managed by wildlife but is now filling in with red pine. Most the trees are small pole sized and open grown.			
				Sub-Canopy Species		Density	Avg. Height	Size		
				Red Pine		Medium	>20 feet	>20 feet		
58	330 - Low-Density Trees	None	3.8			No	Stand is non-forested but is filling in around the edges with red maple and jack pine. Ground vegetation is sweet fern.			
59	42290 - Natural Mixed Pine	Poletimber Poor	3.4	35	1-50	N/A	This is an old opening that filled in with trees. It now meets the canopy closure needed to be a forested stand.			
		Canopy Species	% Cover	Size Class	DBH	Age				
		Red Pine	50	Seedling	7	35				
		Jack Pine	35	Seedling	7	35				
		White Pine	15	Seedling	7					
61	4130 - Aspen	Poletimber Well	52.7	33	51-80	N/A	2025 - nice quality aspen stand. Rocky stand with some fairly steep ridges. Aspen are small to medium sized poles. Very little oak and pine within the stand compared to the rest of the aspen in the area. Stand was harvested in 1992. TS# 29-89.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Bigtooth Aspen	70	Seedling	7	33	White Pine	Low	Variable	Variable
		Quaking Aspen	25	Seedling	6		Red Maple	Medium	Variable	Variable
		White Pine	5		10		Red Pine	Low	Variable	Variable
402	3303 - Mixed Low Density Trees	None	11.8			No	2025 - Opening cut for the elf line. Over time the area has been filling in with trees in patched. A few areas are stocked with aspen but a lot is still very open. ELF (Naval submarine communications system) cleared right of way, approx 100 feet wide. This was established circa 1985 and abandoned in 2005.			
407	3102 - Grass	None	1.1			No	2025 - this opening has stayed very clear of trees since cleared by wildlife division. OI Notes: Created by Wildlife Div. in 1991 after commercial sale #24-87. FTP W31-222, rock rake, disk, seed, & "Promone" herbicide.			
414	3102 - Grass	None	1.3			No	2025- still very open, a few conifer treesOI Notes: Created in 1992 by Wildlife Division. FTP #W31-235, trail systems & landings will be rock raked, then disked and seeded in August 1992.			
415	3303 - Mixed Low Density Trees	None	1.9			No	2025 - fairly open, patch of trees in the middle and scattered. OI Notes: Created in 1992 by Wildlife Division. FTP #W31-235, trail systems & landings will be rock raked, then disked and seeded in August 1992.			